



Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

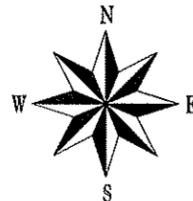
INDEX OF SHEETS

SHEET NO.	TITLE
1	DETAILS
D1-D2	PLAN AND PROFILE
P1-P4	PAVEMENT MARKING PLAN

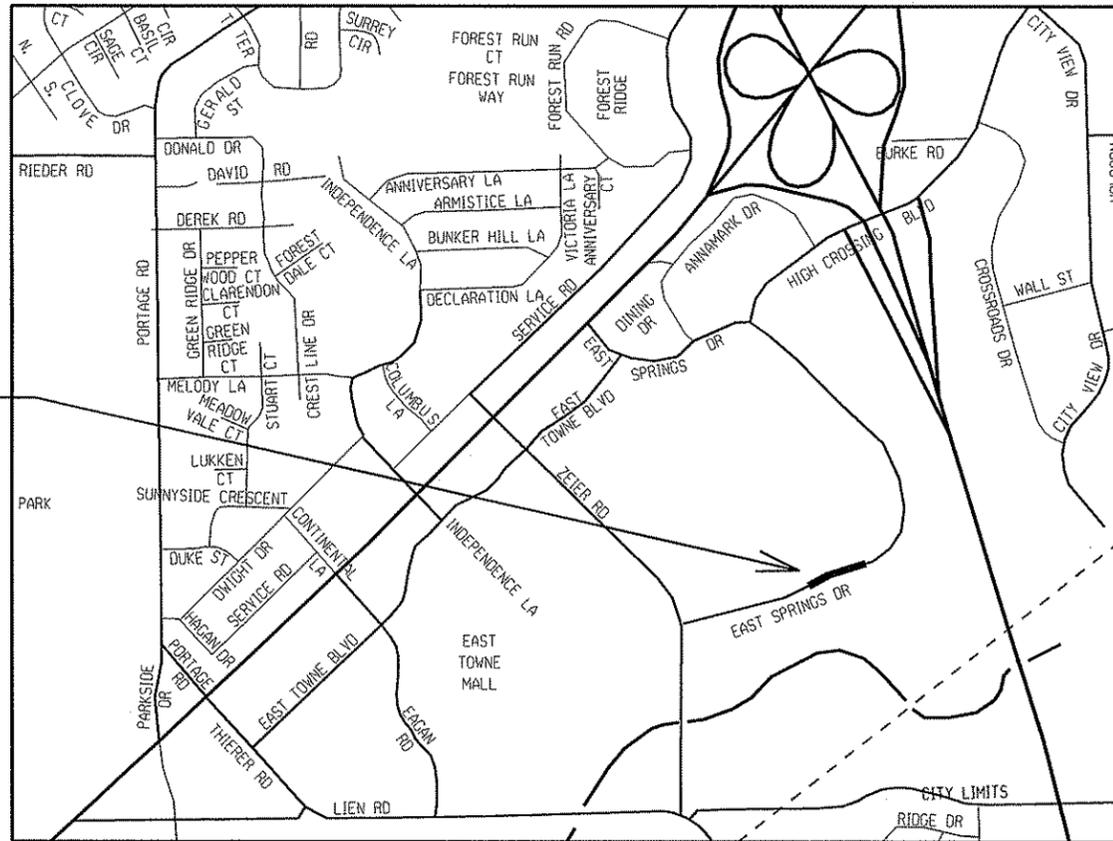
2101-2115 EAST SPRINGS - STEINHAFELS EAST

CITY PROJECT NO. 53B2242
CONTRACT NO. 2242

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	☀



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%.

PUBLIC IMPROVEMENT PROJECT APPROVED

MAY 4, 2010

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

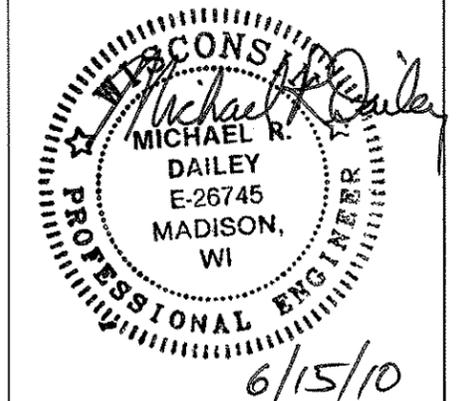
PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

Christy Bachmann 6/16/10
 City Engineer Date

STREET
DESIGNED BY:



STORM AND SANITARY SEWER
DESIGNED BY:



GEOMETRICS AND PAVEMENT MARKINGS
DESIGNED BY:



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.

ALL PAVEMENT IN THE EAST SPRINGS DRIVE RIGHT OF WAY SHALL BE TYPE "C" PER STANDARD DETAIL DRAWING 4.02.

ALL ISLANDS SHALL HAVE TYPE "E" C & G PER S.D.D. 3.08 AND MOUNTABLE NOSES PER S.D.D. 3.13 CROSS WALK AT END OF NOSE. ALL OTHER C & G SHALL BE TYPE "A" PER S.D.D. 3.06 UNLESS OTHERWISE NOTED.

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

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.

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 2%. 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. A 2 FOOT WIDE CONCRETE FLUME 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. THE DESIGN OF SIDEWALK ELEVATIONS AND GRADES IS NOT INCLUDED IN THIS PLAN. 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.

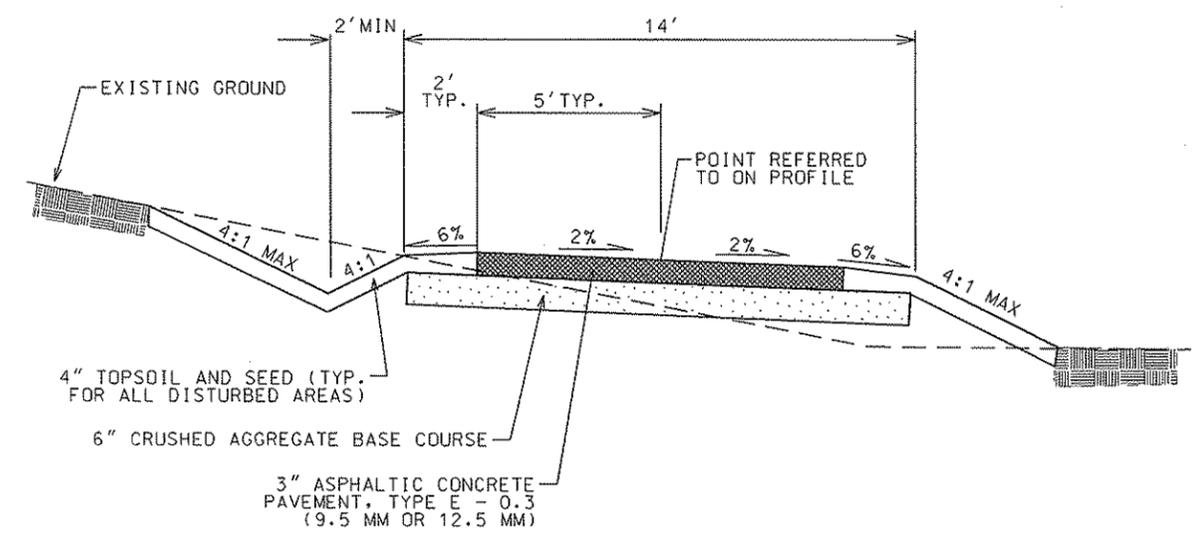
PLOT SCALE:

PLOT NAME:

REV. DATE:

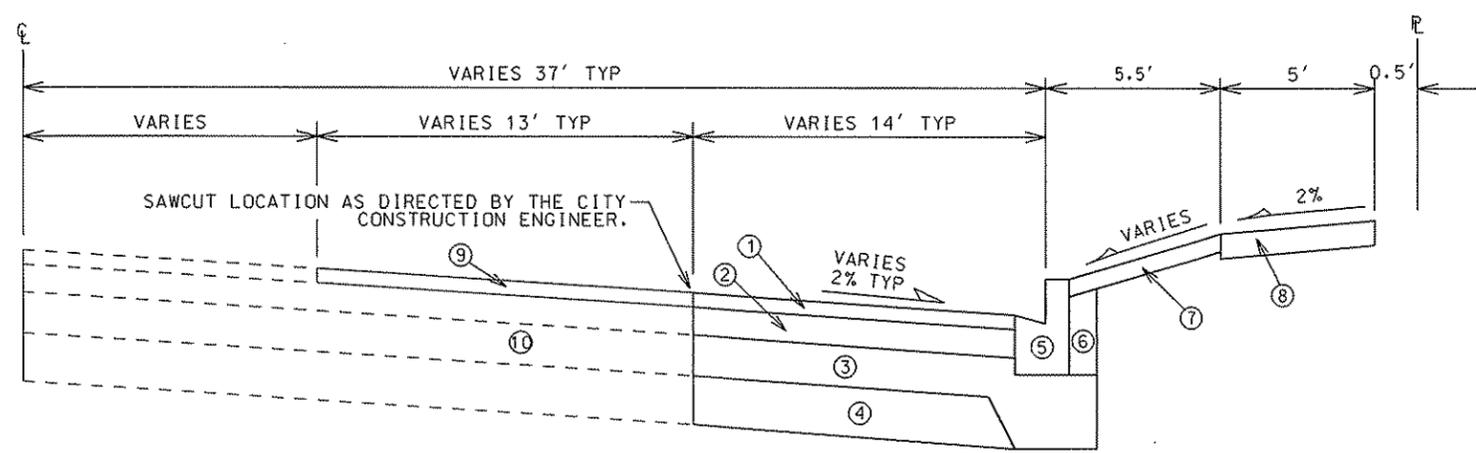
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

- ① 1 3/4" BITUMINOUS UPPER LAYER, 12.5mm TYPE E-3
- ② 3 1/2" BITUMINOUS LOWER LAYER, 19.0mm TYPE E-3
- ③ 4" GRADATION 2 CRUSHED STONE
- ④ 6" GRADATION 1 CRUSHED STONE
- ⑤ TYPE 'A' CURB (TYPICAL)
- ⑥ FILL
- ⑦ 4" TOPSOIL & SEED
- ⑧ 5" CONCRETE SIDEWALK
- ⑨ 2" MILL & OVERLAY
- ⑩ EXISTING ROADWAY



TYPICAL FUTURE BIKE PATH SECTION

NOT TO SCALE



TYPICAL TERRACE SECTION

EAST SPRINGS DRIVE

NOT TO SCALE

- NOTES:
- A PAVEMENT DESIGN IN ACCORDANCE WITH STANDARD DETAIL DRAWING 4.06 IS REQUIRED ON ALL PROJECTS
 - 3" OF CRUSHED AGGREGATE BASE COURSE GRADATION 3 SHALL BE PLACED UNDER THE SIDEWALK WHERE THE CENTERLINE GRADE OF THE STREET EXCEEDS 5%
 - SAWCUT AND PATCHING LIMITS ARE TO BE VERIFIED IN THE FIELD BY THE CITY CONSTRUCTION ENGINEER
 - CROSS SLOPE DIRECTION ON BIKE PATH AS SHOWN ON PLAN
 - GRADE GROUND ADJACENT TO BIKE PATH TO DRAIN AWAY FROM PATH OR DITCH TO DRAIN TO PONDS OR WETLAND AREAS

CITY OF MADISON MINIMUM PAVEMENT DESIGN

TYPE	CRUSHED AGGREGATE 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	1.5"
B	6"	4"	E-1	2.50"	E-1	1.75"
C	6"	4"	E-3	3.50"	E-3	1.75"

Pavement Patching Criteria

Criteria use on:
Streets with pavement rating > 6
Arterial Streets

1. Length of Patch

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

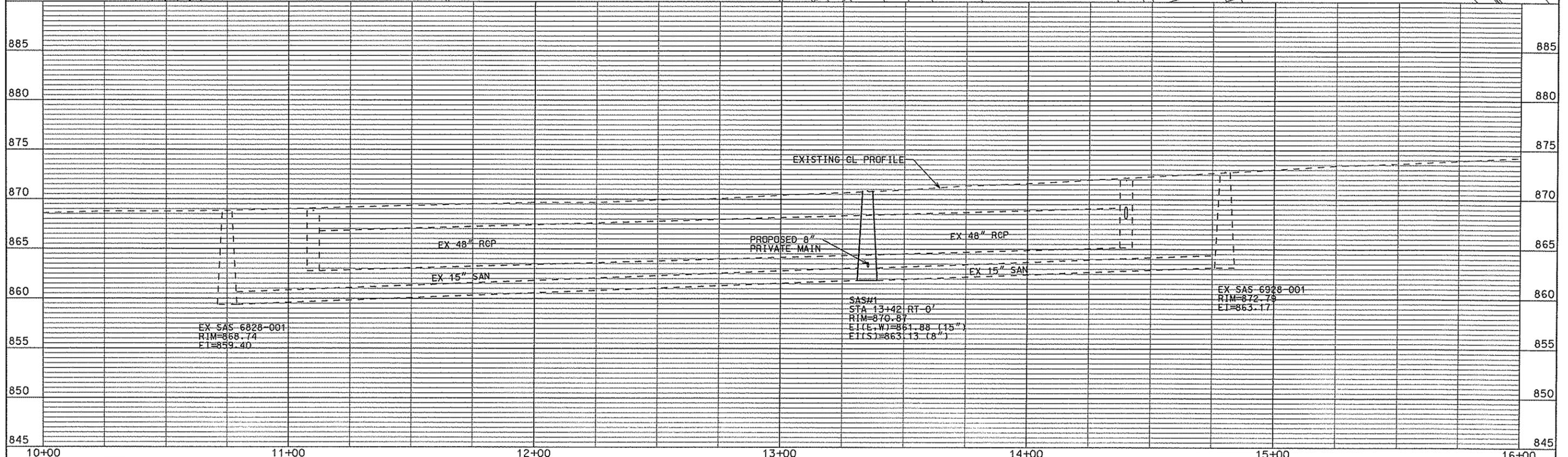
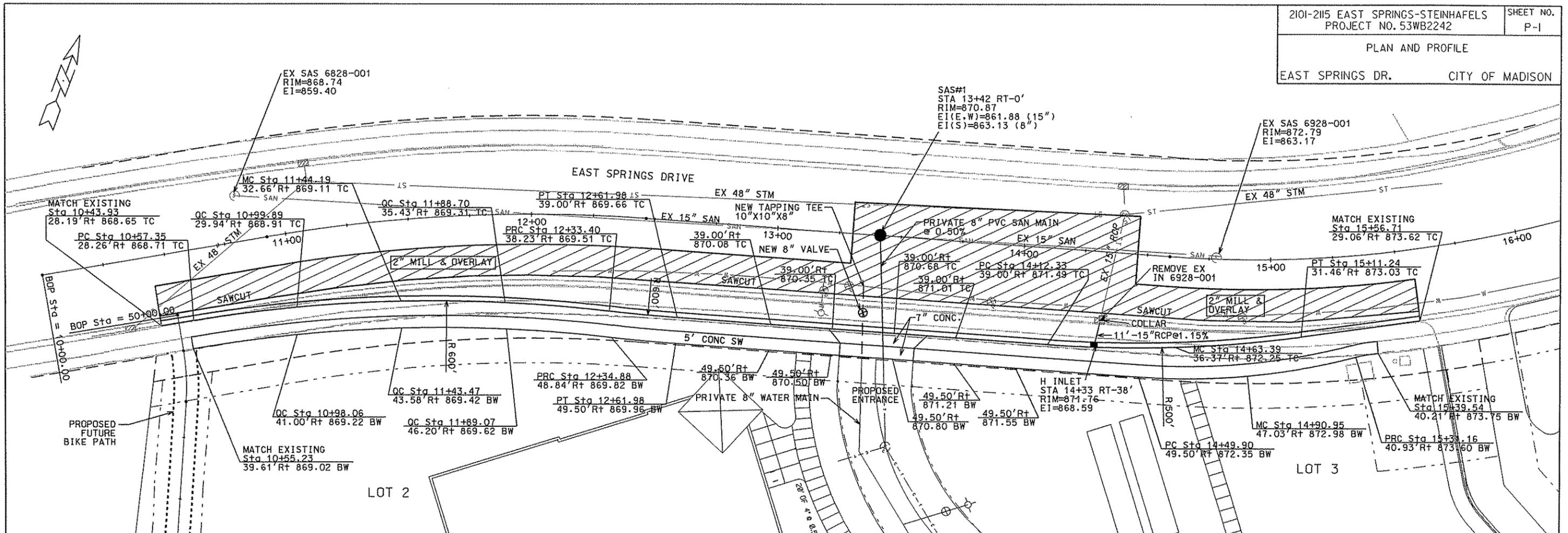
2. Width of Patch (all dimensions are curb face to curb face)

- All Streets Except Divided or one way roadways
 - Street Width 0 to 24 feet wide - Patch entire street width
 - 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.
 - Street Width 38 feet and up - Patch width of entire lane for each lane which was disturbed by the excavation.
 - If the lane is adjacent to a bike lane, include the bike lane.
 - If the lane is a bike lane and adjacent to a parking lane, include the parking lane.
 - If the lane is a bike lane and not adjacent to a parking lane, include the adjacent travel lane.
- Divided Roadways and One Way Streets
 - Street 0 to 19 feet wide - Patch entire street width
 - Street Width 20 feet and up - Patch width of entire lane for each lane which was disturbed by the excavation.
 - 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)
 - If the lane is a bike lane and adjacent to a parking lane, include the parking lane.
 - If the lane is a bike lane and not adjacent to a parking lane, include the adjacent travel lane.

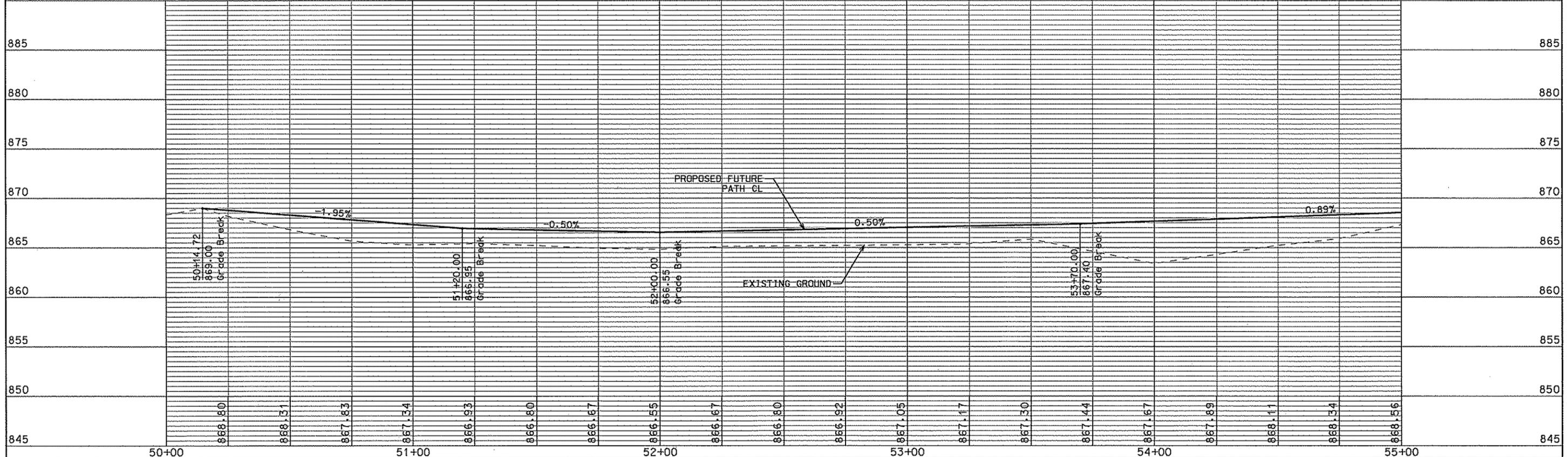
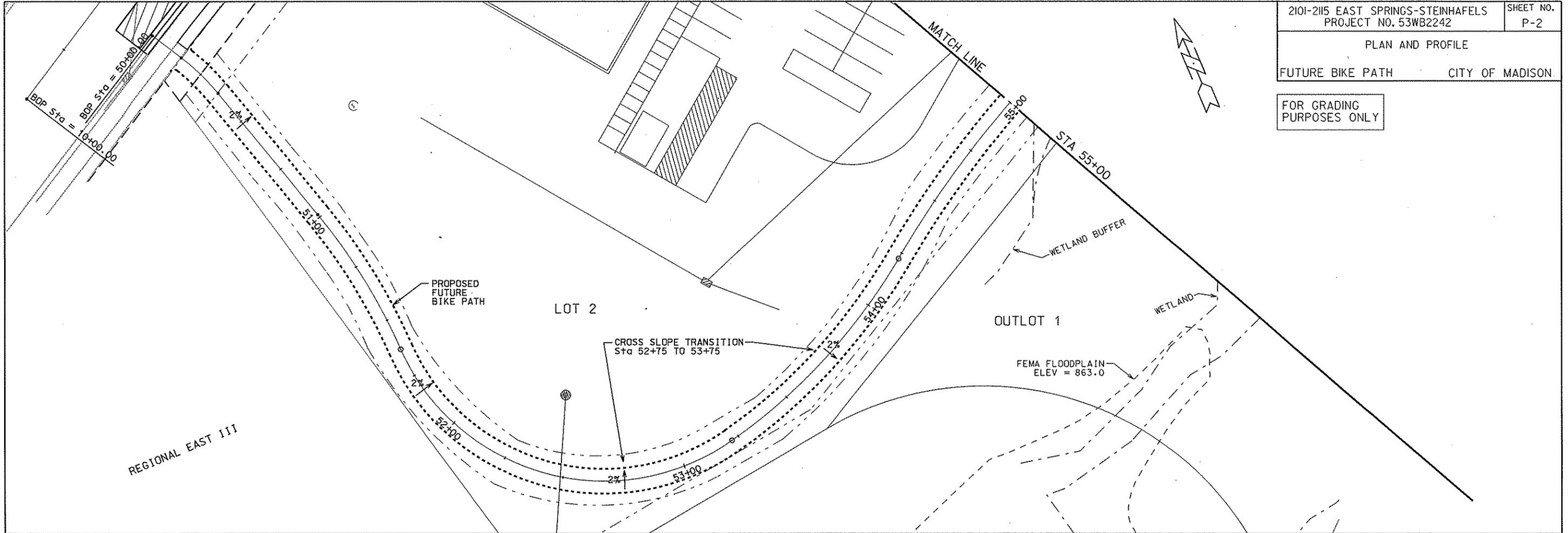
STREET RATINGS

STREET NAME	CLASSIFICATION	PAVEMENT RATING
EAST SPRINGS DR	COLLECTOR	8

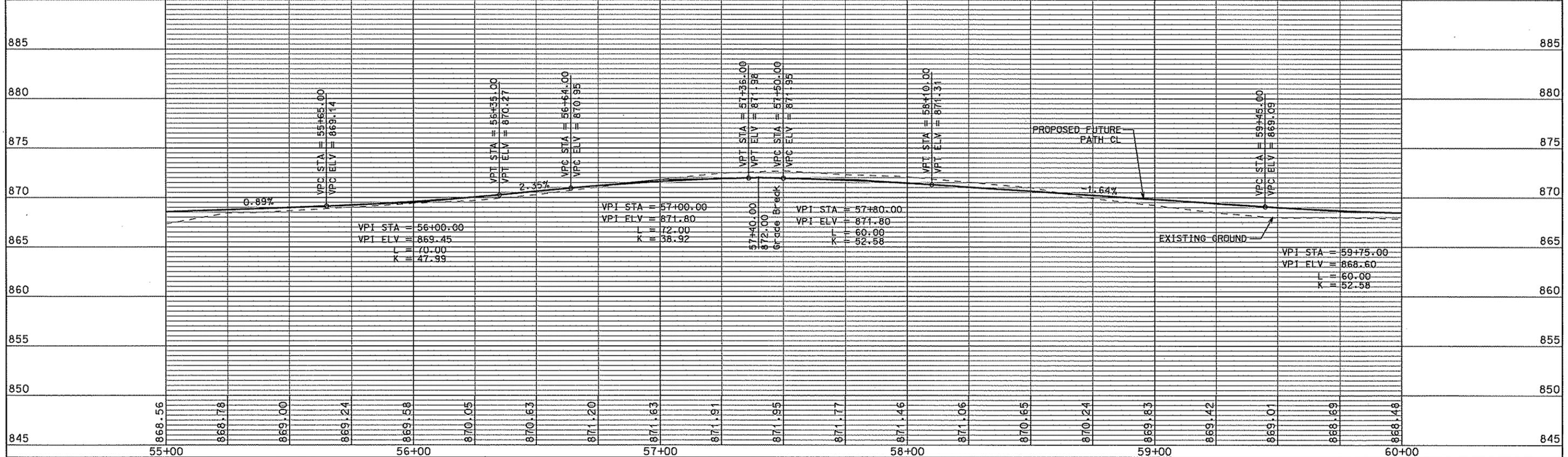
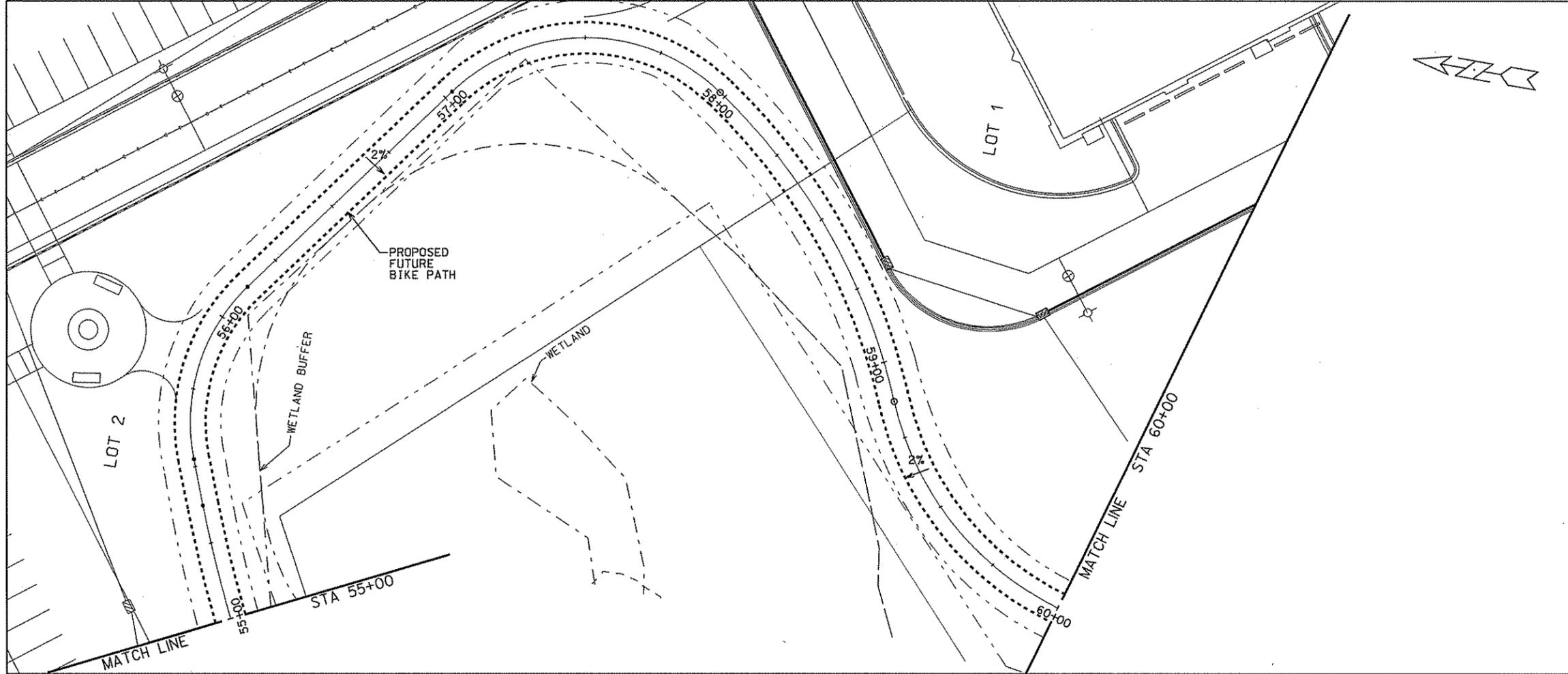
PLOT SCALE: PLOT NAME: REV. DATE: ORIGINATOR: CITY OF MADISON, STREETS DIVISION



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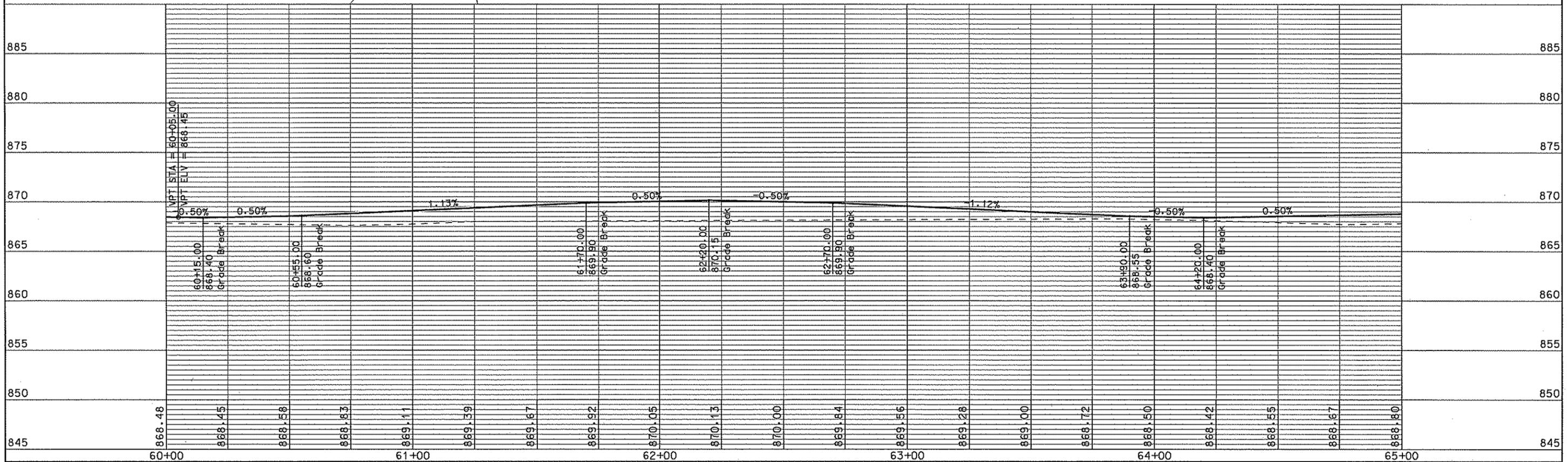
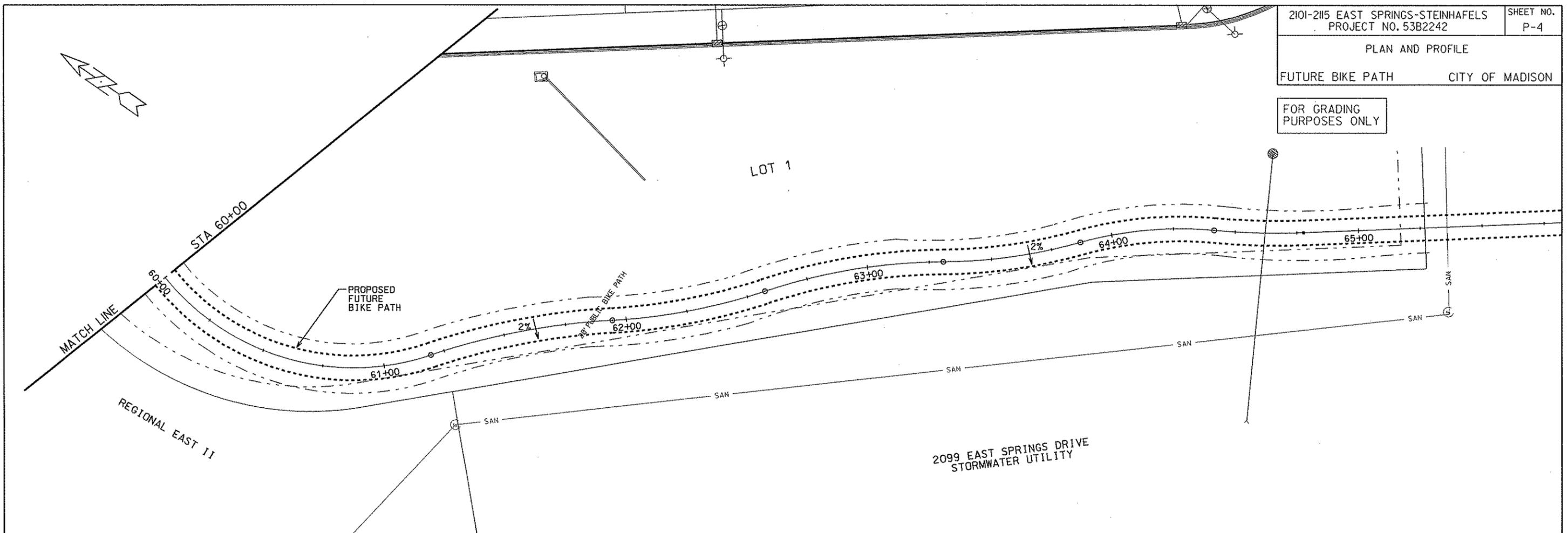


ORIGINATOR: CITY OF MADISON, SIBBEIS DIVISION

REV. DATE: PLOT NAME: PLOT SCALE:

PLAN AND PROFILE
FUTURE BIKE PATH CITY OF MADISON

FOR GRADING
PURPOSES ONLY



ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLOT SCALE:

PLOT NAME:

REV. DATE:

