

Madison, Wisconsin

INDEX OF SHEETS

SHEET NO.	TITLE
1	NOTES AND DETAILS
D1-D2	STREET PLAN & PROFILE
P1-P2	O.L. 42 SIDEWALK PLAN
P3	UTILITY PLAN & PROFILE
U1-U2	SANITARY SEWER SCHEDULE
U3	STORM SEWER SCHEDULE
U4	O.L. 42 BIORETENTION BASIN
U5-U6	WATER PLAN & PROFILE
W1-W2	WATER MATERIALS AND DETAILS
W3	

CITY OF MADISON

CITY ENGINEERING DIVISION
DEPARTMENT OF PUBLIC WORKS

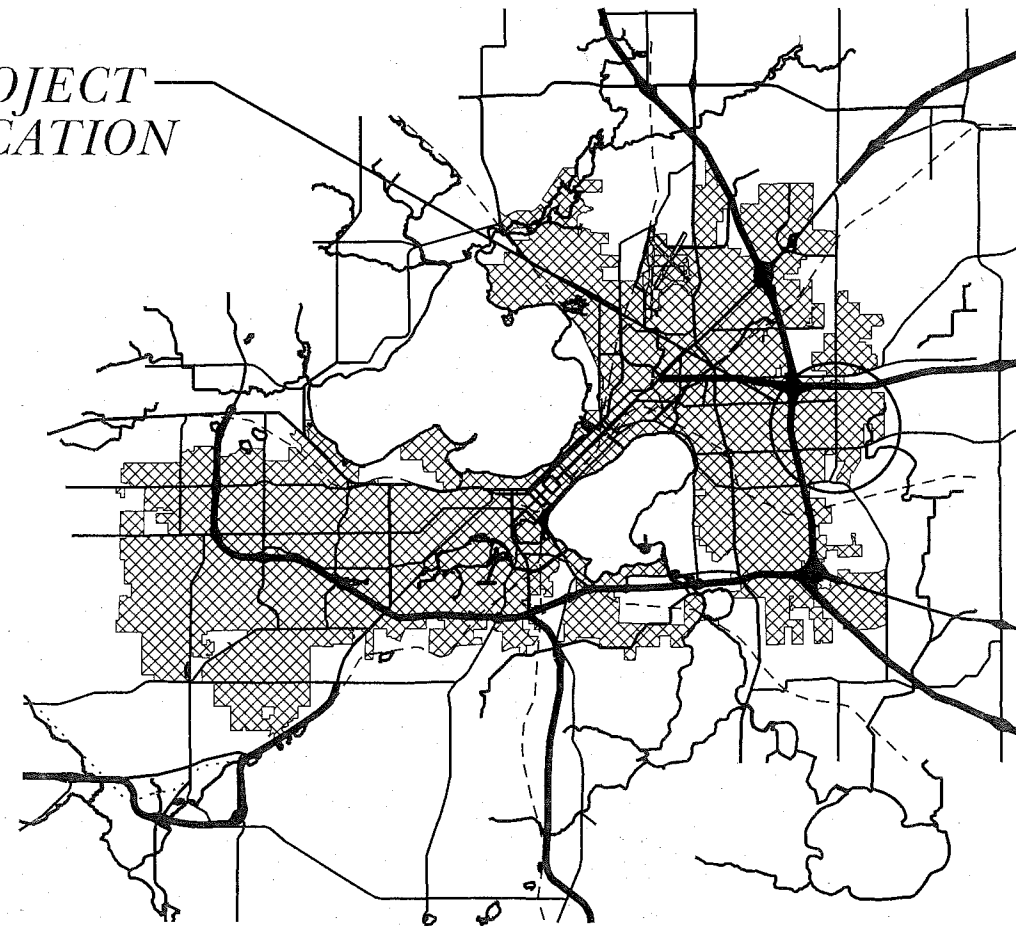
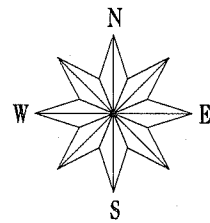
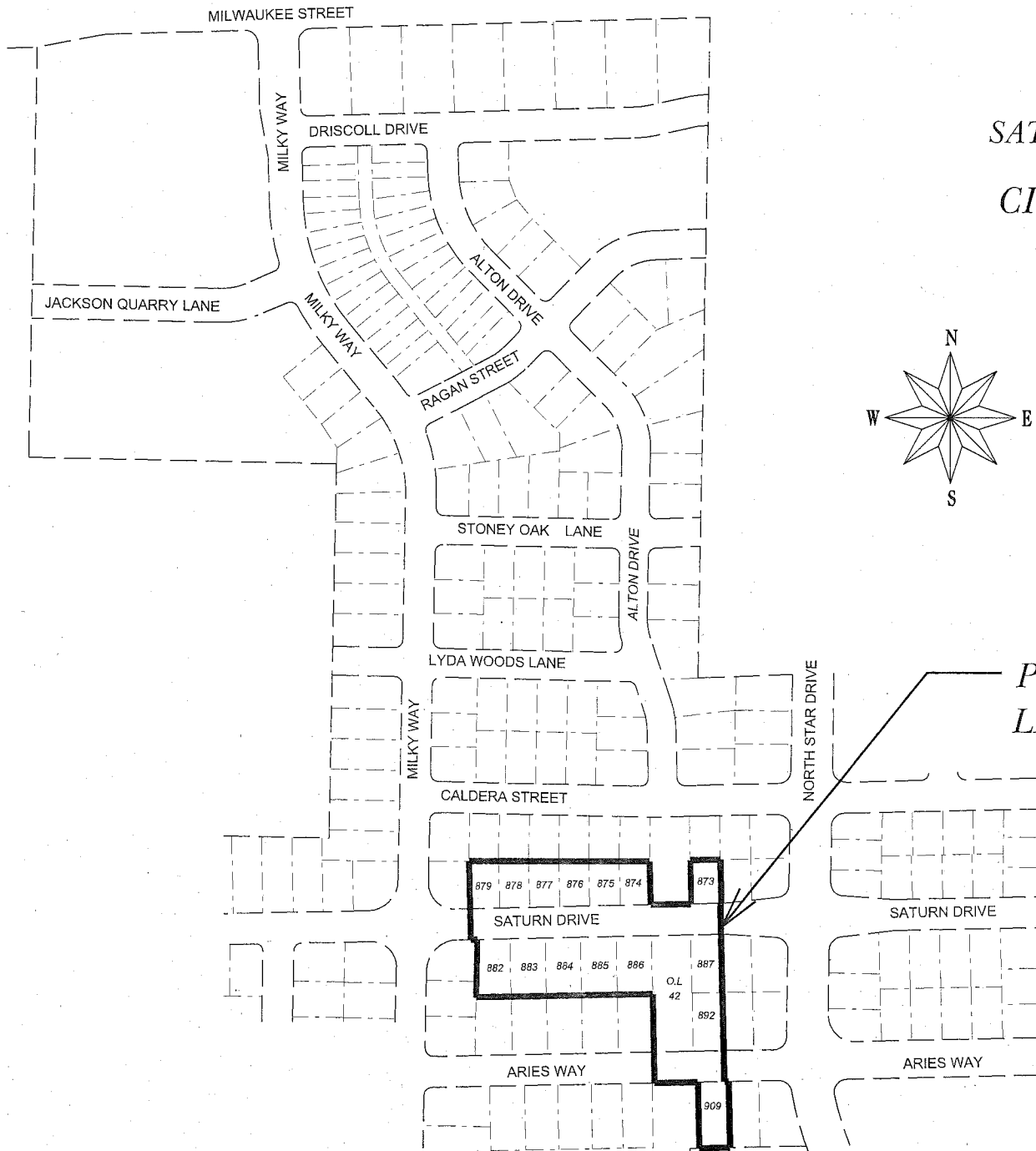
PLAN OF PROPOSED IMPROVEMENT GRANDVIEW COMMONS NORTH ADDITION PHASE 3

SATURN DRIVE, ARIES WAY

CITY PROJECT NO. 11316
CONTRACT NO. 7656

PROJECT
LOCATION

PHASE
LIMITS

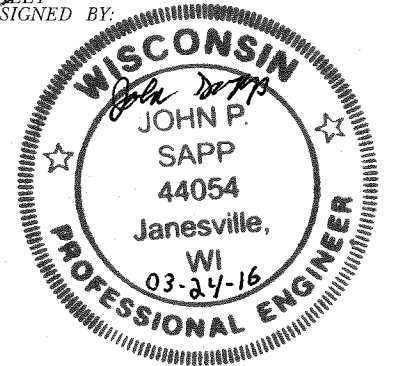


PUBLIC IMPROVEMENT PROJECT APPROVED
JANUARY 5, 2016
BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

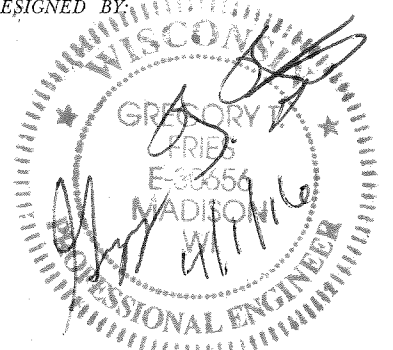
Michael Rooley 4/1/2016
City Engineer Date

STREET
DESIGNED BY:



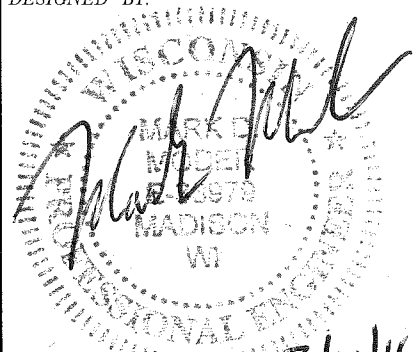
CIVIL ENGINEER

STORM SEWER
DESIGNED BY:



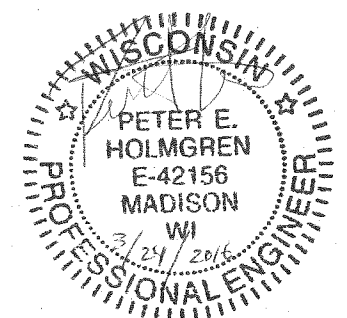
CIVIL ENGINEER

SANITARY SEWER
DESIGNED BY:



CIVIL ENGINEER

WATER DISTRIBUTION
DESIGNED BY:



CIVIL ENGINEER

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.

ALL PAVEMENT SHALL BE TYPE A 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

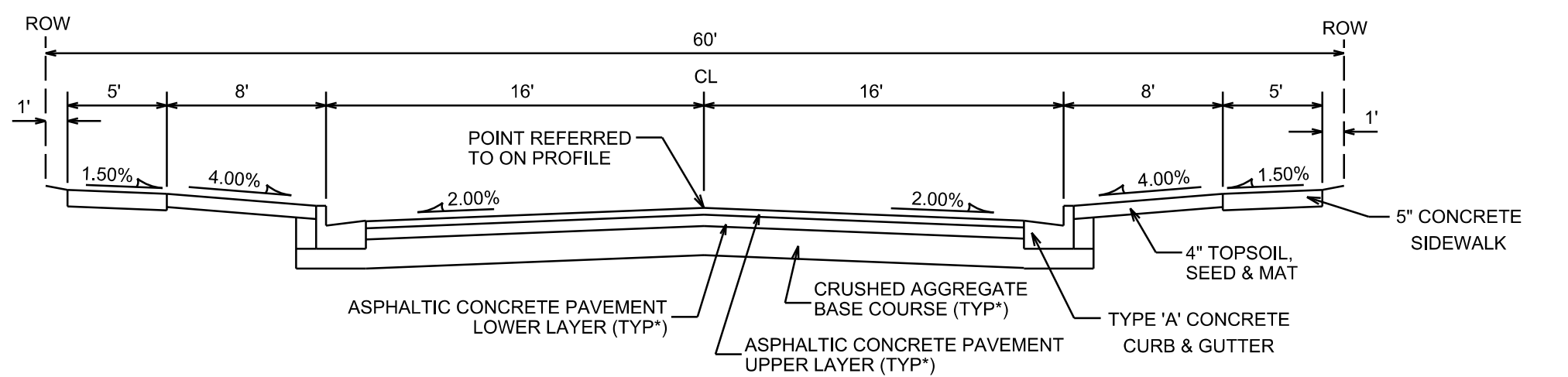
GAS	—— G ——
STORM SEWER	—— ST ——
SANITARY SEWER	—— SAN ——
WATER	—— W ——
OVERHEAD ELECTRIC	—— OH ——
POWER POLE	⊕
ADA COMPLIANT RAMP W/ DETECTABLE WARNING FIELD	
COMBUSTIBLE FLUIDS	

PLOT SCALE: _____

PLOT NAME: _____

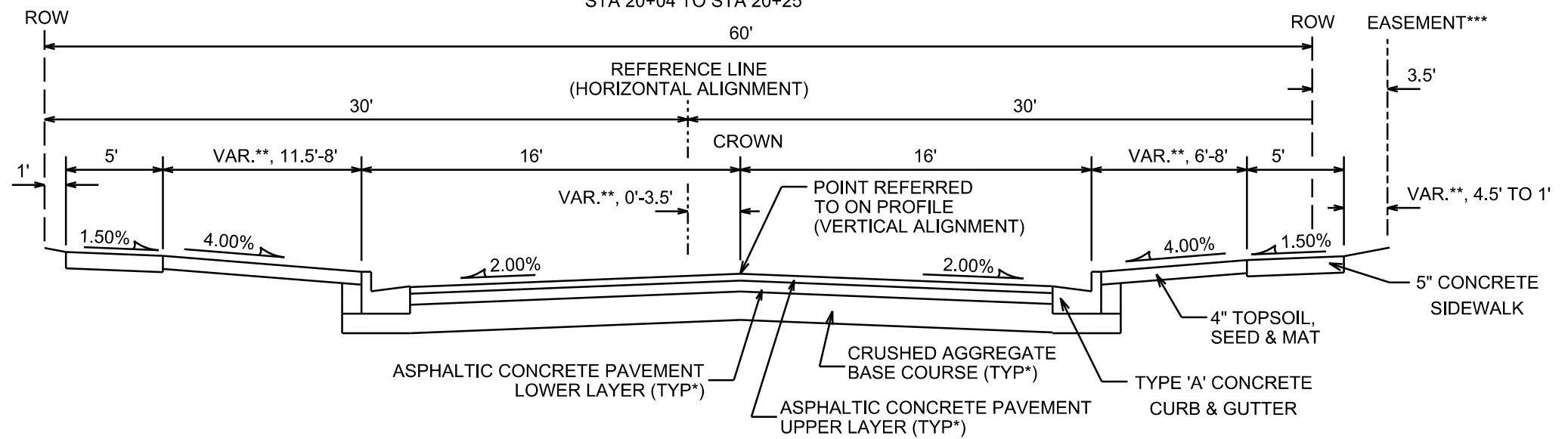
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



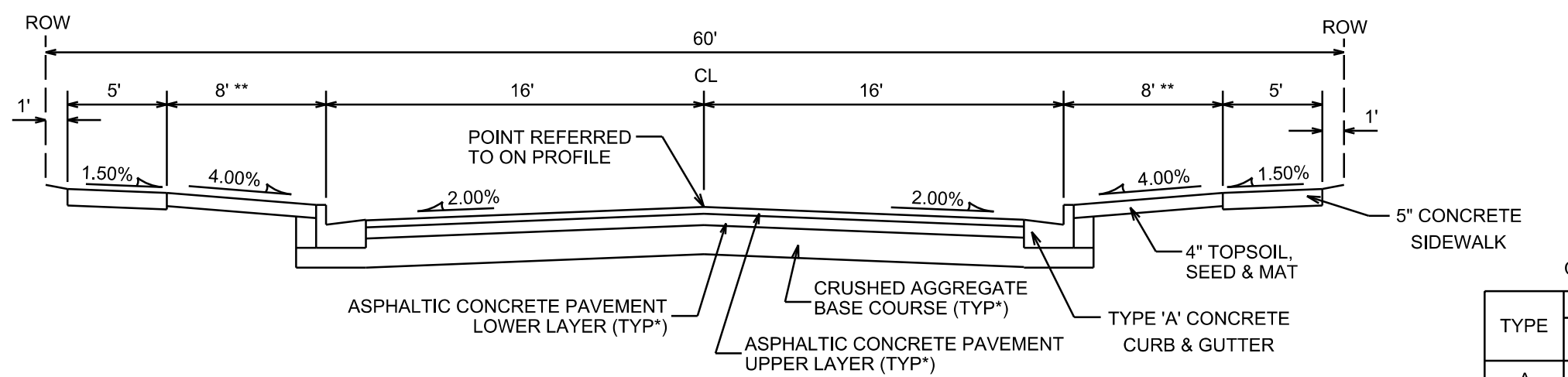
TYPICAL SECTION

ARIES WAY
STA 20+04 TO STA 20+25



TYPICAL SECTION

ARIES WAY
STA 20+25 TO STA 21+23



TYPICAL SECTION

SATURN DRIVE

NOTES:

* ARIES WAY AND SATURN DRIVE TO BE CONSTRUCTED AS TYPE 'A' PAVEMENT PER CITY OF MADISON MINIMUM PAVEMENT DESIGN

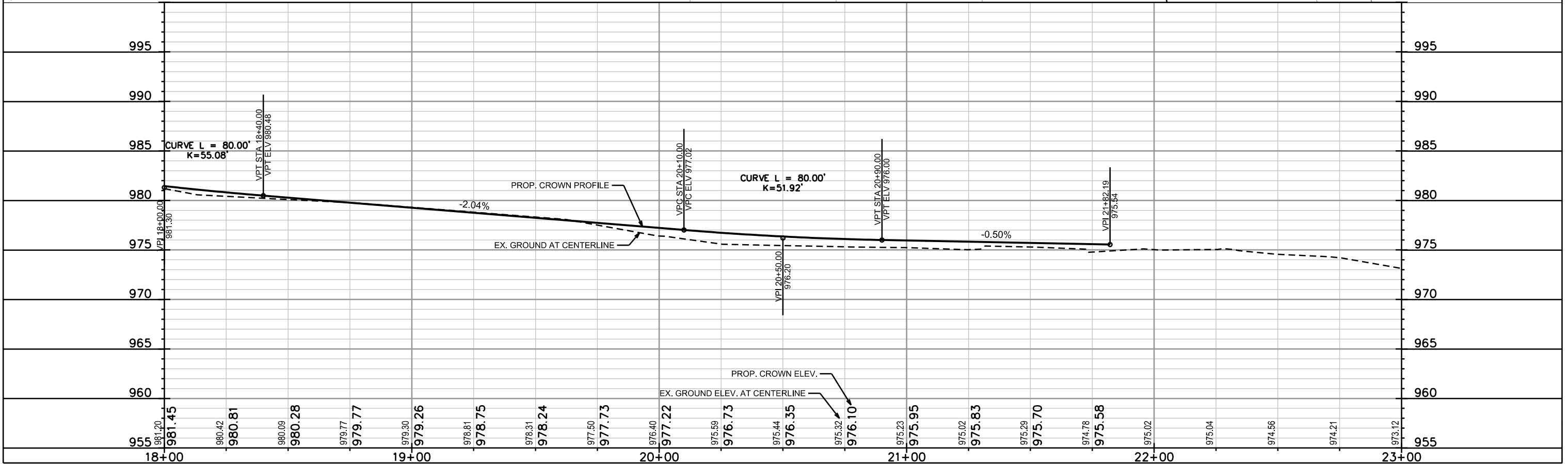
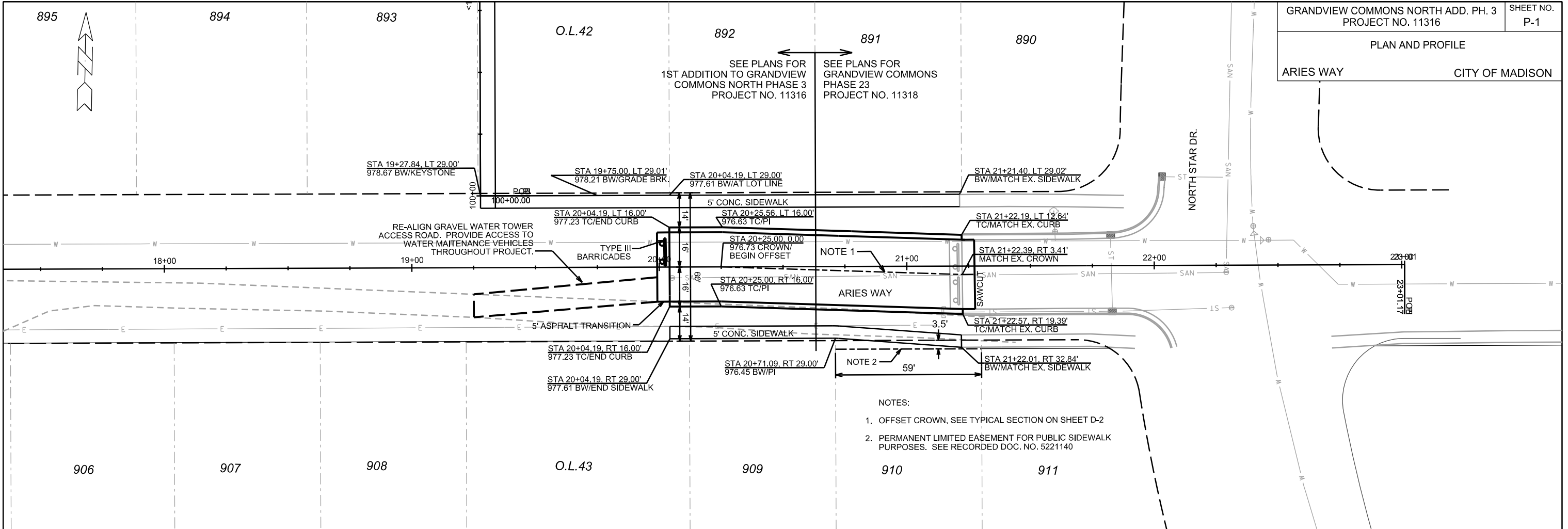
** SEE SHEET P-1.

*** PERMANENT LIMITED EASEMENT FOR PUBLIC SIDEWALK PURPOSES. SEE RECORDED DOC. NO. 5221140

CITY OF MADISON MINIMUM PAVEMENT DESIGN

TYPE	CRUSHED AGG. BASE COURSE		ASPHALTIC CONCRETE PAVEMENT			
	LOWER LAYER GRADATION 1	UPPER LAYER GRADATION 2	TYPE	THICKNESS	TYPE	THICKNESS
A	6"	4"	E-0.3	1.75"	E-0.3	1.75"
B	6"	4"	E-1	2.25"	E-1	2"
C	6"	4"	E-3	3.25"	E-3	2"

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



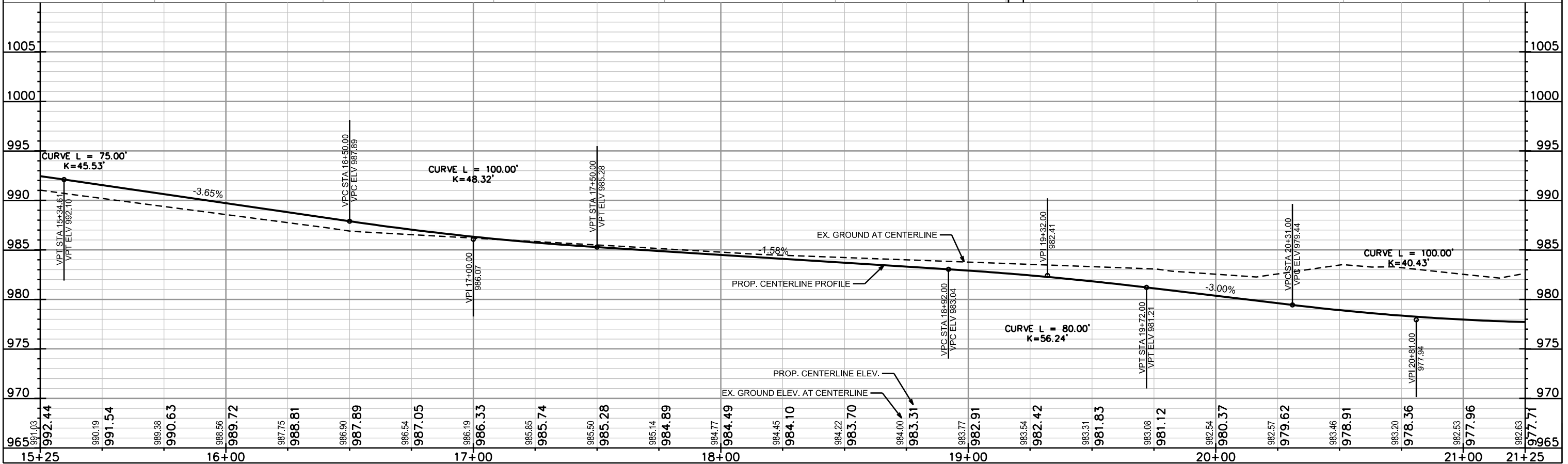
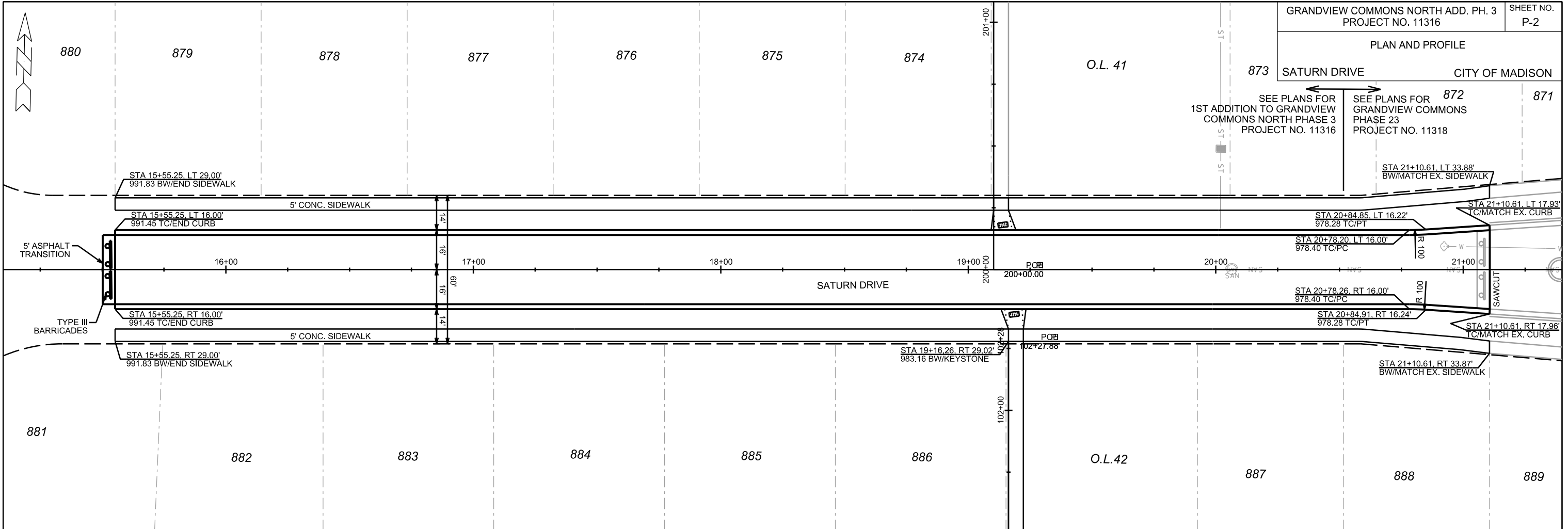
PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

PLAN AND PROFILE
SATURN DRIVE CITY OF MADISON



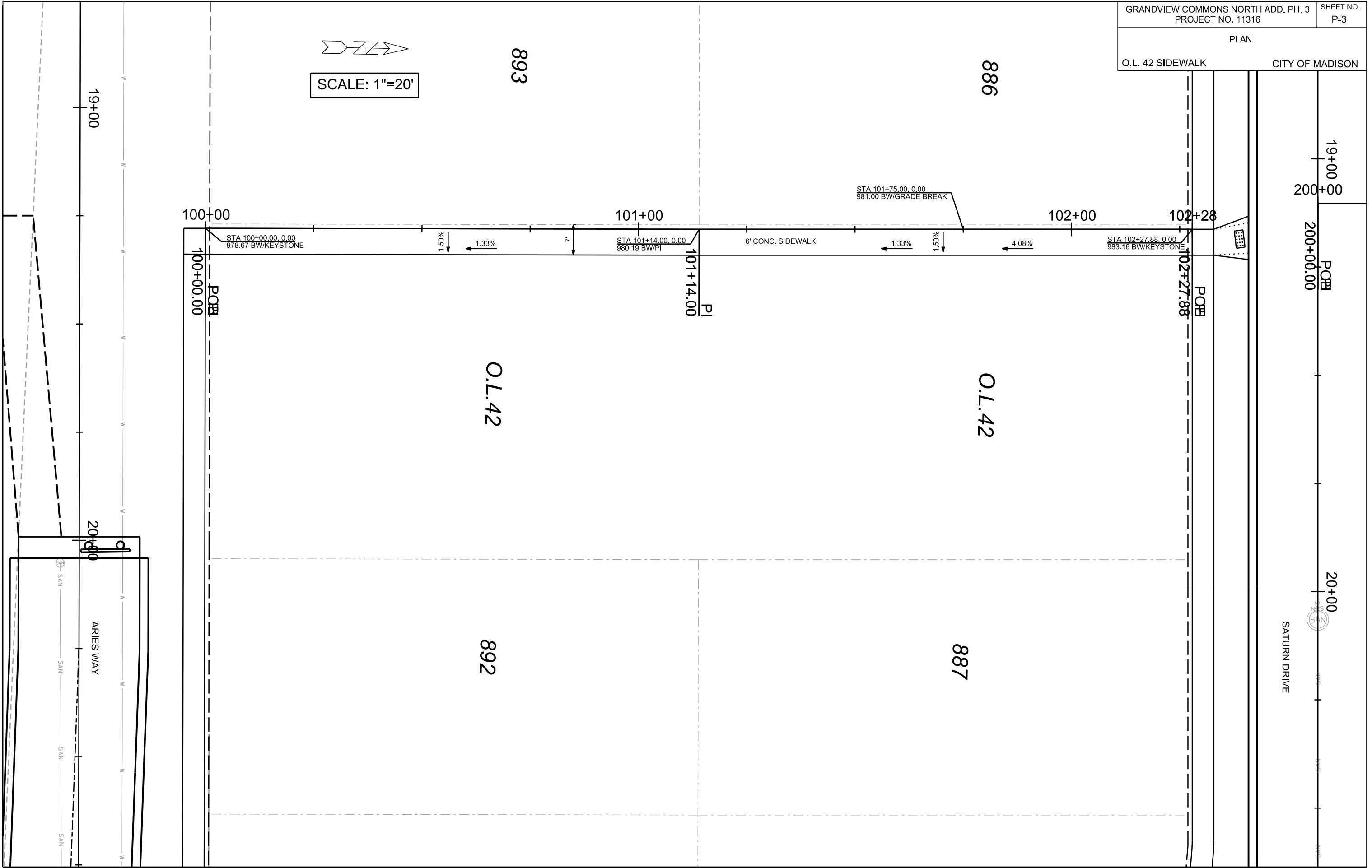
PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

SCALE: 1"=20'



PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

19+00
200+00

POB
200+00.00

20+00

SATURN DRIVE

19+00

20+00

ARIES WAY

SAN SAN SAN SAN

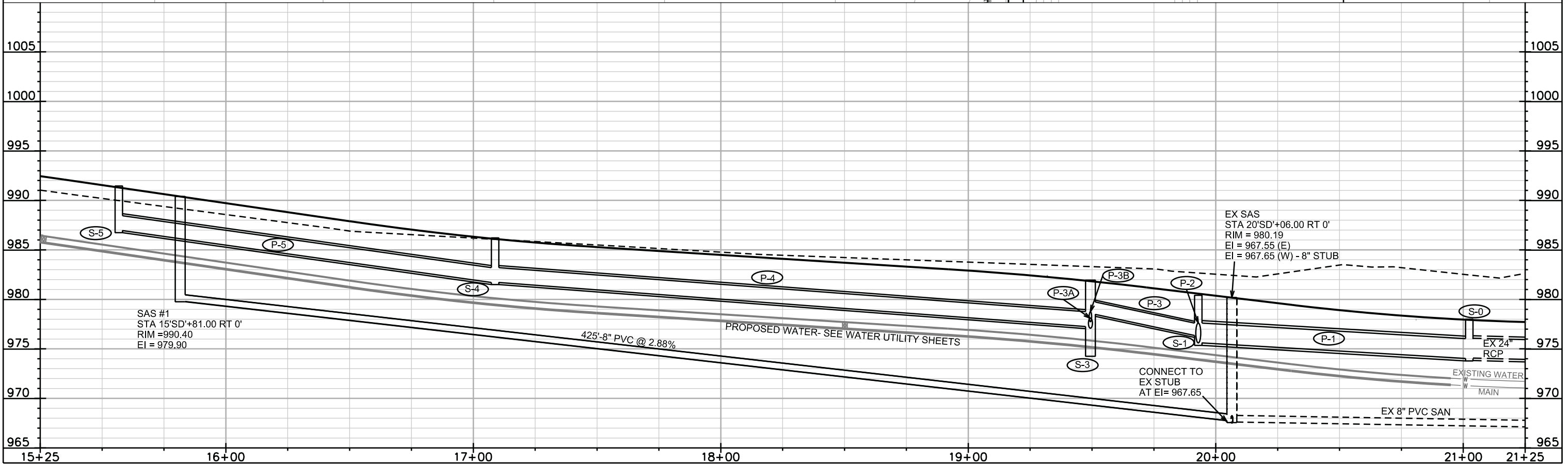
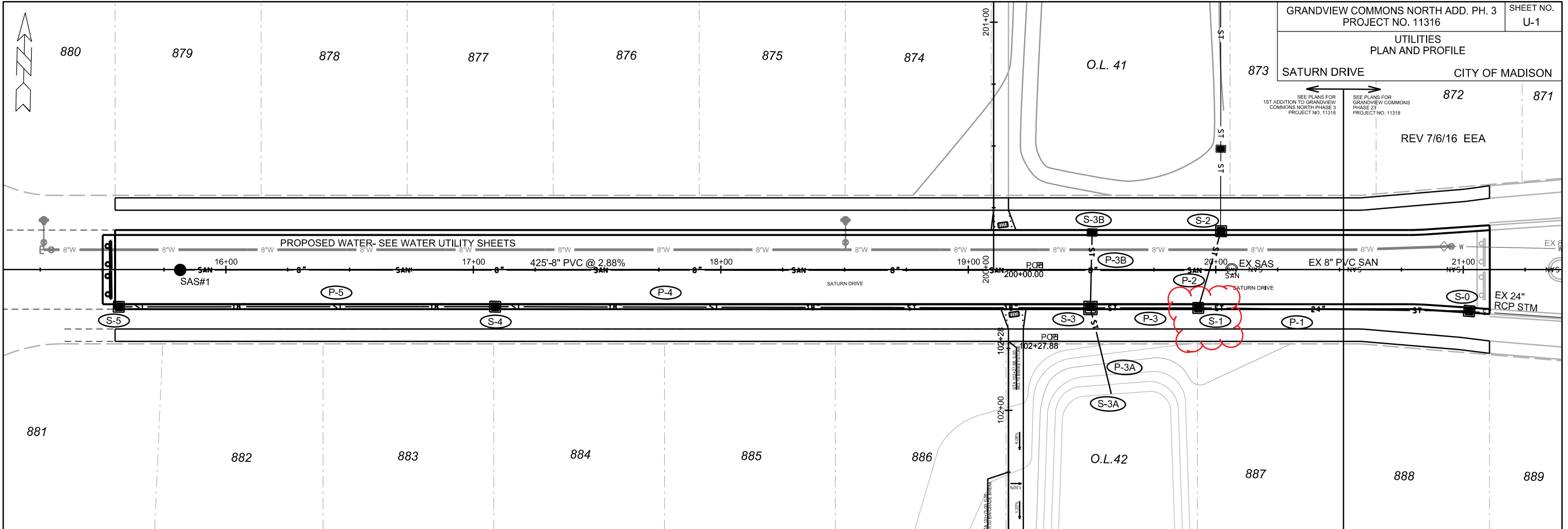
UTILITIES
PLAN AND PROFILE

SATURN DRIVE CITY OF MADISON

SEE PLANS FOR
1ST ADDITION TO GRANDVIEW
COMMONS NORTH PHASE 3
PROJECT NO. 11316

SEE PLANS FOR
GRANDVIEW COMMONS
PHASE 23
PROJECT NO. 11316

REV 7/6/16 EEA

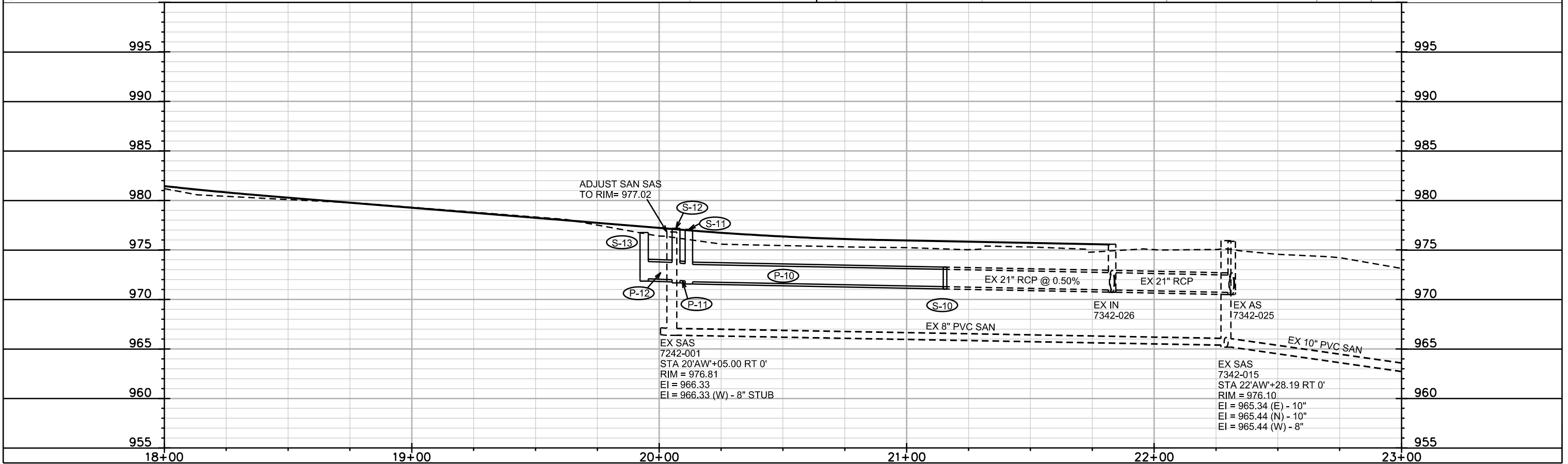
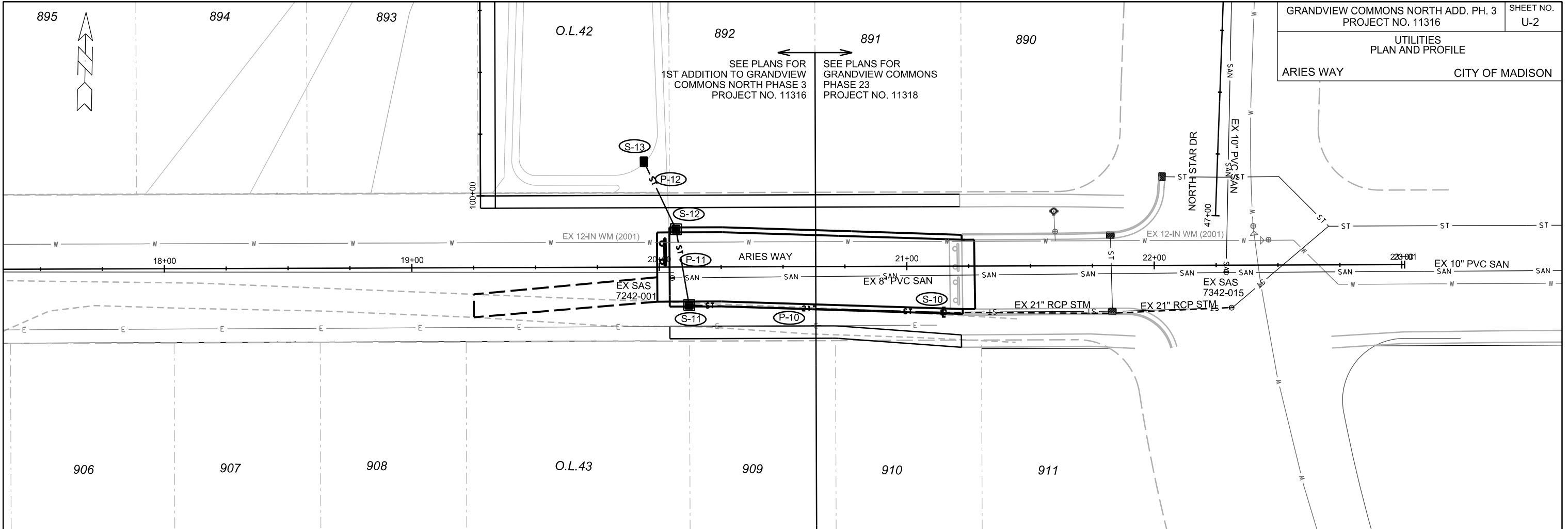


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

SANITARY SCHEDULE

ALIGNMENT CODES:

"SD" = SATURN DRIVE
 "AW" = ARIES WAY

GRANDVIEW COMMONS NORTH ADDITION PH 3	SHEET NO.
PROJECT NO. 11316	U-3
SANITARY SEWER SCHEDULE	
CITY OF MADISON	

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
SAS#1	15'SD'+81.00	CL	990.40	979.90	10.50	-

PROPOSED SANITARY PIPES

FROM SAS (DWNSTRM)	TO SAS (UPSTREAM)	EI # (DWNSTRM)	EI # (UPSTRM)	PLAN LENGTH (FT)	SLOPE (%)	SIZE (DIA)	PVC TYPE	NOTES
EX SAS	SAS#1	967.65	979.90	425	2.88%	8"	SDR-35	-

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

STORM SEWER SCHEDULE

* REV 7/6/16 EEA

GRANDVIEW COMMONS NORTH ADD. PH. 3	SHEET NO.
PROJECT NO. 11316	U-4
STORM SEWER SCHEDULE	
CITY OF MADISON	

ALIGNMENT CODES:

'SD' = SATURN DRIVE
'AW' = ARIES WAY

GRANDVIEW COMMONS PH 23

STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
S-0	21+02.43	RT-16.78	3X3 SAS	978.00	974.03	3.97	FP; W/ R-3067-7004-VB; REMOVE PIPE PLUG
S-10	21'AW'+14.80	RT-18.72	CONCRETE COLLAR	-	971.29	-	REMOVE PIPE PLUG

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	110	974.03	975.60	1.43%	24"	RCP	-
P-10	S-10	S-11	103	971.29	971.80	0.50%	21"	RCP	-

GRANDVIEW COMMONS NORTH ADD. PH 3

STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
* S-1	19+92.92	RT-15.50	3X3 SAS	980.68	975.60	5.08	W/ R-3067-7004-VB
S-2	20+02.14	LT-15.50	3X3 SAS	980.41	975.96	4.45	W/ R-3067-7004-VB
S-3	19'SD'+49.36	RT-15.50	4X4 SAS	981.94	977.25	4.69	W/ R-3067-7004-VB; W/ 3 FT SUMP BELOW EI
S-3A	19'SD'+48.67	RT-50.00	PIPE END	-	975.75	-	-
S-3B	19'SD'+49.36	LT-15.50	H INLET	981.94	978.34	3.60	W/ R-3067-7004-VB
S-4	17'SD'+08.81	RT-15.50	3X3 SAS	986.21	981.71	4.50	W/ R-3067-7004-VB
S-5	15'SD'+56.76	RT-15.50	3X3 SAS	991.45	986.95	4.50	W/ R-3067-7004-VB
S-11	20'AW'+12.00	RT-15.50	3X3 SAS	977.08	971.80	5.28	W/ R-3067-7004-VB
S-12	20'AW'+06.78	LT-15.50	3X3 SAS	977.18	971.96	5.22	W/ R-3067-7004-VB
S-13	19'AW'+93.92	LT-42.57	H INLET	976.75	972.11	4.64	W/ R-1878-B7G

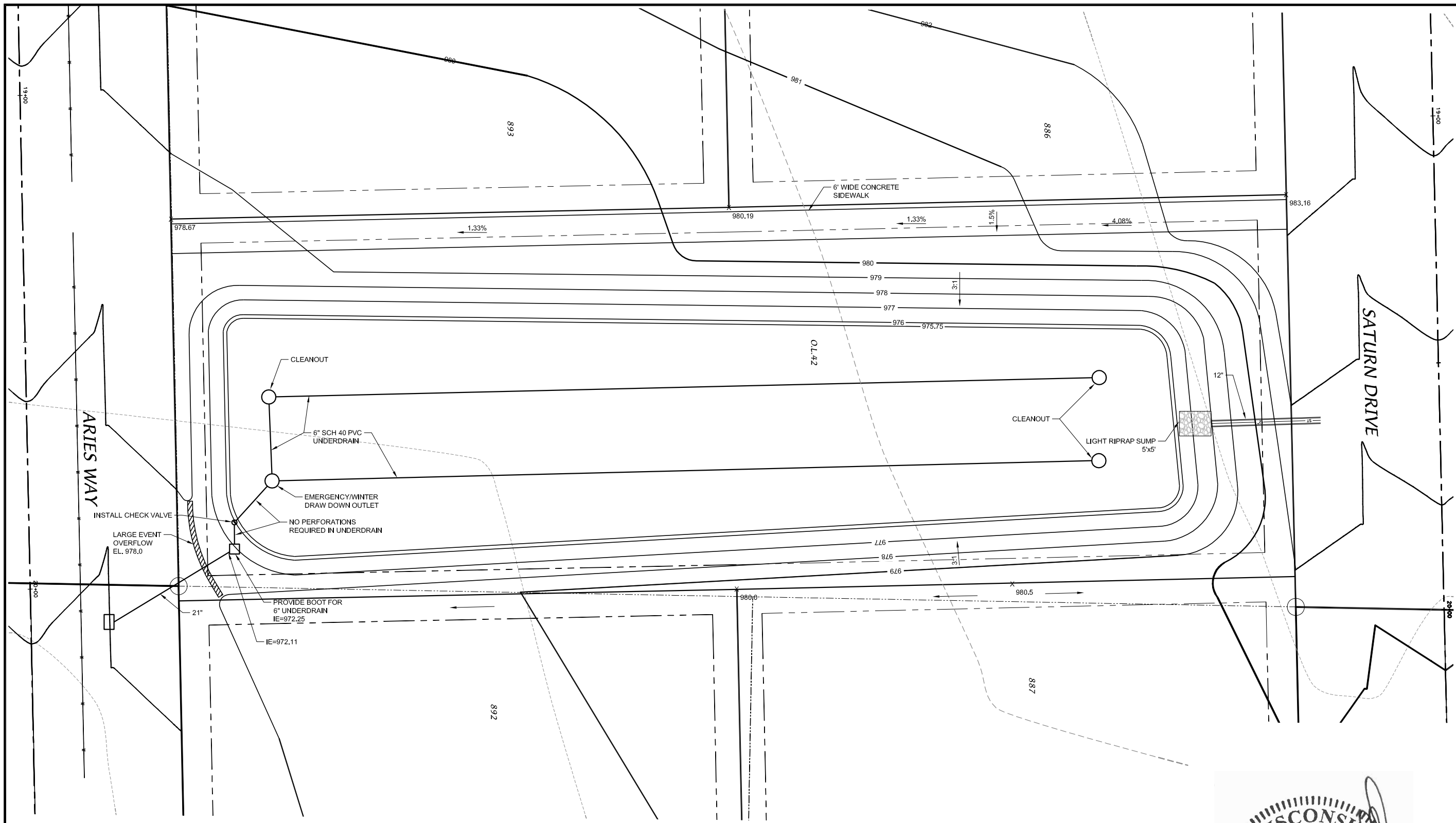
PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	LGTH (FT)	DISCH. E.I.	INLET E.I.	SLOPE (%)	PIPE SIZE	TYPE	NOTES
* P-2	S-1	S-2	32	975.60	975.96	1.13%	24"	RCP	-
* P-3	S-1	S-3	44	976.35	978.50	4.89%	15"	RCP	NCM
P-3A	S-3A	S-3	35	975.75	977.25	4.29%	12"	STORM TYPE II	NCM
P-3B	S-3	S-3B	31	977.75	978.34	1.90%	12"	RCP	-
P-4	S-3	S-4	241	977.25	981.71	1.85%	18"	RCP	-
P-5	S-4	S-5	152	981.71	986.95	3.45%	18"	RCP	-
P-11	S-11	S-12	31	971.80	971.96	0.52%	21"	STORM TYPE II	-
P-12	S-12	S-13	29	971.96	972.11	0.52%	21"	STORM TYPE II	-

SPECIFIC NOTES

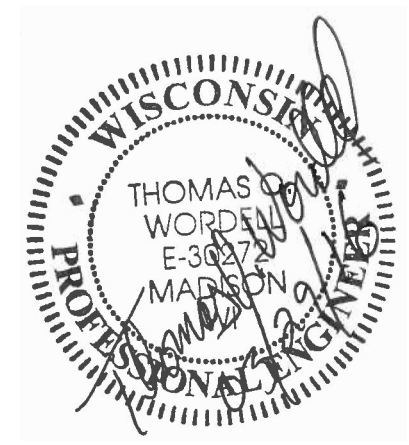
STANDARD NOTES:

- 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.



D'ONOFRIO KOTTKE AND ASSOCIATES, INC.
 7530 Westward Way, Madison, WI 53717
 Phone: 608.833.7530 • Fax: 608.833.1089
 YOUR NATURAL RESOURCE FOR LAND DEVELOPMENT

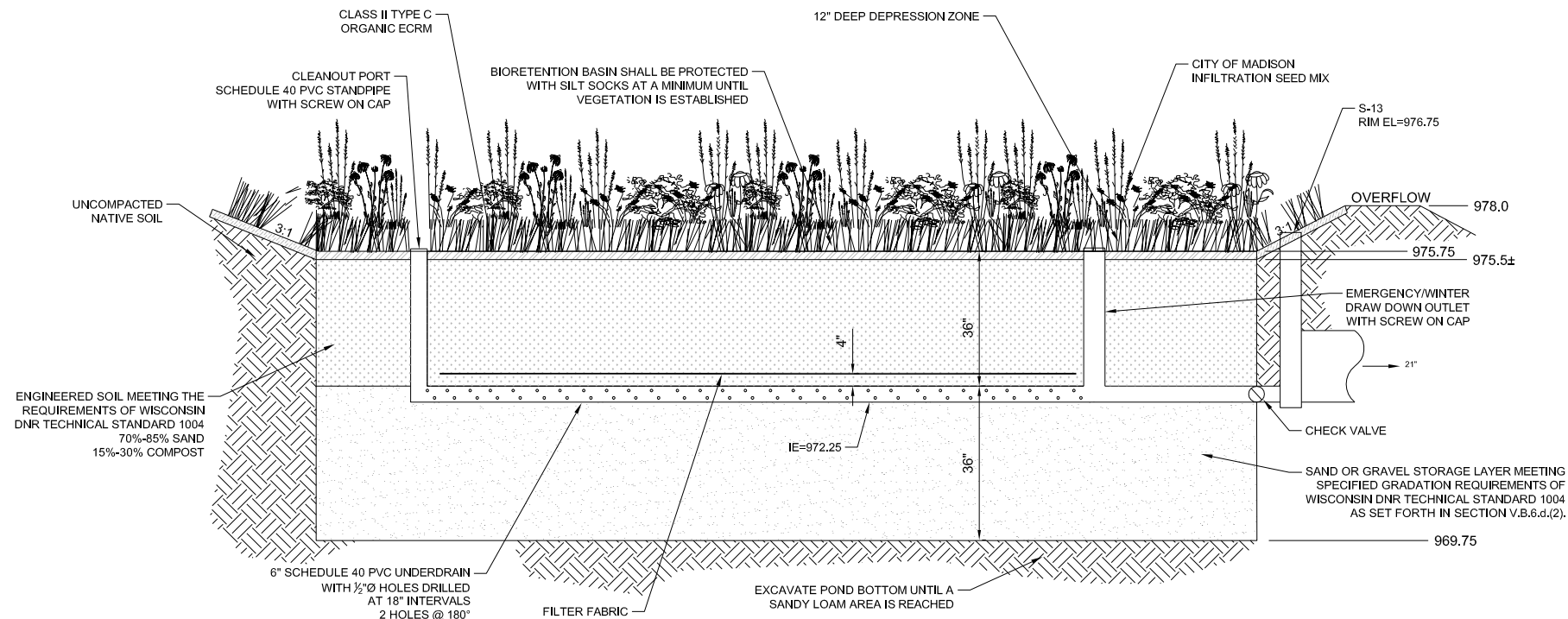
OUTLOT #2 BIORETENTION BASIN
GRANDVIEW COMMONS NORTH - PHASE 3
 CITY OF MADISON, DANE COUNTY, WISCONSIN



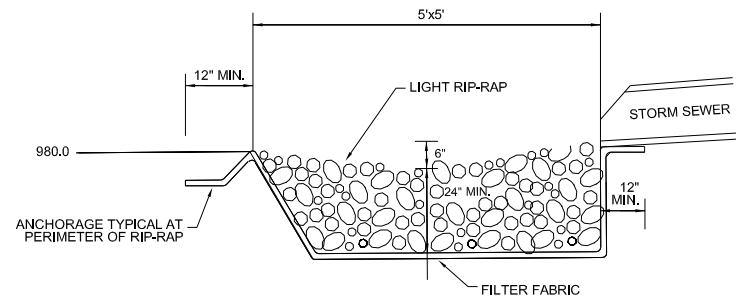
SCALE: 1" = 20'
 (PAGE SIZE: 11x17)

DATE: 03-29-16
 REVISED:

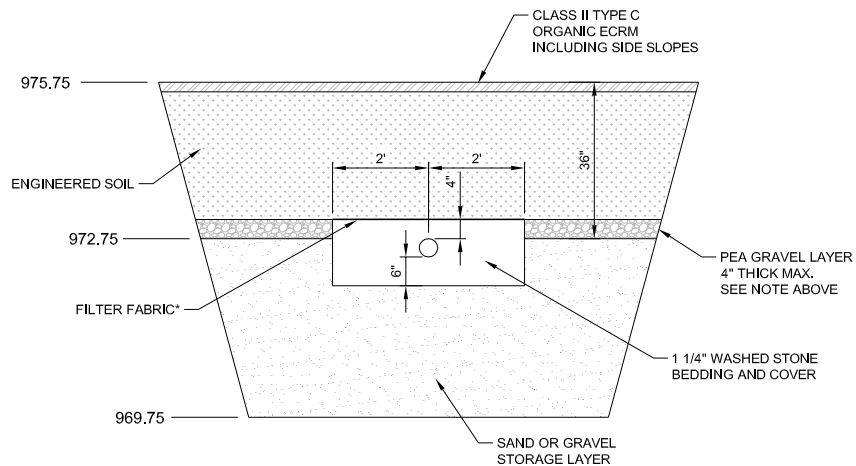
 DRAWN BY: JMS
 FN: 15-05-161
 Sheet Number:
 U-5



BIORETENTION BASIN - OUTLOT 42
NOT TO SCALE



RIPRAP
NOT TO SCALE



* IF STORAGE LAYER IS GRAVEL FILTER FABRIC IS REQUIRED OVER TOP OF THE PIPE ONLY. IF STORAGE LAYER IS SAND COMPLETELY WRAP BEDDING STONE WITH FILTER FABRIC.

UNDERDRAIN SECTION
NOT TO SCALE

NOTES:

DO NOT COMPACT BIORETENTION AREA DURING CONSTRUCTION.

THE CONTRACTOR IS REQUIRED TO PROVIDE QUALIFIED STAFF FOR INSPECTION AND OBSERVATION OF THE CONSTRUCTION ACTIVITIES RELATING TO ALL JOB SITE REGULATION COMPLIANCE INCLUDING THE PROTECTION, RECORDS AND CONSTRUCTION OF ALL STORMWATER MANAGEMENT FEATURES.

ALL WORK TO BE CONDUCTED IN CONFORMANCE WITH THE CITY OF MADISON STANDARDS AND WISCONSIN DNR TECHNICAL STANDARD 1004.

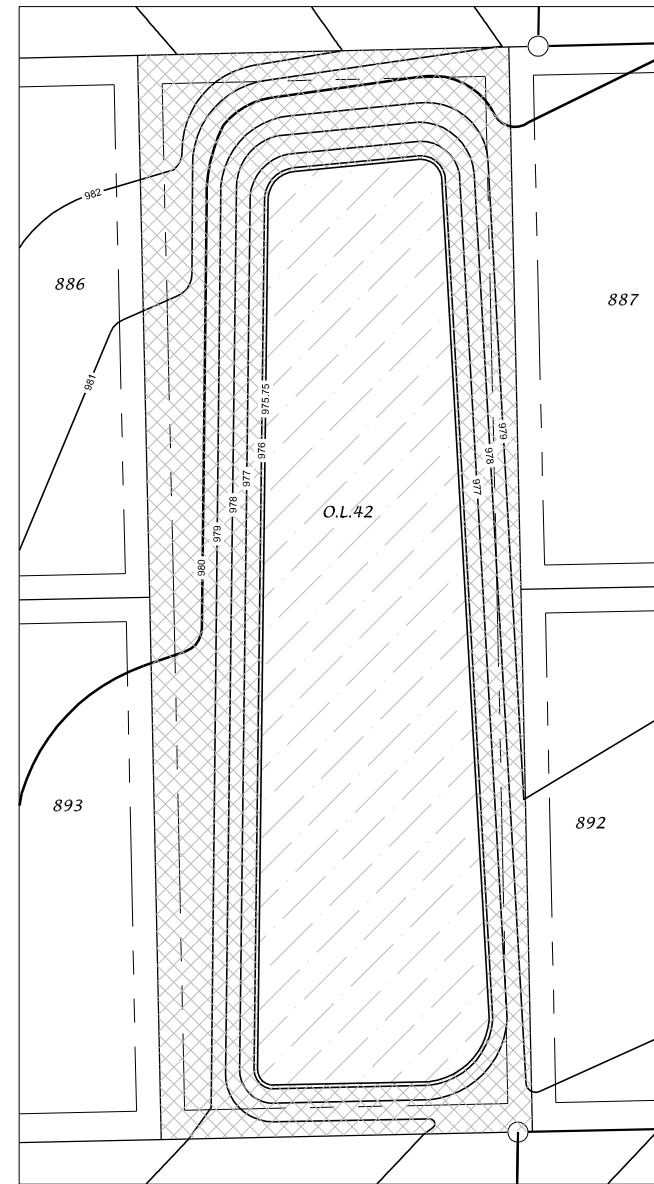
BIORETENTION DEVICE AREA SHALL BE FENCED PRIOR TO SITE CONSTRUCTION AND REMAIN UNDISTURBED AND PROTECTED FROM CONSTRUCTION AND SEDIMENT DURING THE CONSTRUCTION OF PROPOSED SITE IMPROVEMENTS. THE PROPOSED INFILTRATION BASIN SHALL NOT BE CONSTRUCTED UNTIL THE DEVICES CONTRIBUTING WATERSHED AREA MEETS ESTABLISHED SITE AND VEGETATION REQUIREMENTS.

PVC UNDERDRAIN IN PIPE TO BE INSTALLED WITH 1/4" WASHED STONE.

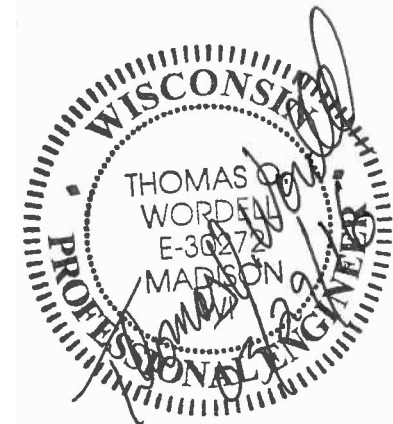
SAND AND ENGINEERED SOIL SHALL BE PLACED WITH SMALL TRACKED EQUIPMENT AND SHALL NOT BE COMPACTED.

IF STORAGE LAYER IS GRAVEL A LAYER OF PEA GRAVEL NOT EXCEEDING 4" IN THICKNESS SHALL BE INSTALLED TO SEPARATE THE ENGINEERED SOIL FROM THE STORAGE LAYER.

INFILTRATION SEED MIX AND DETENTION BASIN SEED MIX REQUIRE A COMPANION COVER CROP OF SEED OATS OR WINTER WHEAT AS SPECIFIED. PERIODIC WATERING IS REQUIRED UNTIL ESTABLISHMENT OF SEEDING HAS OCCURRED.



LANDSCAPE PLAN
NOT TO SCALE



D'ONOFRIO KOTTKE AND ASSOCIATES, INC.
7530 Westward Way, Madison, WI 53717
Phone: 608.833.7530 • Fax: 608.833.1089
YOUR NATURAL RESOURCE FOR LAND DEVELOPMENT

OUTLOT 42 BIORETENTION BASIN DETAILS
GRANDVIEW COMMONS NORTH - PHASE 3



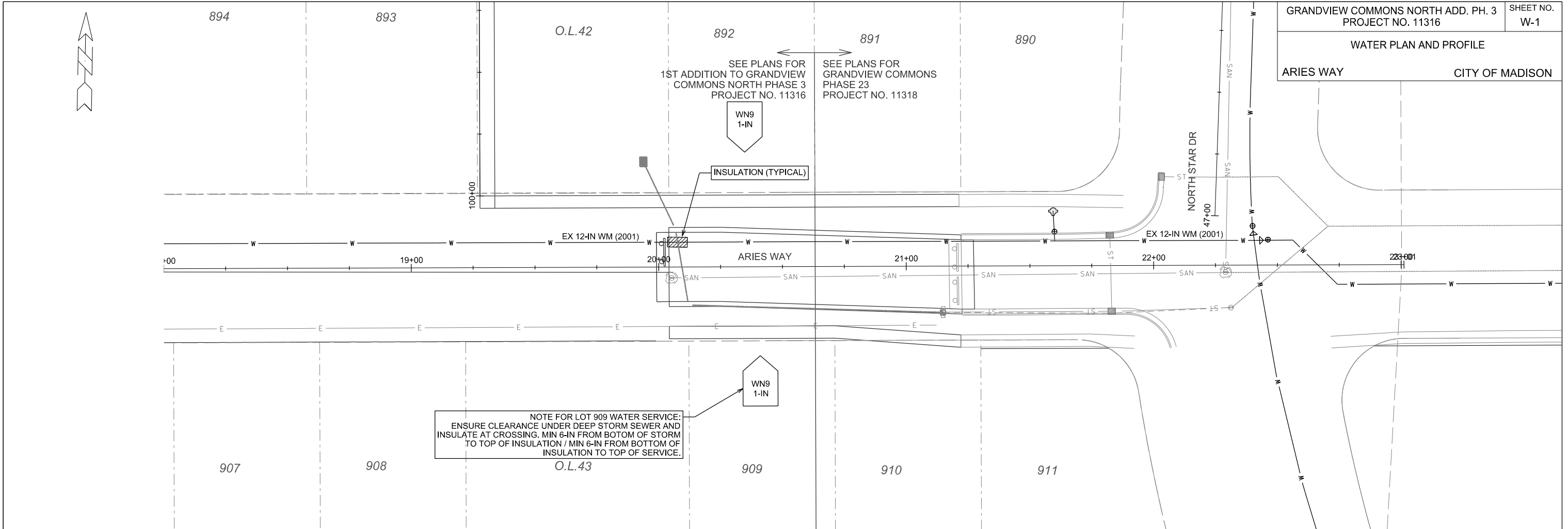
DATE: 03-29-16
REVISED:

DRAWN BY: JMS

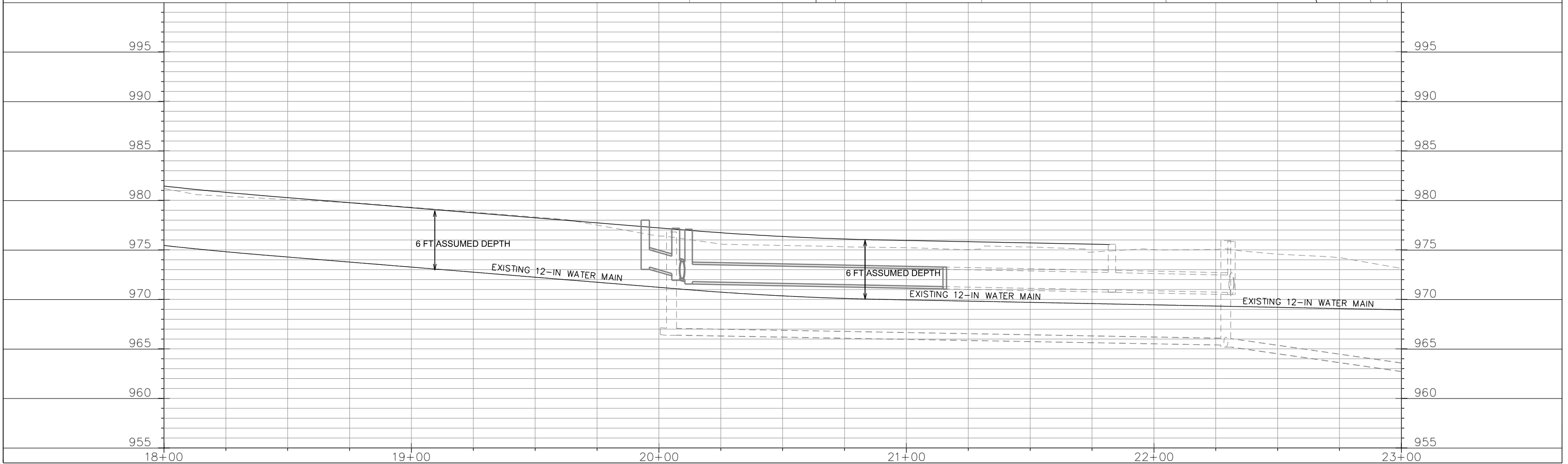
FN: 15-05-161

Sheet Number:

U-6



NOTE FOR LOT 909 WATER SERVICE:
ENSURE CLEARANCE UNDER DEEP STORM SEWER AND
INSULATE AT CROSSING. MIN 6-IN FROM BOTOM OF STORM
TO TOP OF INSULATION / MIN 6-IN FROM BOTTOM OF
INSULATION TO TOP OF SERVICE.



PLOT SCALE: _____

PLOT NAME: _____

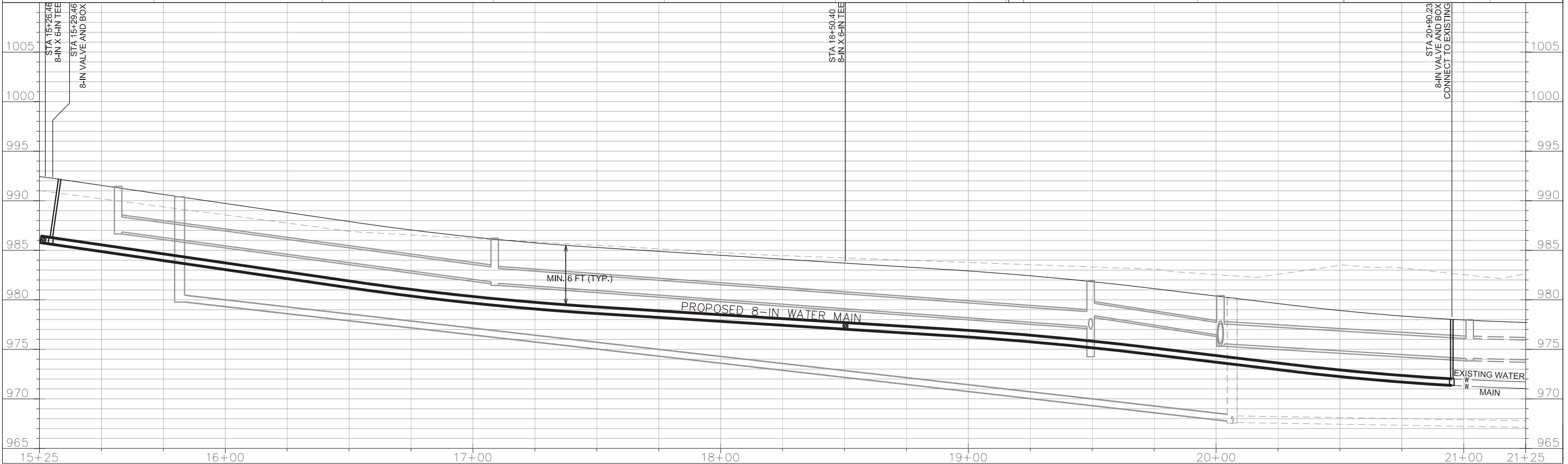
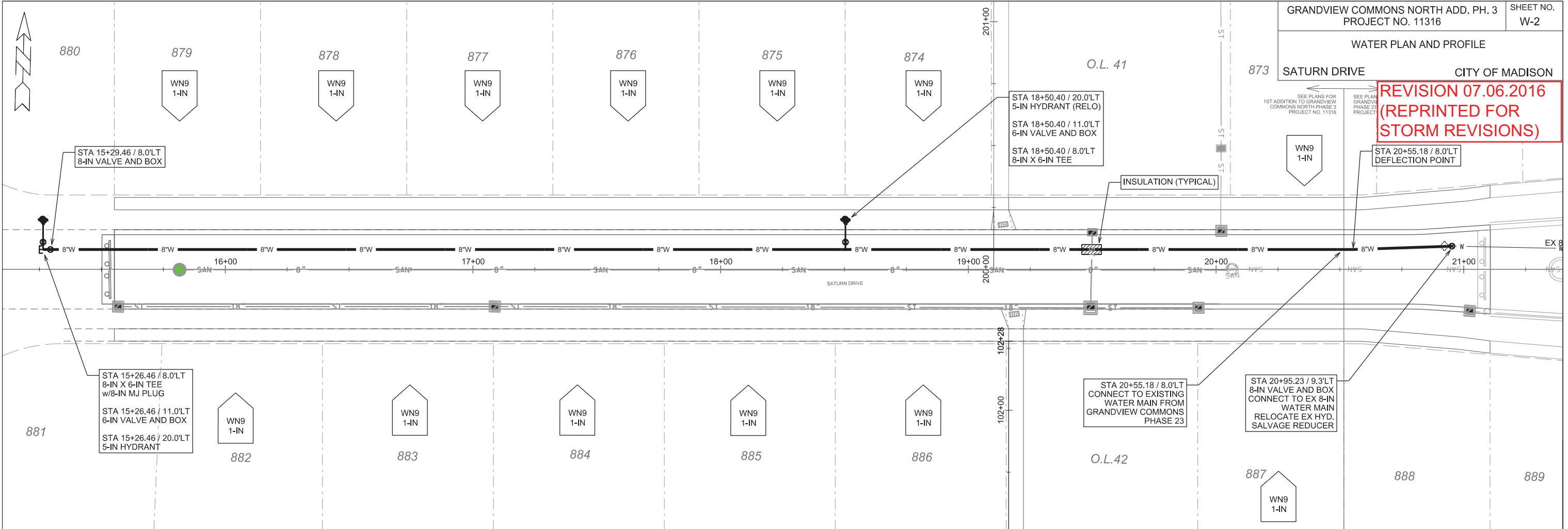
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

WATER PLAN AND PROFILE

SATURN DRIVE CITY OF MADISON

**REVISION 07.06.2016
(REPRINTED FOR
STORM REVISIONS)**



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.
- 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 NOTIFICATION INFORMATION.

ESTIMATE OF MATERIALS SUPPLIED BY CONTRACTOR/SALVAGED*:

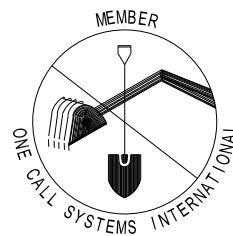
* ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF. COPPER PIPING AND STYROFOAM INSULATION NOT INCLUDED

MATERIALS	
6-IN PIPE (LF)	40
8-IN PIPE (LF)	550
POLY WRAP (LF)	2100
6-IN VALVES & BOXES	2
8-IN VALVES & BOXES	2
8-IN X 6-IN TEES	2
8-IN MJ PLUG	1
5-IN HYDRANTS (INCLUDES RELOCATED)	2
MISC. MATERIALS	
INSULATION (LF)	20
COPPER TUBING (1-IN TO 2-IN)	AS REQ

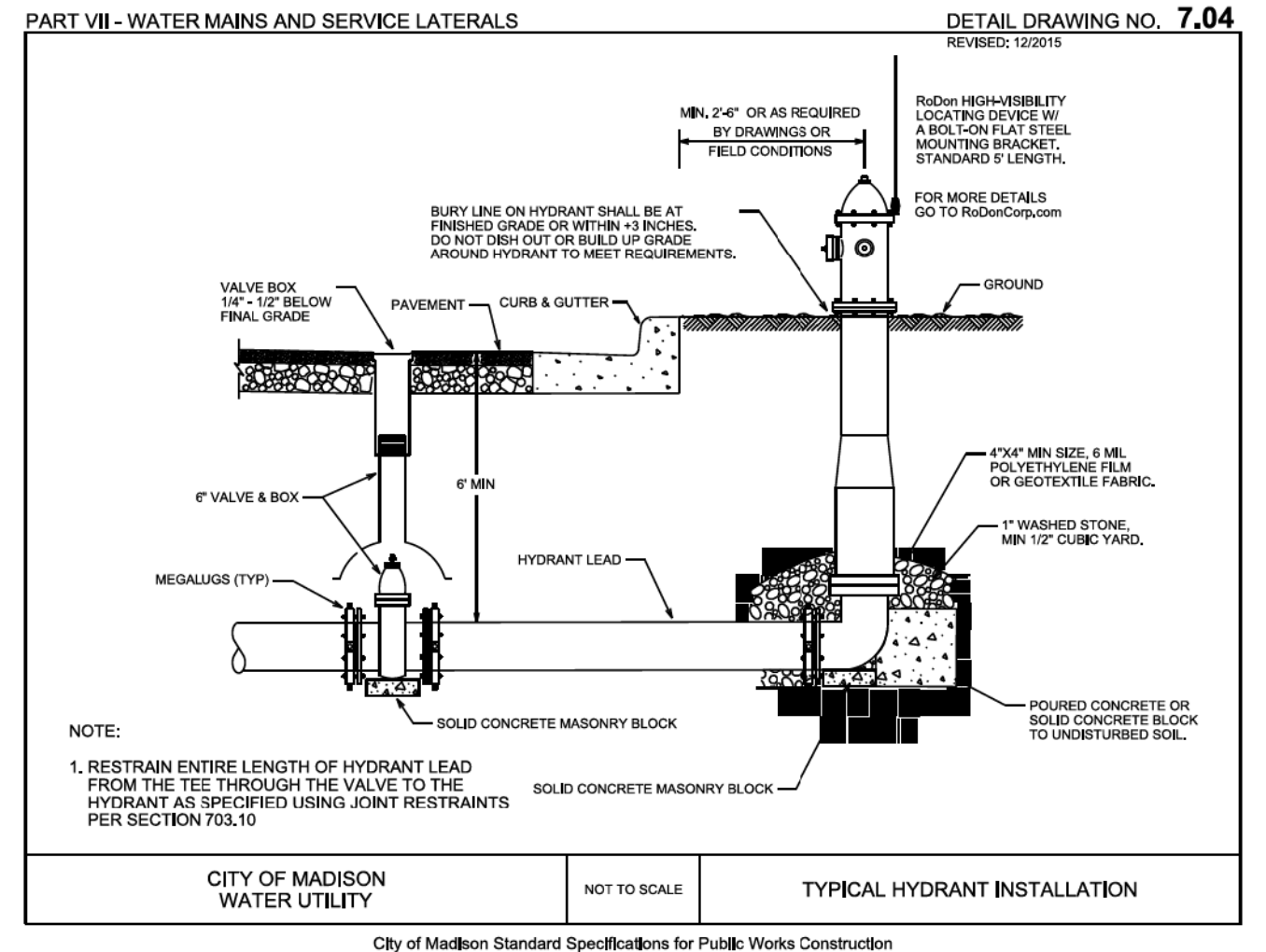
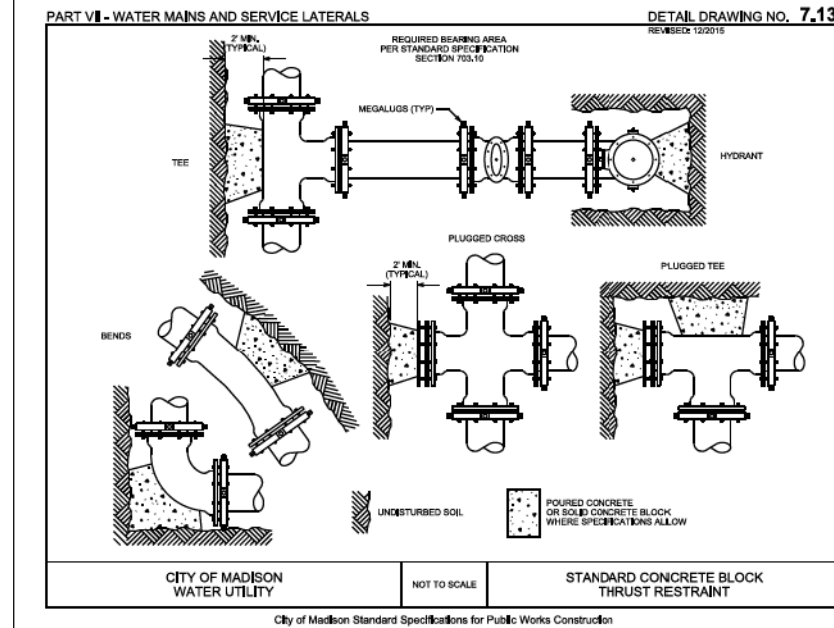
TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

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.



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION