

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

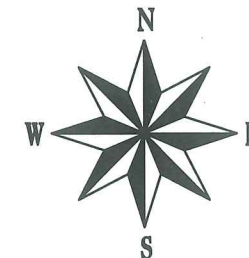
INDEX OF SHEETS

SHEET NO.	TITLE
1	PLAN & PROFILE - N BUTLER & N HAMILTON
P1-P2	SEWER PLAN & PROFILE - N BUTLER & N HAMILTON
U1-U2	SEWER SCHEDULES
U3-4	WATER PLAN & PROFILE - N BUTLER & N HAMILTON
W1-W2	WATER SYSTEM IMPACT PLAN
W3	WATER ESTIMATE OF MATERIALS
W4	PAVEMENT MARKING
M1	

UTILITY REPLACEMENT WITH RESURFACING ASSESSMENT DISTRICT - 2017 (N. BUTLER STREET, N. HAMILTON STREET)

CITY PROJECT NO. 11434
7956

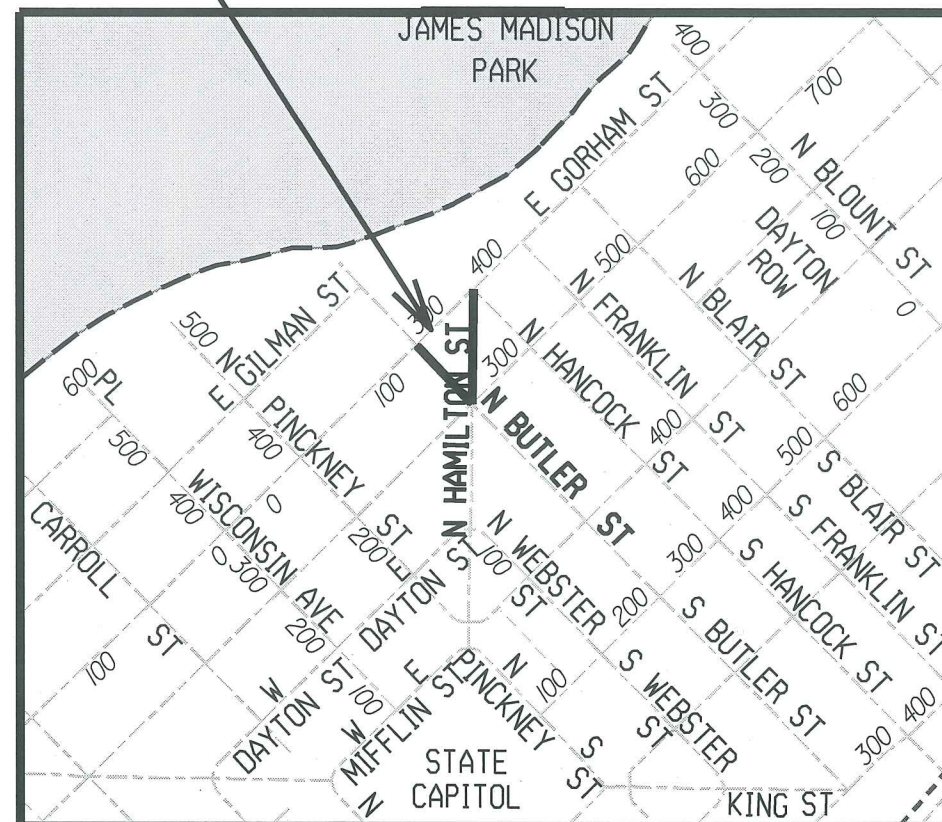
CONSTRUCTION
PROJECT LOCATION



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..... 145 C.Y.
TOTAL UNCLASSIFIED EXCAVATION CUT..... 145 C.Y.



PUBLIC IMPROVEMENT PROJECT
APPROVED

FEBRUARY 7, 2017

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

 4/7/17
City Engineer Date

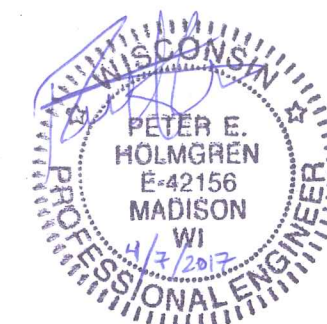
STREET
DESIGNED BY:



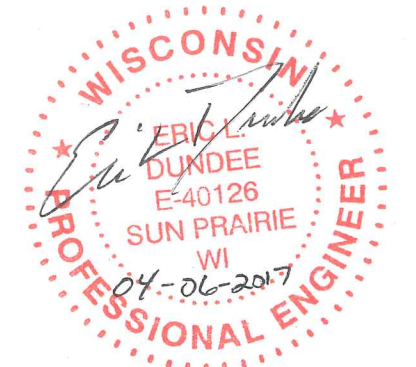
SANITARY SEWER
DESIGNED BY:

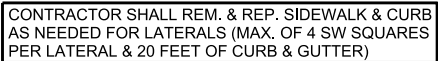


WATER
DESIGNED BY:



STORM SEWER
DESIGNED BY:





SANITARY SEWER SCHEDULE

UTILITY REPLACEMENT WITH RESURFACING ASSESSMENT DISTRICT - 2017	SHEET NO. U-3
PROJECT NO. 11434 SANITARY SEWER SCHEDULE CITY OF MADISON	

PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
N. HAMILTON STREET						
SAS#10	23+91.03	RT-6.34	855.27	850.28	4.99	-
SAS#11	22+00.00	CL	857.54	851.81	5.73	-
SAS#12	20+23.62	LT-6.18	859.56	853.16	6.40	-
N. BUTLER STREET						
SAS #20	11+38.39	RT-8.54	864.75	856.63	8.12	-

SANITARY STRUCTURE REMOVALS

STRUCTURE ID NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
N. HAMILTON STREET						
SAS #5147-007	23+91.03	RT-6.35	855.27	850.28	4.99	-
SAS #5148-032	20+23.62	LT-6.20	859.79	854.14	5.65	-
N. BUTLER STREET						
SAS 5048-011	11+35.07	LT-19.70	864.7	857.69	7.01	-

SANITARY STRUCTURE ABANDONMENTS

STRUCTURE ID NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
N. HAMILTON STREET						
SAS #5147-008	23+83.39	LT-2.00	855.54	850.53	5.01	-

SANITARY SEWER ULOs

ULO NO.	STATION	LOCATION (OFFSET)	TYPE	TOP ELEV.	NOTES
N. HAMILTON STREET					
ULO11	23+69.25	RT-5.50	GAS	-	-

SPECIFIC NOTES

(1) ABANDON PIPE WITH SLURRY AND ABANDONMENT SHALL BE PAID BY C.Y. UNDER BID ITEM 20335

PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN (PAY) LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
N. HAMILTON STREET								
SAS #10	SAS #11	850.38	851.81	191	0.75%	15"	SDR-35	-
SAS #11	SAS #12	851.91	853.16	176.5	0.71%	15"	SDR-35	-
N. BUTLER STREET								
EX SAS #5048-055	SAS #20	855.36	856.63	150	0.85%	8"	SDR-35	-

SANITARY PIPE REMOVALS

REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE TYPE	PIPE SIZE	PAID (Y/N)	NOTES
N. HAMILTON STREET						
SAS #5147-008	SAS #11	191	VP	15"	Y	-
SAS #11	SAS #5148-032	165	VP	15"	N	-

SANITARY SEWER ABANDONMENTS

FROM (DNSTM)	TO (UPSTM)	LGTH (FT)	PIPE SIZE	TYPE	PAID (Y/N)	NOTES
N. HAMILTON STREET						
SAS #5147-007	SAS #5147-008	7.5	15"	VP	Y	(1)
N. BUTLER STREET						
SAS #5048-010	SAS #5048-011	85	6"	VP	Y	(1)

STORM SEWER SCHEDULE

UTILITY REPLACEMENT WITH RESURFAING ASSESSMENT DISTRICT - 2017	SHEET NO. U-4
PROJECT NO. 11434 STORM SEWER SCHEDULE CITY OF MADISON	

PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
N. HAMILTON STREET							
S-20	23+56.53	LT-21.23	STM TAP	-	850.17	-	-
S-21	23+37.75	LT-22.07	3X6 SAS	855.42	850.31	5.11	W/R-3067-7004-V
S-22	22+87.03	LT-12.31	6X6 CATCHBASIN	856.21	850.78	5.43	(3), W/TWIN R-1550-0054
S-23	20+93.38	LT-12.38	5X5 SAS	858.63	854.45	4.18	W/R-1550-0054
S-24	20+36.31	LT-18.58	3X6 SAS	859.39	854.93	4.46	W/R-3067-7004-V
S-25	20+22.07	LT-20.61	CONCRETE COLLAR	-	855.07	-	-
S-25A	20+20.90	LT-16.38	CONCRETE COLLAR	-	855.57	-	-
S-30	23+50.65	RT-22.22	CONCRETE COLLAR	-	851.91	-	-
S-31	23+37.64	RT-23.82	6X6 CATCHBASIN	854.87	852.02	2.85	(1), (3), W/R-3067-7004-V
S-32	21+97.64	RT-20.65	4X4 SAS	856.77	853.23	3.54	(1), W/R-3067-7004-V
S-33	21+72.23	RT-20.60	4X4 SAS	857.06	853.46	3.60	(1), W/R-3067-7004-V
S-34	20+48.82	RT-20.65	4X4 SAS	858.95	854.57	4.38	(1), W/R-3067-7004-V

REMOVE STORM STRUCTURES

STRUC. NO.	ID NO.	STATION	LOCATION (OFFSET)	TYPE	NOTES
N. HAMILTON STREET					
R-20	IN 5047-006	23+37.50	LT-24.50	INLET	-
R-30	AS 5147-046	23+47.00	RT-22.25	SAS	-
R-31	IN 5147-047	23+37.50	RT-24.50	INLET	-
R-32	-	21+97.50	RT-19.50	INLET	-

STORM SEWER ULOS

ULO NO.	STATION	LOCATION (OFFSET)	TYPE	TOP ELEV.	NOTES
N. HAMILTON STREET					
ULO10	23+42.75	LT-21.85	GAS	-	-

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

SPECIFIC NOTES

- (1) RECONNECT EXISTING PIPE(S) TO NEW STRUCTURE
- (2) PIPE PLUGS ARE PAID UNDER BID ITEM 20336 PIPE PLUG
- (3) CONSTRUCT PER S.D.D. 5.7.4. STRUCTURE INCLUDES 3' SUMP BELOW LISTED E.I.

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
N. HAMILTON STREET										
P-20	S-20	S-21	850.17	850.31	19	14	1.00%	30"	TYPE I	-
P-21	S-21	S-22	850.31	850.78	52	46.8	1.00%	30"	TYPE I	-
P-22	S-22	S-23	852.76	854.45	194	188.2	0.90%	24" X 38"	TYPE I	-
P-23	S-23	S-24	854.45	854.93	57.5	53.4	0.90%	24" X 38"	TYPE I	-
P-24	S-24	S-25	854.95	855.07	14.5	12.9	0.93%	21"	TYPE I	-
P-25A	S-24	S-25A	855.43	855.57	15.5	14	1.00%	24"	TYPE I	-
P-30	S-30	S-31	851.91	852.02	13	10.1	1.09%	18"	TYPE I	-

PROPOSED STORM CURED-IN-PLACE PIPE

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	LGTH (FT)	PIPE SIZE	NOTES
N. HAMILTON STREET					
CIP-1	S-31	S-32	137	18"	-
CIP-2	S-32	S-33	25	18"	-
CIP-3	S-33	S-34	125	18"	-
CIP-4	S-34	IN 5148-102	13	18"	-

REMOVE STORM PIPES

REMOVE NO.	REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
N. HAMILTON STREET							
RP-20	S-20	S-21	18	21"	VP	N	-
RP-21	S-20	S-21	18	24"	VP	N	-
RP-21	S-24	S-25	20	21"	VP	N	-
RP-22	S-24	S-25A	80	24"	VP	N	-
RP-30	S-30	S-31	18	18"	VP	N	-

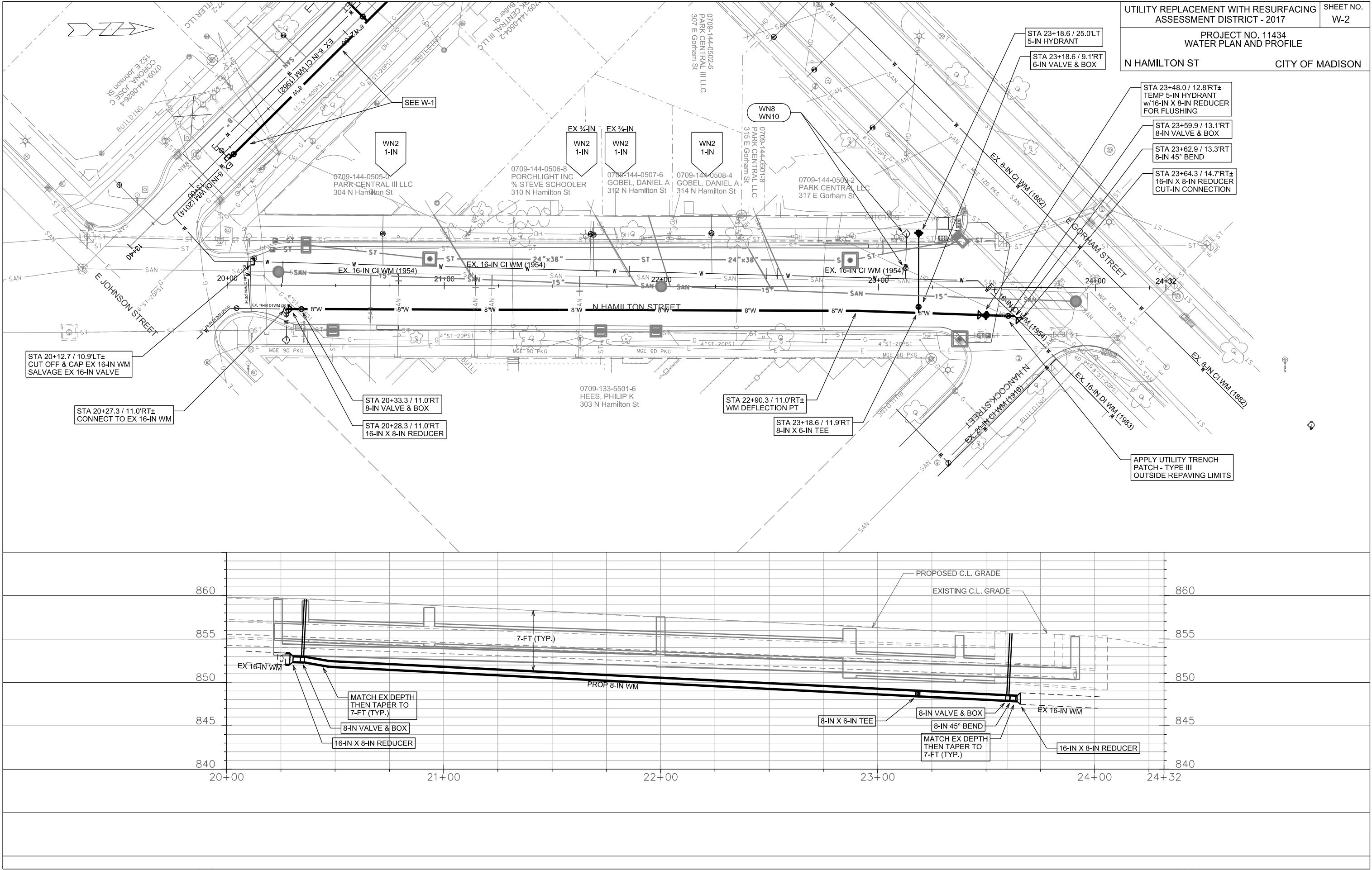
STORM SEWER ABANDONMENTS

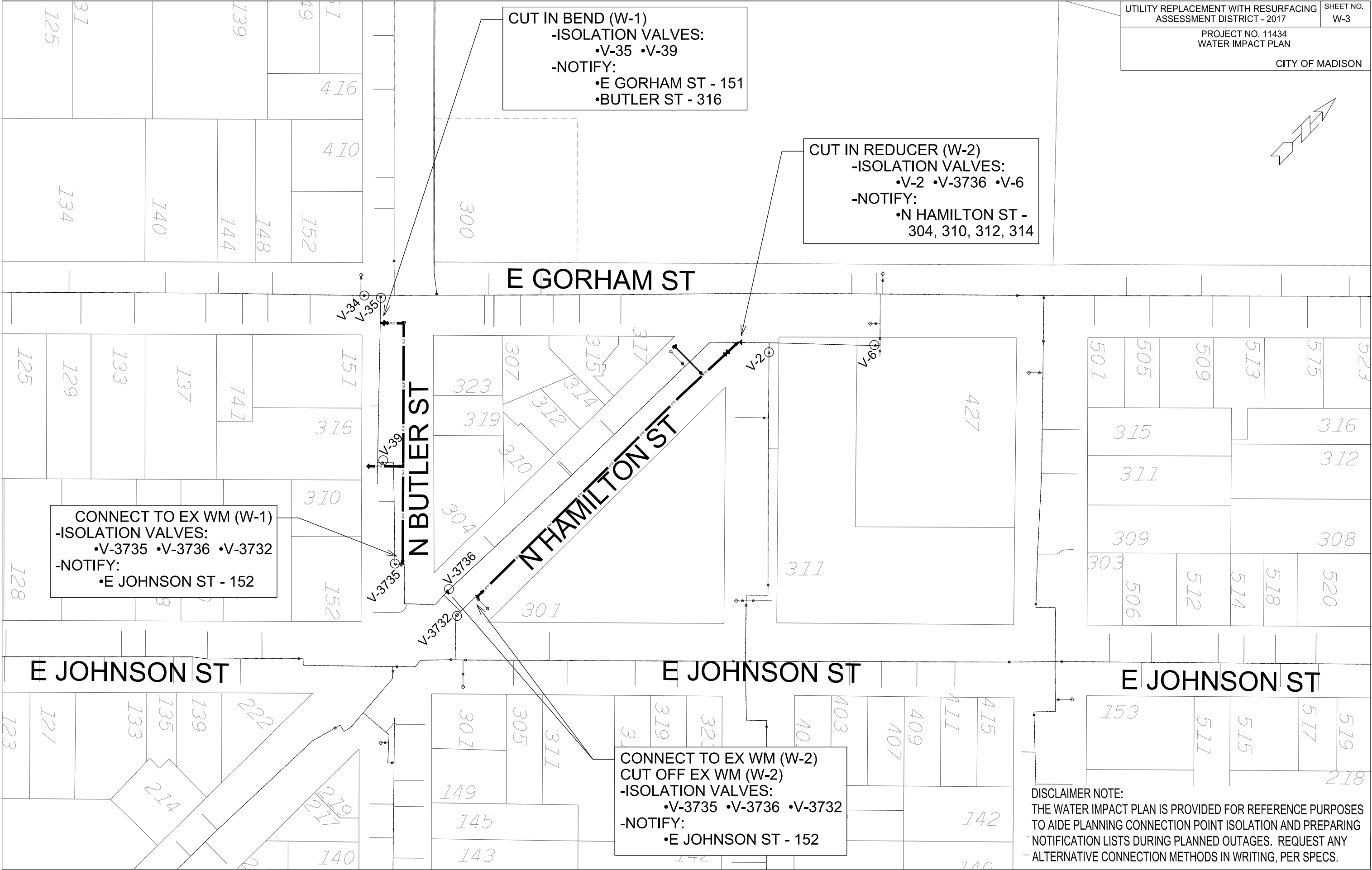
PIPE NO.	FROM (DNSTM)	TO (UPSTM)	LGTH (FT)	PIPE SIZE	TYPE	PAID (Y/N)	NOTES
N. HAMILTON STREET							
AP-20	S-21	S-24	285	21"	VP	Y	(2), TWO PIPE PLUGS
AP-21	S-21	S-23	224	24"	VP	Y	(2), TWO PIPE PLUGS

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 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, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO KFRANK@CITYOFMADISON.COM.







PLOT SCALE:

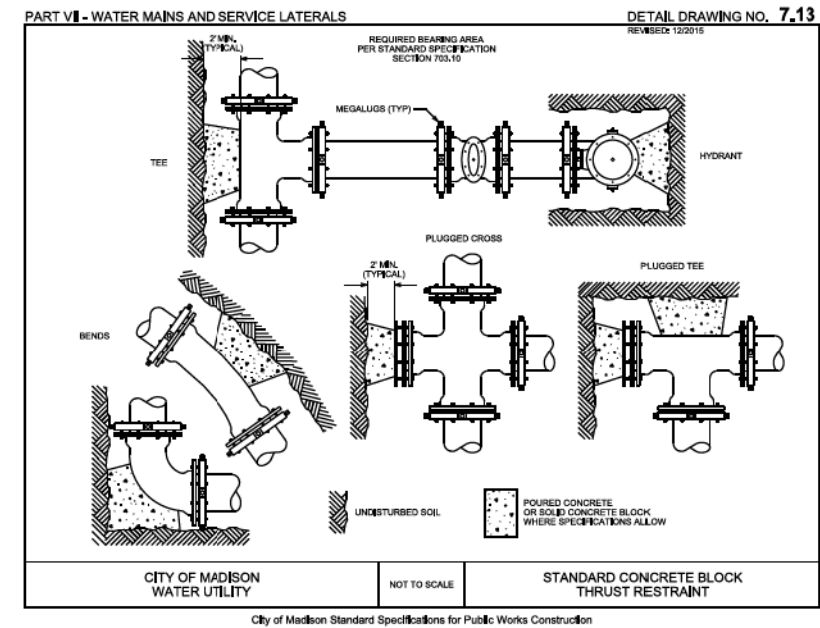
PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

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.

WN5 RELOCATE THE EXISTING FIRE HYDRANT.

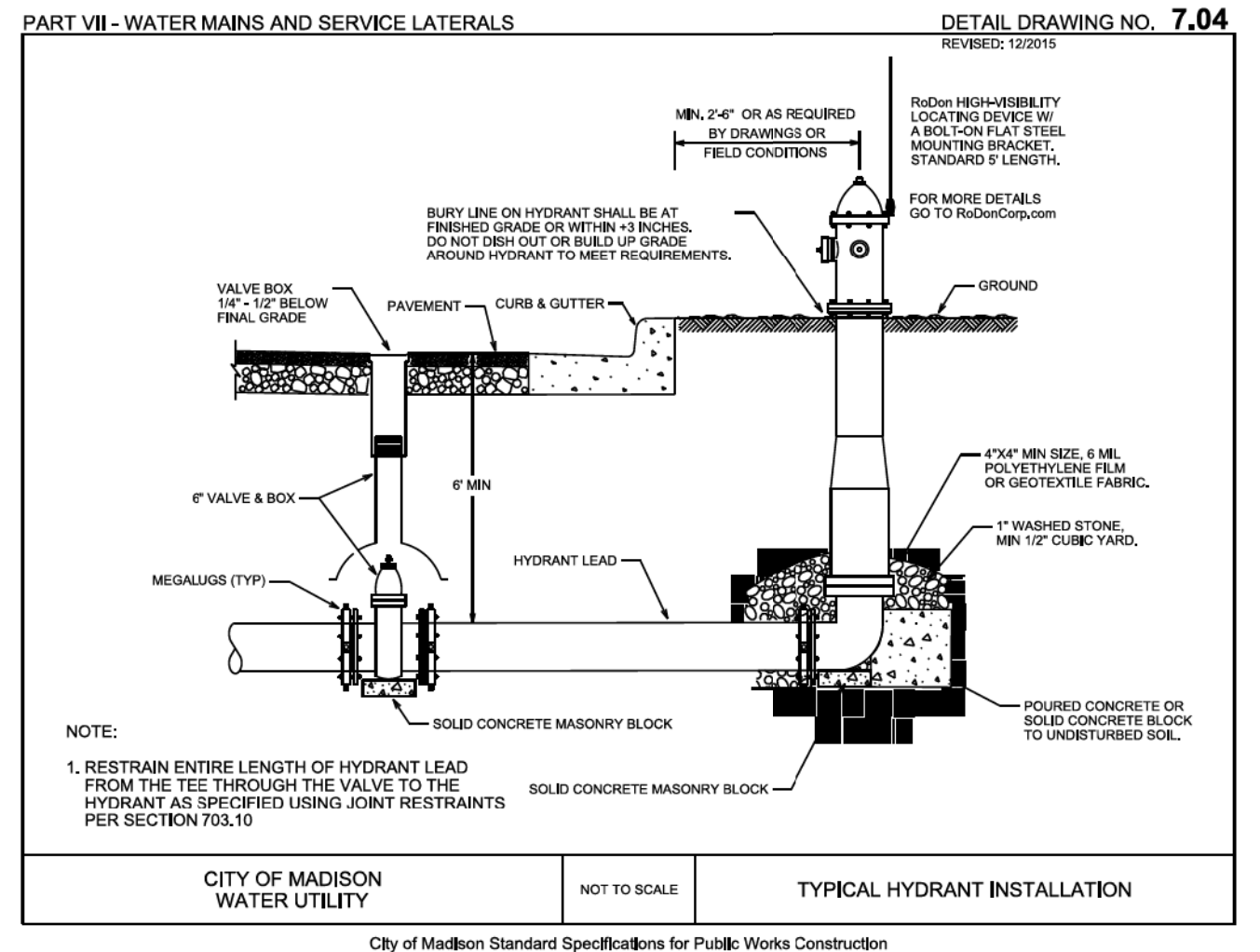


** ESTIMATE OF MATERIALS IS FOR INFORMATION ONLY. ENGINEER DOES NOT GUARANTEE ACCURACY OF MATERIAL TAKE-OFF. ALWAYS REFER TO PLANS.*

WATER MAINS	TOTAL	SERVICE MATERIALS	TOTAL
4-IN PIPE (LF)	40	1-IN COPPER TUBING	AS REQ.
6-IN PIPE (LF)	60		
8-IN PIPE (LF)	560	SALVAGED MATERIALS	TOTAL
16-IN PIPE (LF)	AS REQ.	16-IN VALVES	1
POLY WRAP	750	5-IN HYDRANTS	1
4-IN VALVES & BOXES	1		
6-IN VALVES & BOXES	2		
8-IN VALVES & BOXES	3		
8-IN X 4-IN TEES	1		
8-IN X 6-IN TEES	2		
4-IN X 3-IN REDUCERS	1		
16-IN X 8-IN REDUCERS	2		
8-IN X 6-IN REDUCERS (TEMP)	1		
6-IN 90° BENDS	1		
8-IN 45° BENDS	1		
4-IN MJ CAPS	1		
16-IN MJ PLUGS	1		
8-IN MJ PLUGS	1		
5-IN HYDRANTS	1		
5-IN HYDRANTS (TEMP)	2		

CALL DIGGERS HOTLINE
TOLL FREE
811 OR 1-800-242-8511
FAX-A-LOCATE 1-800-338-3860
(FOR HEARING IMPAIRED) 1-800-542-2289

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		
N BUTLER ST & N HAMILTON ST		CITY OF MADISON

