

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

4103 - 4119 PORTAGE ROAD

PHASE ONE

INDEX OF SHEETS

SHEET NO.	TITLE
1	STANDARD NOTES & COMMENTS
D1	TYPICAL SECTIONS
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W3-W4	CROSS SECTIONS
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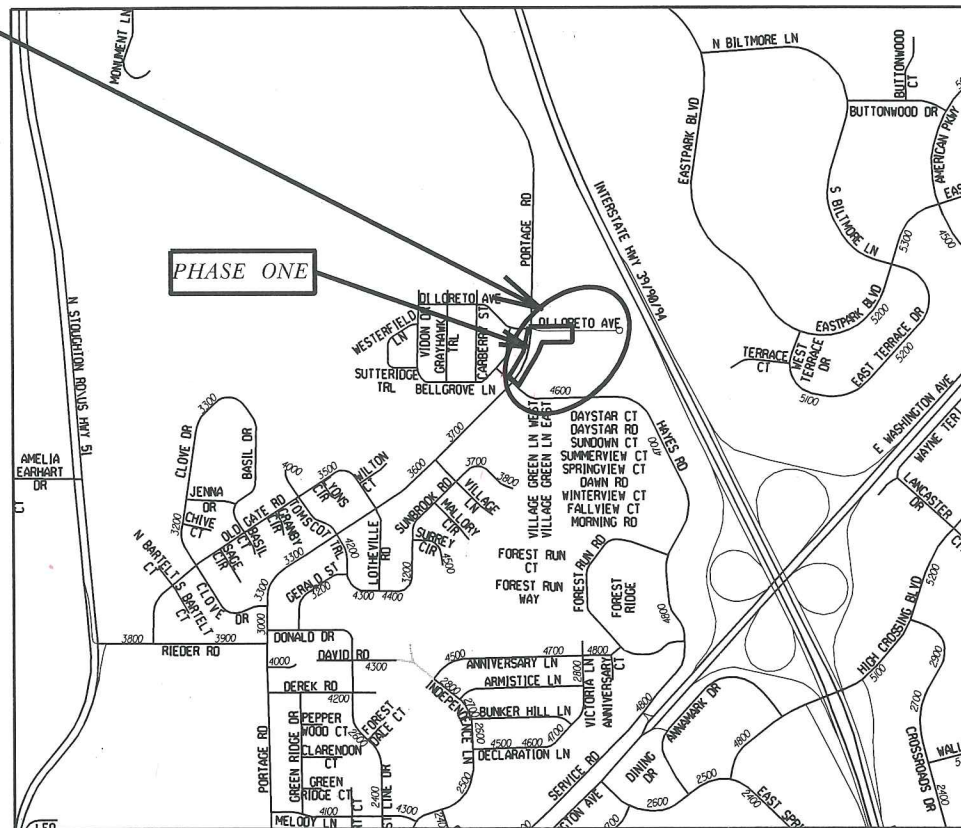
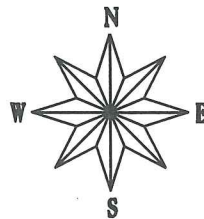
*- SHEET U-5A - PLANTING PLAN
ADDED 5/18/16 GEG*
*SHEET EC-1 - EROSION CONTROL
ADDED 5/18/16 GEG*

CITY PROJECT NO. 53B2433

MUNIS NO. 10887

CONTRACT NO. 2433

PROJECT LOCATION



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 2.00%. SIDEWALK SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF 0.50% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00%

PUBLIC IMPROVEMENT PROJECT APPROVED

JULY 7, 2015

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

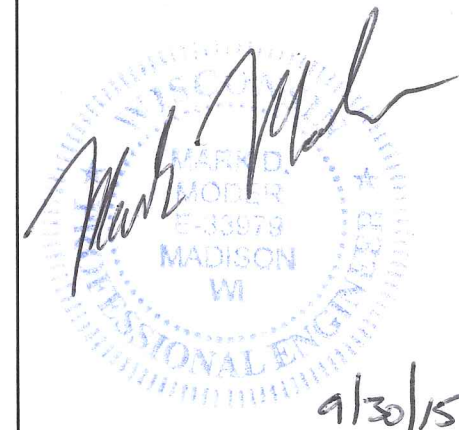
PUBLIC IMPROVEMENT DESIGN APPROVED BY:

[Signature] 10/19/15
City Engineer Date

STREET DESIGNED BY:



SANITARY SEWER DESIGNED BY:



WATER MAIN DESIGNED BY:



STORM SEWER DESIGNED BY:



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

DETAILS

STANDARD NOTES
AND COMMENTS

CITY OF MADISON

ALL ASPHALT PAVEMENT ON PORTAGE ROAD SHALL BE TYPE "C" ASPHALT PAVEMENT PER S.D.D. 4.06. ASPHALT PAVEMENT ON DILORETO AVENUE SHALL BE TYPE "B" PAVEMENT PER S.D.D. 4.06.

ALL ISLANDS SHALL HAVE TYPE "H" CURB & GUTTER PER S.D.D. 3.08 UNLESS NOTED OTHERWISE IN THE PLAN. ALL ISLANDS SHALL HAVE MOUNTABLE NOSES PER S.D.D. 3.13. ALL OTHER CURB & GUTTER SHALL BE TYPE "A" PER S.D.D. 3.06.

ISLAND INTERIORS SHALL BE OF SOD WHERE THE BACK TO BACK OF CURB DIMENSION IS GREATER THAN 6'.

ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADES OF 0.5% TOWARD STORM SEWER INLETS.

PAVEMENT CROSS SLOPES SHALL BE 2%, TERRACES SHALL SLOPE AT A 4% GRADE TOWARD THE GUTTER, SHOULDERS SHALL HAVE A 4% CROSS SLOPE AND CROSS SLOPES FORMING DITCHES SHALL NOT EXCEED 4.00:1 UNLESS OTHERWISE INDICATED.

THE CROSS SLOPE OF SIDEWALKS AND BARRIER FREE SIDEWALK CURB RAMPS SHALL BE 1.5%. THE LONGITUDINAL GRADE OF BARRIER FREE SIDEWALK CURB RAMPS SHALL NOT EXCEED 8.33%. ALL SIDEWALK RAMPS SHALL BE CONSTRUCTED ACCORDING TO S.D.D. 3.03. AT ALL OTHER LOCATIONS THE LONGITUDINAL GRADE OF SIDEWALKS SHALL NOT EXCEED 5.0 % OR THE ADJACENT STREET GRADE WHICHEVER IS GREATER NOR BE LESS THAN 0.5% AND SHALL DRAIN TOWARD STORM SEWER INLETS. CONCRETE TERRACE SHALL BE INSTALLED BETWEEN THE SIDEWALK AND THE BACK OF CURB AT SIDEWALK LOW POINTS WHICH CANNOT OTHERWISE BE DRAINED DIRECTLY TO THE GUTTER. SIDE SLOPES WITHIN TEN FEET OF A PUBLIC SIDEWALK SHALL NOT EXCEED 4.00:1. ALL SIDEWALK AND SIDEWALK RAMP ELEVATIONS AND GRADES SHALL BE FIELD VERIFIED AND SET TO COMPLY WITH THE CITY OF MADISON STANDARD SPECIFICATIONS AND THE A.D.A. GUIDELINES.

OBTAIN A PRINT OUT OF THE ALIGNMENT FROM THE CITY ENGINEER PRIOR TO STAKING THIS PROJECT.

CURB STATION AND OFFSETS SHALL BE TO THE FACE OF CURB UNLESS OTHERWISE INDICATED. CURB ELEVATIONS SHALL BE TO THE TOP OF CURB (OR EXTENDED TOP OF CURB FOR DRIVEWAYS OR RAMPS) UNLESS OTHERWISE INDICATED.

POWER POLES AND OTHER OBSTRUCTIONS SHALL BE MOVED TO PROVIDE 2 FEET MINIMUM OF CLEAR DISTANCE FROM ANY FACE OF CURB OR EDGE OF SIDEWALK.

ANY INFORMATION SHOWN ON THIS PLAN, WHICH IS NOT PART OF THIS PROJECT, IS PRELIMINARY AND NOT FOR CONSTRUCTION.

THERE MAY BE EXISTING UTILITIES OR OTHER FEATURES WHICH ARE EITHER NOT SHOWN OR SHOWN INCORRECTLY ON THIS PLAN. IT IS THE RESPONSIBILITY OF THE DEVELOPER TO LOCATE AND IDENTIFY ALL UTILITIES AND TOPOGRAPHY WHICH MAY AFFECT THE CONSTRUCTION OF THESE IMPROVEMENTS.

ALL PERMANENT SIGNING AND POSTING WILL BE DETERMINED AND PROVIDED BY THE TRAFFIC ENGINEERING DIVISION, FOLLOWING CONSTRUCTION OF THESE IMPROVEMENTS.

THE DEVELOPER SHALL PROVIDE, INSTALL AND MAINTAIN ALL STREET END BARRICADES, SIGNING AND TRAFFIC CONTROL, AS REQUIRED BY THE CITY TRAFFIC ENGINEER.

PAVEMENT SAWCUTS SHALL BE AS DIRECTED BY THE CITY CONSTRUCTION ENGINEER. SAWCUTS SHOWN ON THE PLAN ARE APPROXIMATE.

CURB ON CUL DE SACS SHALL BE INSTALLED ACCORDING TO SDD 3.05.

THE LOCATION AND INFORMATION FOR PROPOSED NEW TREES, IN THE PUBLIC RIGHT OF WAY OR ON PUBLIC LANDS ARE APPROXIMATE AND ARE SHOWN FOR REFERENCE ONLY. THE LOCATIONS, SPECIFICATIONS AND PLANTING METHODS OF ALL PROPOSED NEW OR REPLACEMENT TREES IN THE PUBLIC RIGHT OF WAY OR ON PUBLIC LANDS SHALL BE APPROVED BY THE CITY FORESTER PRIOR TO INSTALLATION.

NO TREES IN THE RIGHT OF WAY OR ON PUBLIC LANDS SHALL BE TRIMMED, PRUNED, REMOVED OR ADVERSELY AFFECTED IN ANY WAY UNTIL THE DEVELOPER HAS RECEIVED WRITTEN PERMISSION FROM THE CITY ENGINEER OR CITY FORESTER. SAID WRITTEN PERMISSION SHALL INCLUDE LANGUAGE INDICATING THAT SECTION 10.101 OF THE MADISON GENERAL ORDINANCES AND ADMINISTRATIVE PROCEDURE MEMORANDUM NO. 6-2, REFERING TO NOTIFICATION OF PROPERTY OCCUPANTS AND/OR OWNERS, HAS BEEN COMPLIED WITH.

STREET TREES SHALL BE REPLACED AS SHOWN IN THE PLAN OR AS DIRECTED BY THE CITY FORESTER. COORDINATE STREET TREE PLANTING, LOCATIONS, QUANTITY, SPECIES AND SIZE WITH DEAN KAHL OF CITY FORESTRY, 266-4891.

THE DEVELOPER SHALL REPLACE ALL CURB & GUTTER AND SIDEWALK THAT IS DAMAGED BY CONSTRUCTION OR DETERMINED TO BE IN UNSATISFACTORY CONDITION.

THESE PLANS ARE FOR WORK WITHIN THE PUBLIC RIGHT-OF-WAY ONLY. INFORMATION SHOWN ON PRIVATE LANDS IS FOR REFERENCE ONLY.

ALL PAVEMENT SHALL BE PATCHED IN ACCORDANCE WITH CITY PAVEMENT PATCHING CRITERIA AND SHALL BE ACCOMPLISHED AS DIRECTED BY THE CITY CONSTRUCTION ENGINEER. ALL SAWCUTS FOR PAVEMENT PATCHES SHALL BE LOCATED AS DIRECTED BY THE CITY CONSTRUCTION ENGINEER.

ALL DISTURBED TERRACE AREAS SHALL BE RESTORED WITH 4-INCHES OF TOP SOIL AND SEED UNLESS DIRECTED OTHERWISE ON THE PLAN OR BY THE CITY CONSTRUCTION ENGINEER.

THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR REVIEW TO THE CITY TRAFFIC ENGINEERING DIVISION AT LEAST 10 WORKING DAYS PRIOR TO WORK BEGINNING WITHIN THE PORTAGE ROAD RIGHT OF WAY. THE TRAFFIC CONTROL PLAN SHALL COMPLY WITH ALL MUTCD REQUIREMENTS. WORK SHALL NOT PROCEED ON PORTAGE ROAD UNTIL THE TRAFFIC CONTROL PLAN HAS BEEN APPROVED. THE TRAFFIC CONTROL PLAN MAY INCLUDE BUT IS NOT LIMITED TO: LANE CLOSURE RESTRICTIONS, PEAK HOUR WORKING RESTRICTIONS, ACCESS REQUIREMENTS, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PHASING WORK AS NECESSARY TO MEET THE REQUIREMENTS OF THE APPROVED TRAFFIC CONTROL PLAN. CONTACT JEREMY NASH WITH THE CITY TRAFFIC ENGINEERING DIVISION AT (608) 266-6585 TO COORDINATE THE TRAFFIC CONTROL PLAN.

Pavement Patching Criteria

Criteria use on:

Streets with pavement rating > 6
Arterial Streets

1. Length of Patch

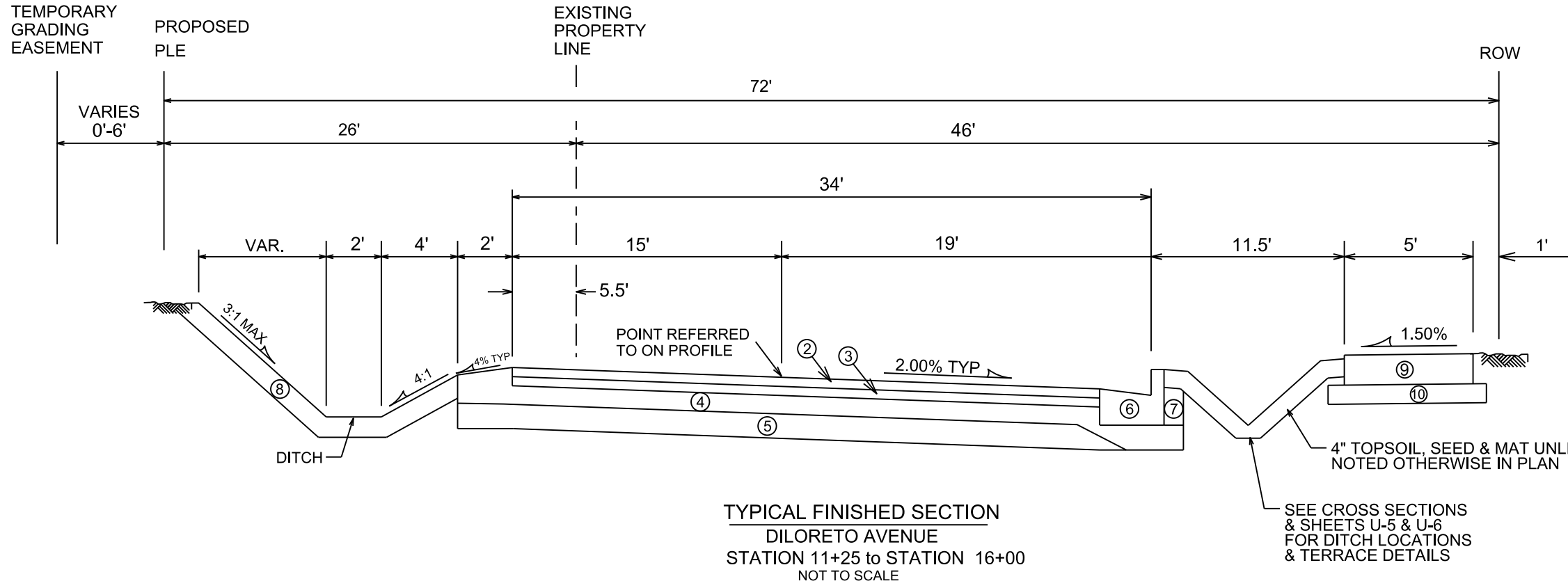
- a. Minimum 50 feet long
- b. Minimum of 15 feet beyond the excavation
- c. Where multiple patches are created and the separation between them is less than 100 feet, the patches shall be combined into a single patch.
- d. The patches shall be adjusted in the field to meet special conditions such as previous paving or patching limits.

2. Width of Patch (all dimensions are curb face to curb face)

- a. All Streets Except Divided or one way roadways
 - i. Street Width 0 to 24 feet wide - Patch entire street width
 - ii. Street Width 25 to 37 feet wide - Patch one half the street width (curb to centerline of roadway). Note - Utility Engineer may adjust paving limit to correspond with a painted centerline in situations where the painted centerline is not in the center of the street.
 - iii. Street Width 38 feet and up - Patch width of entire lane for each lane which was disturbed by the excavation.
 1. If the lane is adjacent to a bike lane, include the bike lane. (except when there is a parking lane between the bike lane and the curb)
 2. If the lane is a bike lane and adjacent to a parking lane, include the parking lane.
 3. If the lane is a bike lane and not adjacent to a parking lane, include the adjacent travel lane.
- b. Divided Roadways and One Way Streets
 - i. Street 0 to 19 feet wide - Patch entire street width
 - ii. Street Width 20 feet and up - Patch width of entire lane for each lane which was disturbed by the excavation.
 1. If the lane is adjacent to a bike lane, include the bike lane. (except when there is a parking lane between the bike lane and the curb)
 2. If the lane is a bike lane and adjacent to a parking lane, include the parking lane.
 3. If the lane is a bike lane and not adjacent to a parking lane, include the adjacent travel lane.

STREET RATINGS

STREET NAME	CLASSIFICATION	PAVEMENT RATING
PORTAGE ROAD	COLLECTOR	7
DILORETO AVENUE	LOCAL	NEW STREET

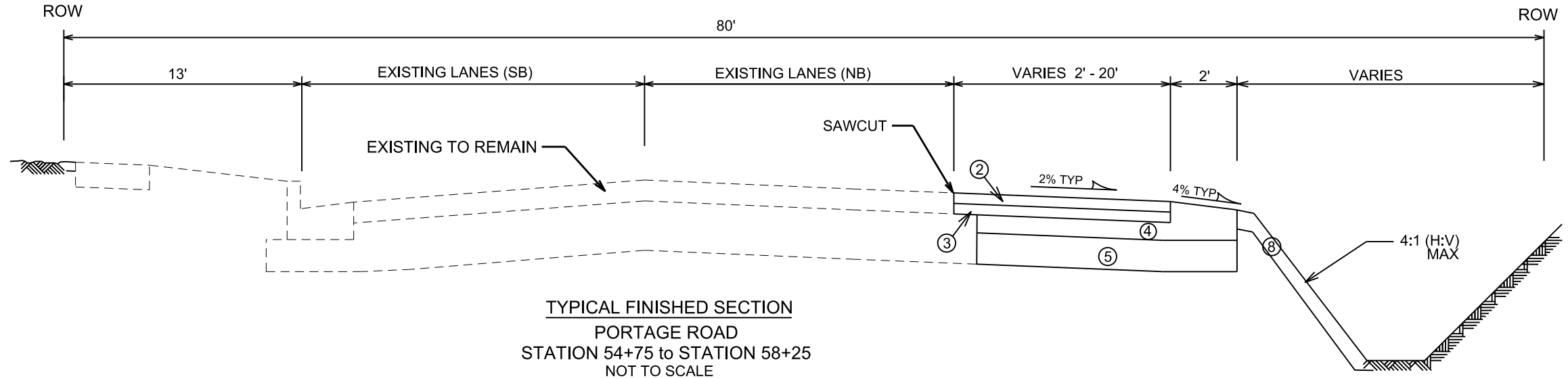


TYPICAL FINISHED SECTION
DILORETO AVENUE
STATION 11+25 to STATION 16+00
NOT TO SCALE

SEE CROSS SECTIONS
& SHEETS U-5 & U-6
FOR DITCH LOCATIONS
& TERRACE DETAILS

- ① POINT REFERRED TO ON PROFILE
- ② BITUMINOUS UPPER LAYER
- ③ BITUMINOUS LOWER LAYER
- 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
- ⑩ MIN. 2" SELECT FILL

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

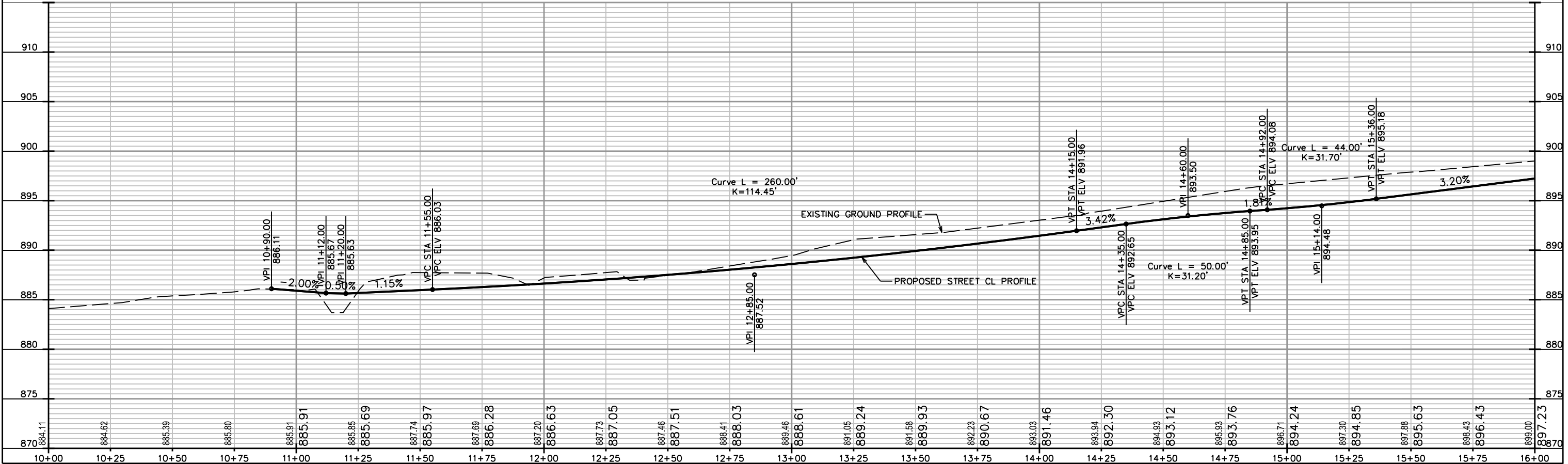
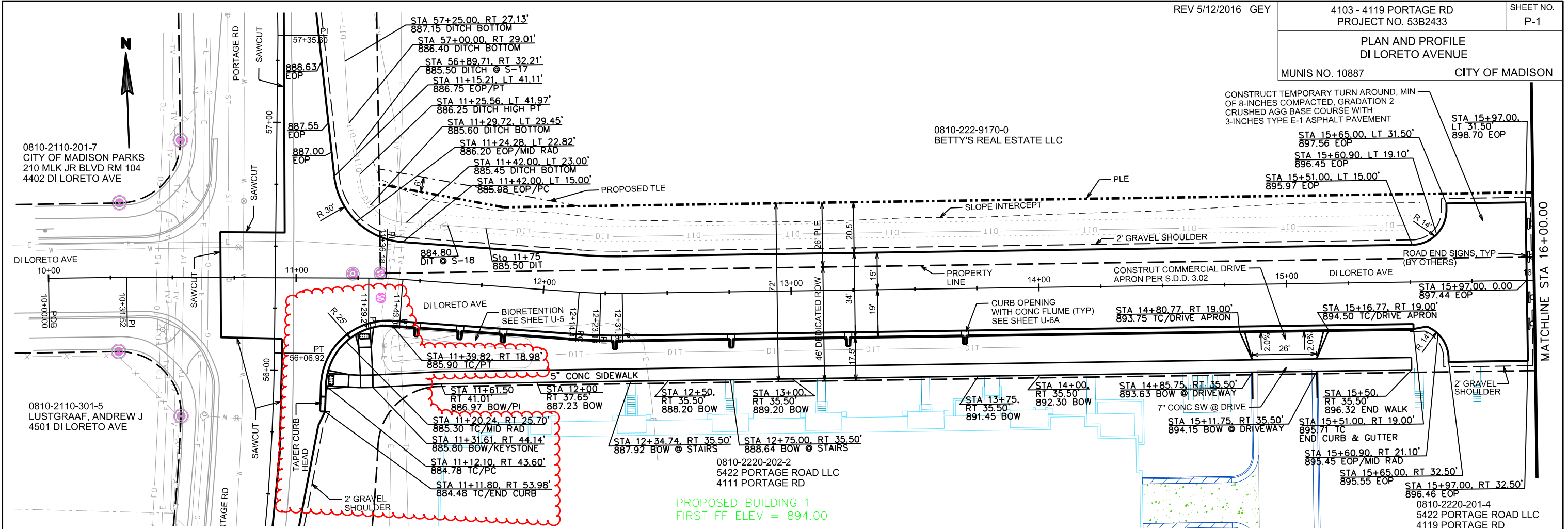


TYPICAL FINISHED SECTION
PORTAGE ROAD
STATION 54+75 to STATION 58+25
NOT TO SCALE

*CITY OF MADISON MINIMUM PAVEMENT DESIGN
1) ALL PAVEMENT ON DILORETO AVE SHALL BE TYPE 'B' PER STANDARD SPECIFICATIONS
2) ALL PAVEMENT ON PORTAGE RD SHALL BE TYPE 'C' PER STANDARD SPECIFICATIONS

TYPE	CRUSHED AGG. BASE COURSE		ASPHALTIC CONCRETE PAVEMENT			
	LOWER LAYER GRADATION 1	UPPER LAYER GRADATION 2	LOWER LAYER TYPE	THICKNESS	UPPER LAYER TYPE	THICKNESS
A	6"	4"	E-0.3	1.75"	E-0.3	1.75 "
B	6"	4"	E-1	2.50"	E-1	1.75 "
C	6"	4"	E-3	3.50"	E-3	1.75 "

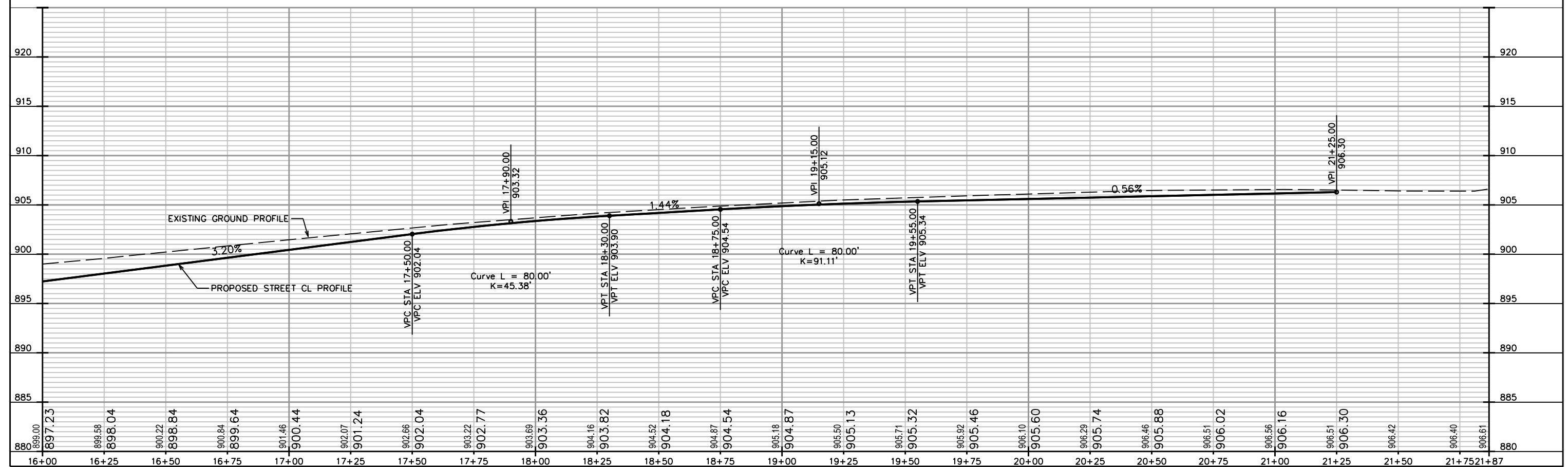
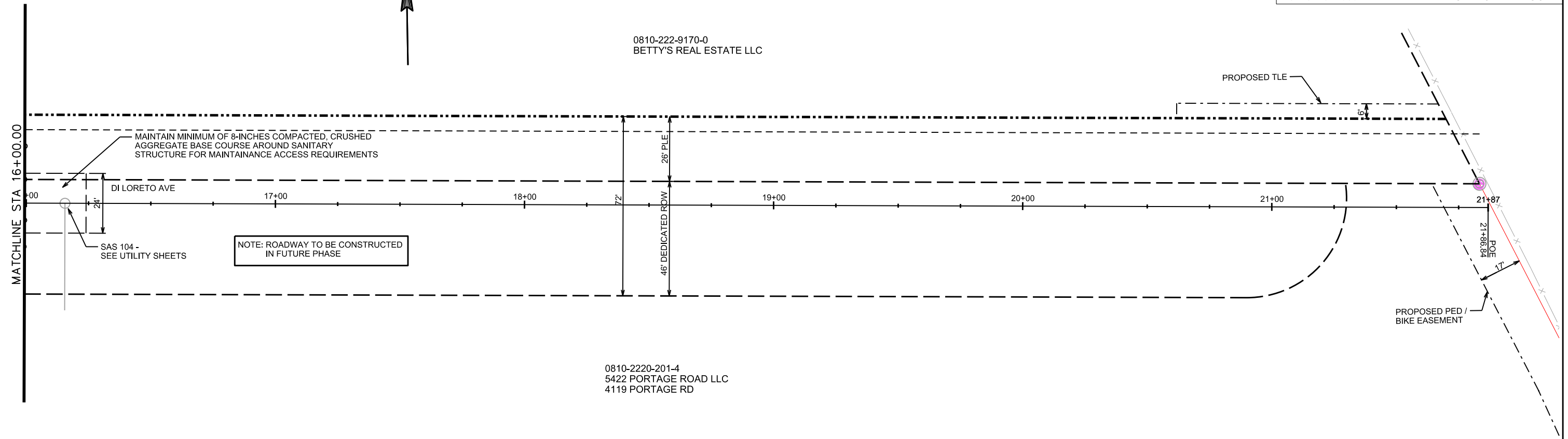
PLOT SCALE: _____
PLOT NAME: _____
REV. DATE: _____
ORIGINATOR: CITY OF MADISON - STREETS DIVISION





0810-222-9170-0
BETTY'S REAL ESTATE LLC

0810-2220-201-4
5422 PORTAGE ROAD LLC
4119 PORTAGE RD



PLOT SCALE: _____

PLOT NAME: _____

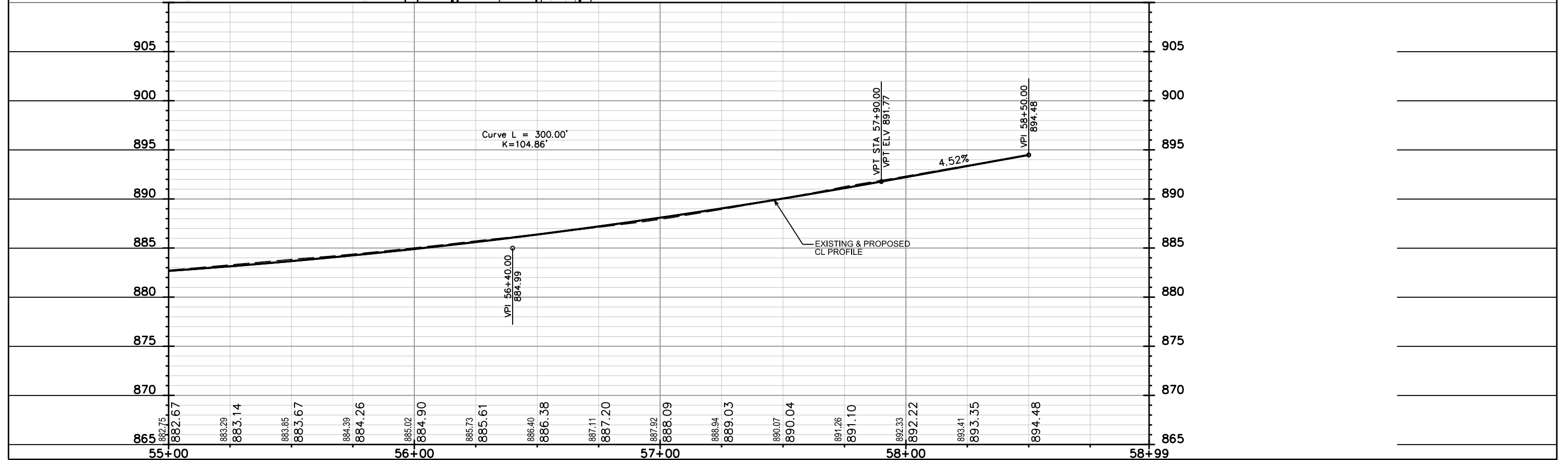
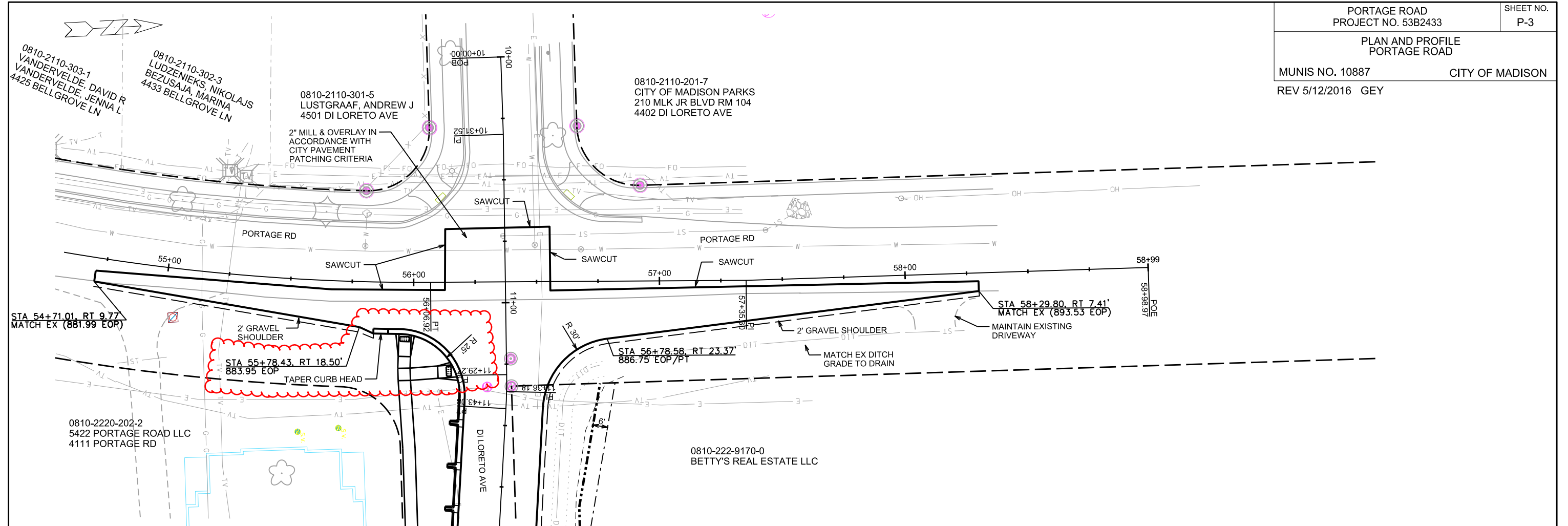
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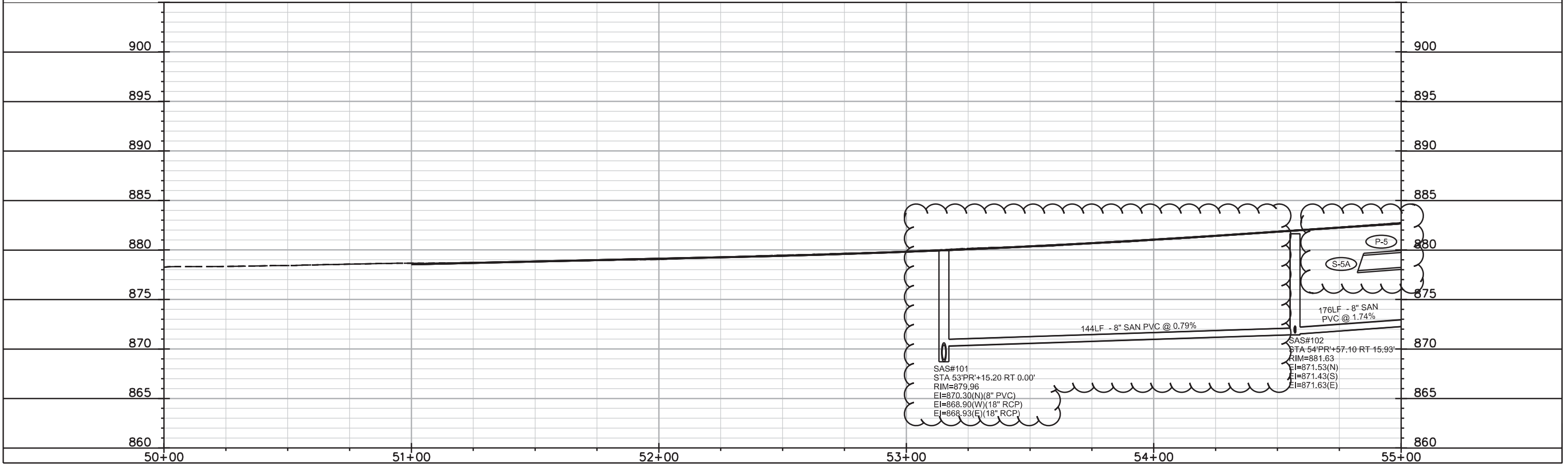
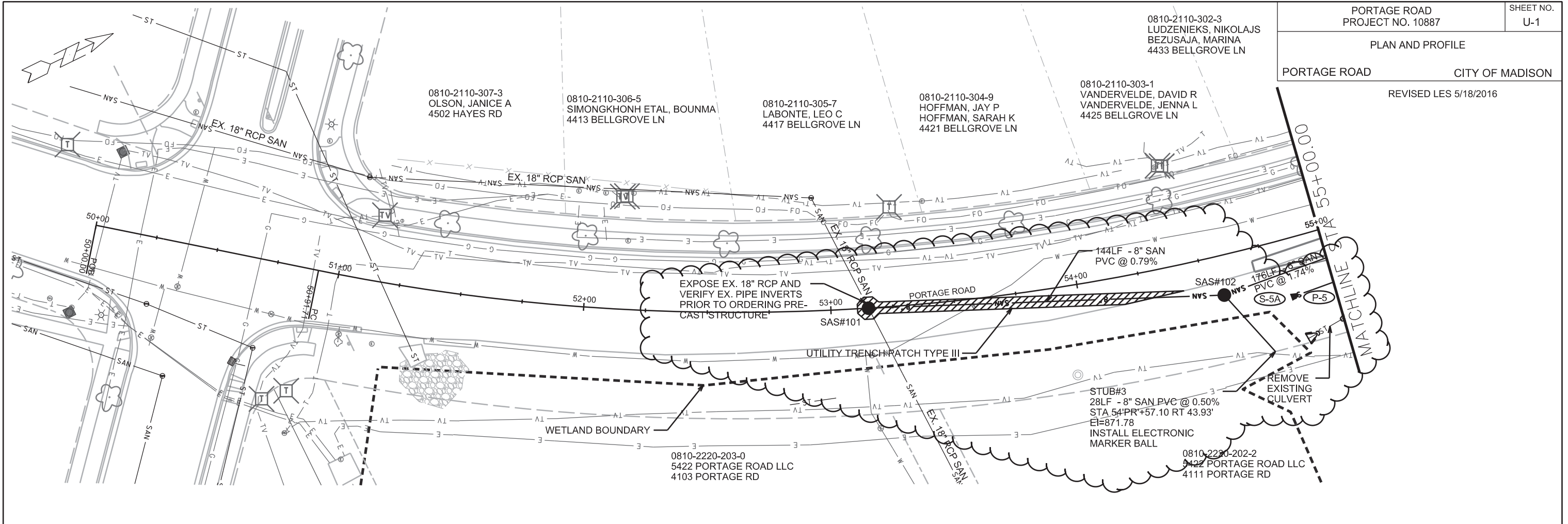
PLAN AND PROFILE
PORTAGE ROAD

MUNIS NO. 10887
REV 5/12/2016 GEY

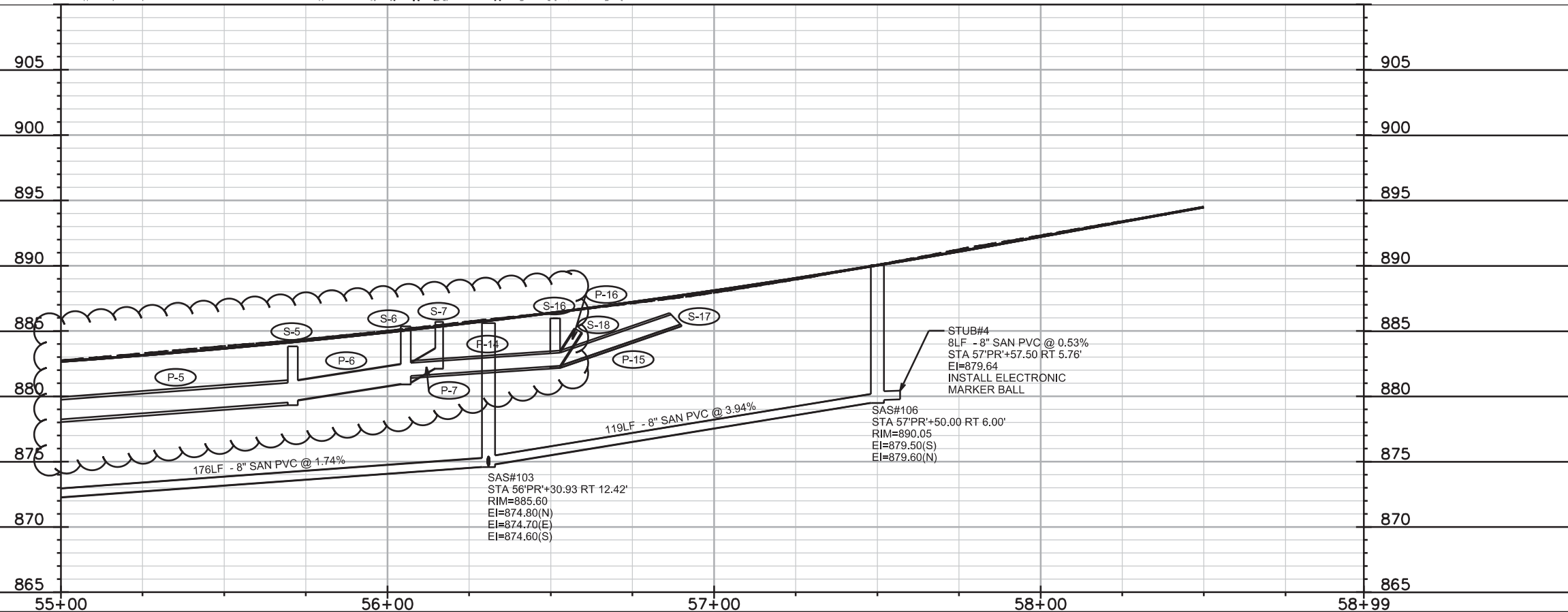
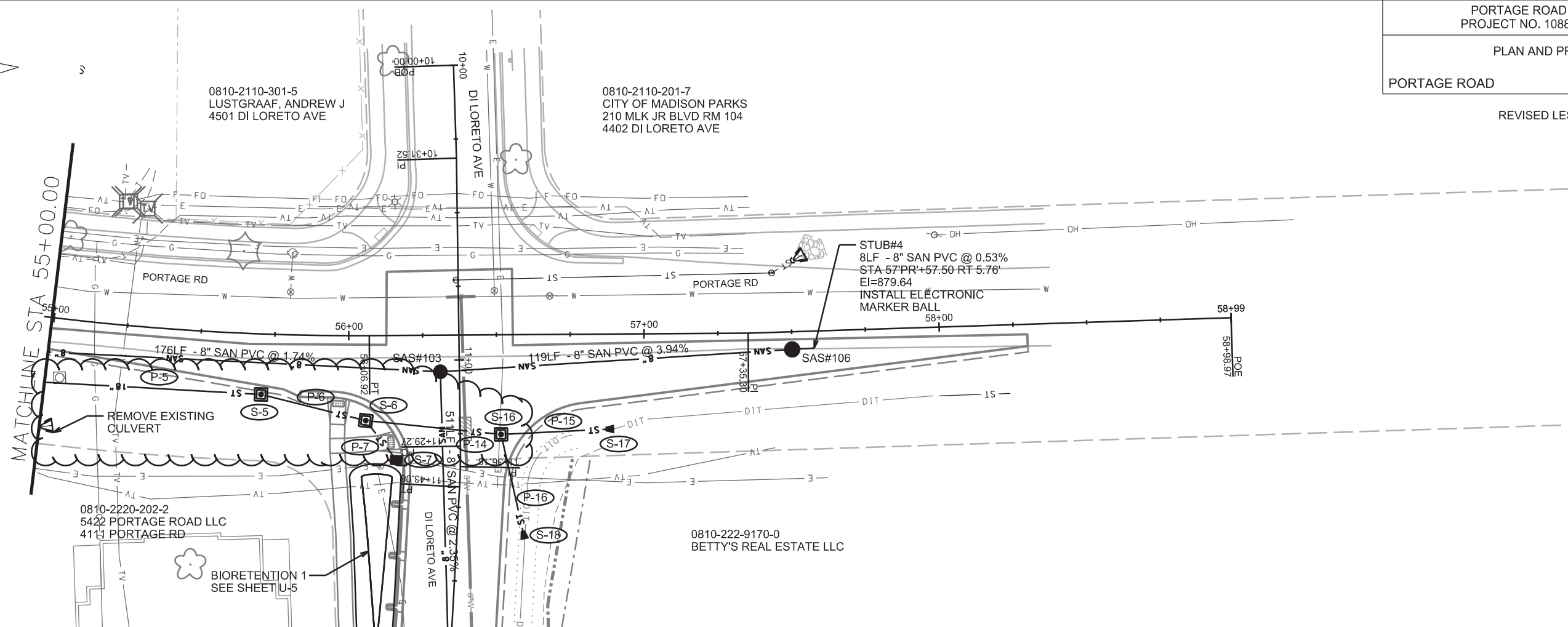
CITY OF MADISON



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



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 PLOT NAME: _____
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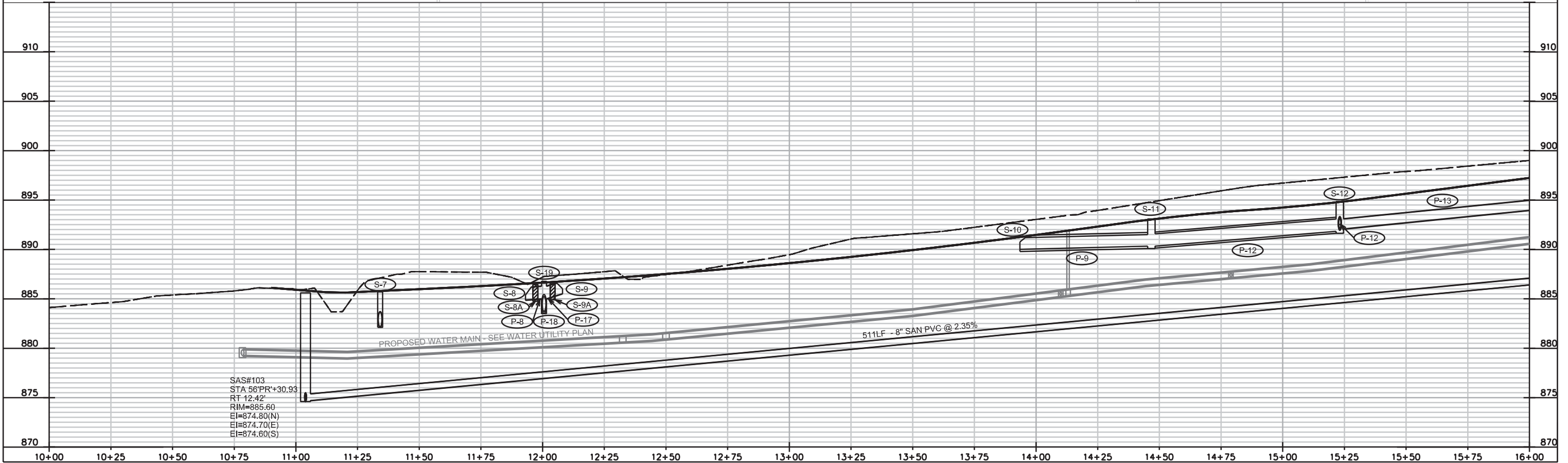
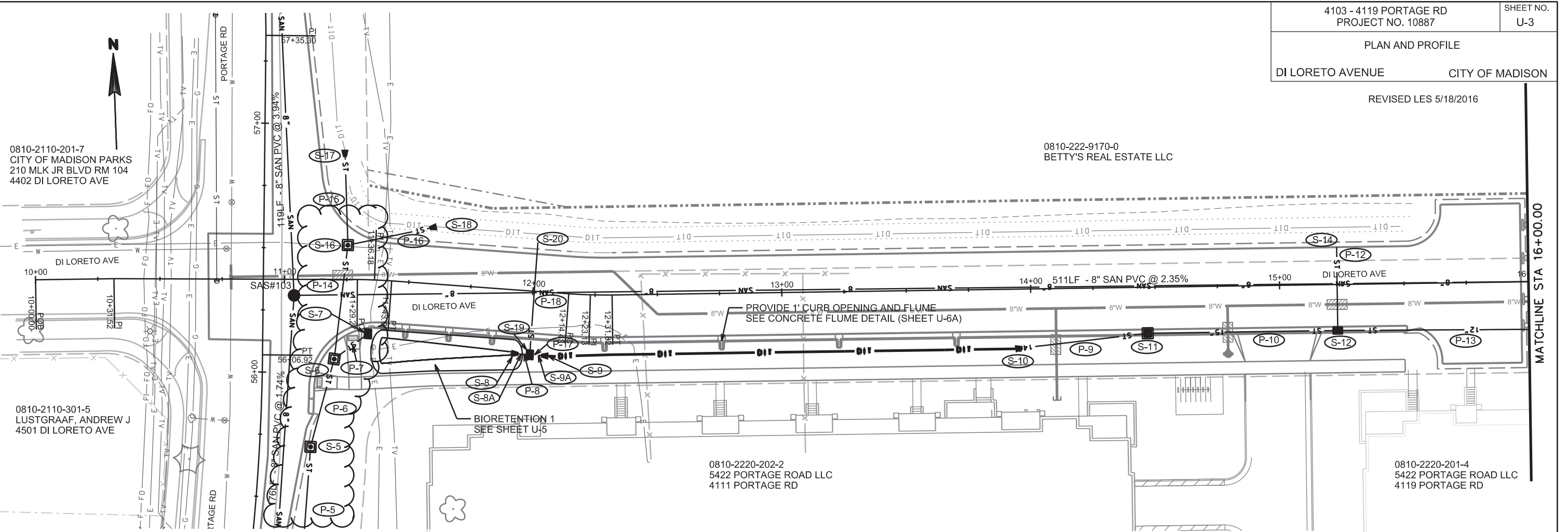


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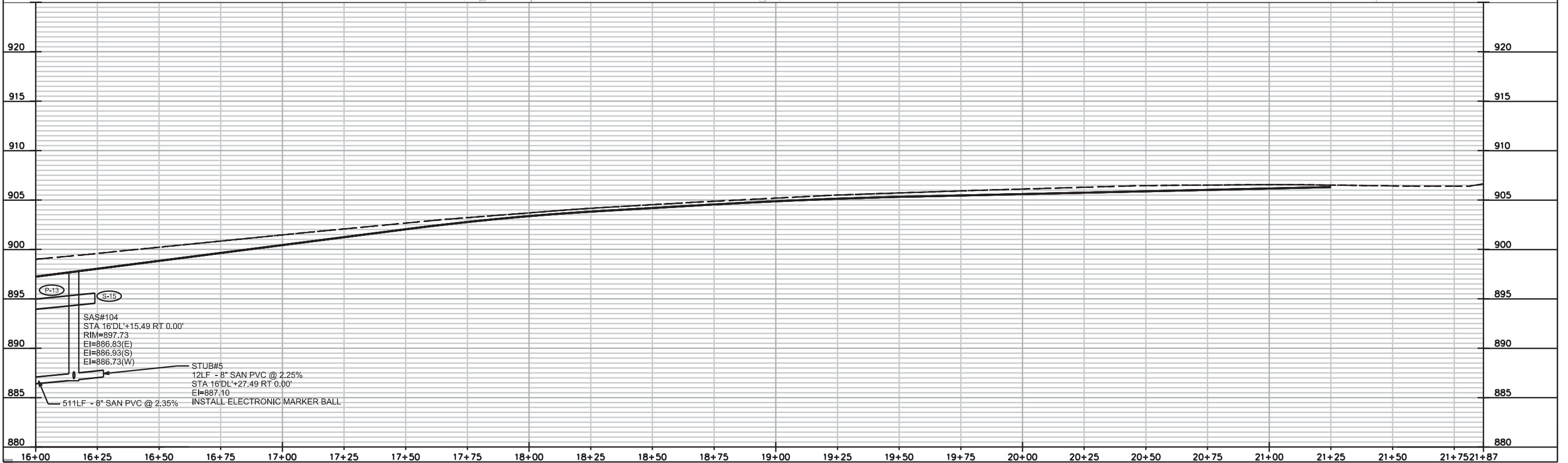
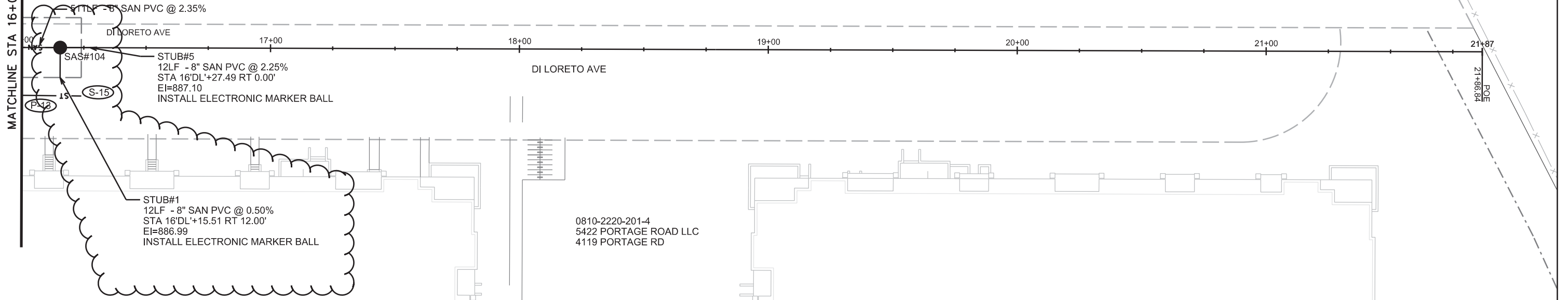
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

0810-222-9170-0
BETTY'S REAL ESTATE LLC

0810-2220-201-4
5422 PORTAGE ROAD LLC
4119 PORTAGE RD



MATCHLINE STA 16+00.00

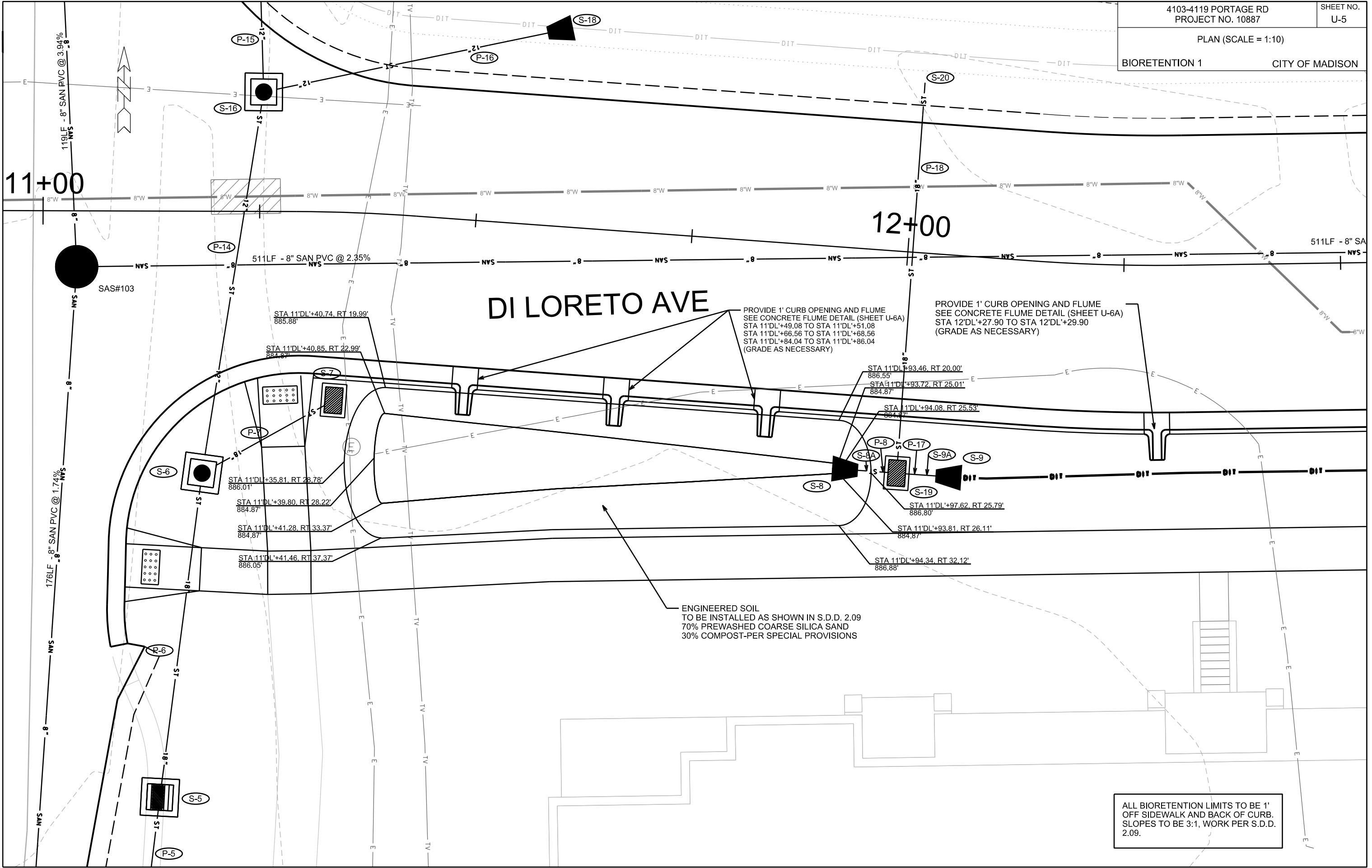


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



DI LORETO AVE

PROVIDE 1' CURB OPENING AND FLUME
SEE CONCRETE FLUME DETAIL (SHEET U-6A)
STA 11'DL'+49.08 TO STA 11'DL'+51.08
STA 11'DL'+66.56 TO STA 11'DL'+68.56
STA 11'DL'+84.04 TO STA 11'DL'+86.04
(GRADE AS NECESSARY)

PROVIDE 1' CURB OPENING AND FLUME
SEE CONCRETE FLUME DETAIL (SHEET U-6A)
STA 12'DL'+27.90 TO STA 12'DL'+29.90
(GRADE AS NECESSARY)

ENGINEERED SOIL
TO BE INSTALLED AS SHOWN IN S.D.D. 2.09
70% PREWASHED COARSE SILICA SAND
30% COMPOST-PER SPECIAL PROVISIONS

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

11+00

12+00

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

4103-4119 Portage Rd Rain Garden											
RAIN GARDEN PLANTING SCHEDULE											
COMMON PLANT NAME	SCIENTIFIC NAME	SIZE	P O T T D	D R Y	W E T	S P R I N G	S u m m e r	F A L L	Q t y		
Forbs											
Lavendar Hyssop	<i>Agastache foeniculum</i>	2.5" Plug	X		X	X	X		14		
Nodding Onion	<i>Allium cernuum</i>	2.5" Plug	X	X		X	X		29		
Leadplant	<i>Amorpha canescens</i>	2.5" Plug	X	X		X	X		29		
Columbine	<i>Aquilegia canadensis</i>	2.5" Plug	X	X		X	X		29		
Butterfly Weed	<i>Asclepias tuberosa</i>	2.5" Plug	X	X		X	X		29		
Heath Aster	<i>Aster ericoides</i>	2.5" Plug	X	X		X	X		29		
Silky Aster	<i>Aster sericeus</i>	2.5" Plug	X	X		X	X		29		
Harebell	<i>Campanula rotundifolia</i>	2.5" Plug	X	X		X	X		29		
Lanceleaf Coreopsis	<i>Coreopsis lanceolata</i>	2.5" Plug	X	X		X	X		29		
Shooting Star	<i>Dodecatheon meadia</i>	2.5" Plug	X	X		X	X		29		
Wild Geranium	<i>Geranium maculatum</i>	2.5" Plug	X	X		X	X		29		
Western Sunflower	<i>Helianthus occidentalis</i>	2.5" Plug	X		X	X	X		14		
Northern Blue Flag Iris	<i>Iris versicolor</i>	2.5" Plug	X		X	X	X		14		
Virginia Mountain Mint	<i>Pycnanthemum virginianum</i>	2.5" Plug	X		X	X	X		14		
Black-eyed Susan	<i>Rudbeckia hirta</i>	2.5" Plug	X		X	X	X		14		
Zig Zag Goldenrod	<i>Solidago flexicaulis</i>	2.5" Plug	X		X	X	X		14		
Spiderwort	<i>Tradescantia bracteata</i>	2.5" Plug	X	X		X	X		29		
Golden Alexander	<i>Zizia aurea</i>	2.5" Plug	X		X	X	X		14		
Sedges											
Bebb's Sedge	<i>Carex bebbii</i>	2.5" Plug	X		X	X	X		14		
Common Oak Sedge	<i>Carex pensylvanica</i>	2.5" Plug	X	X		X	X		29		
Brown Fox Sedge	<i>Carex vulpinoidea</i>	2.5" Plug	X	X		X	X		29		
Wool-grass	<i>Scirpus cyperinus</i>	2.5" Plug	X		X	X	X		14		
Grasses											
Sweet Grass	<i>Hierochloe odorata</i>	2.5" Plug	X		X	X	X		14		
Sideoats Grama Grass	<i>Bouteloua curtipendula</i>	2.5" Plug	X	X		X	X		29		
Little Blue Stem Grass	<i>Schizachyrium scoparium</i>	2.5" Plug	X	X		X	X		29		
Prairie Dropseed	<i>Sporobolus heterolepis</i>	2.5" Plug	X		X	X	X		14		
TOTAL PLANTS									589		

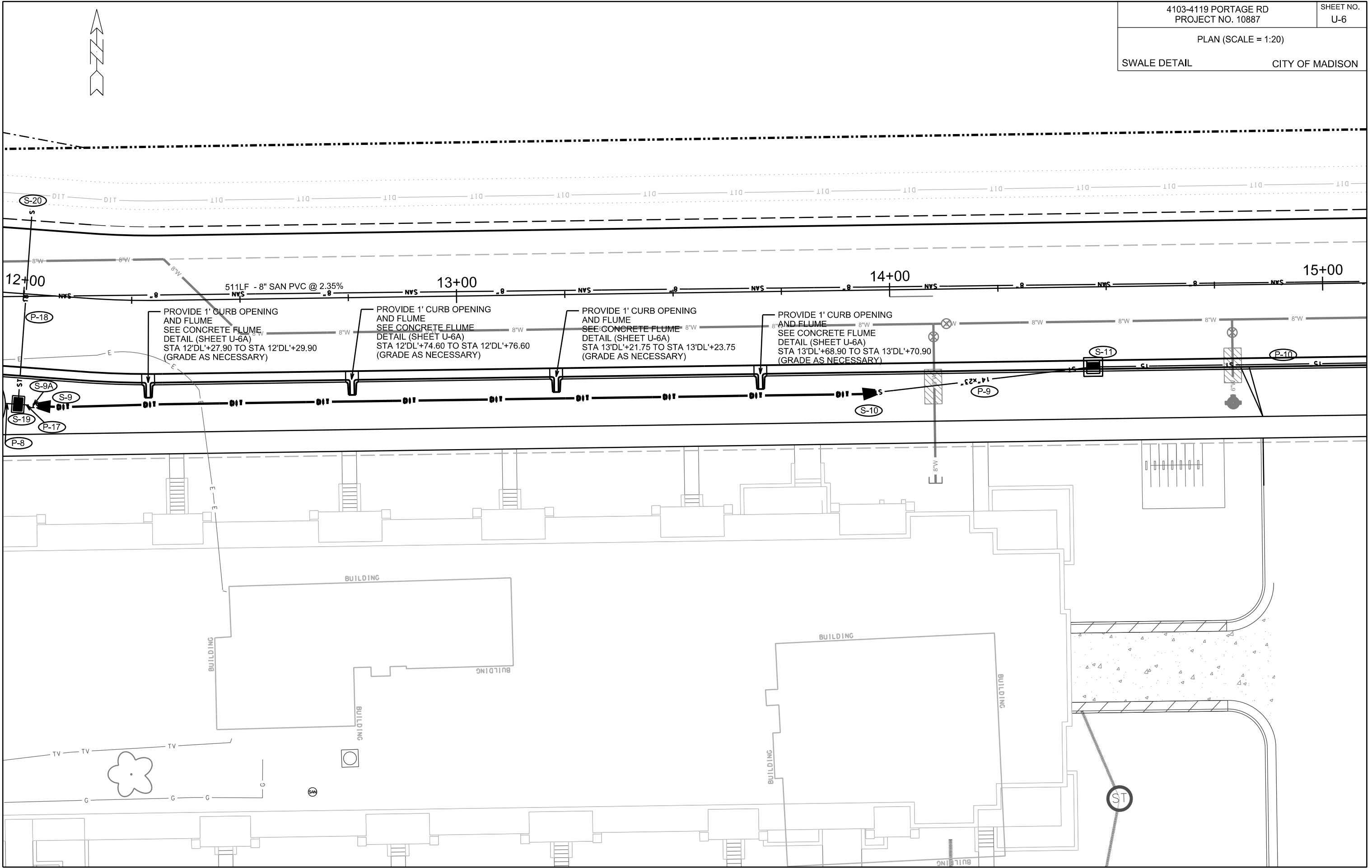


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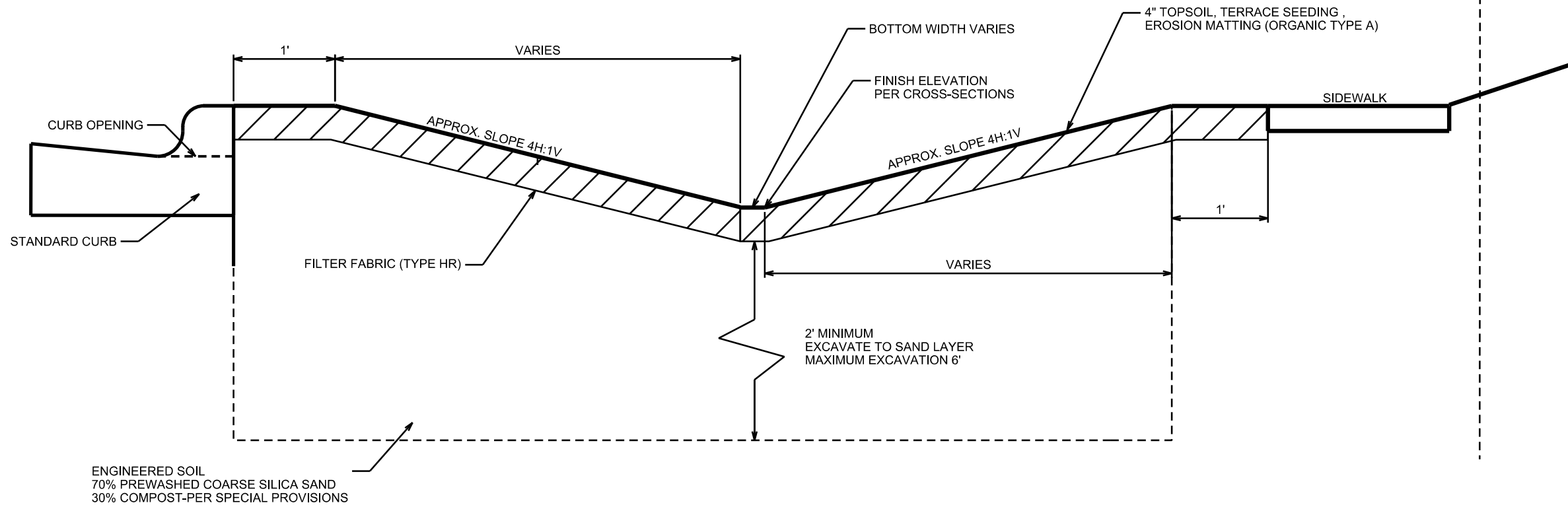
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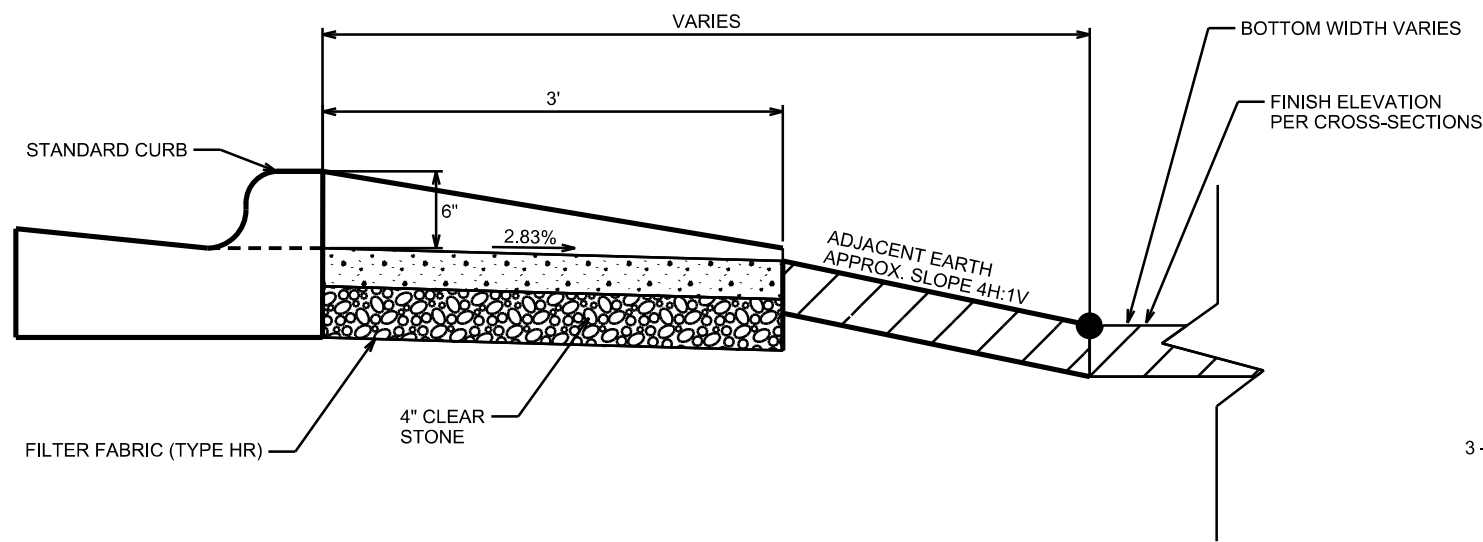
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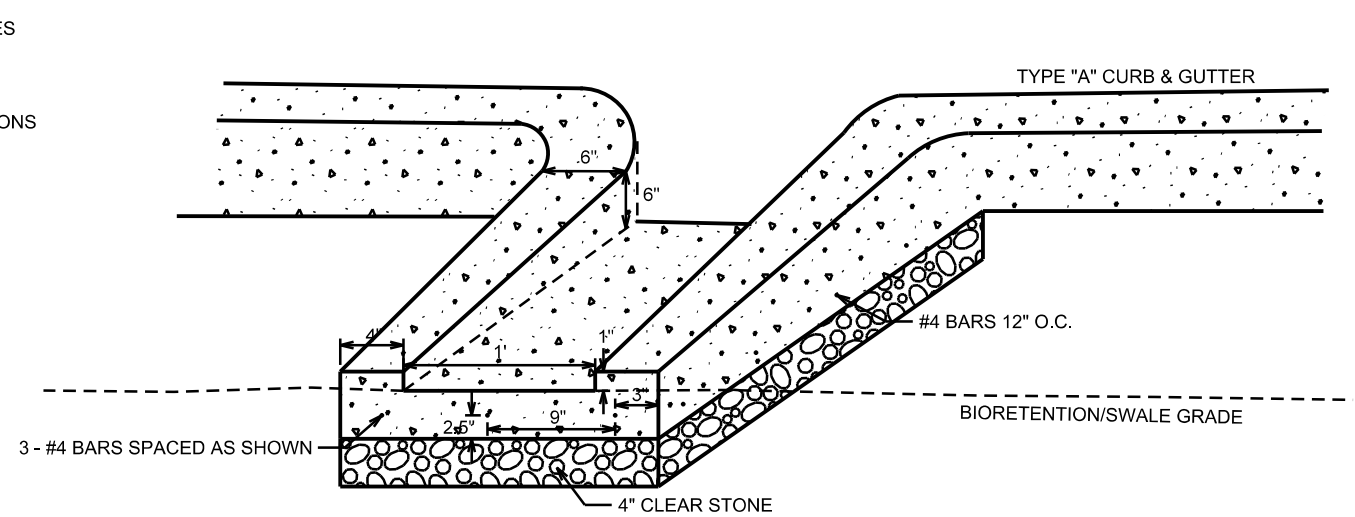
SWALE DETAIL (NOT TO SCALE)



CONCRETE FLUME OPENING DETAIL (NOT TO SCALE)



CONCRETE FLUME DETAIL (NOT TO SCALE)



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

SANITARY SCHEDULE

ALIGNMENT CODES:

'DL' - DI LORETO AVE
'PR' - PORTAGE RD

4103-4119 PORTAGE ROAD
PROJECT NO. 10887

SHEET NO.
U-7

SANITARY SEWER SCHEDULE CITY OF MADISON

REVISED LES 5/18/2016

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
* SAS#101	53'PR'+15.20	RT-0.00	879.96	868.90	11.06	
SAS#102	54'PR'+57.10	RT-15.93	881.63	871.43	10.20	
SAS#103	56'PR'+30.93	RT-12.42	885.6	874.60	11.00	
SAS#104	16'DL'+15.49	RT-0.00	897.73	886.73	11.00	
SAS#105	19'DL'+07.79	LT-0.00	904.96	894.46	10.50	
SAS#106	57'PR'+50.00	RT-6.00	889.88	879.50	10.38	FUTURE WORK

PROPOSED SANITARY PIPES

FROM SAS (DWNSTRM)	TO SAS (UPSTREAM)	EI # (DWNSTRM)	EI # (UPSTRM)	LENGTH (FT)	SLOPE (%)	SIZE (DIA)	PVC TYPE	NOTES
* SAS#101	SAS#102	870.30	871.43	144	0.79%	8"	SDR-35	PER ASTM D3034
SAS#102	SAS#103	871.53	874.60	176	1.74%	8"	SDR-35	PER ASTM D3034
SAS#103	SAS#104	874.70	886.73	511	2.35%	8"	SDR-35	PER ASTM D3034
SAS#103	SAS#106	874.80	879.50	119	3.94%	8"	SDR-35	PER ASTM D3034
* SAS#104	STUB#1	886.93	886.99	12	0.50%	8"	SDR-35	PER ASTM D3034
* SAS#102	STUB#3	871.63	871.78	31	0.50%	8"	SDR-35	PER ASTM D3034
SAS#106	STUB#4	879.60	879.64	8	0.53%	8"	SDR-35	PER ASTM D3034
SAS#104	STUB#5	886.83	887.10	12	2.25%	8"	SDR-35	PER ASTM D3034

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
STUB#1	16'DL'+15.51	RT-42.99	-	887.15	-	
STUB#2	19'DL'+07.81	RT-42.68	-	894.77	-	FUTURE WORK
STUB#3	54'PR'+57.10	RT-43.93	-	871.77	-	
STUB#4	57'PR'+57.50	RT-5.76	-	879.64	-	
STUB#5	16'DL'+62.00	RT-0.00	-	888.01	-	

PLOT SCALE: 1"=100'

PLOT NAME: 10887

REV. DATE: 05/18/2016

STORM SEWER SCHEDULE

ALIGNMENT CODES:

'PR'- PORTAGE ROAD
'DL'- DI LORETO AVENUE

4103-4119 PORTAGE RD
PROJECT NO. 10887

SHEET NO.
U-8

STORM SEWER SCHEDULE

CITY OF MADISON

REVISED LES 5/18/2016

PROPOSED STORM STRUCTURES

STRUC NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
* S-1	52'PR'+27.10	RT-31.94	3X3-SAS	879.10	875.20	3.90	FUTURE WORK
* S-2	53'PR'+00.19	RT-31.45	3X3-SAS	879.90	875.74	4.16	FUTURE WORK
* S-3	54'PR'+02.53	RT-32.03	3X3-SAS	881.00	876.99	4.01	FUTURE WORK
* S-4	54'PR'+53.07	RT-26.50	3X3-SAS	881.42	877.33	4.09	FUTURE WORK
* S-5A	54'PR'+82.51	RT-23.41	18-IN RCP APRON ENDWALL W/ GATE	-	877.88	-	PER S.D.D. 5.4.3 AND S.D.D. 5.6.1
* S-5	55'PR'+71.00	RT-20.50	3X3 SAS	883.83	879.59	4.24	W/ R-1550-0054
* S-6	56'PR'+05.61	RT-28.83	3X3 SAS	885.35	881.06	4.29	W/ R-1550-0054
S-7	11'DL'+34.14	RT-21.75	H INLET	885.70	882.16	3.54	W/ R-1878-B7G
S-8	11'DL'+93.08	RT-25.61	15-IN RCP APRON ENDWALL W/ GATE	-	884.87	-	PER S.D.D. 5.4.3 AND S.D.D. 5.6.1
S-8A	11'DL'+97.08	RT-25.61	CONCRETE COLLAR	-	884.95	-	PER S.D.D. 5.4.5
S-9	12'DL'+08.05	RT-25.59	15-IN RCP APRON ENDWALL W/ GATE	-	885.52	-	PER S.D.D. 5.4.3 AND S.D.D. 5.6.1
S-9A	12'DL'+04.05	RT-25.60	CONCRETE COLLAR	-	885.20	-	PER S.D.D. 5.4.5
S-10	13'DL'+93.49	RT-24.00	14X23-IN HERCP APRON ENDWALL W/ GATE	-	890.01	-	PER S.D.D. 5.4.3 AND S.D.D. 5.6.1
S-11	14'DL'+46.75	RT-19.00	H INLET	893.07	890.32	2.75	W/ R-3067-7004-V
S-12	15'DL'+23.13	RT-19.00	H INLET	894.84	891.82	3.02	W/ R-3067-7004-V
S-13	19'DL'+25.22	RT-22.00	H INLET	905.05	902.05	3.00	FUTURE WORK
S-14	15'DL'+23.13	LT-15.00	STUB W/ CAP	-	892.24	-	INSTALL ELECTRONIC MARKER BALL
S-15	16'DL'+24.00	RT-19.38	STUB W/ CAP	-	894.55	-	INSTALL ELECTRONIC MARKER BALL
S-16	56'PR'+51.36	RT-33.80	3X3 SAS	885.96	882.33	3.63	W/ R-1550-0054
S-17	56'PR'+89.71	RT-32.21	12-IN RCP APRON ENDWALL W/ GATE	-	885.50	-	PER S.D.D. 5.4.1 AND S.D.D. 5.6.1
S-18	56'PR'+59.17	RT-69.42	12-IN RCP APRON ENDWALL W/ GATE	-	884.80	-	PER S.D.D. 5.4.1 AND S.D.D. 5.6.1
S-19	12'DL'+00.57	RT-25.60	H INLET	886.76	883.72	3.04	FP; W/ R-1878-B7G
S-20	12'DL'+00.56	LT-19.62	STUB W/ CAP	-	884.85	-	INSTALL ELECTRONIC MARKER BALL

PROPOSED STORM PIPES

PIPE NO.	FROM SAS (DWNSTRM)	TO SAS (UPSTREAM)	EI # (DWNSTRM)	EI # (UPSTRM)	PIPE LENGTH (FT)	PLAN LENGTH (FT)	SLOPE (%)	SIZE (DIA)	TYPE	NOTES
* P-1	T-4	S-1	872.81	875.20	103	105	2.32%	18"	RCP	FUTURE WORK
* P-2	S-1	S-2	875.20	875.74	73	76	0.74%	18"	STORM	FUTURE WORK
* P-3	S-2	S-3	875.74	876.99	103	106	1.21%	18"	STORM	FUTURE WORK
* P-4	S-3	S-4	876.99	877.33	50	53	0.68%	18"	STORM	FUTURE WORK
* P-5	S-5A	S-5	877.88	879.59	89	91	1.91%	18"	RCP	
* P-6	S-5	S-6	879.59	881.06	34	37	4.38%	18"	STORM	
* P-7	S-6	S-7	881.06	882.16	13	17	8.17%	18"	STORM	
P-8	S-8	S-19	884.87	885.00	6	7	2.00%	15"	STORM	
P-9	S-10	S-11	890.01	890.32	52	54	0.60%	14"X23"	HERCP	
P-10	S-11	S-12	890.32	891.82	73	76	2.04%	15"	RCP	
P-11	S-12	S-13	892.07	902.05	400	402	2.50%	12"	RCP	FUTURE WORK
P-12	S-12	S-14	892.07	892.24	33	34	0.52%	12"	RCP	
P-13	S-12	S-15	892.07	894.55	99	101	2.49%	12"	RCP	
* P-14	S-6	S-16	881.56	882.33	43	46	1.79%	12"	RCP	
P-15	S-16	S-17	882.33	885.50	37	38	8.60%	12"	RCP	
P-16	S-16	S-18	882.33	884.80	35	36	7.07%	12"	RCP	
P-17	S-19	S-9	885.00	885.52	6	7	8.01%	15"	STORM	
P-18	S-20	S-19	883.50	883.72	44	45	0.50%	18"	RCP	

STORM STRUCTURE TAP

STRUC NO.	STATION	LOCATION (OFFSET)	E.I.	TYPE
T-4	54'PR'+26.40	RT-13.63	872.81	

SPECIAL NOTES:

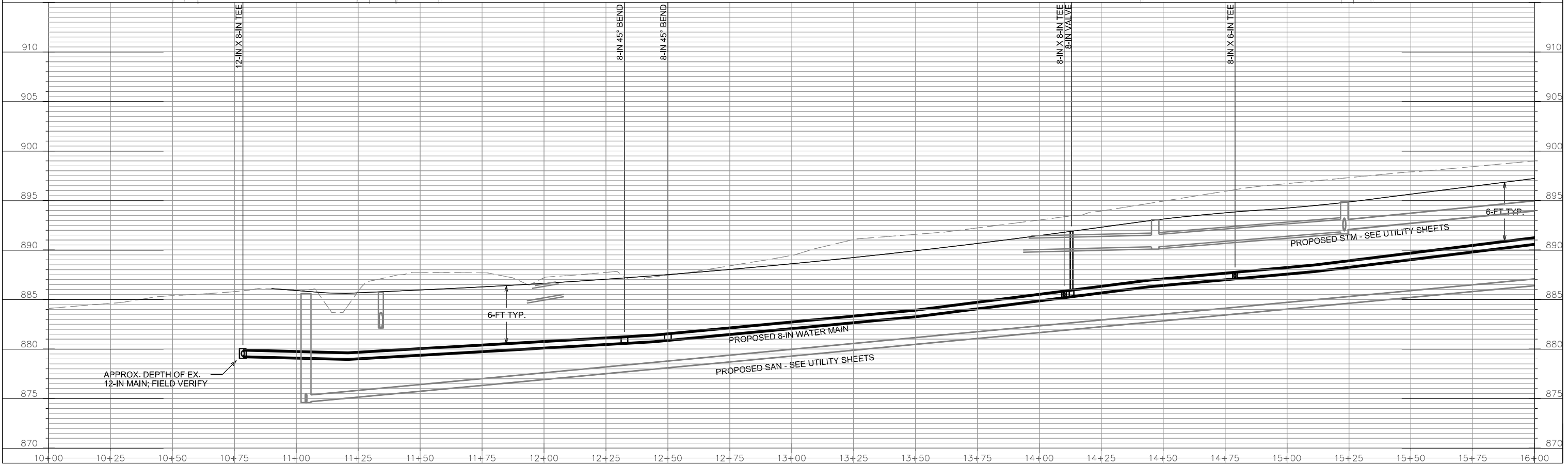
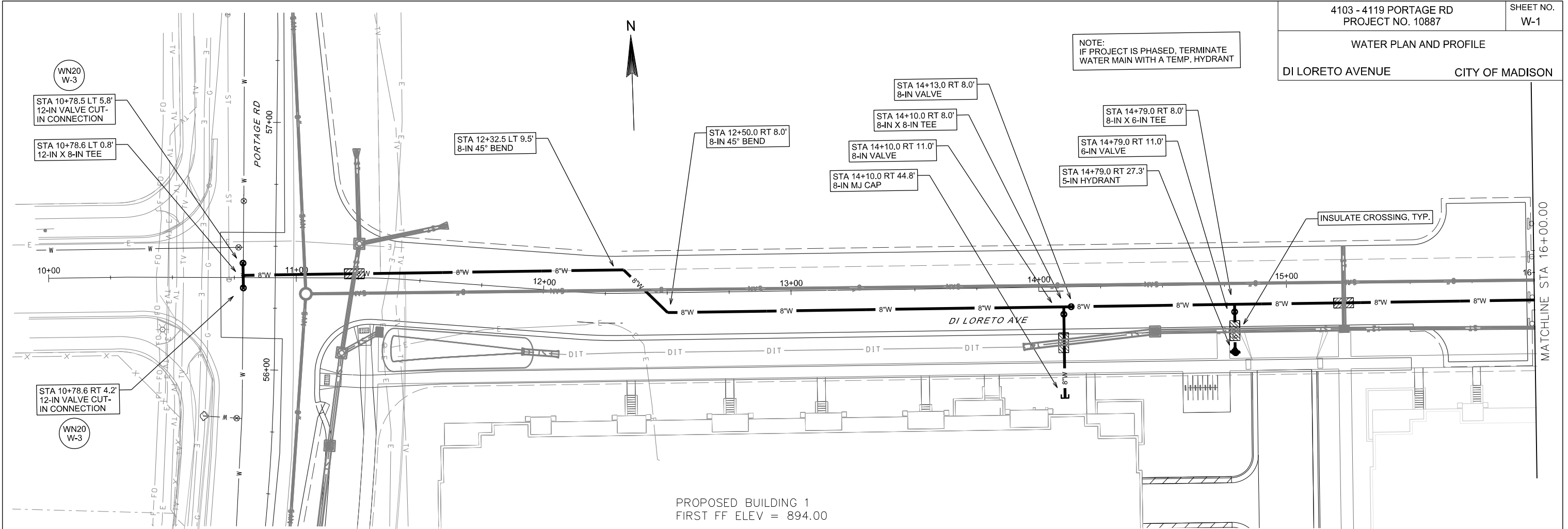
STANDARD NOTES:

- 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; UD = UNDERDRAIN
- 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 LAUREN STRIEGL OF CITY ENGINEERING AT (608) 266-4094, LSTRIEGL@CITYOFMADISON.COM, FOR PRECAST APPROVALS, OR FAX SHOP DRAWINGS TO (608) 264-9275.
- INLETS LOCATED IN TYPE "H" CURB SHALL BE INSTALLED PER S.D.D. 5.7.27

WATER PLAN AND PROFILE

DI LORETO AVENUE CITY OF MADISON

NOTE:
IF PROJECT IS PHASED, TERMINATE
WATER MAIN WITH A TEMP. HYDRANT



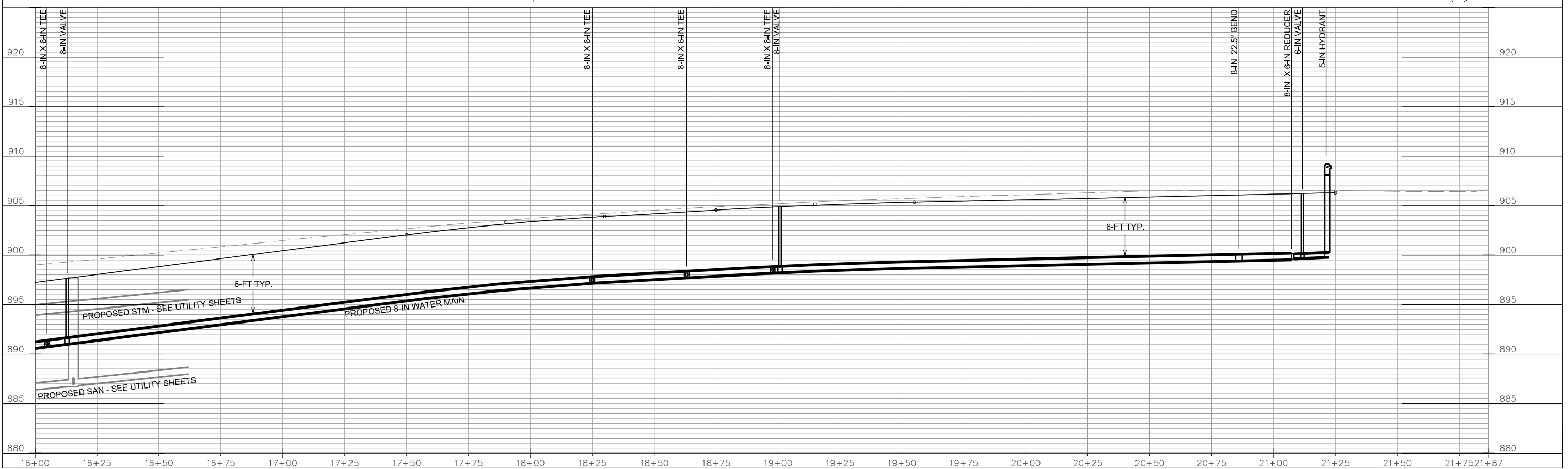
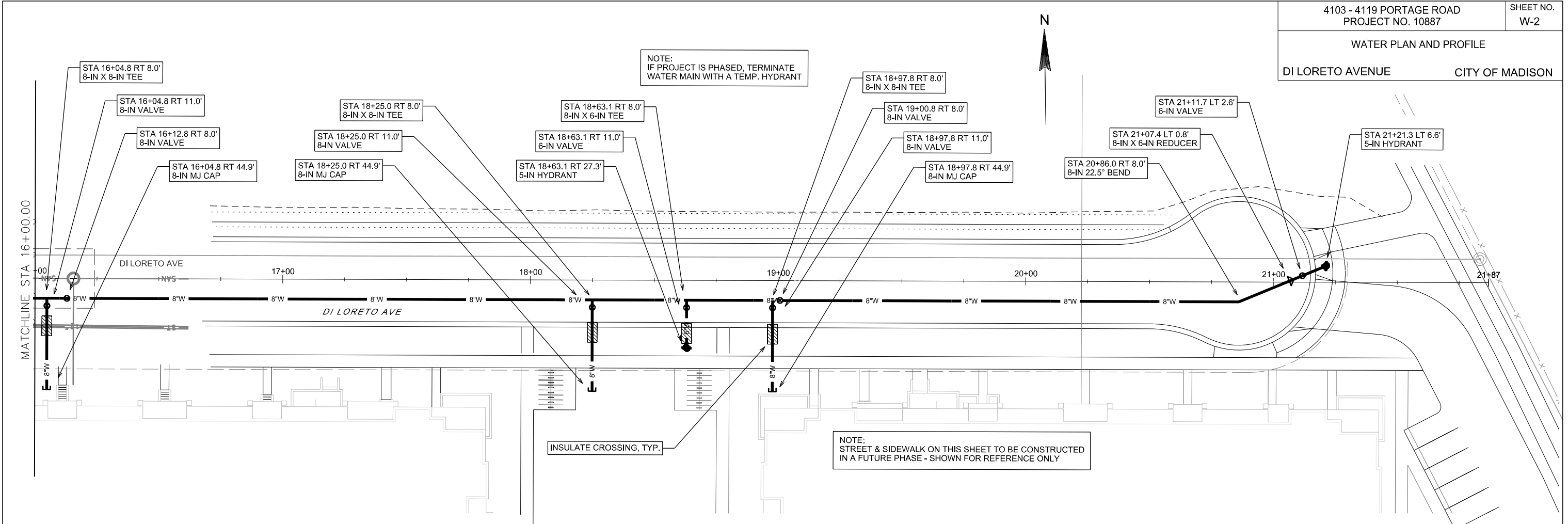
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PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

WATER PLAN AND PROFILE
DI LORETO AVENUE CITY OF MADISON

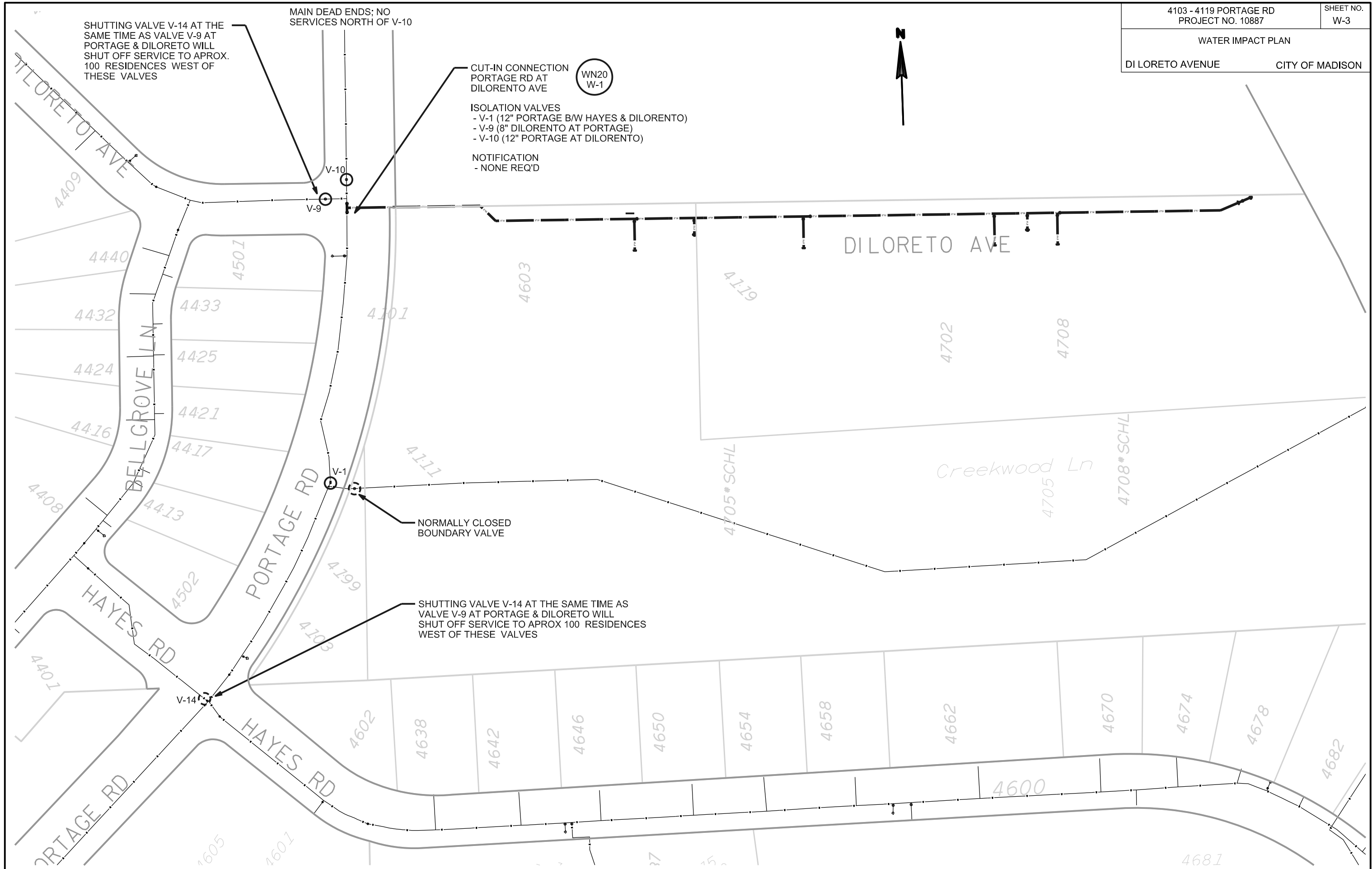


PLOT SCALE: _____

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REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

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.

CONSTRUCTION NOTES:

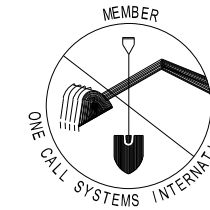
1. CONSTRUCT NEW WATER MAIN 6.0' BELOW FINISHED GRADE, UNLESS OTHERWISE NOTED. INSULATE MAIN WITH POLYSTYRENE BOARD AT UTILITY CROSSINGS OR OTHER AREAS IDENTIFIED BY ENGINEER AS HAVING INADEQUATE COVER.
2. VERIFY SIZE OF EXISTING WATER SERVICES AND RECONNECT SERVICES AS INDICATED.
3. MINIMIZE DISRUPTION OF SERVICE TO EXISTING CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE.
4. THE EXISTING UTILITIES SHOWN ON THIS PLAN REPRESENT THE BEST INFORMATION AVAILABLE TO THE WATER UTILITY AT THE TIME OF PLAN PREPARATION. CONTRACTOR IS RESPONSIBLE FOR HAVING EACH UTILITY LOCATED PRIOR TO COMMENCING WORK.

- 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

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.



ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:

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

- | | |
|----------------------|---|
| 65-FT - 6-IN PIPE | 4 - 8-IN MJ CAP |
| 1180-FT - 8-IN PIPE | 1 - 8-IN X 6-IN REDUCER |
| 1400-FT - POLYWRAP | 3 - 5-IN HYDRANT |
| 3 - 6-IN VALVE & BOX | 56 - LF 2-IN FOAM INSULATION |
| 7 - 8-IN VALVE & BOX | COPPER SERVICE TUBING & COUPLINGS (AS REQ'D) |
| 2 - 8-IN X 6-IN TEE | HYDRANT OR VALVE BOX RISERS/EXTENSIONS (AS REQ'D) |
| 4 - 8-IN X 8-IN TEE | |
| 2 - 8-IN 45° BEND | |
| 1 - 8-IN 22.5° BEND | |

ESTIMATE OF MATERIALS SUPPLIED BY CITY:

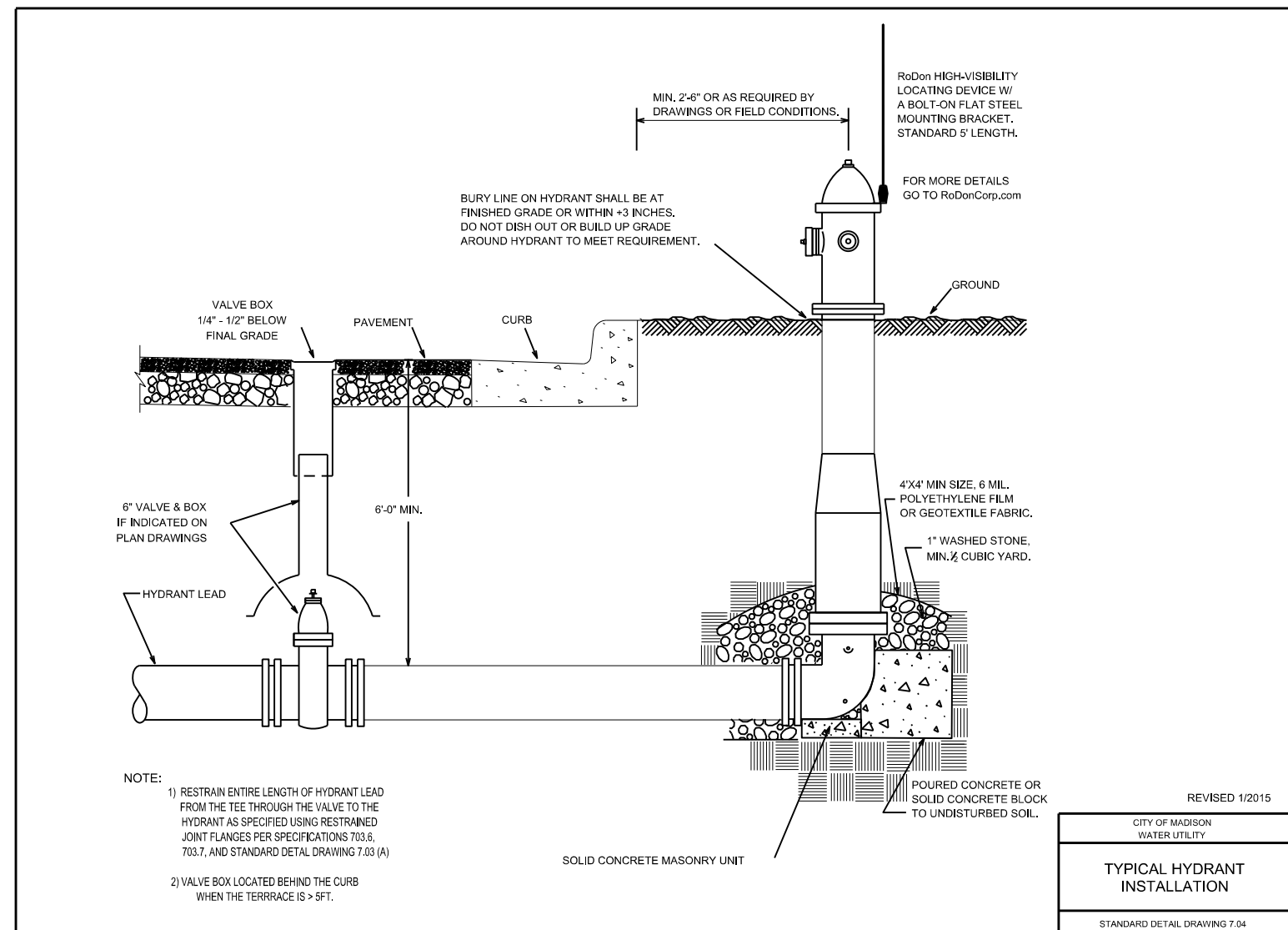
* ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF.

- 10-FT - 12-IN PIPE
- 2 - 12-IN VALVE & BOX
- 1 - 12-IN X 8-IN TEE

ESTIMATE OF MATERIALS SALVAGED:

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

NONE



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

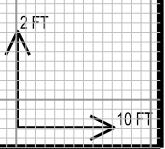
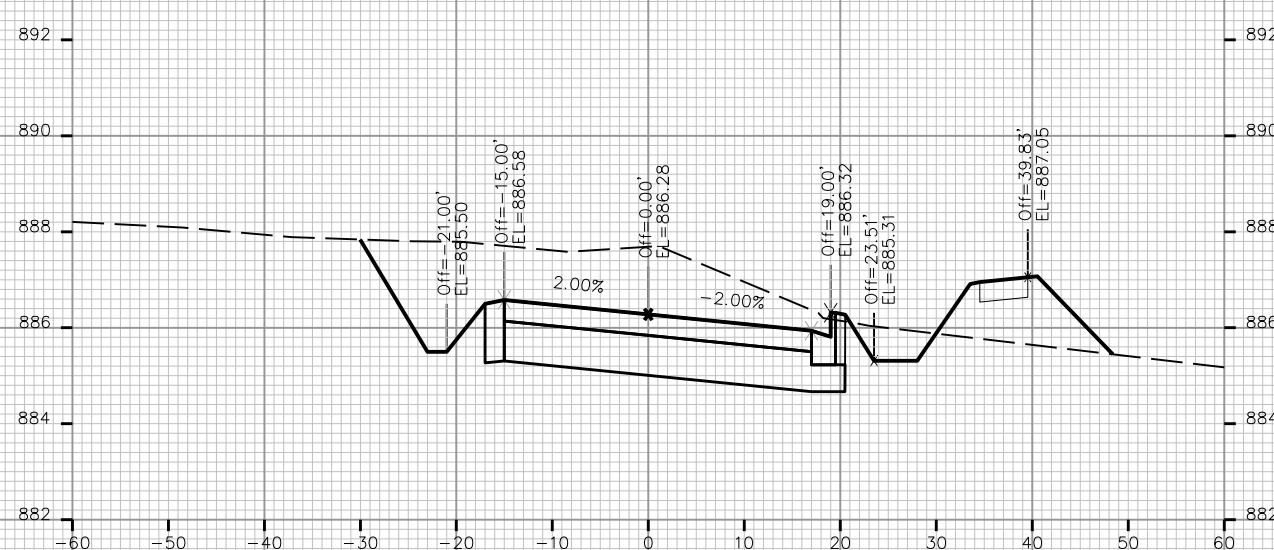
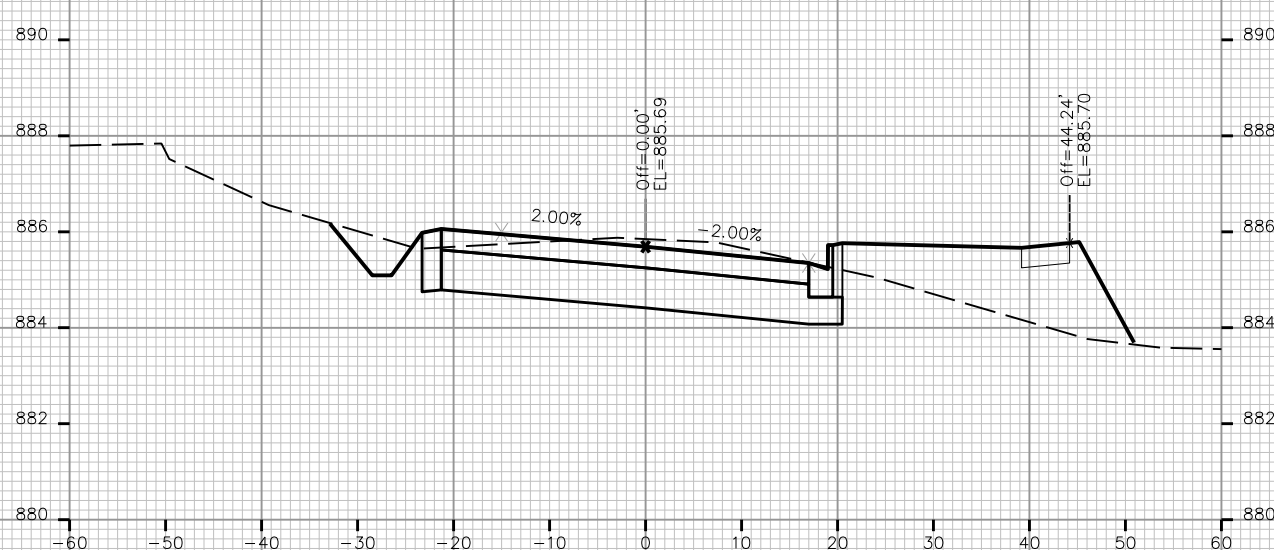
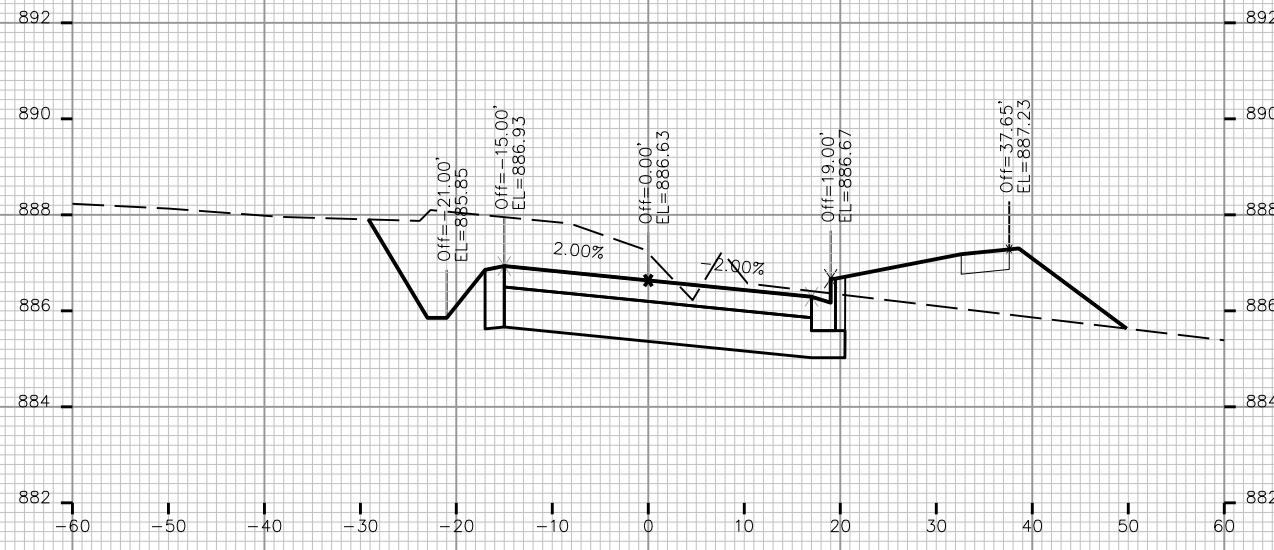
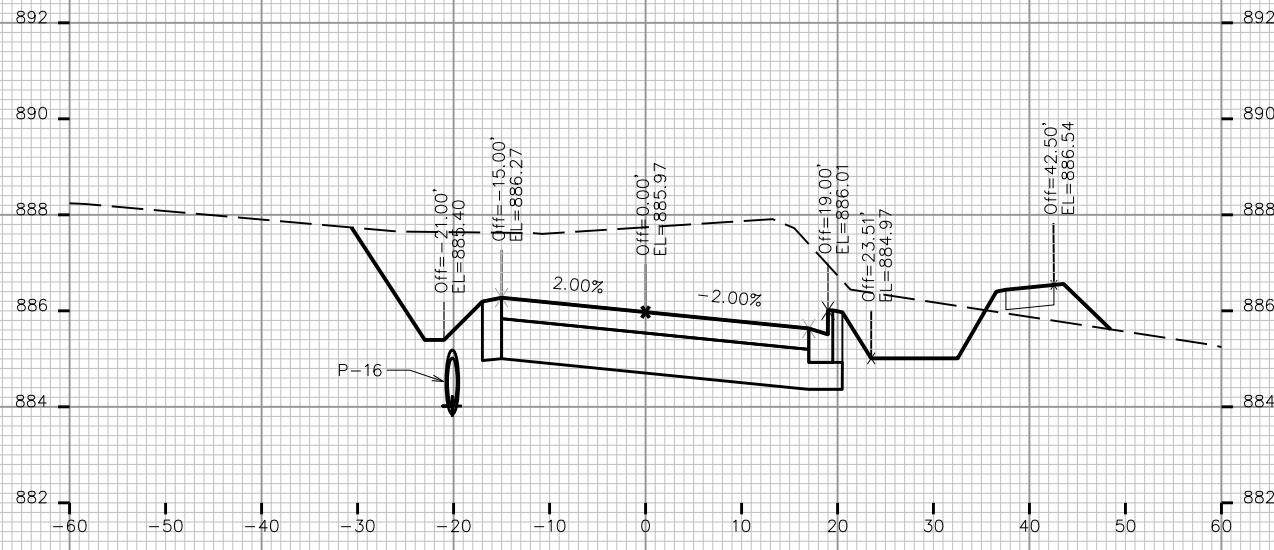
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

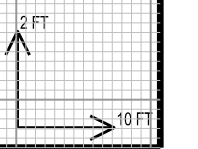
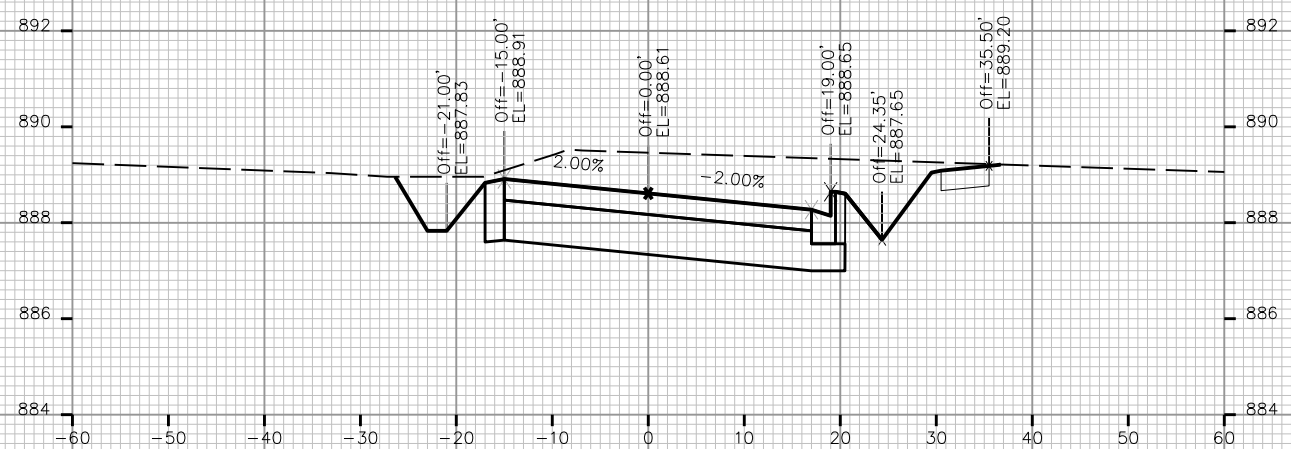
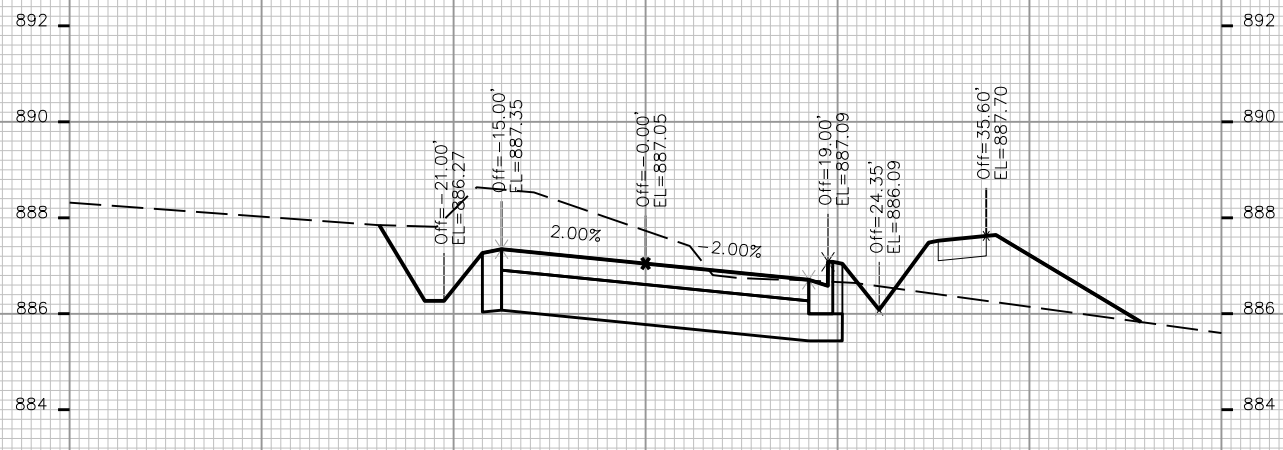
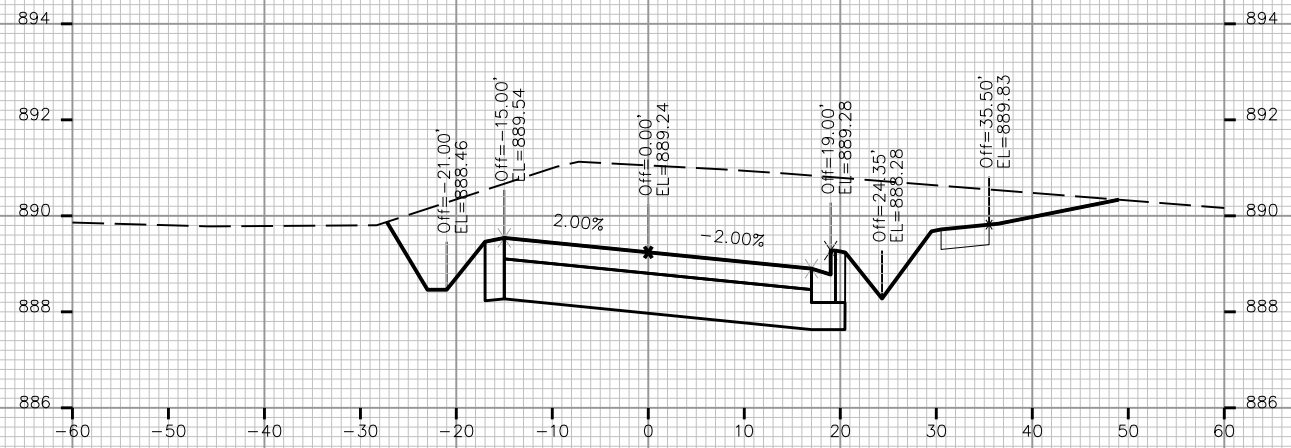
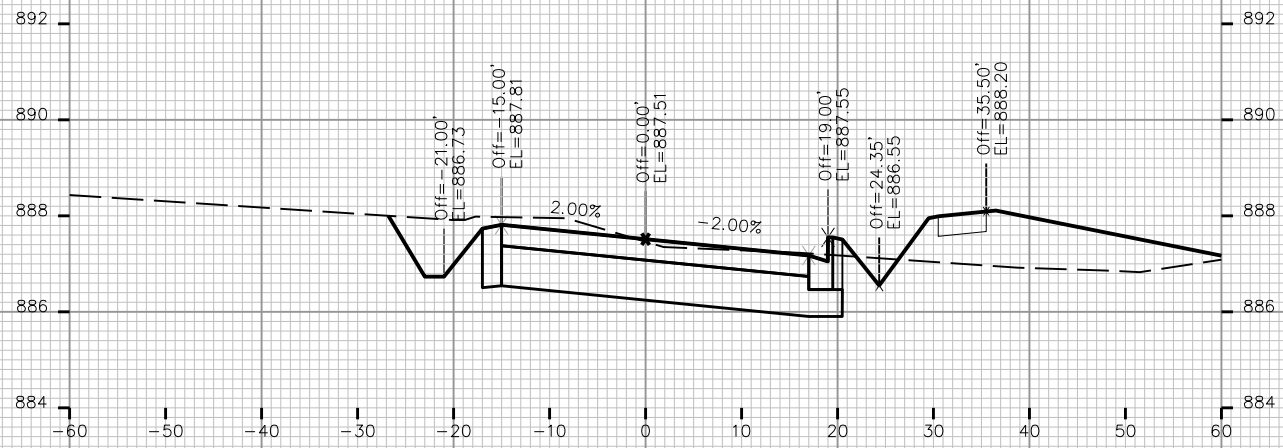
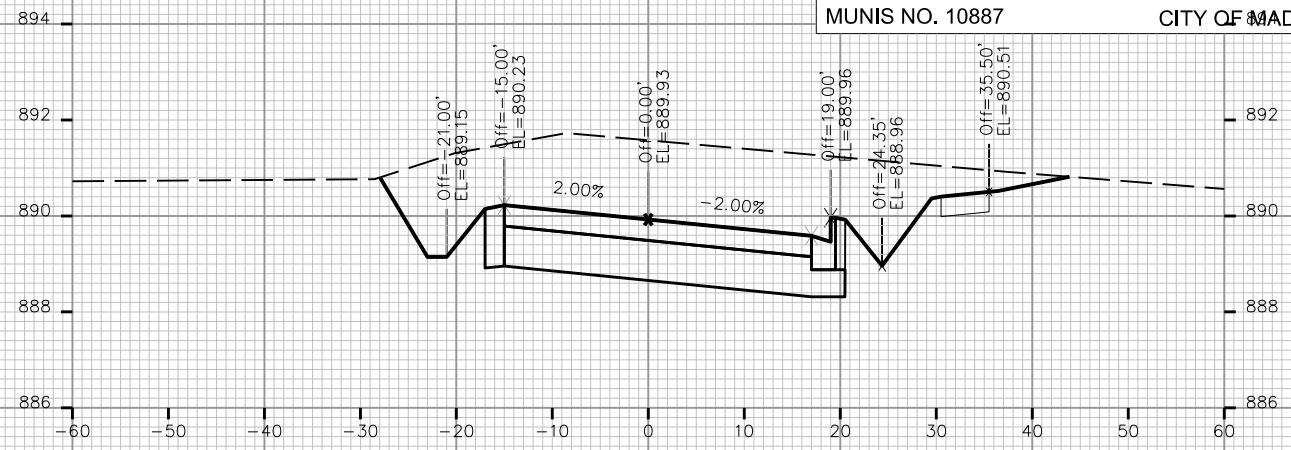
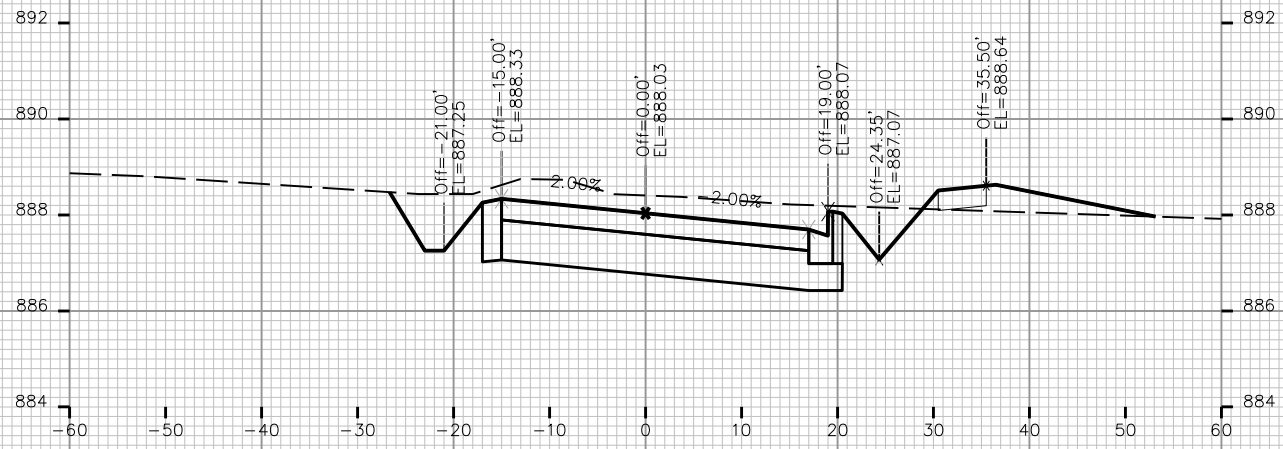


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS
DILORETO AVE

MUNIS NO. 10887

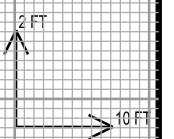
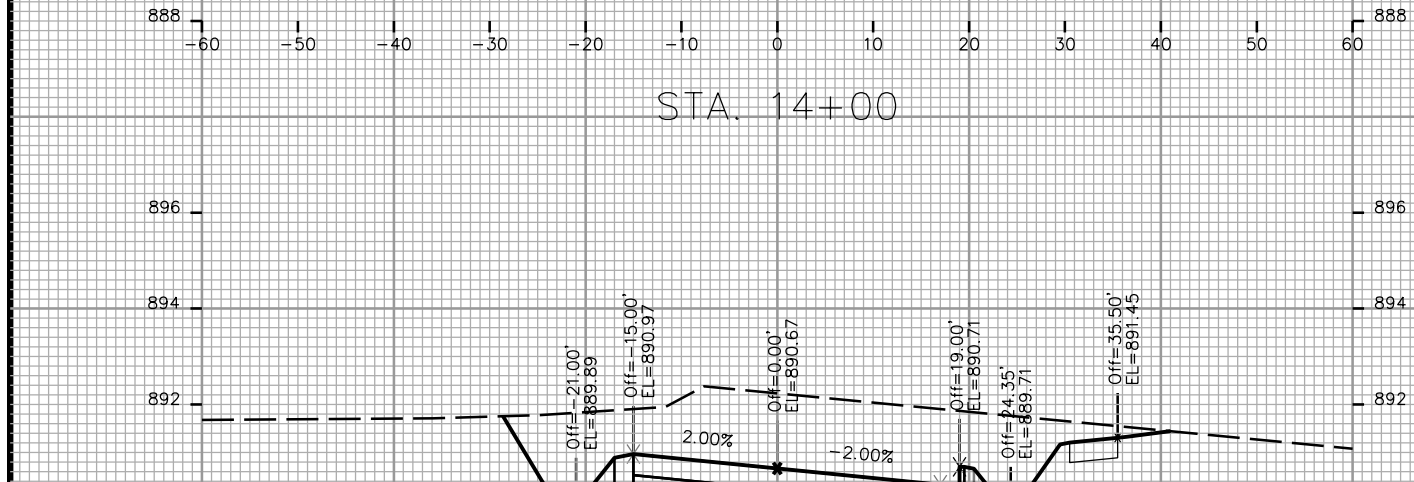
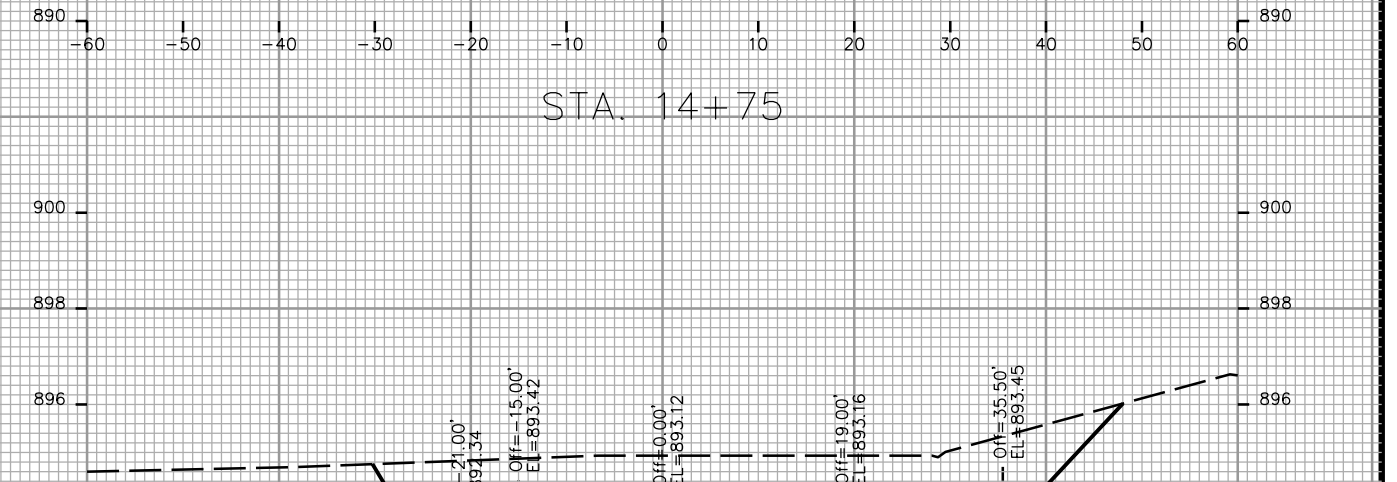
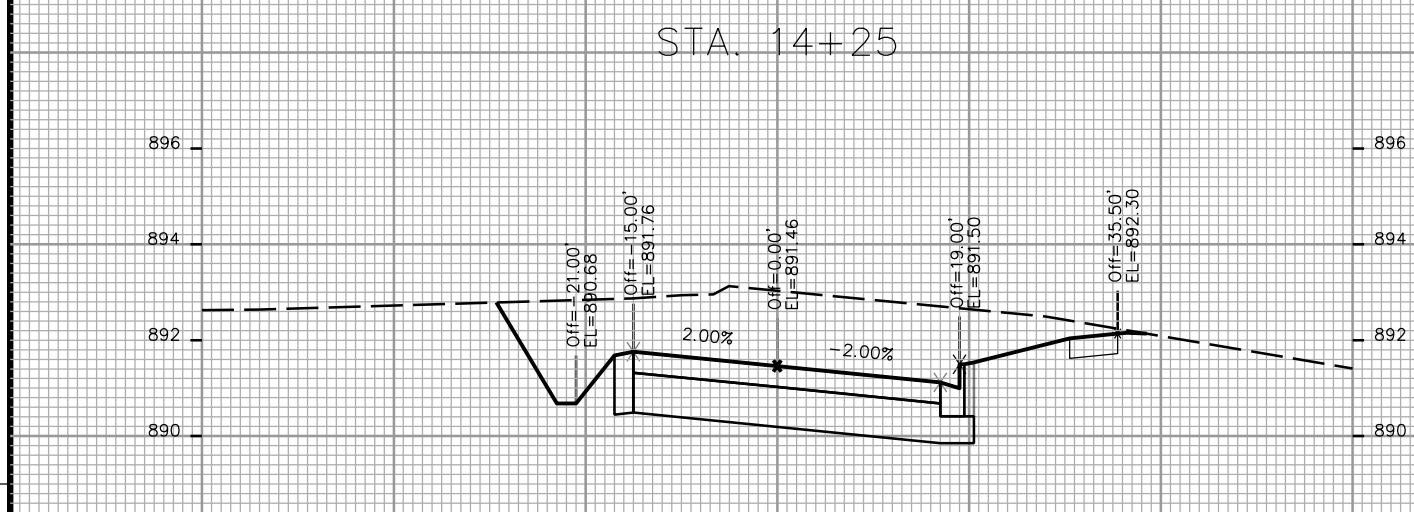
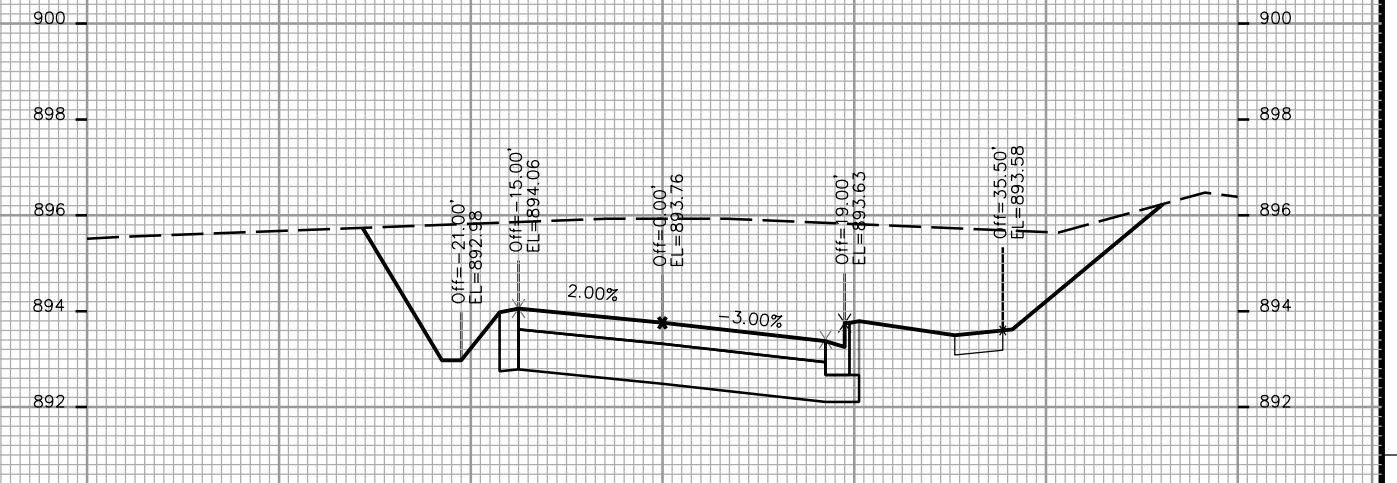
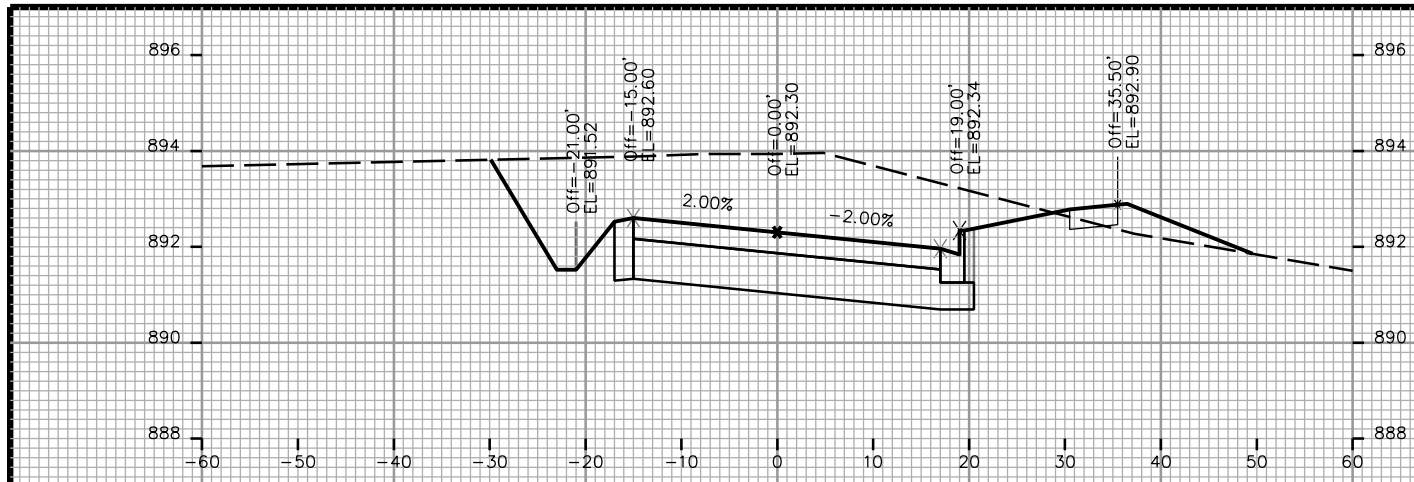
CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON - STREETS DIVISION



CROSS SECTIONS
DILORETO AVE

MUNIS NO. 10887

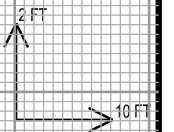
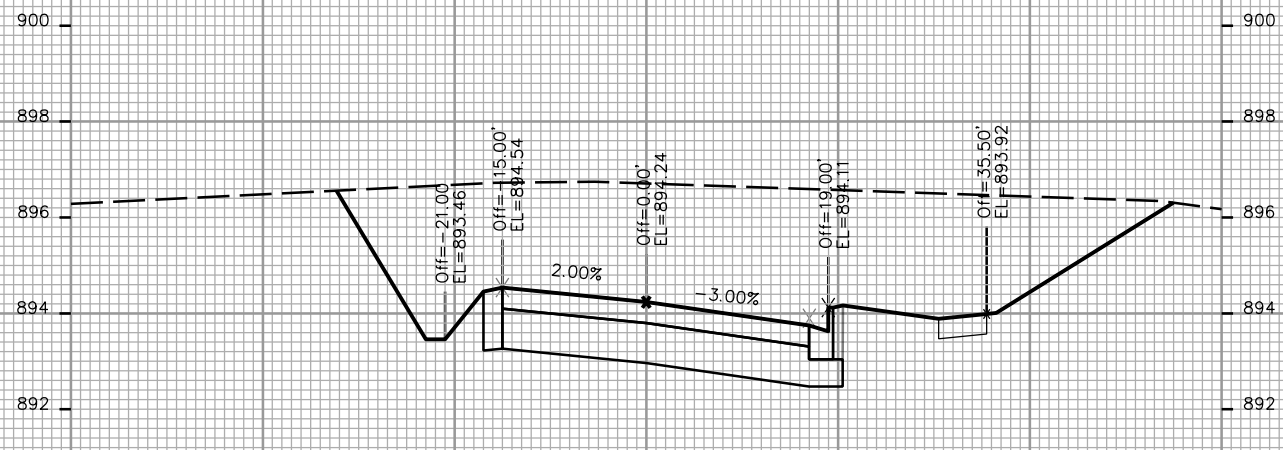
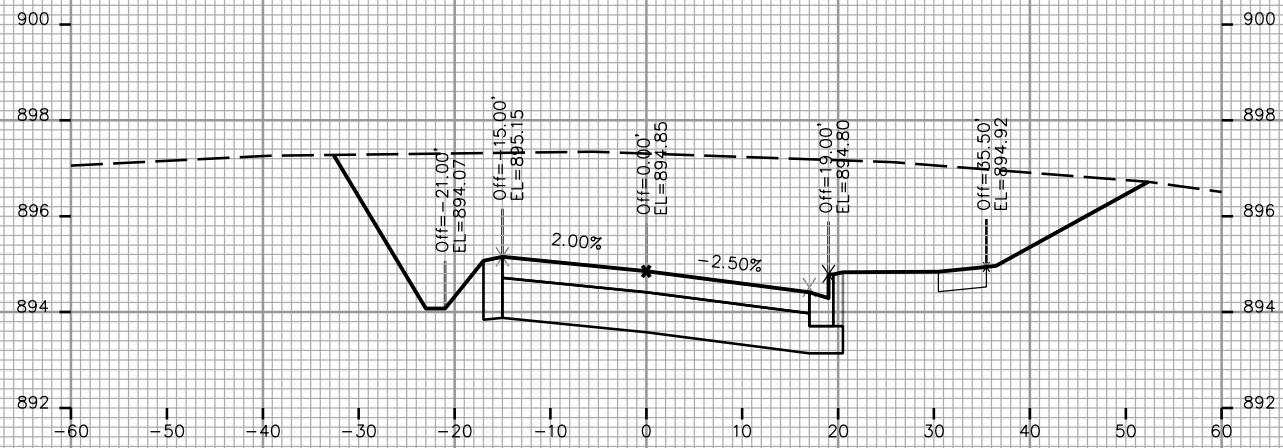
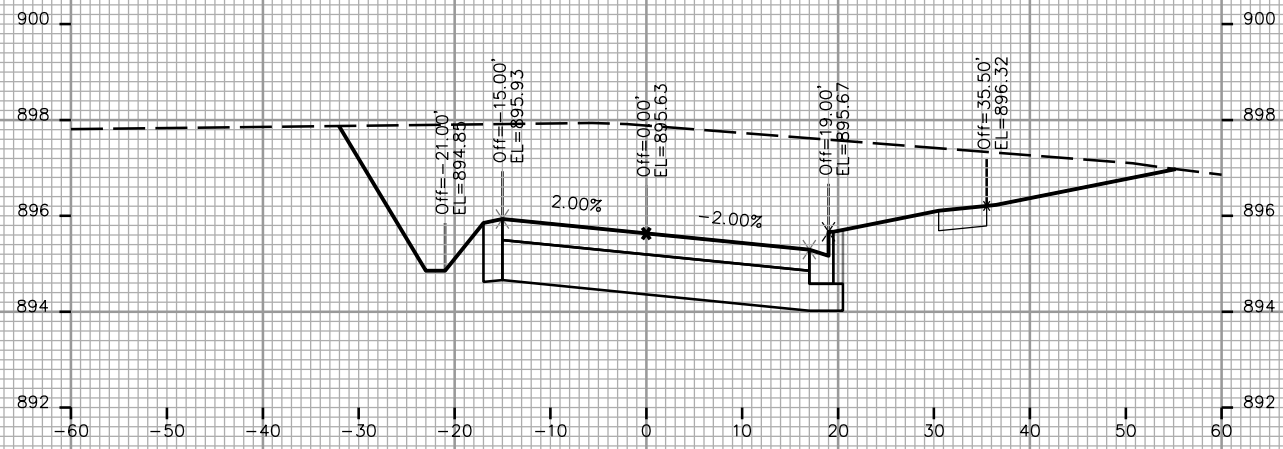
CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON - STREETS DIVISION

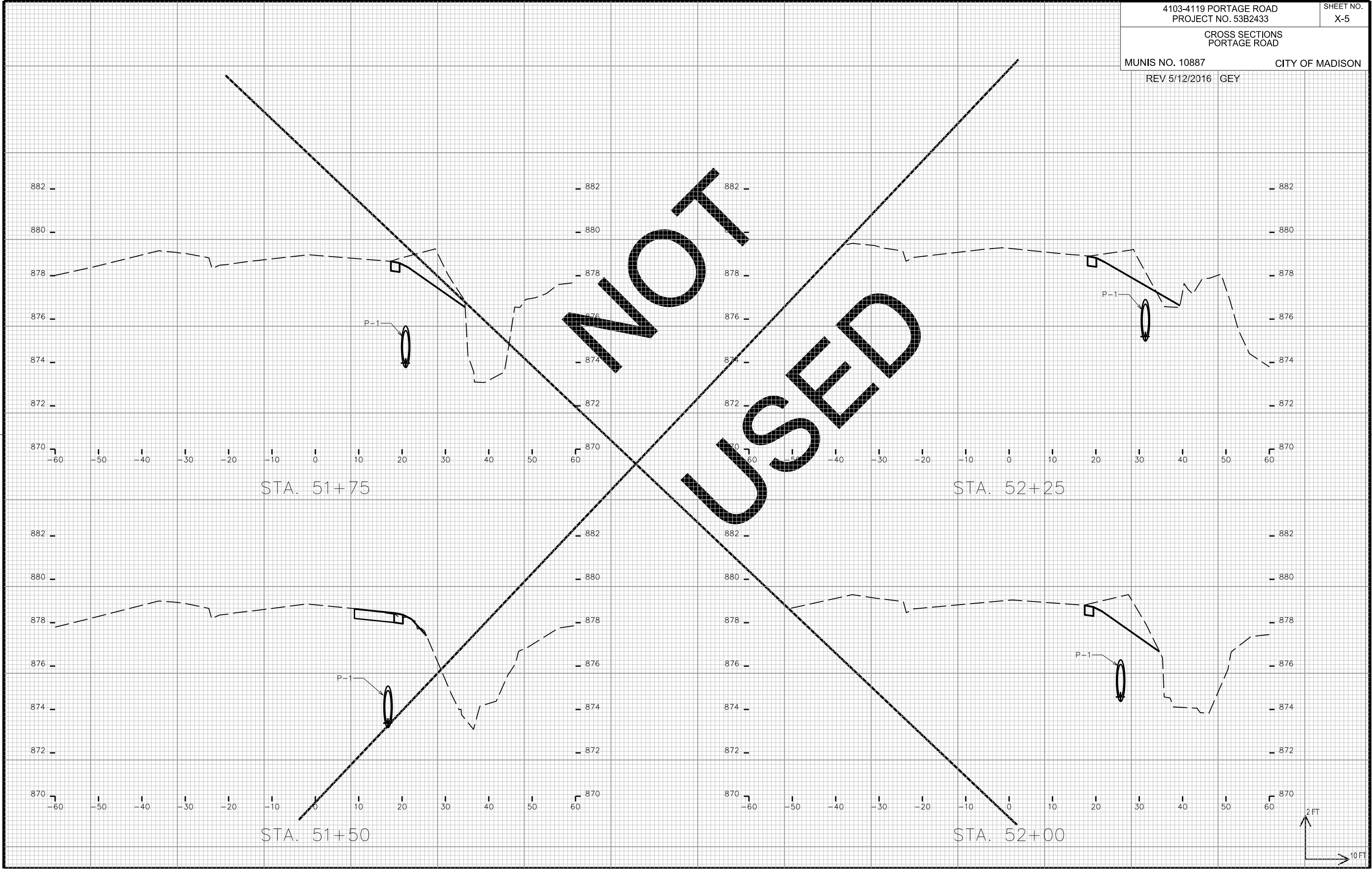


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



CROSS SECTIONS
PORTAGE ROAD

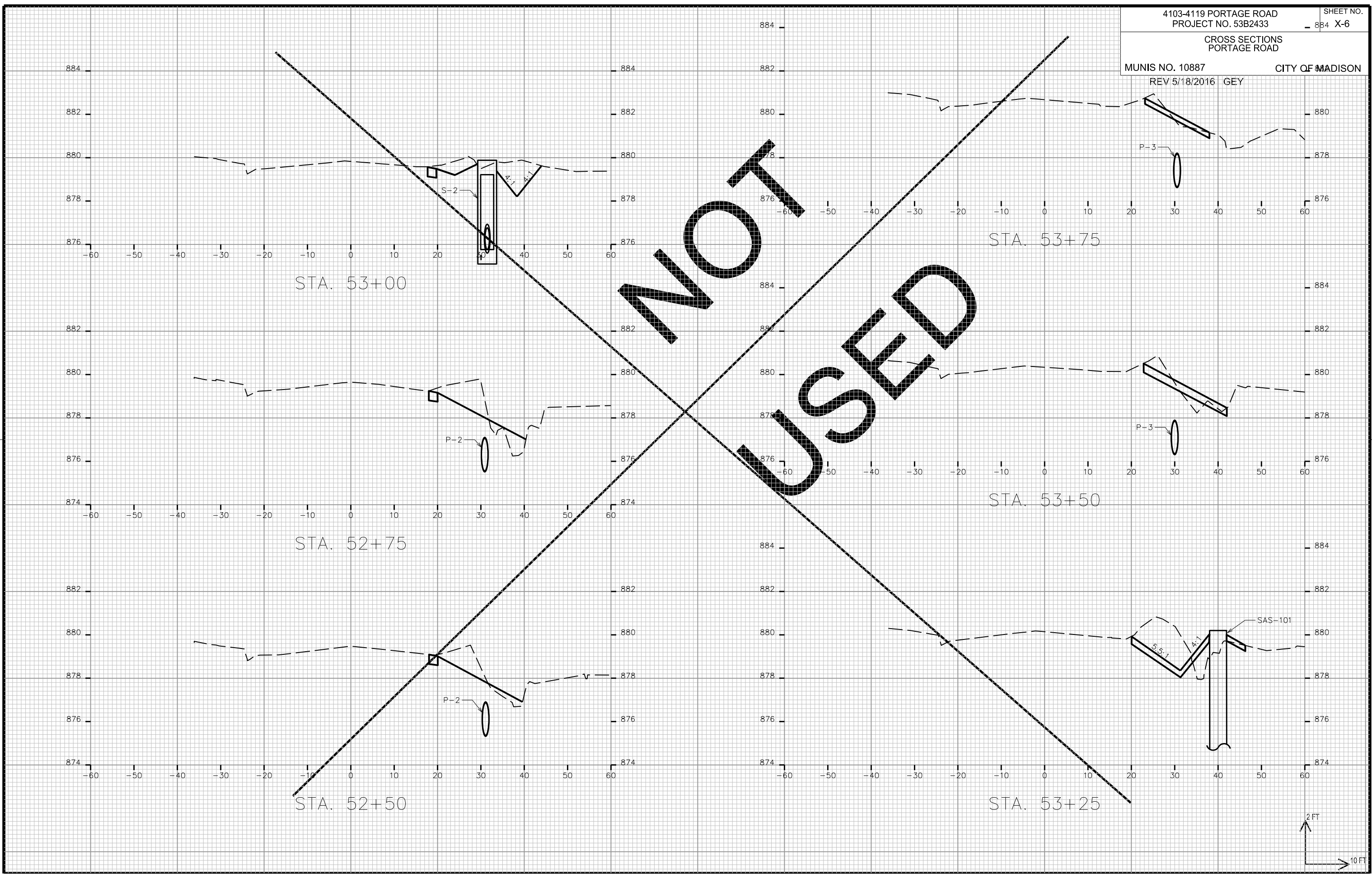
MUNIS NO. 10887 CITY OF MADISON
REV 5/18/2016 GEY

PLOT SCALE: _____

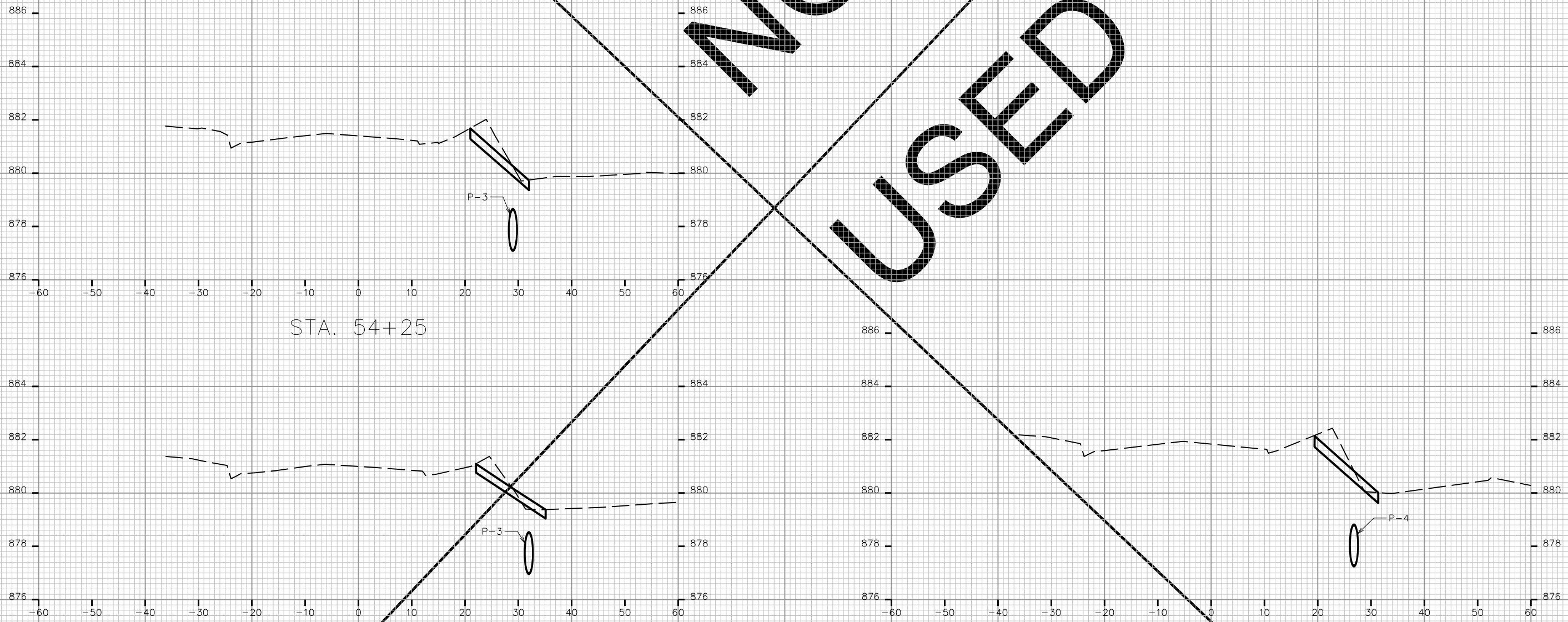
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



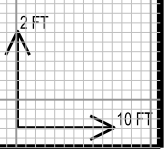
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USED**



STA. 54+25

STA. 54+00

STA. 54+50



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

CROSS SECTIONS
PORTAGE ROAD

MUNIS NO. 10887

CITY OF MADISON

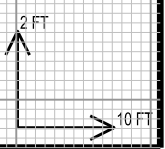
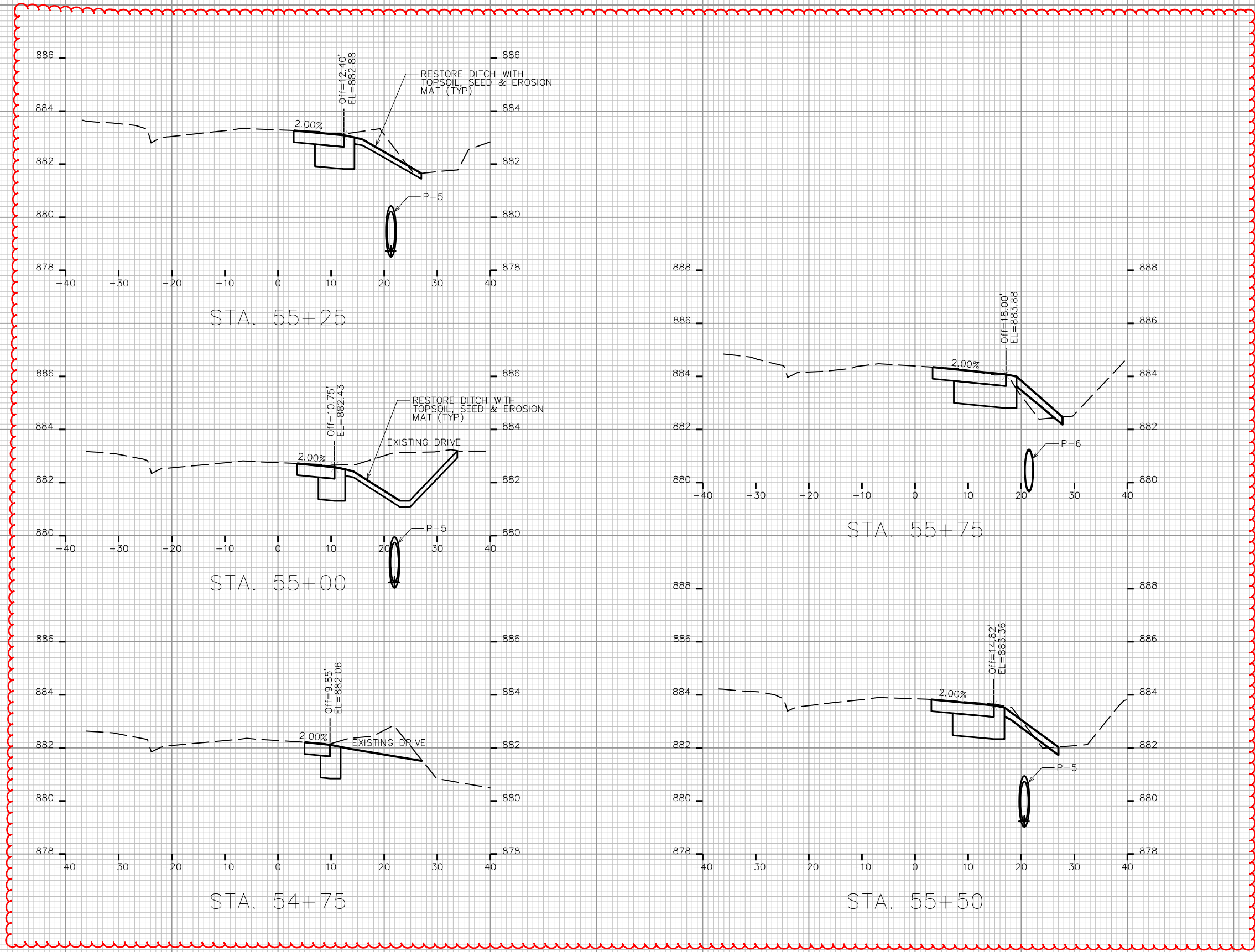
REV 5/18/2016 GEY

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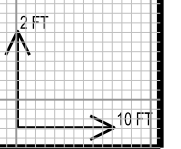
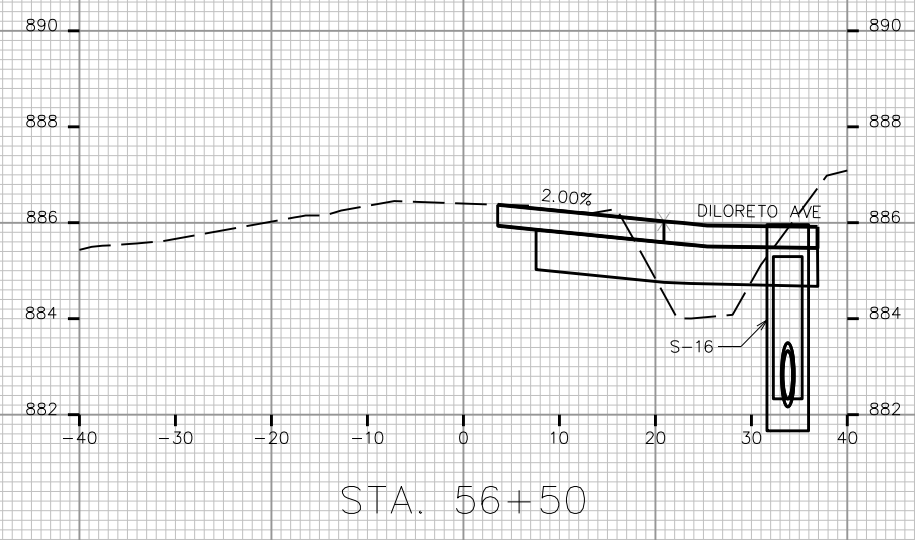
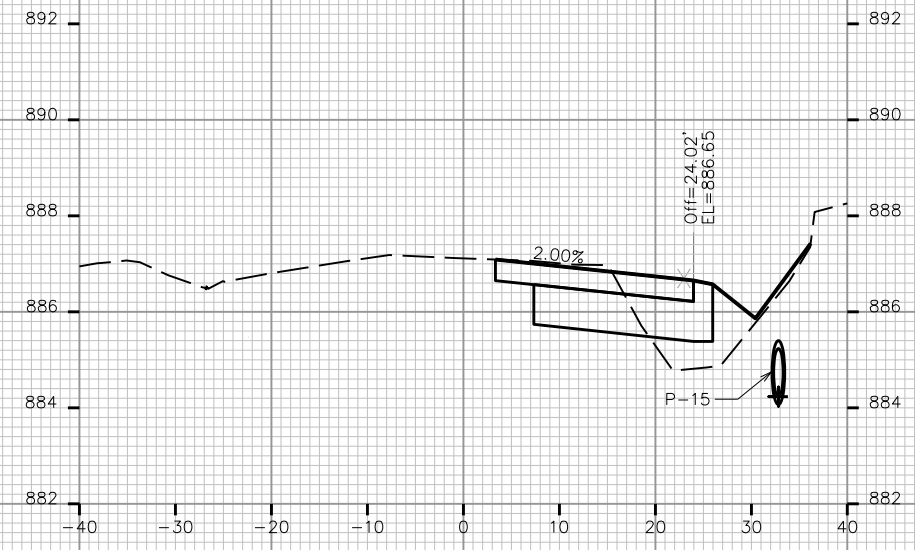
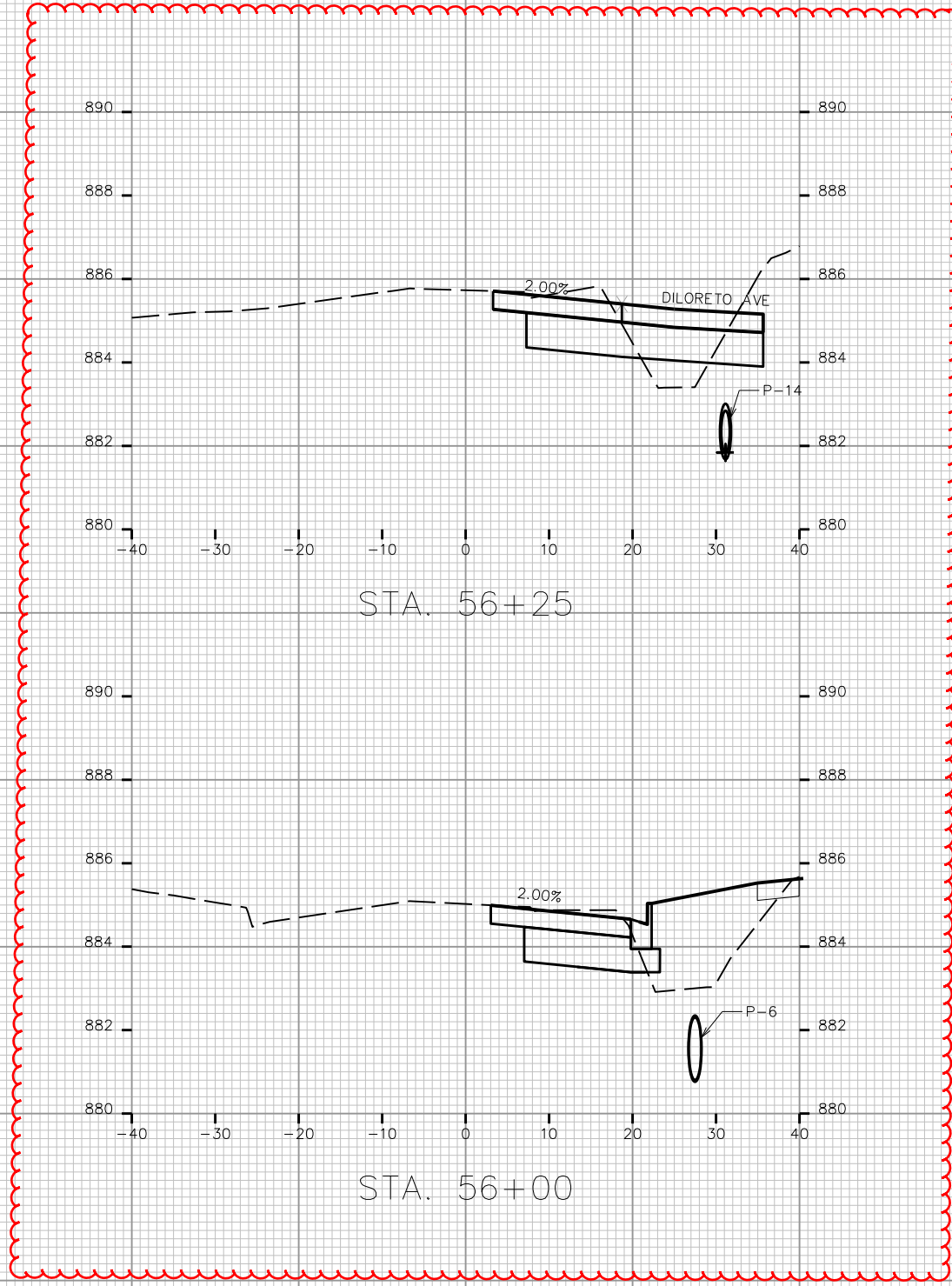


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REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

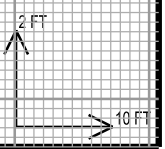
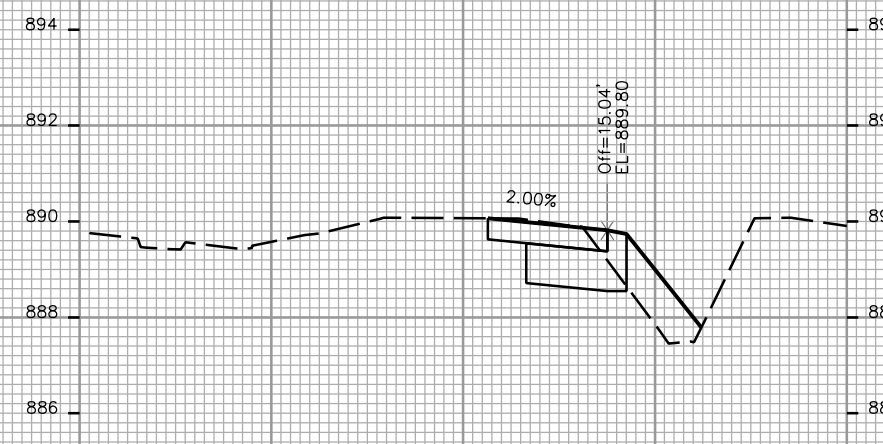
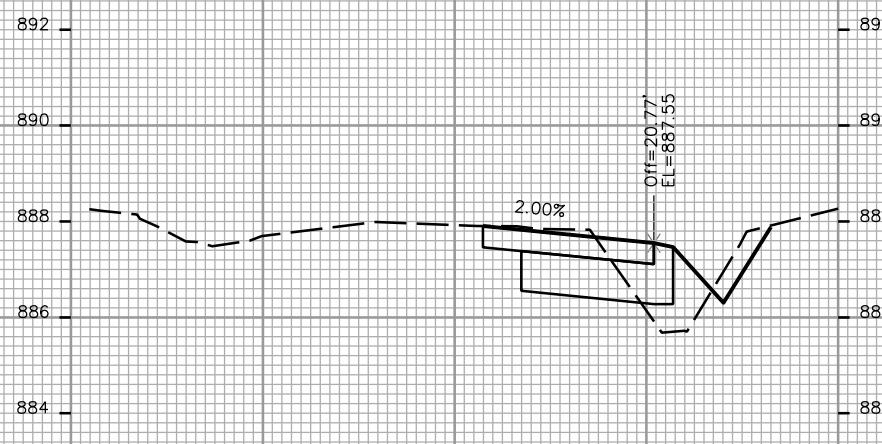
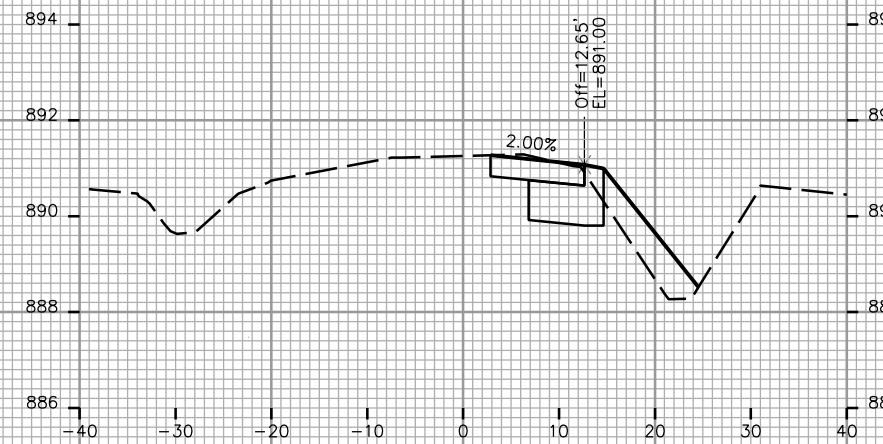
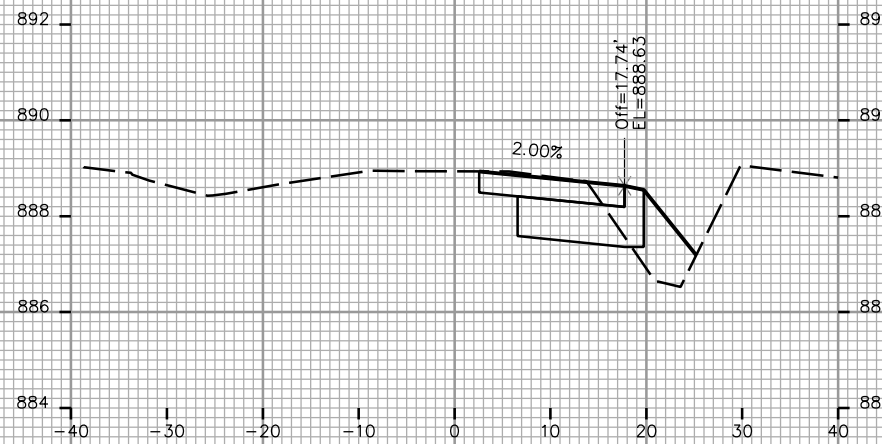


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