

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

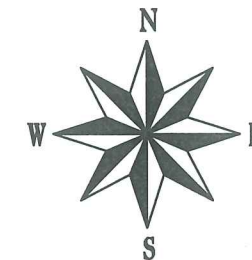
INDEX OF SHEETS

SHEET NO.	TITLE
1	PLAN & PROFILE
P1-P2	SEWER PLAN & PROFILE
U1-U2	SEWER SCHEDULES
U3	WATER PLAN & PROFILE
W1-W2	WATER SYSTEM IMPACT PLAN
W3	WATER ESTIMATE OF MATERIALS
W4	PAVEMENT MARKING
M1-M2	

UTILITY REPLACEMENT WITH RESURFACING ASSESSMENT DISTRICT - 2017 (S. BLOUNT STREET)

CITY PROJECT NO. 11598
7957

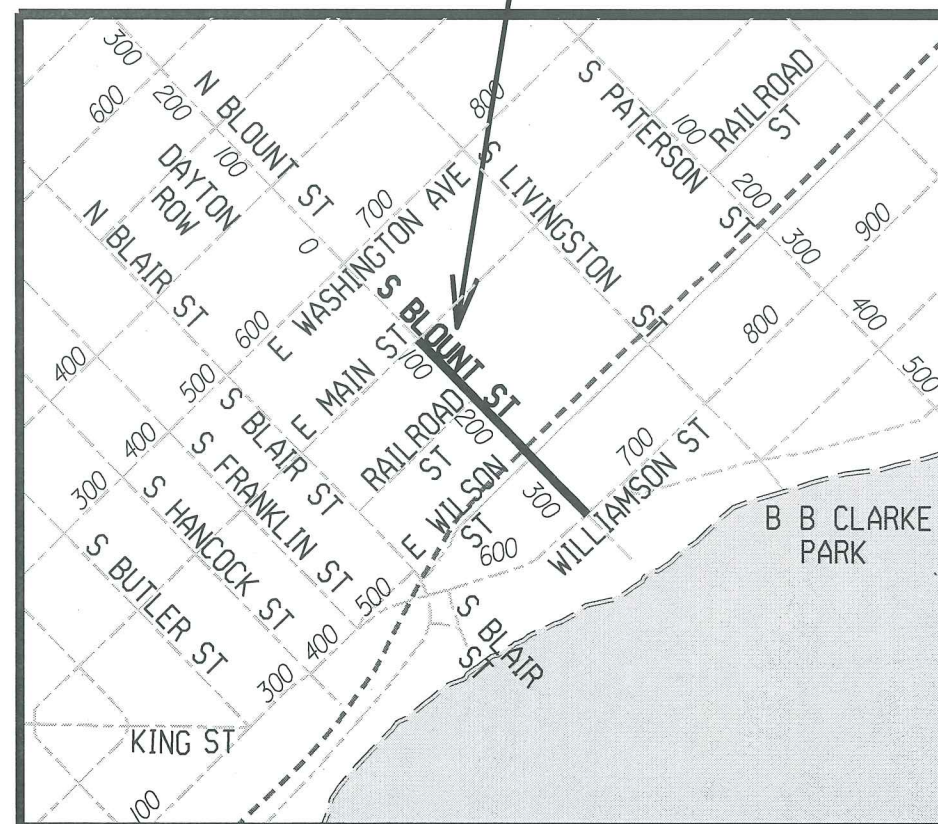
CONSTRUCTION PROJECT LOCATION



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	□

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%.

EARTH WORK SUMMARY:
ESTIMATED UNDISTRIBUTED UNDERCUT..... 180 C.Y.
TOTAL UNCLASSIFIED EXCAVATION CUT..... 180 C.Y.



PUBLIC IMPROVEMENT PROJECT
APPROVED

FEBRUARY 7, 2017

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

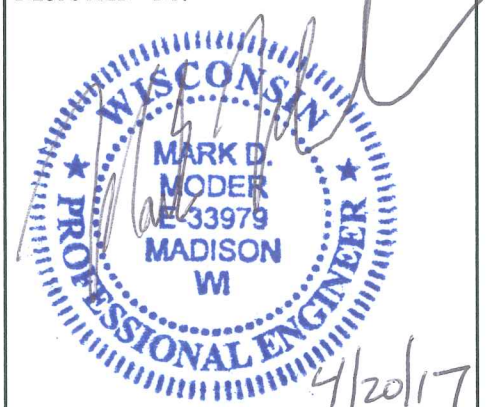
PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

[Signature] 4/21/17
City Engineer Date

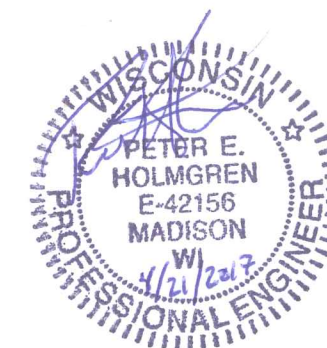
STREET
DESIGNED BY:



SANITARY SEWER
DESIGNED BY:

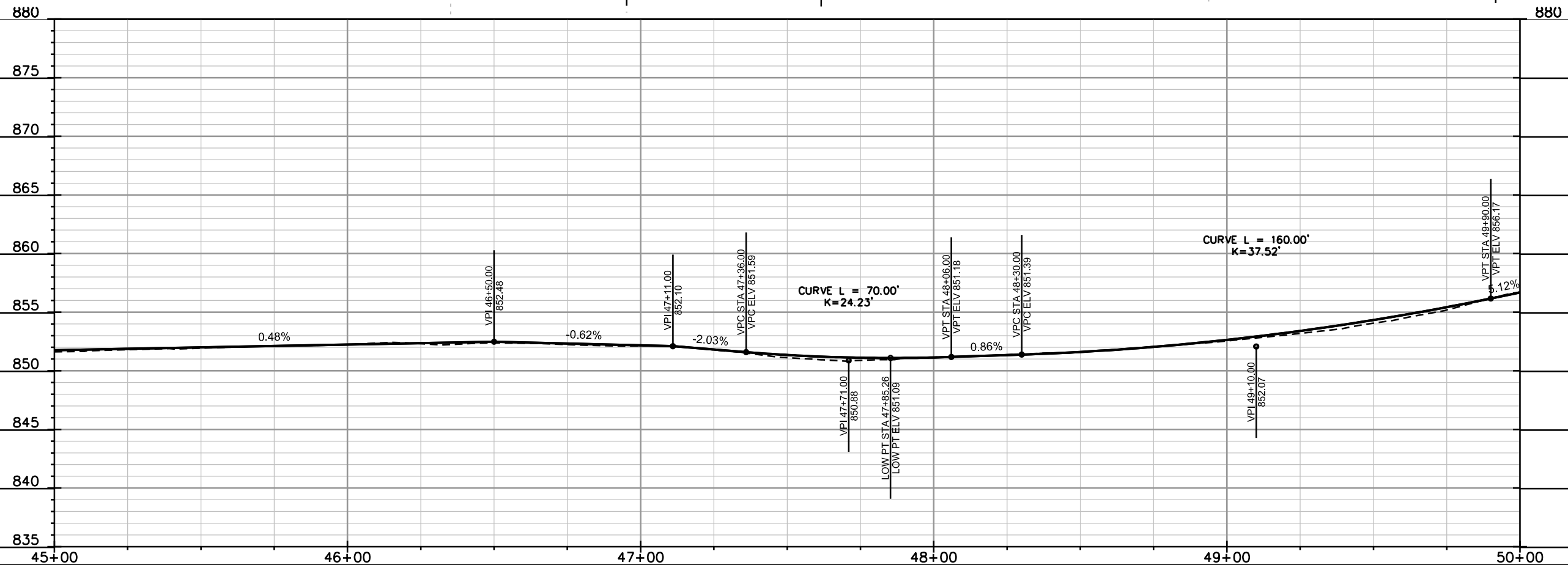


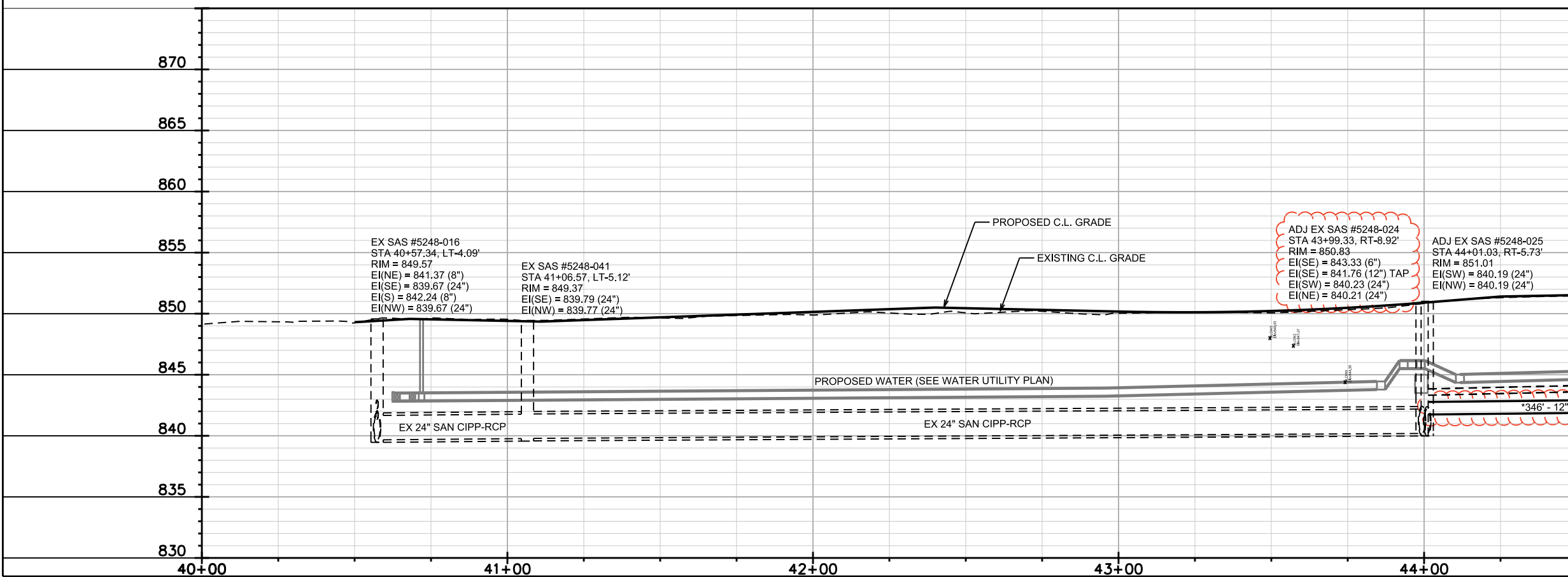
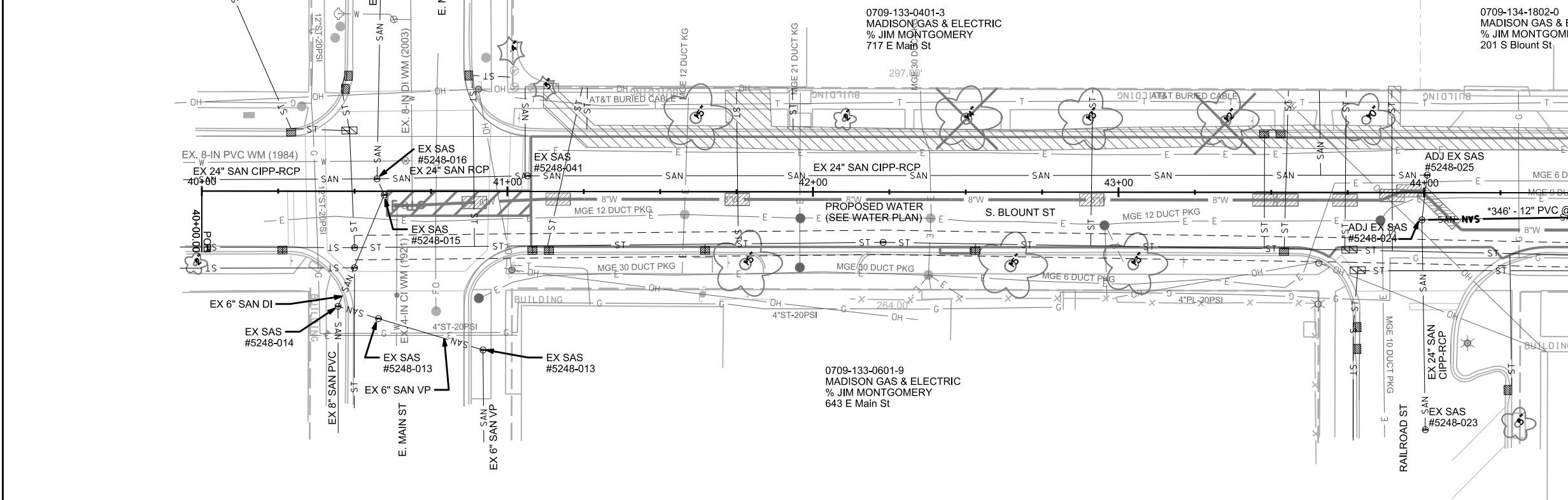
WATER
DESIGNED BY:

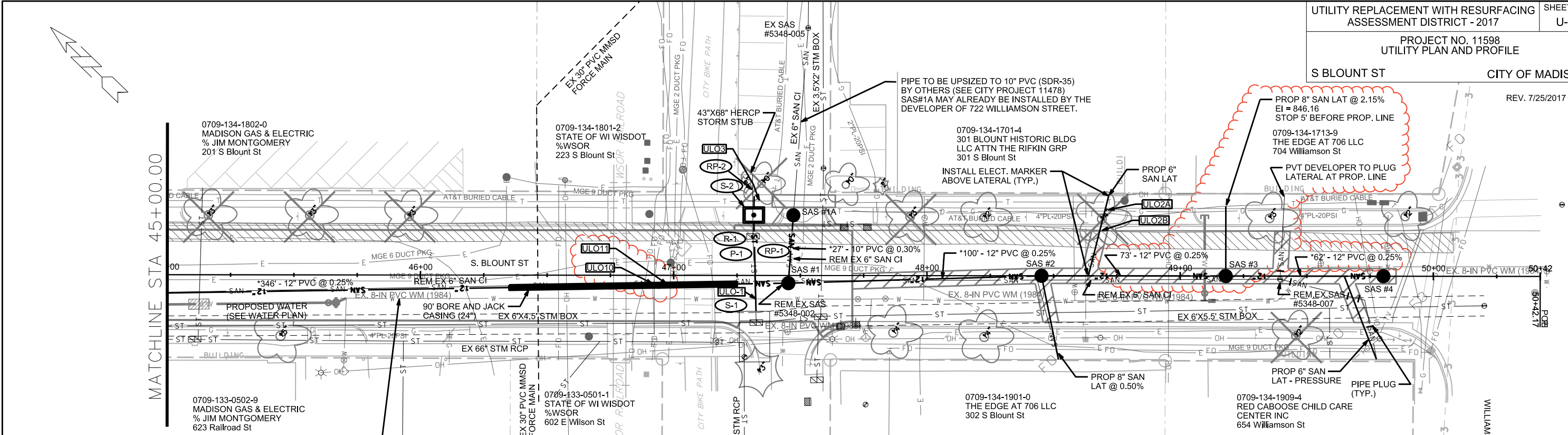


STORM SEWER
DESIGNED BY:









CASING PIPE TO BE SIZED BY THE CONTRACTOR MIN. CASING SIZE 24" DIAMETER

FILL VOIDS W/ BLOWN SAND.

12" SAN

PVC CARRIER PIPE

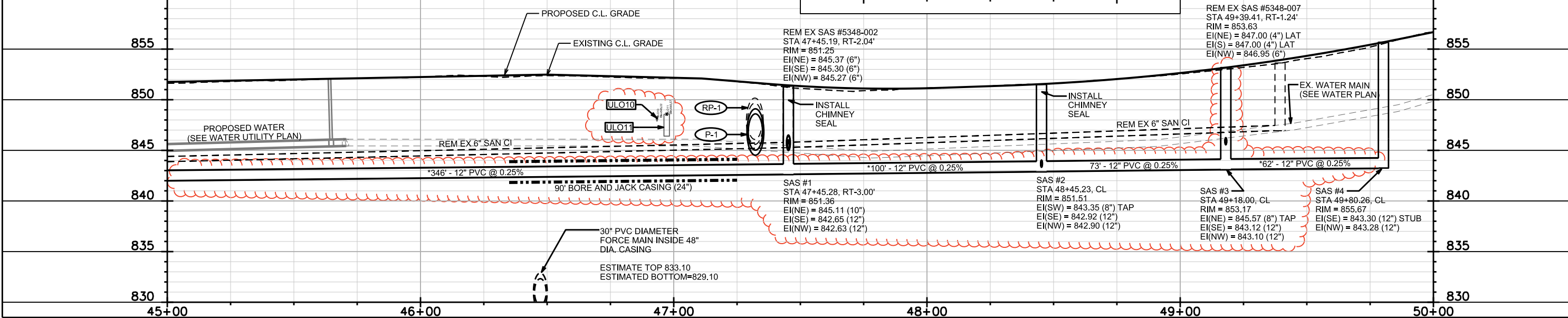
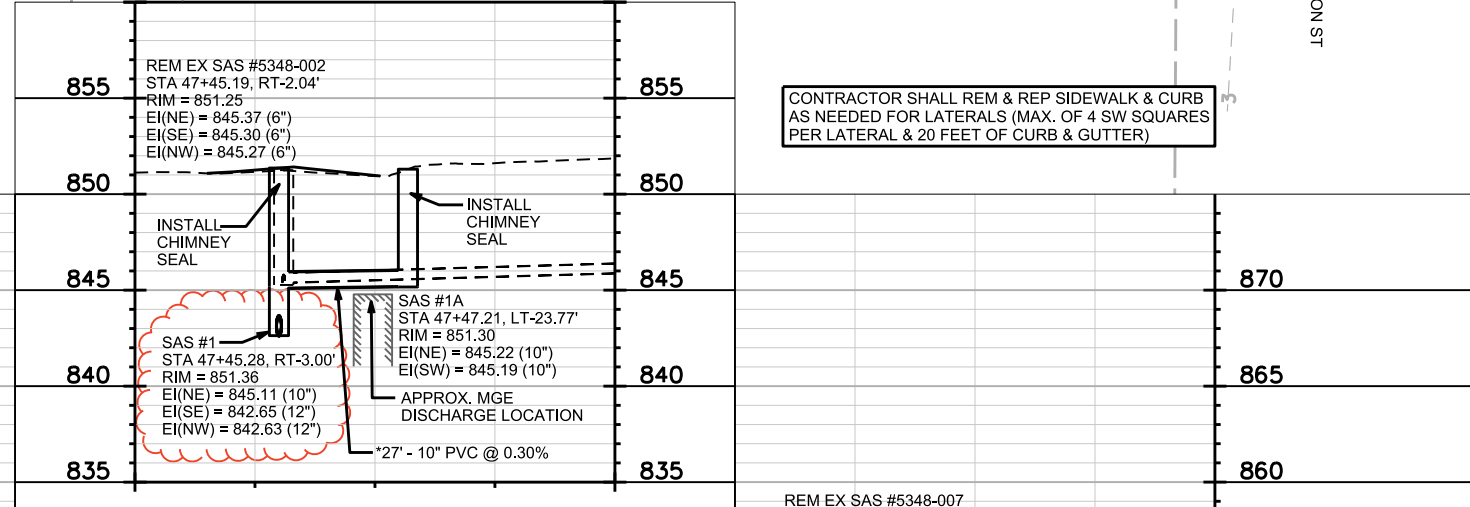
PRE-FABRICATED SPACER OR BLOCKS

NOTE:
WALL THICKNESS FOR STEEL CASING PIPE WITH 35,000 P.S.I. MIN. YIELD STRENGTH. FOR MATERIAL OF LOWER YIELD STRENGTH, INCREASE THICKNESS AN ADDITIONAL 1/16".

STEEL CASING PIPE FOR E80 LOADING	
MIN. THK. (IN.) FOR PIPE NOT CATHODICALLY PROTECTED	CASING PIPE DIAMETER (IN.)
0.3750	18 - 22
0.4375	22 - 25
0.5000	25 - 34
0.5625	34 - 42
0.6250	42 - 48

RAILROAD CASING PIPE DETAIL

NOT TO SCALE



SANITARY & STORM SEWER SCHEDULE

ALIGNMENT CODES: ALL STATIONING FROM BLOUNT STREET REFERENCE LINE
*REV. 7/25/2017 KDF

UTILITY REPLACEMENT WITH RESURFACING ASSESSMENT DISTRICT - 2017	SHEET NO. U-3
PROJECT NO. 11598 SANITARY & STORM SEWER SCHEDULE CITY OF MADISON	

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
* SAS #1	47+45.28	RT-3.00	851.36	842.63	8.73	(4)
SAS #1A	47+47.21	LT-23.77	851.30	845.19	6.11	(4)
* SAS #2	48+45.23	CL	851.51	842.90	8.61	(4)
* SAS #3	49+18.00	CL	853.17	843.10	10.07	-
* SAS #4	49+80.26	CL	855.67	843.28	12.39	-

SANITARY STRUCTURE REMOVALS

STRUCTURE ID NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
SAS #5348-002	47+45.19	RT-2.04	851.25	845.27	5.98	=
SAS #5348-007	49+39.41	RT-1.24	853.63	846.95	6.68	-

SANITARY STRUCTURE ADJUSTMENTS

STRUCTURE ID NO.	STATION	LOCATION (OFFSET)	EX. TOC ELEV.	ADJUST ELEV.	ADJUST DIFF.	NOTES
SAS #5248-025	44+01.03	RT-5.73	851.01	851.01	0.00	-
SAS #5248-024	43+99.33	RT-8.92	850.83	850.83	0.00	-

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
S-1	47+32.50	RT-14.15	TAP	-	845.00	-	-
S-2	47+31.60	LT-23.82	5X7 SAS	851.84	845.05	6.79	[3]

REMOVE STORM STRUCTURES

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
R-1	AS #5348-016	47+31.25	LT-15.50	5X7 SAS	-

SANITARY & STORM SEWER ULOs

ULO NO.	STATION	LOCATION (OFFSET)	TYPE	TOP ELEV.	NOTES
ULO1	47+32.29	RT-9.27	STM WATER Xing		
* ULO2A	48+76.75	LT-25.35	6" PLASTIC GAS	848.27	-
* ULO2B	48+75.70	LT-19.70	TOP MGE WATER	845.75	-

SPECIFIC NOTES

- [1] 90' OF PIPE SHALL BE BORE AND JACK TO CROSS RAILROAD TRACKS. BORE AND JACK SHALL BE
- [2] ABANDON PIPE WITH SLURRY AND ABANDONMENT SHALL BE PAID BY C.Y. UNDER BID ITEM 20335
- [3] EXTEND STORM STUB TO BE PAID UNDER BID ITEM 50424
- [4] INSTALL INTERNAL CHIMNEY SEAL

PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN (PAY) LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
* EX SAS #5248-024	SAS #1	841.76	842.63	346	0.25%	12"	C900	[1]
SAS #1	SAS #1A	845.11	845.19	27	0.30%	10"	C900	-
* SAS #1	SAS #2	842.65	842.90	100	0.25%	12"	C900	-
* SAS #2	SAS #3	842.92	843.10	73	0.25%	12"	SDR-35	-
* SAS #3	SAS #4	843.12	843.28	62	0.25%	12"	C900	-

SANITARY PIPE REMOVALS

REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE TYPE	PIPE SIZE	PAID (Y/N)	NOTES
EX SAS #5248-024	STA 46+35, RT 4.90'	234	CI	6"	N	-
STA 47+25, RT 3.40'	EX SAS #5348-002	18	CI	6"	N	-
EX SAS 5348-002	SAS #1A	27	CI	6"	N	-
EX SAS #5348-002	EX SAS #5348-007	190	CI	6"	N	-
EX SAS #5348-002	EX SAS #5348-007	190	CI	6"	N	-

SANITARY SEWER ABANDONMENTS

FROM (DNSTM)	TO (UPSTM)	LGTH (FT)	PIPE SIZE	TYPE	PAID (Y/N)	NOTES
STA 46+35, RT 4.90'	STA 47+25, RT 3.40'	85.0	6"	CI	Y	[2]

PROPOSED STORM PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
P-1	S-1	S-2	845.00	845.05	42.5	36.40	0.15%	43"X68"	HERCP	-

REMOVE STORM PIPES

REMOVE NO.	REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
RP-1	S-1	R-1	27	43"X68"	HERCP	N	-
RP-2	R-1	STUB END	12	43"X68"	HERCP	Y	-

SANITARY & STORM SEWER ULOs

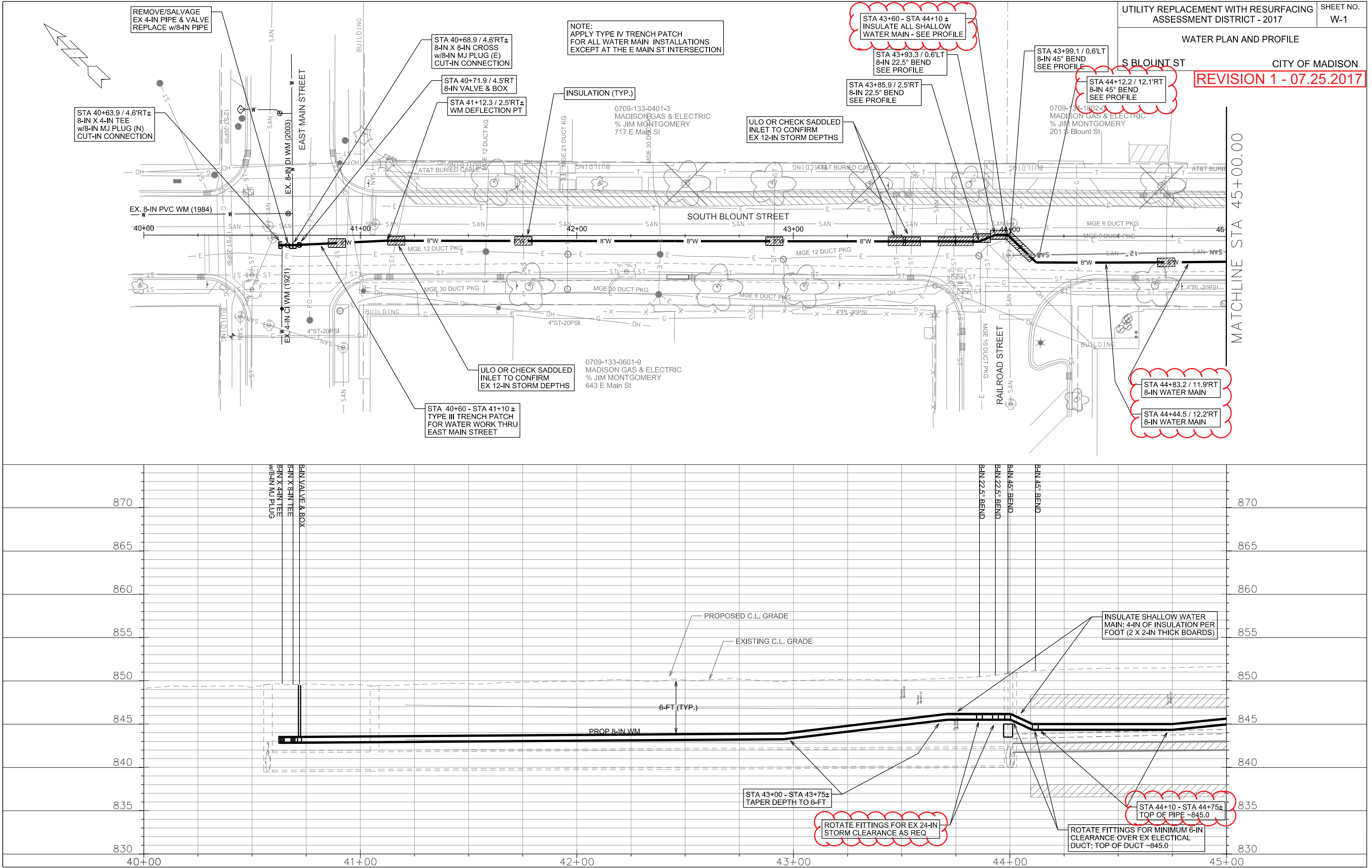
ULO NO.	STATION	LOCATION (OFFSET)	TYPE	TOP ELEV.	NOTES
* ULO3A	47+25.65	LT-28.90	3" PVC FIBER	849.59	OK
* ULO3B	47+25.50	LT-28.80	3" PVC FIBER	849.48	OK
* ULO3C	47+25.80	LT-28.35	3" PVC FIBER	849.57	OK
* ULO3D	47+35.00	LT-29.75	3" PVC FIBER	849.29	OK
* ULO3E	47+35.15	LT-29.85	3" PVC FIBER	849.30	OK
* ULO3F	47+35.15	LT-29.75	3" PVC FIBER	849.26	OK
* ULO10	46+93.40	RT-2.50	4" STEEL FIBER	848.22	OK
* ULO11	46+97.20	RT-3.70	ELEC DUCT	848.57	26" X 26" CONCRETE

PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

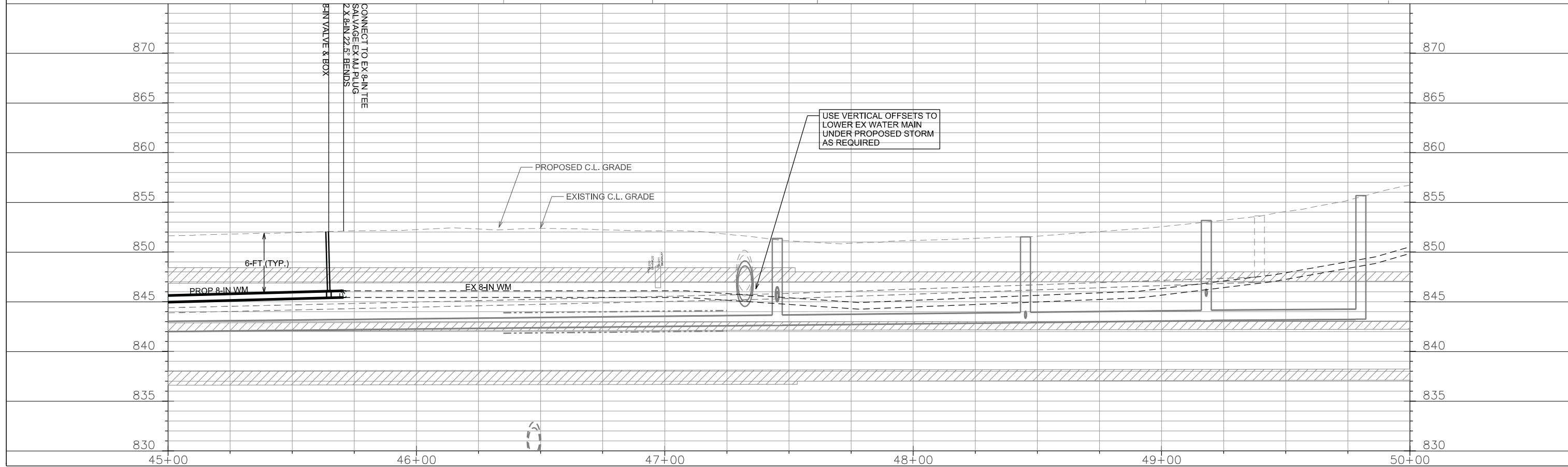
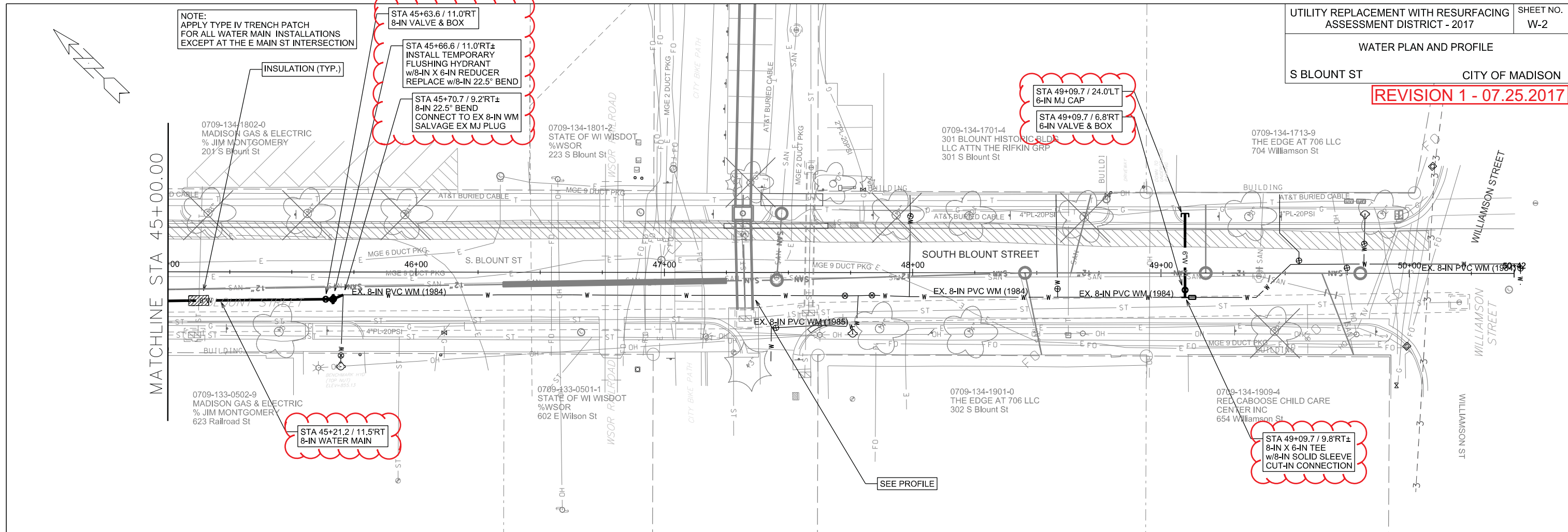
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



PLOT SCALE: _____
PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

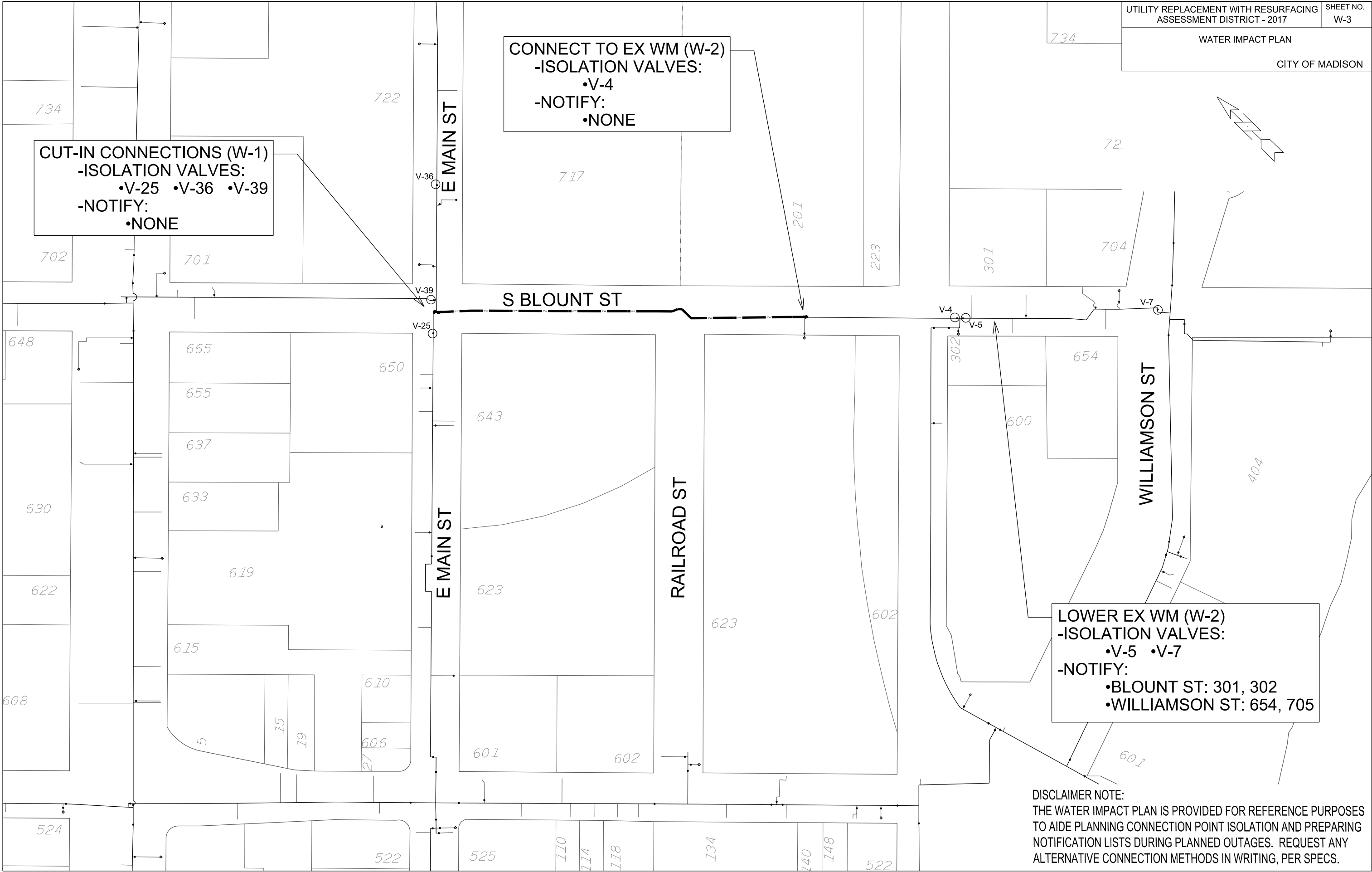


PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



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.

 INDICATES INSULATION AT STORM SEWER CROSSING

- 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

ESTIMATE OF PROJECT MATERIALS:

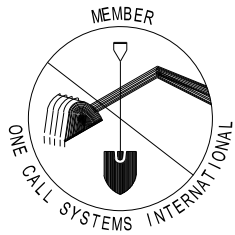
* ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF. ALWAYS REFER TO PLANS.

WATER MAINS	TOTAL
8-IN PIPE (LF)	520
POLY WRAP	600
8-IN VALVES & BOXES	2
8-IN X 4-IN TEES	1
8-IN X 8-IN CROSSES	1
8-IN 45° BENDS	2
8-IN 22.5° BENDS	2
8-IN X 18-IN OFFSETS (AS REQ)	2
8-IN MJ PLUGS	2
5-IN HYDRANTS (TEMP)	2
SALVAGED MATERIALS	TOTAL
8-IN MJ PLUGS	1
5-IN HYDRANTS	1

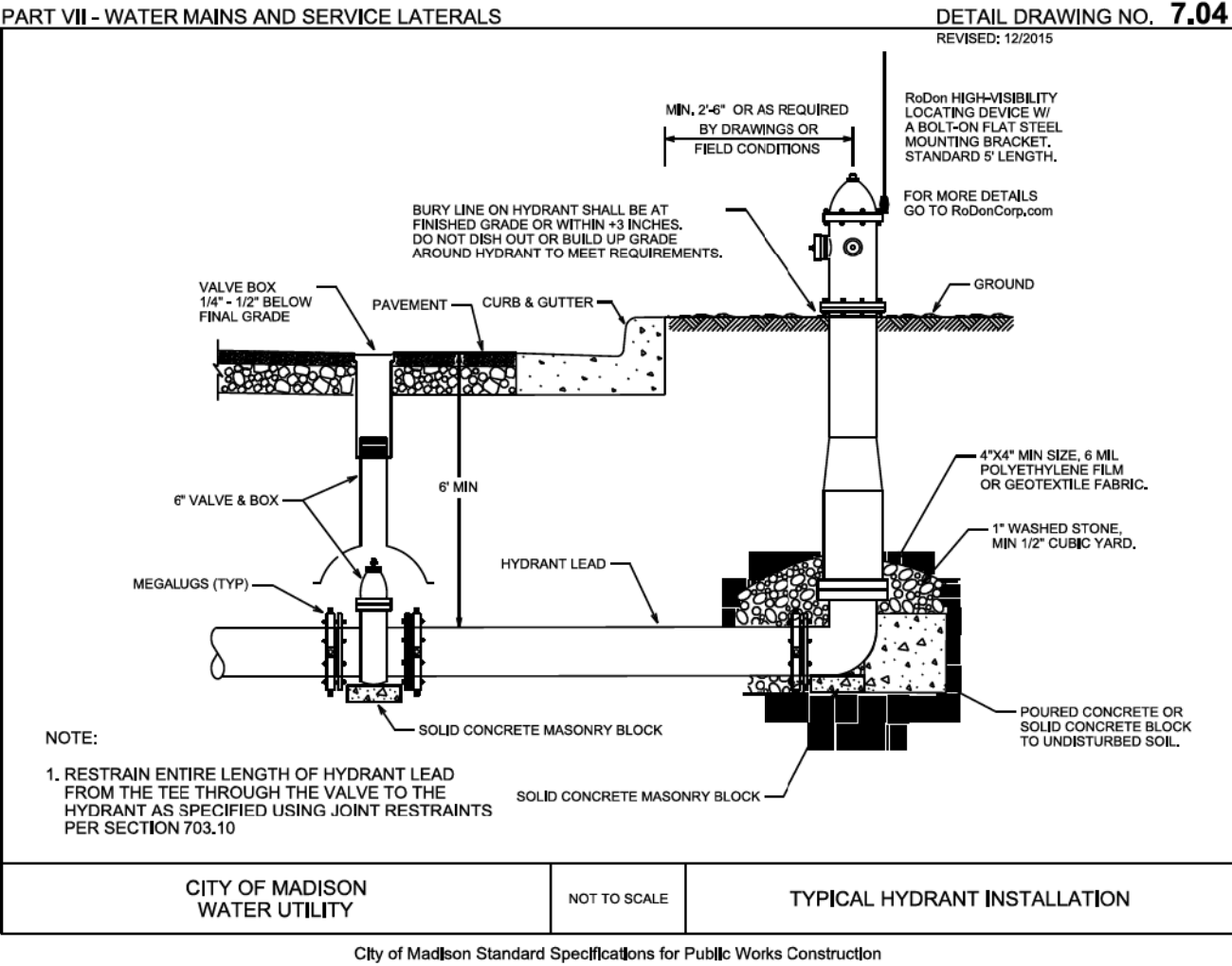
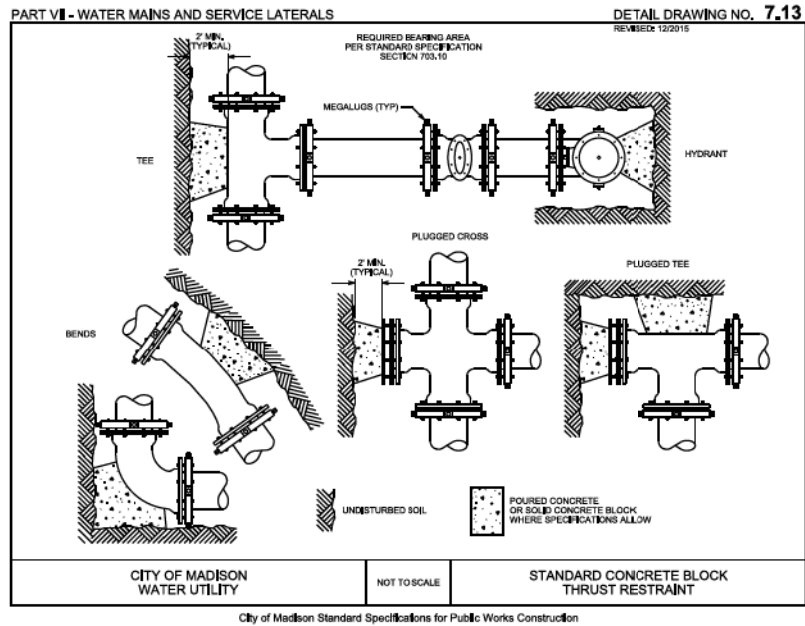
TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

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, TRAFFIC ENG. DIV.



UTILITY REPLACEMENT W/ RESURFACING PROJECT NO. 11434		SHEET NO. M-1
EPOXY PAVEMENT MARKING PLAN		
S BLOUNT ST		CITY OF MADISON

E MAIN ST

6" White Epoxy Crosswalk

24" White Epoxy Stop Bar

6" White Epoxy Skips, 10' Line, 30' Gap

20' | 20'

RAILROAD ST

S BLOUNT ST

6" White Epoxy Crosswalk

24" White Epoxy Stop Bar

MATCHLINE

MATCHLINE

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, TRAFFIC ENG. DIV.

MATCHLINE

MATCHLINE

UTILITY REPLACEMENT W/ RESURFACING
PROJECT NO. 11434

SHEET NO.
M-2

EPOXY PAVEMENT MARKING PLAN

S BLOUNT ST

CITY OF MADISON



6" White Epoxy Skips, 10' Line, 30' Gap

12' Wide Continental Crosswalk
18" Bars, 24" Gaps

S. BLOUNT ST.

WILLIAMSON ST.

S BLOUNT ST

20'

20'

S B

24" White Epoxy Stop Bar

6" White Epoxy Crosswalk

WILLIAMSON ST