



Madison, Wisconsin

INDEX OF SHEETS - STREET GRADES AND GEOMETRICS

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P2	RED BIRCH RUN
P3	O.L.10

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CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

THE MEADOWLANDS

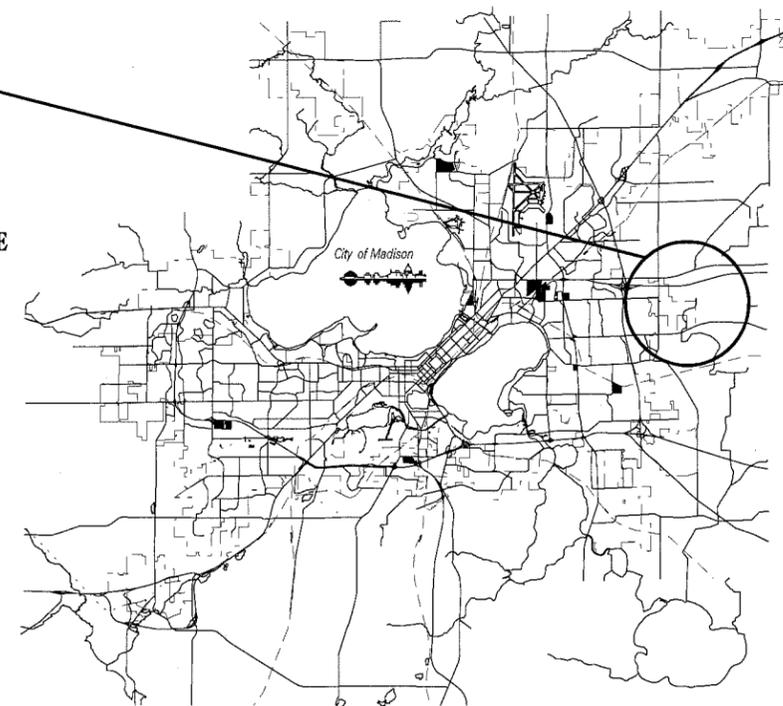
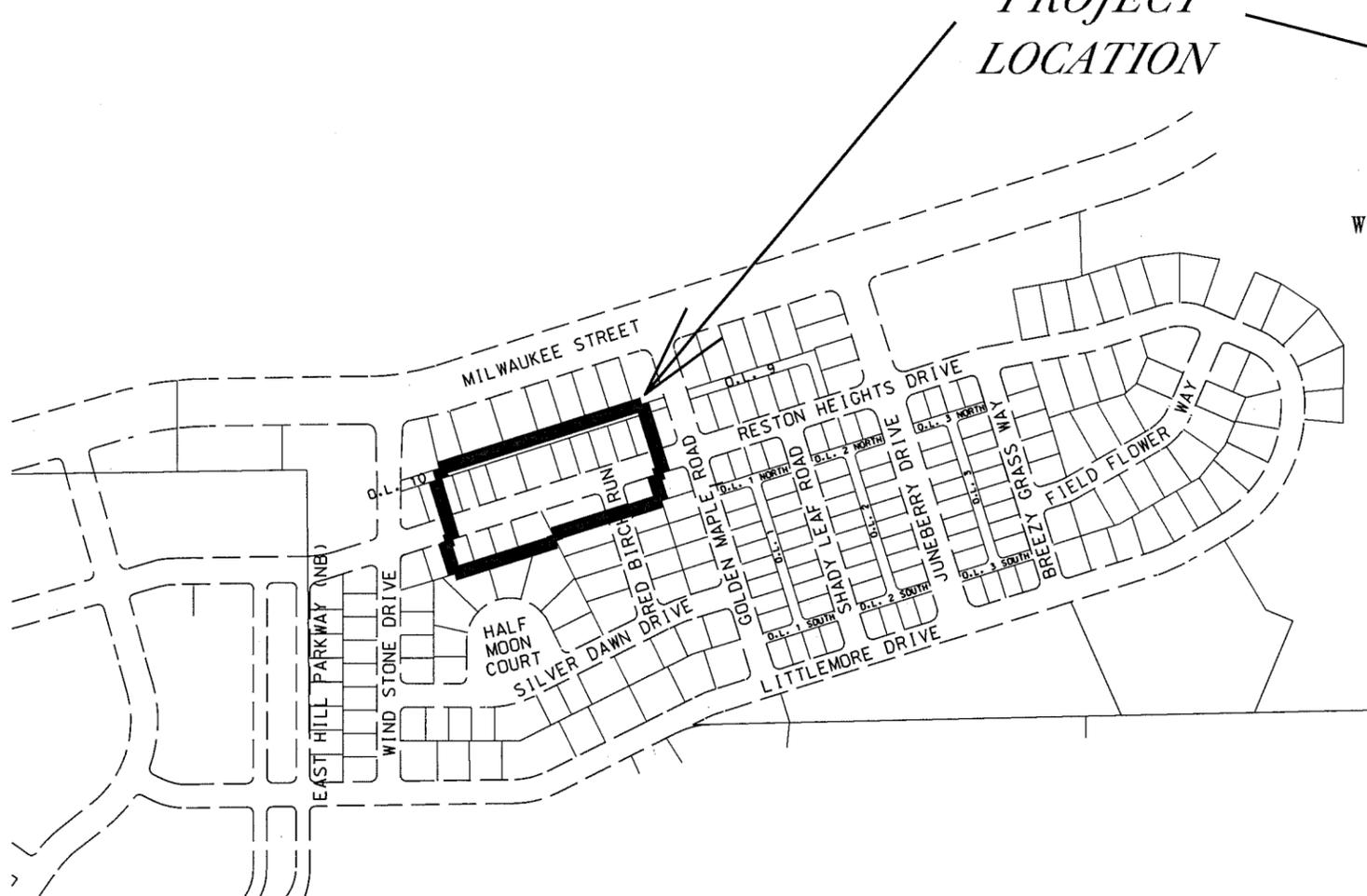
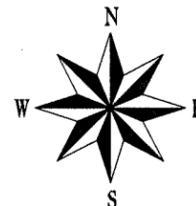
PHASE 3

CITY PROJECT NO. 53B1968

RESTON HEIGHTS DRIVE, RED BIRCH RUN AND O.L.10

PLANS RE-ISSUED 7/18/14

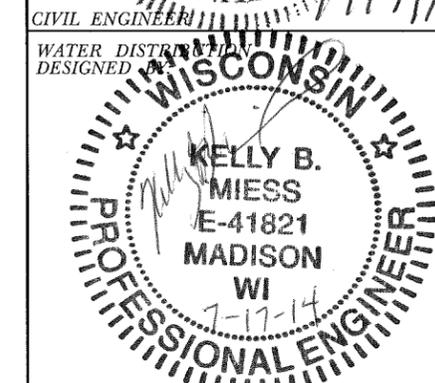
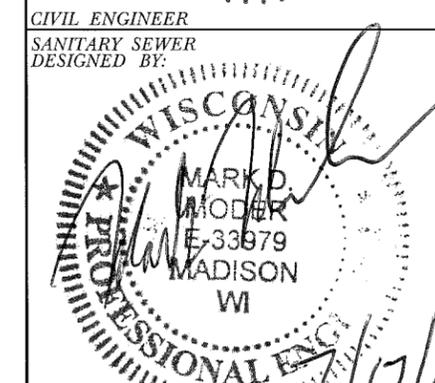
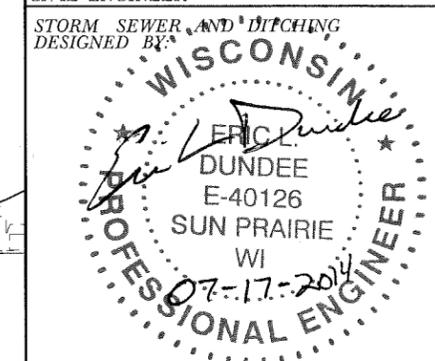
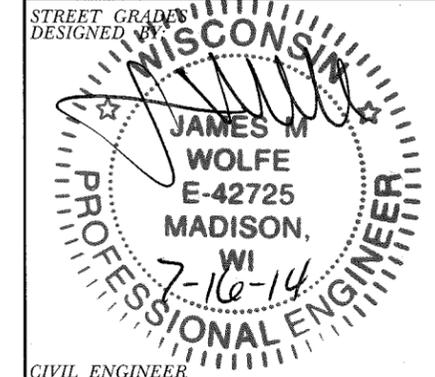
PROJECT
LOCATION



PUBLIC IMPROVEMENT PROJECT APPROVED
APRIL 20, 2004
BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

[Signature] 7/18/14
City Engineer Date



REVISED/RE-ISSUED 7/18/14

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 RESTON HEIGHTS DRIVE RIGHT-OF-WAY SHALL BE TYPE "B" AND ALL OTHER 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 AND MOUNTABLE NOSES PER S.D.D. 3.13. ALL OTHER C & G 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'.

UNDERDRAINS SHALL BE INSTALLED, PER STANDARD DETAIL DRAWING 4.05, ON PAGE 2 OF THESE PLANS, 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.

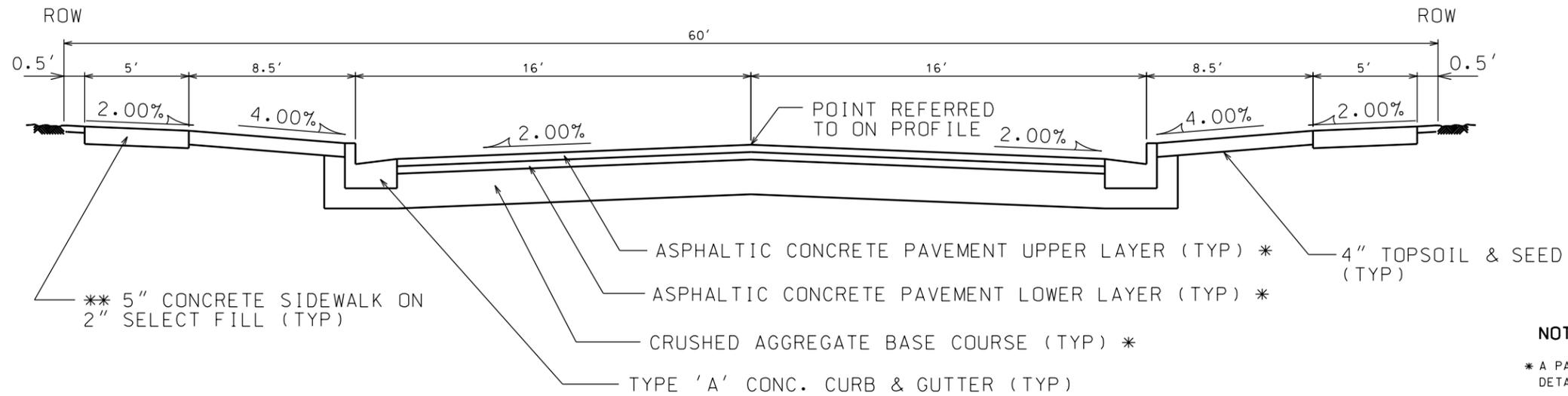
THE DEVELOPER SHALL PROVIDE, INSTALL AND MAINTAIN ALL STREET END BARRICADES, SIGNING AND TRAFFIC CONTROL, AS REQUIRED BY THE CITY TRAFFIC ENGINEER.

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: _____

TYPICAL SECTION - RESTON HEIGHTS DR. & RED BIRCH RUN



NOTES:

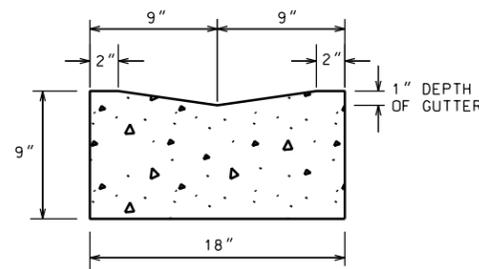
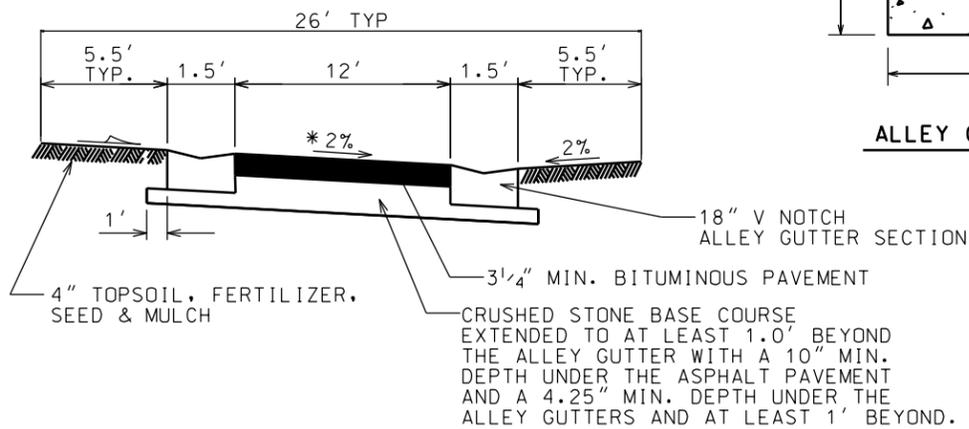
* A PAVEMENT DESIGN IN ACCORDANCE WITH STANDARD
DETAIL DRAWING 4.06 IS REQUIRED ON ALL PROJECTS

** 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		UPPER LAYER	
			TYPE	THICKNESS	TYPE	THICKNESS
A	6"	4"	E-0.3	1.75"	E-0.3	1.75"
B	6"	4"	E-1	2.5"	E-1	1.75"
C	6"	4"	E-3	3.50"	E-3	1.75"

TYPICAL ALLEY SECTION



ALLEY GUTTER DETAIL

* SEE ARROWS ON PLAN PAVEMENT
FOR DIRECTION OF CROSS SLOPE.

CURBS SHALL HAVE A MINIMUM 0.5% LONGITUDINAL
GRADE TOWARD INLETS.

ALL STORM WATER SHALL BE COLLECTED BY STORM
SEWER INLETS PRIOR TO FLOWING OVER PRIVATE
PROPERTY OR SIDEWALKS.

THE EDGE OF ALLEY PAVEMENT SHALL
NOT BE CLOSER THAN 7.0' TO THE
PROPERTY LINE AT ANY POINT.

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

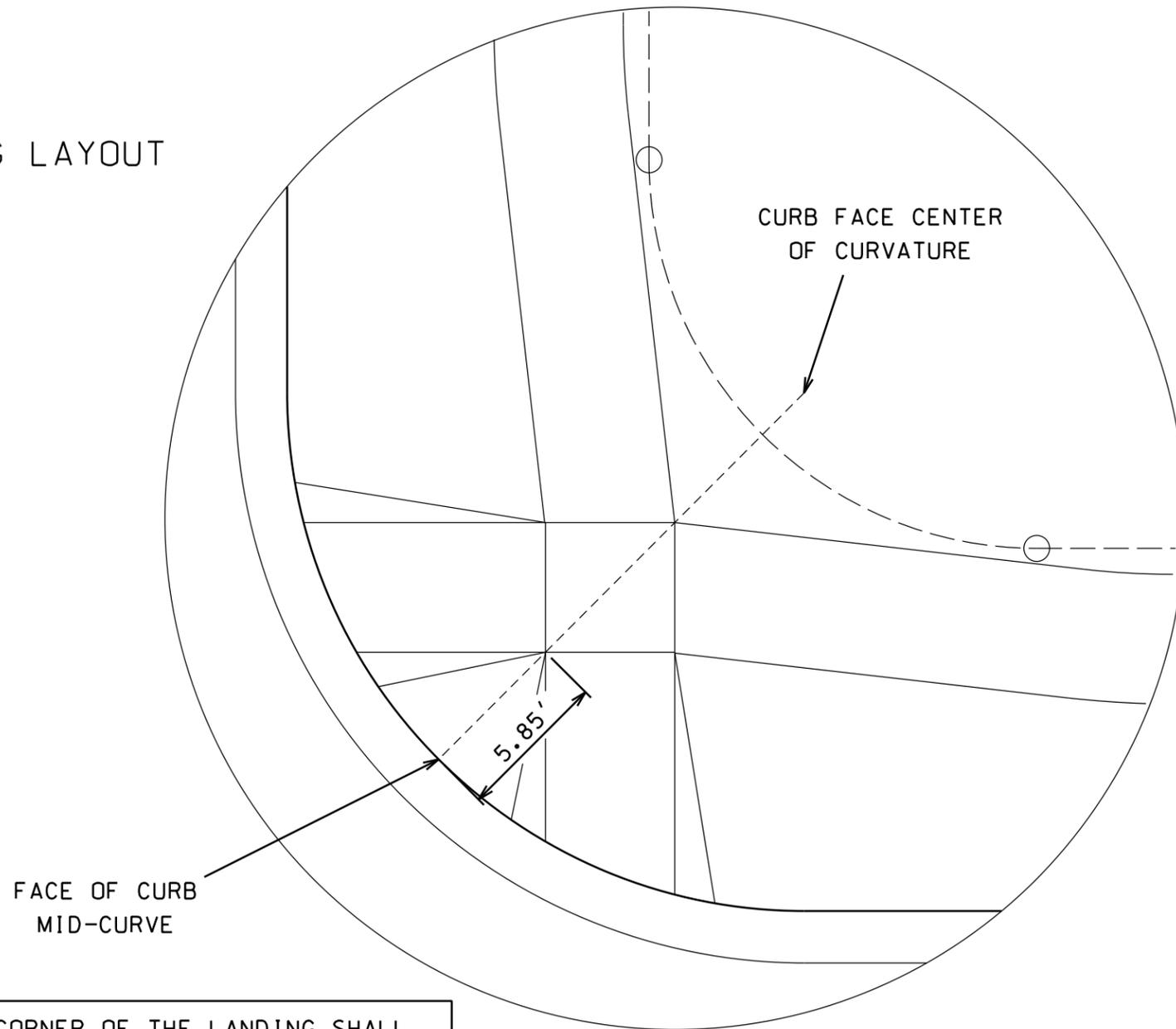
CONTACT THE CITY ENGINEER FOR A SITE SPECIFIC DESIGN IF THIS TYPICAL LAYOUT RESULTS IN ANY NON-COMPLIANCE WITH THE AMERICANS WITH DISABILITIES GUIDELINES OR ANY LOCAL, STATE OR NATIONAL REGULATIONS, CODES, GUIDLINES OR ORDINANCES.

RAMP GRADES SHALL NOT EXCEED 8.33% AT ANY POINT.

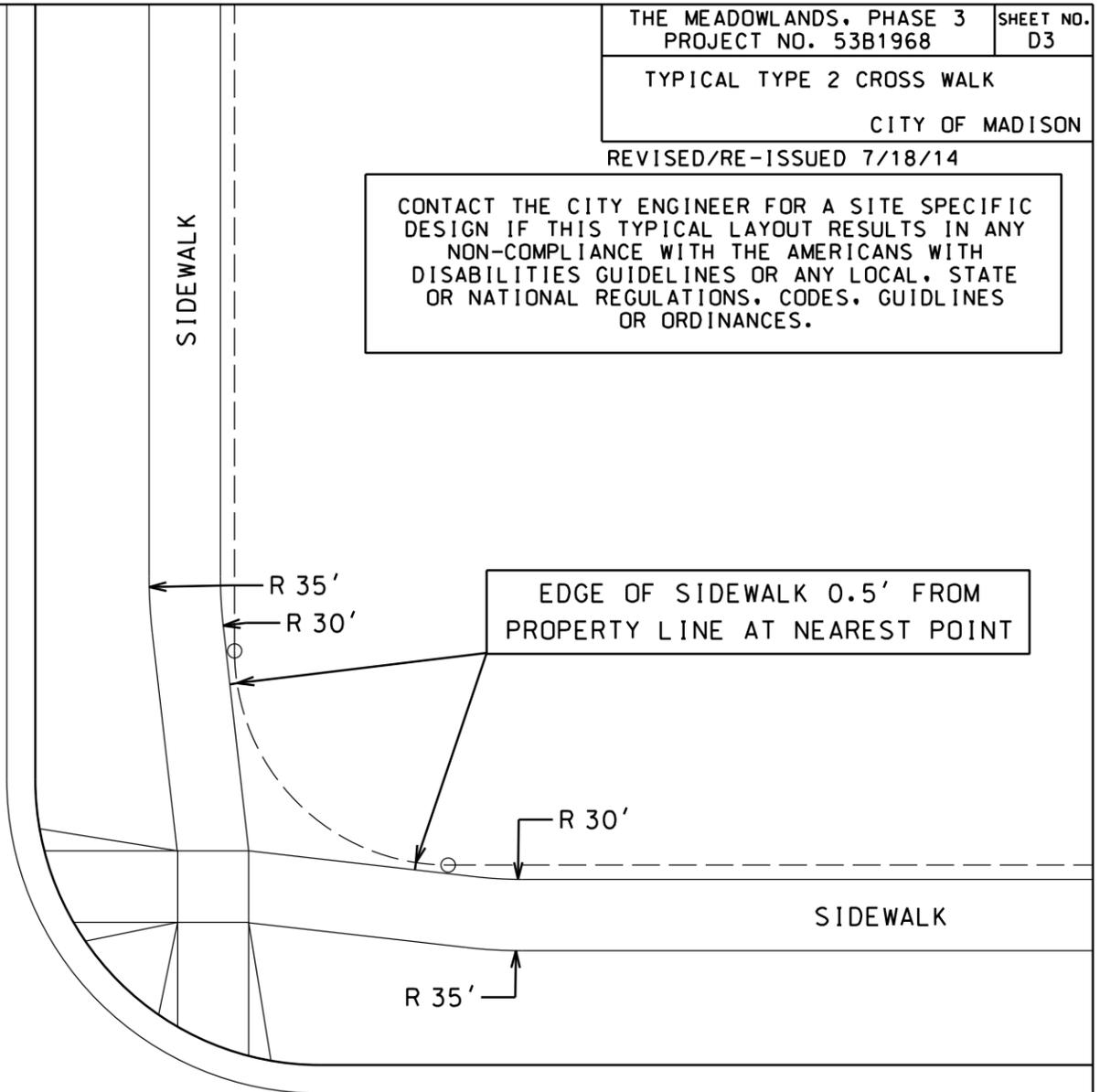
SIDEWALK LONGITUDINAL GRADES AT ALL LOCATIONS OTHER THAN RAMPS SHALL NOT EXCEED 5.0%.

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.

LANDING LAYOUT



THE NEAR CORNER OF THE LANDING SHALL BE 5.85' FROM THE FACE OF CURB. BOTH OPPOSITE CORNERS OF THE LANDING SHALL BE LOCATED ON THE RADIUS LINE WHICH PASSES THROUGH THE MIDPOINT OF THE CURB CURVATURE.



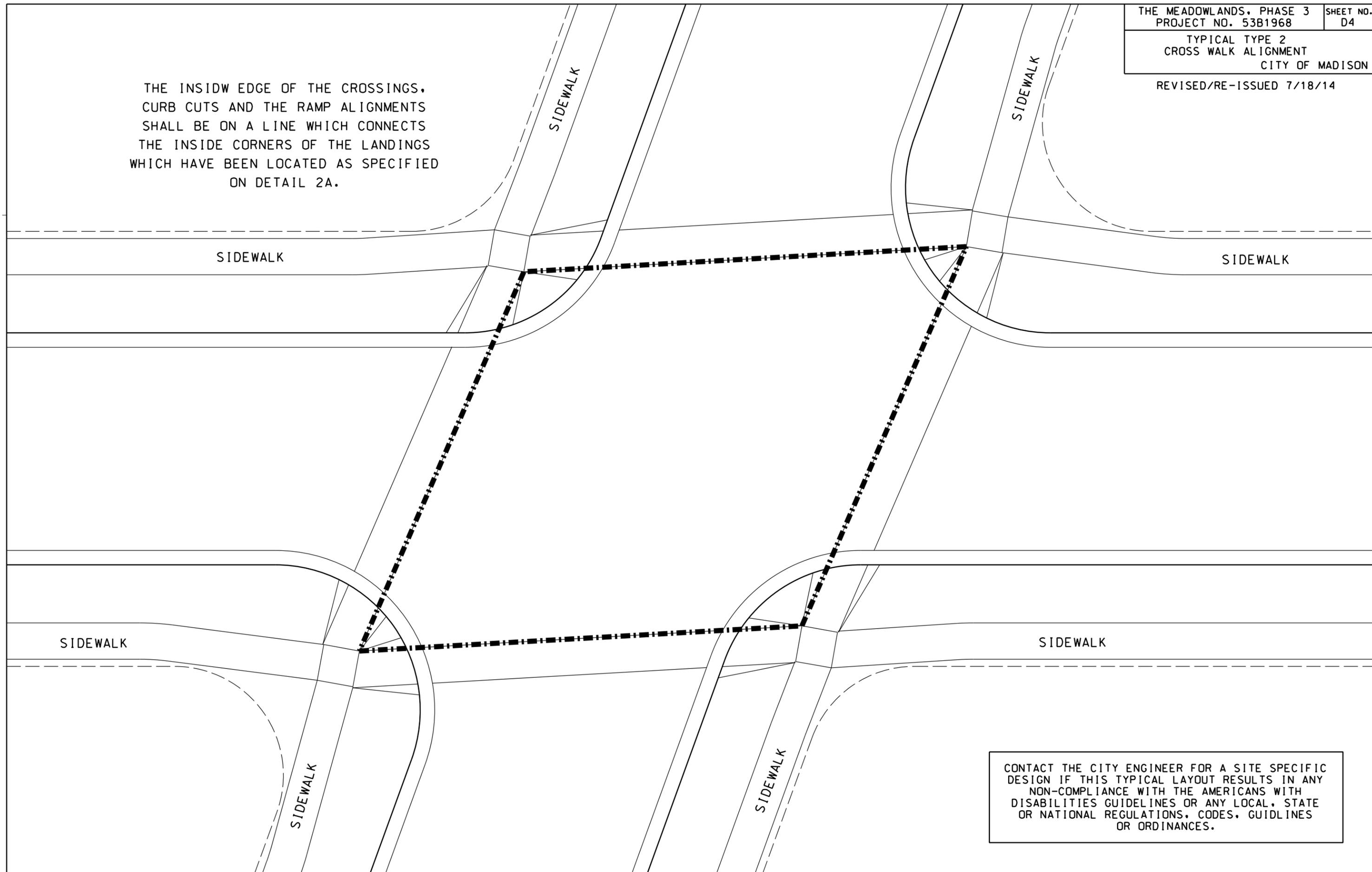
TYPICAL TYPE 2 RAMP LAYOUT

LONGITUDINAL RAMP GRADES SHALL NOT EXCEED 8.33% NOR BE LESS THAN 2.0% AT ANY POINT. THIS NOTE SHALL TAKE PRECEDENCE OVER ANY ELEVATION OR GRADE INDICATED ON THE PLAN.

TYPICAL TYPE 2
CROSS WALK ALIGNMENT
CITY OF MADISON

REVISED/RE-ISSUED 7/18/14

THE INSIDW EDGE OF THE CROSSINGS,
CURB CUTS AND THE RAMP ALIGNMENTS
SHALL BE ON A LINE WHICH CONNECTS
THE INSIDE CORNERS OF THE LANDINGS
WHICH HAVE BEEN LOCATED AS SPECIFIED
ON DETAIL 2A.



SIDEWALK

SIDEWALK

SIDEWALK

SIDEWALK

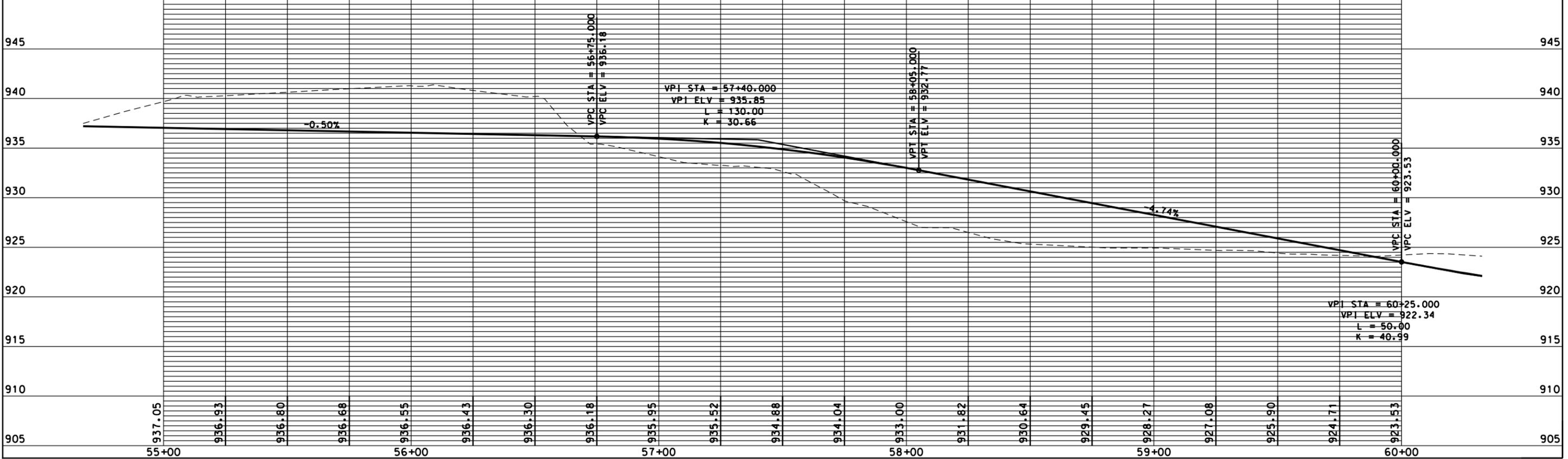
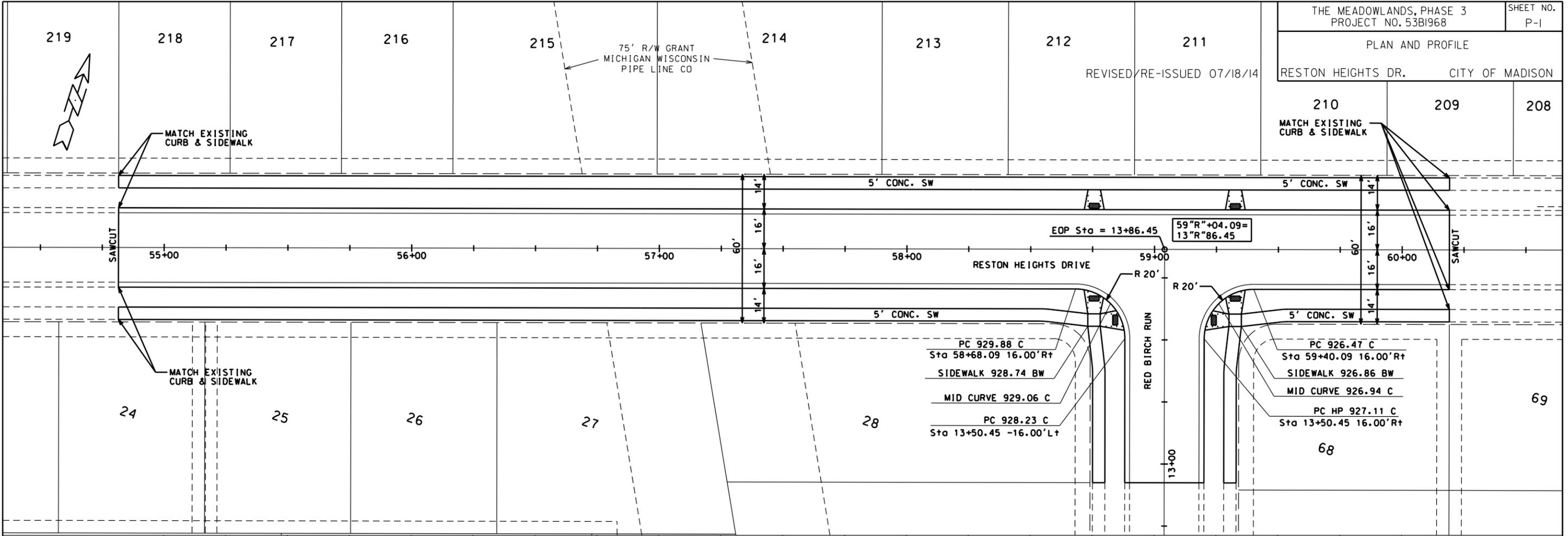
SIDEWALK

SIDEWALK

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.

PLAN AND PROFILE
RESTON HEIGHTS DR. CITY OF MADISON

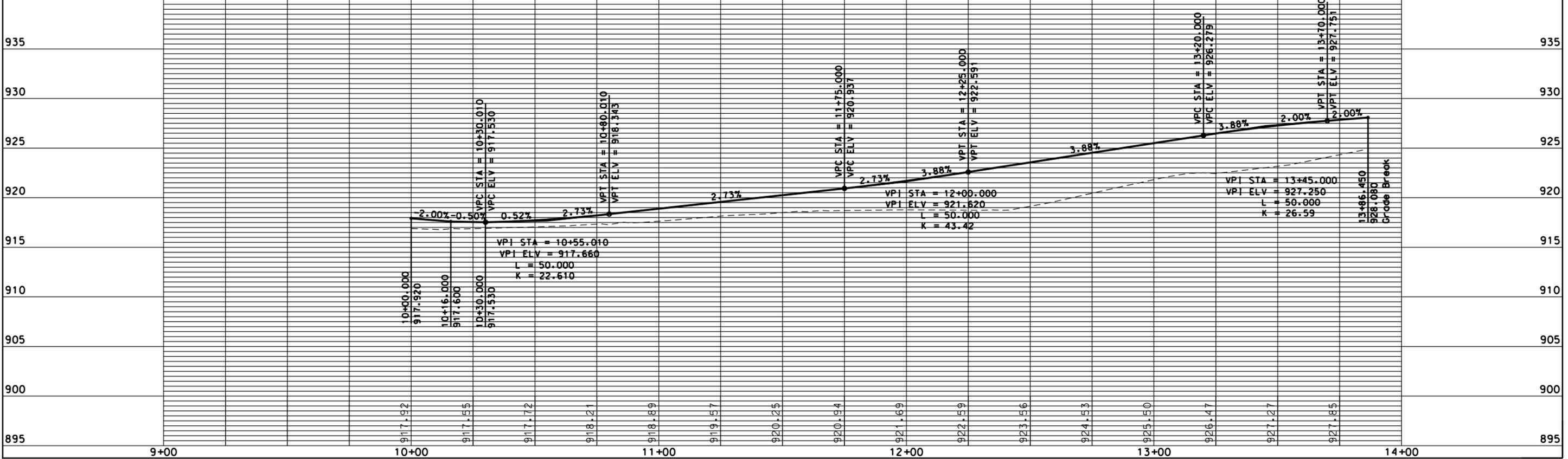
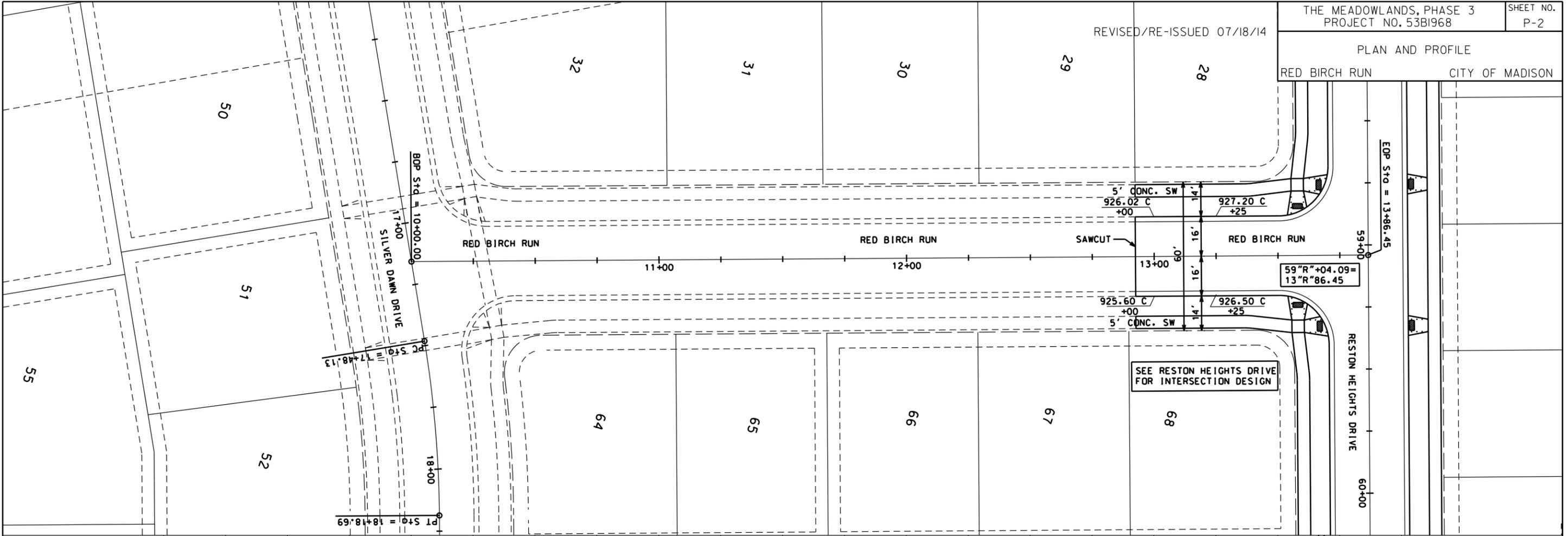
REVISED/RE-ISSUED 07/18/14



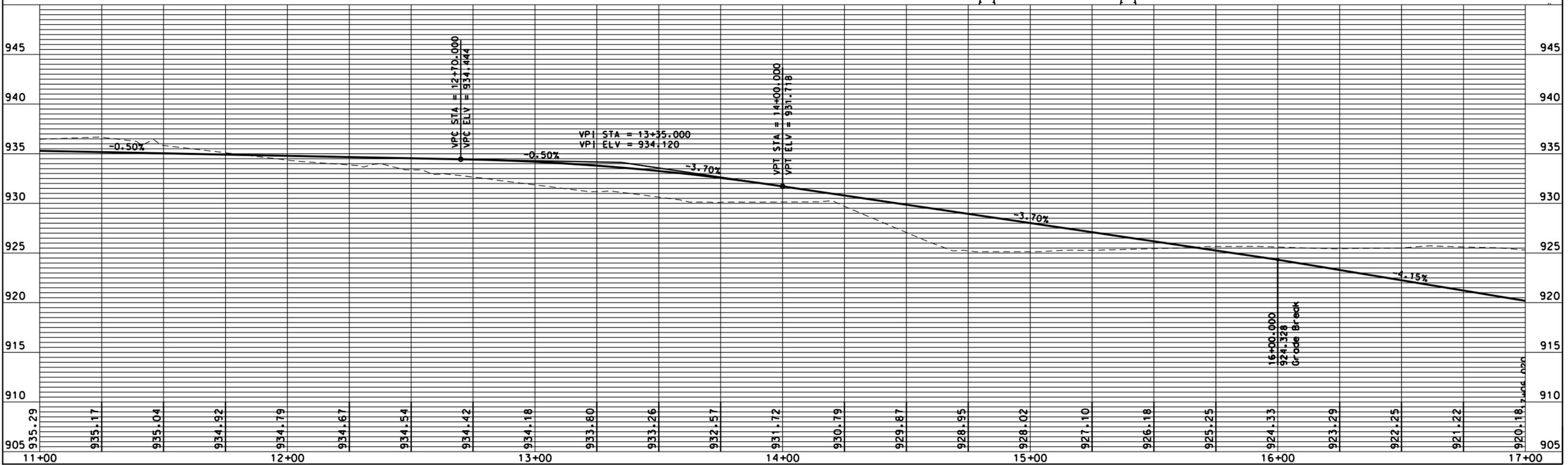
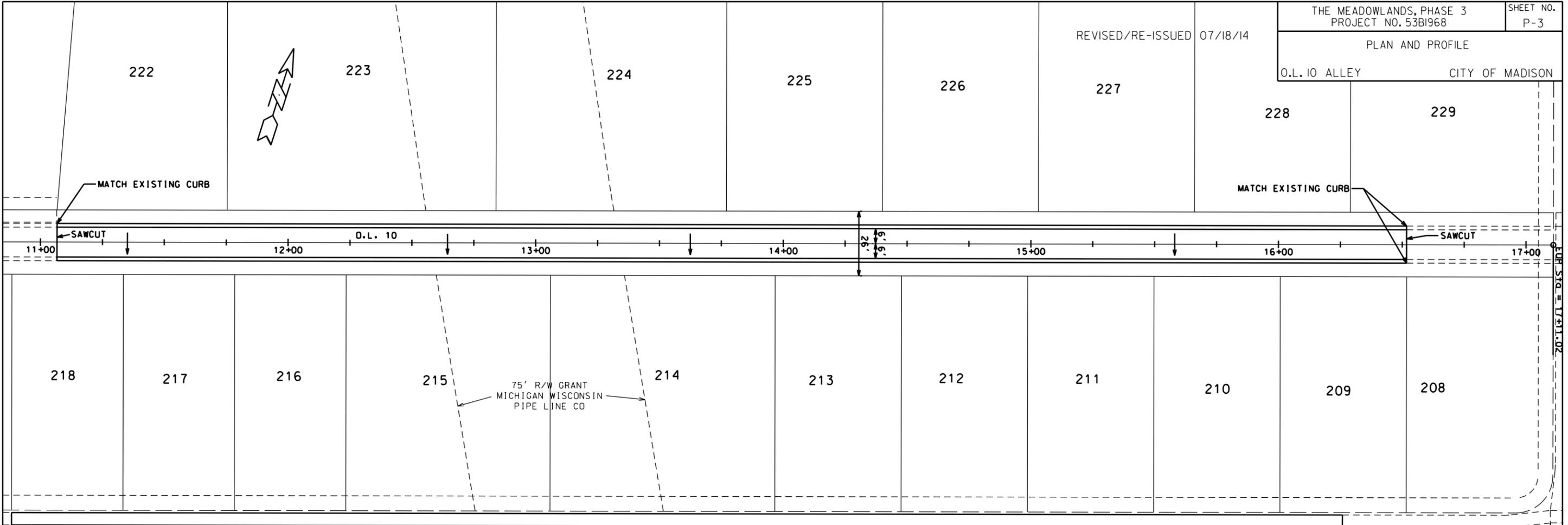
ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE
RED BIRCH RUN
CITY OF MADISON

REVISED/RE-ISSUED 07/18/14



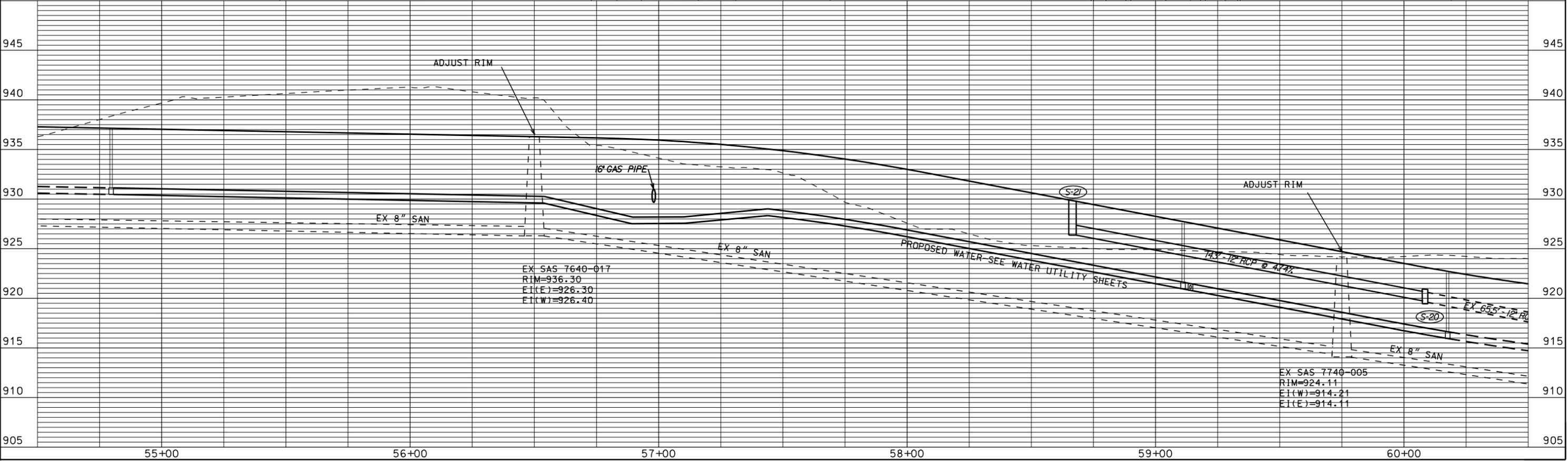
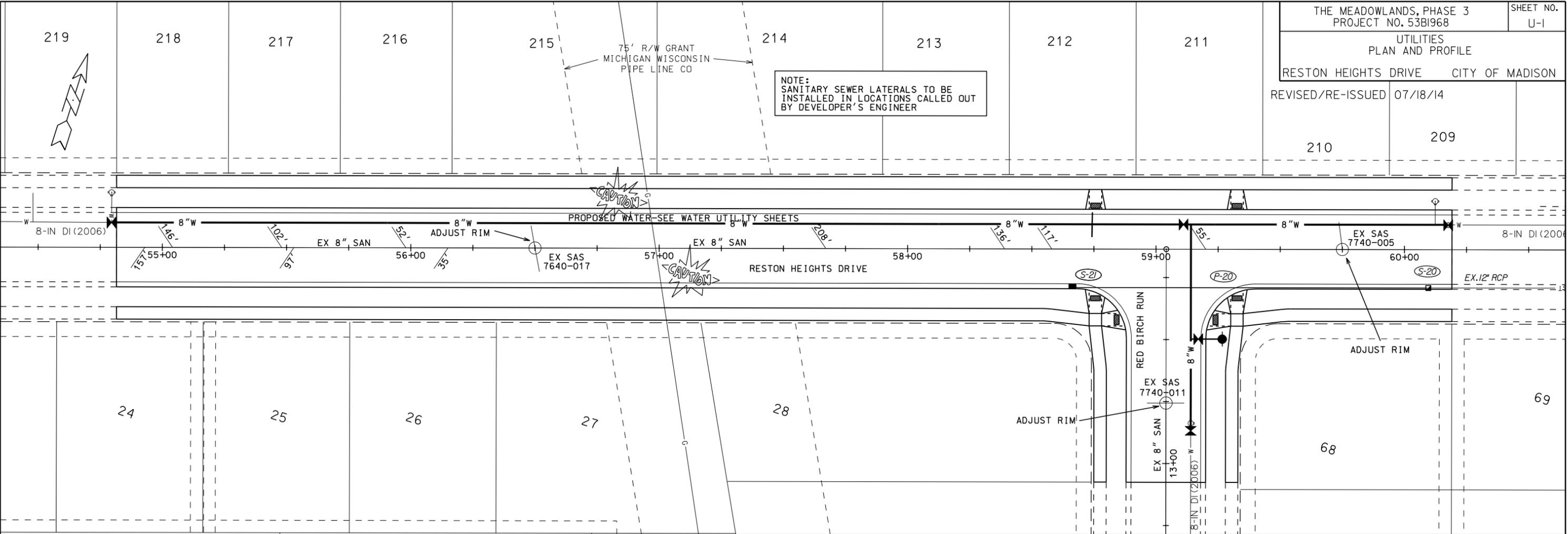
ORIGINATOR: CITY OF MADISON, STREETS DIVISION
 REV. DATE: _____
 PLOT NAME: _____
 PLOT SCALE: _____



ORIGINATOR: CITY OF MADISON, STREETS DIVISION

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

NOTE:
SANITARY SEWER LATERALS TO BE
INSTALLED IN LOCATIONS CALLED OUT
BY DEVELOPER'S ENGINEER



ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLOT SCALE:
PLOT NAME:
REV. DATE:

ALIGNMENT CODES:

'RH' = RESTON HEIGHTS

THE MEADOWLANDS PH. 3
PROJECT NO. 53B1968

SHEET NO.
U-2

STORM SEWER SCHEDULE

STORM SEWER SCHEDULE CITY OF MADISON

STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
S-20	60'RH'+09.16	RT-15.50	CONCRETE COLLAR	---	919.60	---	REMOVE PLUG, CONNECT TO EX. 12" RCP
S-21	58'RH'+66.59	RT-15.50	H INLET	929.88	926.38	3.50	W/ R-3067-7004, FP

PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	LGTH (FT)	DISCH. E.I.	INLET E.I.	SLOPE (%)	PIPE SIZE	TYPE	NOTES
P-20	S-21	S-21	143	919.60	926.38	4.74%	12"	RCP	

SPECIFIC NOTES

STANDARD NOTES:

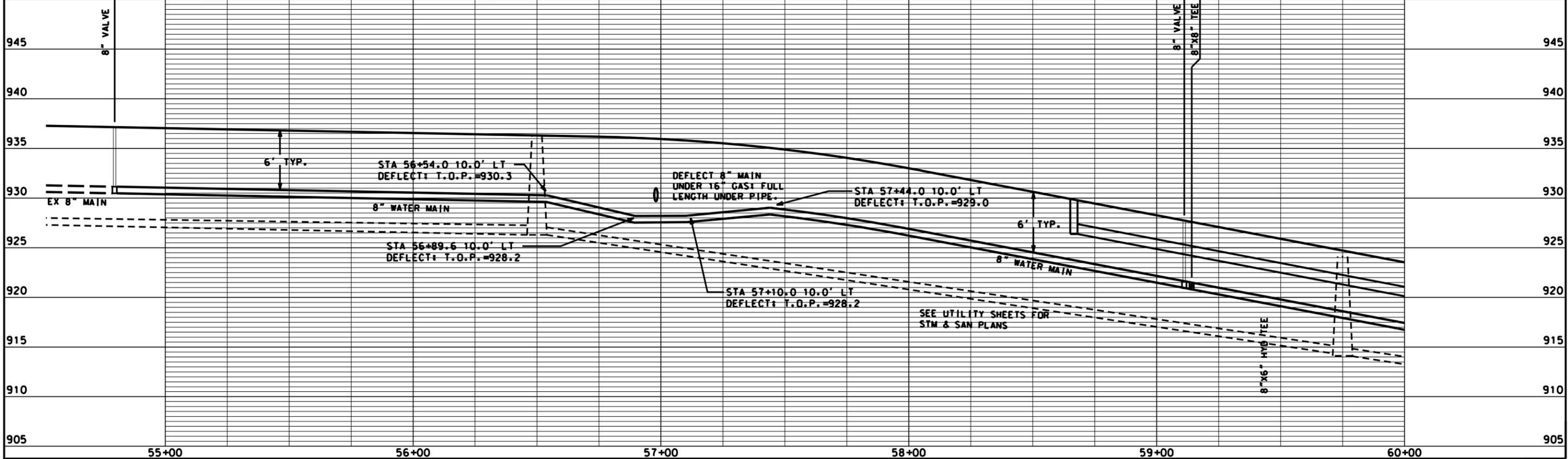
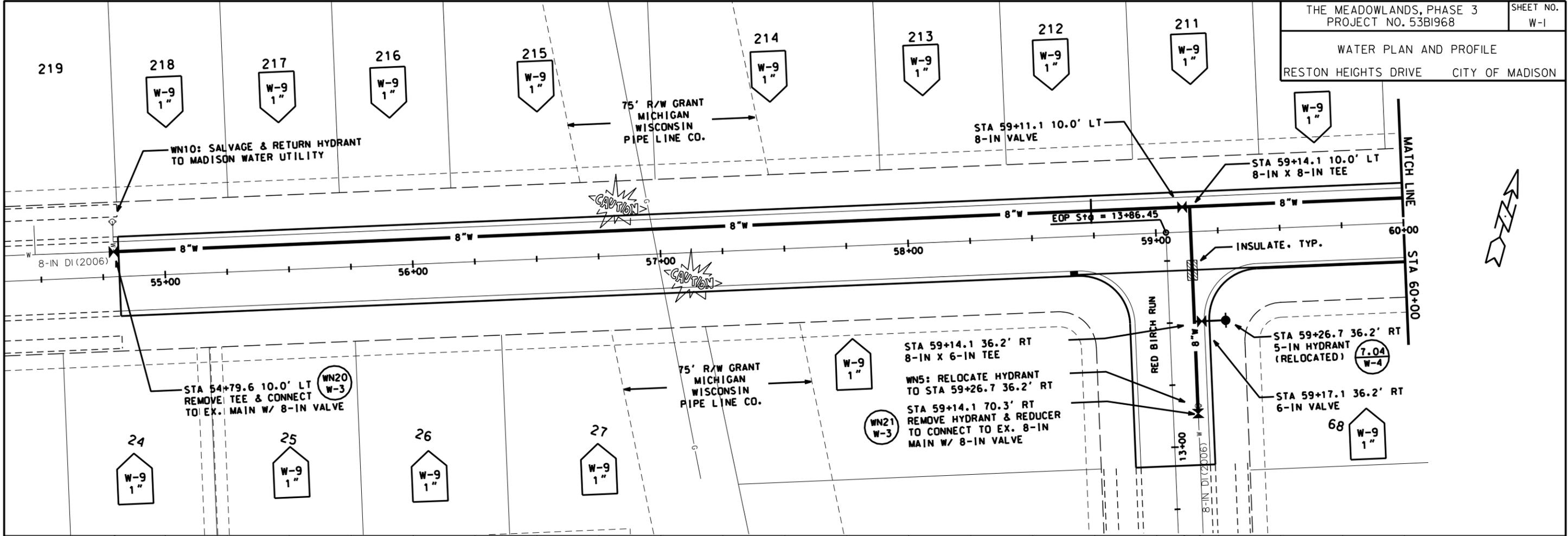
- ABBREVIATIONS: AE = APRON ENDWALL; RCP = REINFORCED CONCRETE PIPE; HERCP = HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE; DNA = DOES NOT APPLY; SAS = SEWER ACCESS STRUCTURE; LP = LOW POINT INLET STRUCTURE; FP = FIELD Poured STRUCTURE; TR = TOP OF CONCRETE ROOF; NCM = NO CROWN MATCH FOR PIPES
- APPROXIMATE 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.

PLOT SCALE: ---

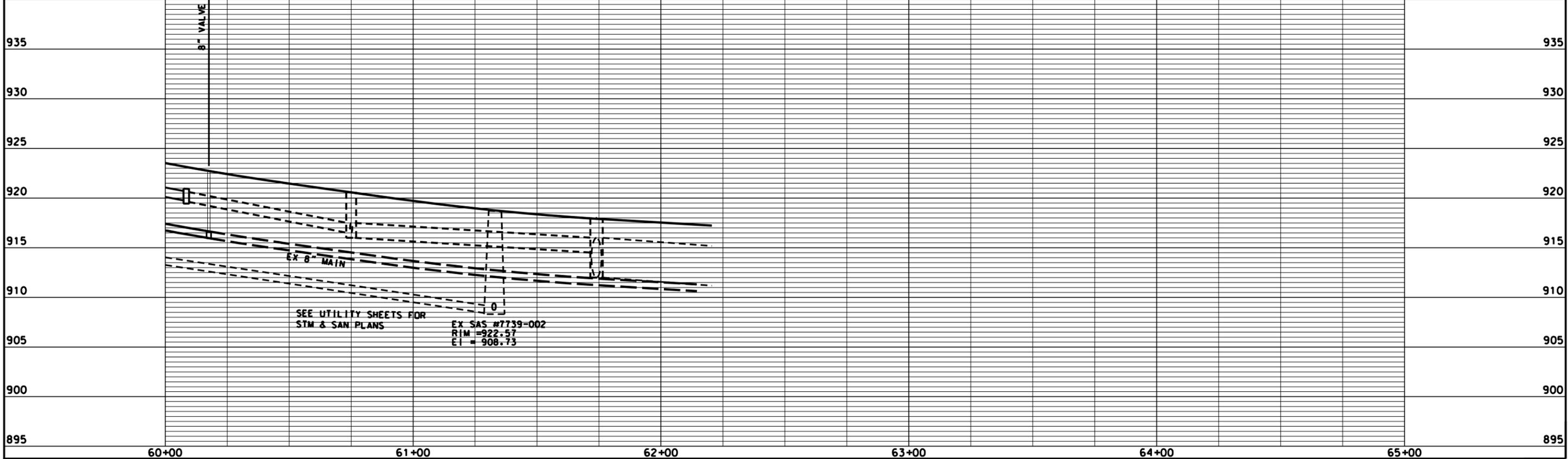
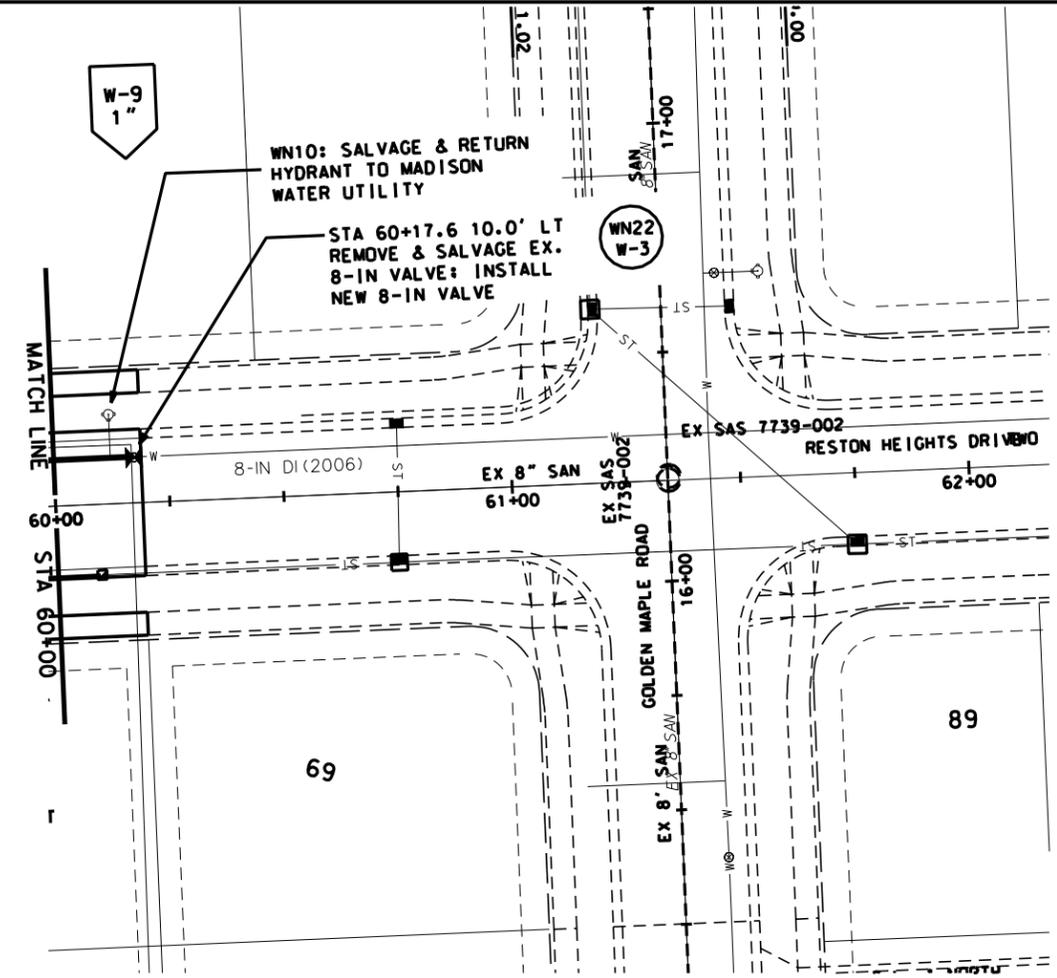
PLOT NAME: ---

REV. DATE: ---

ORIGINATOR: CITY OF MADISON STREETS DIVISION



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



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

MILWAUKEE ST

WN20
W-1

HYDRANT REMOVAL CONNECTION
6908 RESTON HEIGHTS DRIVE

ISOLATION VALVES:
- V-34 (8" RESTON HEIGHTS AT WIND STONE)

NOTIFICATION
- 6907 & 6908 RESTON HEIGHTS DR

VALVE REMOVAL CONNECTION
6976 RESTON HEIGHTS DR

WN22
W-3

ISOLATION VALVES:
- V-6 (8" N END GOLDEN MAPLE)
- V-20 (8" 202 GOLDEN MAPLE)
- V-3 (8" 7022 RESTON HEIGHTS)

NOTIFICATION
- 202 GOLDEN MAPLE
- 6982-7022 RESTON HEIGHTS

WN21
W-1

HYDRANT REMOVAL CONNECTION
201 RED BIRCH RUN

ISOLATION VALVES:
- V-8 (8" RED BIRCH AT SILVER DAWN)

NOTIFICATION
- 207 TO 221 RED BIRCH RUN

DISCLAIMER NOTE:
THE WATER IMPACT PLAN IS PROVIDED FOR REFERENCE PURPOSES
TO AIDE PLANNING CONNECTION POINT ISOLATION AND PREPARING
NOTIFICATION LISTS DURING PLANNED OUTAGES. REQUEST ANY
ALTERNATIVE CONNECTION METHODS IN WRITING, PER SPECS.

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 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.
- 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 NOTFICATION INFORMATION.

ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR:

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

- 15-FT - 6-IN PIPE
- 620-FT - 8-IN PIPE
- 710-FT - POLYWRAP
- 1- 6-IN VALVE & BOX
- 4- 8-IN VALVE & BOX
- 1- 8-IN X 6-IN TEE
- 1- 8-IN X 8-IN TEE
- 8-FT - 2-IN STYROFOAM
- 1-IN COPPER (AS R'QD)

MATERIALS SUPPLIED BY CITY:

NONE

REUSED MATERIALS

- 1 - 5-IN HYDRANT

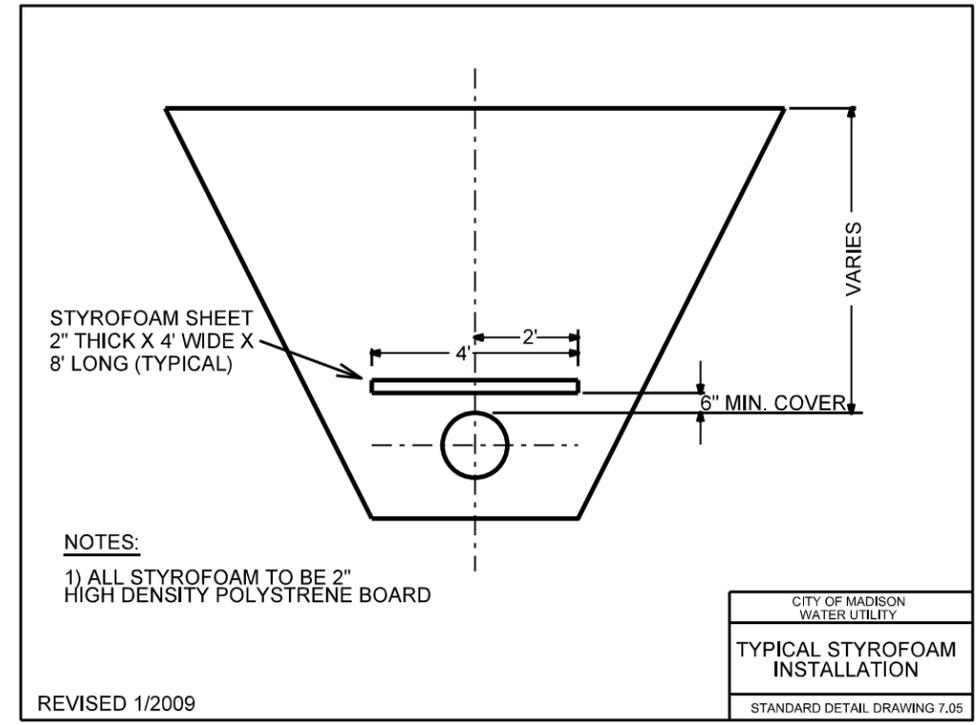
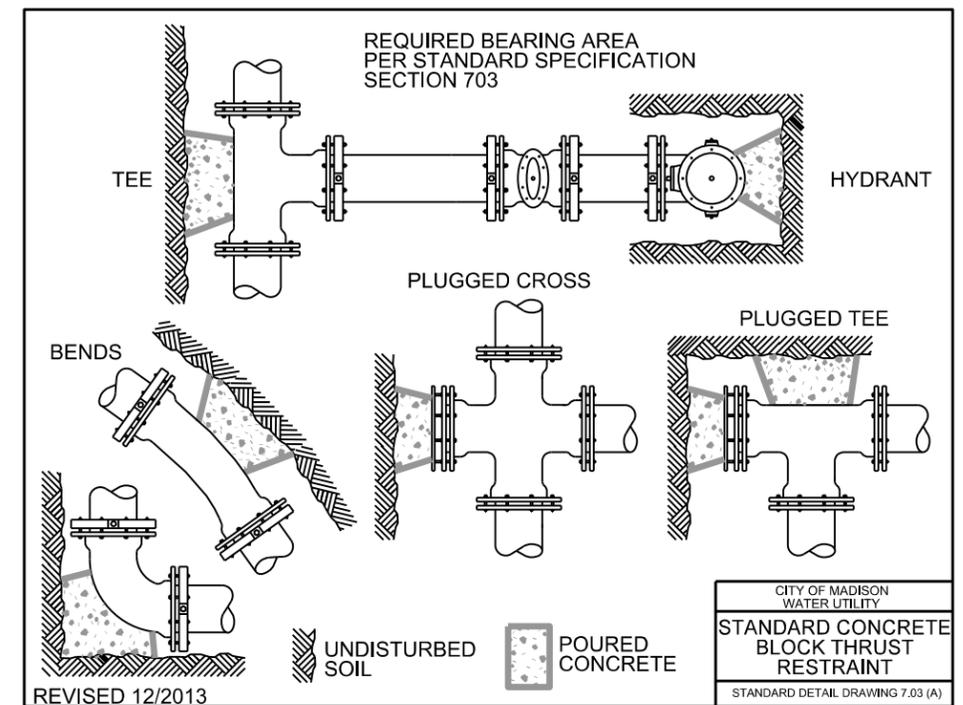
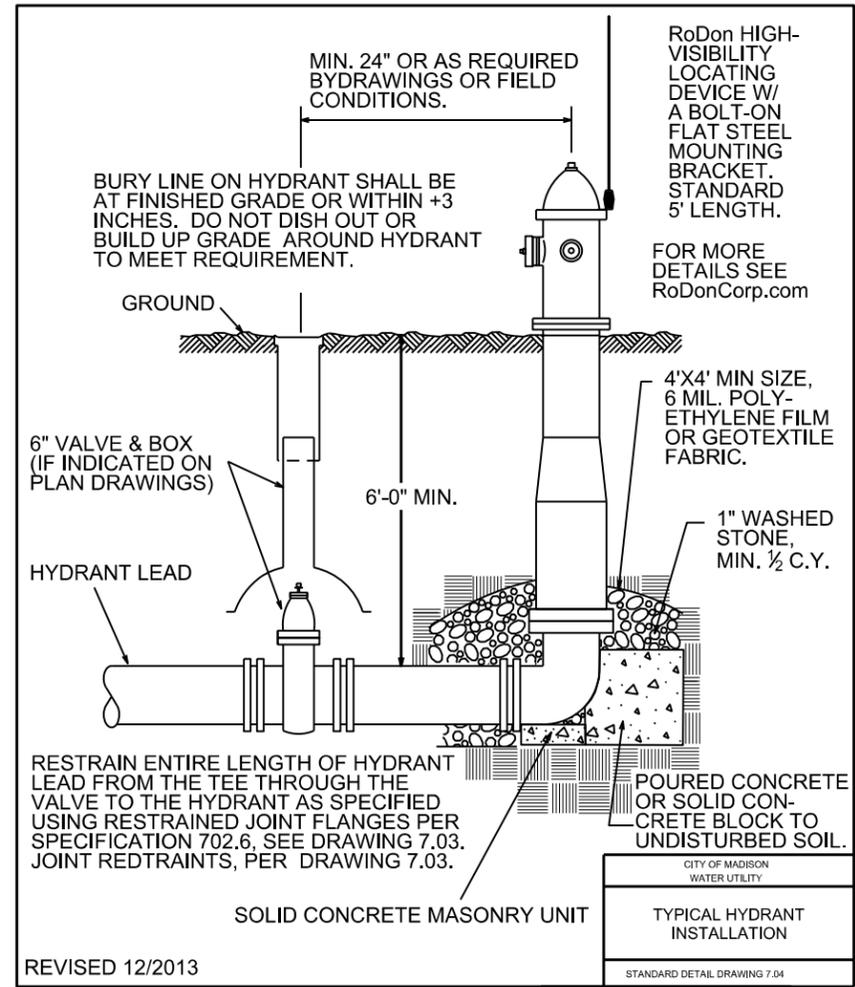
TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

CALL DIGGERS HOTLINE TOLL FREE 811 OR 1-800-242-8511

FAX-A-LOCATE 1-800-338-3860

TDD (FOR HEARING IMPAIRED) 1-800-542-2289

WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION