



Madison, Wisconsin
INDEX OF SHEETS - STREETS

SHEET NO.	GENERAL NOTES
D1	GENERAL NOTES
D2-D3	DETAILS
P1-P2	STREET PLAN & PROFILES
U1-U5	UTILITY PLAN & PROFILES
U6	SANITARY SEWER SCHEDULE
U7	STORM SEWER SCHEDULE
1	EROSION CONTROL PLAN
2-4	STORM SEWER EXTENSION PLAN & PROFILE
W1-W3	WATER PLAN & PROFILES
W4	WATER ESTIMATE OF MATERIALS
X1-X6	CROSS SECTIONS

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

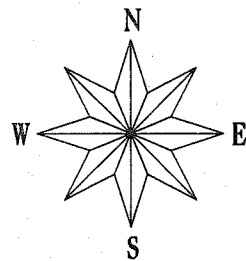
PLAN OF PROPOSED IMPROVEMENT

TENNYSON LANE CSM - PHASE 1

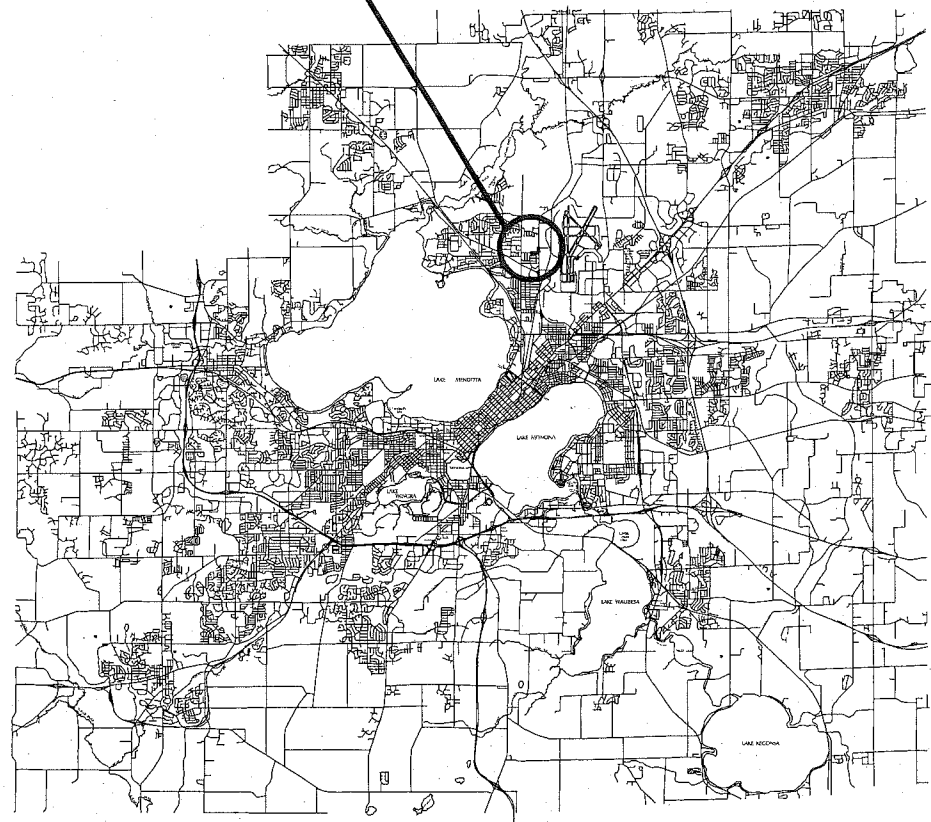
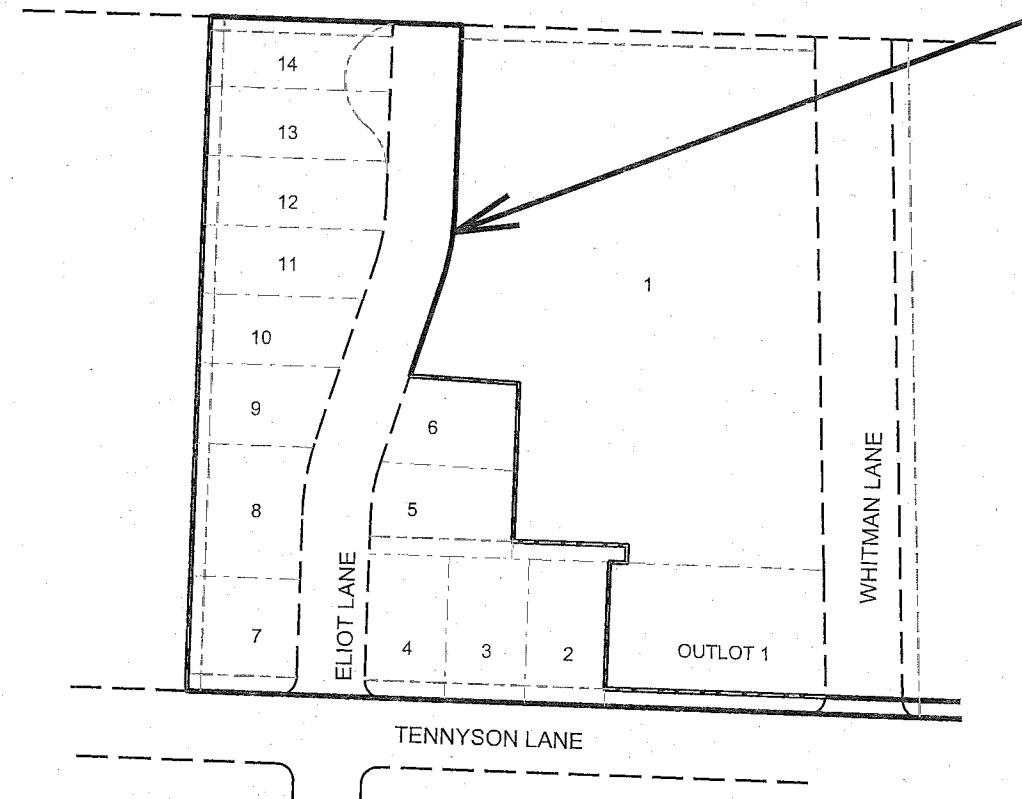
CITY PROJECT NO. 53B2409

CITY CONTRACT NO. 2409

MUNIS NO. 10227



PROJECT LOCATION



PUBLIC IMPROVEMENT PROJECT APPROVED

DECEMBER 2, 2014

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

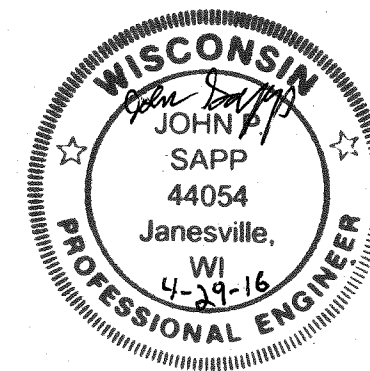
PUBLIC IMPROVEMENT DESIGN APPROVED BY:

[Signature] 5/3/16
City Engineer Date

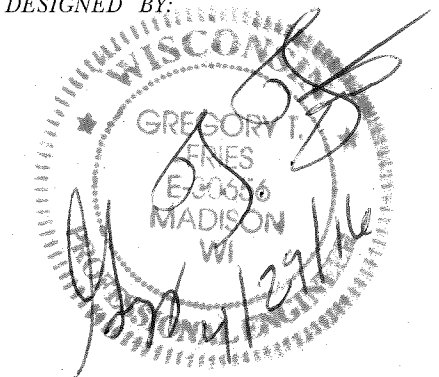
STORM SEWER EXTENSION DESIGNED BY:

SEE INDIVIDUAL SHEETS

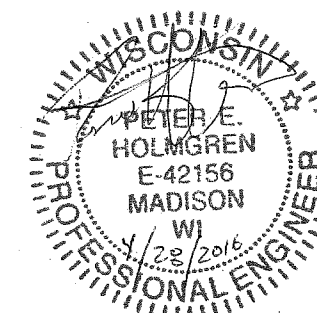
STREET DESIGNED BY:



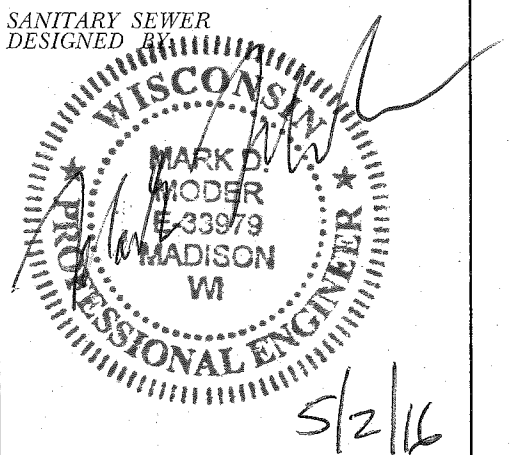
STORM SEWER DESIGNED BY:



WATER DESIGNED BY:



SANITARY SEWER DESIGNED BY:



PSCALE:

PNAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

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, REFERRING TO NOTIFICATION OF PROPERTY OCCUPANTS AND/OR OWNERS, HAS BEEN COMPLIED WITH.

CONTRACTOR/DEVELOPER SHALL SUBMIT A TRAFFIC CONTROL PLAN TO CITY TRAFFIC ENGINEERING AT LEAST 10 WORKING DAYS PRIOR TO THE START OF WORK. WORK WITHIN THE RIGHT-OF-WAY SHALL NOT BEGIN UNTIL THE TRAFFIC CONTROL PLAN IS APPROVED.

ANY PAVEMENT MARKINGS THAT ARE REMOVED OR DAMAGED SHALL BE REPLACED BY THE DEVELOPER/CONTRACTOR AS DIRECTED BY CITY TRAFFIC ENGINEERING.

ALL PAVEMENT IN THE ELIOT LANE RIGHT-OF-WAY SHALL BE TYPE A PAVEMENT PER STANDARD DETAIL DRAWING 4.02.

ALL PAVEMENT IN THE TENNYSON LANE RIGHT-OF-WAY SHALL BE TYPE B PAVEMENT PER STANDARD DETAIL DRAWING 4.02.

UNDERDRAINS SHALL BE INSTALLED, PER STANDARD DETAIL DRAWING 4.05 FOR 75' ON EACH SIDE OF THE LOW POINT, OR TO THE NEAREST CURB HIGH POINT. ALL UNDERDRAIN SHALL BE WRAPPED.

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

ALL DITCHES SHALL DRAIN WITH A MINIMUM GRADES OF 0.5%

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. 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.

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 

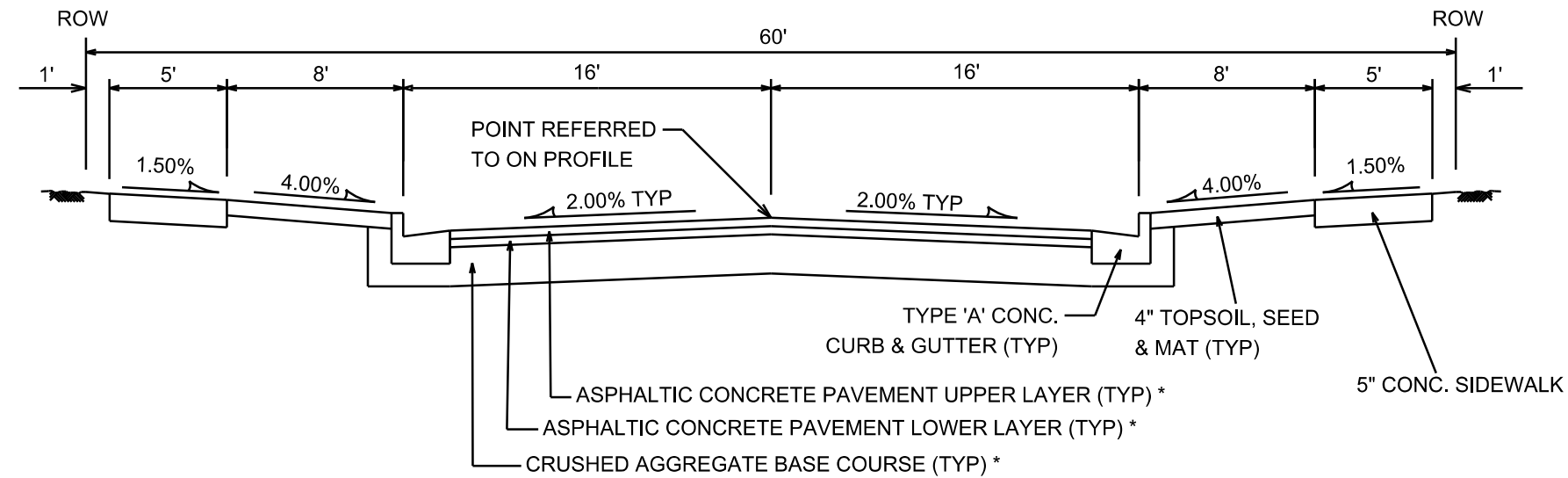
COMBUSTIBLE FLUIDS 

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



TYPICAL SECTION

ELIOT LANE
STA 11+93 TO STA 16+73
NOT TO SCALE

* CITY OF MADISON MINIMUM PAVEMENT DESIGN

TYPE	CRUSHED AGG. BASE COURSE		ASPHALTIC CONCRETE PAVEMENT			
	LOWER LAYER GRADATION 1	UPPER LAYER GRADATION 2	LOWER LAYER TYPE	LOWER LAYER THICKNESS	UPPER LAYER TYPE	UPPER LAYER 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"

NOTES:

* TYPE 'A' PAVEMENT SHALL BE USED ON ELIOT LANE.

** SEE CROSS SECTIONS FOR OFFSETS, GRADES AND SLOPES.

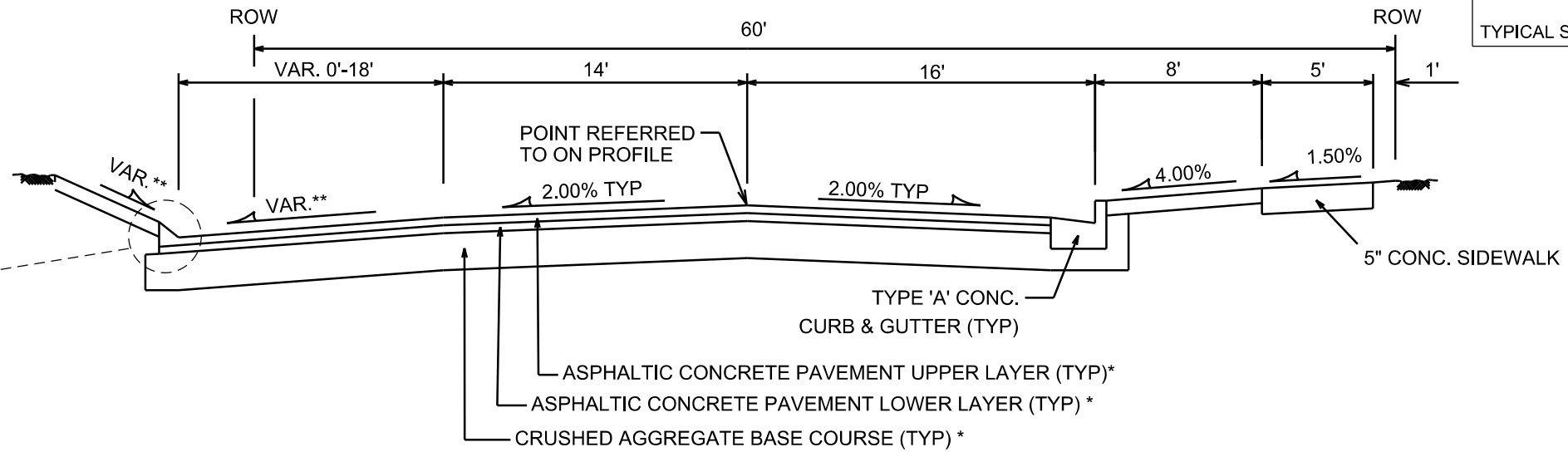
*** INSTALL CARLSON SCREED RAISED PAVEMENT EDGE WITH ASPHALT PAVEMENT.

PLOT SCALE: _____

PLOT NAME: _____

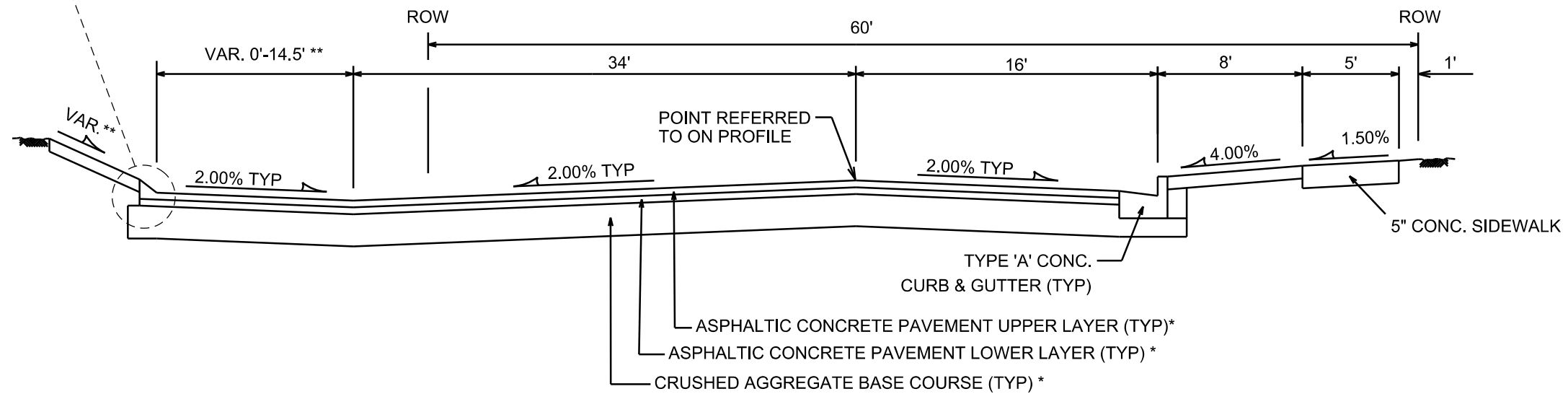
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



TYPICAL SECTION

ELIOT LANE TEMPORARY TURNAROUND
STA 16+73 TO STA 17+23
NOT TO SCALE



TYPICAL SECTION

ELIOT LANE TEMPORARY TURNAROUND
STA 17+23 TO STA 17+65
NOT TO SCALE

"CARLSON SCREED" RAISED
PAVEMENT EDGE***
NOT TO SCALE

* CITY OF MADISON MINIMUM PAVEMENT DESIGN

TYPE	CRUSHED AGG. BASE COURSE		ASPHALTIC CONCRETE PAVEMENT			
	LOWER LAYER GRADATION 1	UPPER LAYER GRADATION 2	LOWER LAYER TYPE THICKNESS	UPPER LAYER TYPE THICKNESS	UPPER 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"

NOTES:

* TYPE 'A' PAVEMENT SHALL BE USED ON WHITMAN LANE.

** SEE CROSS SECTIONS FOR OFFSETS, GRADES AND SLOPES.

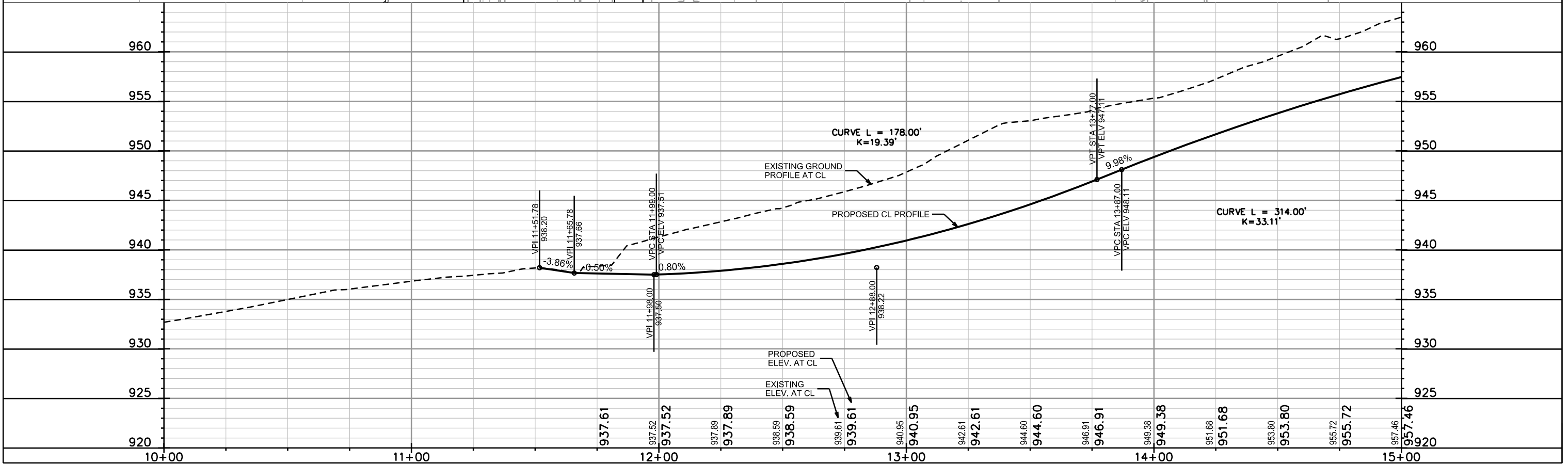
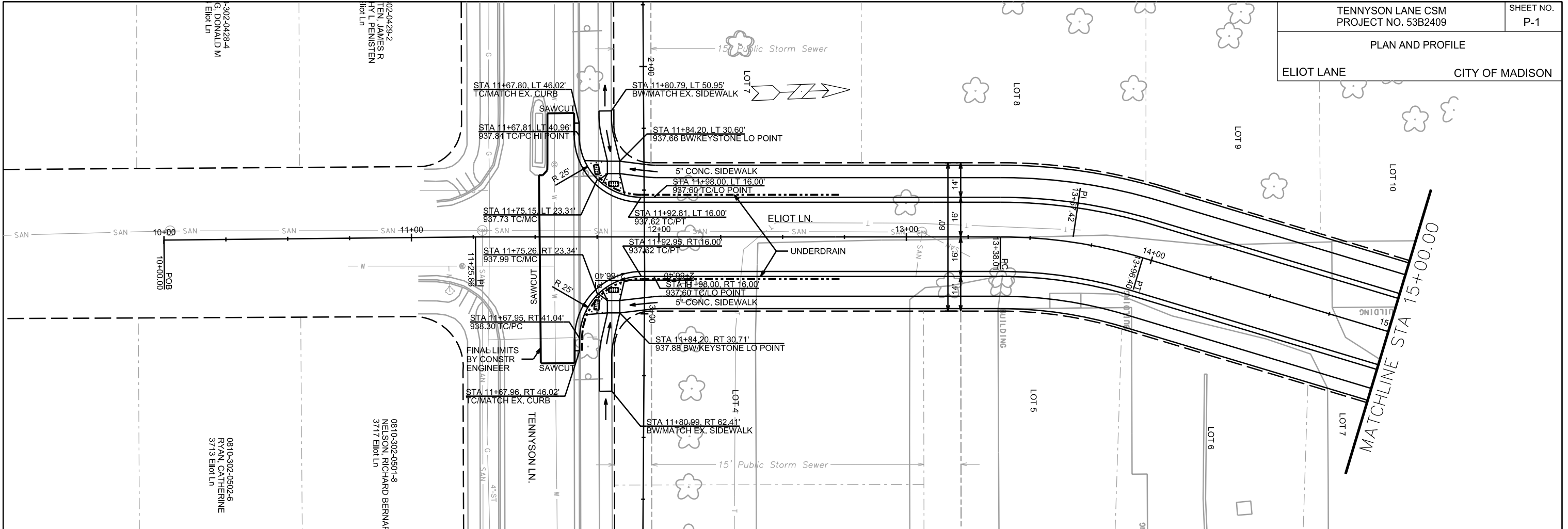
*** INSTALL CARLSON SCREED RAISED PAVEMENT EDGE WITH ASPHALT PAVEMENT.

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

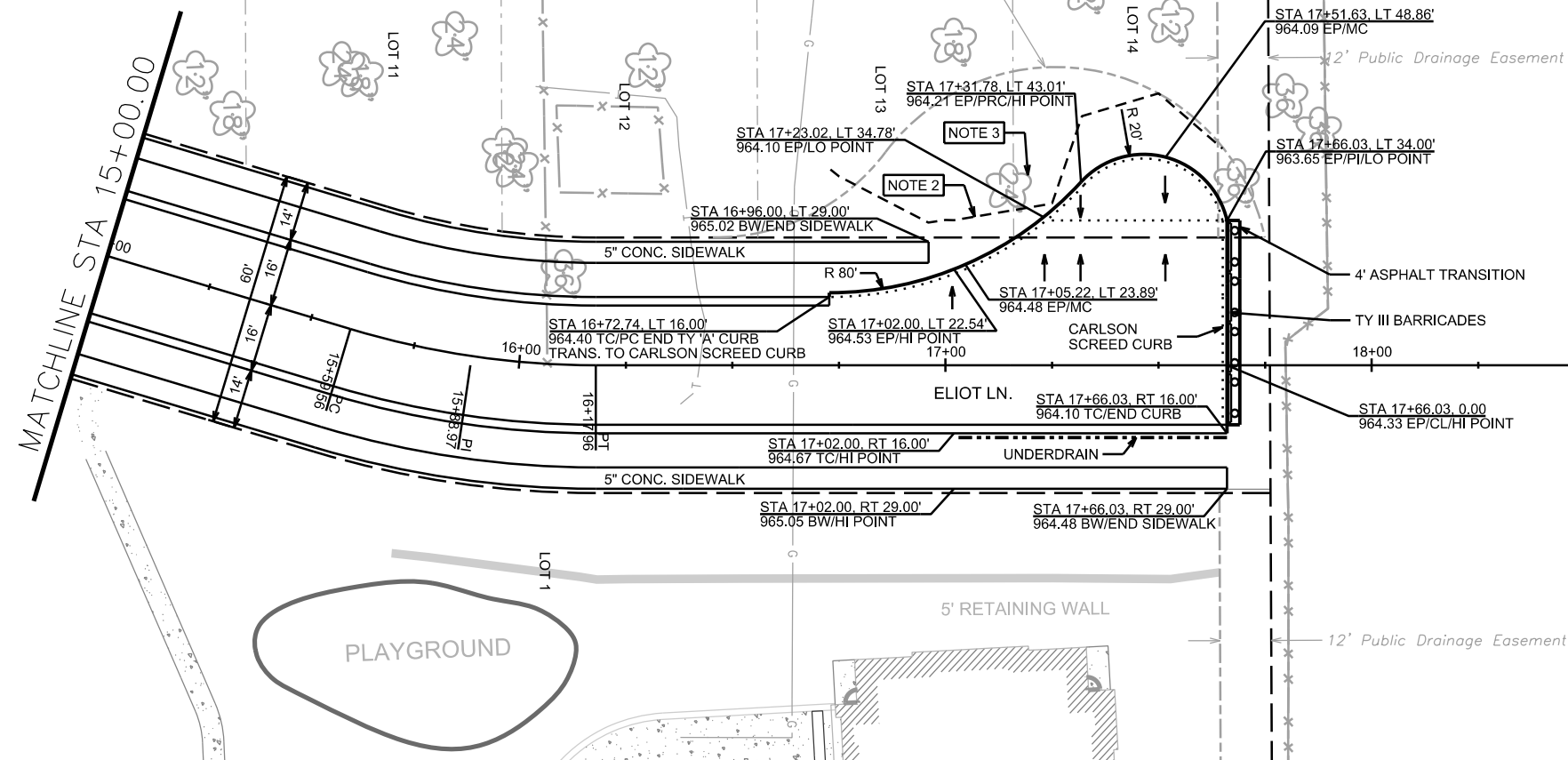


PLOT SCALE: _____

PLOT NAME: _____

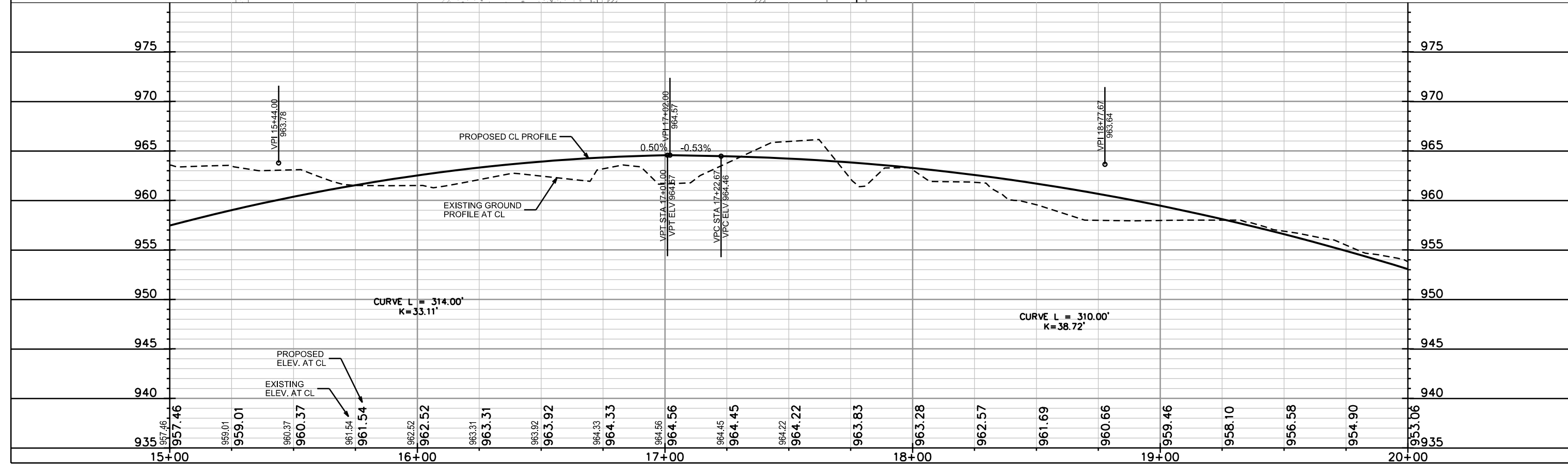
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



NOTES:

1. WITHIN THE TURNAROUND AREA FROM STA 16+72.29 TO 17+66.03 FROM THE CENTERLINE TO 14' LT OFFSET : MAINTAIN 2% CROSS SLOPE. THE FLAG OF CURB WILL BE AT THIS 14' OFFSET IN THE FUTURE. SEE CROSS SECTIONS FOR SLOPES, OFFSETS AND ELEVATIONS.
2. SLOPE INTERCEPT. SEE CROSS SECTIONS
3. PROTECT EXISTING TREE DURING CONSTRUCTION.

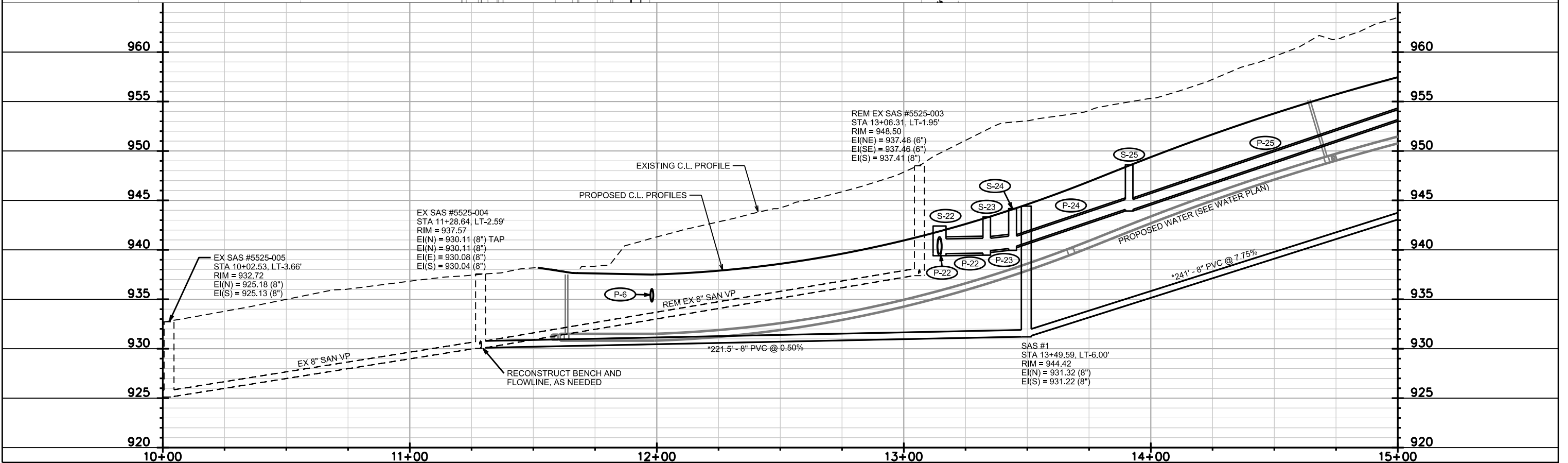
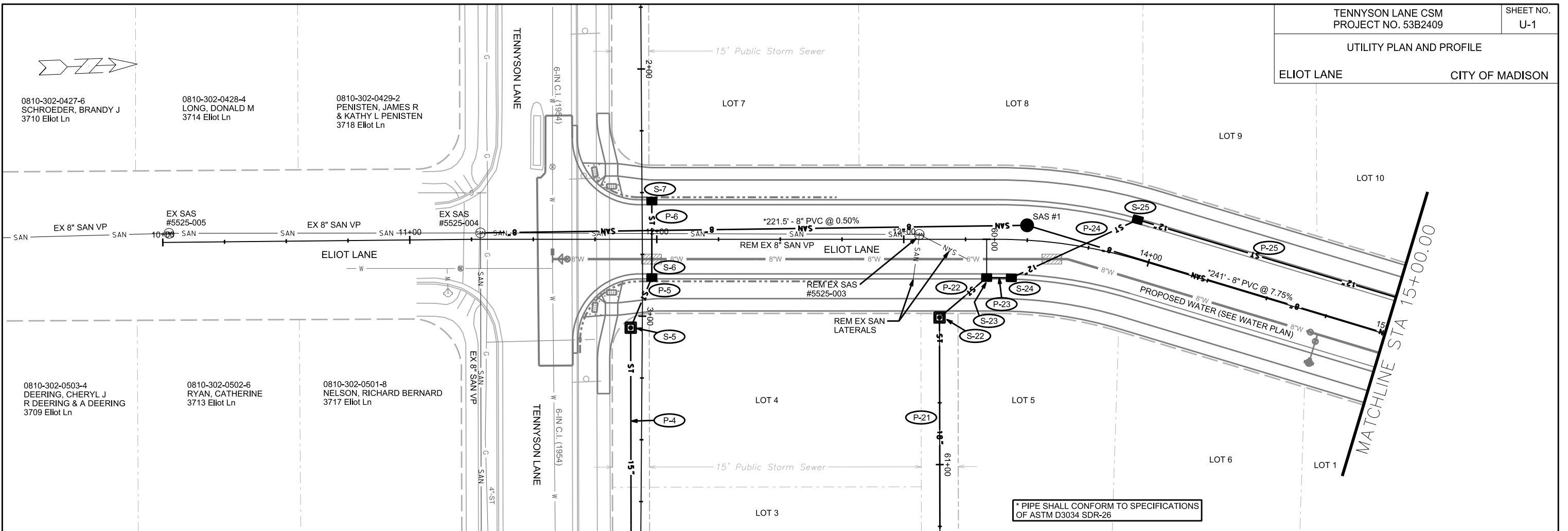


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

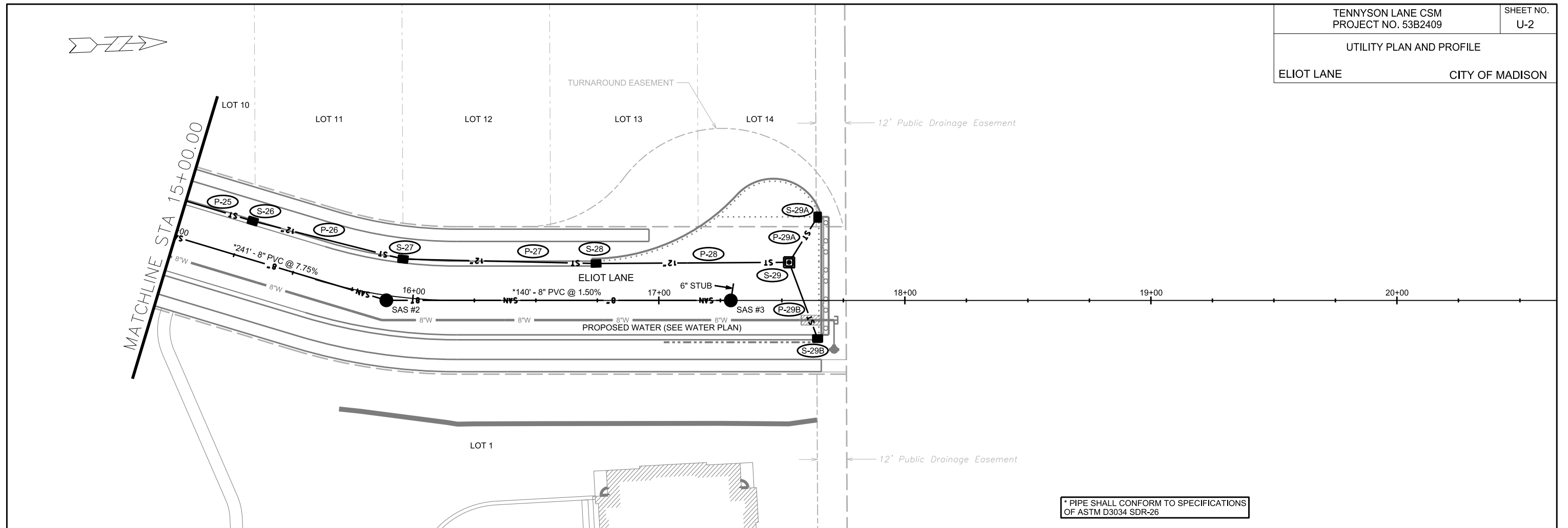


PLOT SCALE:

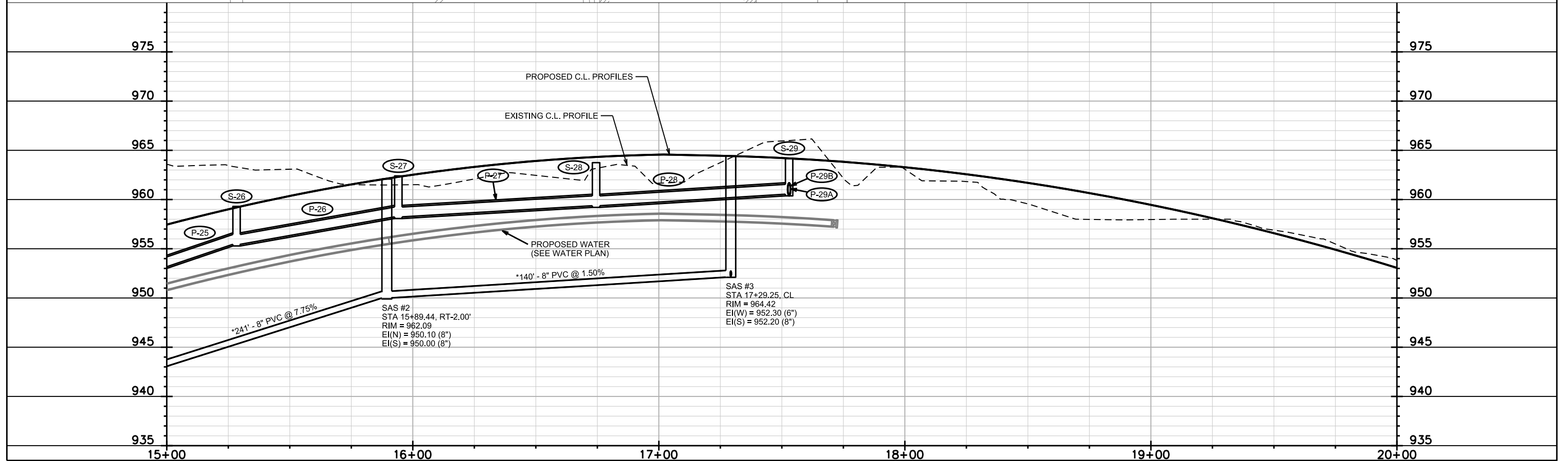
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



* PIPE SHALL CONFORM TO SPECIFICATIONS OF ASTM D3034 SDR-26

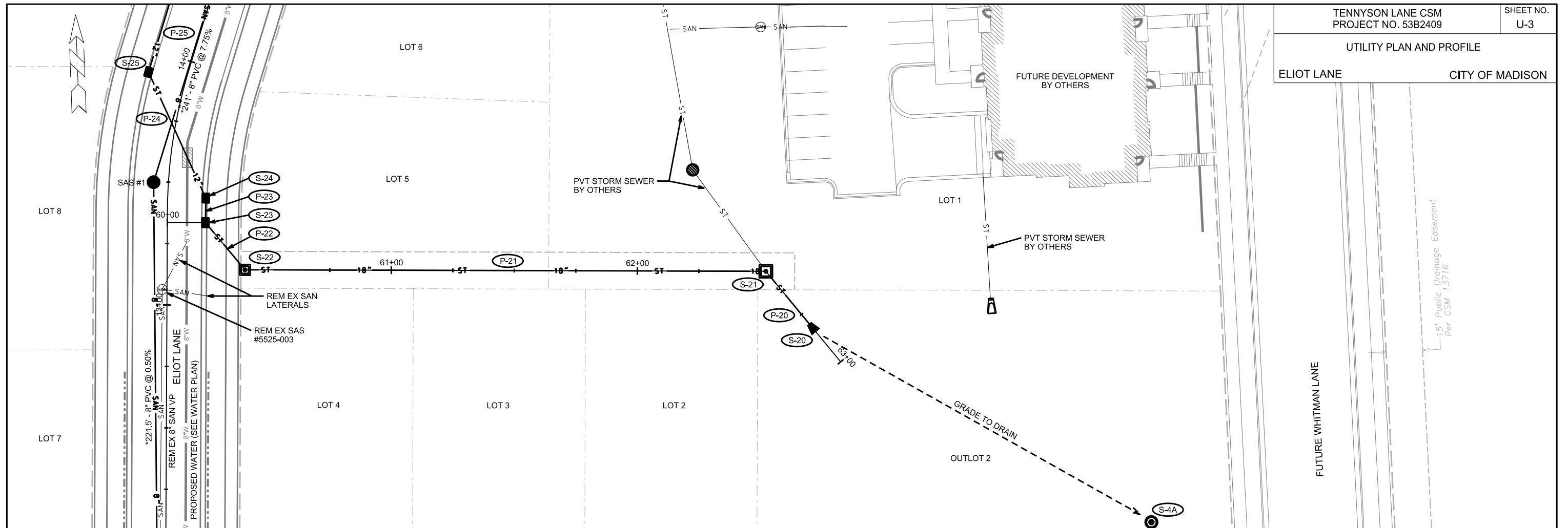


PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



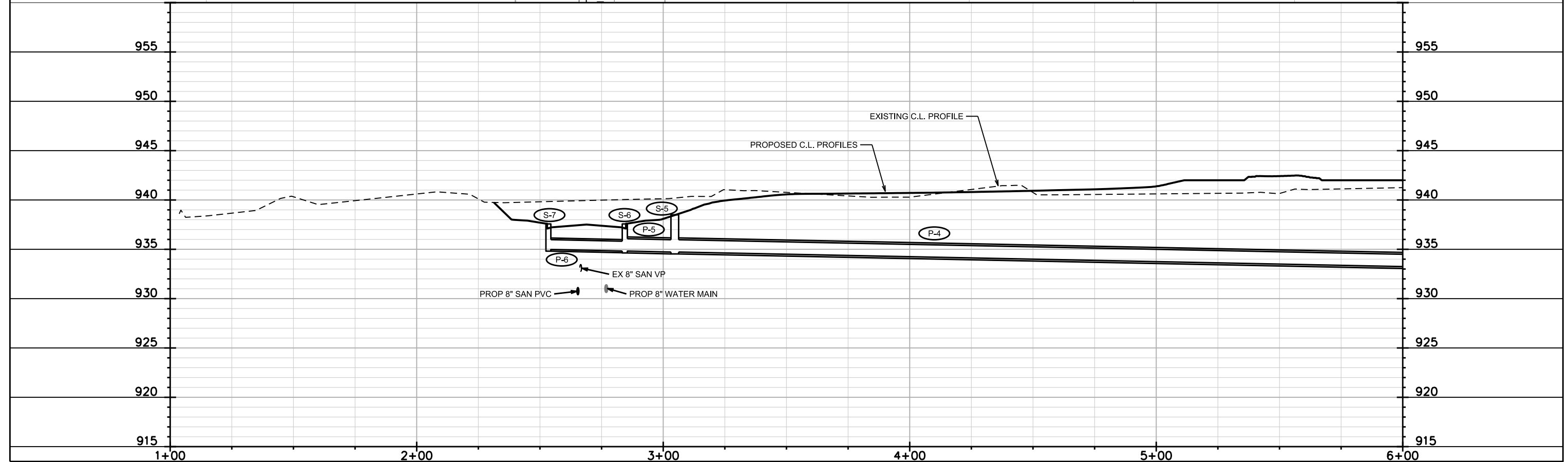
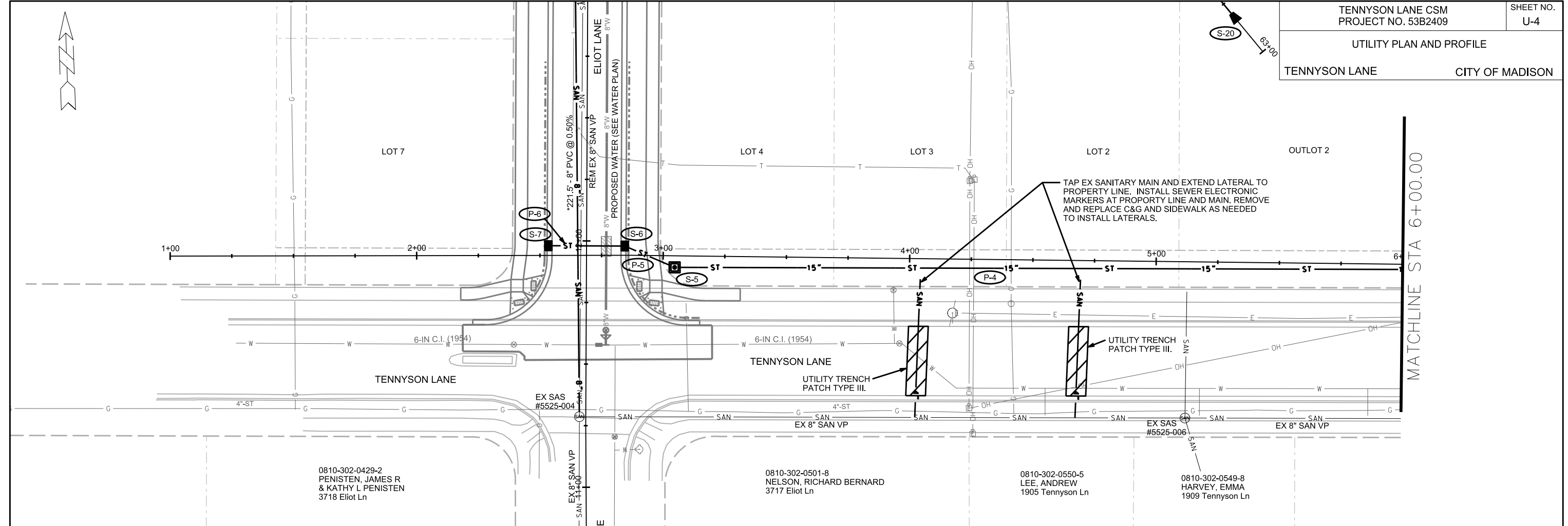
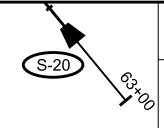
PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

UTILITY PLAN AND PROFILE
TENNYSON LANE CITY OF MADISON



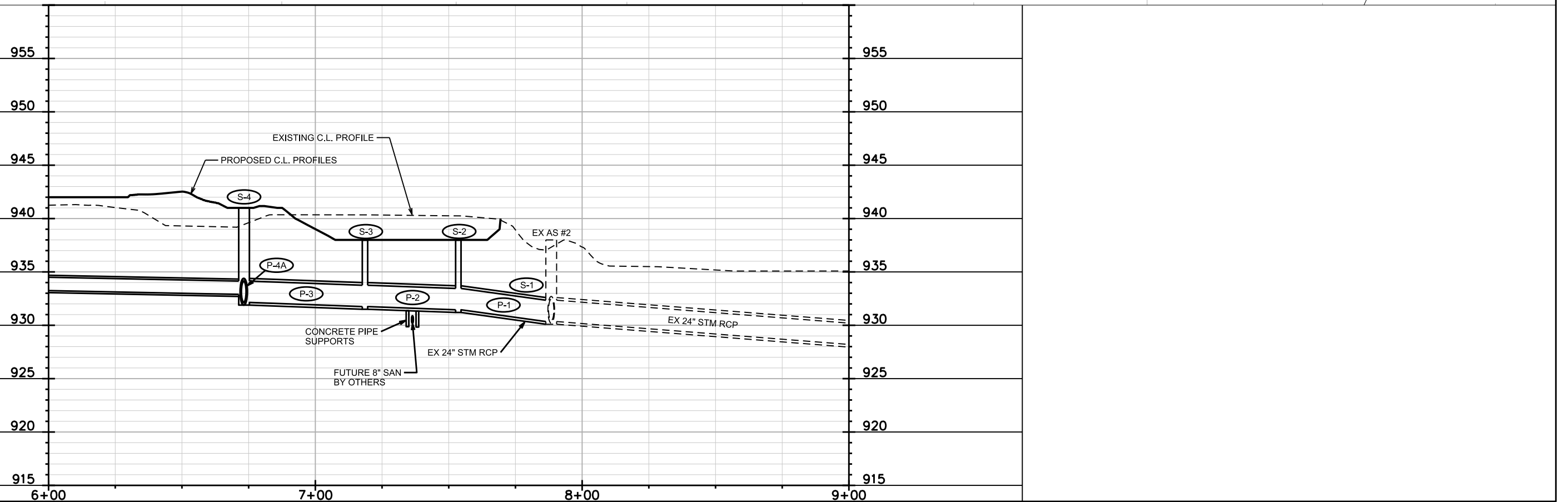
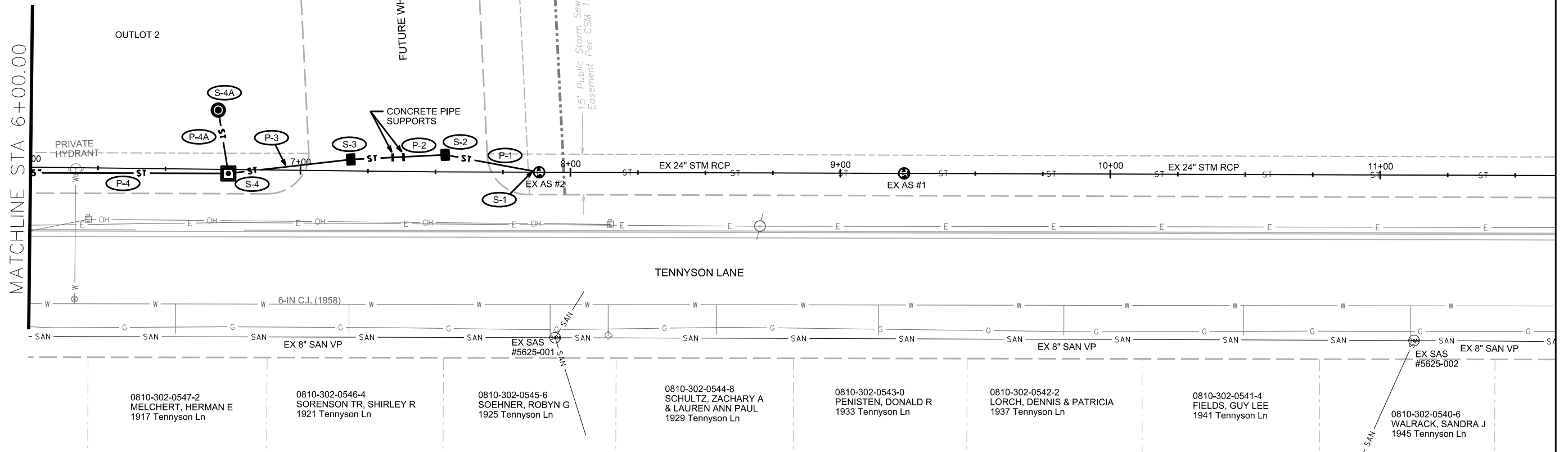
PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

MATCHLINE STA 6+00.00



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

SANITARY SEWER SCHEDULE

TENNYSON LANE CSM
PROJECT NO. 53B2409

SHEET NO.
U-6

SANITARY SEWER SCHEDULE

ELIOT LANE

CITY OF MADISON

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
ELIOT LANE						
SAS #1	13+49.59	LT-6.00	944.42	931.22	13.20	-
SAS #2	15+89.44	RT-2.00	962.09	950.00	12.09	-
SAS #3	17+29.25	CL	964.42	952.20	12.22	-

PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN (PAY) LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
ELIOT LANE								
EX SAS #5525-004	SAS #1	930.11	931.22	221.5	0.50%	8"	SDR-26	-
SAS #1	SAS #2	931.32	950.00	241	7.75%	8"	SDR-26	-
SAS #2	SAS #3	950.10	952.20	140	1.50%	8"	SDR-26	-

REMOVE SANITARY STRUCTURES

STRUC. ID NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
ELIOT LANE						
EX SAS #5525-003	13+06.31	LT-1.95	948.50	937.41	11.09	-

REMOVE SANITARY PIPES

REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
ELIOT LANE						
EX SAS #5525-004	EX SAS #5525-003	178	8"	VP	N	-

SPECIFIC NOTES

STORM SEWER SCHEDULE

STORM SEWER SCHEDULE

ELIOT LANE CITY OF MADISON

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
ELIOT LANE							
S-6	11+98.00	RT-15.50	H INLET	937.57	934.82	2.75	(2), FP, LP, UD, W/R-3067-7004-VB
S-7	11+98.00	LT-15.50	H INLET	937.57	934.98	2.59	(2), FP, LP, UD, W/R-3067-7004-VB
S-23	13+33.57	RT-15.50	H INLET	943.33	939.67	3.66	FP, W/R-3067-7004-V
S-24	13+44.04	RT-15.50	H INLET	944.17	940.13	4.04	W/R-3067-7004-V
S-25	13+91.24	LT-15.50	H INLET	948.61	944.09	4.52	W/R-3067-7004-V
S-26	15+28.36	LT-15.50	H INLET	959.30	955.45	3.85	W/R-3067-7004-V
S-27	15+94.11	LT-15.50	H INLET	962.40	958.24	4.16	W/R-3067-7004-V
S-28	16+74.49	LT-15.00	H INLET	963.75	959.37	4.38	W/R-1878-B7G
S-29	17+52.96	LT-15.50	3X3 SAS	964.18	960.54	3.64	W/R-1550-0054
S-29A	17+64.53	LT-33.88	H INLET	963.65	960.64	3.01	LP, W/R-3067-7004-VB
S-29B	17+64.53	RT-15.50	H INLET	964.10	960.71	3.39	UD, W/R-3067-7004-VB
LOT 4 & 5 EASEMENT							
S-20	62+89.50	CL	21" RCP AE	-	938.90	-	W/GATE
S-21	62+57.50	CL	4X4 SAS	943.40	938.99	4.41	W/R-1550-0054
S-22	60+45.76	CL	3X3 SAS	942.41	939.61	2.80	FP, W/R-1550-0054
TENNYSON LANE							
S-1	7+88.42	CL	STM TAP	-	930.35	-	-
S-2	7+53.59	LT-6.32	H INLET	937.98	931.45	6.53	W/R-3067-7004-VB
S-3	7+18.60	LT-4.22	H INLET	937.98	931.75	6.23	W/R-3067-7004-VB
S-4	6+73.28	RT-1.47	4X4 SAS	941.01	932.14	8.87	W/R-1550-0054
S-4A	6+69.31	LT-21.93	4' DIA SAS	940.19	932.43	7.76	W/R-1550-2578
S-5	3+04.70	RT-4.68	3X3 SAS	938.50	934.72	3.78	W/R-1550-0054

PROPOSED STORM 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
ELIOT LANE										
P-6	S-6	S-7	934.82	934.98	31	29	0.55%	12"	RCP	-
P-22	S-22	S-23	939.61	939.67	25	21.5	0.28%	18"	TYPE II	-
P-23	S-23	S-24	939.92	940.13	10	7	3.00%	15"	TYPE II	-
P-24	S-24	S-25	940.38	944.09	56.5	53	7.00%	12"	TYPE II	-
P-25	S-25	S-26	944.09	955.45	137.5	134.5	8.45%	12"	TYPE II	-
P-26	S-26	S-27	955.45	958.24	63	60	4.65%	12"	TYPE II	-
P-27	S-27	S-28	958.24	959.37	78.5	75.5	1.50%	12"	TYPE II	-
P-28	S-28	S-29	959.37	960.54	78.5	75.5	1.55%	12"	TYPE II	-
P-29A	S-29	S-29A	960.54	960.64	22	18.2	0.55%	12"	TYPE II	-
P-29B	S-29	S-29B	960.54	960.71	33	30.4	0.56%	12"	TYPE II	-
LOT 4 & 5 EASEMENT										
P-20	S-20	S-21	938.90	938.99	32	29.4	0.31%	21"	RCP	(1)
P-21	S-21	S-22	938.99	939.61	212	208.2	0.30%	18"	RCP	-
TENNYSON LANE										
P-1	EX AS #2	S-2	930.35	931.45	35.5	32.3	3.41%	24"	TYPE II	-
P-2	S-2	S-3	931.45	931.75	35	33	0.91%	24"	TYPE II	-
P-3	S-3	S-4	931.75	932.14	46	42.7	0.91%	24"	TYPE II	-
P-4	S-4	S-5	932.89	934.72	368.5	365.1	0.50%	15"	TYPE II	-
P-4A	S-4	S-4A	932.14	932.43	24	19.7	1.47%	24"	TYPE II	-
P-5	S-5	S-6	934.72	934.82	22	19.3	0.52%	15"	TYPE II	-

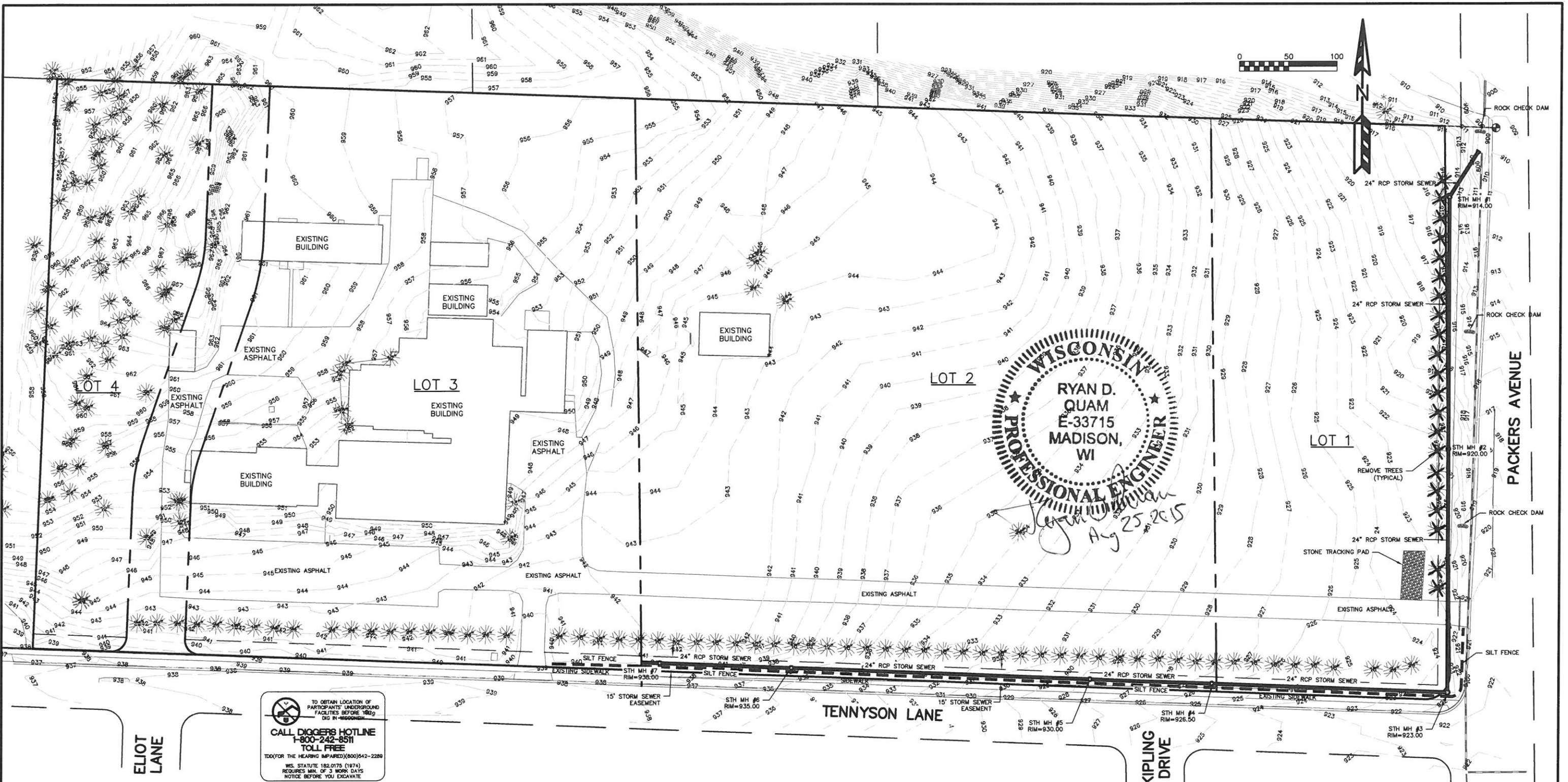
NOTE: PLAN LENGTH (PAY LENGTH) IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. PIPE LENGTH IS ACTUAL LENGTH OF PIPE FROM STRUCTURE WALL TO STRUCTURE WALL. SLOPE CALCULATED USING PIPE LENGTH.

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 KYLE FRANK OF CITY ENGINEERING AT (608) 266-4098 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO KFRANK@CITYOFMADISON.COM.

SPECIFIC NOTES

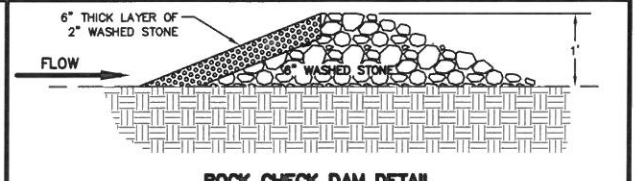
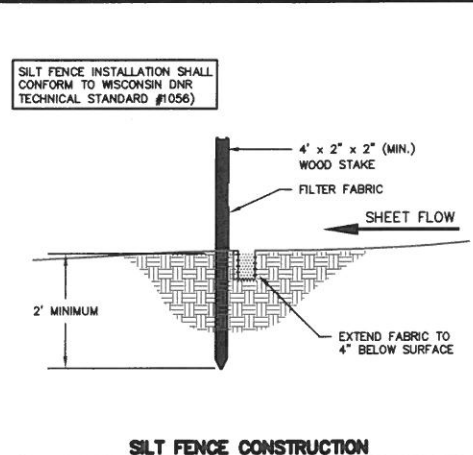
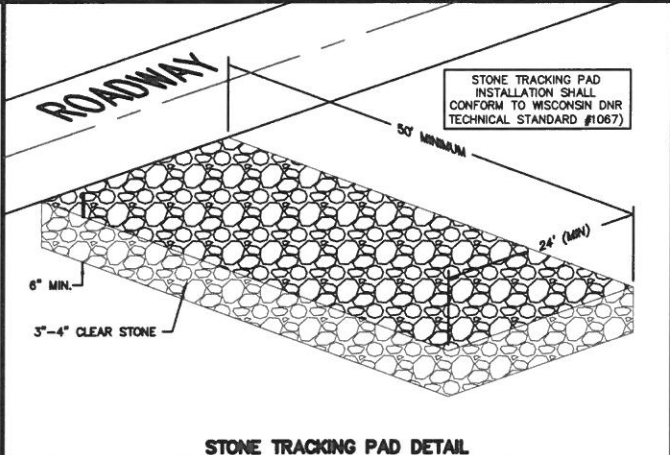
- (1) PLAN AND PIPE LENGTH INCLUDES THE LENGTH OF THE APRON ENDWALL.
- (2) TAP 2" PVC PIPE INTO THE FRONT OF THE INLET AND ELBOW PIPE UP TO THE TOP OF BINDER LAYER. PIPE SHALL SURFACE IN FRONT OF CURB.



TO OBTAIN LOCATION OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE DIGGING
CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE
 TDD (FOR THE HEARING IMPAIRED) (800) 542-2288
 WIS. STATUTE 182.0175 (1974)
 REQUIRES MIN. OF 3 WORK DAYS
 NOTICE BEFORE YOU EXCAVATE

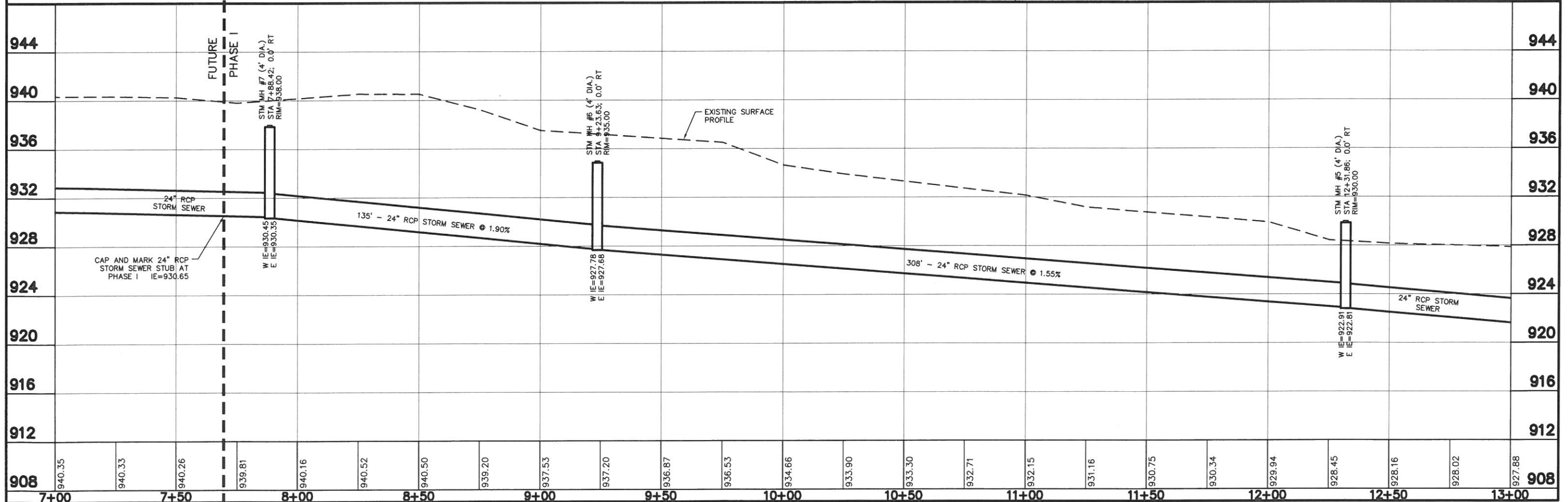
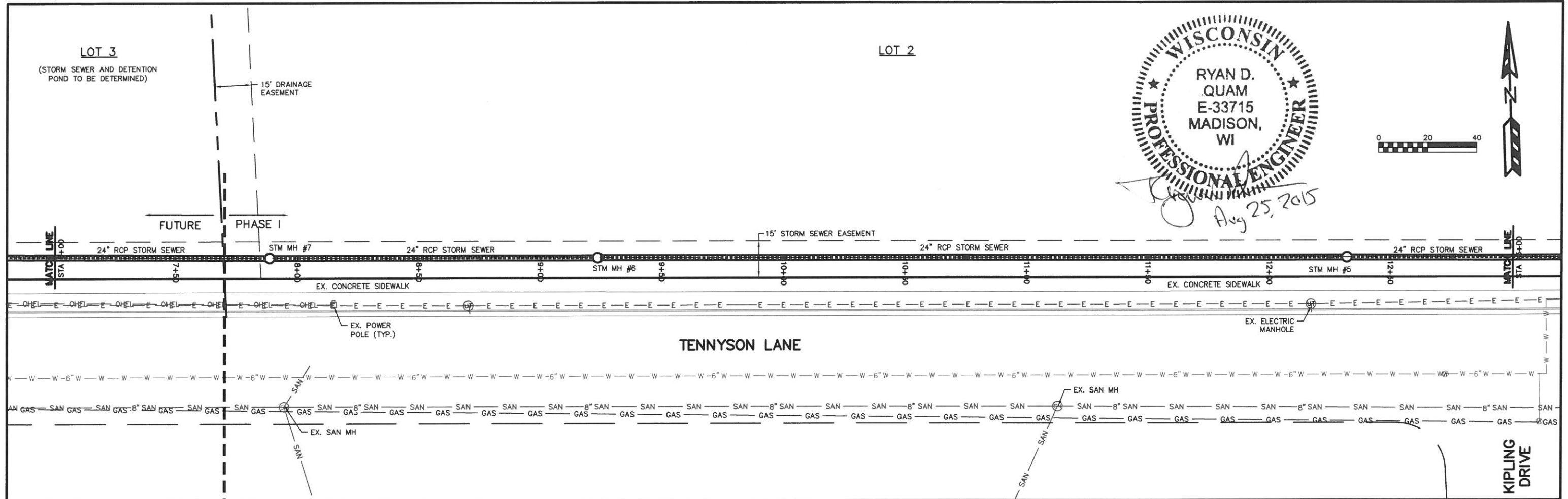
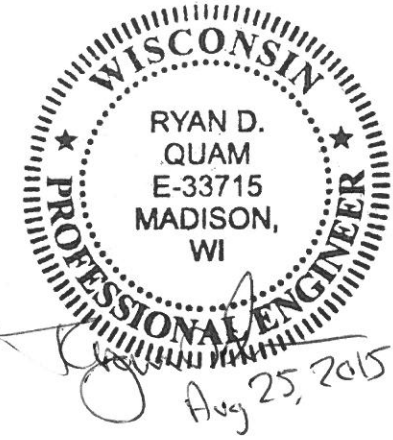
EROSION NOTES:
 THE STONE TRACKING PAD SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION. THE TRACKING PAD IS TO BE MAINTAINED BY THE CONTRACTOR IN A CONDITION WHICH WILL PREVENT THE TRACK OF MUD OR DRY SEDIMENT ONTO THE ADJACENT PUBLIC STREETS. SEDIMENT REACHING THE PUBLIC ROAD SHALL BE REMOVED BY STREET CLEANING (NOT HYDRAULIC FLUSHING) BEFORE THE END OF EACH WORKDAY.
 EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO GRADING OPERATIONS AND SHALL BE PROPERLY MAINTAINED FOR MAXIMUM EFFECTIVENESS UNTIL VEGETATION IS ESTABLISHED. ALL EROSION CONTROL MEASURES AND STRUCTURES SERVING THE SITE MUST BE INSPECTED AT LEAST WEEKLY OR WITHIN 24 HOURS OF A 0.5 INCH RAIN EVENT. ALL MAINTENANCE WILL FOLLOW AN INSPECTION WITHIN 24 HOURS.
 EROSION CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ACCEPTANCE OF THIS PROJECT. EROSION CONTROL MEASURES AS SHOWN SHALL BE THE MINIMUM PRECAUTIONS THAT WILL BE ALLOWED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECOGNIZING AND CORRECTING ALL EROSION CONTROL PROBLEMS THAT ARE A RESULT OF CONSTRUCTION ACTIVITIES. ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED IN WRITING BY THE STATE OR LOCAL INSPECTORS, OR THE DEVELOPER'S ENGINEER, SHALL BE INSTALLED WITHIN 24 HOURS.
 SOIL STOCKPILES: A ROW OF SILT FENCE PLACED DOWNSLOPE AND AT LEAST 10 FEET AWAY FROM THE STOCKPILE SHALL PROTECT ALL STOCKPILES. SOIL STOCKPILES THAT ARE INACTIVE FOR MORE THAN 30 CONSECUTIVE DAYS SHALL BE STABILIZED WITH SEED & MULCH, EROSION MAT, POLYMER, OR COVERED WITH TARPS OR SIMILAR MATERIAL. NO STOCKPILE SHALL BE PLACED WITHIN 20 FEET OF A DRAINAGE WAY.
 ANY SOIL EROSION THAT OCCURS AFTER FINAL GRADING AND/OR THE APPLICATION OF STABILIZATION MEASURES MUST BE REPAIRED AND THE STABILIZATION WORK REDONE.
 FOR ANY DISTURBED AREA THAT REMAINS INACTIVE FOR GREATER THAN 7 WORKING DAYS, OR WHERE GRADING WORK EXTENDS BEYOND THE PERMANENT SEEDING DEADLINES, THE SITE MUST BE TREATED WITH TEMPORARY STABILIZATION MEASURES SUCH AS SOIL TREATMENT, TEMPORARY SEEDING AND/OR MULCHING.

TIME SCHEDULE:
 JULY 13, 2015 INSTALL INITIAL EROSION CONTROL DEVICES.
 JULY 13 - 31, 2015 CONSTRUCT STORM SEWER EXTENSION.
 AUGUST 1 - 15, 2015 COMPLETE FINAL LANDSCAPING AND RESTORE ALL PERVIOUSLY DISTURBED AREAS.
RESTORATION NOTES:
 ALL DISTURBED AREAS, EXCEPT STREET PAVEMENT, SHALL RECEIVE A MINIMUM OF FOUR (4) INCHES OF TOPSOIL, FERTILIZER, SEED AND MULCH. RESTORATION WILL OCCUR WITHIN 3 WORKING DAYS AFTER FINAL GRADING. LAWN AREAS WITH SLOPES GREATER THAN 3:1 SHALL BE SEEDDED WITH OLDS "NOMOW" MIX OR EQUAL. ALL OTHER DISTURBED AREAS SHALL BE SEEDDED WITH MADISON PARKS MIX OR EQUAL. MIXTURES SHALL BE IN ACCORDANCE WITH SECTION 630 OF D.O.T. SPECIFICATIONS. AN EQUAL AMOUNT OF ANNUAL RYEGRASS SHALL BE ADDED TO THE MIX. SEED MIXTURES SHALL BE APPLIED AT THE RATE OF FOUR (4) POUNDS PER 1,000 SQUARE FEET. FERTILIZER SHALL BE APPLIED AT THE RATE OF FOUR (4) POUNDS PER 1,000 SQUARE FEET. FERTILIZER SHALL MEET THE MINIMUM REQUIREMENTS THAT FOLLOW: NITROGEN, NOT LESS THAN 16%; PHOSPHORIC ACID, NOT LESS THAN 6%; POTASH, NOT LESS THAN 6%.
OWNER:
 KELLER REAL ESTATE GROUP
 ATTN: KEVIN PARISH
 448 W. WASHINGTON AVE
 MADISON, WI 53703
ENGINEER:
 QUAM ENGINEERING, LLC
 ATTN: KEVIN PARISH
 544 SOUTH MAIN STREET, SUITE B
 WEST BEND, WI 53095

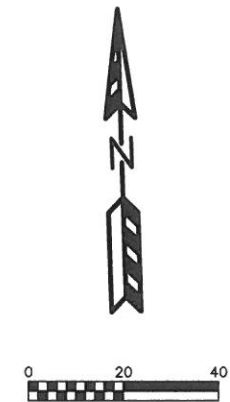
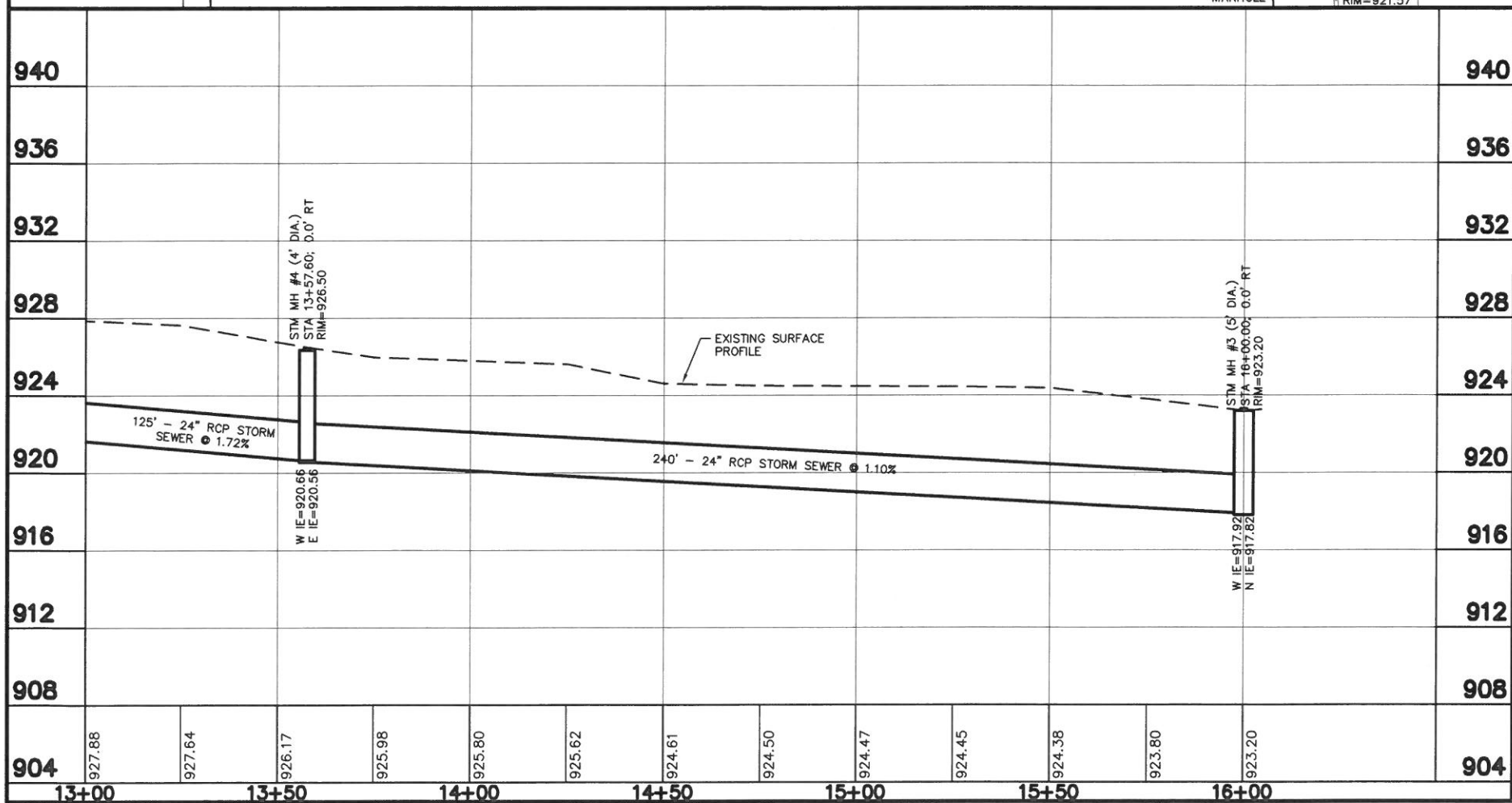
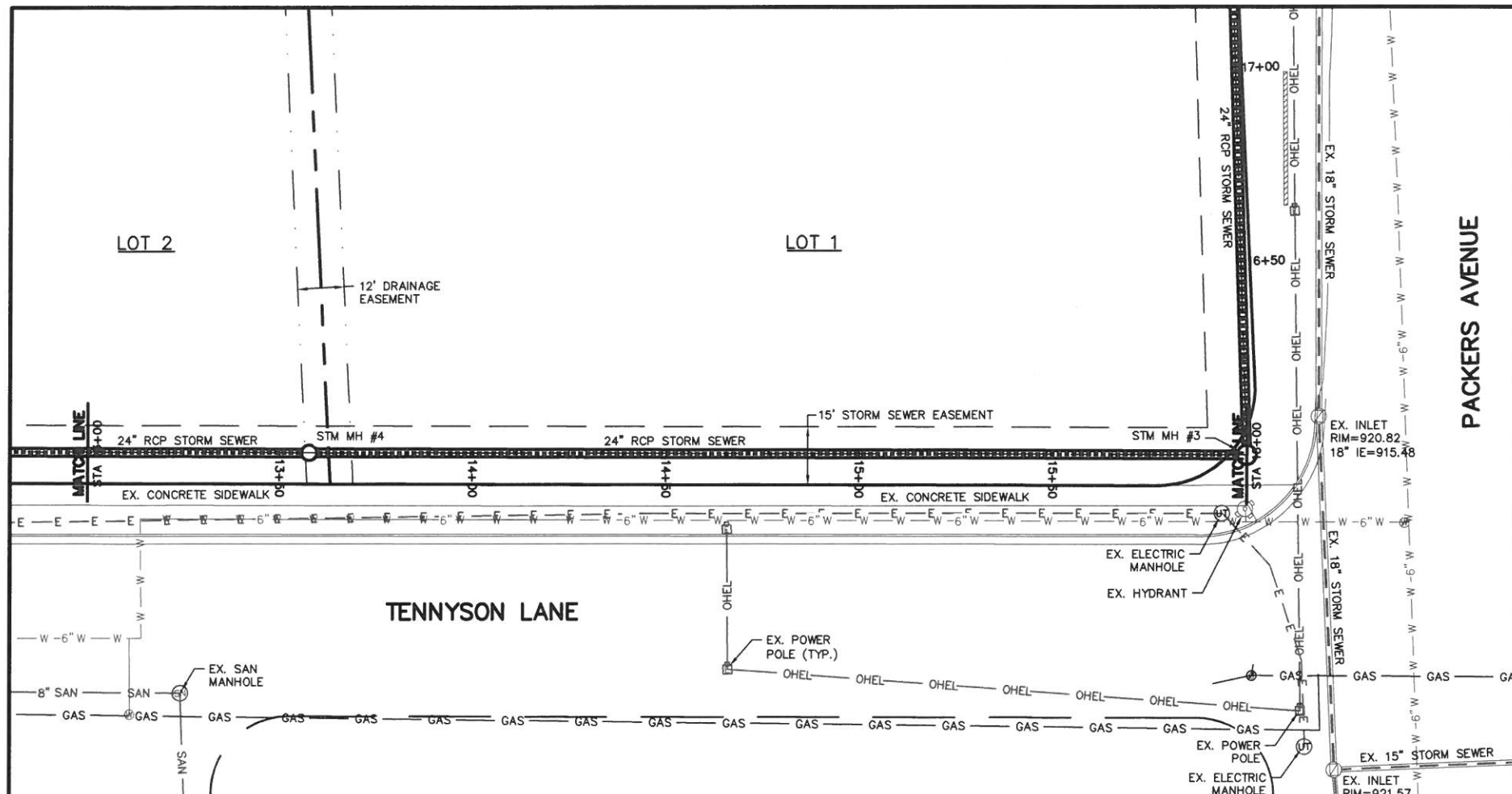


TENNYSON LANE DEVELOPMENT
 GRADING AND EROSION CONTROL PLAN
 PAGE: 1 OF 4
 DATED: JUNE 9, 2015
QUAM ENGINEERING, LLC
 Residential and Commercial Site Design Consultants
 www.quamengineering.com
 4604 Siggekkow Road, Suite A, McFarland, Wisconsin 53558
 Phone (608) 838-7750; Fax (608) 838-7752

QUAM ENGINEERING, LLC 4604 Sigelkow Road, Suite A; McFarland, WI 53558 (608) 838-7750

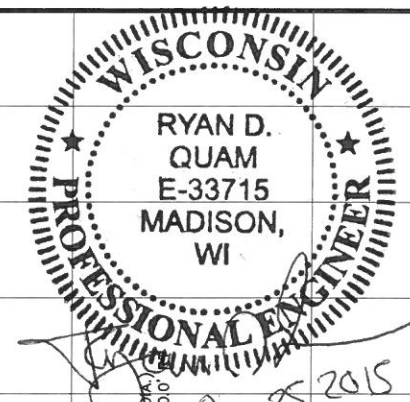
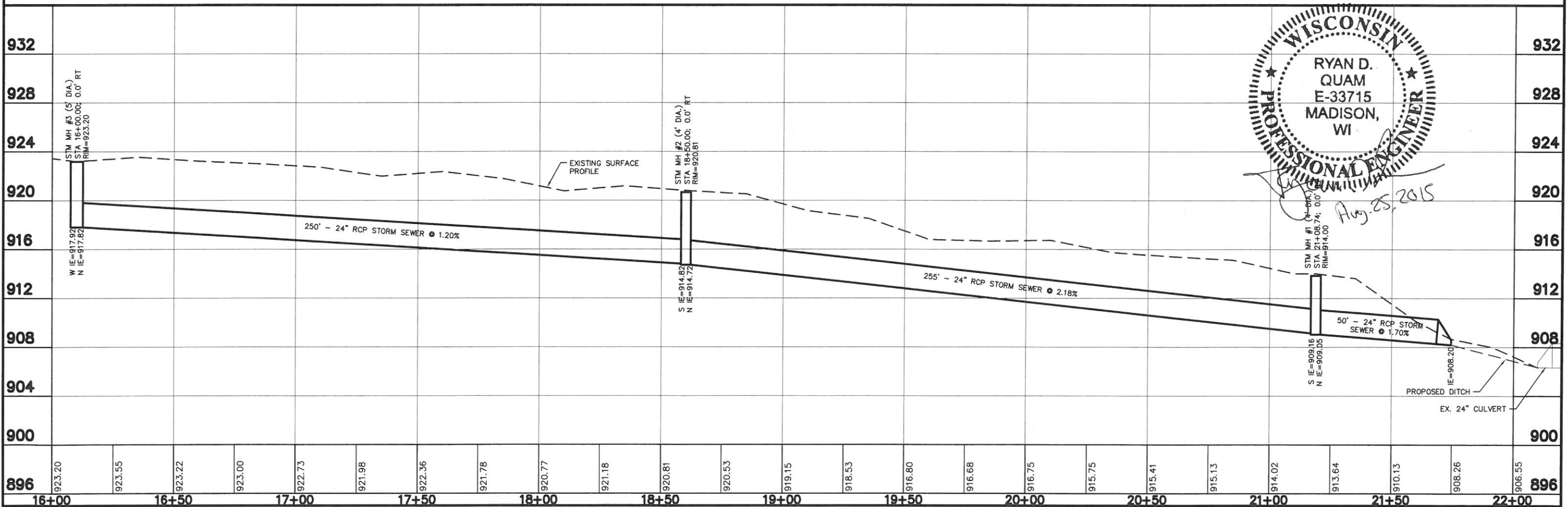
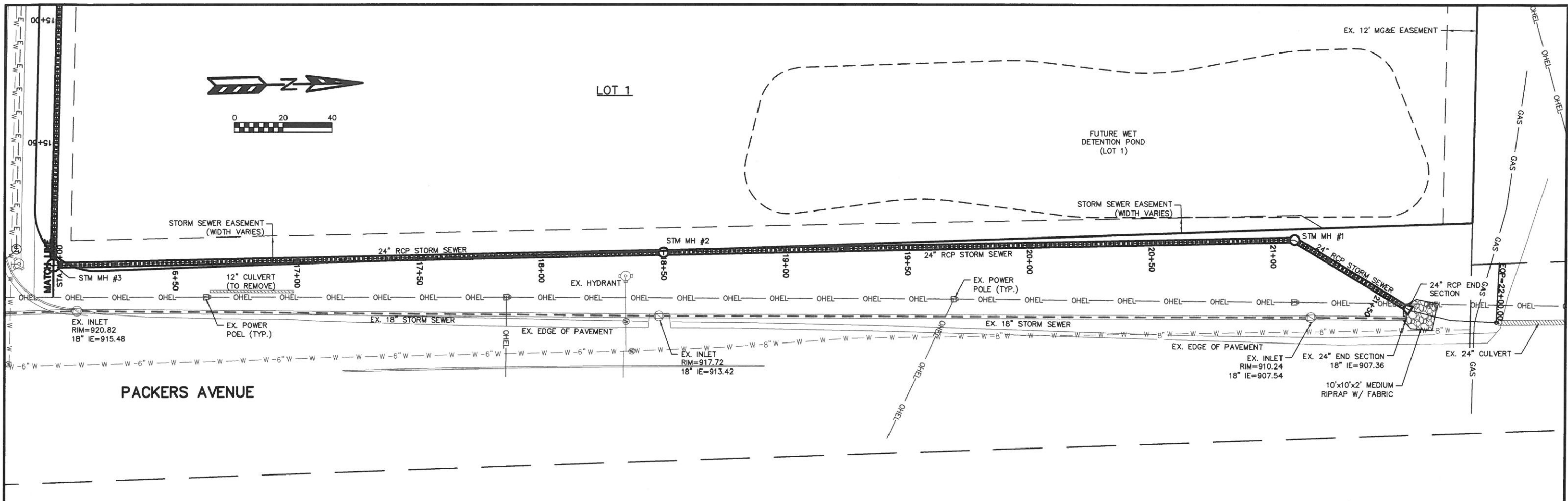


QUAM ENGINEERING, LLC 4604 Siggelkow Road, Suite A; McFarland, WI 53558 (608) 838-7750

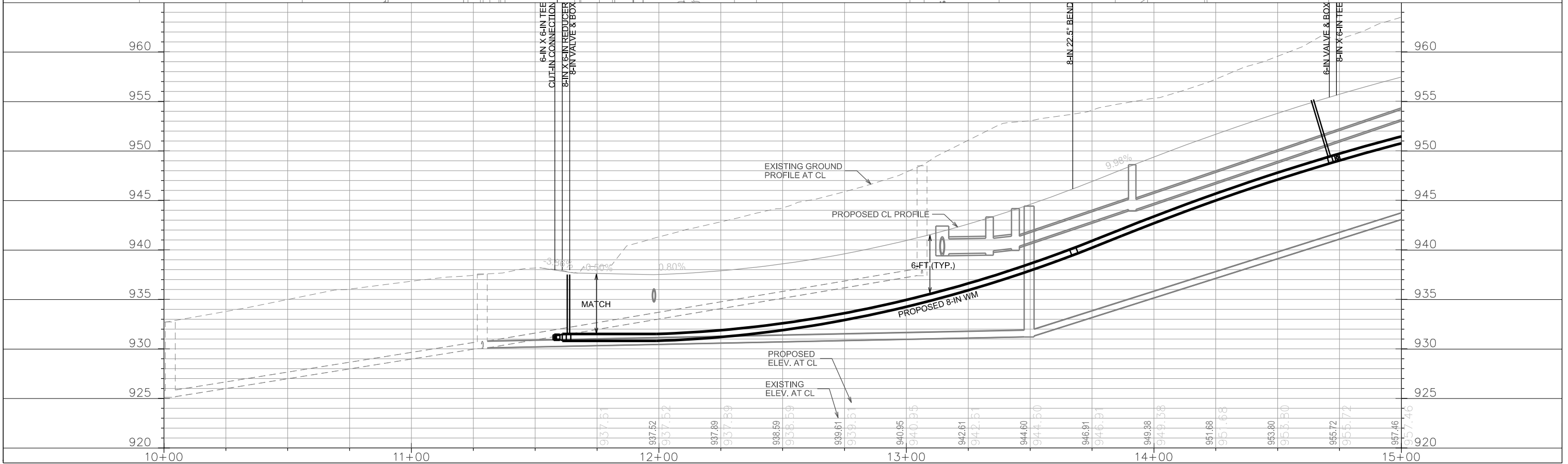
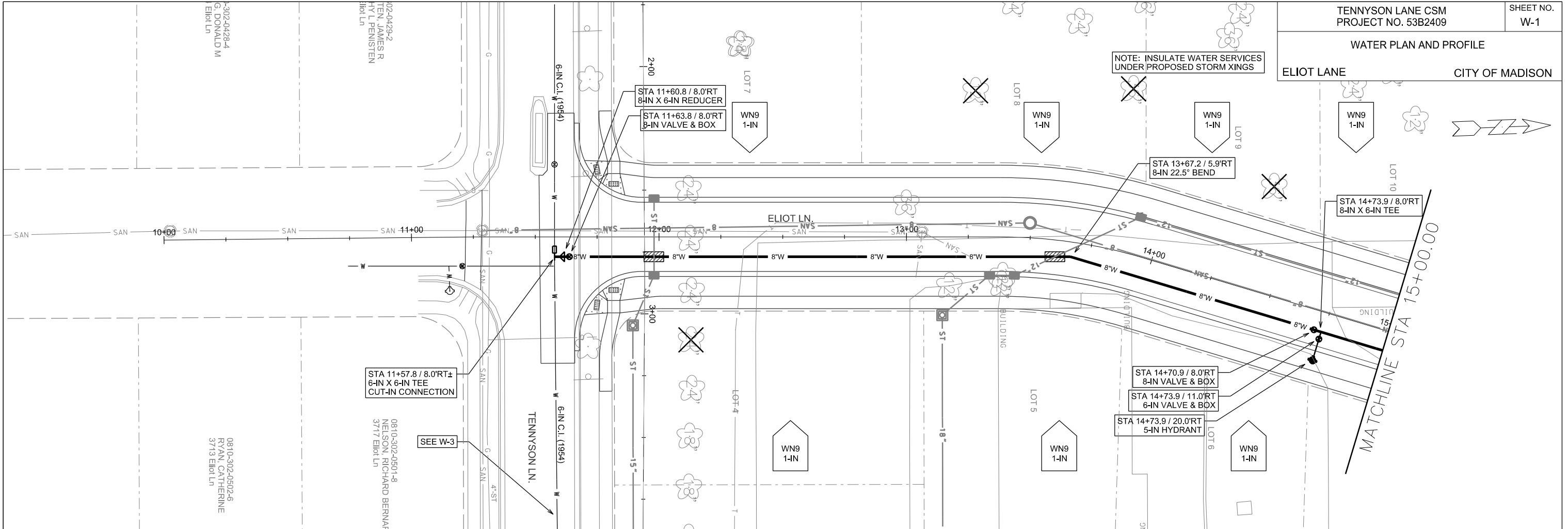


RYAN D. QUAM
 E-33715
 MADISON, WI
 PROFESSIONAL ENGINEER
 Aug. 25, 2015

QUAM ENGINEERING, LLC 4604 Sigelkow Road, Suite A; McFarland, WI 53558 (608) 838-7750



WATER PLAN AND PROFILE
ELIOT LANE CITY OF MADISON

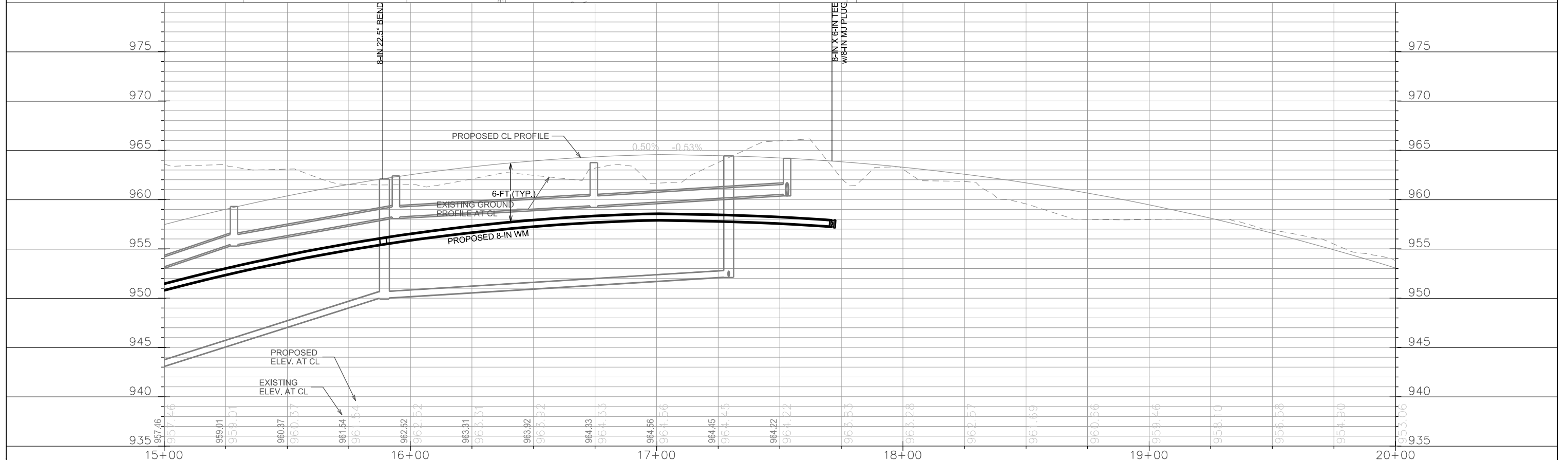
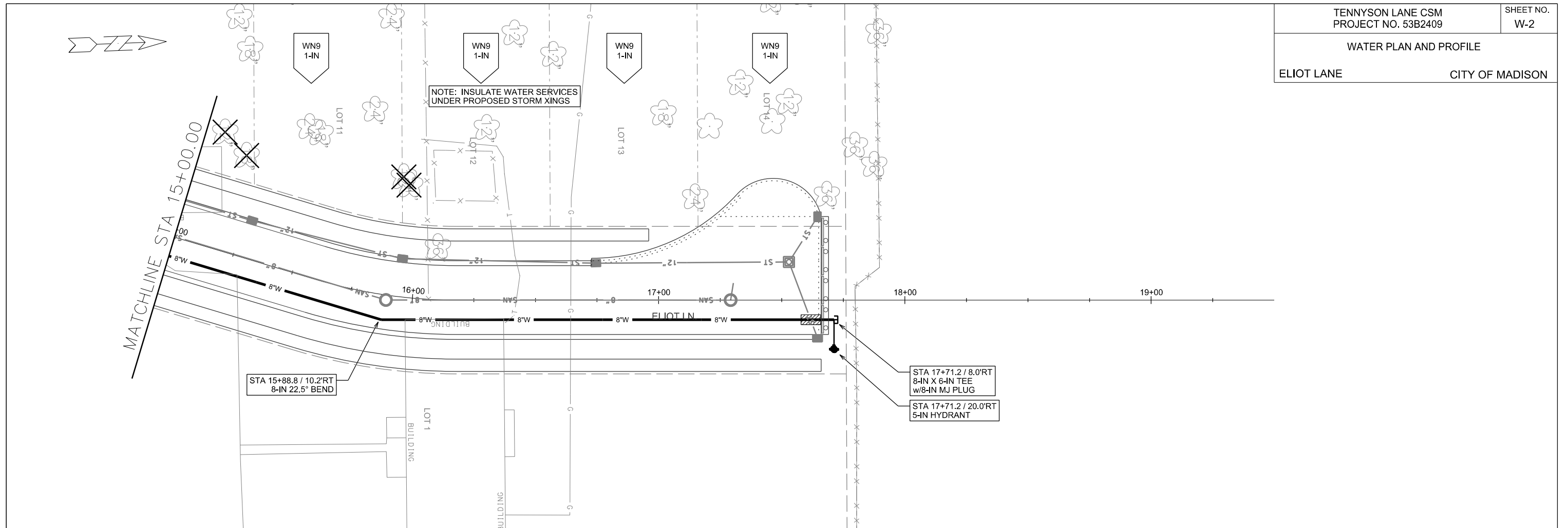


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE: _____

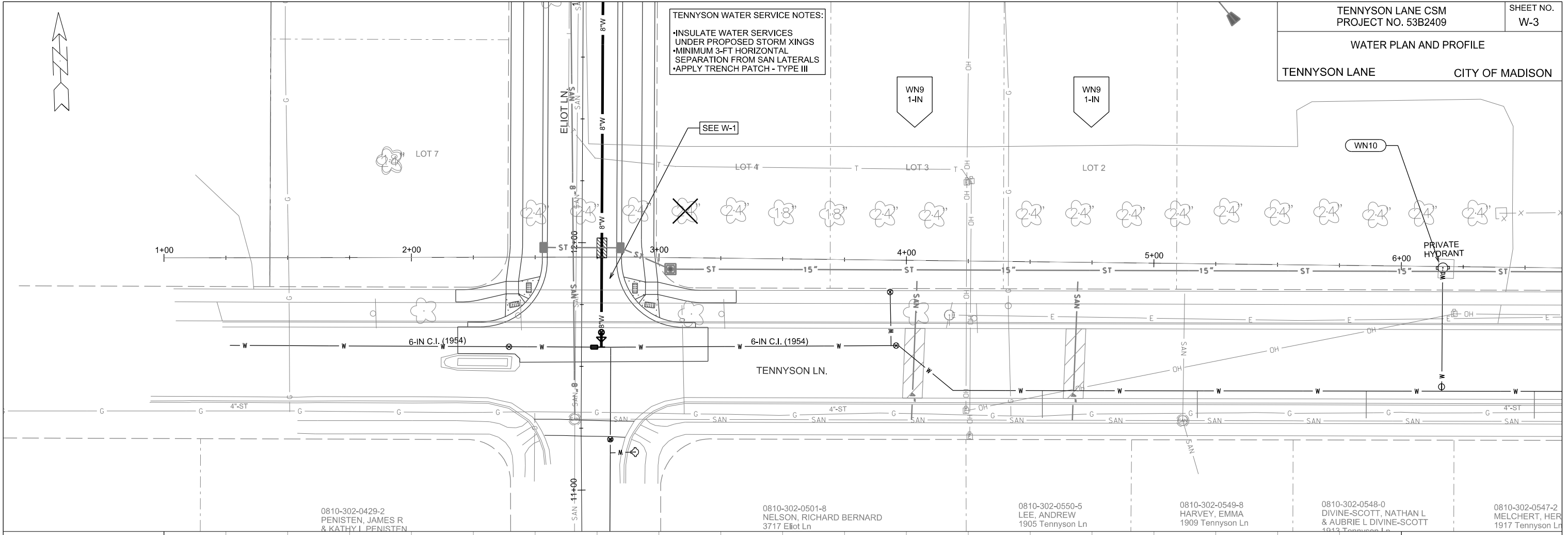
PLOT NAME: _____

REV. DATE: _____

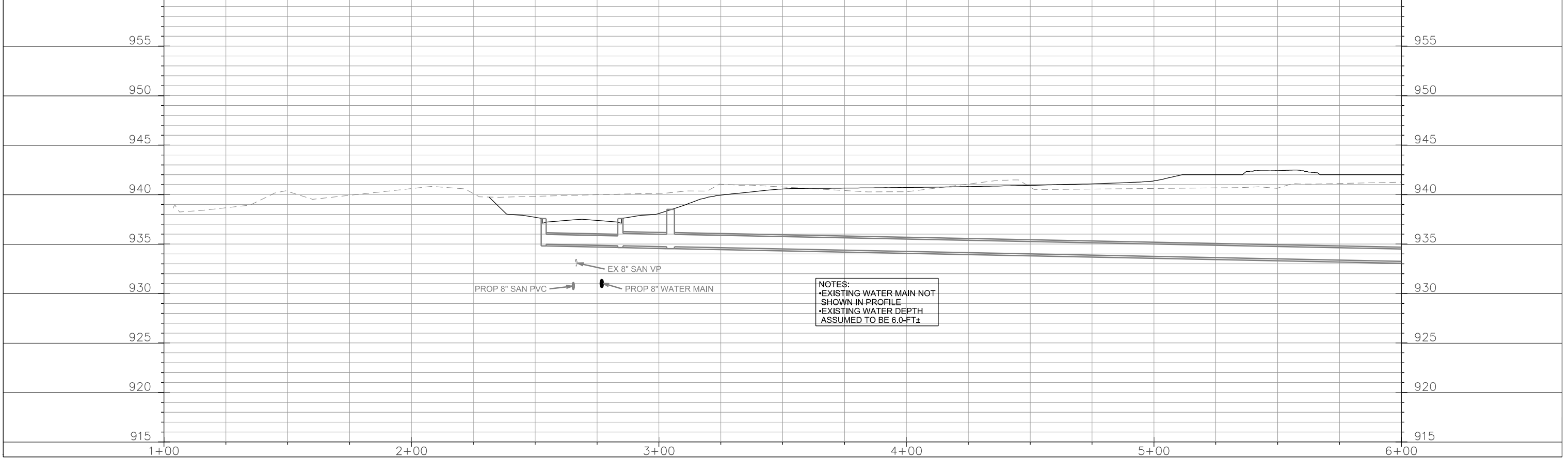
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

WATER PLAN AND PROFILE
TENNYSON LANE CITY OF MADISON

TENNYSON WATER SERVICE NOTES:
•INSULATE WATER SERVICES UNDER PROPOSED STORM XINGS
•MINIMUM 3-FT HORIZONTAL SEPARATION FROM SAN LATERALS
•APPLY TRENCH PATCH - TYPE III



0810-302-0429-2 PENISTEN, JAMES R & KATHY L. PENISTEN
0810-302-0501-8 NELSON, RICHARD BERNARD 3717 Elliot Ln
0810-302-0550-5 LEE, ANDREW 1905 Tennyson Ln
0810-302-0549-8 HARVEY, EMMA 1909 Tennyson Ln
0810-302-0548-0 DIVINE-SCOTT, NATHAN L & AUBRIE L. DIVINE-SCOTT 1912 Tennyson Ln
0810-302-0547-2 MELCHERT, HER 1917 Tennyson Ln



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

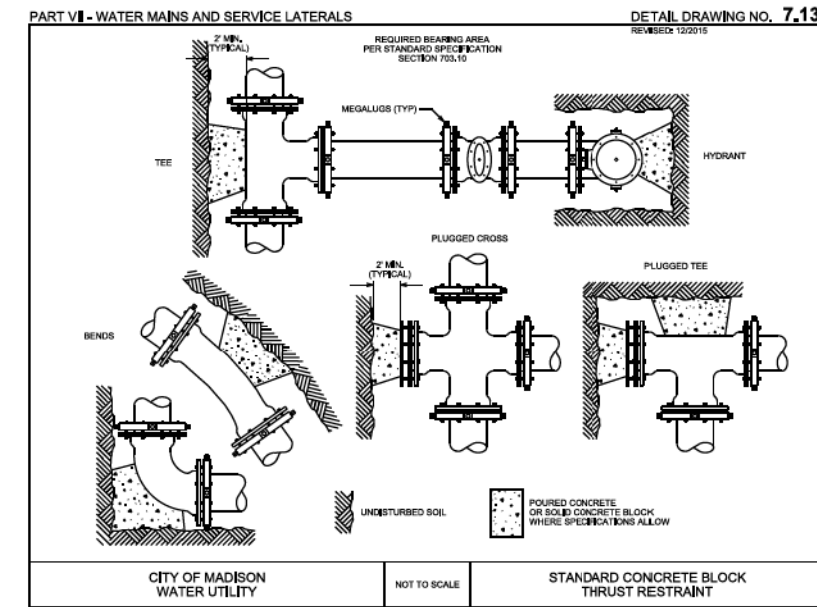
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

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.

 INDICATES INSULATION AT STORM SEWER CROSSING

- 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



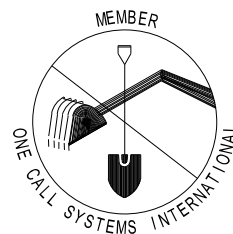
ESTIMATE OF PROJECT MATERIALS:

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

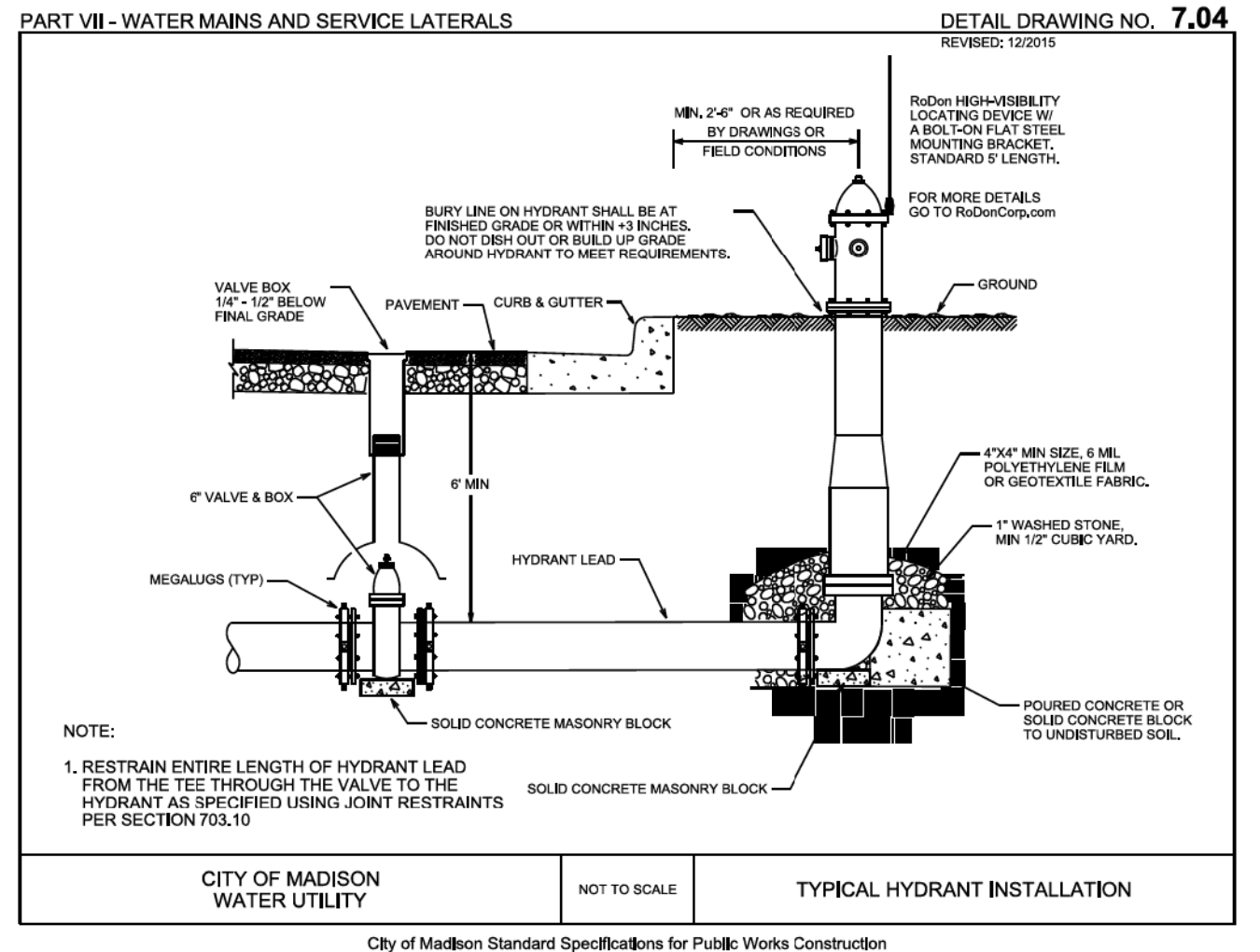
WATER MAIN AND FITTING MATERIALS	
6-IN PIPE (LF)	30
8-IN PIPE (LF)	620
6-IN VALVES & BOXES	1
8-IN VALVES & BOXES	2
POLY WRAP (LF)	715
6-IN X 6-IN TEES	1
8-IN X 6-IN TEES	2
8-IN X 6-IN REDUCERS	1
8-IN MJ PLUGS	1
6-IN SOLID SLEEVES	1
5-IN HYDRANTS	1
MISC. MATERIALS	
INSULATION (LF)	88
COPPER TUBING (1-IN TO 2-IN)	AS REQ

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.



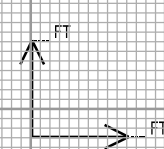
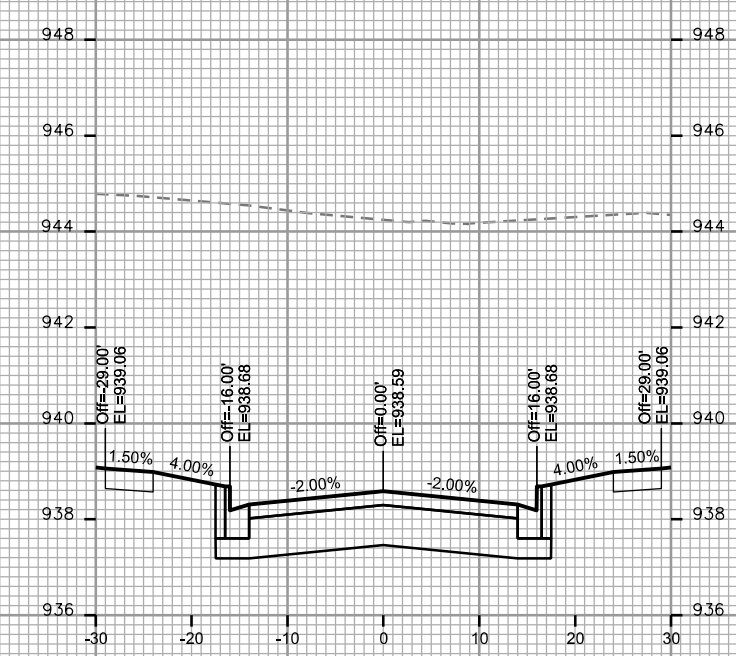
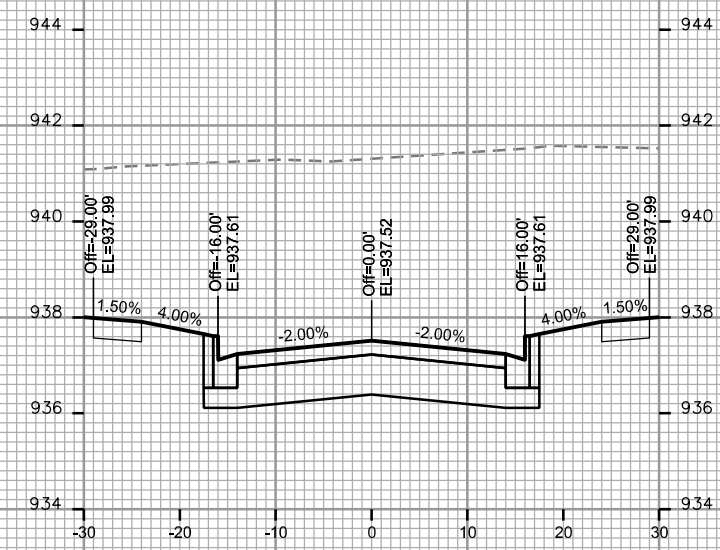
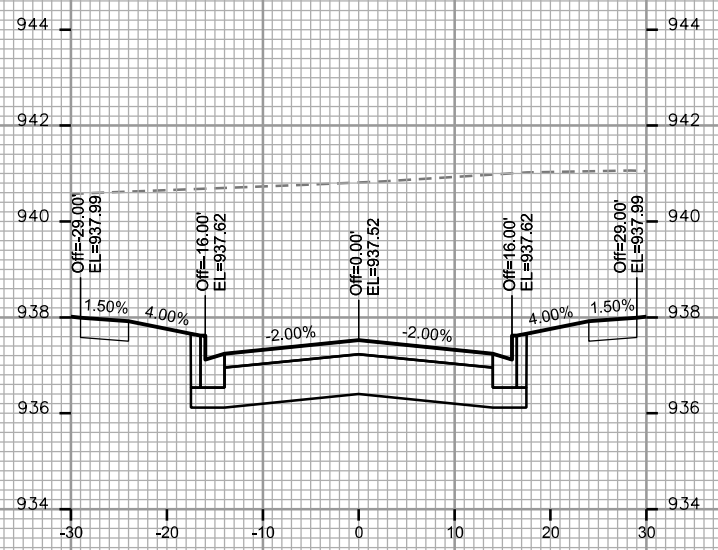
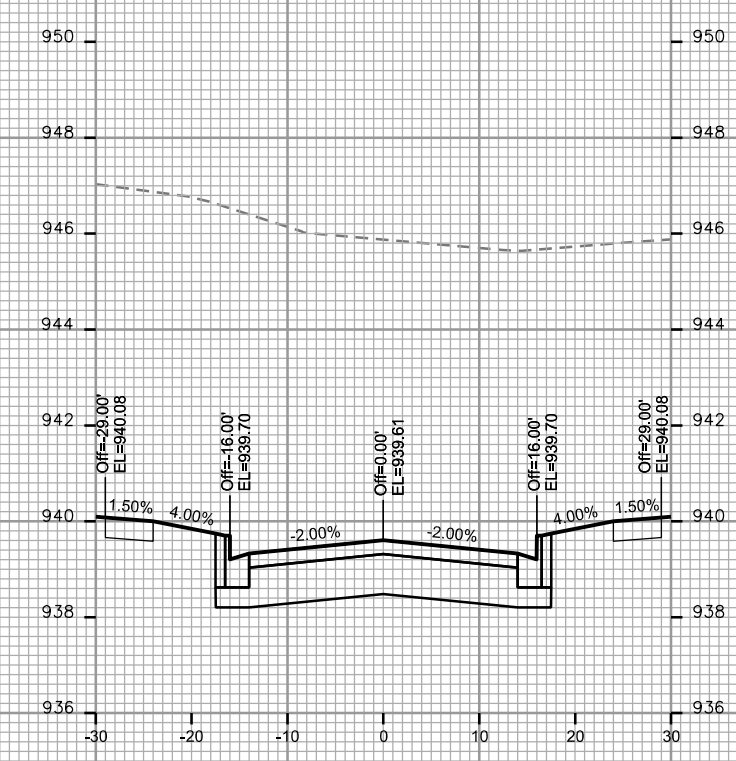
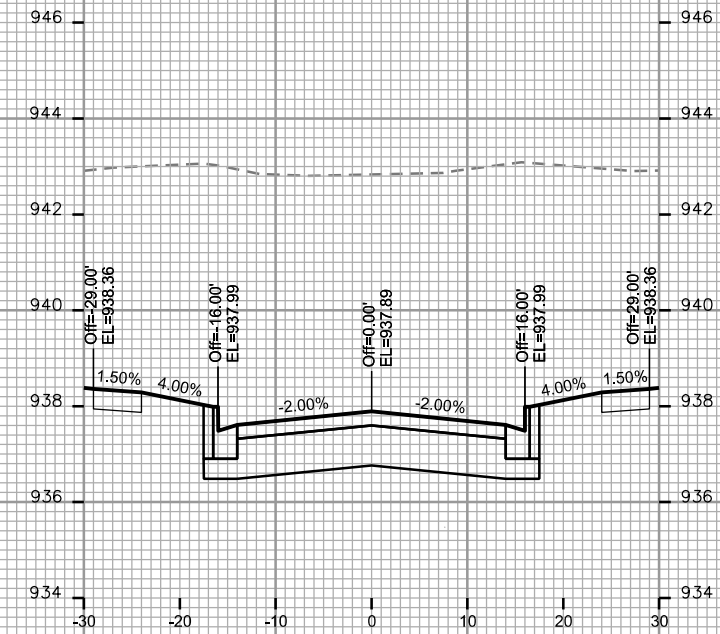
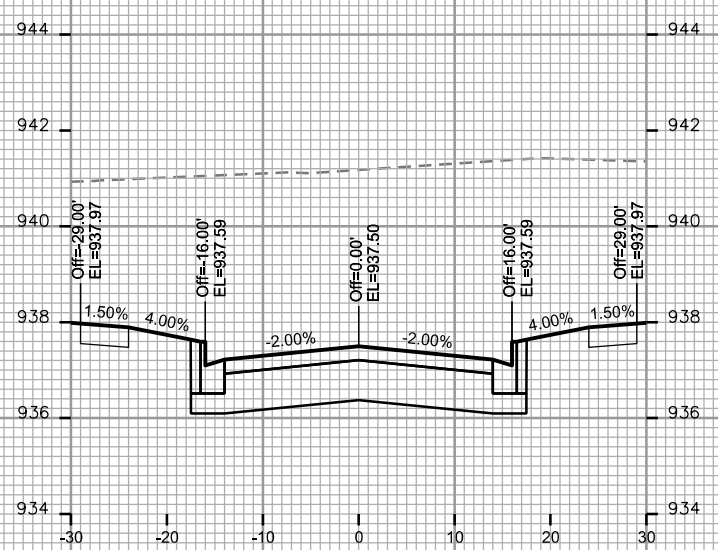
NOTE:
1. RESTRAIN ENTIRE LENGTH OF HYDRANT LEAD FROM THE TEE THROUGH THE VALVE TO THE HYDRANT AS SPECIFIED USING JOINT RESTRAINTS PER SECTION 703.10

PLOT SCALE: _____

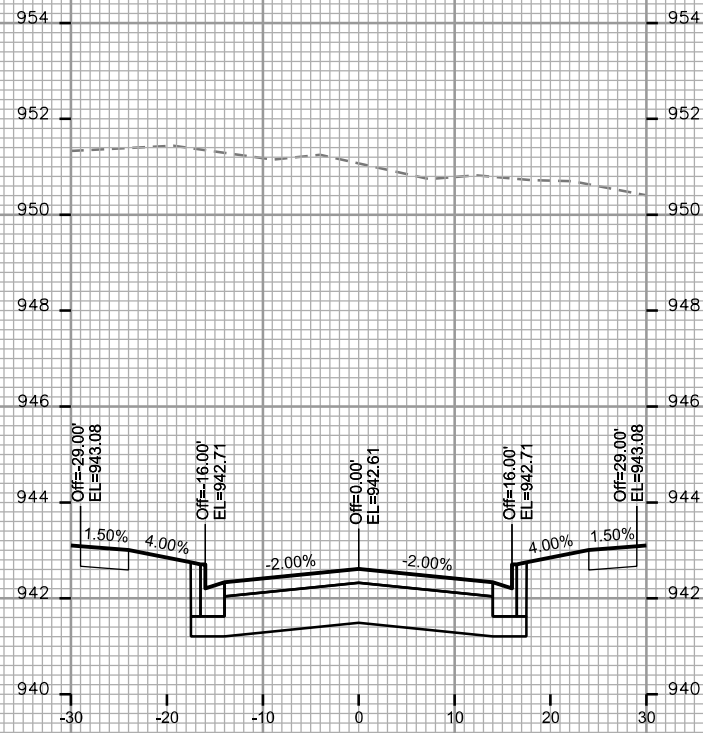
PLOT NAME: _____

REV. DATE: _____

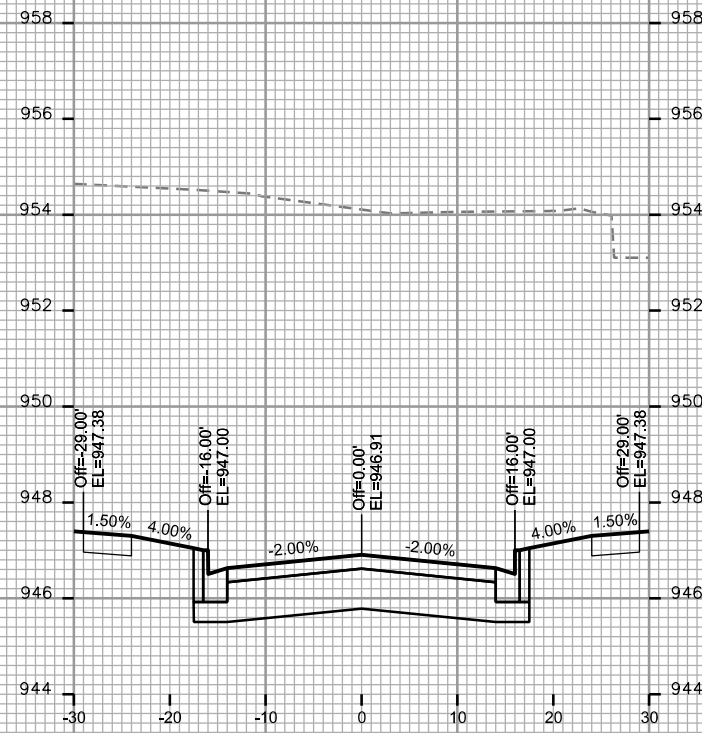
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



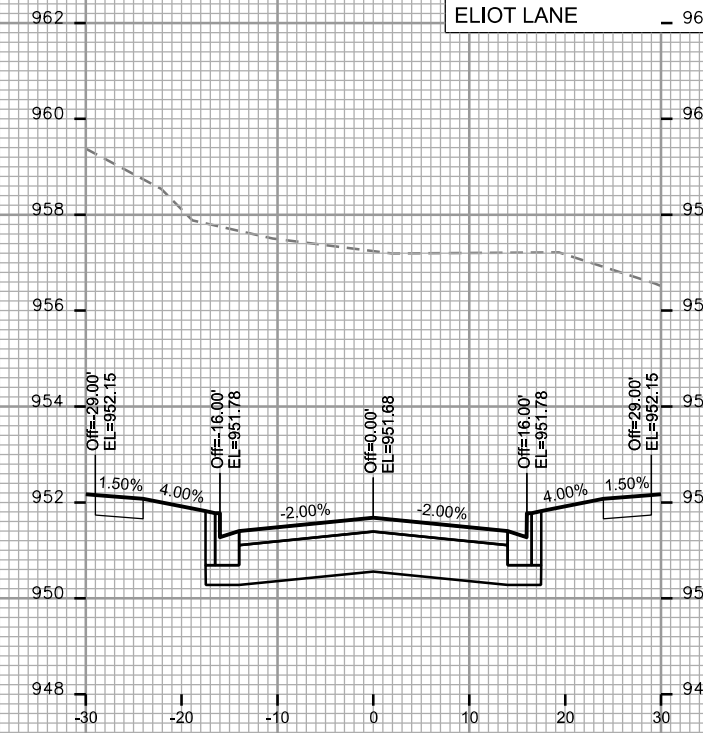
CROSS SECTIONS
ELIOT LANE — 962 CITY OF MADISON



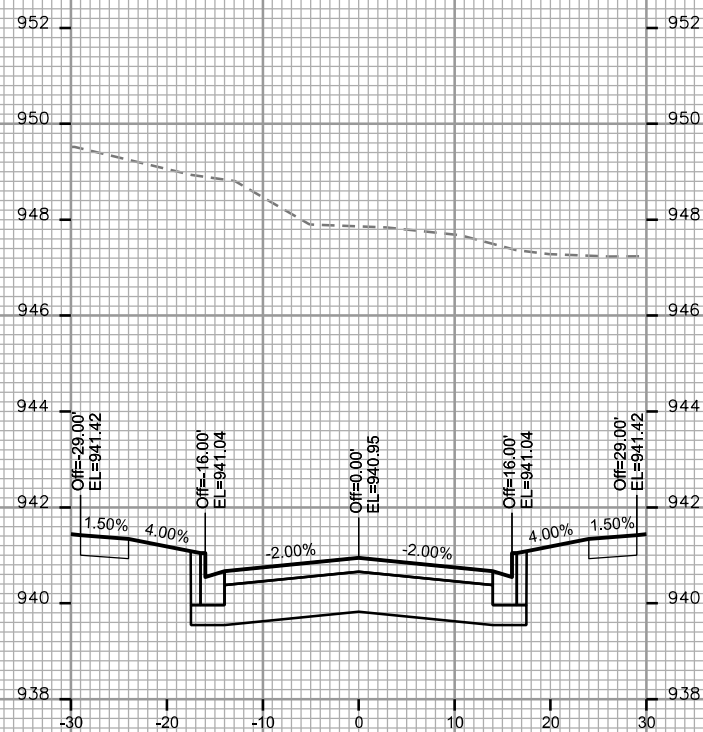
STA. 13+25



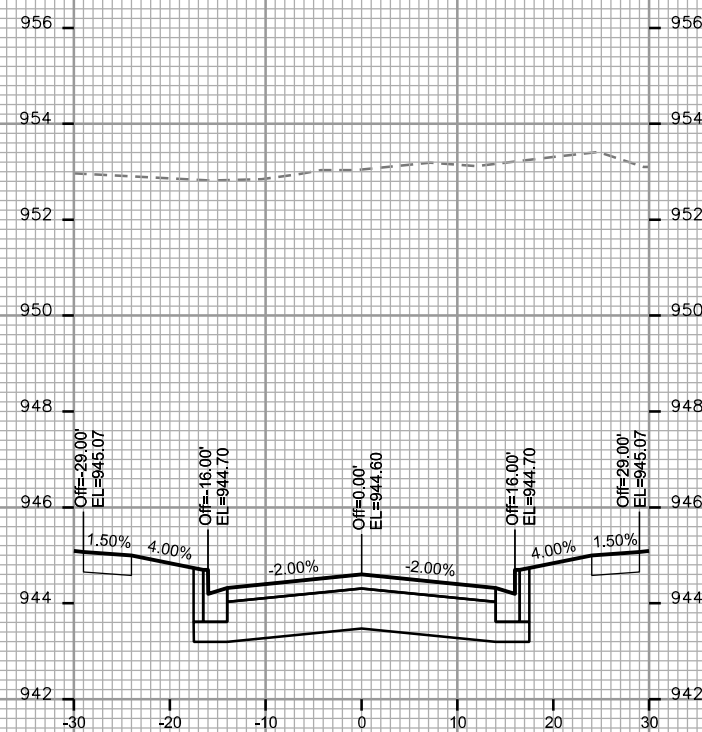
STA. 13+75



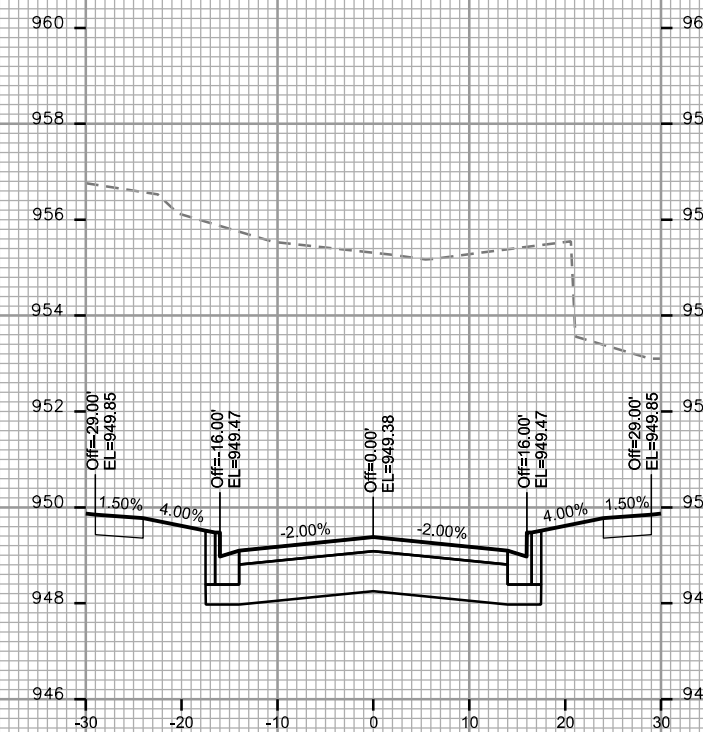
STA. 14+25



STA. 13+00



STA. 13+50



STA. 14+00



PLOT SCALE: _____

PLOT NAME: _____

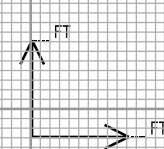
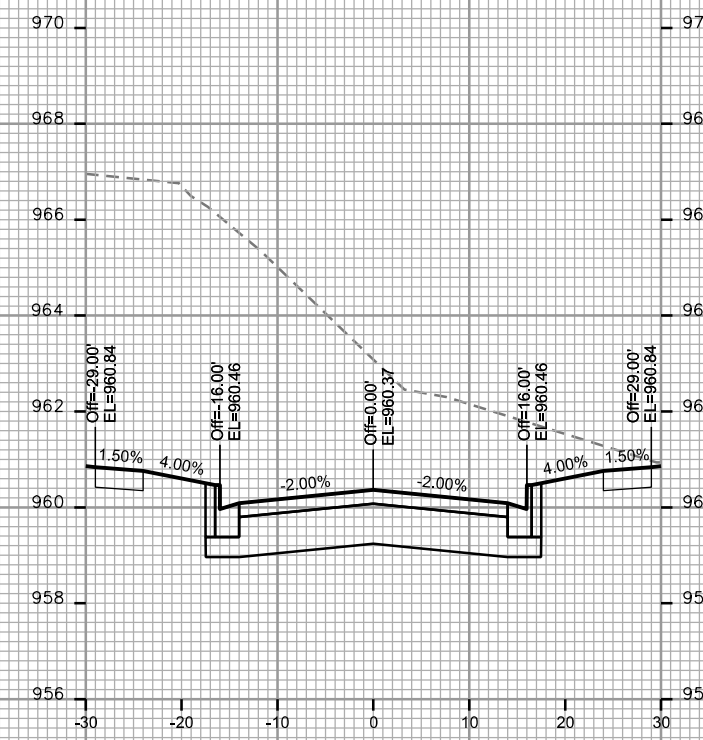
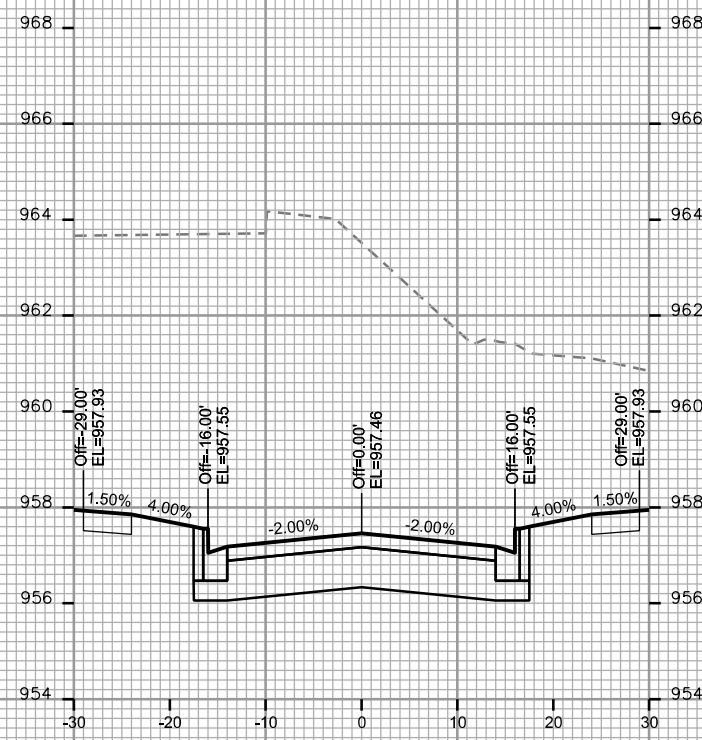
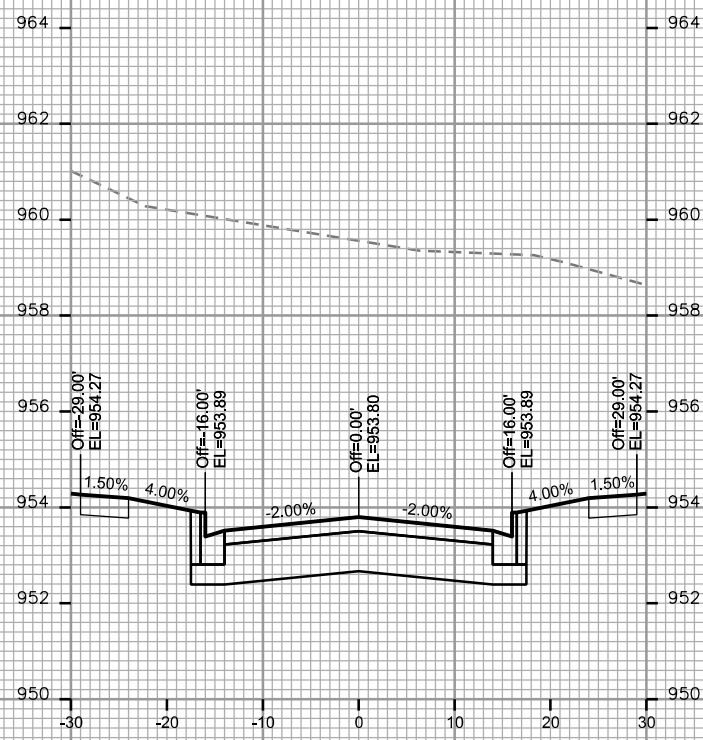
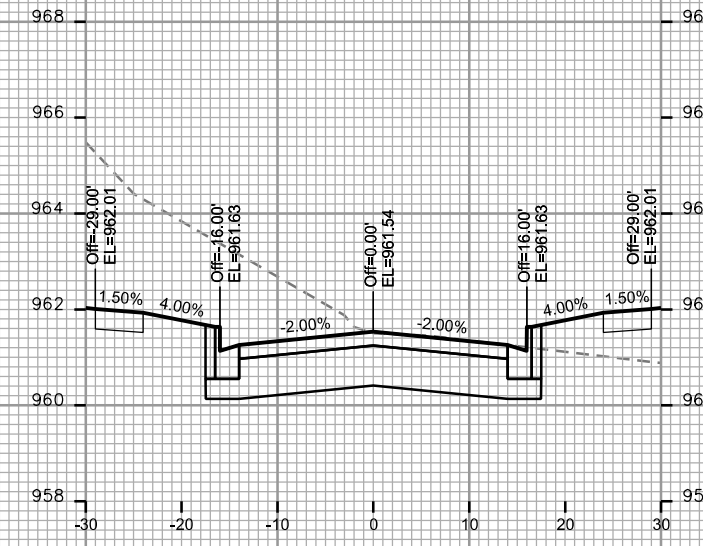
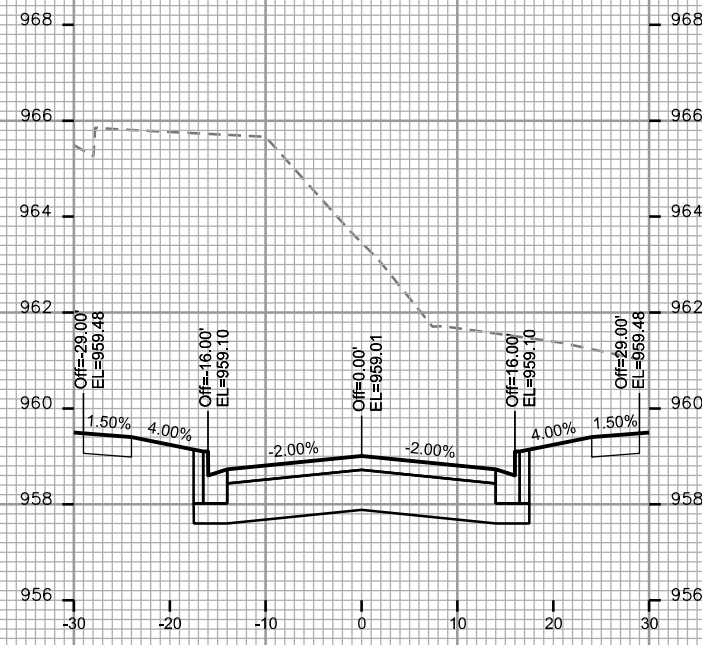
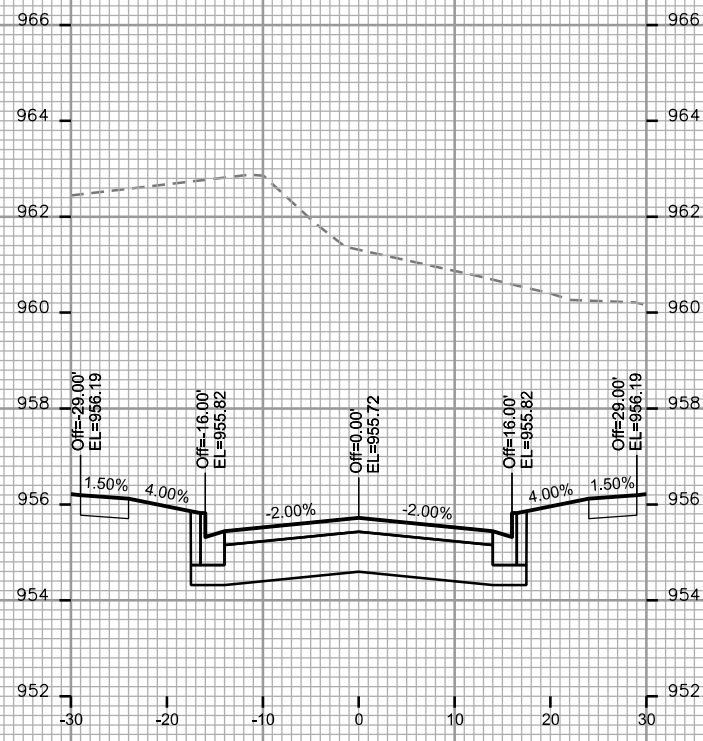
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

CROSS SECTIONS

ELIOT LANE

CITY OF MADISON



PLOT SCALE: _____
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON - STREETS DIVISION

CROSS SECTIONS

ELIOT LANE

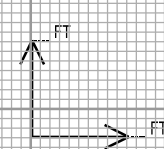
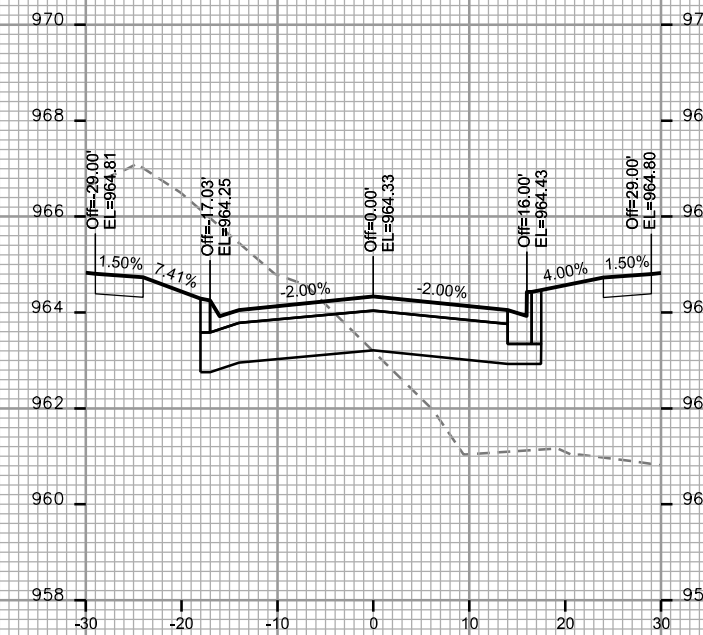
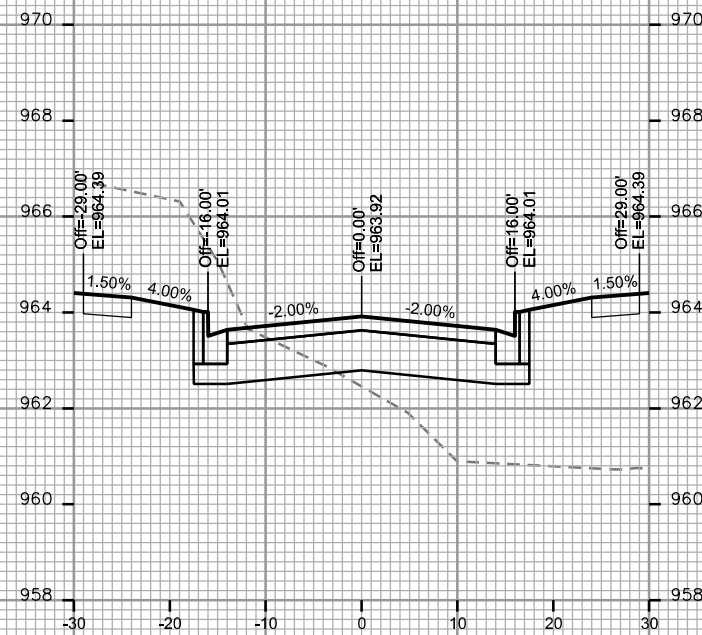
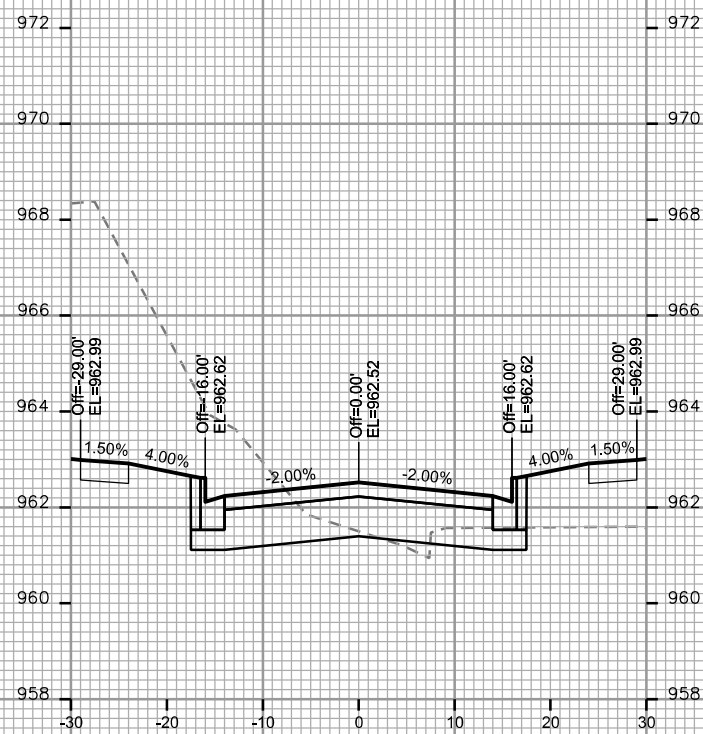
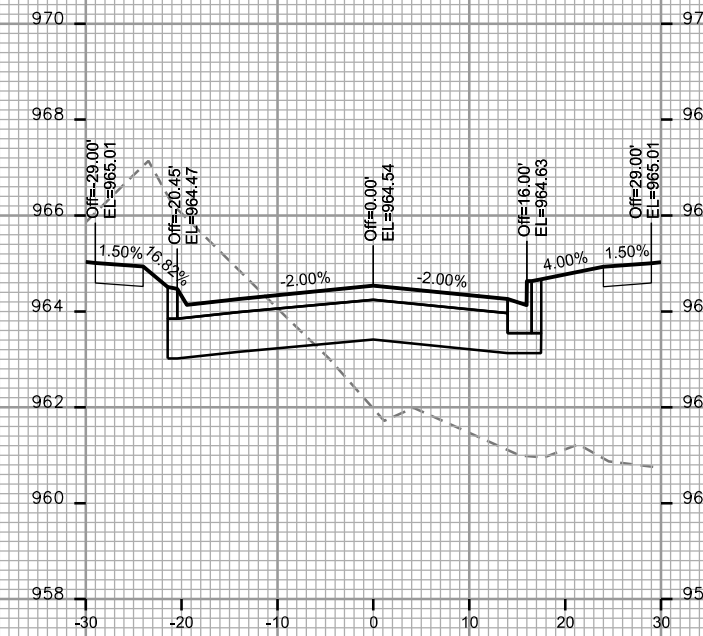
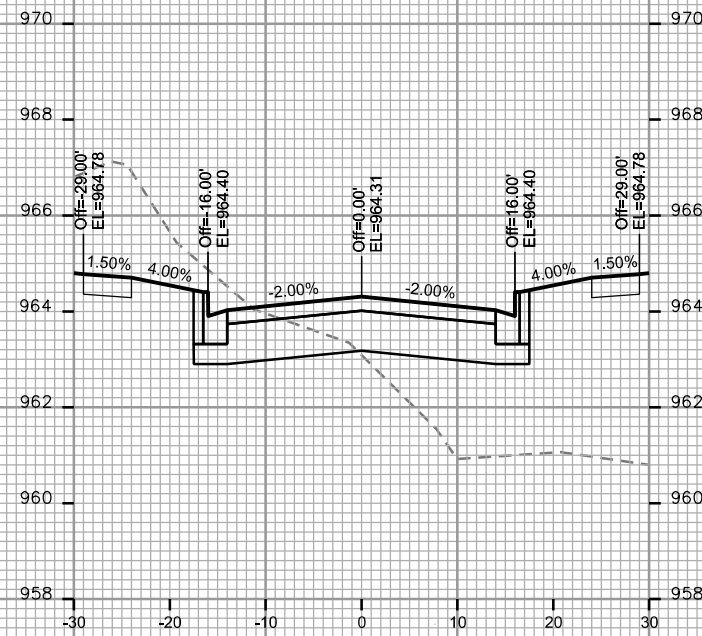
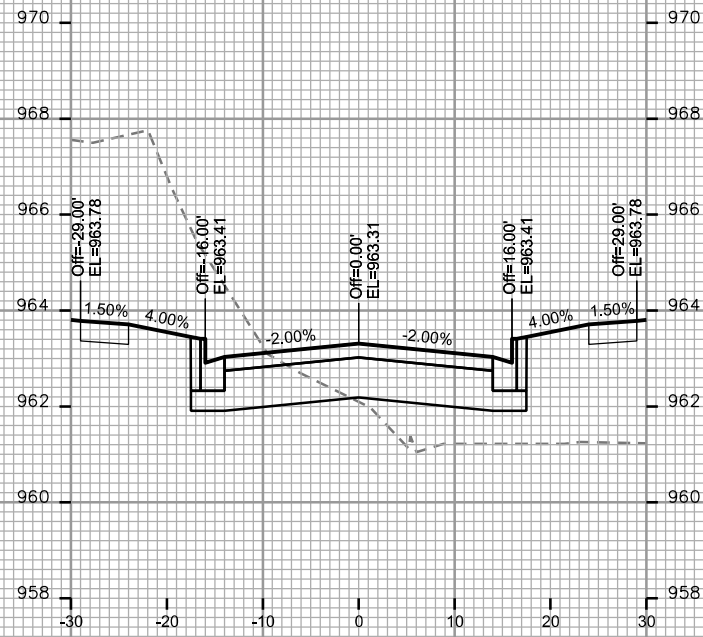
CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON - STREETS DIVISION



CROSS SECTIONS

ELIOT LANE

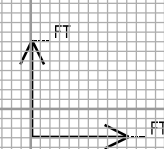
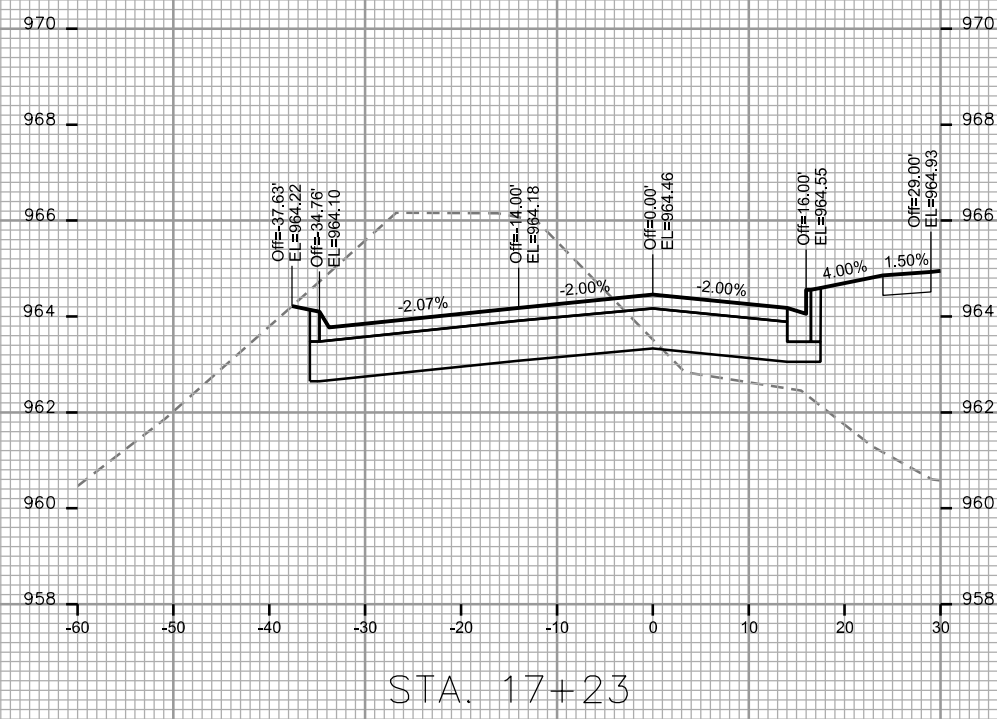
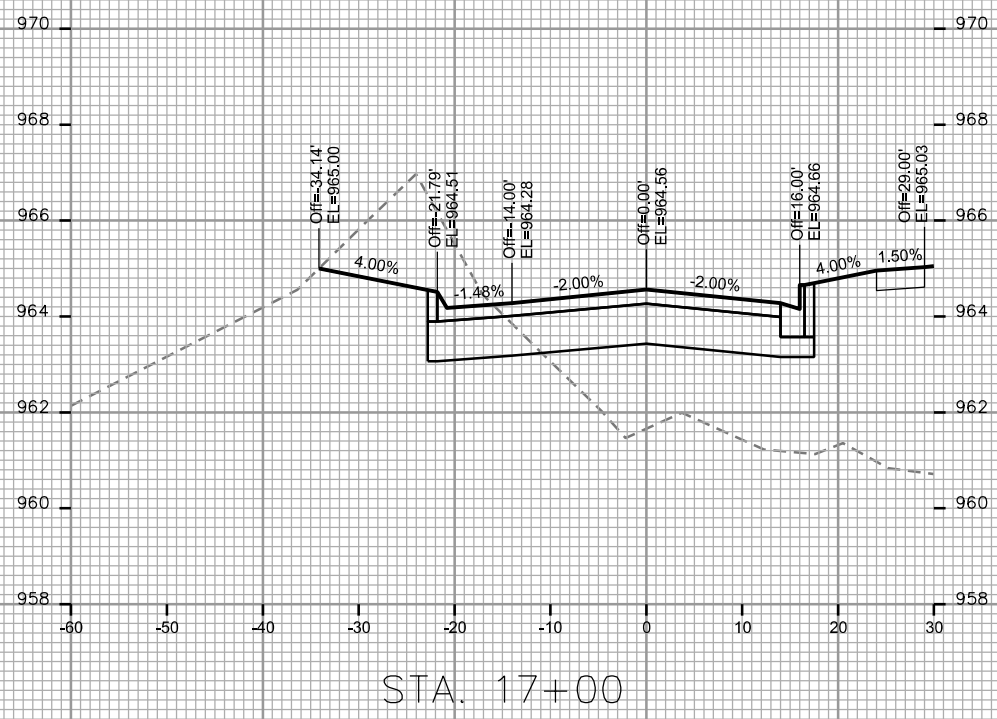
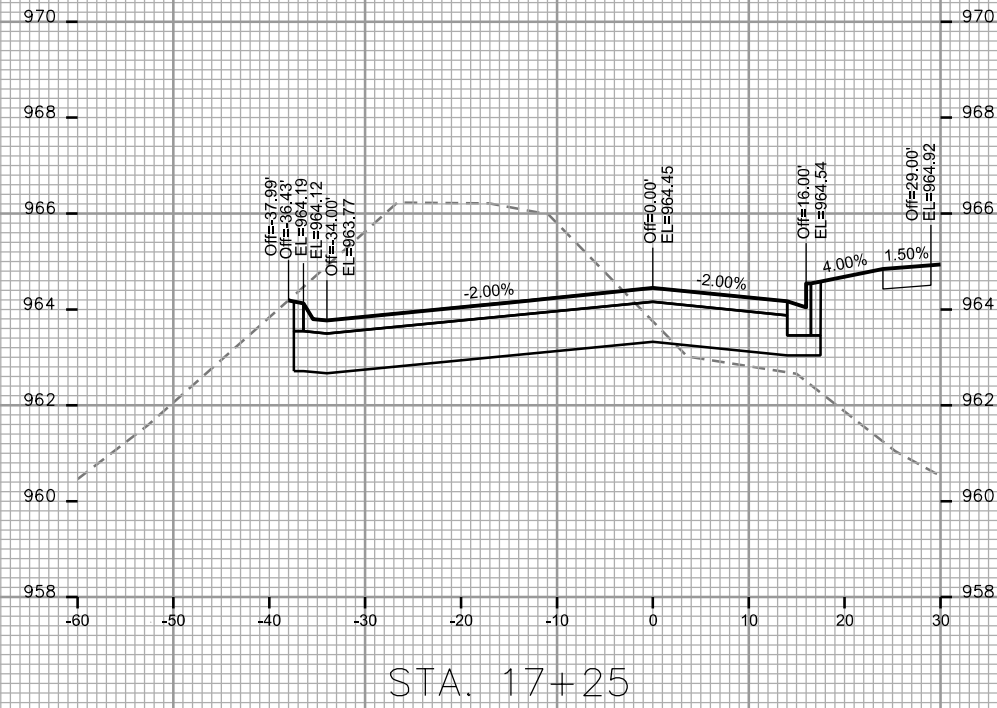
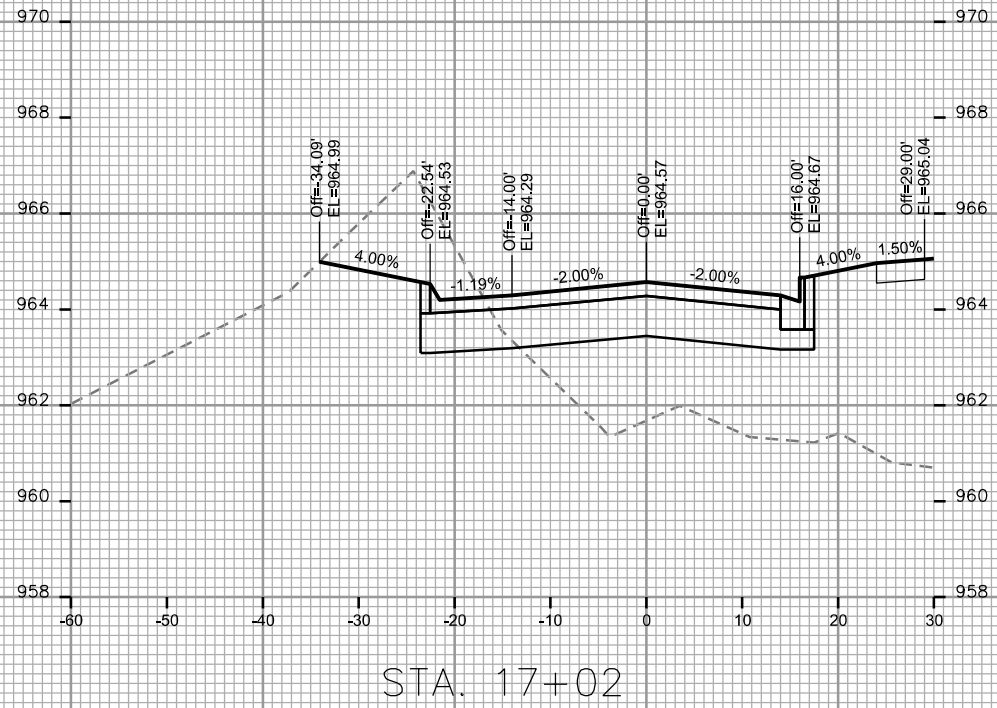
CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON - STREETS DIVISION



CROSS SECTIONS

ELIOT LANE

CITY OF MADISON

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON STREETS DIVISION

