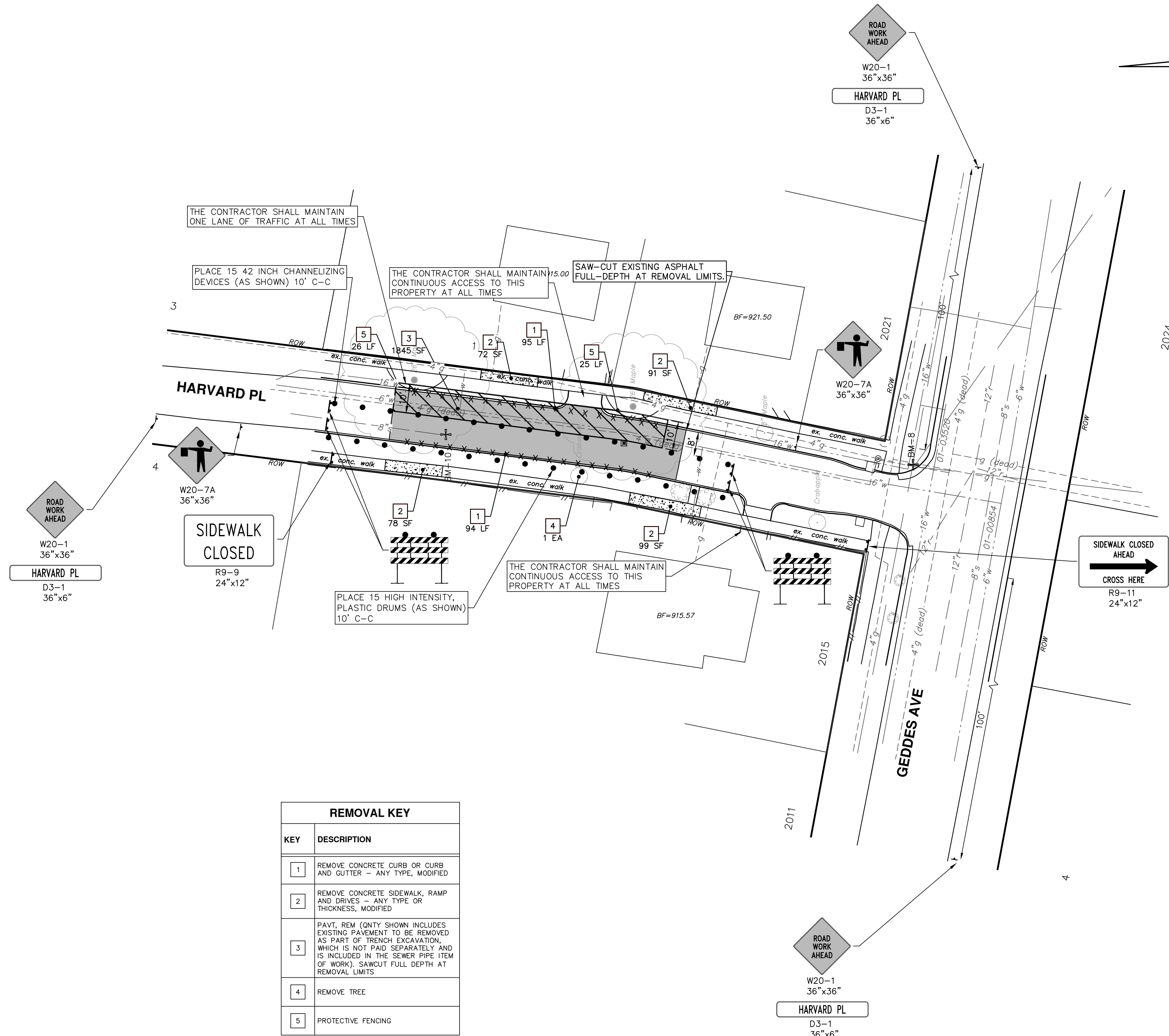
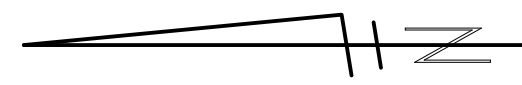


S:\Project Management\Design\2014030 Harvard\Plan Production\Primary\2014030Rem.dwg Dwg Created: 22-Jul-14 - _a2 standard bw.stb - Plot Date: 17-Aug-14



REMOVAL KEY	
KEY	DESCRIPTION
1	REMOVE CONCRETE CURB OR CURB AND GUTTER - ANY TYPE, MODIFIED
2	REMOVE CONCRETE SIDEWALK, RAMP AND DRIVES - ANY TYPE OR THICKNESS, MODIFIED
3	PAVT, REM (QNTY SHOWN INCLUDES EXISTING PAVEMENT TO BE REMOVED AS PART OF TRENCH EXCAVATION, WHICH IS NOT PAID SEPARATELY AND IS INCLUDED IN THE SEWER PIPE ITEM OF WORK). SAWCUT FULL DEPTH AT REMOVAL LIMITS
4	REMOVE TREE
5	PROTECTIVE FENCING



PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 LIBERTY ST., HARVARD PLACE
 AND ARLINGTON BLVD.
 SANITARY SEWER EXTENSIONS
 HARVARD PLACE REMOVALS AND TRAFFIC CONTROL

SCALE PLAN: 1" = 20'
 DRAWING No. 2014030-4

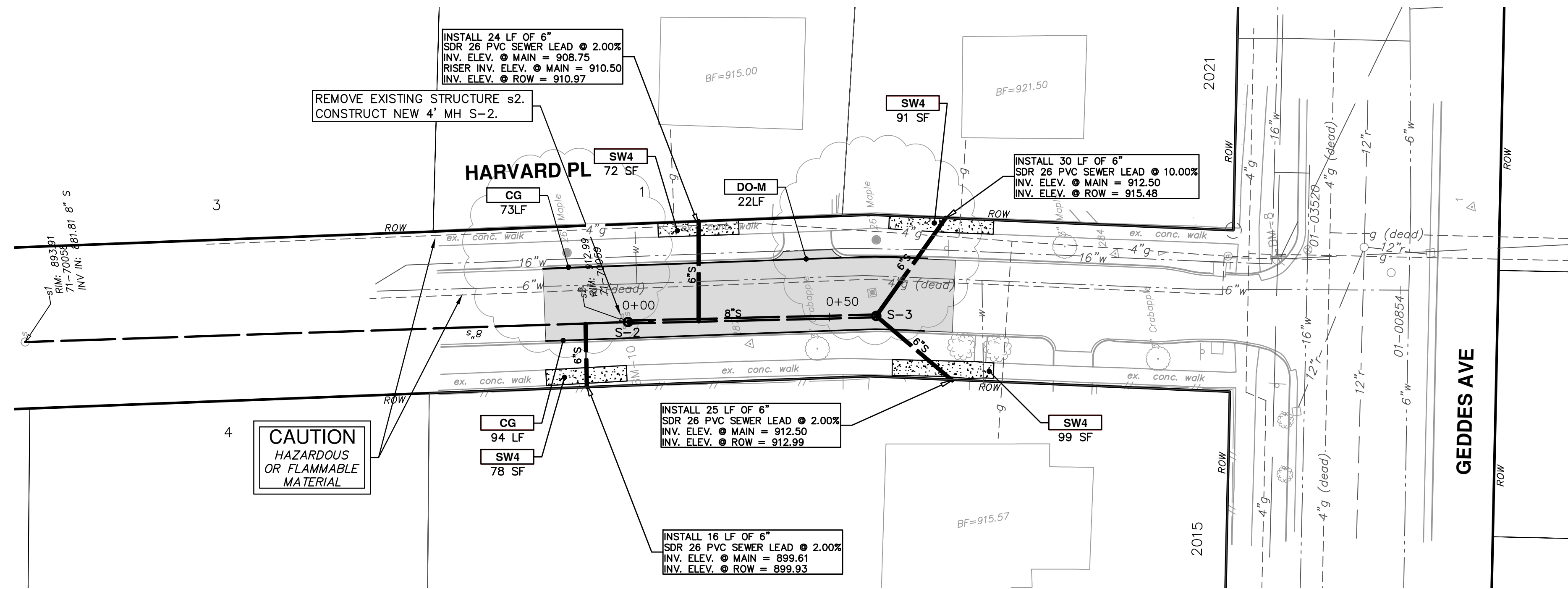
811
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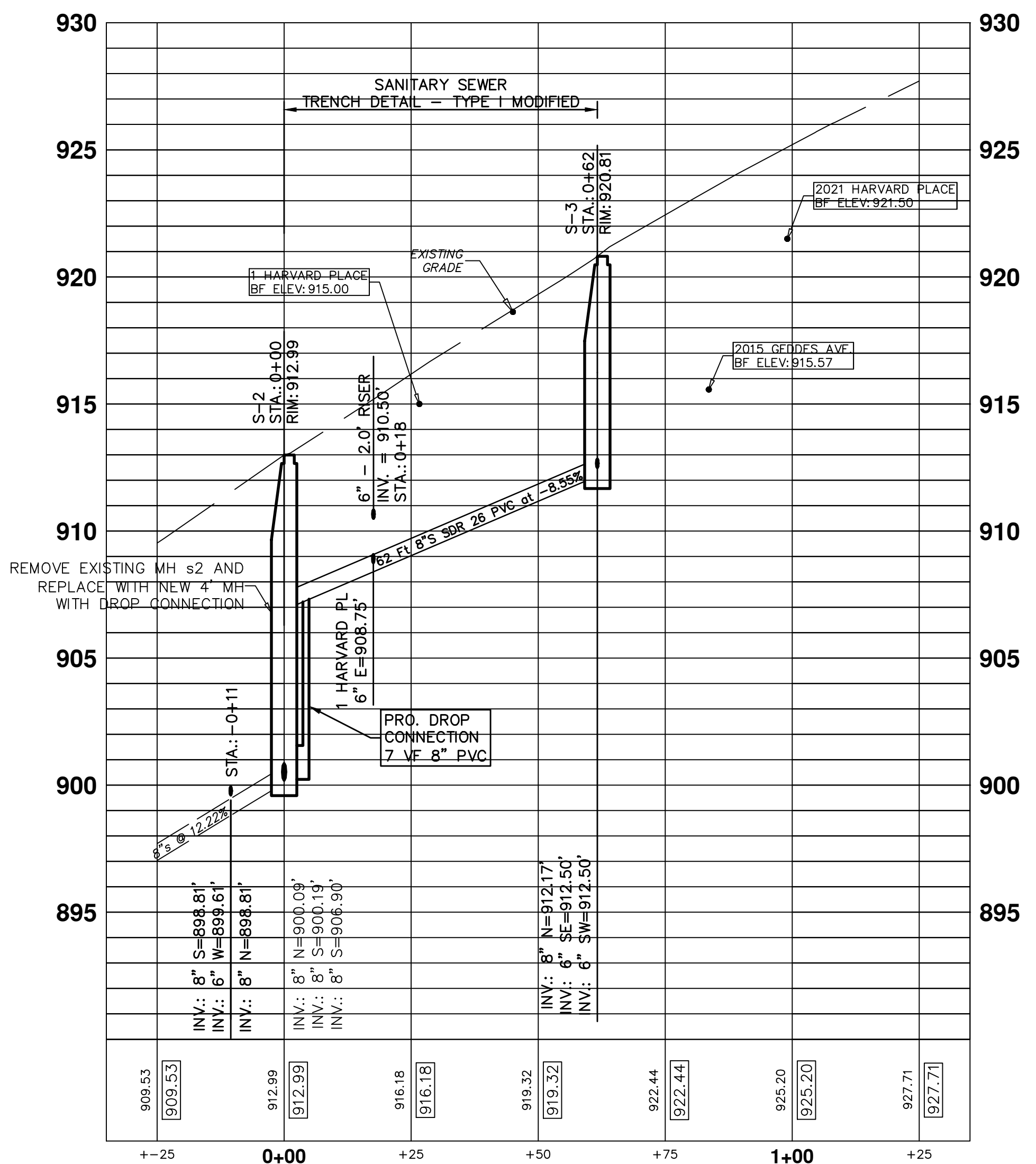
CITY OF ANN ARBOR
 MI CHITERS

REV.	DATE	DESCRIPTION
01	08-18-14	ADDITION 1
DD		CHECKED
DD		DRAWN

SHEET No. **4 OF 11**



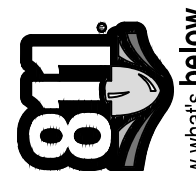
CONSTRUCTION KEY	
KEY	DESCRIPTION
CG	PLACE CONCRETE CURB & GUTTER ANX TYPE (SEE TYPICAL CROSS SECTION)
DO-M	PLACE CONCRETE TYPE DRIVE OPENING, HIGH EARLY
SW4	PLACE 4" CONC. SIDEWALK, MODIFIED
DC6	PLACE 6" CONCRETE DRIVE APPROACH, HIGH EARLY



SANITARY SEWER STRUCTURE TABLE							
STRUCTURE	STATION	RIM	DEPTH	DIA.	TYPE	INVERTS	NOTES
S-2	0+00	912.99	12.90	48"	4' MH	8" N 900.09 8" S 900.19 8" S 906.90	REMOVE EXISTING MH S2 AND REPLACE WITH NEW 4' MH WITH DROP CONNECTION
S-3	0+61.63	920.81	8.64	48"	4' MH	8" N 912.17 6" SE 912.50 6" SW 912.50	4' MANHOLE


SANITARY SEWER LEAD SCHEDULE									
STATION	ADDRESS	FITTING	RISER LENGTH (FT)	SIZE	INVERT @ MAIN	RISER INVERT	LEAD INVERT @ ROW	SLOPE	LEAD LENGTH (FT)
-0+11	VACANT	WYE		6"	899.61		899.93	2.0%	16
0+18	1 HARVARD PLACE	TEE	1.75	6"	908.75	910.50	911.00	2.0%	24
0+62	2015 GEDDES AVE	MH		6"	912.50		912.99	2.0%	25
0+62	2021 GEDDES AVE	MH		6"	912.50		915.48	10.0%	30

HARVARD PLACE BENCHMARKS		
BM #	ELEV	DESCRIPTION
8	931.829	SET RR SPIKE IN E. SIDE OF PP @ NE CORNER OF GEDDES & HARVARD
9	920.623	TOP OF PIPE IN MON. BOX ALONG CL OF HARVARD. BOX IS 125' ± N. OF CL OF GEDDES.
10	912.884	NORTH RIM ON SAN. MH ON HARVARD. (1ST MH N. OF MON BOX)



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REV.	DATE	DESCRIPTION
01	08-18-14	ADDENDUM 1



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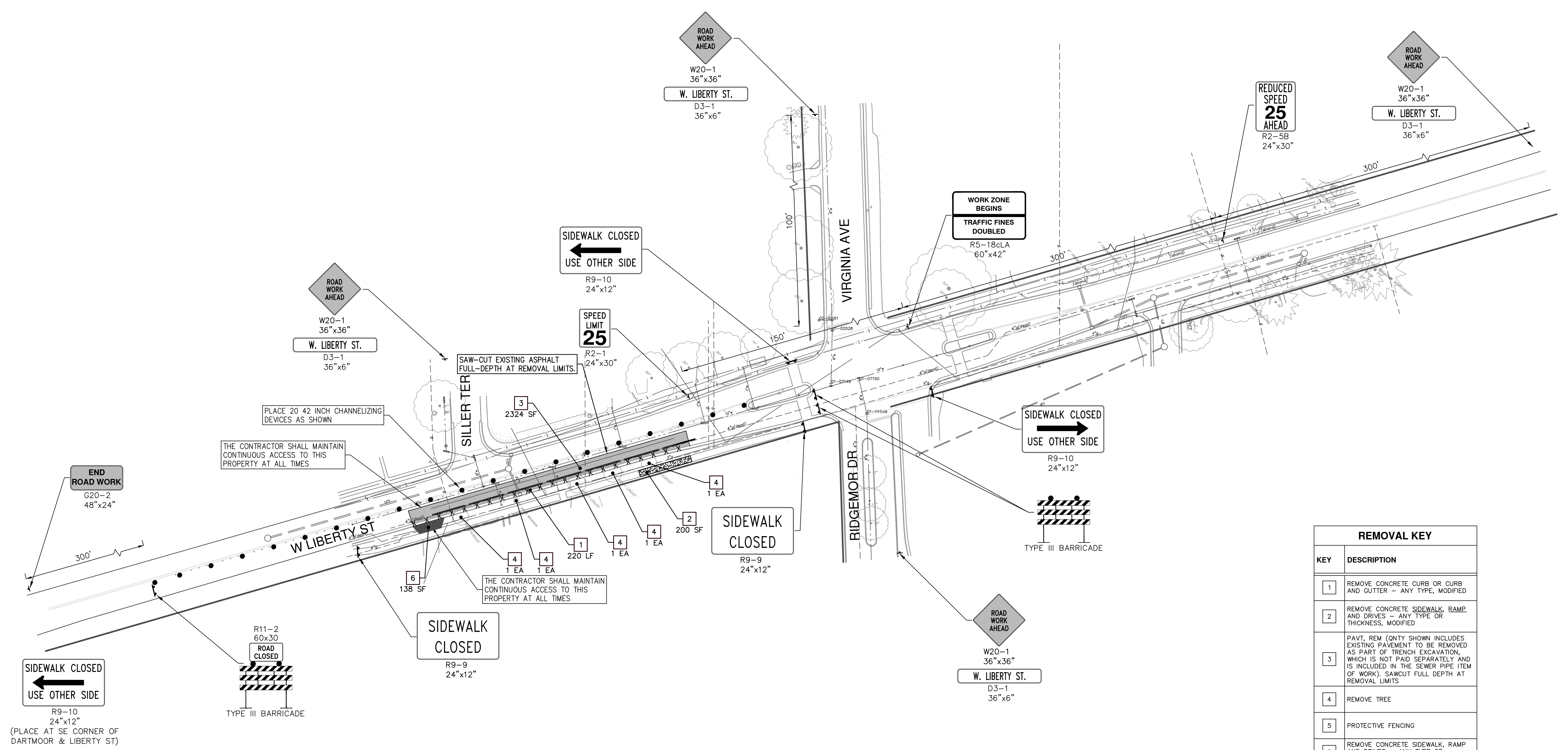
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
LIBERTY ST., HARVARD PLACE
AND ARLINGTON BLVD.
SANITARY SEWER EXTENSIONS
HARVARD PLACE SANITARY SEWER PLAN AND PROFILE

SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'

DRAWING No. **2014030-5**

SHEET No. **5 OF 11**

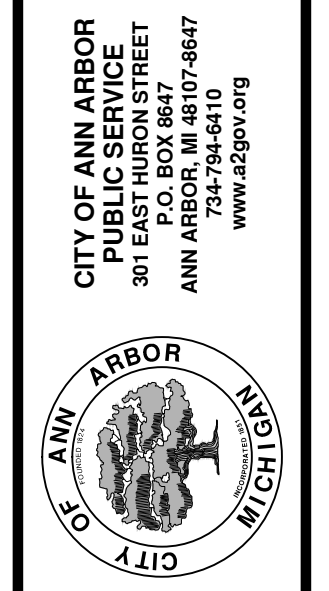
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REMOVAL KEY	
KEY	DESCRIPTION
1	REMOVE CONCRETE CURB OR CURB AND GUTTER - ANY TYPE, MODIFIED
2	REMOVE CONCRETE SIDEWALK, RAMP AND DRIVES - ANY TYPE OR THICKNESS, MODIFIED
3	PAVT, REM (QNTY SHOWN INCLUDES EXISTING PAVEMENT TO BE REMOVED AS PART OF TRENCH EXCAVATION, WHICH IS NOT PAID SEPARATELY AND IS INCLUDED IN THE SEWER PIPE ITEM OF WORK). SAWCUT FULL DEPTH AT REMOVAL LIMITS
4	REMOVE TREE
5	PROTECTIVE FENCING
6	REMOVE CONCRETE SIDEWALK, RAMP AND DRIVES - ANY TYPE OR THICKNESS, MODIFIED

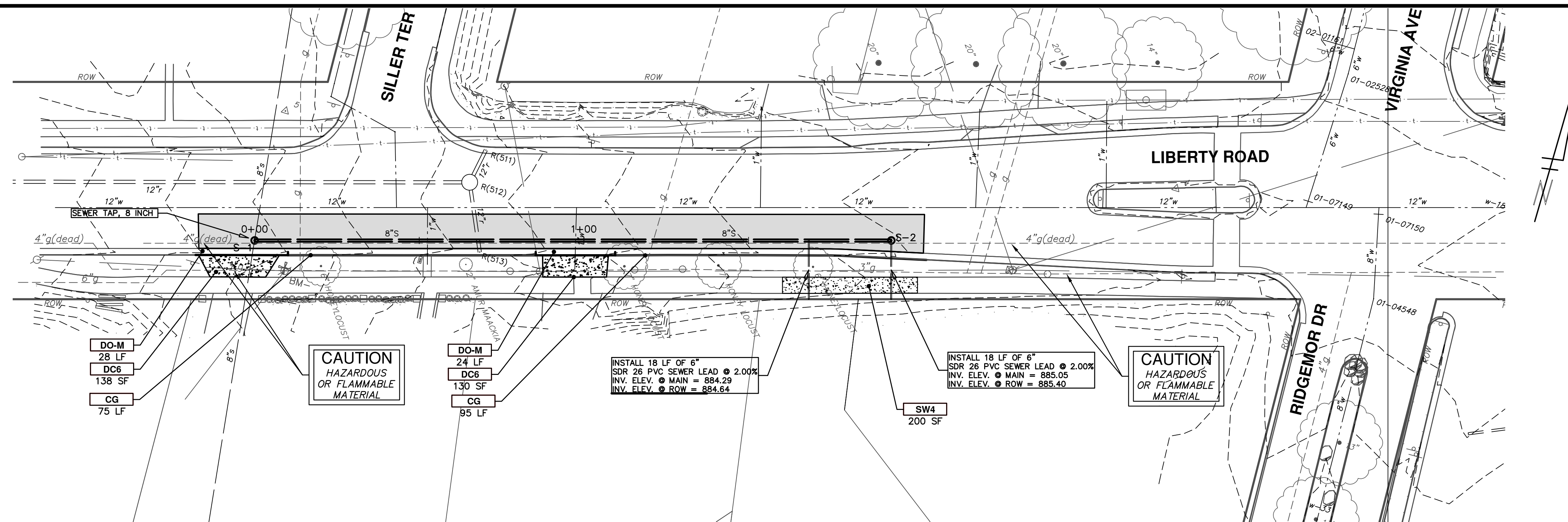
PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
 LIBERTY ST., HARVARD PLACE AND ARLINGTON BLVD. SANITARY SEWER EXTENSIONS
 LIBERTY ST REMOVALS & TRAFFIC CONTROL

SCALE PLAN: 1" = 40'
 DRAWING No. 2014030-6

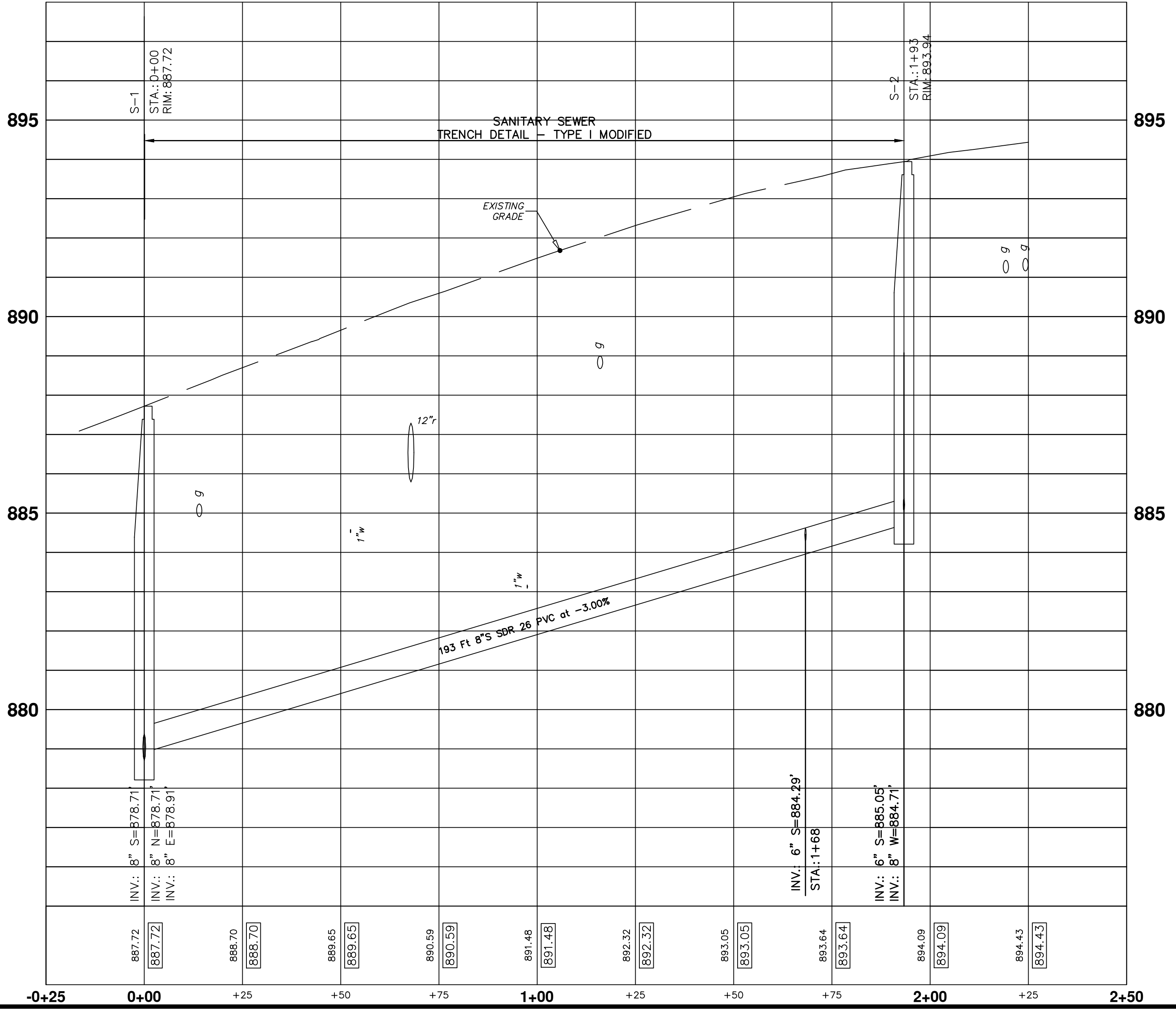


REV.	DATE	DESCRIPTION
01	08-18-14	ADDENDUM 1

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CONSTRUCTION KEY	
KEY	DESCRIPTION
CG	PLACE CONCRETE CURB OR CURB & GUTTER - ANY TYPE (SEE TYPICAL CROSS SECTION)
DO-M	PLACE CONCRETE TYPE DRIVE OPENING, HIGH EARLY
SW4	PLACE 4" CONC. SIDEWALK, MODIFIED
DC6	PLACE 6" CONCRETE DRIVE APPROACH, HIGH EARLY



SANITARY SEWER STRUCTURE TABLE							
STRUCTURE	STATION	RIM	DEPTH	DIA.	TYPE	INVERTS	NOTES
S-1	0+00	887.72	9.01	48"	4' MH	8" S 878.71 8" N 878.71 8" E 878.91	CONST. 4' DIA. MH OVER EX. 8" SAN. SEWER
S-2	1+93.32	893.94	9.23	48"	4' MH	6" S 885.05 8" W 884.71	CONST. 4' DIA. MH

SANITARY SEWER LEAD SCHEDULE						
STATION	FITTING	SIZE	INVERT @ MAIN	LEAD INVERT @ ROW	SLOPE	LEAD LENGTH (FT)
1+68	WYE	6"	884.29	884.64	2.0%	18
1+93	WYE	6"	885.05	885.40	2.0%	18

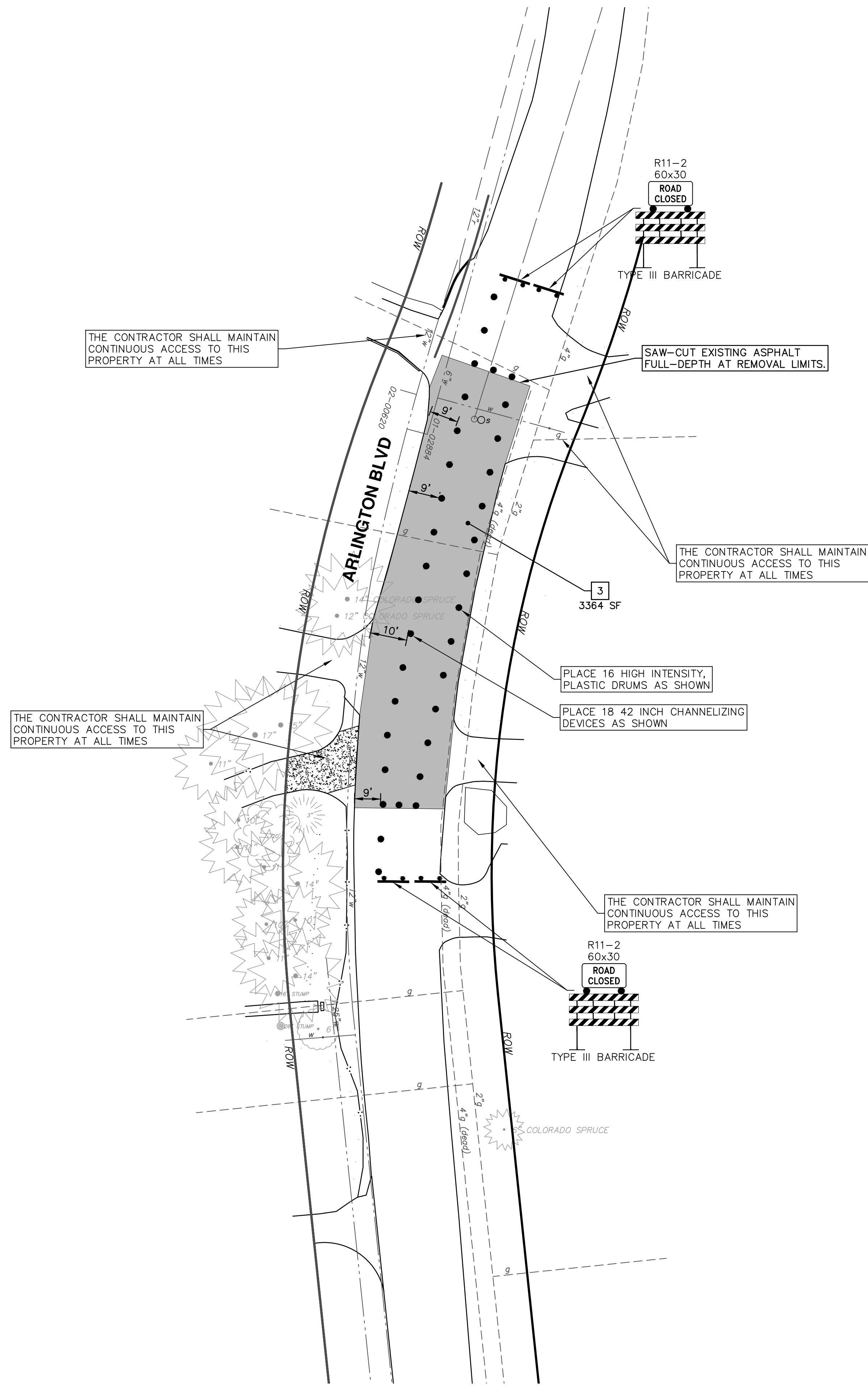
LIBERTY / RIDGEMOR BENCHMARKS		
BM #	ELEV	DESCRIPTION
3	885.927	RR SPIKE IN NE SIDE OF UP @ SW CORNER OF LIBERTY & 3RD
4	852.599	SET RR SPIKE IN NLY SIDE OF UP @ SE CORNER OF LIBERTY & 7TH
5	863.008	SET RR SPIKE IN NLY SIDE OF UP @ SE CORNER OF LIBERTY & EBERWHITE
6	890.348	SET RR SPIKE IN NLY SIDE OF UP ON S. SIDE OF LIBERTY IN FRONT OF HSE # 1417
7	895.367	SET RR SPIKE IN SLY SIDE OF UP @ NE CORNER OF LIBERTY & VIRGINIA
8	888.326	SET RR SPIKE IN W SIDE OF LP ON E SIDE OF VIRGINIA (FIRST LIGHT POLE N OF LIBERTY)
9	877.254	SET RR SPIKE IN W SIDE OF LP ON E SIDE OF VIRGINIA (SECOND LIGHT POLE N OF LIBERTY)
10	889.781	SET RR SPIKE IN N SIDE OF UP ON S SIDE OF LIBERTY @ DRIVE FOR HSE #1571

811
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LIBERTY ST., HARVARD PLACE
AND ARLINGTON BLVD.
SANITARY SEWER EXTENSIONS
LIBERTY ST SANITARY SEWER PLAN AND PROFILE

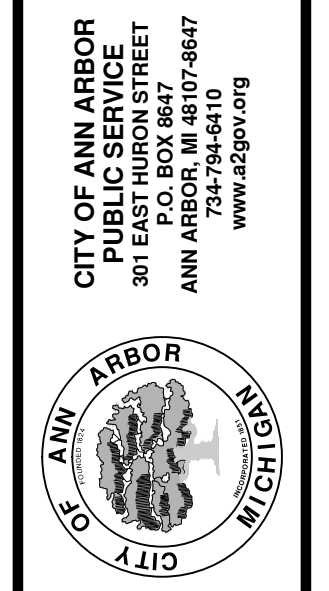
SHEET No. **8 OF 11**



REMOVAL KEY	
KEY	DESCRIPTION
1	REMOVE CONCRETE CURB OR CURB AND GUTTER - ANY TYPE, MODIFIED
2	REMOVE CONCRETE SIDEWALK, RAMP AND DRIVES - ANY TYPE OR THICKNESS, MODIFIED
3	PAVT. REM (QNTY SHOWN INCLUDES EXISTING PAVEMENT TO BE REMOVED AS PART OF TRENCH EXCAVATION, WHICH IS NOT PAID SEPARATELY AND IS INCLUDED IN THE SEWER PIPE ITEM OF WORK). SAWCUT FULL DEPTH AT REMOVAL LIMITS
4	REMOVE TREE
5	PROTECTIVE FENCING

PROJECT MANAGEMENT - PUBLIC SERVICES - CITY OF ANN ARBOR
LIBERTY ST., HARVARD PLACE AND ARLINGTON BLVD.
SANITARY SEWER EXTENSIONS
 ARLINGTON BLVD, REMOVALS & TRAFFIC CONTROL

SCALE PLAN: 1" = 20'
 DRAWING No. 2014030-9

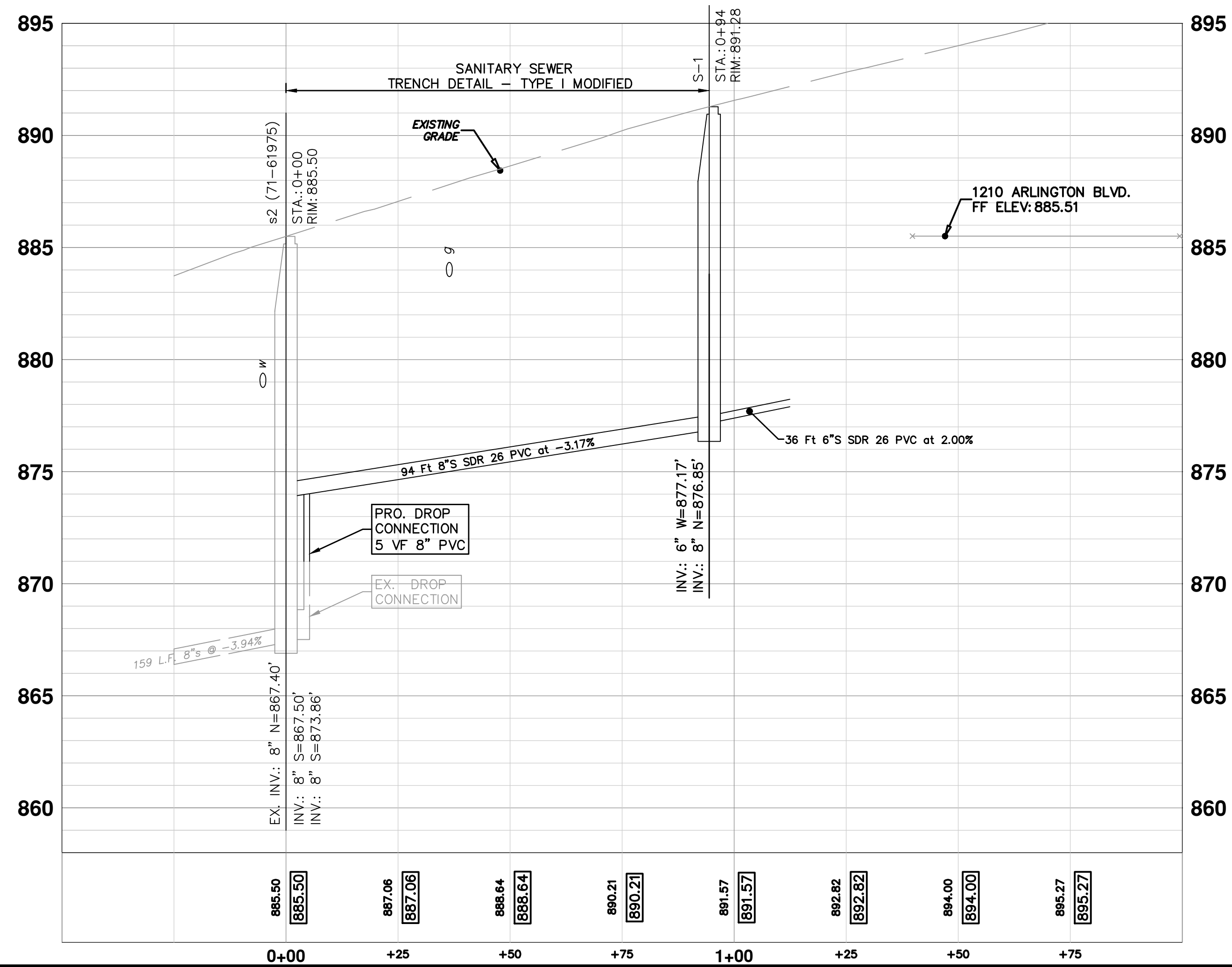
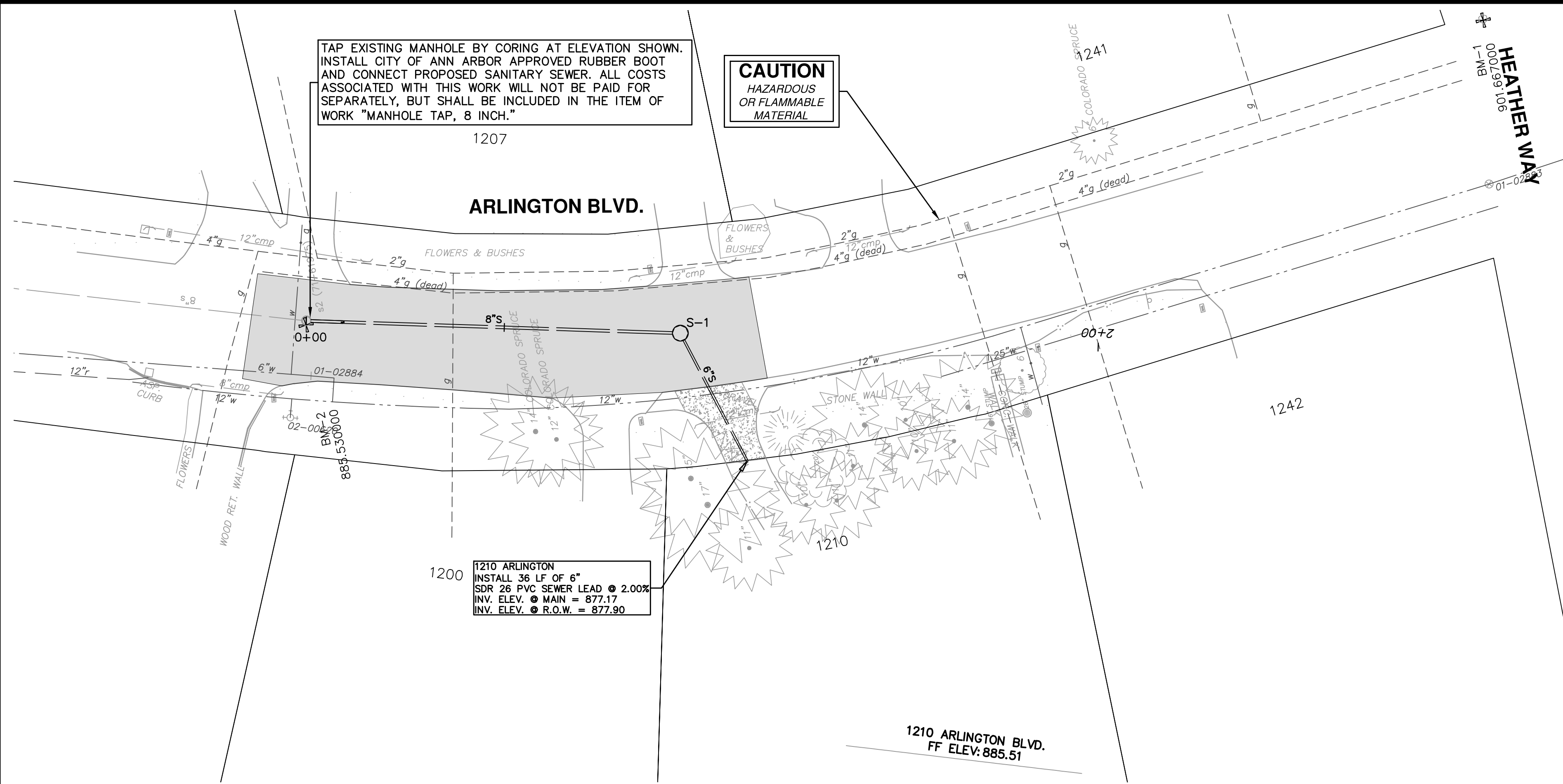


REV.	DESCRIPTION
01	ADDENDUM 1

DATE	DRAWN	CHECKED
08-18-14	DD	DD



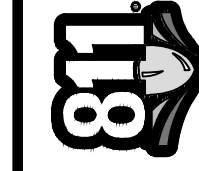
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SANITARY SEWER STRUCTURE TABLE							
STRUCTURE	STATION	RIM	DEPTH	DIA.	TYPE	INVERTS	NOTES
s2 (71-61975)	0+00	885.50	18.10	48"	4' MH	8" N 867.40 8" S 867.50 8" S 873.86	TAP EX. MANHOLE/EX. DROP CONNECTION CONST. DROP CONNECTION
S-1	0+94.44	891.28	14.43	48"	4' MH	6" W 877.17 8" N 876.85	CONSTRUCT 4' DIA. MANHOLE

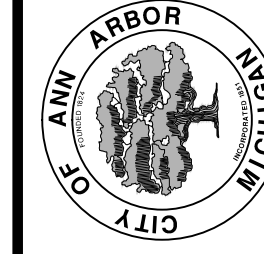
SANITARY SEWER LEAD SCHEDULE							
STATION	ADDRESS	FITTING	SIZE	INVERT @ MAIN	LEAD INVERT @ ROW	SLOPE	LEAD LENGTH (FT)
0+94	1210 ARLINGTON	WYE	6"	877.00	877.73	2.0%	36

ARLINGTON BOULEVARD BENCHMARKS		
BM #	ELEV	DESCRIPTION
1	901.667	SET RR SPIKE L.P. @ NE CORNER OF ARLINGTON & HEATHER WAY
2	885.530	W. RIM ON SAN. MH
3	883.969	SPIKE IN E. FACE OF P.P. @ N.W. CORNER OF BELMONT & LONDONDERRY



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01	ADDENDUM 1	08-18-14	DATE	DD	DD	DD	DD	DD	DD
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SANITARY SEWER EXTENSIONS
ARLINGTON BLVD. SANITARY SEWER PLAN AND PROFILE

SCALE PLAN: 1" = 20'
PROFILE: 1" = 4'

DRAWING No. 2014030-11

SHEET No. 11 OF 11