

Madison, Wisconsin

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CITY OF MADISON

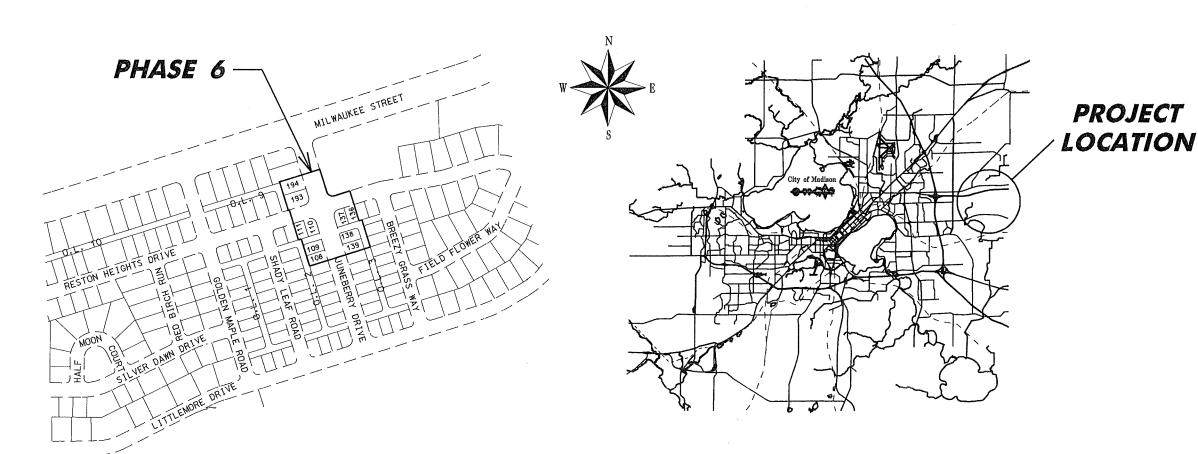
CITY ENGINEERING DIVISION DEPARTMENT OF PUBLIC WORKS PLAN OF PROPOSED IMPROVEMENT

THE MEADOWLANDS

PHASE 6

JUNEBERRY DRIVE, RESTON HEIGHTS DRIVE, OUTLOTS 2 & 3 ALLEYS

CITY PROJECT NO. 53B2355



PUBLIC IMPROVEMENT PROJECT APPROVED JUNE 18, 2013 BY THE COMMON COUNCIL OF MADISON, WISCONSIN PUBLIC IMPROVEMENT DESIGN APPROVED BY: WATER DISTRIBUTION 33 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 ANDOR OWNERS. HAS BEEN COMPLIED WITH.

ALL PAVEMENT IN THE JUNEBERRY 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 "H" 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 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 CONSRETE 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.

THE MEADOWLANDS PH.6 PROJECT NO.53B2355

DETAILS

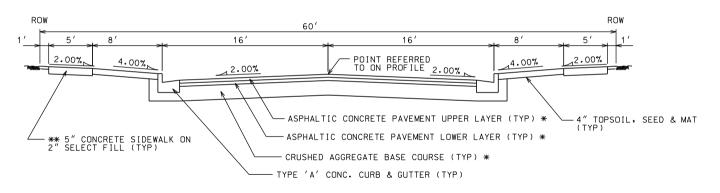
STANDARD NOTES

CITY OF MADISON

SHEET NO

D-I

TYPICAL SECTION - RESTON HEIGHTS DRIVE

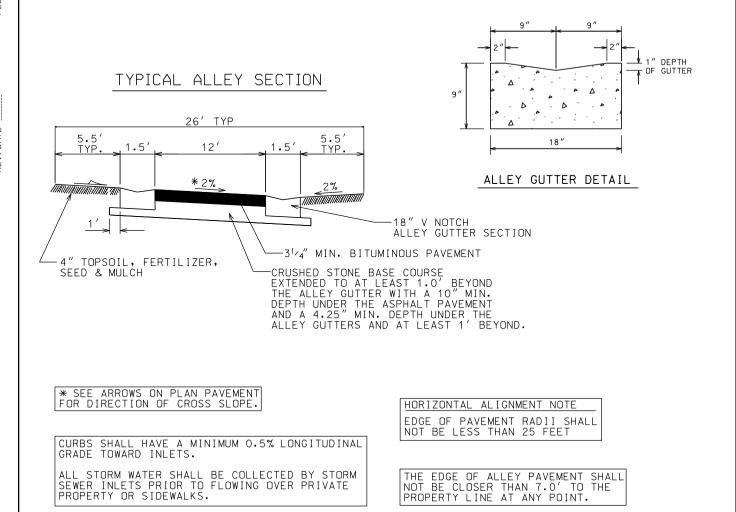


NOTES:

- * 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 AGGREG	ATE BASE COURSE	ASPHALTIC CONCRETE PAVEMENT					
	LOWER LAYER	UPPER LAYER	LOW	ER LAYER	UPPER LAYER			
	GRADATION 1	GRADATION 2	TYPE	THICKNESS	TYPE	THICKNESS		
Α	6"	4″	E-0.3	1.75"	E-0.3	1.75"		
В	6"	4 "	E-1	2.25"	E-1	2.00"		
С	6"	4″	E-3	3.25"	E-3	2.00"		



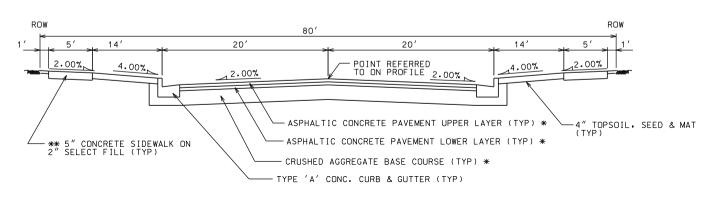
THE MEADOWLANDS, PH. 6
PROJECT NO. 53B2355

SHEET NO.
D-2

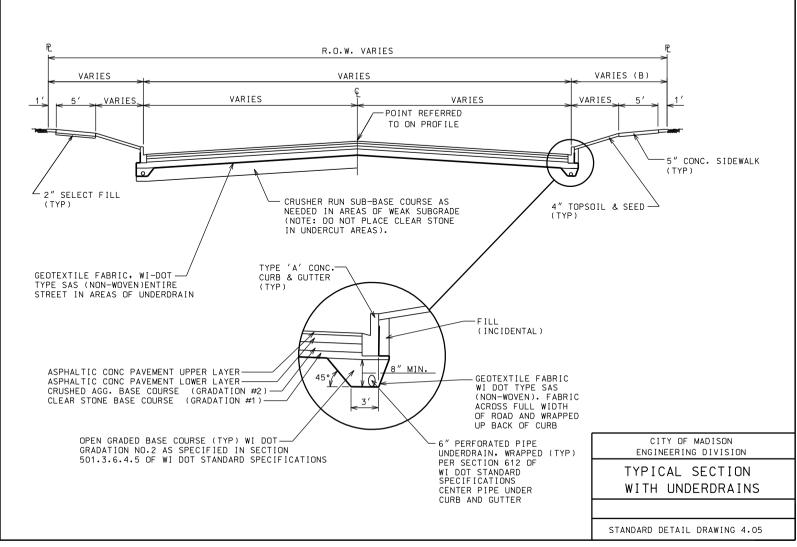
DETAILS

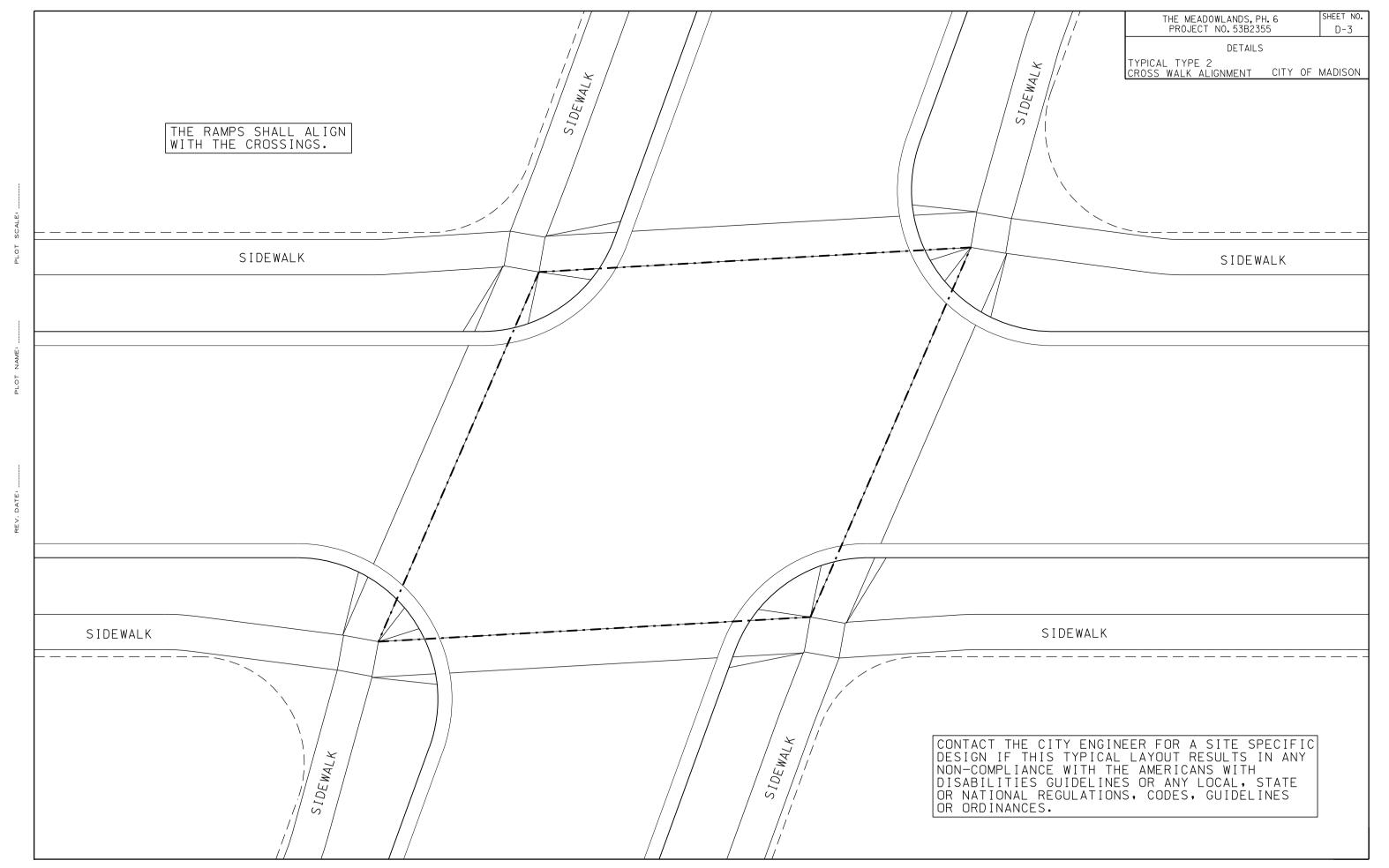
TYPICAL SECTIONS CITY OF MADISON

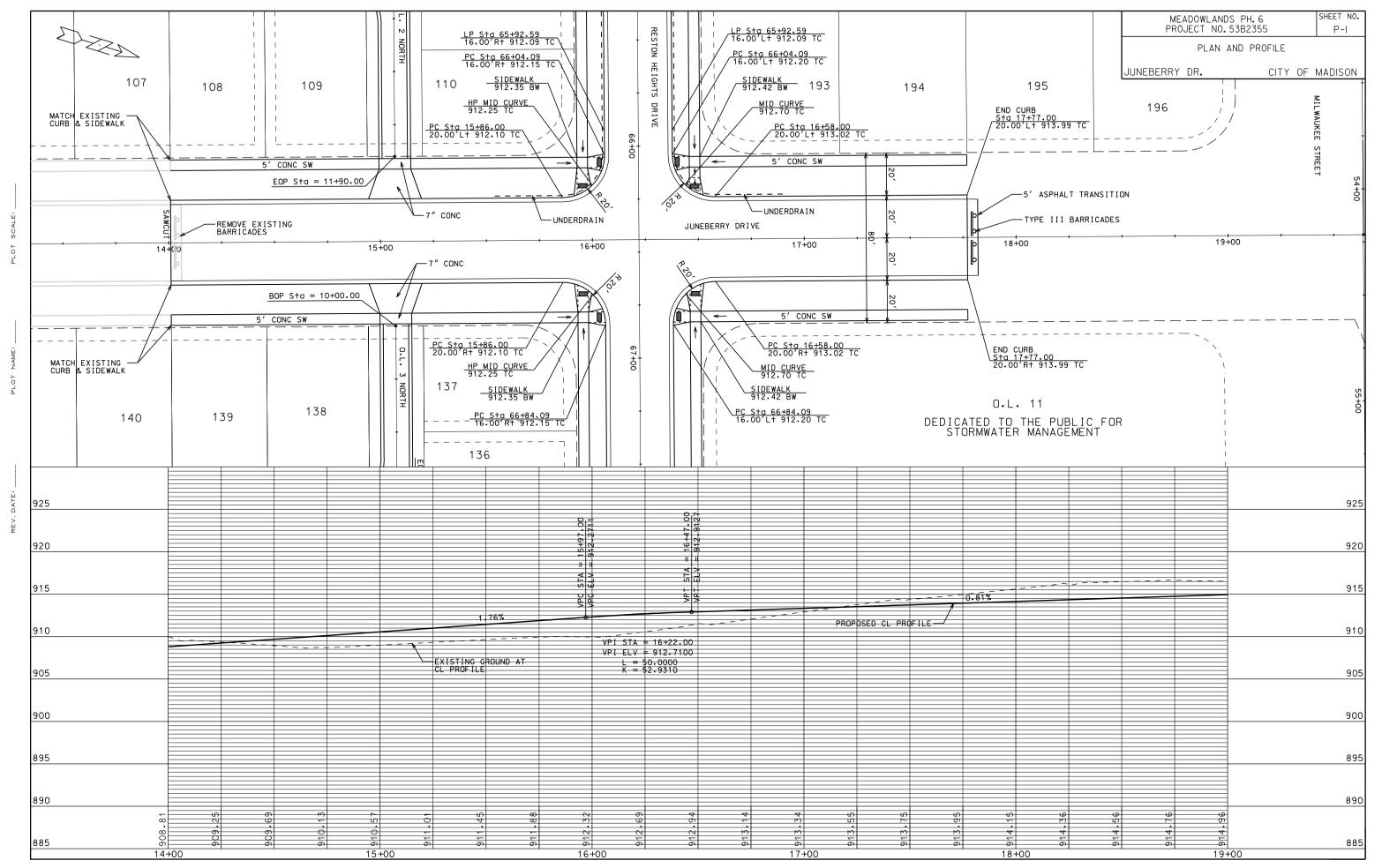
TYPICAL SECTION - JUNEBERRY DRIVE

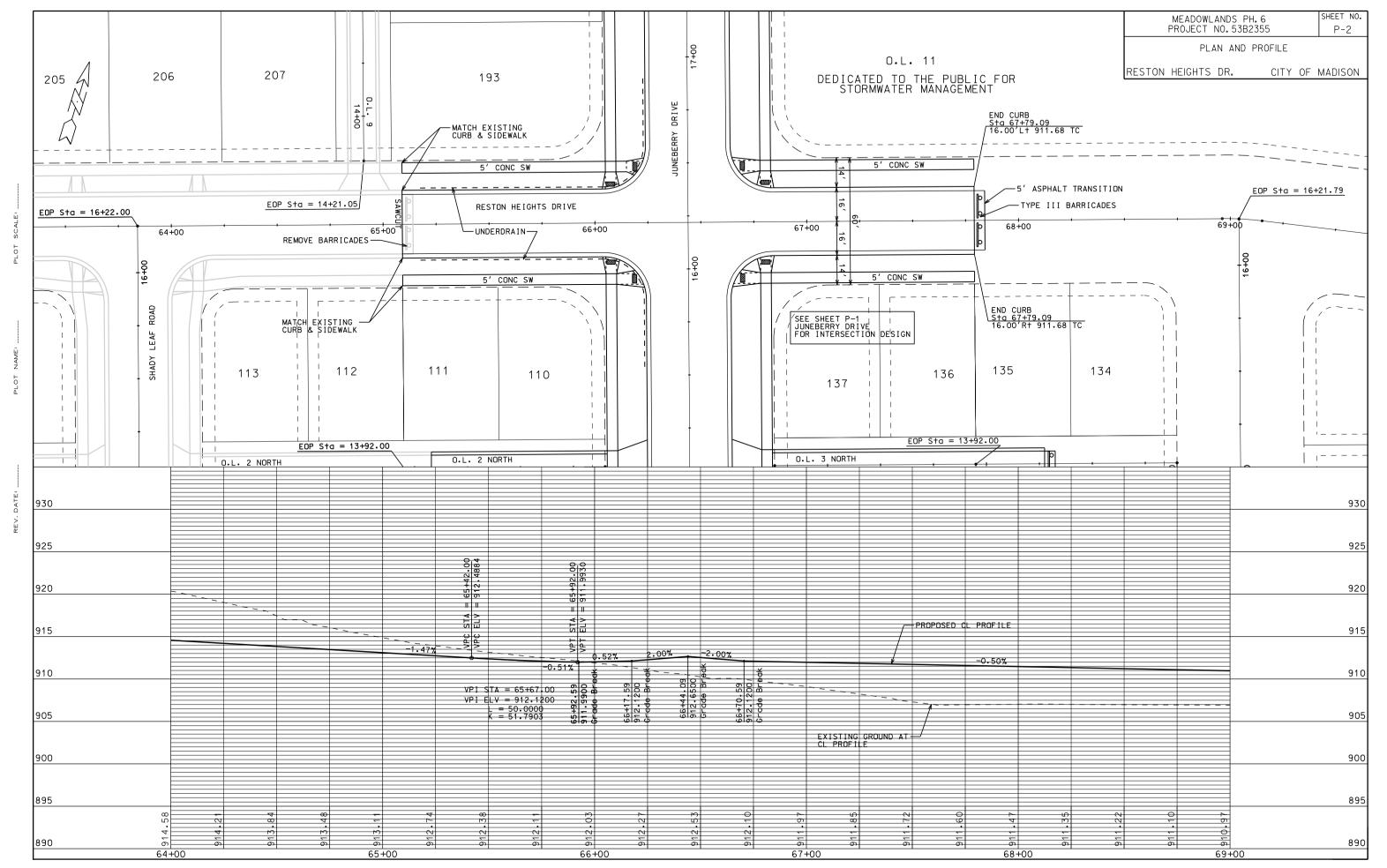


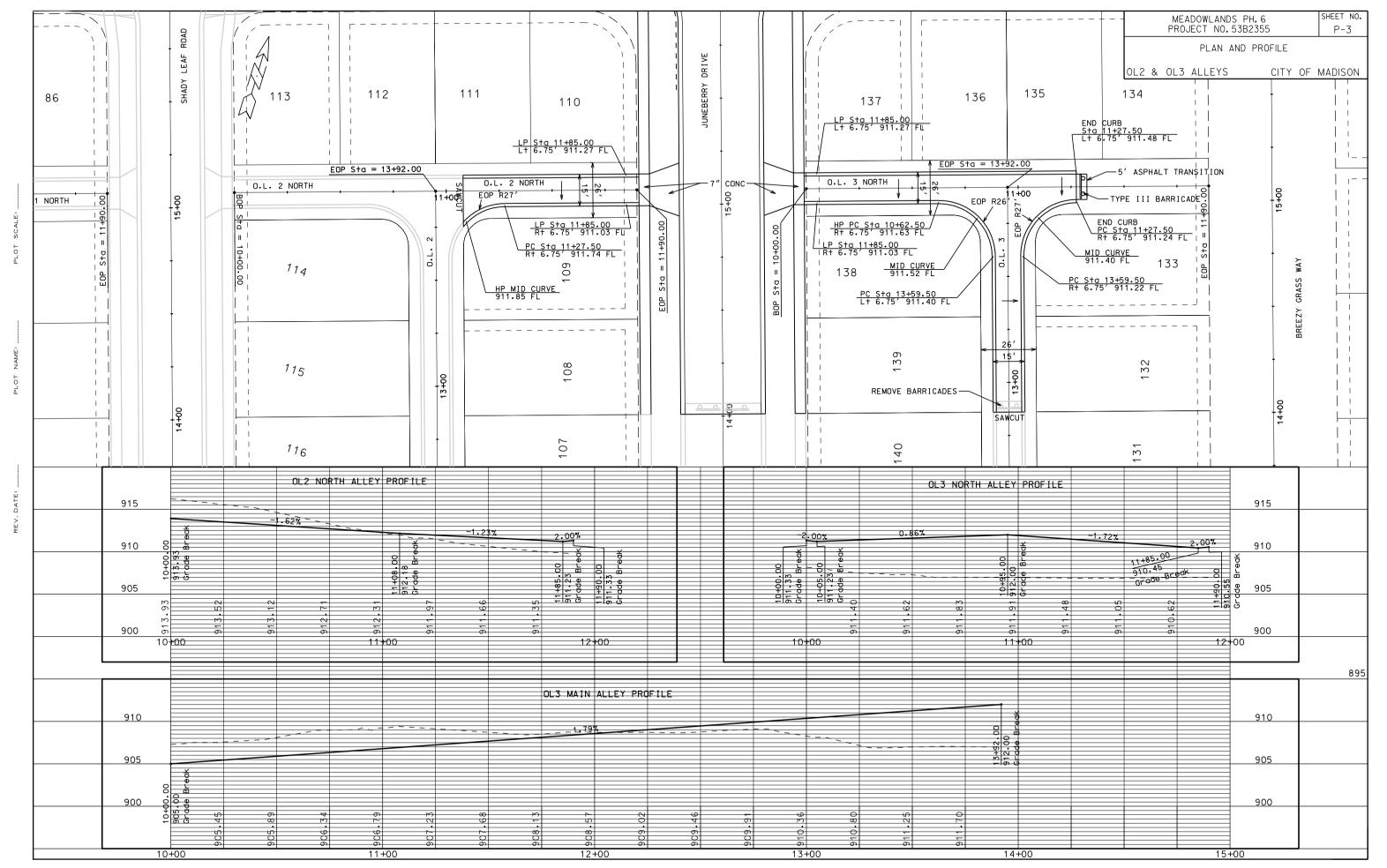
UNDERDRAIN INSTALLATION

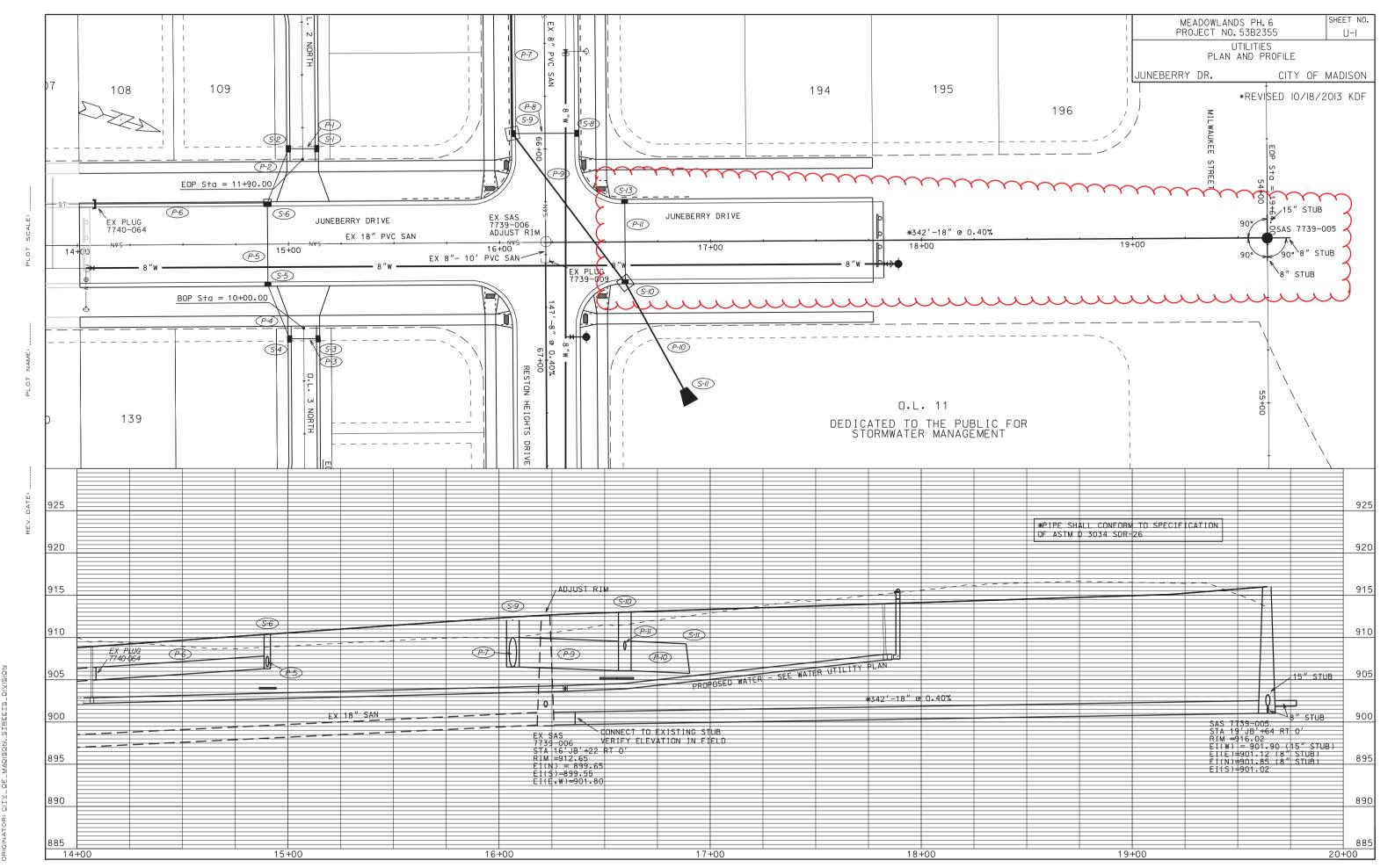


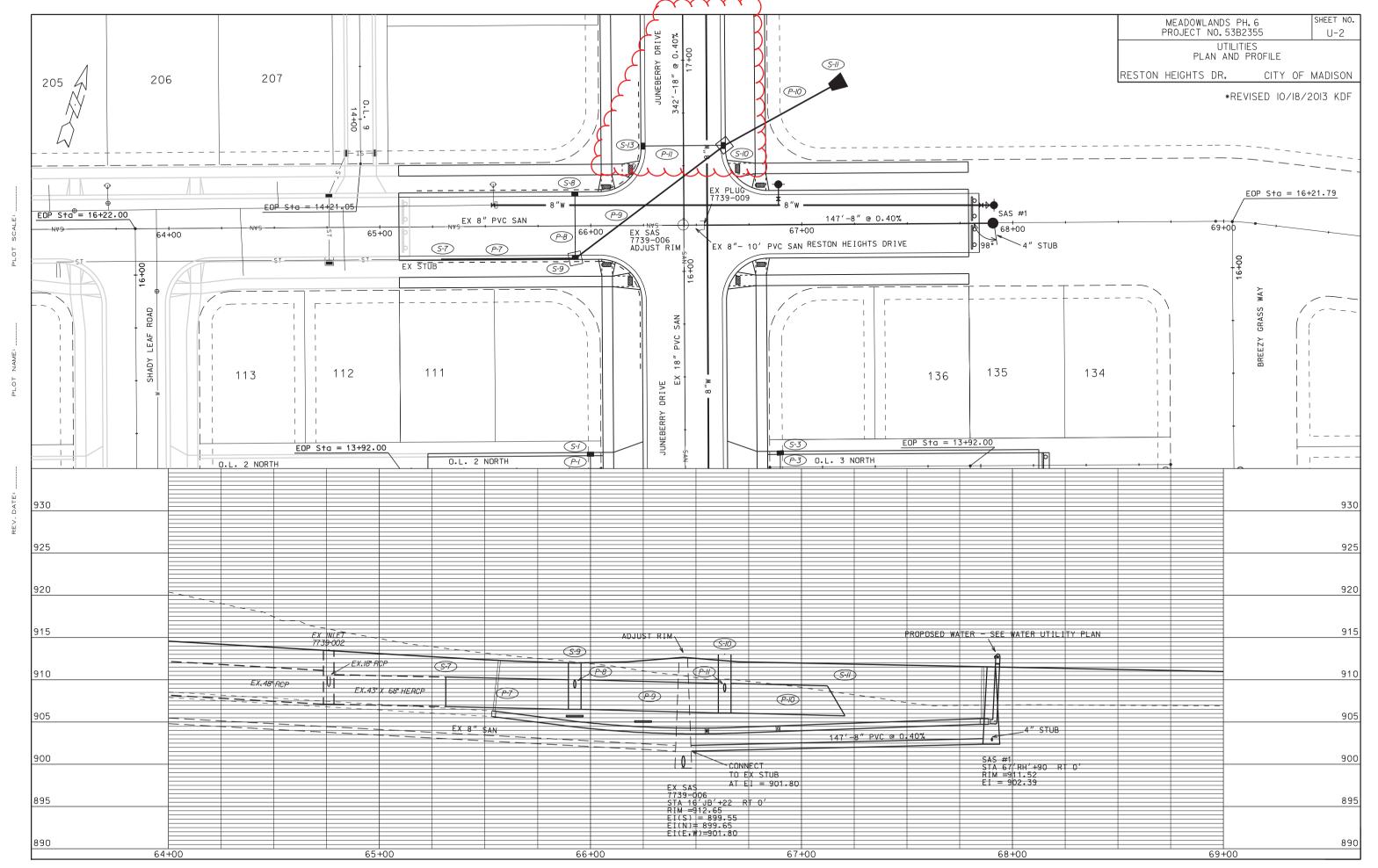


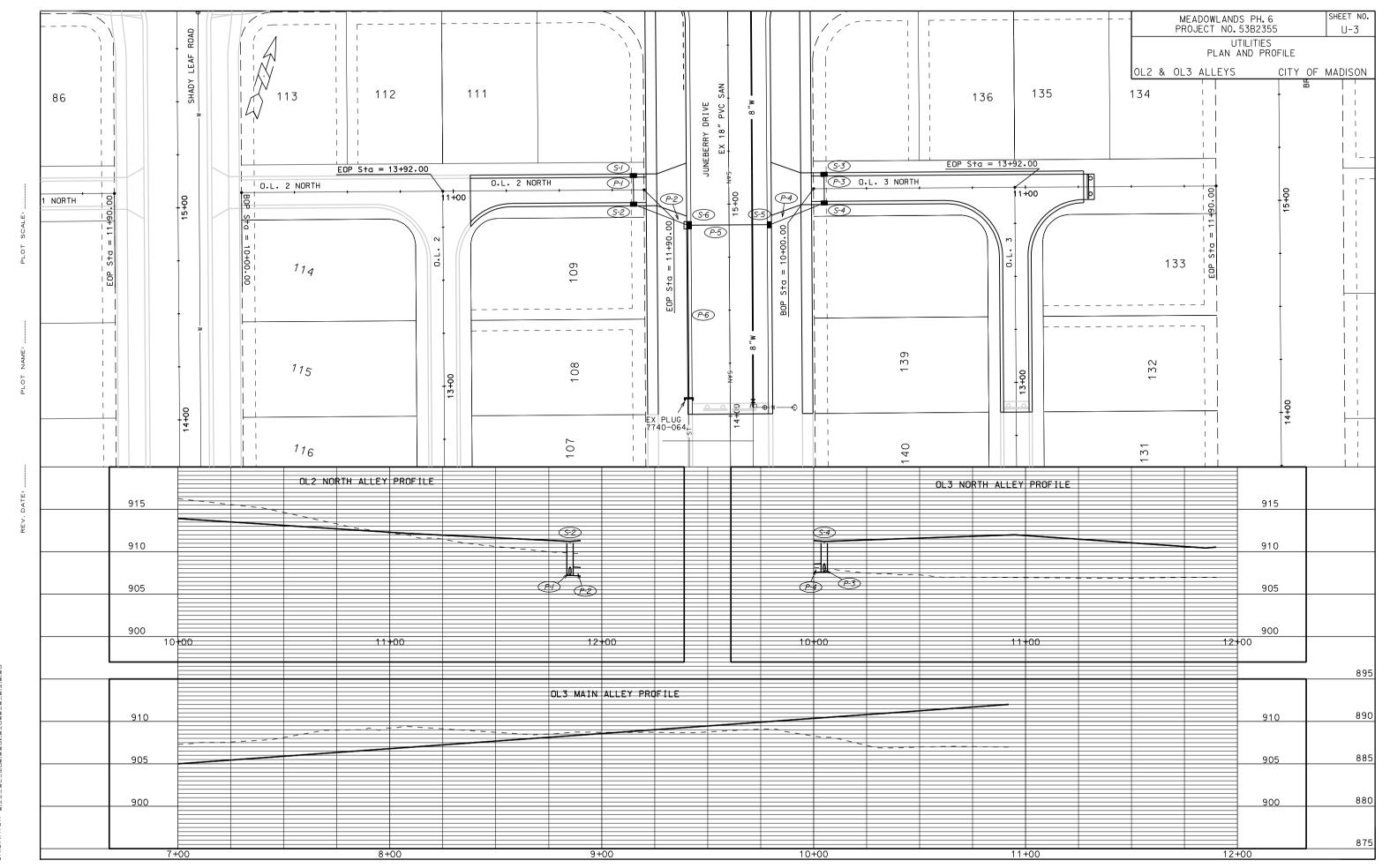












SANITARY SEWER SCHEDULE

ALIGNMENT CODES:

'RH' - RESTON HEIGHTS 'JB' -JUNEBERRY DRIVE 'O2' -O.L. 2

'O3' -O.L. 3

913.02 908.96 4.06 W/ R-3067-7004

MEADOWLANDS PH. 6 PROJECT NO. 53B2355

CITY OF MADISON

SHEET NO

U-4

SANITARY AND STORM SCHEDULES

* REVISED 10/18/2013 KDF

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
SAS #1	67'RH'+90.00	CL	911.52	902.39	9.13	4' DIA
SAS 7739-005	19'JB'+64.00	CL	916.02	901.02	15.00	4' DIA

PROPOSED SANITARY PIPES

FROM SAS	TO SAS	EI#	EI#	LENGTH	SLOPE	SIZE	PVC	NOTES
(DWNSTRM)	(UPSTREAM)	(DWNSTRM)	(UPSTRM)	(FT)	(%)	(DIA)	TYPE	
EX.SAS 7739-006	SAS #1	901.80	902.39	147	0.40%	8" 18"	SDR-35	

STORM SEWER SCHEDULE

LT-19.50

H INLET

16'JB'+59.55

PROPOSED STORM STRUCTURES									PROPOSED STORM PIPES									
	STRUC.	STATION	LOCATION	TYPE	TOP OF	E.I.	DEPTH	NOTES	PIPE	FROM	TO	LGTH	DISCH.	INLET	SLOPE	PIPE	TYPE	NOTES
	NO.		(OFFSET)		CASTING				NO.	(DNSTM)	(UPSTM)	(FT)	E.I.	E.I.	(%)	SIZE		
	S-1	11'O2'+85.00	LT-6.75	H INLET	911.27	907.31	3.96	W/ R-3382, (1)	P-1	S-2	S-1	14	907.21	907.31	0.75%	12"	RCP	
	S-2	11'O2'+85.00	RT-6.75	H INLET	911.03	907.21	3.82	W/ R-3382, (1)	P-2	S-6	S-2	27	906.80	907.21	1.50%	12"	RCP	
	S-3	10'O3'+05.00	LT-6.75	H INLET	911.27	907.76	3.51	W/ R-3382, (1)	P-3	S-4	S-3	14	907.60	907.76	1.20%	12"	RCP	
	S-4	10'O3'+05.00	RT-6.75	H INLET	911.03	907.60	3.43	W/ R-3382, (1)	P-4	S-5	S-4	27	907.27	907.60	1.20%	12"	RCP	
	S-5	14'JB'+90.17	RT-19.50	H INLET	910.42	907.02	3.40	W/ R-3067-7004, FP	P-5	S-6	S-5	39	906.55	907.02	1.20%	15"	RCP	
	S-6	14'JB'+90.17	LT-19.50	3X3 SAS	910.42	906.30	4.12	W/ R-3067-7004, FP	P-6	EX PLUG 7740-064	S-6	81	904.98	906.30	1.63%	18"	RCP	
	S-7	65'RH'+28.97	RT-15.50	EX. STORM STUB		906.83			P-7	S-9	S-7	64	906.51	906.83	0.50%	43"X68"	HERCP	
	S-8	65'RH'+92.59	LT-15.50	H INLET	912.09	909.25	2.84	W/ R-3067-7004, FP	P-8	S-9	S-8	31	909.09	909.25	0.50%	12"	RCP	
	S-9	65'RH'+92.59	RT-15.50	6X6 SAS	912.09	906.51	5.58	W/ R-3067-7004, FP, CAST PIPE INTO ROOF	P-9	S-10	S-9	89	906.07	906.51	0.50%	43"X68"	HERCP	
	S-10	16'JB'+59.55	RT-19.50	6X6 SAS	913.02	906.07	6.95	W/ R-3067-7004, FP, CAST PIPE INTO ROOF	P-10	S-11	S-10	65	905.50	906.07	0.88%	43"X68"	HERCP	
	S-11	67'RH'+20.61	LT-68.30	43"X68" RCP AE		905.50		W/ AE GATE, (2)	* P-11	S-10	S-13	39	908.57	908.96	1.00%	12"	RCP	
_	S-12	16'JB'+40.81	LT-5.55	STM TAP		908.01		-(3)										

SPECIFIC NOTES

S-13

(1) H INLETS IN ALLEYS SHALL HAVE NEENAH R-3382 FRAMES AND GRATES, PER S.D.D. 5.7.33 CASTING GRADES GIVEN AT FLOW LINE.

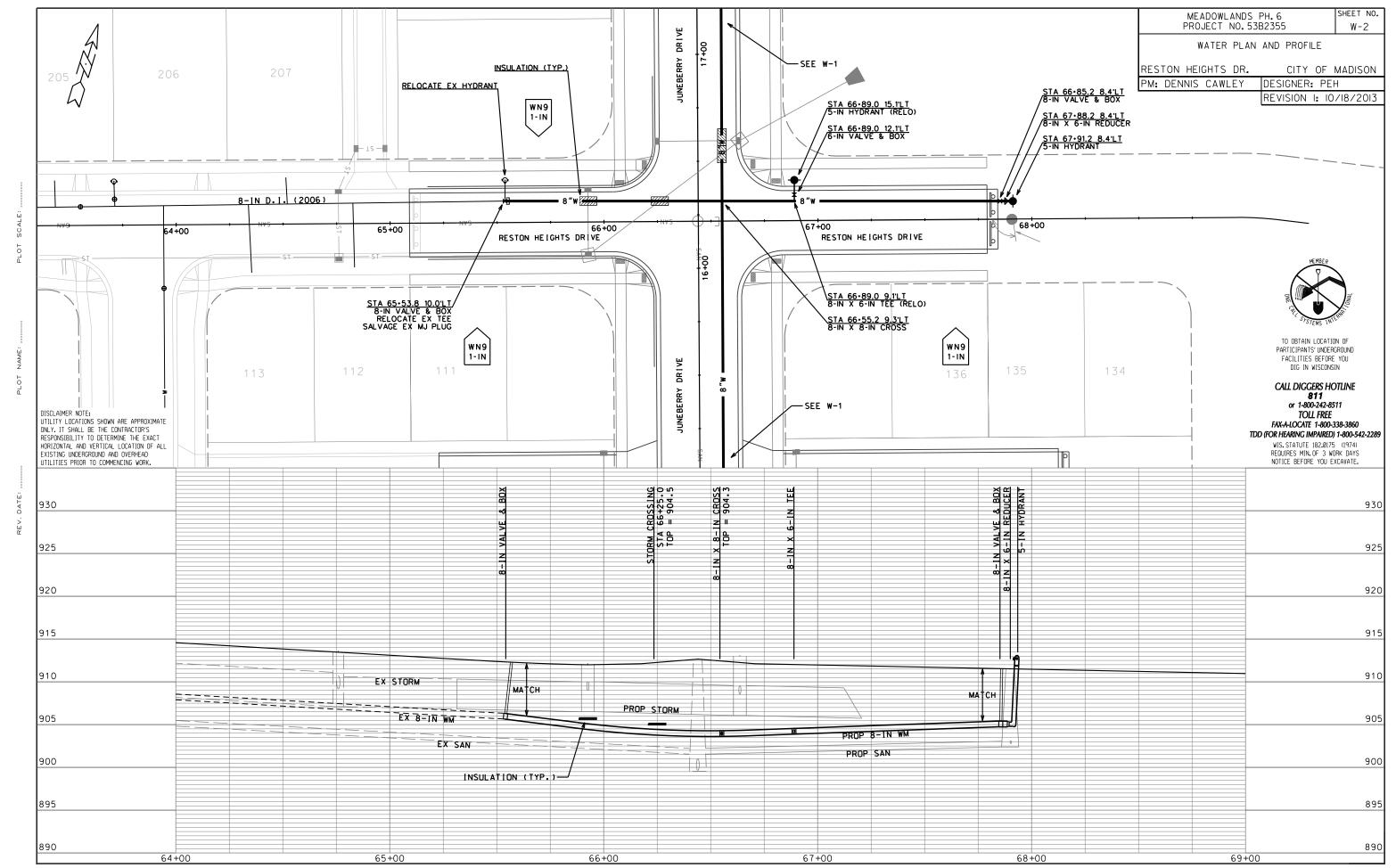
(2) STATION AND OFFSET FROM END OF AE. SEE STANDARD DETAIL DRAWINGS 5.4.1 AND 5.4.4

(3) INSTALL ELECTRONIC MARKER BALL ABOVE TAP

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



- 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.

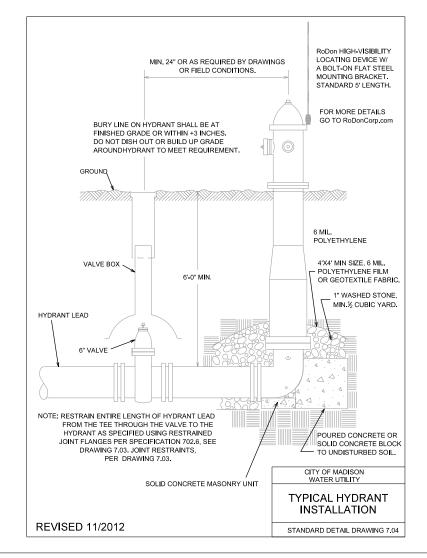
- WN1 REPLACE THE EXISTING LEAD SERVICE WITH A NEW COPPER SERVICE.
- WN2 EXTEND AND RECONNECT THE EXISTING COPPER SERVICE TO THE NEW WATER MAIN (OR TO THE LARGER PARALLEL EXISTING MAIN).
- WN3 EXISTING SERVICE TO BE ABANDONED WHEN THE WATER MAIN IS CUT OFF.
- WN4 DISCONNECT FROM THE OLD WATER MAIN AND 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 620' - 8" PIPE
- 710' POLYWRAP
- 1 6" VALVE & BOX 4 - 8" VALVE & BOX
- 1 8"X8" CROSS
- 2 8"X6" REDUCER
- 2 5" HYDRANT
- 40' 2" STYROFOAM INSULATION
- 1-IN COPPER TUBING (AS REQUIRED)

MATERIALS REUSED

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



MEADOWLANDS PH 6 PROJECT NO. 53B2355

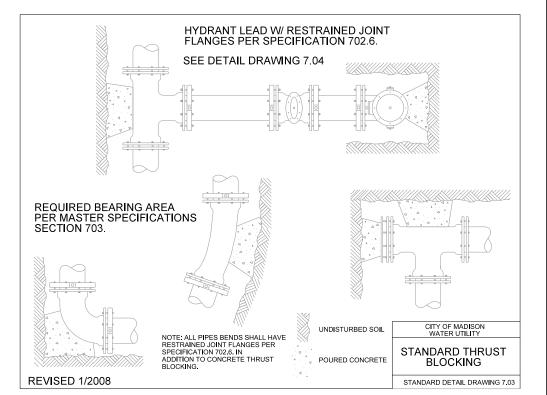
PM: DENNIS CAWLEY

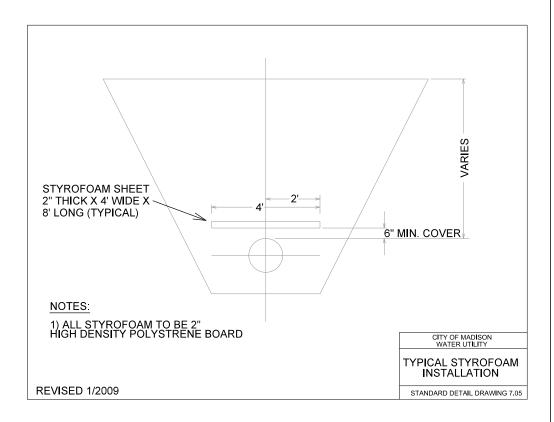
SHEET NO. W-4

WATER ESTIMATE OF MATERIALS

CITY OF MADISON

DESIGNER: PEH





PIGINATOP: CITY OF MADISON STREE