Madison, Wisconsin

CITY OF MADISON
CITY ENGINEERING DIVISION
DEPARTMENT OF PUBLIC WORKS
PLAN OF PROPOSED IMPROVEMENT

W. WILSON STREET AND S. BROOM STREET ASSESSMENT DISTRICT - 2021 AND S. HENRY STREET ASSESSMENT DISTRICT - 2023

PUBLIC IMPROVEMENT PROJECT APPROVED

FEBRUARY 28, 2023

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

City Engineer — Date: Mar 30, 2023

INDEX OF SHEETS

SHEET NO.	D1-D5	STREET DETAILS
SHEET NO.	S1-S3	OVERHEAD SIGN DETAILS
SHEET NO.	EC1-EC6	EROSION CONTROL PLANS
SHEET NO.	P1-P7	STREET PLAN & PROFILES
SHEET NO.	U1-U6	SEWERS PLAN & PROFILES
SHEET NO.	U7-U10	SEWERS SCHEDULES
SHEET NO.	W1-W4	WATER PLAN & PROFILES
SHEET NO.	W5-W6	WATER IMPACT & MATERIALS
SHEET NO.	TC1	TRAFFIC CONTROL PLAN
SHEET NO.	R1-R7	MARKING REMOVAL PLANS
SHEET NO.	M1-M10	PAVEMENT MARKING PLANS
SHEET NO.	E1-E10	ELECTRICAL PLANS
SHEET NO.	X1-X19	CROSS SECTIONS
SHEET NO.	MN-1	MAINTENANCE MAP

CONVENTIONAL SIGNS
FIELD VERIFY ALL UTILITY LOCATIONS

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

NOTES:

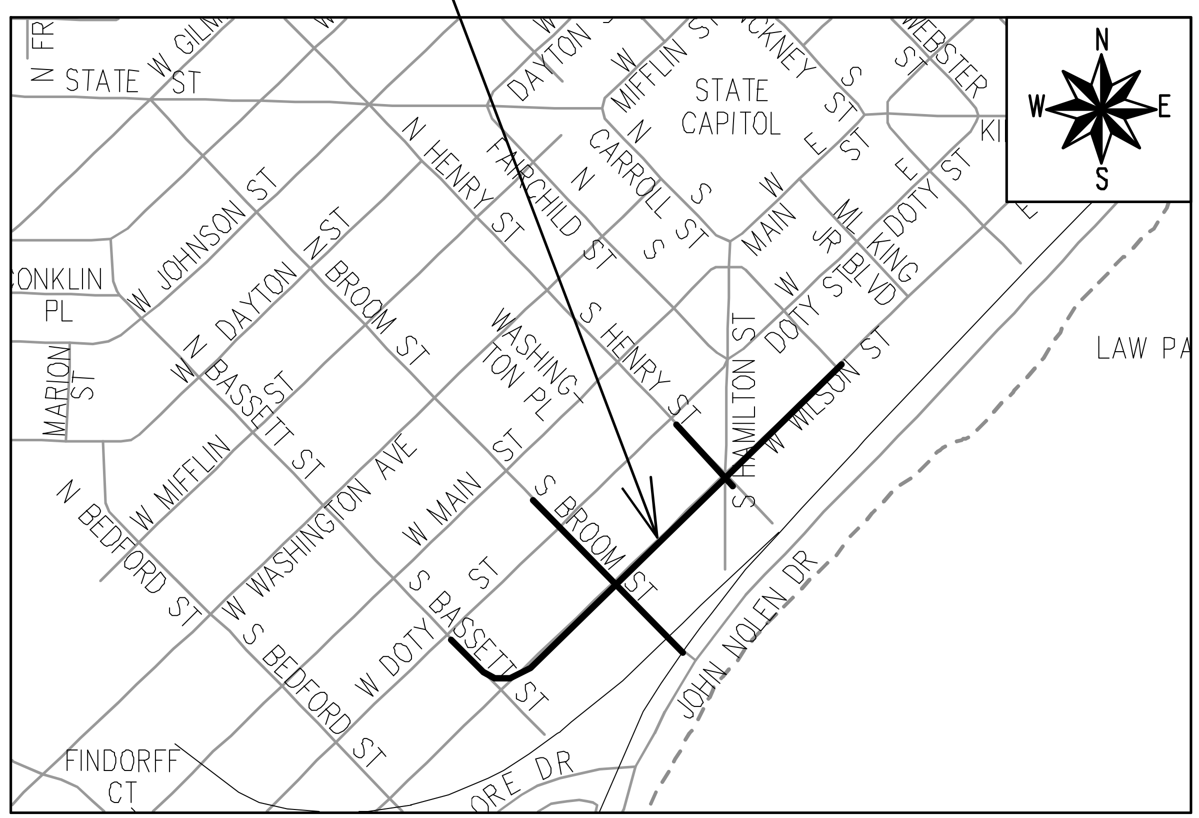
ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADE OF 0.50% TOWARD STORM SEWER INLETS.

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%.

PROJECT LOCATION

CITY PROJECT NO. 11986

CONTRACT NO. 8300



EARTHWORK SUMMARY (GENERAL):

EXCAVATION CUT (MEASURED PLAN QUANTITY)	6,610 CY
ESTIMATED UNDISTRIBUTED UNDERCUT	1,000 CY
TOTAL UNCLASSIFIED EXCAVATION CUT	7,610 CY

MARKINGS & SIGNS DESIGNED BY:
WISCONSIN PROFESSIONAL ENGINEER — THOMAS A. MOHR E-42481 MADISON WI
Mar 30, 2023

STREET DESIGNED BY:
WISCONSIN PROFESSIONAL ENGINEER — JAMES M WOLFE E-42725 MADISON WI
Mar 30, 2023

TRAFFIC SIGNALS & LIGHTING DESIGNED BY:
WISCONSIN PROFESSIONAL ENGINEER — GRETCHEN M AVILES PINEIRO E-47473 MADISON WI
Mar 30, 2023

SANITARY SEWER DESIGNED BY:
WISCONSIN PROFESSIONAL ENGINEER — KYLE D. FRANK E-45653 MADISON WI
Mar 30, 2023

WATER DESIGNED BY:
WISCONSIN PROFESSIONAL ENGINEER — ADAM R. WIEDERHOEFT E-41559 MADISON WI
Apr 3, 2023

STORM SEWER DESIGNED BY:
WISCONSIN PROFESSIONAL ENGINEER — KYLE D. FRANK E-45653 MADISON WI
Mar 30, 2023

PLOT SCALE: 1 IN=1 FT_XREF
PLOT NAME: ---
REV. DATE: 3/30/2023 9:11 AM
ORIGINATOR: CITY_OF_MADISON

STORM SEWER SCHEDULE

*ADDENDUM 4/10/2023 KDF

W. WILSON & S. BROOM RECONSTRUCTION 2021	SHEET NO.
PROJECT NO. 11986	U-8
STORM SEWER SCHEDULE	
CITY OF MADISON	

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
S. BROOM STREET							
S-1	58+89.30	LT-0.38	6X7 SAS	852.26	845.49	6.77	FP, W/R-1550-0054
S-1A	59+01.44	LT-50.06	H INLET	852.32	847.80	4.52	LP, W/R-3067-7004-VB
S-2	58+20.47	LT-2.93	6X7 SAS	852.31	845.94	6.37	FP, W/R-1550-0054
S-2A	58+14.15	LT-22.22	H INLET	852.07	848.20	3.87	LP, W/R-3067-7004-VB
S-2B	58+04.15	LT-21.83	H INLET	852.68	848.55	4.13	W/R-3067-7004-V
S-3	57+19.36	LT-3.27	6X7 SAS	854.45	846.60	7.85	FP, W/R-1550-0054
S-3A	57+19.54	LT-21.50	H INLET	854.54	850.84	3.70	W/R-3067-7004-V
S-4	56+39.59	LT-6.03	6X7 SAS	855.34	847.12	8.22	FP, W/R-1550-0054
S-4A	56+40.83	LT-21.50	H INLET	855.48	851.43	4.05	W/R-3067-7004-V
S-5	55+78.33	LT-10.37	6X7 SAS	855.40	847.52	7.88	FP, W/R-1550-0054
S-5A	55+78.79	LT-31.65	H INLET	855.44	852.88	2.56	FP, LP, W/R-3067-7004-VB
S-6	55+38.76	LT-13.84	6X7 SAS	855.60	847.78	7.82	FP, W/R-1550-0054
S-7	54+56.59	LT-16.84	5X5 SAS	855.32	849.94	5.38	W/R-3067-7004-V
S-7A	54+69.87	RT-22.19	H INLET	855.43	851.73	3.70	W/R-3067-7004-V
S-7B	54+59.89	RT-21.51	H INLET	855.48	852.75	2.73	FP, LP, W/R-3067-7004-VB
S-8	54+46.63	LT-15.91	5X5 SAS	855.37	849.99	5.38	W/R-3067-7004-V
S-9	53+94.74	LT-12.27	5X5 SAS	855.16	850.25	4.91	W/R-3067-7004-V
S-9A	53+92.82	RT-16.94	H INLET	855.43	852.50	2.93	FP, W/R-3067-7004-V
S-10	53+01.53	LT-12.50	5X5 SAS	856.04	850.71	5.33	W/R-3067-7004-V
S-10A	53+01.56	RT-13.50	H INLET	856.31	852.39	3.92	W/R-3067-7004-V
S-11	52+51.38	LT-12.50	5X5 SAS	856.29	850.96	5.33	W/R-3067-7004-V
S-12	52+30.29	LT-27.05	5X5 SAS	856.36	851.09	5.27	W/R-1550-0054
S-13	52+02.94	LT-27.27	5X5 SAS	856.41	851.23	5.18	W/R-1550-0054
S-13A	51+47.05	LT-28.38	3X3 SAS	856.88	853.30	3.58	FP, W/R-3067-7004-V
S-13B	51+46.75	LT-16.65	H INLET	857.96	854.20	3.76	LP, W/R-3067-7004-VB
S-13C	50+56.24	LT-27.69	SADDLED SAS	858.65	855.07	3.58	W/R-3067-7004-V

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
	S. BROOM STREET										
*	P-1	S-1	S-2	845.49	845.94	69	62.9	0.72%	43"X68"	HERCP	**[1], CLASS IV HERCP**
	P-2	S-2	S-3	845.94	846.60	101	95.2	0.69%	43"X68"	HERCP	-
	P-2A	S-2A	S-2B	848.45	848.55	10	7.2	1.39%	12"	RCP	-
	P-2C	S-2A	A-4	848.37	848.61	18.5	15.3	1.57%	15"	RCP	-
	P-3	S-3	S-4	846.60	847.12	80	73.9	0.70%	43"X68"	HERCP	-
	P-4	S-4	S-5	847.12	847.52	62	55.9	0.72%	43"X68"	HERCP	-
	P-5	S-5	S-6	847.52	847.78	40	33.8	0.77%	43"X68"	HERCP	-
	P-6	S-6	S-7	848.91	849.94	82.5	76.8	1.34%	29"X45"	HERCP	-
	P-7	S-7	S-8	849.94	849.99	10	5.0	1.00%	29"X45"	HERCP	-
	P-7A	S-7A	S-7B	852.45	852.75	10	7.0	4.26%	12"	RCP	-
	P-8	S-8	S-9	849.99	850.25	52	47.0	0.55%	29"X45"	HERCP	-
	P-8A	S-5	S-5A	850.05	852.88	21.5	16.8	16.85%	12"	RCP	-
	P-9	S-9	S-10	850.25	850.71	92.5	87.4	0.53%	29"X45"	HERCP	-
	P-10	S-10	S-11	850.71	850.96	50	45.2	0.55%	29"X45"	HERCP	-
	P-10A	S-10	S-10A	852.13	852.39	26	22.5	1.16%	12"	RCP	-
	P-11	S-11	S-12	850.96	851.09	25.5	19.5	0.67%	29"X45"	HERCP	-
	P-12	S-12	S-13	851.09	851.23	27.5	22.4	0.63%	29"X45"	HERCP	-
	P-13A	S-13A	S-13B	854.08	854.20	12	10.2	1.17%	12"	RCP	-

NOTE: PLAN LENGTH (PAY LENGTH) IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. PIPE LENGTH IS ACTUAL LENGTH OF PIPE FROM STRUCTURE WALL TO STRUCTURE WALL. SLOPE CALCULATED USING PIPE LENGTH.

STANDARD NOTES:

-ALL REBAR FOR FIELD POUR STRUCTURES SHALL BE EPOXY COATED. ANY EXPOSED STEEL SHALL BE TOUCHED UP OR RECOATED PRIOR TO USE.
-ALL FIELD POURED SAS STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.3.. ALL PRECAST SAS STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.5.

SPECIFIC NOTES

* **[1] PIPE SHALL BE A CLASS IV HERCP AND SHALL BE PAID FOR UNDER BID ITEM 50424**

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; UD = UNDERDRAIN
- 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 SASs.
- 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, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO KFRANK@CITYOFMADISON.COM.