



Madison, Wisconsin

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P1	ROMAN MIST WAY
P2	STONE ARBOR TRAIL

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U4	STORM SEWER SCHEDULE
W1	HARVEST MOON LANE WATER
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# CITY OF MADISON

## CITY ENGINEERING DIVISION DEPARTMENT OF PUBLIC WORKS

### PLAN OF PROPOSED IMPROVEMENT

# CARDINAL GLENN

## PHASE 8

HARVEST MOON LANE, ROMAN MIST WAY  
& STONE ARBOR TRAIL

CITY PROJECT NO. 53B2359

PUBLIC IMPROVEMENT PROJECT APPROVED  
SEPTEMBER 3, 2013  
BY THE COMMON COUNCIL  
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN  
APPROVED BY:

*[Signature]* 8/2/13  
City Engineer Date

STREET GRADES  
DESIGNED BY:

*[Signature]*  
JAMES M WOLFE  
E-42725  
MADISON, WI  
8-1-13  
PROFESSIONAL ENGINEER

STORM SEWER AND DITCHING  
DESIGNED BY:

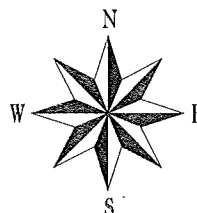
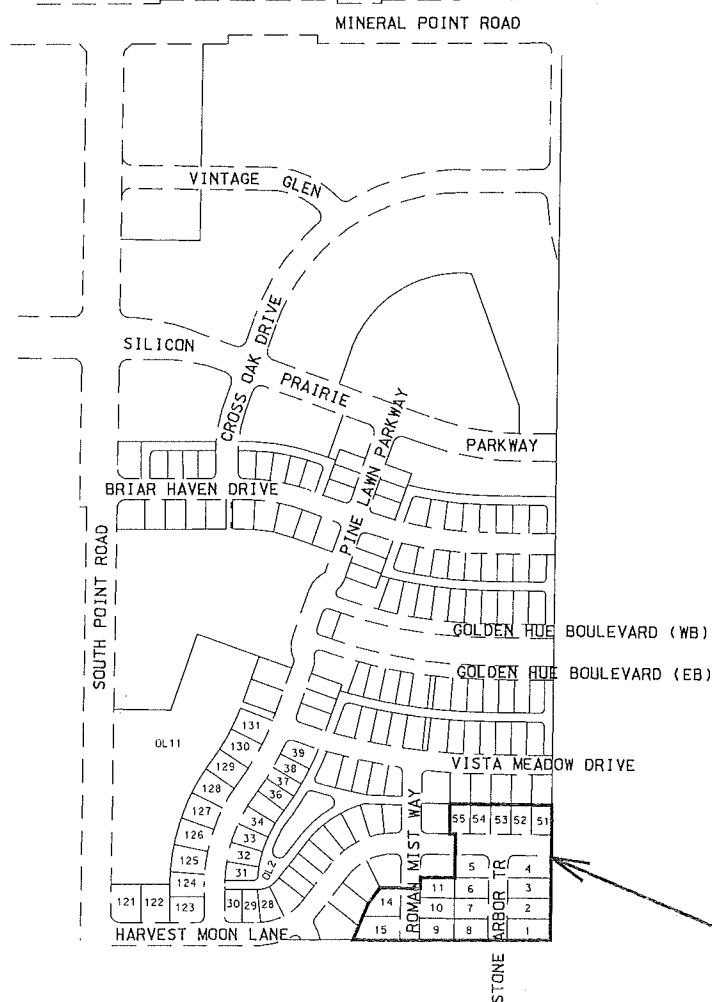
*[Signature]*  
GREGORY  
E-33979  
MADISON, WI  
8/1/13  
PROFESSIONAL ENGINEER

SANITARY SEWER  
DESIGNED BY:

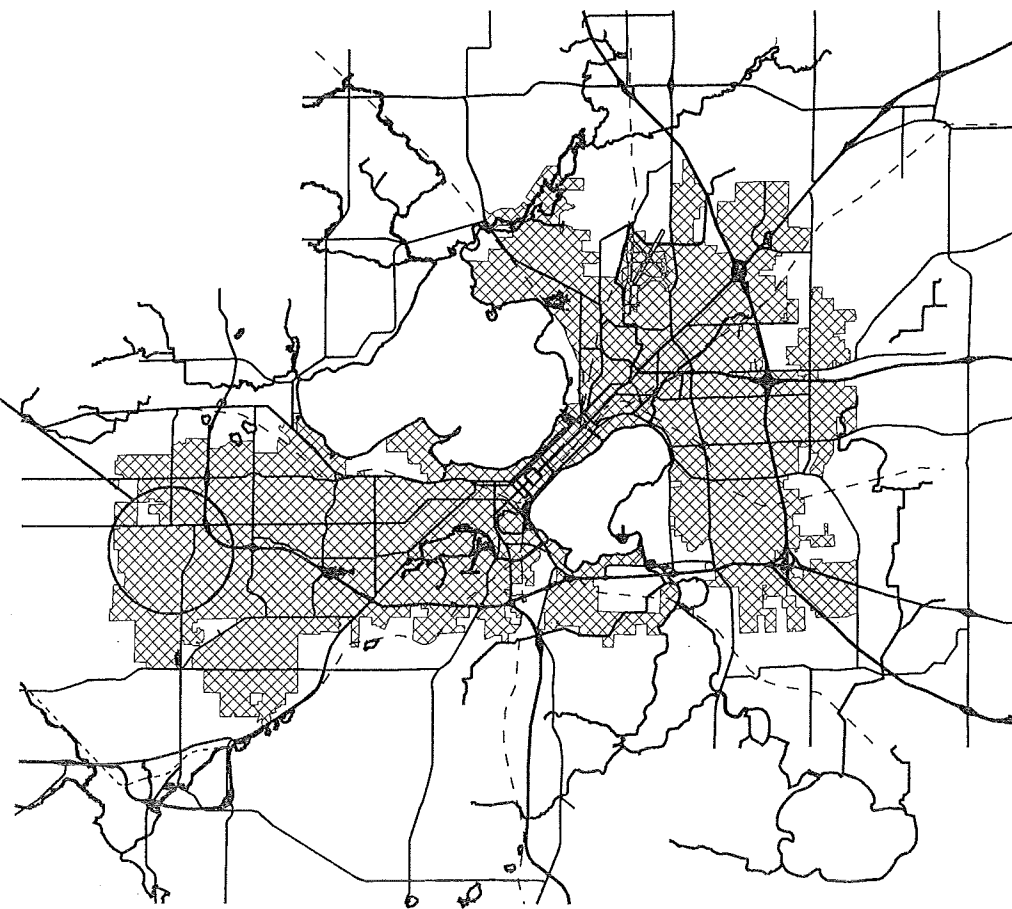
*[Signature]*  
MARK D. MODER  
E-33979  
MADISON, WI  
8/1/13  
PROFESSIONAL ENGINEER

WATER DISTRIBUTION  
DESIGNED BY:

*[Signature]*  
PETER E. HOLMGREN  
E-42156  
MADISON, WI  
8/2/2013  
PROFESSIONAL ENGINEER



**PROJECT LOCATION**



**PHASE LIMITS**

WATER DISTRIBUTION  
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 SHALL BE TYPE "A" PER STANDARD DETAIL DRAWING 4.02.**

**ALL ISLANDS SHALL HAVE TYPE "E" C & G PER S.D.D. 3.08 (EXCEPT WHERE SPECIFIED DIFFERENTLY ON DRAWING) AND MOUNTABLE NOSES PER S.D.D. 3.13. 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.**

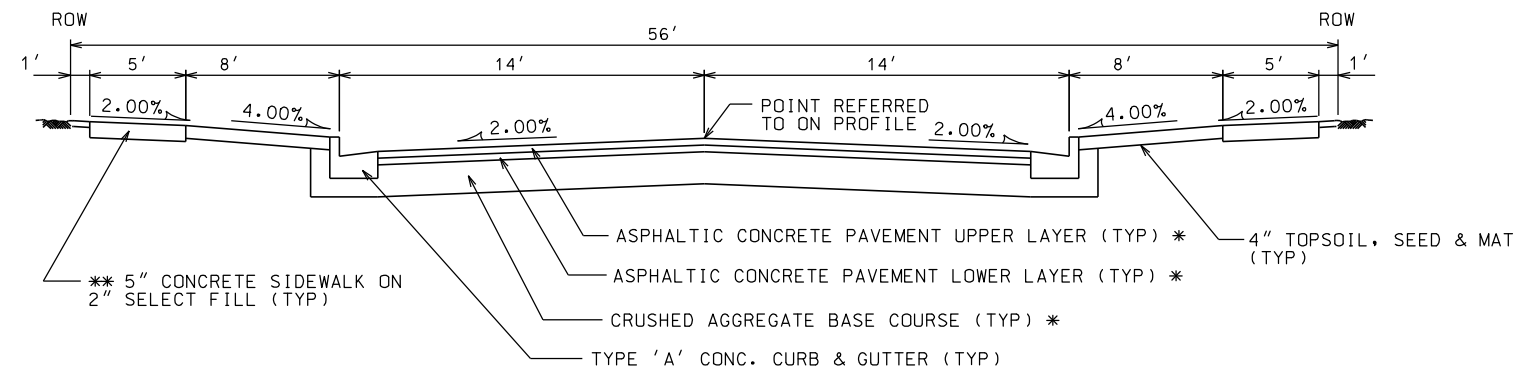
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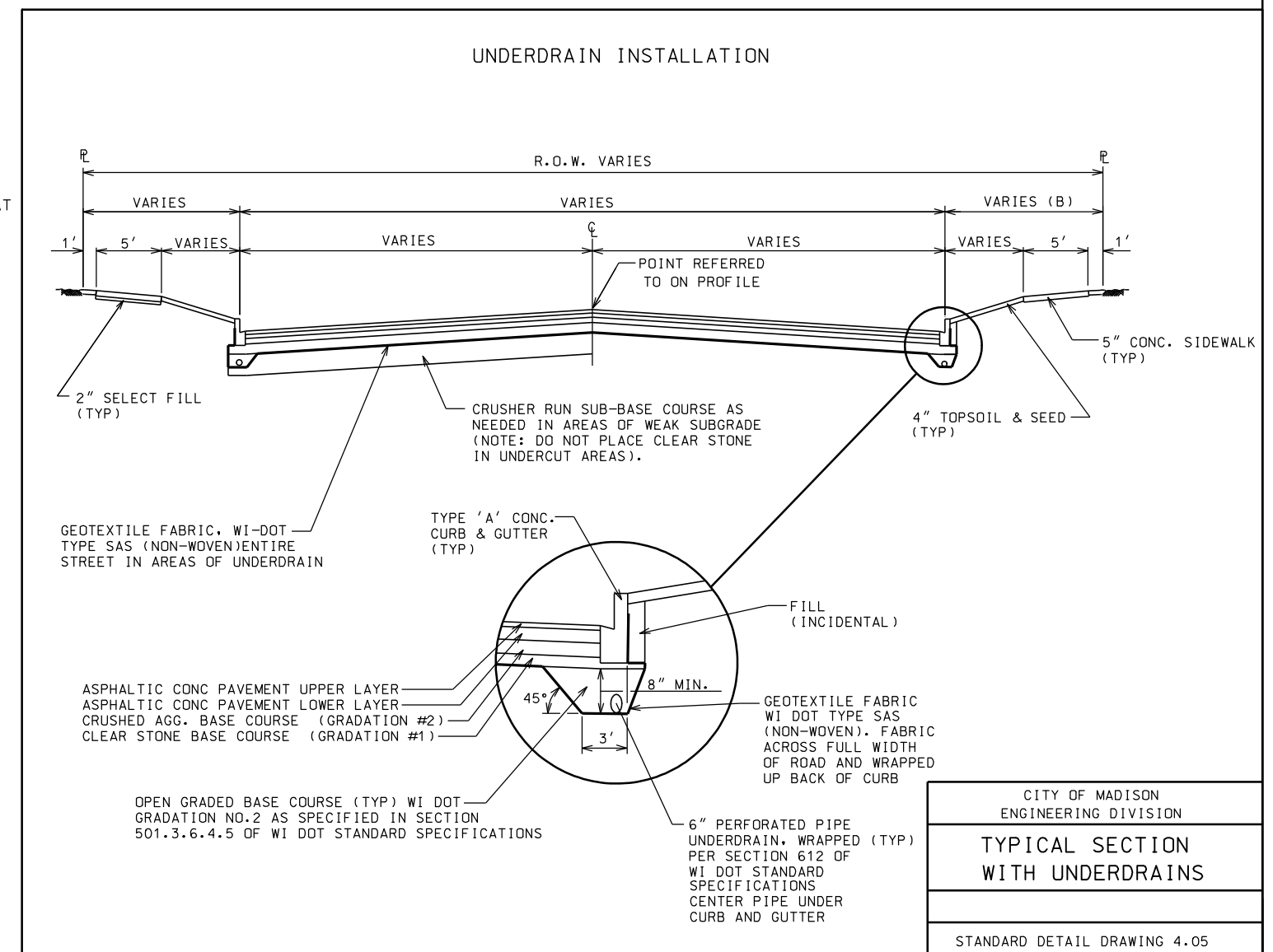
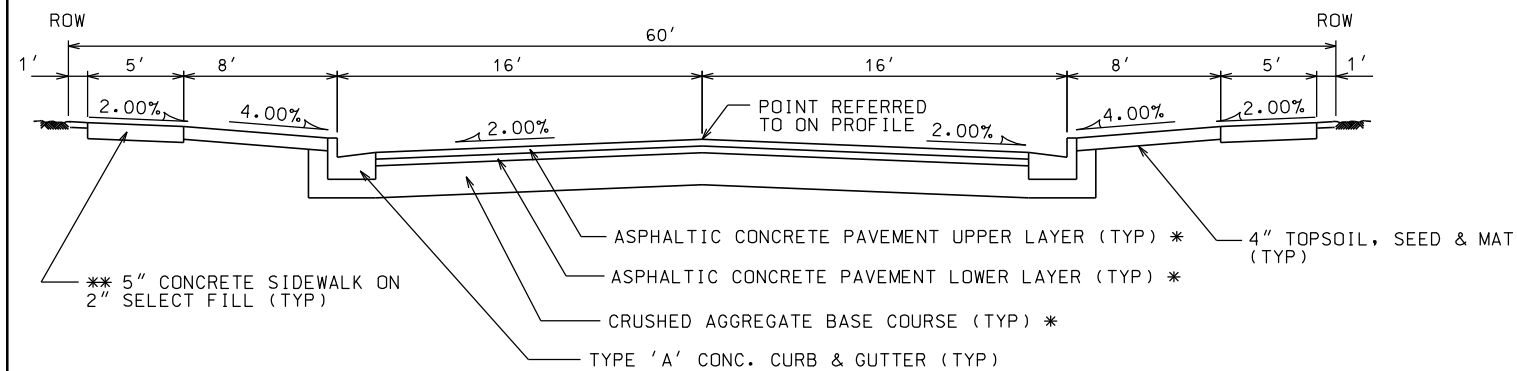
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

TYPICAL SECTION - ROMAN MIST WAY & STONE ARBOR TRAIL



TYPICAL SECTION - HARVEST MOON LANE



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%

\* 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	1.75"
B	6"	4"	E-1	2.25"	E-1	2.00"
C	6"	4"	E-3	3.25"	E-3	2.00"

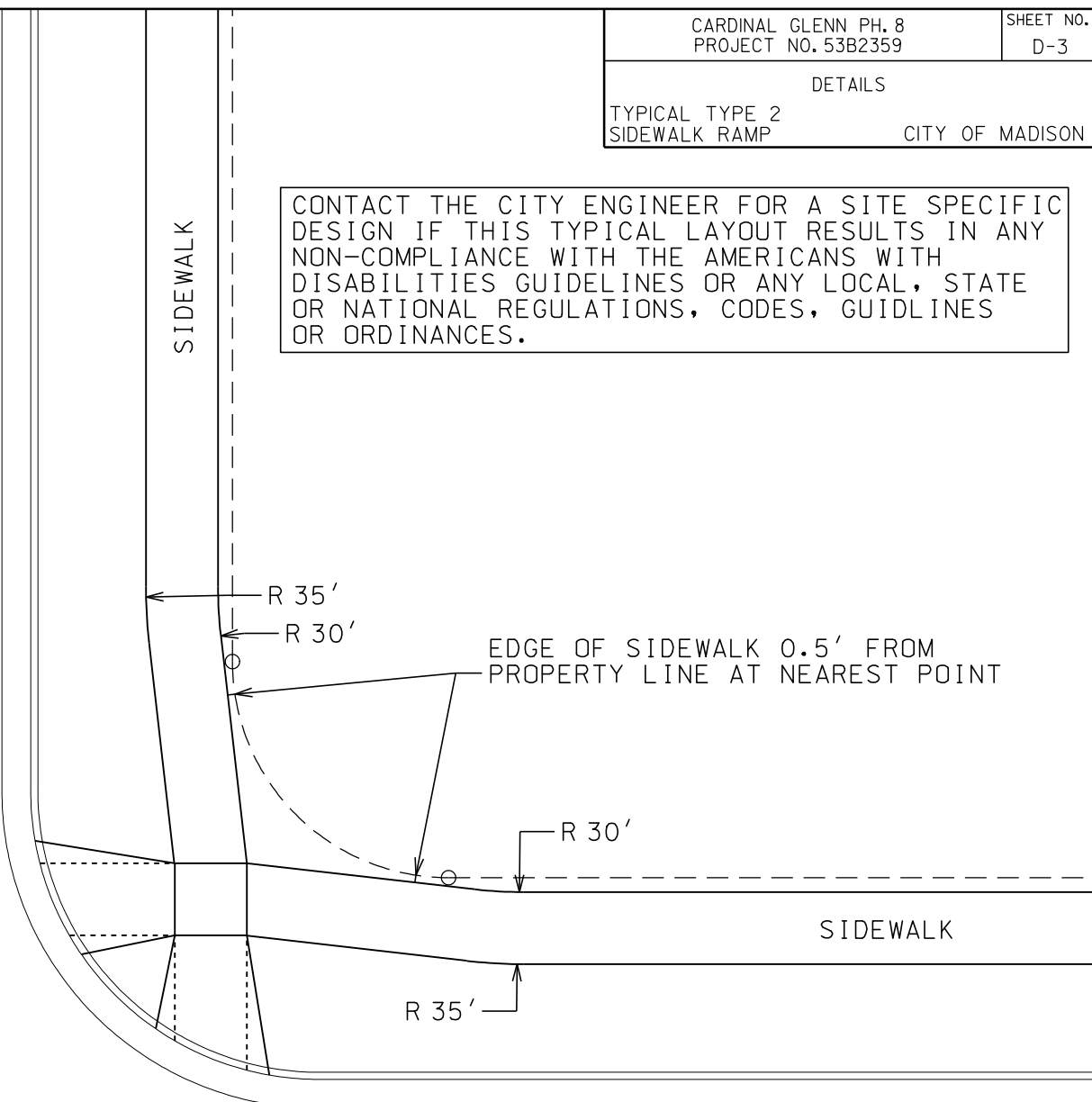
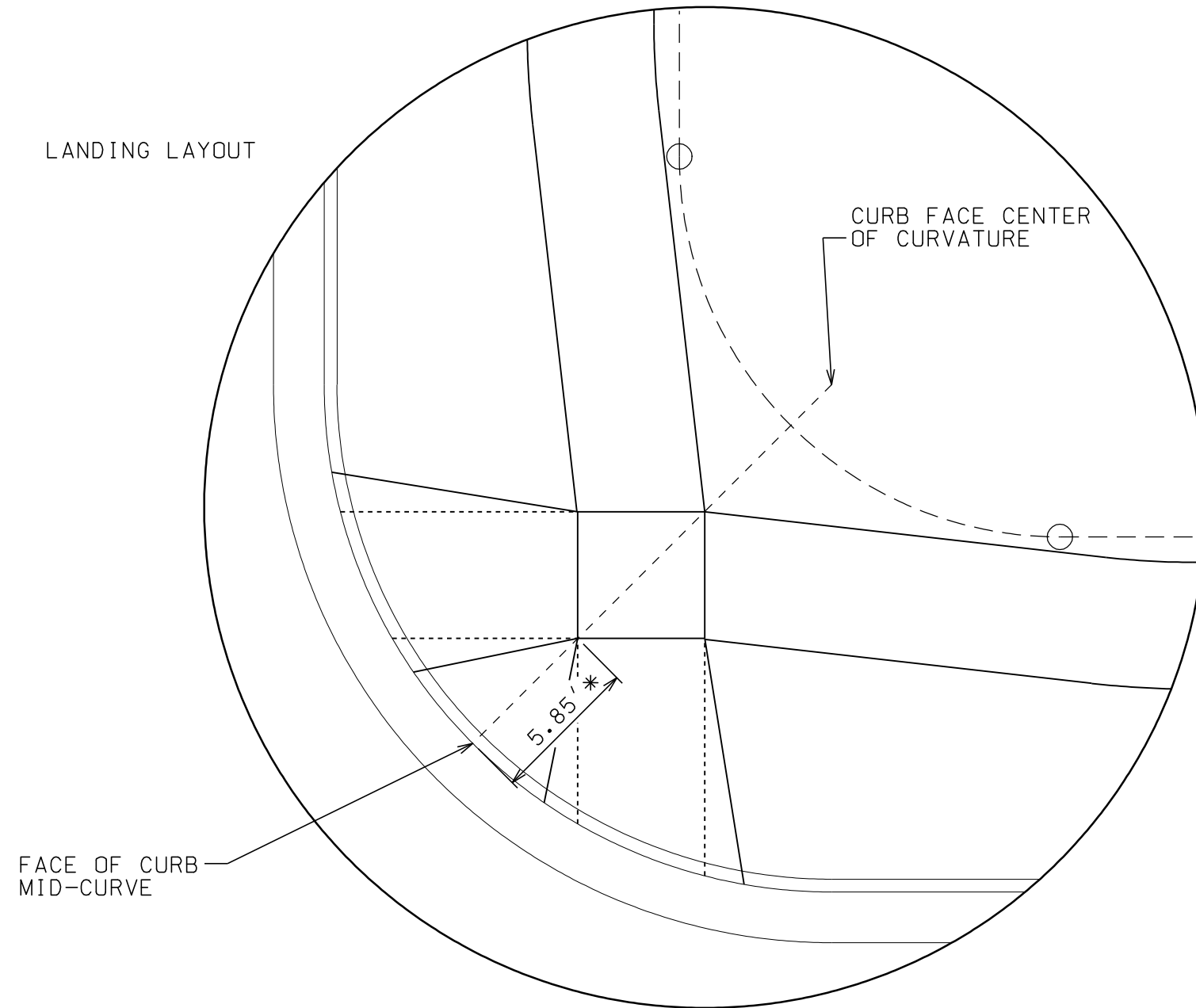
CITY OF MADISON  
ENGINEERING DIVISION  
TYPICAL SECTION  
WITH UNDERDRAINS

STANDARD DETAIL DRAWING 4.05

ANY SIDEWALK ELEVATIONS INDICATED ON THE PLAN NEAR THE RAMPS ARE APPROXIMATE AND NOT TO BE USED FOR CONSTRUCTION. ACTUAL SIDEWALK AND RAMP ELEVATIONS SHALL BE DETERMINED BASED ON THE AS BUILT ELEVATIONS OF THE CURB AND GUTTER.

CONTACT THE CITY ENGINEER FOR A SITE SPECIFIC DESIGN IF THIS TYPICAL LAYOUT RESULTS IN ANY NON-COMPLIANCE WITH THE AMERICANS WITH DISABILITIES GUIDELINES OR ANY LOCAL, STATE OR NATIONAL REGULATIONS, CODES, GUIDELINES OR ORDINANCES.

LANDING LAYOUT

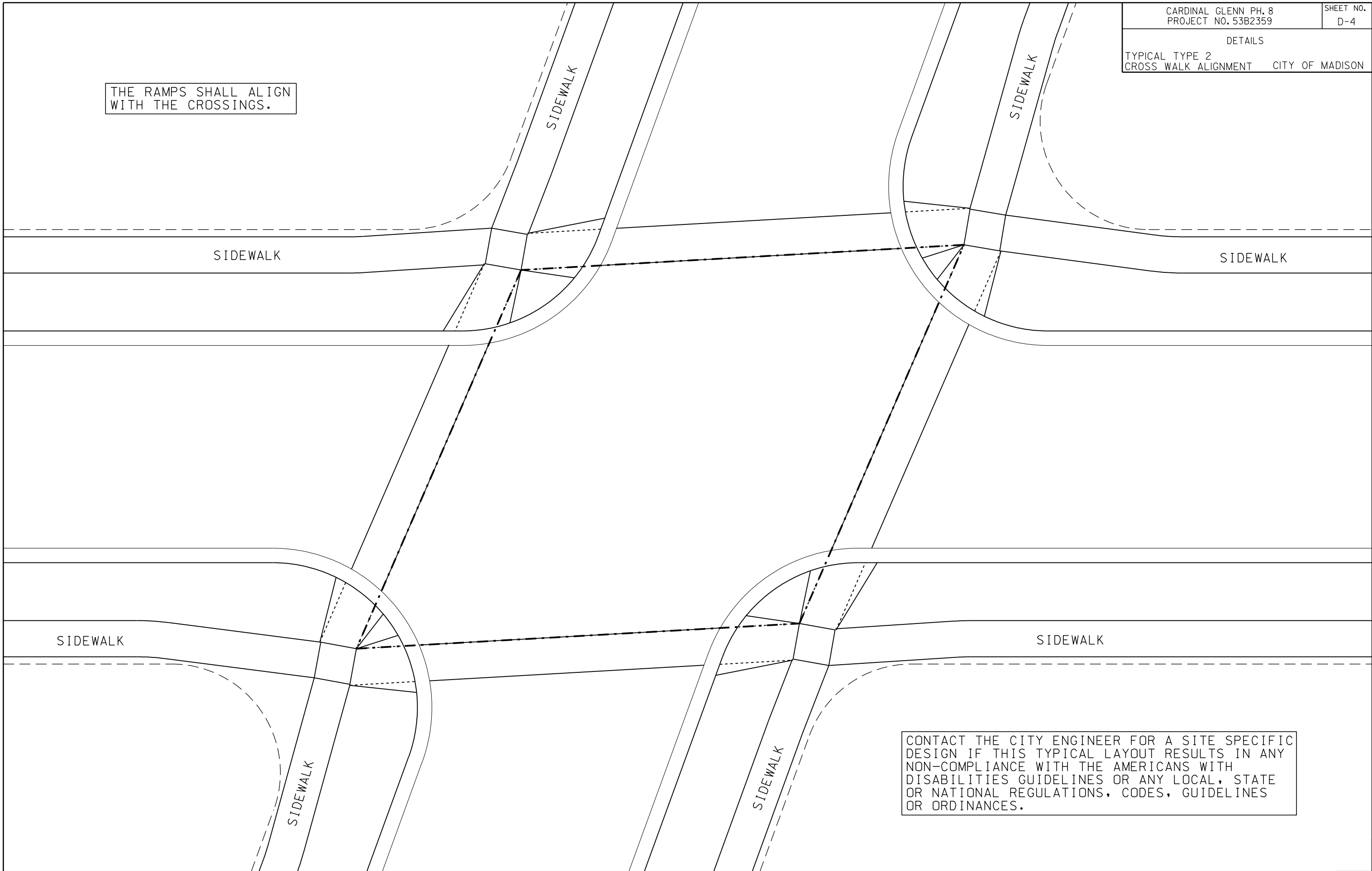


LONGITUDINAL RAMP GRADES SHALL NOT EXCEED 1"/12" NOR BE LESS THAN 2.0% AT ANY POINT. THIS NOTE SHALL TAKE PRECEDENCE OVER ANY ELEVATION OR GRADE INDICATED ON THE PLAN.

SIDEWALK LONGITUDINAL GRADES AT ALL LOCATIONS OTHER THAN RAMPS AND WHERE STREET GRADES ARE MORE THAN 5.0% SHALL NOT EXCEED 5.0%. WHERE STREET GRADES EXCEED 5.0%, THE SIDEWALK LONGITUDINAL GRADE SHALL NOT EXCEED THE STREET GRADE.

\* THE NEAR CORNER OF THE LANDING SHALL BE 5.85' FROM THE FACE OF CURB, UNLESS SPECIFIED OTHERWISE ON THE PLAN. BOTH OPPOSITE CORNERS OF THE LANDING SHALL BE LOCATED ON THE FACE OF CURB RADIUS LINE WHICH PASSES THROUGH THE MIDPOINT OF THE CURB CURVATURE.

THE RAMPS SHALL ALIGN  
WITH THE CROSSINGS.



CONTACT THE CITY ENGINEER FOR A SITE SPECIFIC  
DESIGN IF THIS TYPICAL LAYOUT RESULTS IN ANY  
NON-COMPLIANCE WITH THE AMERICANS WITH  
DISABILITIES GUIDELINES OR ANY LOCAL, STATE  
OR NATIONAL REGULATIONS, CODES, GUIDELINES  
OR ORDINANCES.

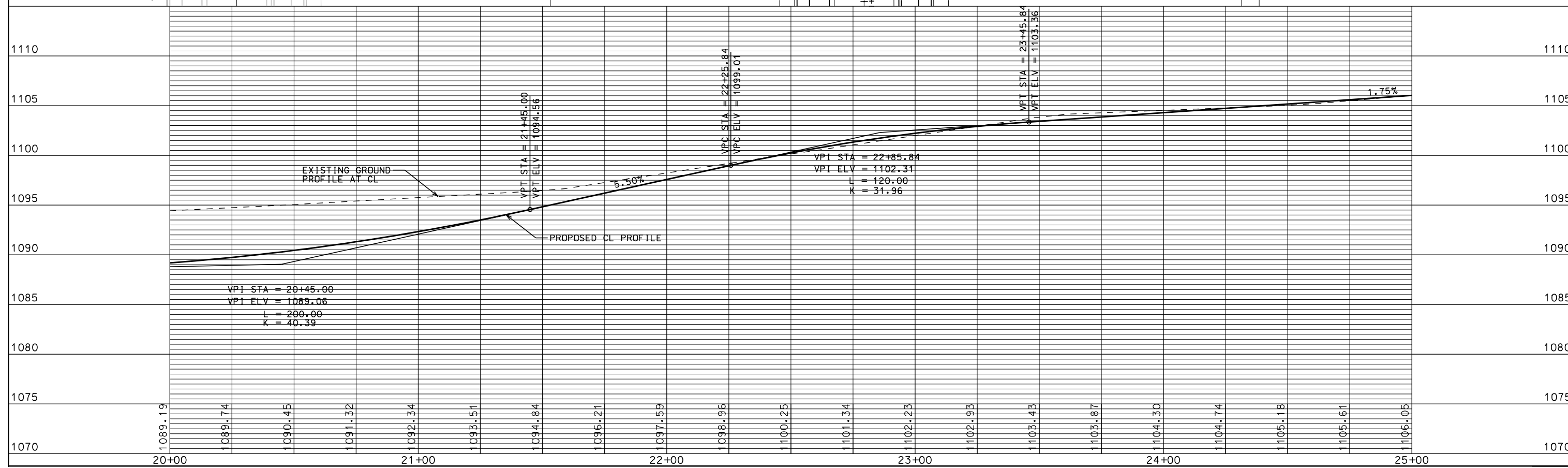
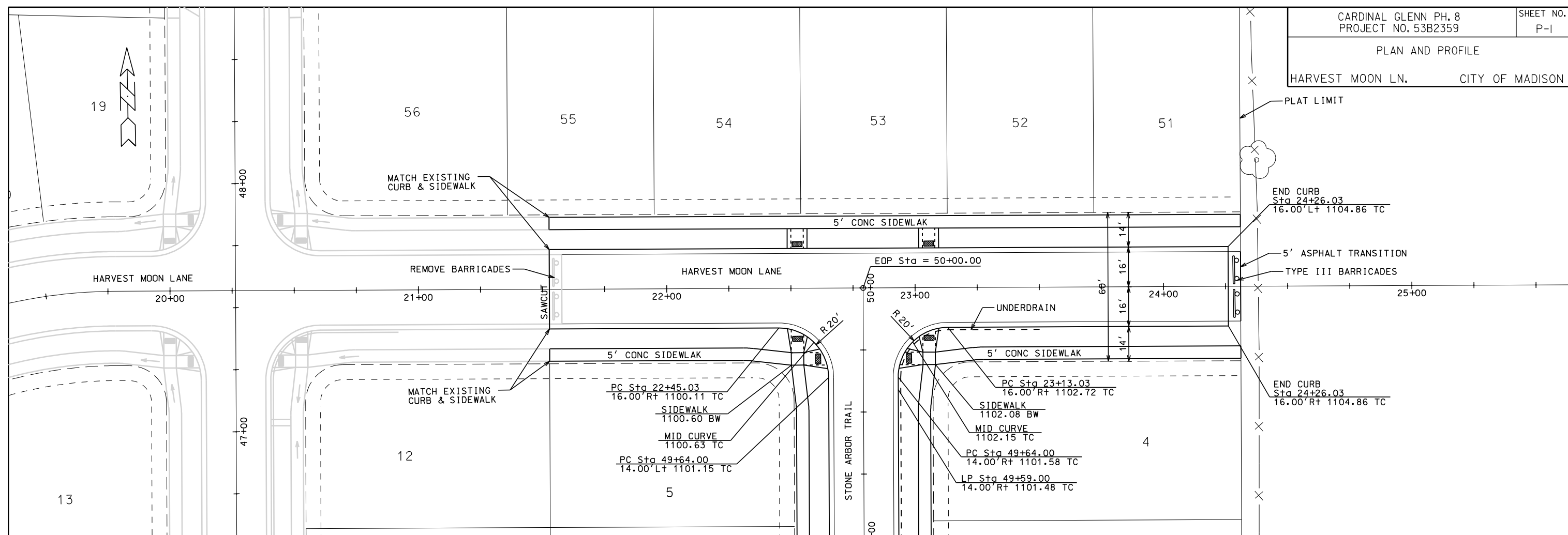
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PLOT NAME: .....

REV. DATE: .....

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE  
HARVEST MOON LN. CITY OF MADISON



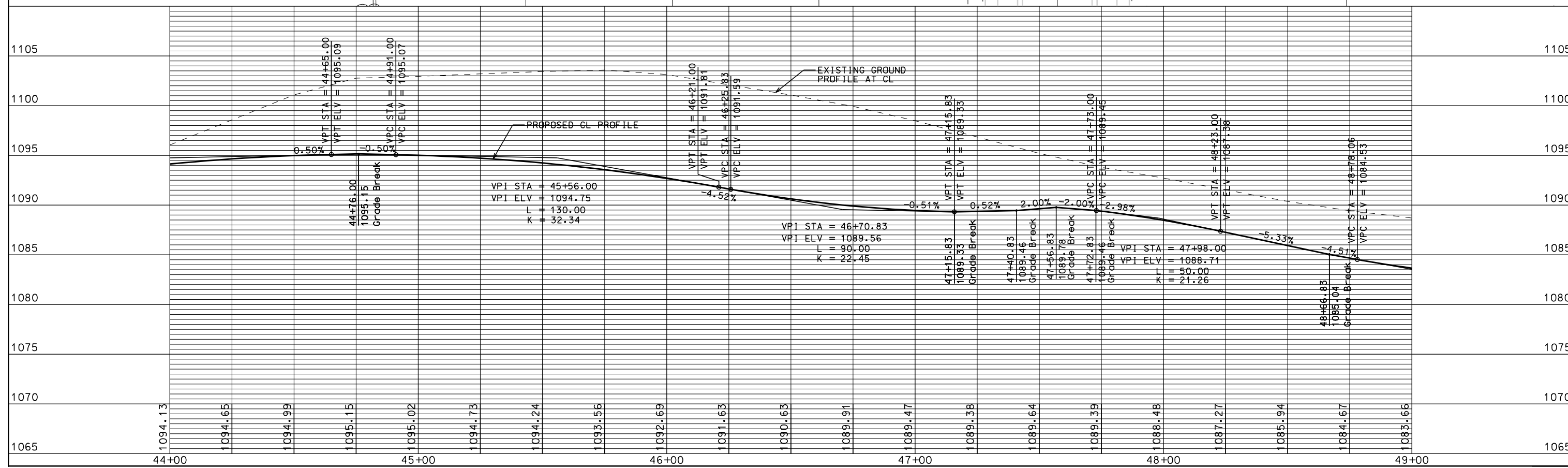
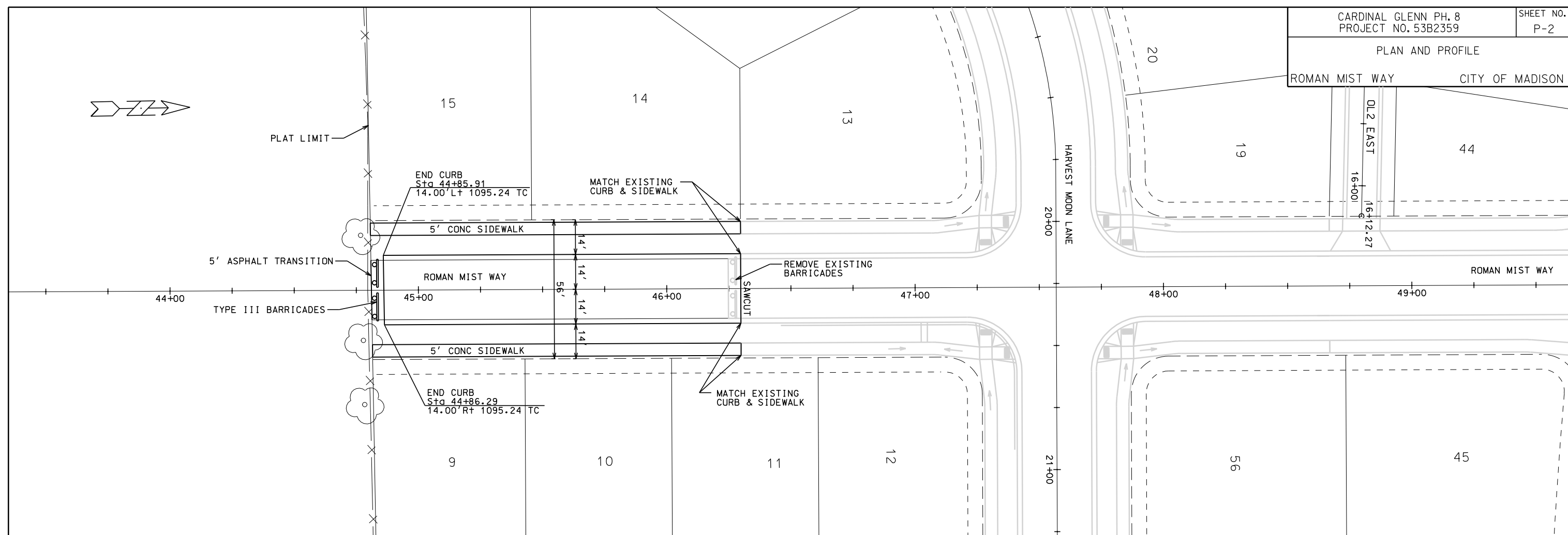
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLOT SCALE: 1"=40'

PLOT NAME: 53B2359.P1

REV. DATE: 7/15/2013

PLAN AND PROFILE  
ROMAN MIST WAY CITY OF MADISON



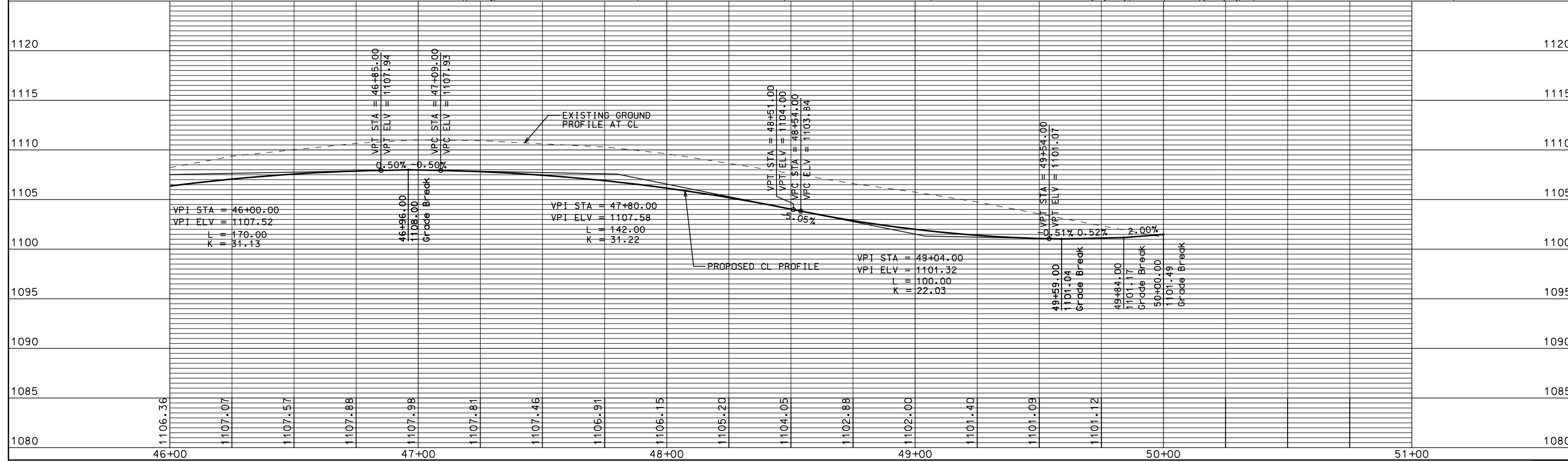
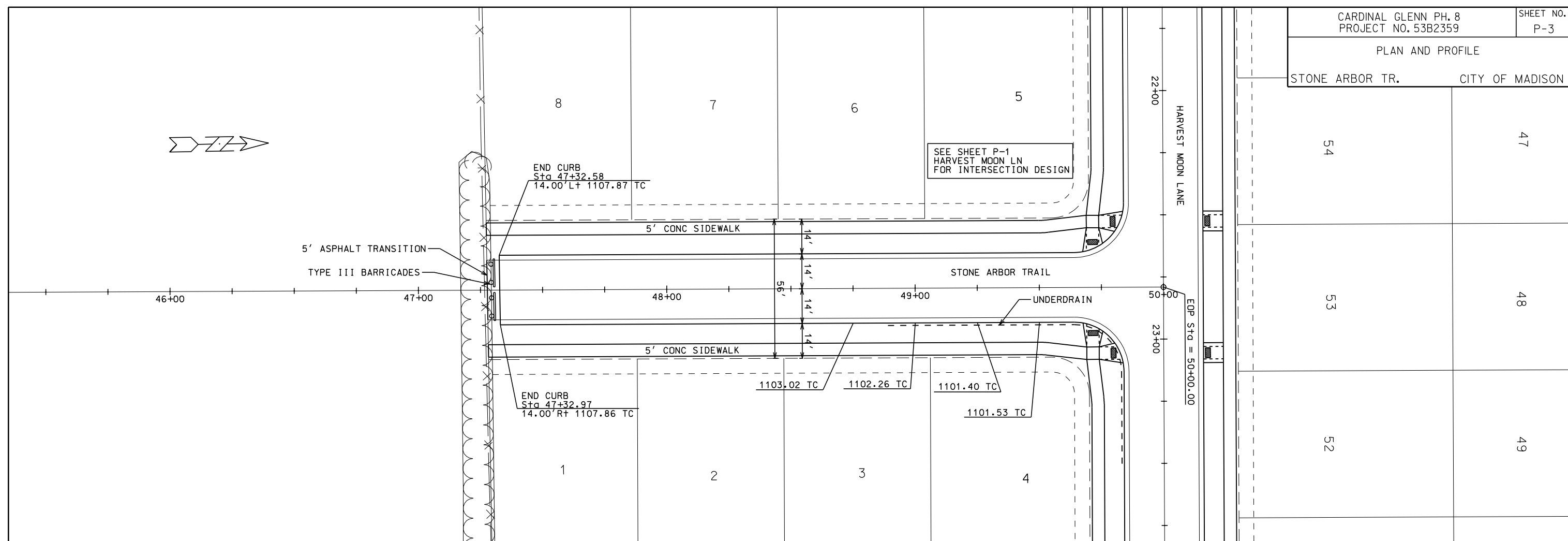
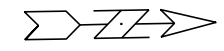
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE  
STONE ARBOR TR. CITY OF MADISON



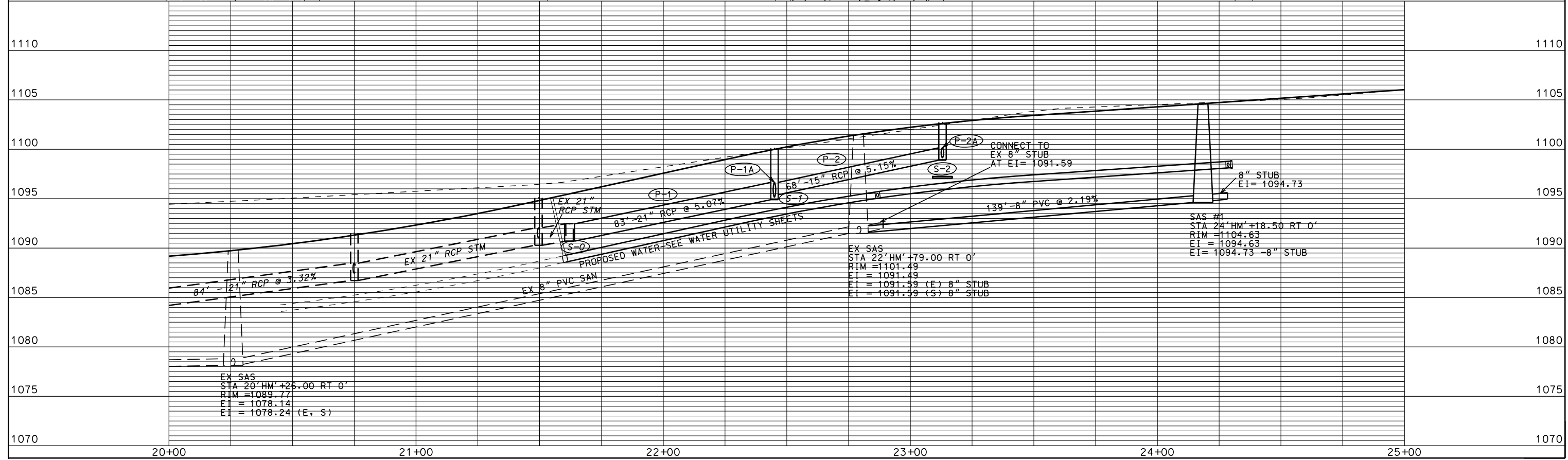
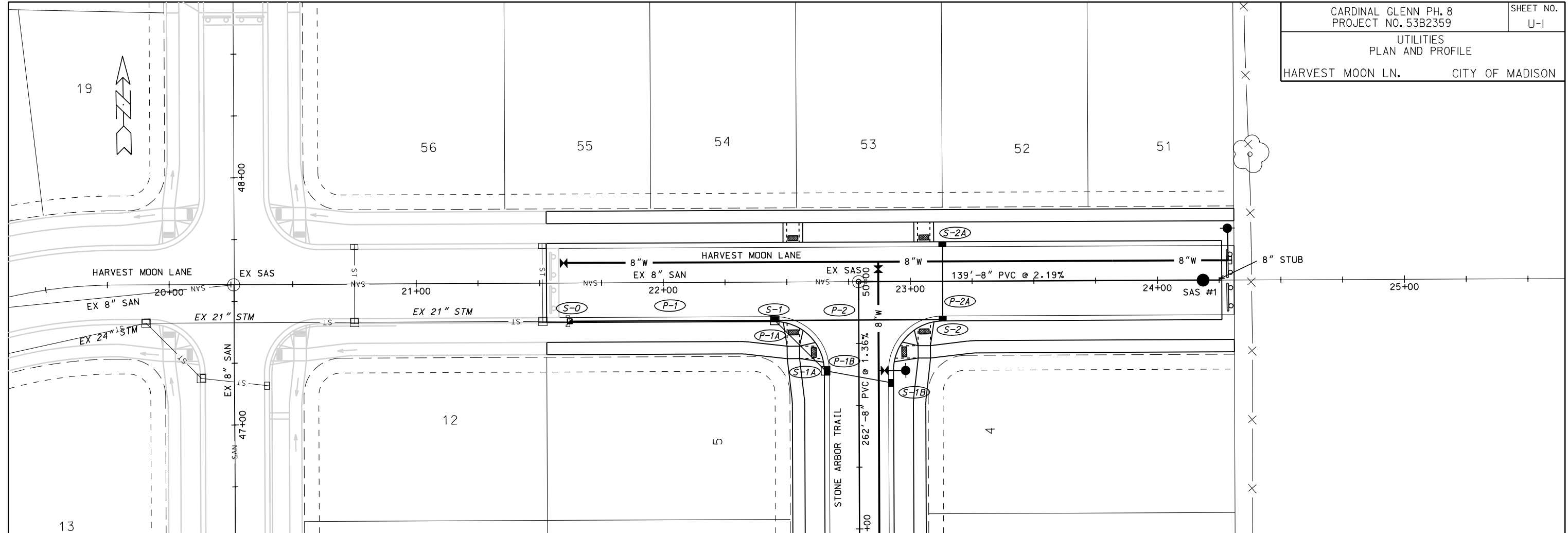
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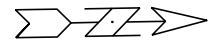




ORIGINATOR: CITY OF MADISON, STREETS DIVISION

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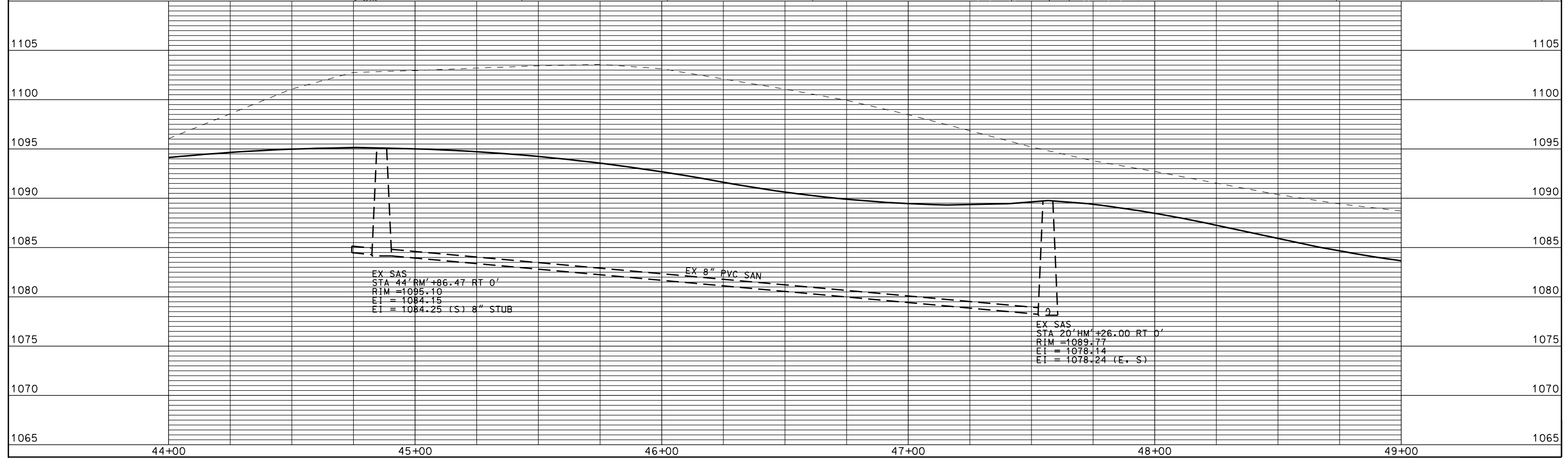
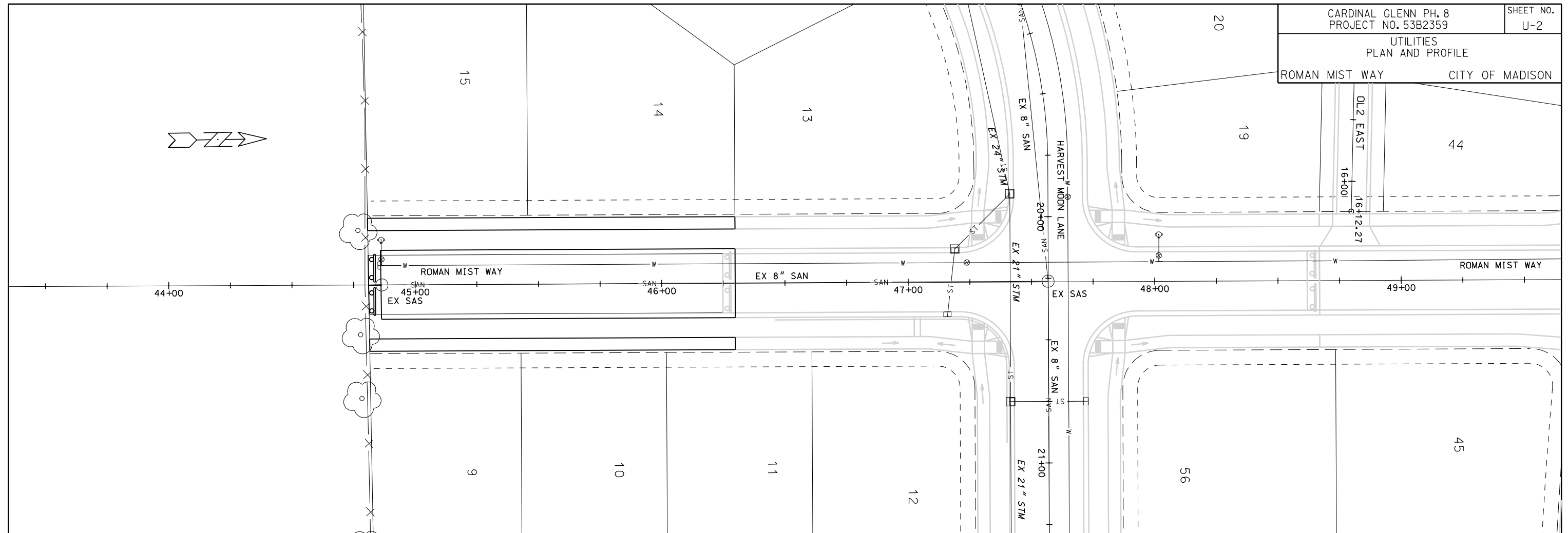
UTILITIES  
PLAN AND PROFILE  
ROMAN MIST WAY CITY OF MADISON



PLOT SCALE: .....

PLOT NAME: .....

REV. DATE: .....

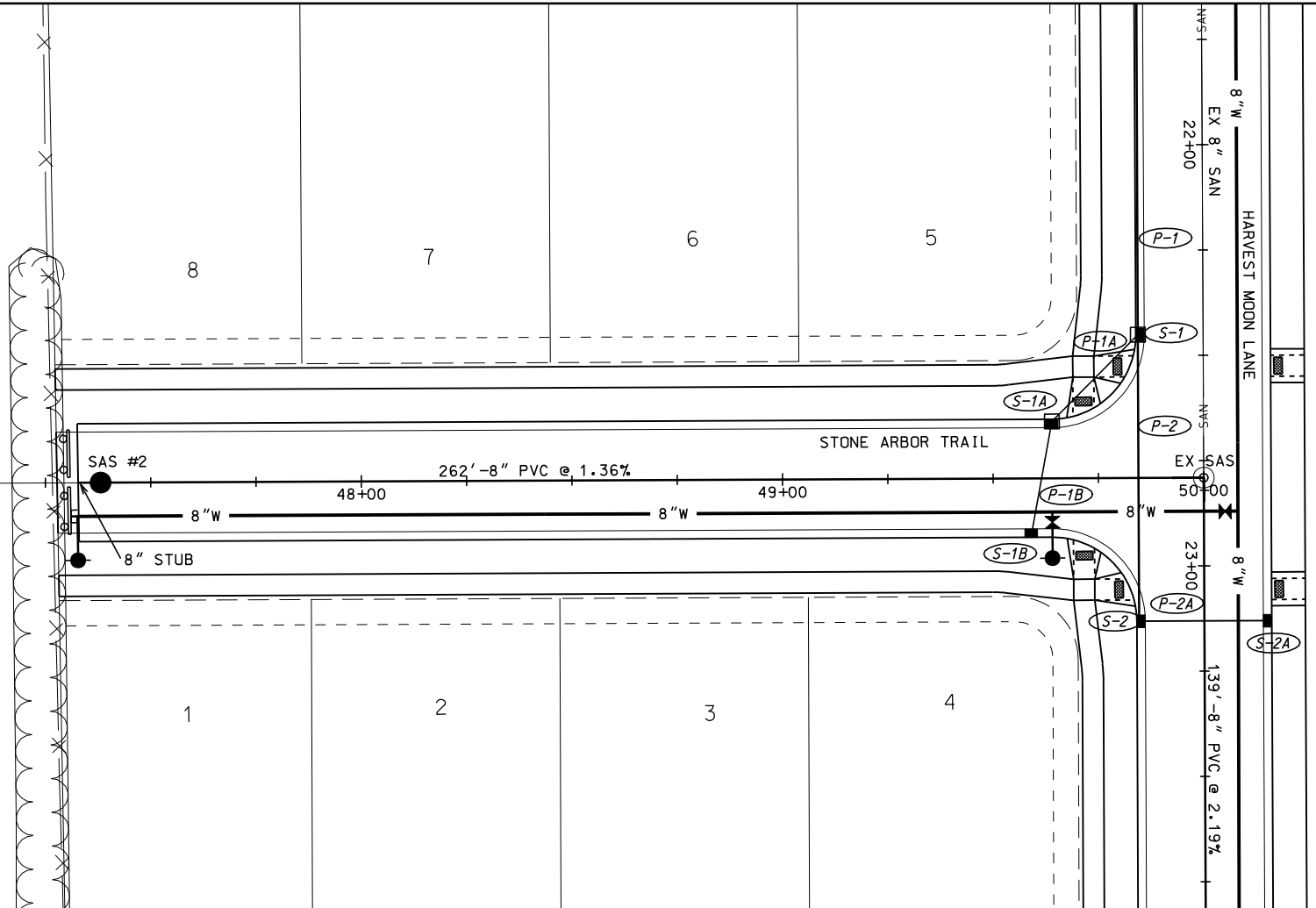
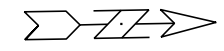


EX SAS  
STA 44' RM' +86.47 RT 0'  
RIM = 1095.10  
E1 = 1084.15  
E1 = 1084.25 (S) 8" STUB

EX 8" PVC SAN

EX SAS  
STA 20' HM' +26.00 RT 0'  
RIM = 1089.77  
E1 = 1078.14  
E1 = 1078.24 (E, S)

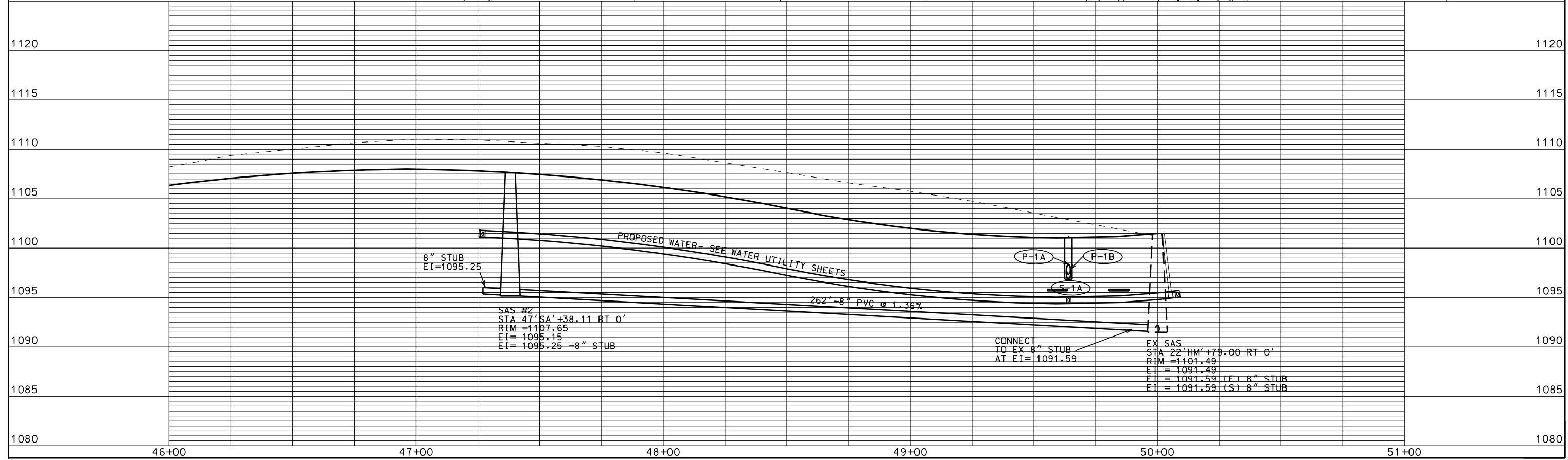
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE: .....

PLOT NAME: .....

REV. DATE: .....



ORIGINATOR: CITY OF MADISON, STREETS DIVISION

# STORM SEWER SCHEDULE

## ALIGNMENT CODES:

HM = HARVEST MOON LANE  
SA = STONE ARBOR TRAIL

CARDINAL GLEN, PH. 8  
PROJECT NO. 53B2359

SHEET NO.  
U-4

STORM SEWER SCHEDULE

CITY OF MADISON

### STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
S-0	21'HM'+62.10	RT-15.50	CONCRETE COLLAR	-	1090.70	-	-
S-1	22'HM'+45.03	RT-15.50	3X3 SAS	1100.11	1094.91	5.20	W/ R-3067-7004-V
S-1A	49'SA'+64.00	LT-13.50	3X3 SAS	1101.15	1096.85	4.30	W/ R-3067-7004
S-1B	49'SA'+59.00	RT-13.50	H INLET	1101.48	1098.08	3.40	LP; W/ R-3067-7004
S-2	23'HM'+13.03	RT-15.50	H INLET	1102.72	1098.91	3.81	FP; W/ R-3067-7004-V
S-2A	23'HM'+13.03	LT-15.50	H INLET	1102.72	1099.32	3.40	W/ R-3067-7004-V

### PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	LGTH (FT)	DISCH. E.I.	INLET E.I.	SLOPE (%)	PIPE SIZE	TYPE	NOTES
P-1	S-0	S-1	83	1090.70	1094.91	5.07%	21"	RCP	-
P-1A	S-1	S-1A	29	1095.16	1096.85	5.83%	18"	RCP	-
P-1B	S-1A	S-1B	27	1097.35	1098.08	2.70%	12"	RCP	-
P-2	S-1	S-2	68	1095.41	1098.91	5.15%	15"	RCP	-
P-2A	S-2	S-2A	31	1099.16	1099.32	0.52%	12"	RCP	-

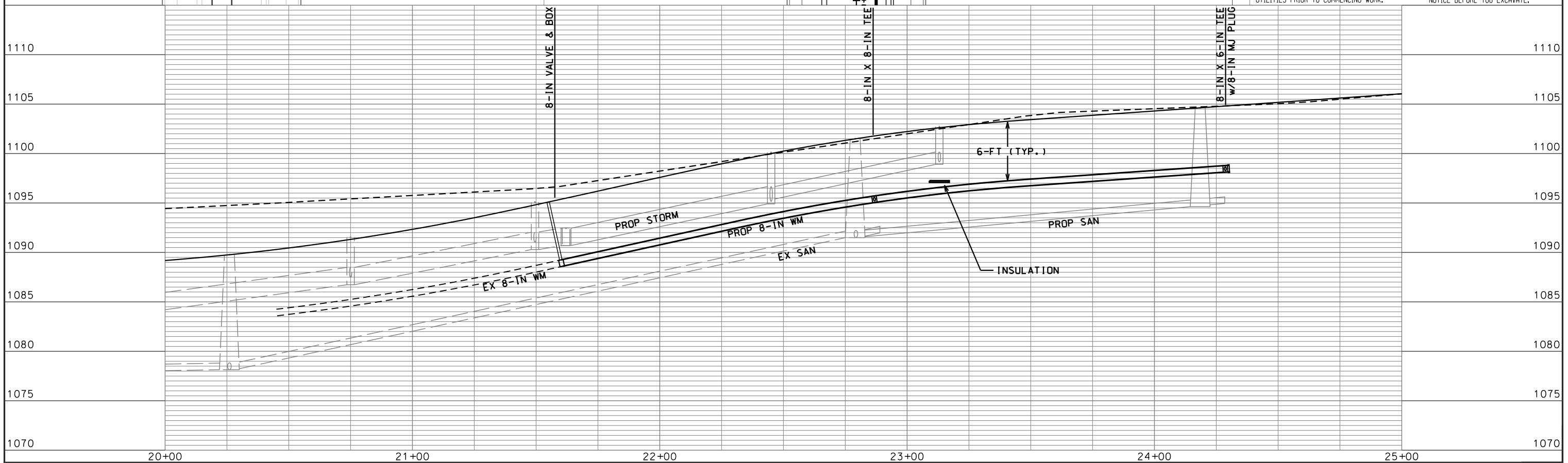
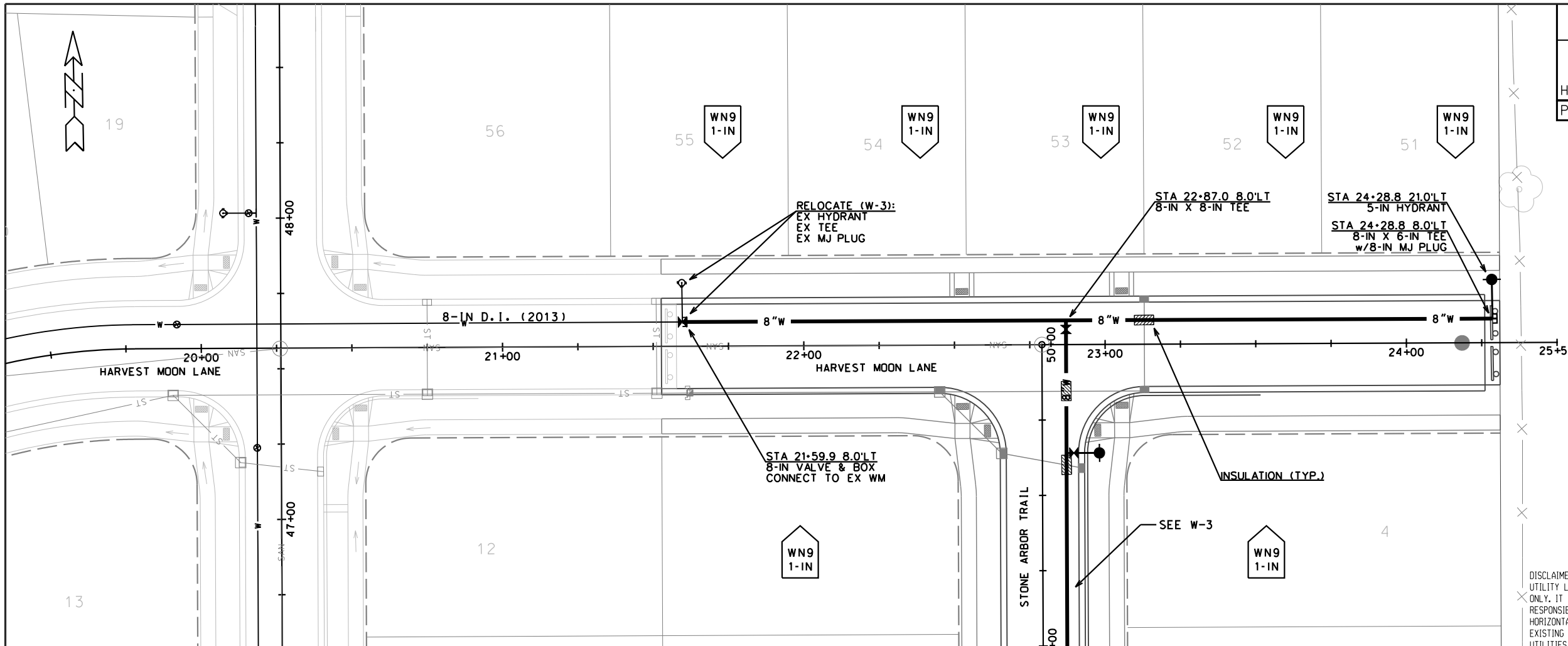
### SPECIFIC NOTES

### 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
- 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 ELIA E. ACOSTA OF CITY ENGINEERING AT (608) 266-4096 FOR PRECAST APPROVALS, OR FAX SHOP DRAWINGS TO (608)264-9275.

WATER PLAN AND PROFILE

HARVEST MOON LN. CITY OF MADISON  
PM: DENNIS CAWLEY DESIGNER: PEH



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

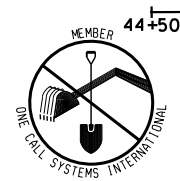
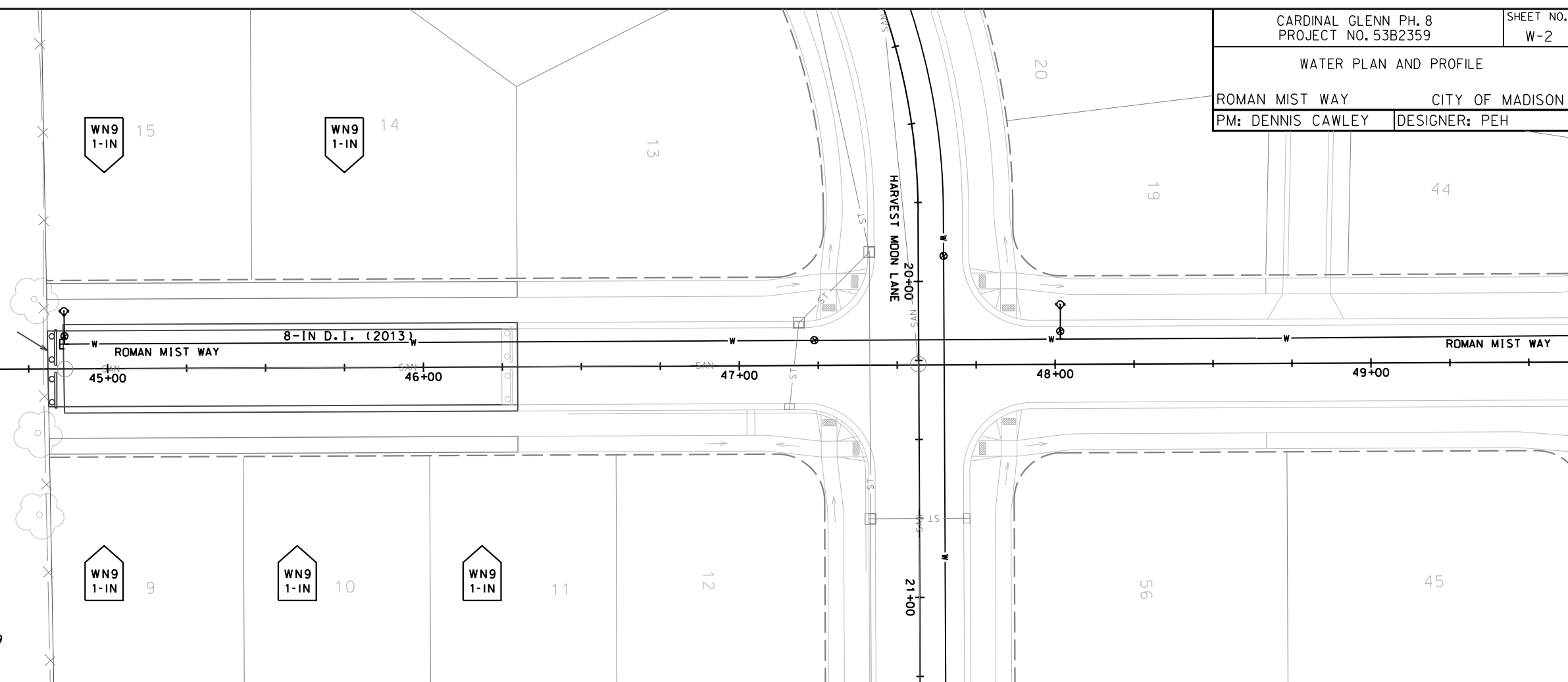
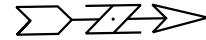
**CALL DIGGERS HOTLINE 811**  
or 1-800-242-8511  
**TOLL FREE**  
**FAX-A-LOCATE 1-800-338-3860**  
**TDD (FOR HEARING IMPAIRED) 1-800-542-2289**  
WIS. STATUTE 182.0175 (1974)  
REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

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.

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

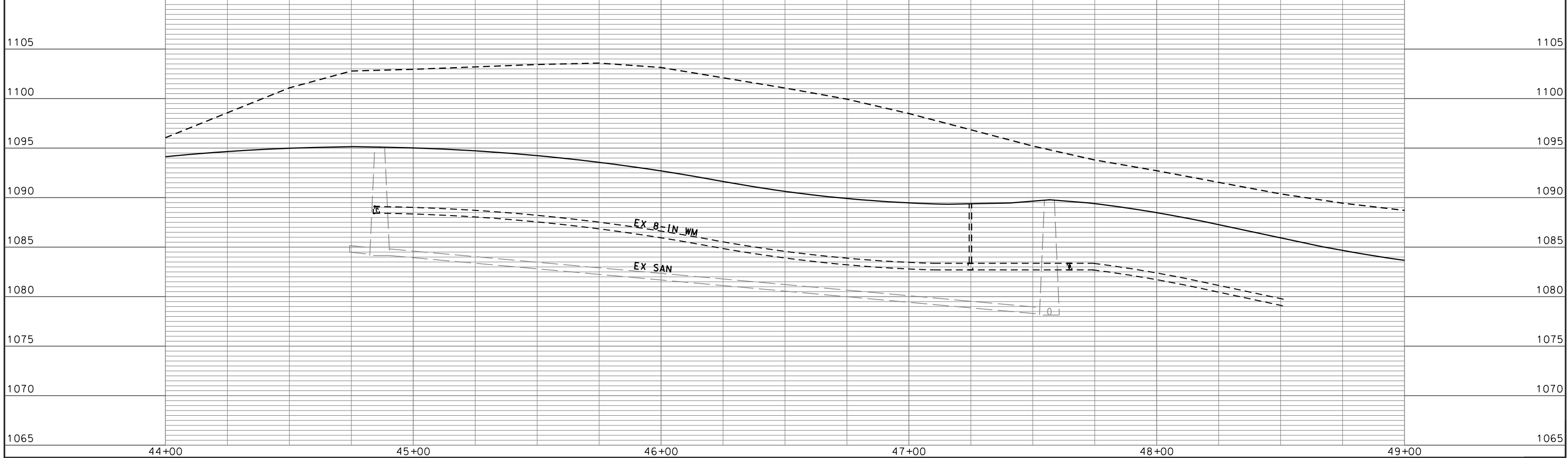
WATER PLAN AND PROFILE

ROMAN MIST WAY CITY OF MADISON  
PM: DENNIS CAWLEY DESIGNER: PEH



TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN  
**CALL DIGGERS HOTLINE 811**  
or 1-800-242-8511  
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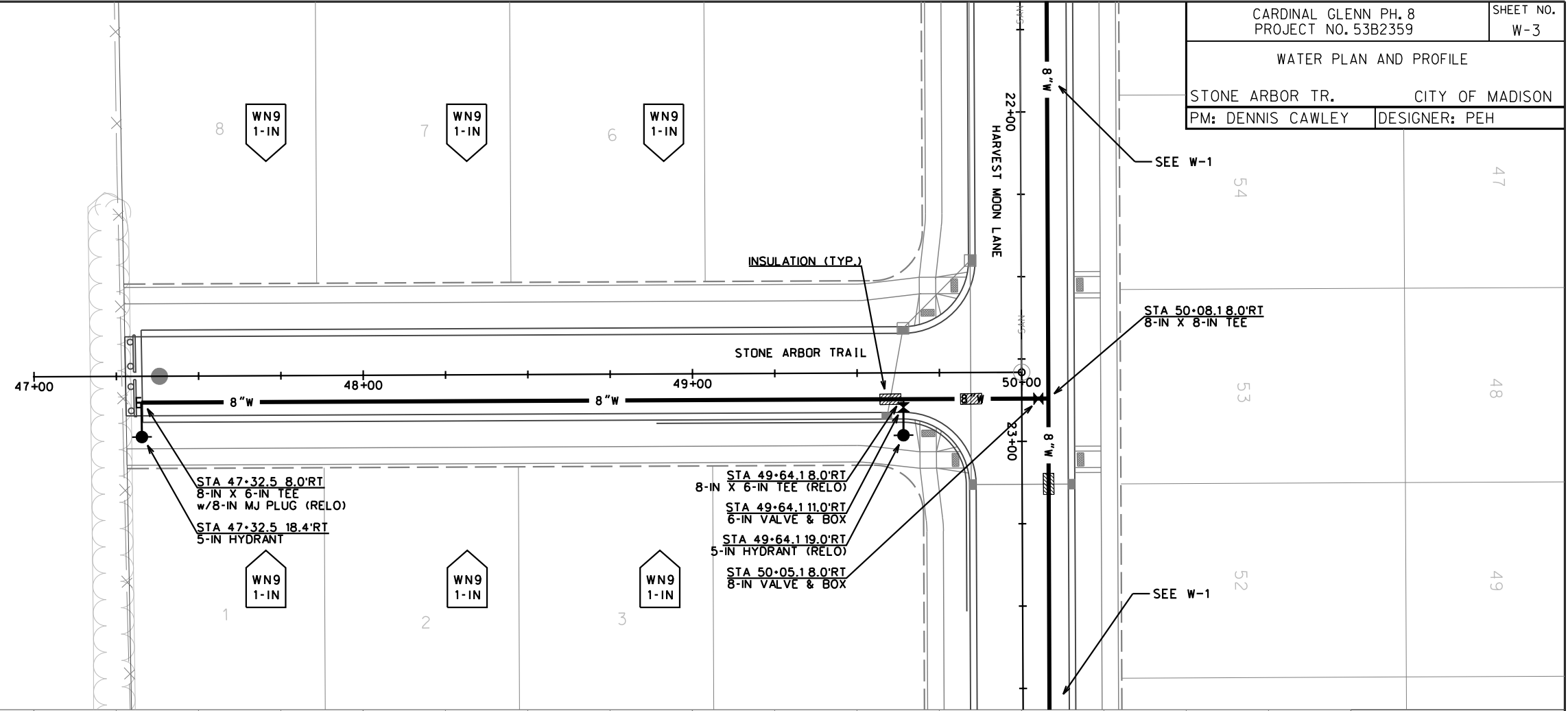
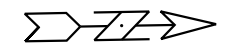


PLOT SCALE: .....

PLOT NAME: .....

REV. DATE: .....

ORIGINATOR: CITY OF MADISON - STREETS DIVISION



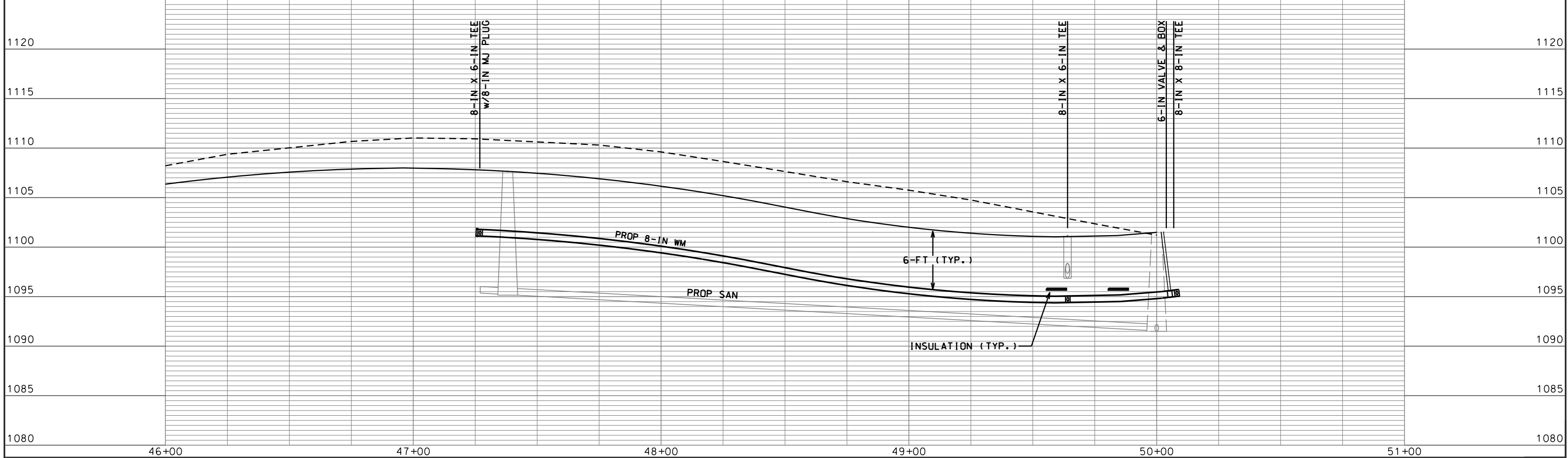
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TOLL FREE

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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.

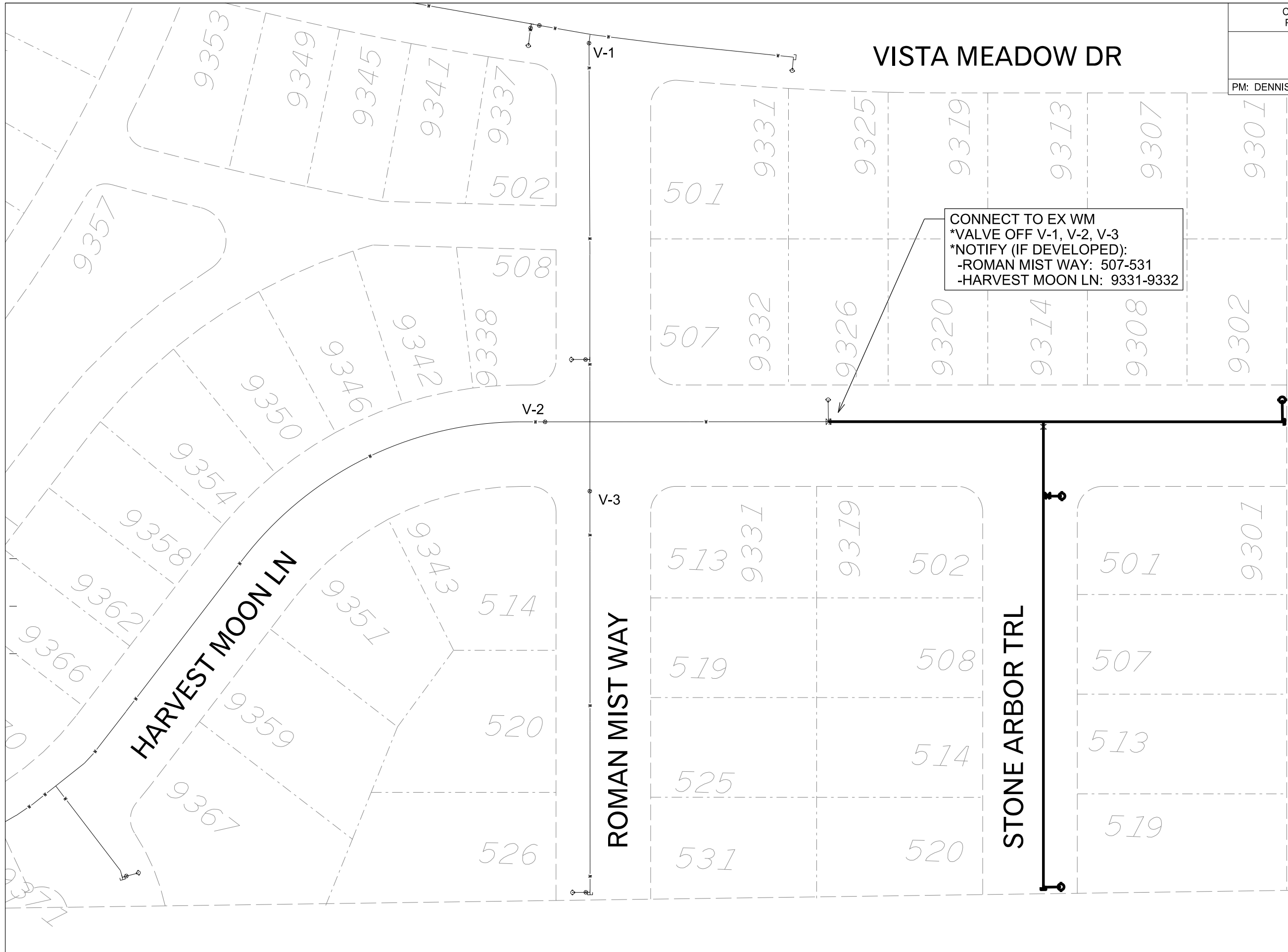


PLOT SCALE: .....  
PLOT NAME: .....  
REV. DATE: .....

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

# VISTA MEADOW DR

CONNECT TO EX WM  
\*VALVE OFF V-1, V-2, V-3  
\*NOTIFY (IF DEVELOPED):  
-ROMAN MIST WAY: 507-531  
-HARVEST MOON LN: 9331-9332



PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

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**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 DISTRUPTION OF SERVICE TO EXISTING CUSTOMERS. NOTIFY PER CONTRACT REQUIREMENTS OF ANY PLANNED WATER OUTAGE.
4. EXISTING WATER MAIN SHALL REMAIN IN SERVICE UNTIL NEW WATER MAIN IS TESTED AND ACCEPTED BY MADISON WATER UTILITY AND ALL SERVICES ARE RECONNECTED.
5. 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 (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

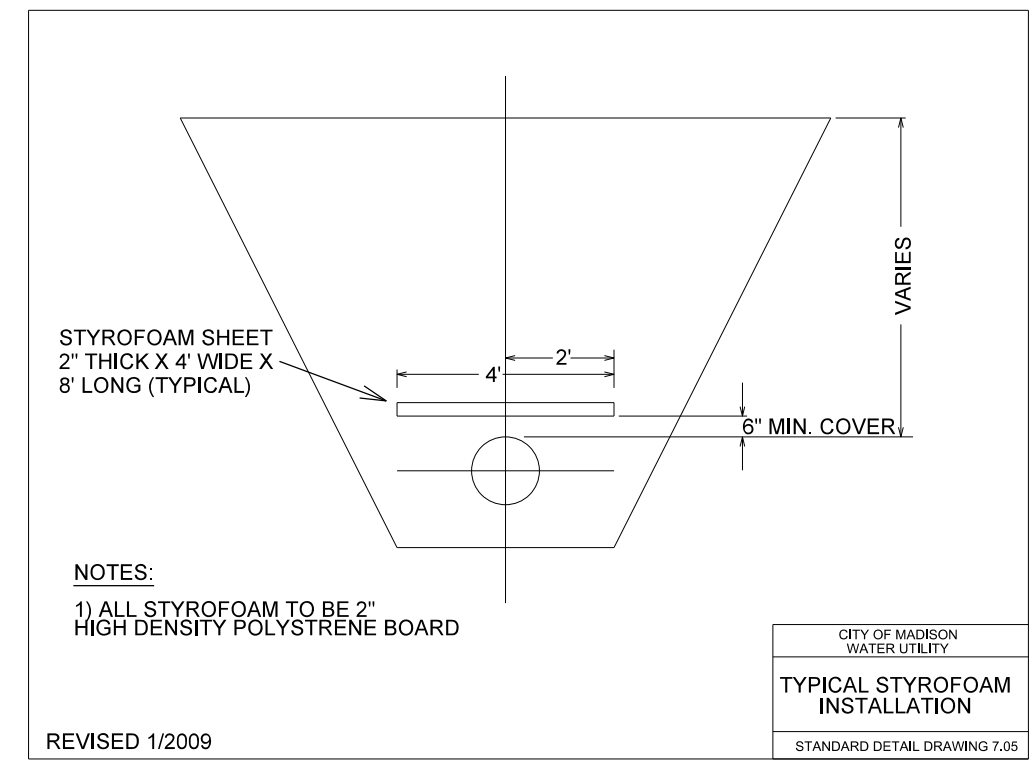
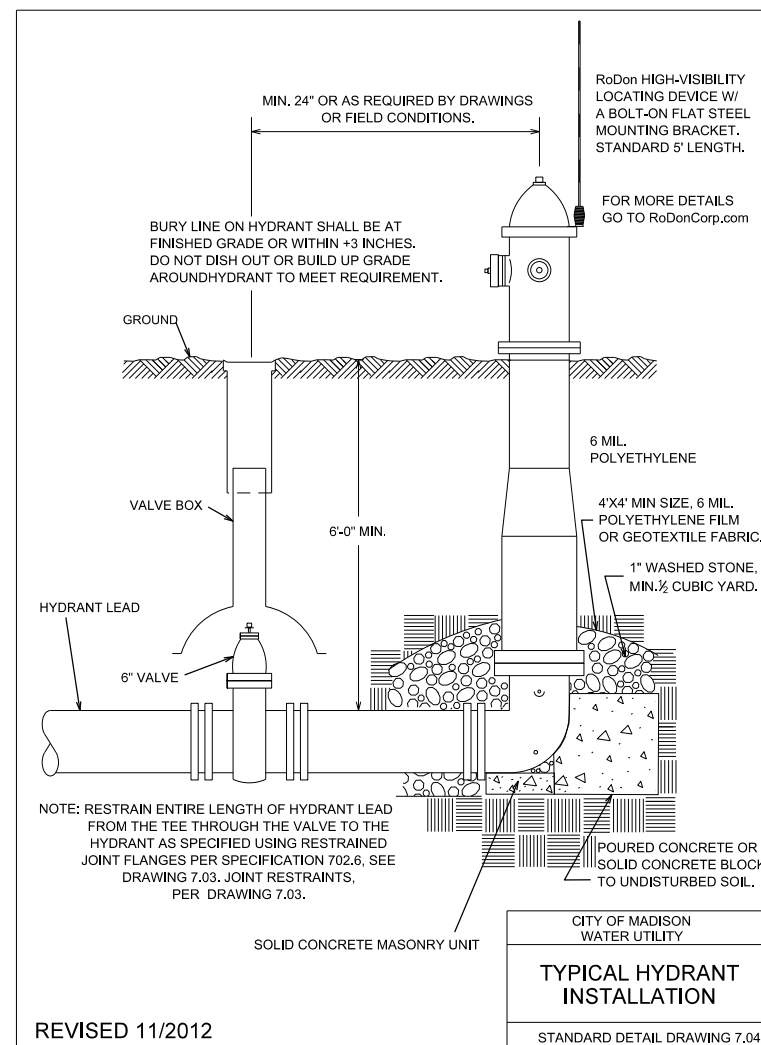
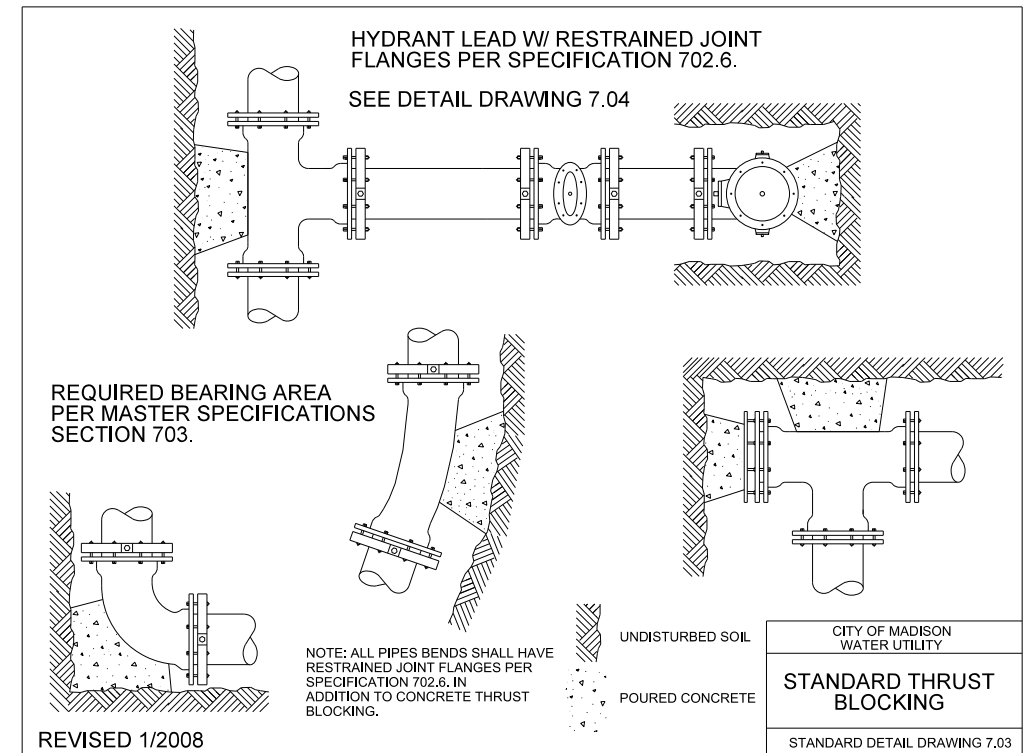
**ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:**

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

- 40' - 6" PIPE
- 560' - 8" PIPE
- 660' - POLYWRAP
- 1 - 6" VALVE & BOX
- 2 - 8" VALVE & BOX
- 1 - 8"X8" TEE
- 2 - 8"X6" TEE
- 1 - 8" MJ PLUG
- 2 - 5" HYDRANT
- 24' - 2" STYROFOAM INSULATION
- 1-IN COPPER TUBING (AS REQUIRED)

**MATERIALS REUSED**

- 1 - 8"X6" TEE
- 1 - 8" MJ PLUG
- 1 - 5" HYDRANT



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