

WATER SYSTEM IMPROVEMENTS CONTRACT 1 AND CONTRACT 2

FOR THE
CASCADE METROPOLITAN DISTRICT NO. 1

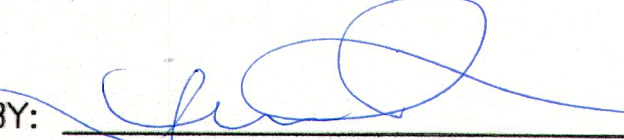
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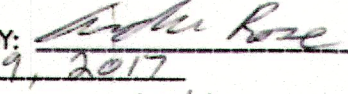
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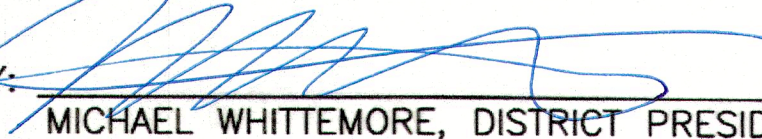
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2	GENERAL NOTES
3	LEGEND AND COORDINATE DATA
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12	SEGMENTS 7a, 8a AND DETAIL - CONTRACT 1
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APPROVED FOR BIDDING AND CONSTRUCTION

THIS PLAN APPROVED FOR BIDDING AND CONSTRUCTION. IN THE EVENT OF ROAD IMPROVEMENTS, ADJUSTMENTS OF THIS UTILITY WILL BE AT THE OWNER'S EXPENSE. COUNTY PLAN REVIEW IS ONLY PROVIDED FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS, WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

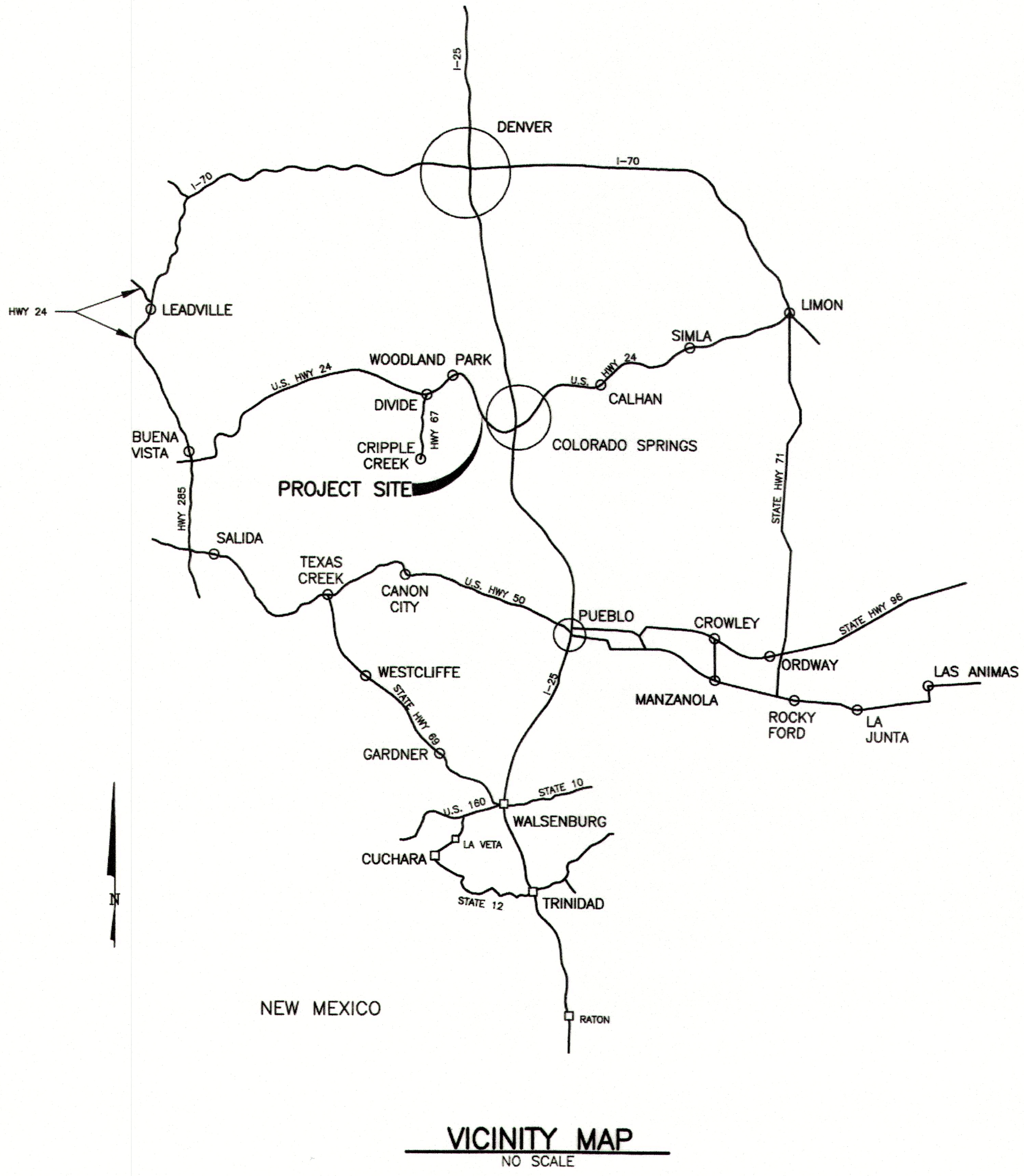
BY:  DATE: 27 JUNE 2017
JENNIFER E. IRVINE, P.E.,
COUNTY ENGINEER / ECM ADMINISTRATOR

COLORADO SPRINGS UTILITIES CONSTRUCTION PLAN APPROVAL	
APPROVED BY:  DATE: <u>JUNE 19, 2017</u>	DATE: <u>JUNE 19, 2017</u>
PROJECT NUMBER: <u>N/A</u>	WORK ORDER NUMBER: <u>3095128</u>
CSU SHEET <u>1</u> OF <u>30</u>	
APPROVAL EXPIRES ONE (1) YEAR FROM THE DATE ABOVE AND RESUBMITTAL OF THESE PLANS FOR REVIEW AND APPROVAL IS REQUIRED IF CONSTRUCTION DOES NOT BEGIN DURING THIS PERIOD.	

BY:  DATE: 6/20/17
MICHAEL WHITTEMORE, DISTRICT PRESIDENT

GMS, INC.
611 NORTH WEBER, SUITE 300
COLORADO SPRINGS, COLORADO 80903

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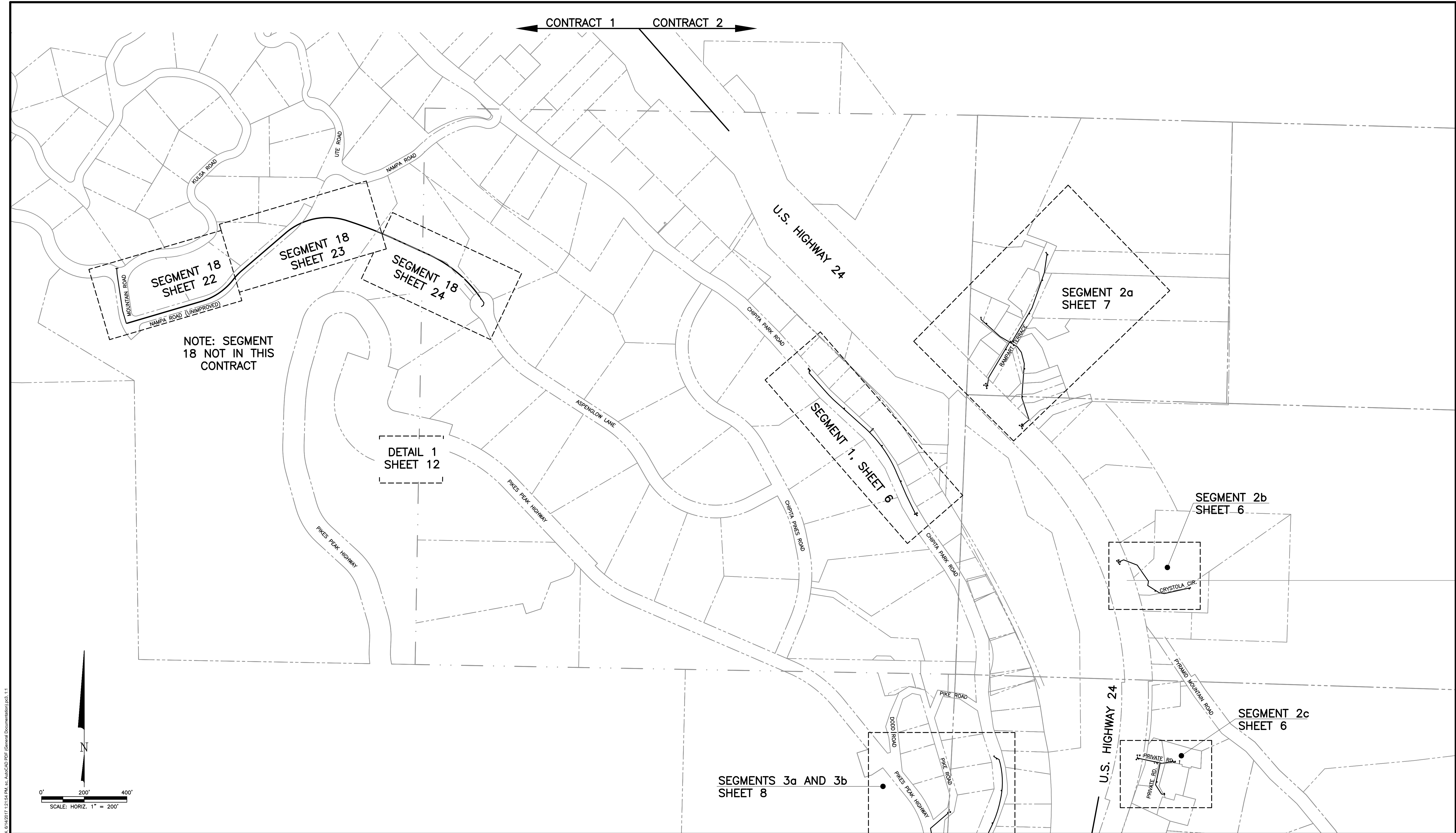
COORDINATE LIST		
PT. NO.	NORTHING	EASTING
500	12412.24	9262.44
501	12396.06	9261.54
502	12301.95	9345.81
503	12635.47	9718.32
504	12263.29	9384.42
505	12142.34	9519.24
506	11695.73	9118.57
507	11934.99	9668.80
508	11821.64	9718.09
509	11734.10	9761.08
510	11508.58	10710.78
511	11519.91	10736.54
512	11495.17	10800.17
513	11419.33	10853.28
514	11399.55	10849.80
515	11366.07	10902.36
516	11361.66	10927.35
517	11388.87	11050.04
518	10589.97	10800.77
519	10567.06	10908.32
520	10565.32	10916.49
521	10574.80	10967.77
522	10567.85	10977.88
523	10464.35	10886.44
524	10421.40	10914.30
525	10418.27	10929.00
526	12335.12	10091.02
527	12339.93	10097.82
528	12375.72	11010.92
529	12541.11	10201.77
530	12536.71	10209.22
531	12701.14	10306.50
532	12867.11	10364.82
533	12955.62	10377.43
534	12146.44	10256.14
535	12177.11	10293.43
536	12281.03	10259.04
537	12440.09	10270.68
538	12493.57	10256.96
539	12520.36	10236.86
540	12567.45	10157.26
541	12647.30	10068.14
542	12658.23	10067.54
543	10596.60	10128.40
544	10582.81	10152.76
545	10571.82	10155.64
546	10477.01	9792.82
547	10396.03	10158.97
548	10381.12	10155.67
549	10489.10	9667.47
550	10278.67	10121.03
551	10039.02	10009.84
552	9744.41	10644.83
553	9800.93	9947.12
554	9693.01	9938.37
555	9749.54	9240.66
556	9602.21	9924.98
557	9582.11	9920.34
558	9494.50	9898.76
559	9374.91	10384.25
560	9443.60	9888.99
561	9374.28	9879.37
562	9022.90	9830.63
563	8926.73	10524.00
564	8726.24	9853.32
565	8473.81	9928.78
566	8674.30	10599.46
567	8320.03	9995.72
568	8171.50	10112.44
569	8155.28	10129.18
570	8025.82	10131.08
571	7966.95	10156.48
572	10332.72	9915.04
573	10260.21	9830.72
574	10063.92	9867.10
575	9790.59	8392.21
576	9862.75	9890.47
577	9759.64	9895.44
578	9608.08	9897.74
579	9380.87	9831.85
580	9421.72	9800.96
581	9440.86	9766.28
582	9445.42	9713.09
583	9437.14	9689.18
584	9401.29	9650.88
585	9324.70	9618.42
586	9317.23	9610.82
587	9307.75	9606.80
588	9411.34	9371.71
589	9415.10	9381.71
590	9376.94	9466.20

PT. NO.	NORTHING	EASTING
591	9339.90	9505.18
592	9305.22	9587.00
593	9310.55	9600.19
594	9304.62	9614.18
595	7498.18	11020.02
596	9252.00	9633.14
597	9214.40	9625.15
598	9183.05	9588.28
599	9149.11	9570.89
600	9086.42	9569.75
601	8998.01	9549.01
602	8990.70	9537.18
603	8038.05	10349.79
604	8028.45	10354.78
605	7883.31	10283.92
606	7646.03	10449.21
607	7569.88	10482.12
608	7453.86	10546.87
609	7386.94	10591.68
610	7311.21	10657.57
611	7258.35	10720.44
612	7238.61	10722.15
613	7040.44	10957.92
614	7042.91	10986.43
615	6884.89	11188.33
616	6714.69	11377.20
617	6614.65	11446.82
618	6555.49	11469.60
619	6443.33	11486.04
620	6395.04	11509.28
621	6344.10	11538.09
622	6250.66	11601.72
623	6180.56	11647.36
624	6066.66	11721.11
625	6048.46	11717.22
626	8166.59	9742.50
627	8174.75	9748.13
628	8159.08	9737.31
629	8146.09	9731.70
630	8085.18	9705.37
631	8023.01	9575.50
632	7763.67	9387.35
633	7720.91	9342.64
634	7700.78	9294.90
635	7700.35	9268.33
636	7627.66	9197.79
637	7620.01	9182.30
638	7614.81	9171.83
639	7608.86	9121.54
640	7612.10	9082.35
641	7619.20	9042.90
642	7660.51	9033.89
643	7692.49	9039.10
644	7848.13	9195.41
645	8018.69	9377.02
646	7437.80	10191.00
647	8102.42	9443.82
648	8256.46	9580.83
649	8238.25	9601.31
650	8149.09	9724.75
651	7545.10	9217.85
652	7529.62	9239.18
653	7533.35	9262.62
654	7465.14	9356.61
655	9389.13	10817.42
656	9493.78	10774.05
657	9511.80	10754.54
658	9554.21	10676.97
659	9568.86	10665.54
660	9580.39	10662.46
661	9594.80	10664.49
662	9609.06	10673.03
663	9638.03	10713.01
664	9695.49	10828.55
665	9737.62	10866.03
666	9781.60	10864.23
667	9808.59	10835.94
668	9849.49	10732.92
669	9867.32	10718.91
670	9885.33	10688.27
671	9916.75	10675.12
672	10005.03	10674.78
673	10034.43	10645.16
674	9396.28	10972.02
675	9407.98	10977.84
676	9438.36	11015.59
677	9508.55	11068.37
678	9542.15	11105.09
679	9583.25	11171.24
680	9597.08	11245.41
681	9598.24	11319.28
682	9605.71	11337.13
683	9613.17	11344.72

PT. NO.	NORTHING	EASTING
684	9622.36	11348.76
685	9643.97	11349.47
686	9668.14	11340.72
687	9692.78	11318.77
688	9705.19	11319.48
689	9748.63	11280.48
690	9793.95	11237.65
691	9830.71	11205.38
692	9840.10	11199.67
693	9859.65	11204.44
694	8347.06	11939.20
695	12825.78	7001.73
696	8345.16	11951.39
697	8375.63	12012.30
698	8397.62	12058.93
699	8422.49	12122.21
700	8430.47	12200.79
701	8449.04	12462.46
702	8463.71	12605.29
703	8479.59	12673.20
704	8494.68	12704.18
705	8525.64	12719.67
706	8558.19	12714.11
707	8584.23	12701.49
708	8612.72	12663.92
709	8676.10	12647.99
710	8760.42	12716.57
711	8811.72	12746.74
712	8870.09	12773.62
713	8921.47	12790.56
714	8978.99	12794.20
715	9032.45	12736.32
716	9068.70	12638.91
717	9107.69	12509.12
718	9135.46	12431.61
719	9172.92	12360.16
720	9202.03	12294.88
721	9234.04	12202.18
722	9258.84	12161.02
723	9467.38	12090.89
724	9490.86	12102.55
725	9505.74	12097.55
726	9468.04	11493.41
727	9172.61	11627.50
728	9244.35	11741.71
729	9254.70	11751.45
730	9389.54	11935.71
731	9499.11	12040.66
732	9507.70	12070.67
733	8208.08	11551.20
734	8171.46	11565.34
735	7993.03	11748.44
736	7913.24	11822.37
737	7782.31	11954.41
738	7967.15	11013.09
739	7955.35	10986.25
740	7833.17	10855.71
741	7727.54	10912.31
742	7483.46	11014.26
743	7423.67	10870.18
744	7961.88	11015.76
745	7859.12	10989.21
746	7805.20	10998.67
747	7710.56	11069.64
748	7680.64	11153.94
749	7818.51	11415.12
750	7750.38	11463.99
751	7646.66	11489.37
752	7605.80	11510.73
753	7577.60	11542.12
754	7617.25	11579.57
755	7564.65	11665.06
756	7578.20	11695.99
757	8443.65	11218.80
758	8520.50	11275.81
759	7646.86	11742.65
760	7623.11	11768.09
761	7572.23	11803.10
762	7532.57	11818.91
763	7479.97	11830.52
764	7439.88	11848.50
765	7382.29	11891.87
766	7338.53	11938.22
767	7294.96	11998.47
768	7170.44	12132.73
769	7170.65	12138.29
770	7087.47	12227.95
771	7012.69	12305.18
772	6925.85	12397.19
773	6920.89	12404.15
774	6932.19	12412.28
775	7443.55	12426.41
776	7508.69	12315.55

PT. NO.	NORTHING	EASTING
777	7507.87	12312.41
778	12887.48	6014.14
779	12862.75	6015.38
780	12688.30	6041.56
781	12628.89	6059.06
782	12732.48	6410.64
783	13015.45	6327.27
784	12834.77	6560.46
785	12649.78	6796.64
786	12877.45	6601.27
787	13053.45	6806.37
788	12825.78	7001.73
789	13111.60	7092.87
790	13027.05	7312.46
791	12953.05	7475.36
792	12406.77	7227.21
793	12755.67	7715.32
794	12726.26	7736.29
795	12714.53	7734.06
796	12708.42	7724.98

△ - CONTROL COORDINATE LIST			
PT. NO.	NORTH	EAST	ELEVATION DESCRIPTION
3	16965.81	4932.57	7643.27 60d SPIKE
4	12930.13	9336.45	7480.21 60d SPIKE
5	12787.72	8818.67	7489.61 NO. 4 REBAR
6	11704.59	9733.04	7443.26 NO. 4 REBAR
7	8044.06	10334.75	7376.33 PK NAIL
8	10000.00	10000.00	7429.78 NO. 4 REBAR
9	7866.17	10548.52	7375.00 NO. 4 REBAR
10	7045.54	11018.69	7325.29 NO. 4 REBAR
11	6613.23	11465.53	7296.02 NO. 4 REBAR
12	11423.22	10752.31	7475.77 PROPERTY PIN
13	11272.60	10632.88	7461.58 60d SPIKE
17	11268.73	8287.03	7675.87 NO. 5 REBAR
18	9432.55	12076.50	7655.99 NO. 4 REBAR
19	8471.93	12737.33	7628.95 NO. 4 REBAR
20	5652.55	12694.06	7513.26 60d SPIKE
21	5252.35	12768.88	7217.15 PK NAIL
22	8079.50	10267.00	7375.95 PK NAIL
23	12027.40	9580.53	7



NOTE:
CONTRACT 1 - WEST SIDE OF HIGHWAY 24
CONTRACT 2 - EAST SIDE OF HIGHWAY 24

MATCH LINE

REFER TO SHEET 5

CONTRACT 1 CONTRACT 2

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SHEET INDEX MAP 1
WATER SYSTEM IMPROVEMENTS
CASCADE METROPOLITAN DISTRICT NO. 1

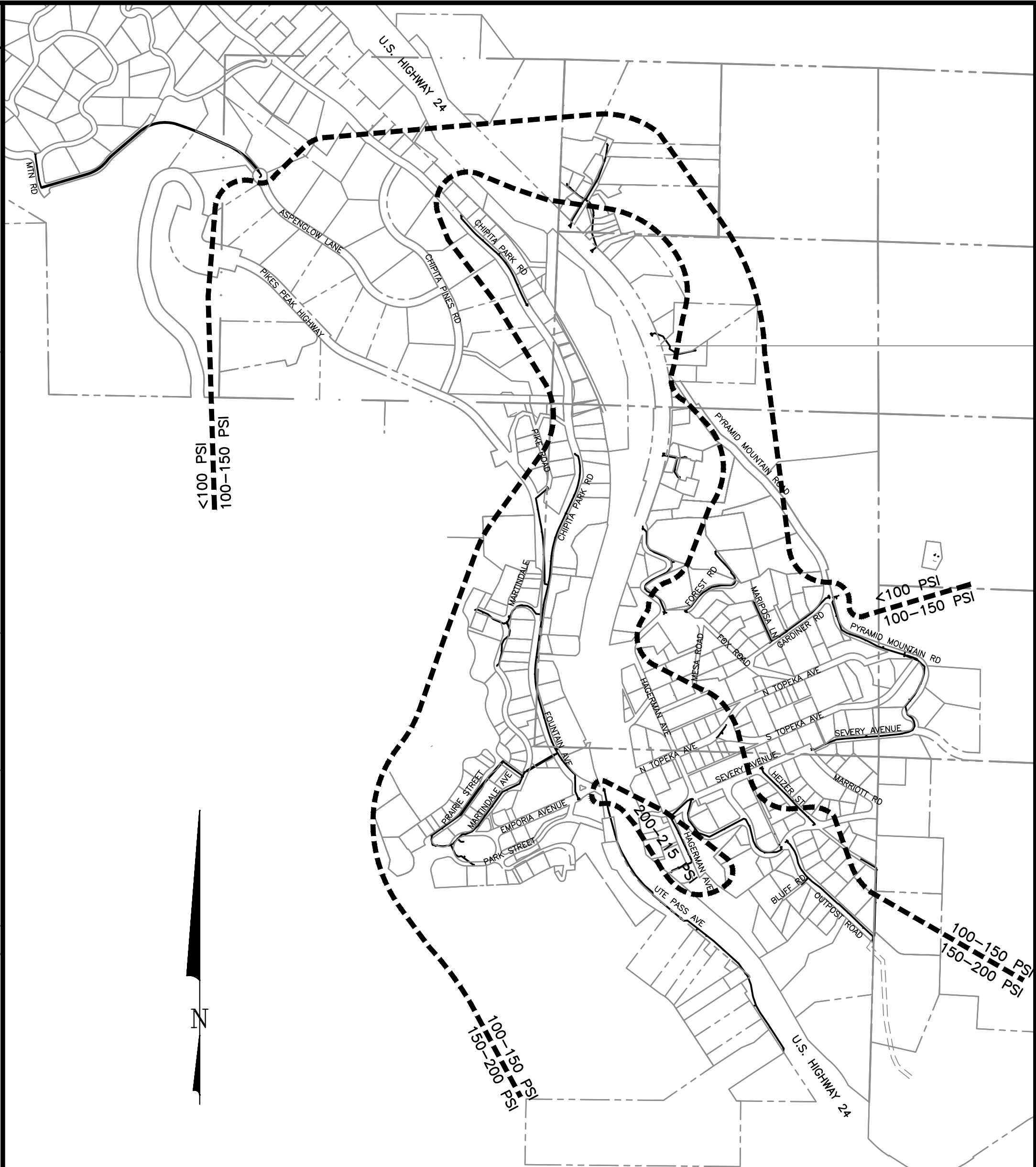
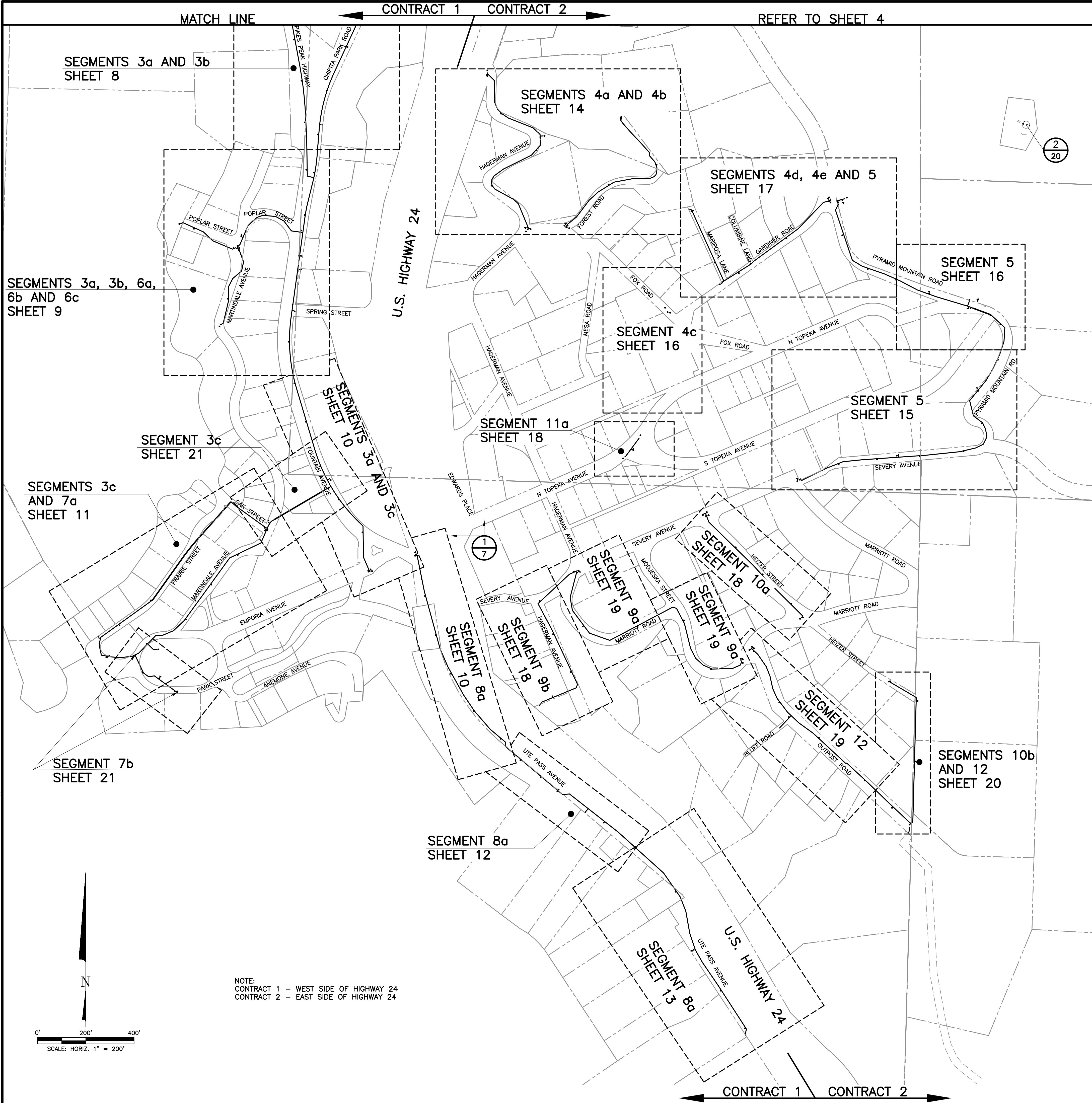
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PROJECT NO. 15061.300
GMS FILE NO. 2810

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CONSULTING ENGINEERS
611 N. WEBER, SUITE 300
COLORADO SPRINGS, COLORADO 80903

SHEET
4
OF
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PRESSURE ZONE MAP TO BE USED FOR JOINT RESTRAINT DISTANCE REQUIREMENTS PER CSU TABLE BELOW

L = MINIMUM RESTRAINED PIPE LENGTH (FEET)										
PIPE DIAMETER INCH	4" BEND					30-45° BEND				
	100-150	150-200	200-215	215-230	230-250	100-150	150-200	200-215	215-230	230-250
6 INCH	6	9	12	3	6	6	2	3	3	48
8 INCH	8	12	16	4	8	8	2	3	4	63
12 INCH	12	17	23	6	11	11	3	4	6	89
16 INCH	16	22	29	7	14	14	4	6	7	117
20 INCH	20	28	36	9	17	17	5	7	9	144
24 INCH	24	33	42	11	20	20	6	9	11	180
30 INCH	30	40	50	13	24	24	7	11	14	216
36 INCH	36	48	60	15	28	28	8	13	17	252
42 INCH	42	56	70	17	32	32	9	15	20	288

UNRESTRAINED BELL
BELL HARNESSES
RESTRAINTS (TYP.)
MECHANICAL
JOINT BEND

NOTES:
1. PRESSURE GREATER THAN 200 PSI REQUIRES SPECIAL DESIGN APPROVED BY SPRINGS UTILITIES, APPROVED BY COLORADO SPRINGS UTILITIES.
2. LENGTH IS BASED ON MINIMUM 8 FEET OF BELLHORN COVER AND SOIL COMPACTED ACCORDING TO CHAPTER 5 OF THESE WATER LBS. IF THE DEPTH IS LESS THAN 8 FEET, RESTRAINED LENGTH MUST BE DESIGNED BY THE DESIGN ENGINEER.
3. APPROVAL OF RESTRAINED PIPE LENGTHS MUST BE OBTAINED FROM SPRINGS UTILITIES.
4. RESTRAINED PIPE LENGTH APPLIES TO CONDITIONS WHERE NO CONCRETE THURST REACTION BLOCK IS PRESENT.
5. CALCULATIONS ARE BASED ON A POCKY GRAVEL SAND, GRAVEL, AND GRAVEL SAND MIXTURE, LITTLE OR NO FINE, TYPE 4 BEDDING CONDITIONS. PIPE BEDDED IN SAND, GRAVEL OR CRUSHED STONE TO A DEPTH OF 18 INCHES (4" MIN.) FACTOR OF SAFETY 2.1.
6. FIGURES ARE BASED ON 10' MINIMUM BENDS.
7. MEASUREMENTS ARE IN FEET.
8. USE CSA FOR CORNER TURNING BENDS.
9. RESTRAINED LENGTH FOR DEAD END MAY BE USED AT THE DISCRETION OF COLORADO SPRINGS UTILITIES.

Colorado Springs Utilities
W/MECHANICAL JOINT RESTRAINTS
A4-4
DATED 03/09/14

NOTE: FOR 6" AND 8" FITTINGS WITHIN PRESSURE ZONE 200-215 PSI, ADD TO THE 150-200 PSI TABLE DISTANCE 2 FEET RESTRAINED LENGTH FOR BENDS AND 10 FEET FOR DEAD END, PLUG OR LINE VALVE.

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PLOT STYLE FILE: 15061.CTB
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SHEET INDEX MAP 2 AND PRESSURE ZONE MAP
WATER SYSTEM IMPROVEMENTS
CASCADE METROPOLITAN DISTRICT NO. 1

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DESIGNED: K/LW
CHECKED: EDM
DATE: FEBRUARY 2017
PROJECT NO: 15061.300
GMS FILE NO: 2810

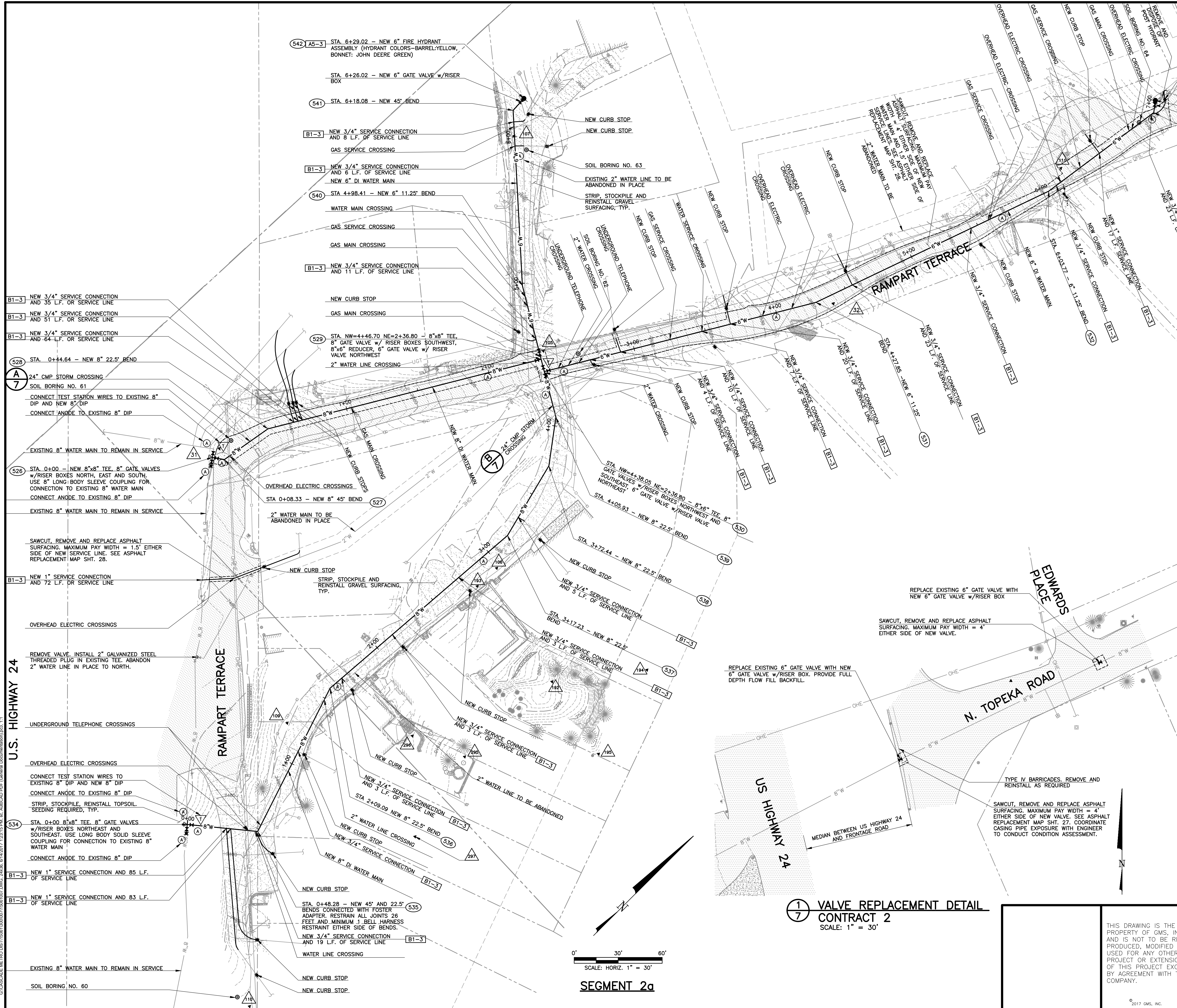
GMS, INC.
CONSULTING ENGINEERS
611 N. WEBER, SUITE 300
COLORADO SPRINGS, COLORADO 80903

SHEET
5
OF
30

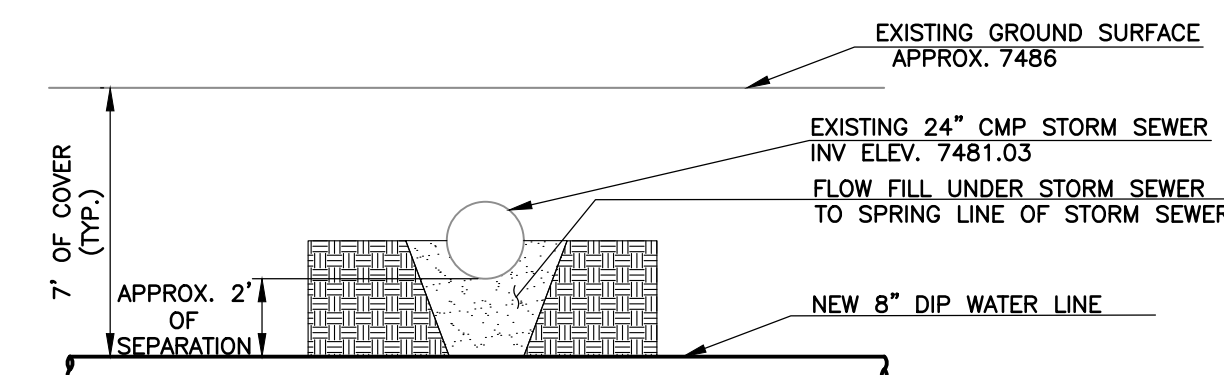
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U.S. HIGHWAY 24

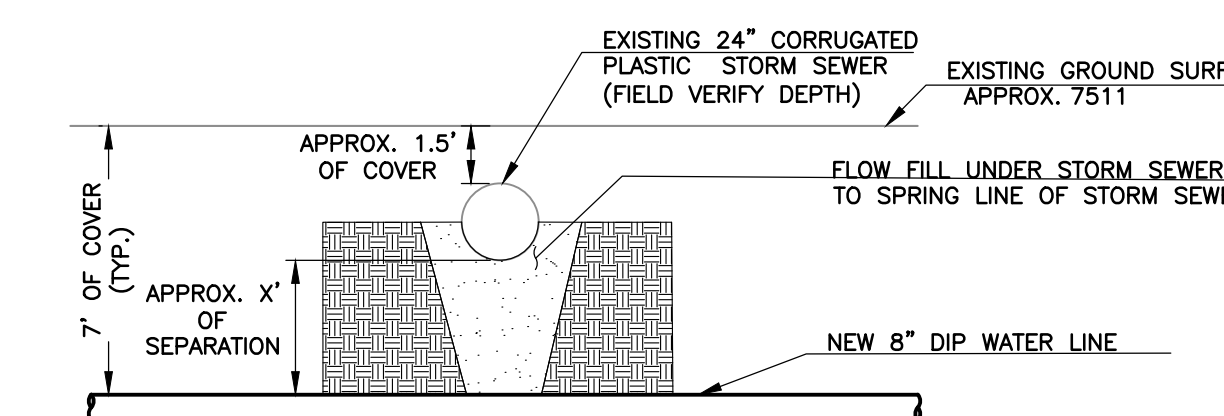


NOTE: WATER MAIN SHALL BE CONSTRUCTED WITHOUT MECHANICAL JOINTS FOR 9 FEET ON EITHER SIDE OF THE CROSSING.



(A) 24" STORM SEWER CROSSING
SCALE: 1" = 5'

NOTE: WATER MAIN SHALL BE CONSTRUCTED WITHOUT MECHANICAL JOINTS FOR 9 FEET ON EITHER SIDE OF THE CROSSING.



(B) 24" STORM SEWER CROSSING
SCALE: 1" = 5'

(1) VALVE REPLACEMENT DETAIL
CONTRACT 2
SCALE: 1" = 30'

0' 30' 60'
SCALE: HORIZ. 1" = 30'

SEGMENT 2a

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SEGMENT 2a - CONTRACT 2
WATER SYSTEM IMPROVEMENTS
CASCADE METROPOLITAN DISTRICT NO. 1

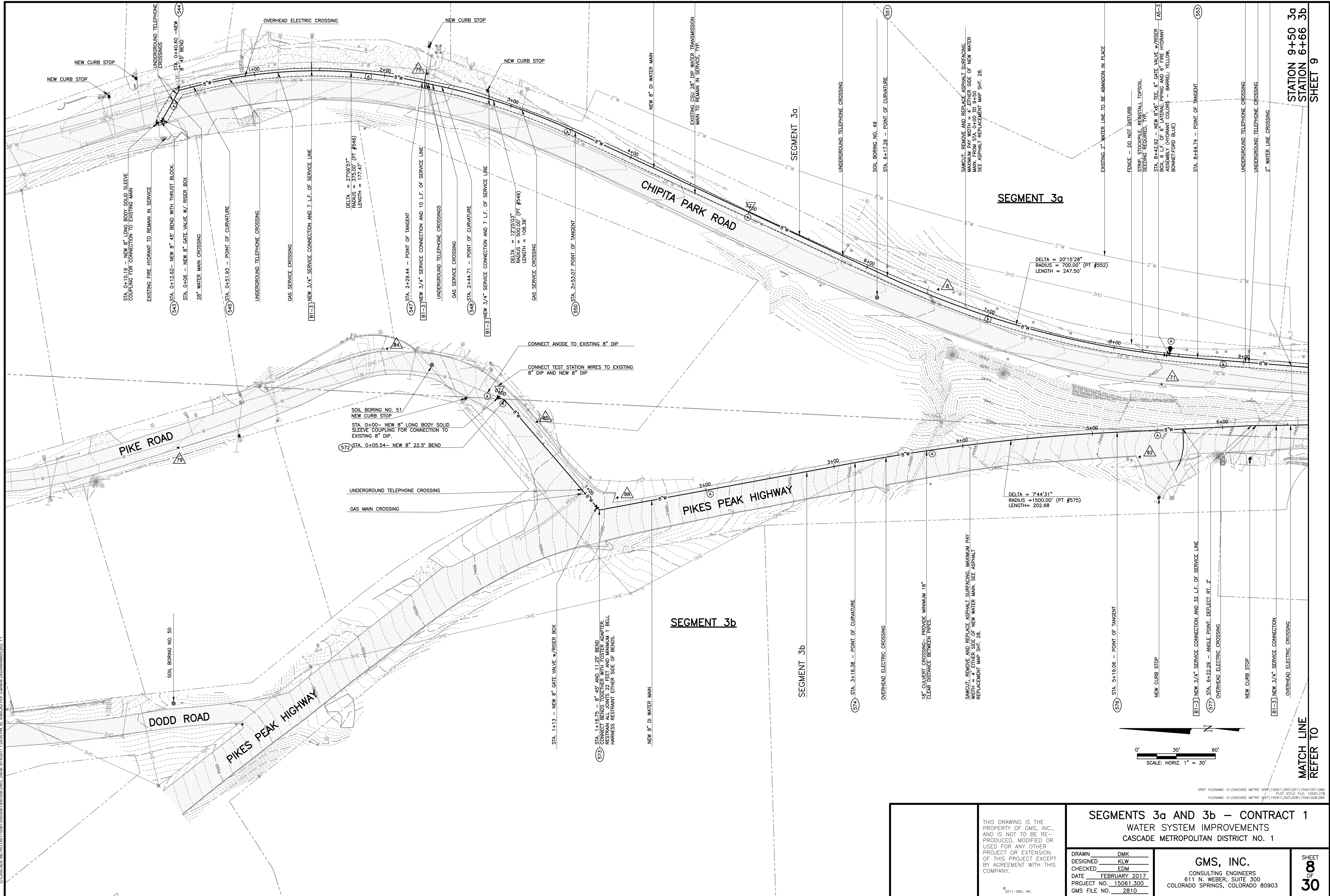
DRAWN: TJM
CHECKED: KIW
EDM
DATE: FEBRUARY 2017
PROJECT NO.: 15061.300
GMS FILE NO.: 2810

GMS, INC.
CONSULTING ENGINEERS
611 N. WEBER, SUITE 300
COLORADO SPRINGS, COLORADO 80903

SHEET
7
OF
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MATCH LINE
REFER TO

STATION 9+50 3a
STATION 6+66 3b
SHEET 9

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SEGMENTS 3a AND 3b – CONTRACT 1
WATER SYSTEM IMPROVEMENTS
CASCAD METROPOLITAN DISTRICT NO. 1

DRAWN: DMK
DESIGNED: KIW
CHECKED: EDM
DATE: FEBRUARY 2017
PROJECT NO.: 15061.300
GMS FILE NO.: 2810

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CONSULTING ENGINEERS
611 N. WEBER, SUITE 300
COLORADO SPRINGS, COLORADO 80903

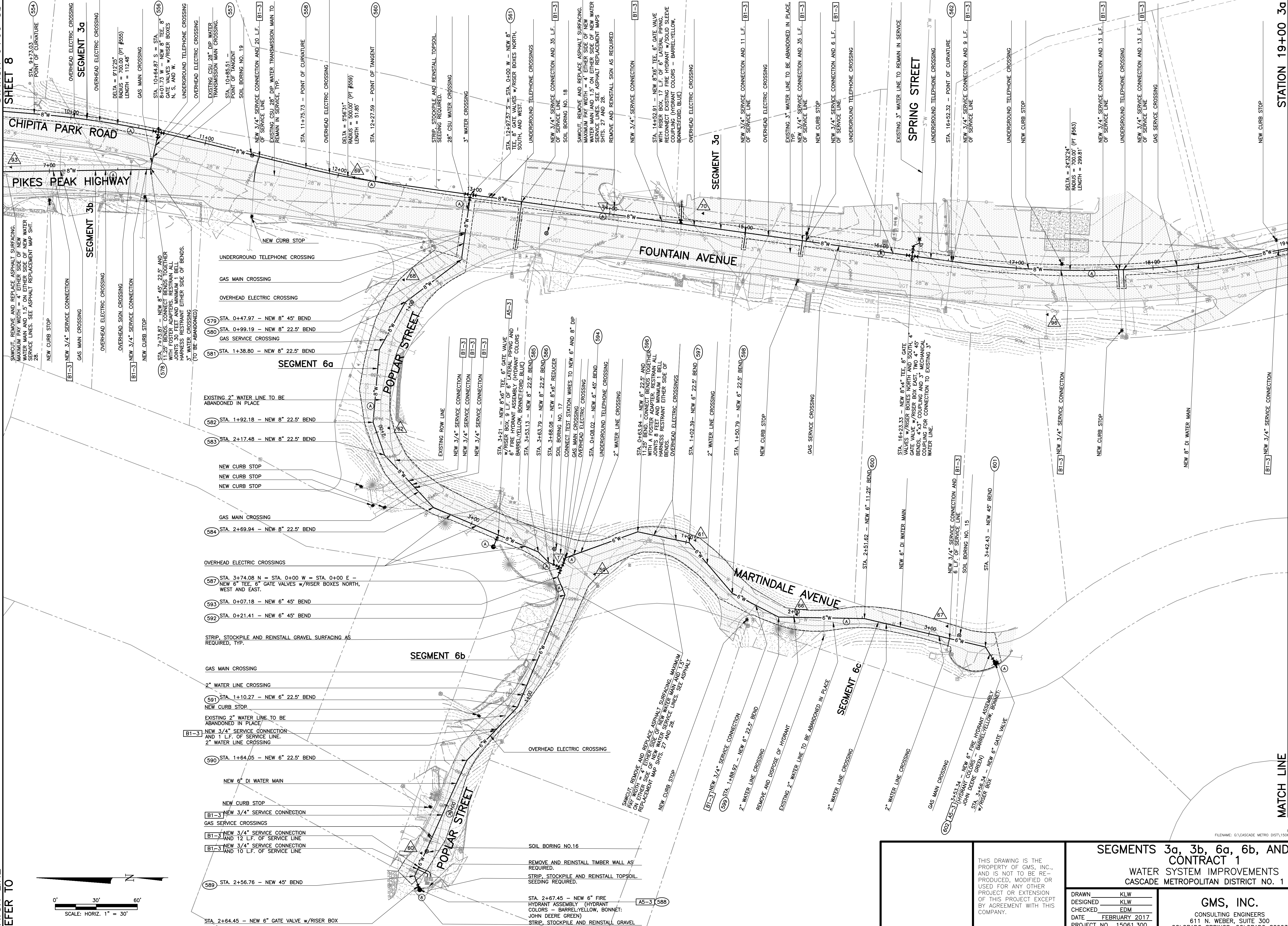
SHEET
8
OF
30

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STATION 9+50.3a
STATION 6+66.3b
SHEET 8

MATCH LINE
REFER TO



STATION 19+00.3a
SHEET 10

MATCH LINE
REFER TO

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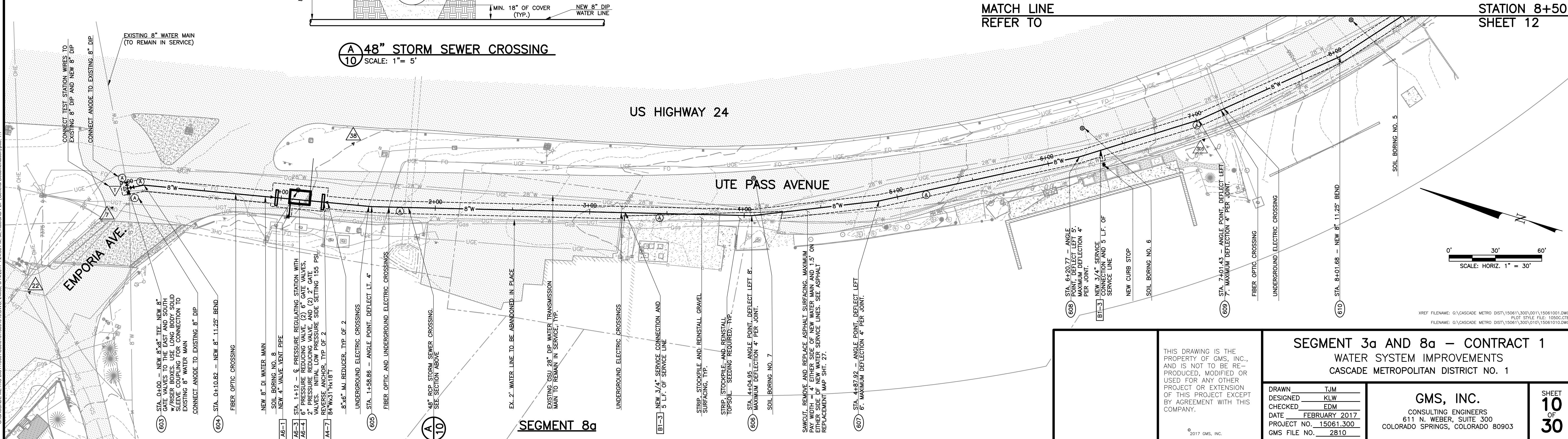
SEGMENTS 3a, 3b, 6a, 6b, AND 6c
CONTRACT 1
WATER SYSTEM IMPROVEMENTS
CASCADE METROPOLITAN DISTRICT NO. 1

DRAWN: KIW
DESIGNED: KIW
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DATE: FEBRUARY 2017
PROJECT NO.: 15061.300
GMS FILE NO.: 2810

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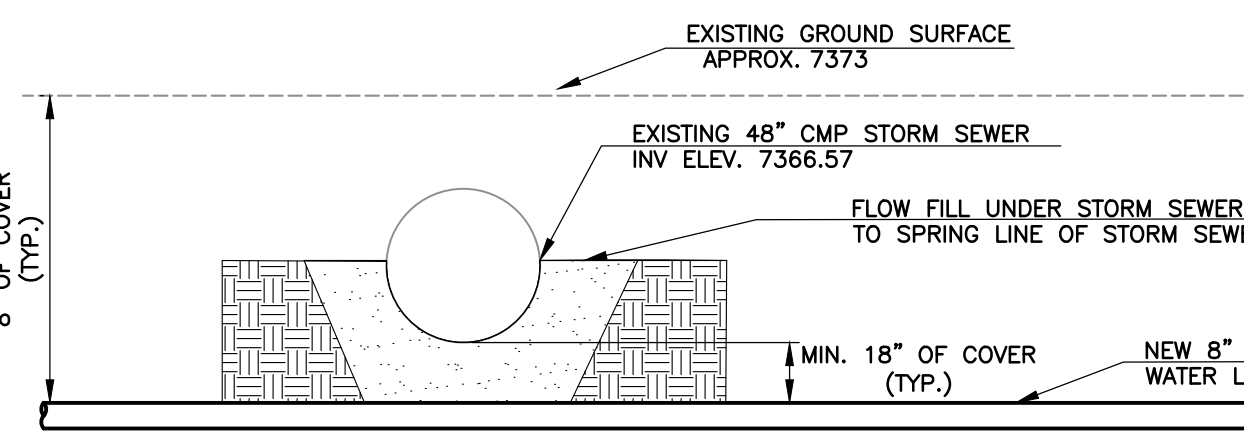
SHEET
9
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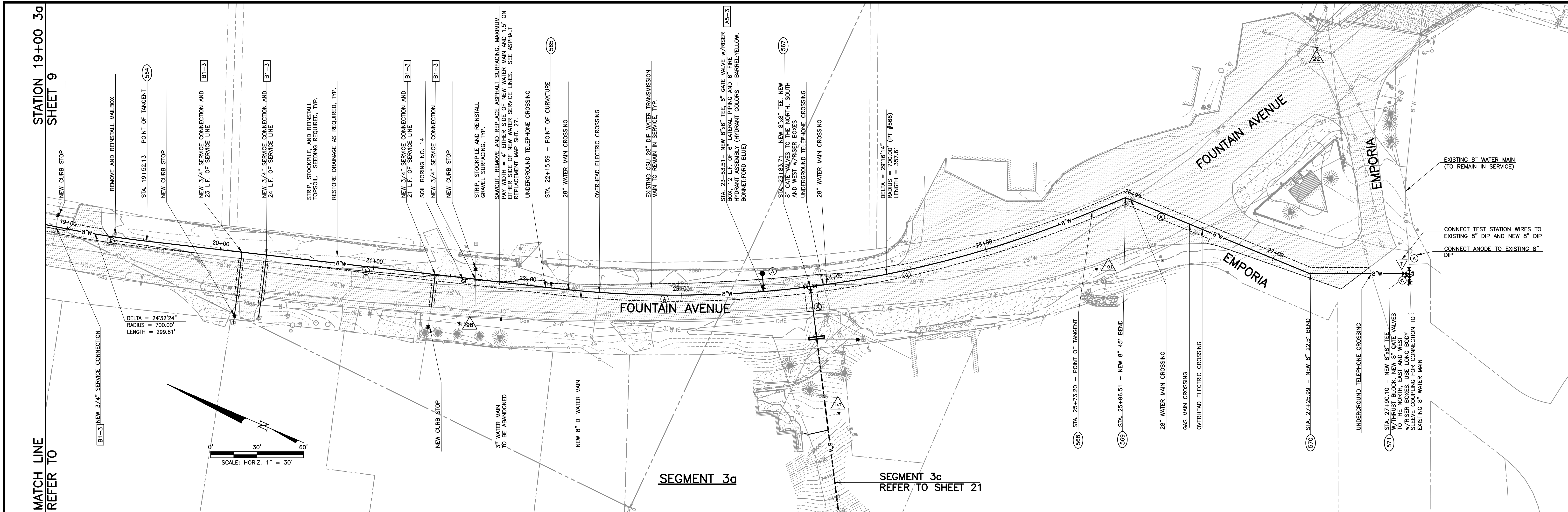
(A) 48" STORM SEWER CROSSING
SCALE: 1"= 5'

NOTE: WATER MAIN SHALL BE CONSTRUCTED WITHOUT MECHANICAL JOINTS FOR 9 FEET ON EITHER SIDE OF THE CROSSING.



MATCH LINE
REFER TO

STATION 8+50
SHEET 12



SEGMENT 3a

SEGMENT 3c
REFER TO SHEET 21

MATCH LINE
REFER TO

STATION 19+00 3a
SHEET 9

SEGMENT 3a AND 8a – CONTRACT 1
WATER SYSTEM IMPROVEMENTS
CASCADE METROPOLITAN DISTRICT NO. 1

DRAWN: TJM
DESIGNED: KIW
CHECKED: EDM
DATE: FEBRUARY 2017
PROJECT NO.: 15061.300
GMS FILE NO.: 2810

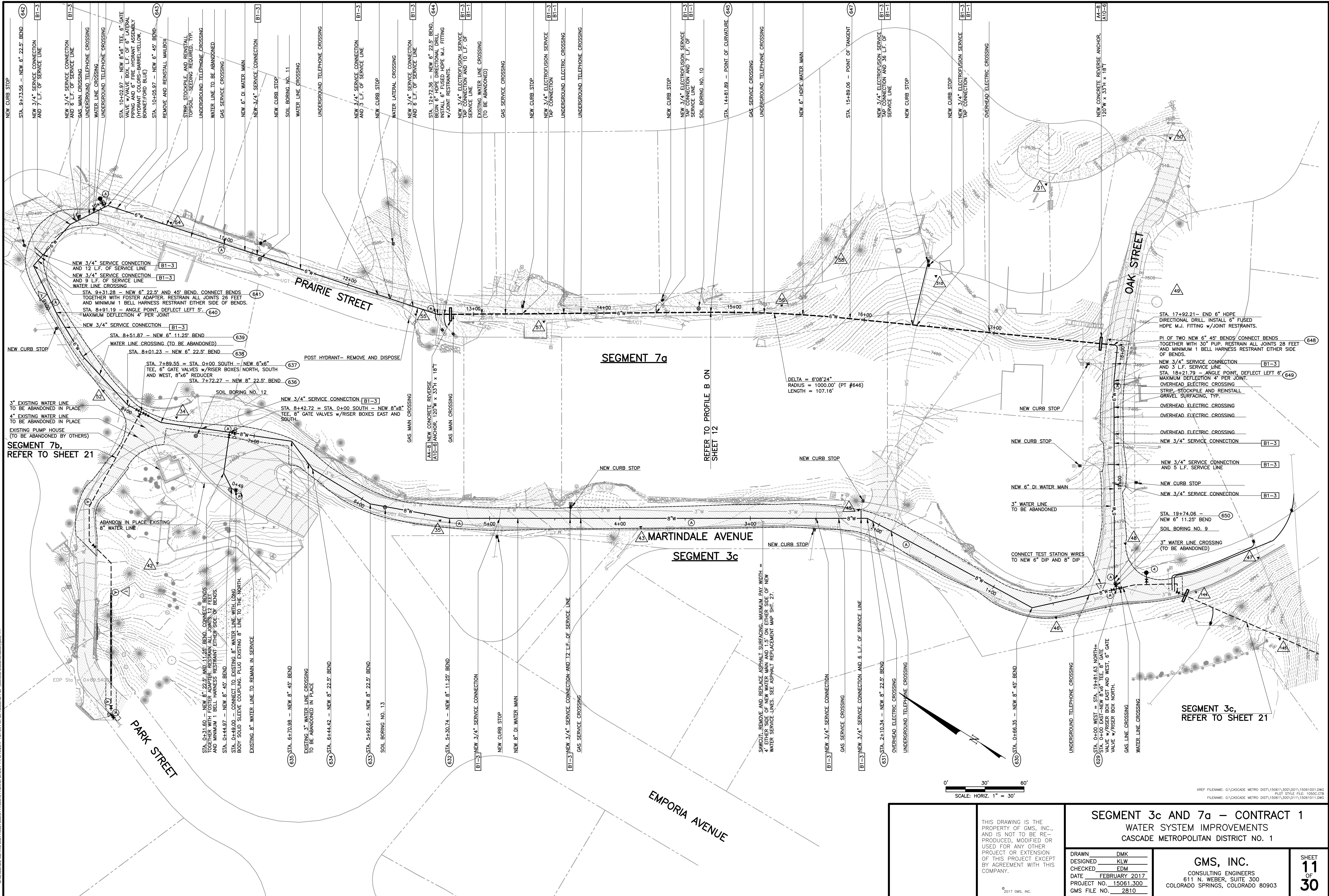
GMS, INC.
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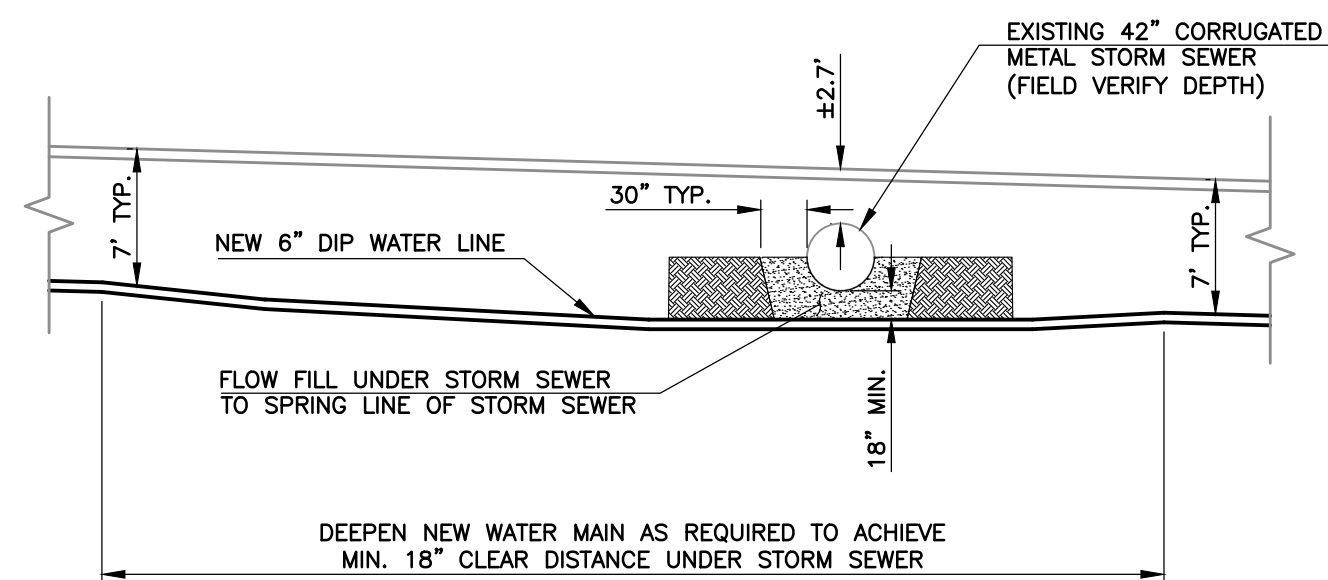
SHEET
10
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PLOT STYLE FILE: 15060.CTB
FILENAME: G:\CASCAD\METRO DIST\15061\300\010\15061010.DWG





NOTE: WATER MAIN SHALL BE CONSTRUCTED WITHOUT MECHANICAL JOINTS FOR 9 FEET ON EITHER SIDE OF THE CROSSING.

42" STORM SEWER CROSSING
SCALE: 1" = 10'

SEGMENT 8a

SEGMENT 8a

0' 30' 60'
SCALE: HORIZ. 1" = 30'

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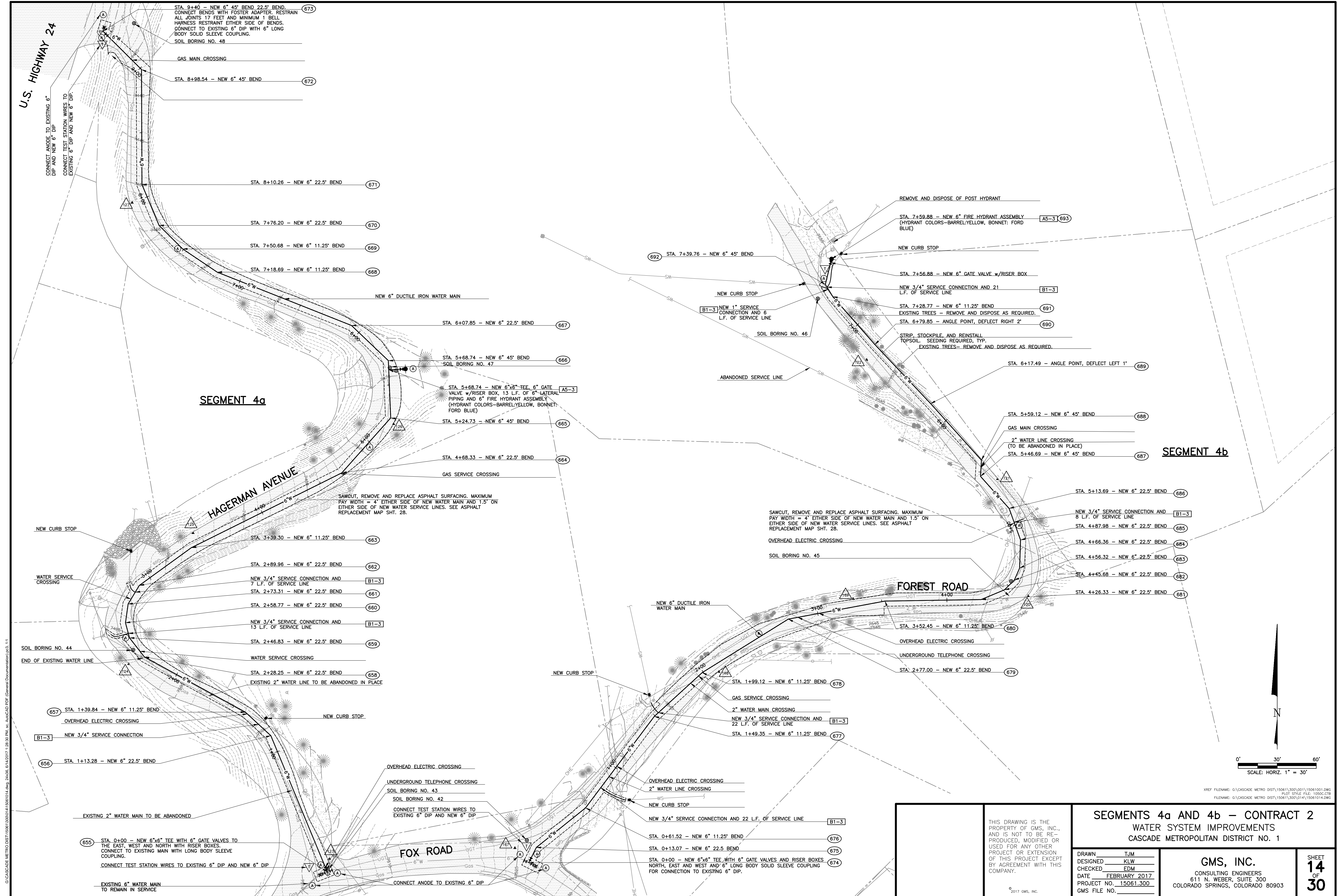
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DESIGNED: KIW
CHECKED: EDM
DATE: FEBRUARY 2017
PROJECT NO.: 15061.300
GMS FILE NO.:

SEGMENT 8a – CONTRACT 1
WATER SYSTEM IMPROVEMENTS
CASCADE METROPOLITAN DISTRICT NO. 1

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611 N. WEBER, SUITE 300
COLORADO SPRINGS, COLORADO 80903

SHEET
13
OF
30

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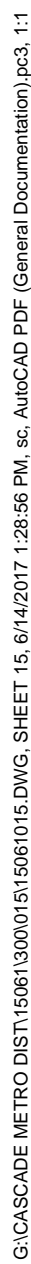
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SEGMENTS 4a AND 4b – CONTRACT 2
WATER SYSTEM IMPROVEMENTS
CASCAD METROPOLITAN DISTRICT NO. 1

DRAWN: TJM
DESIGNED: KLM
CHECKED: EDM
DATE: FEBRUARY 2017
PROJECT NO.: 15061.300
GMS FILE NO.:

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SHEET
14
OF
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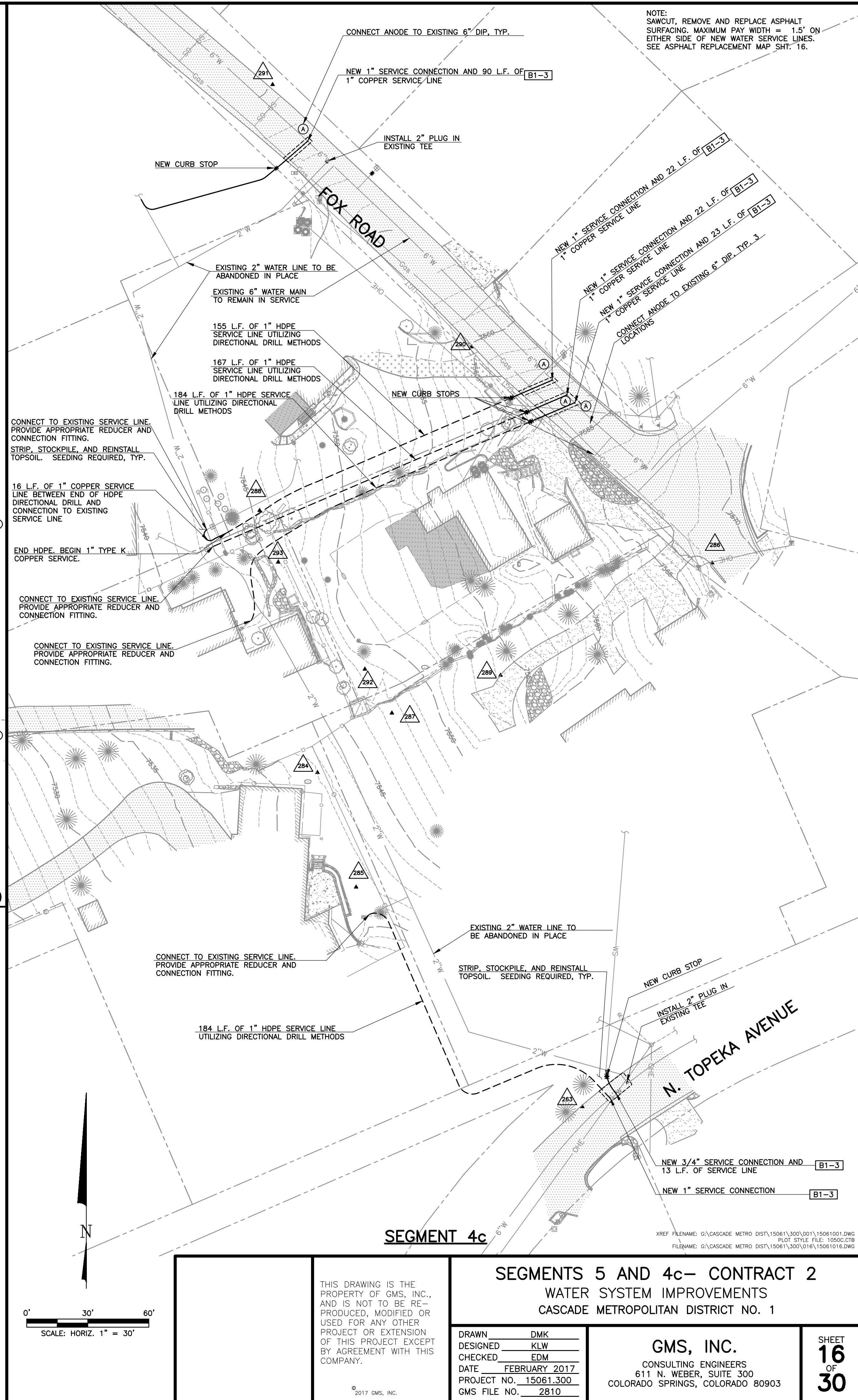
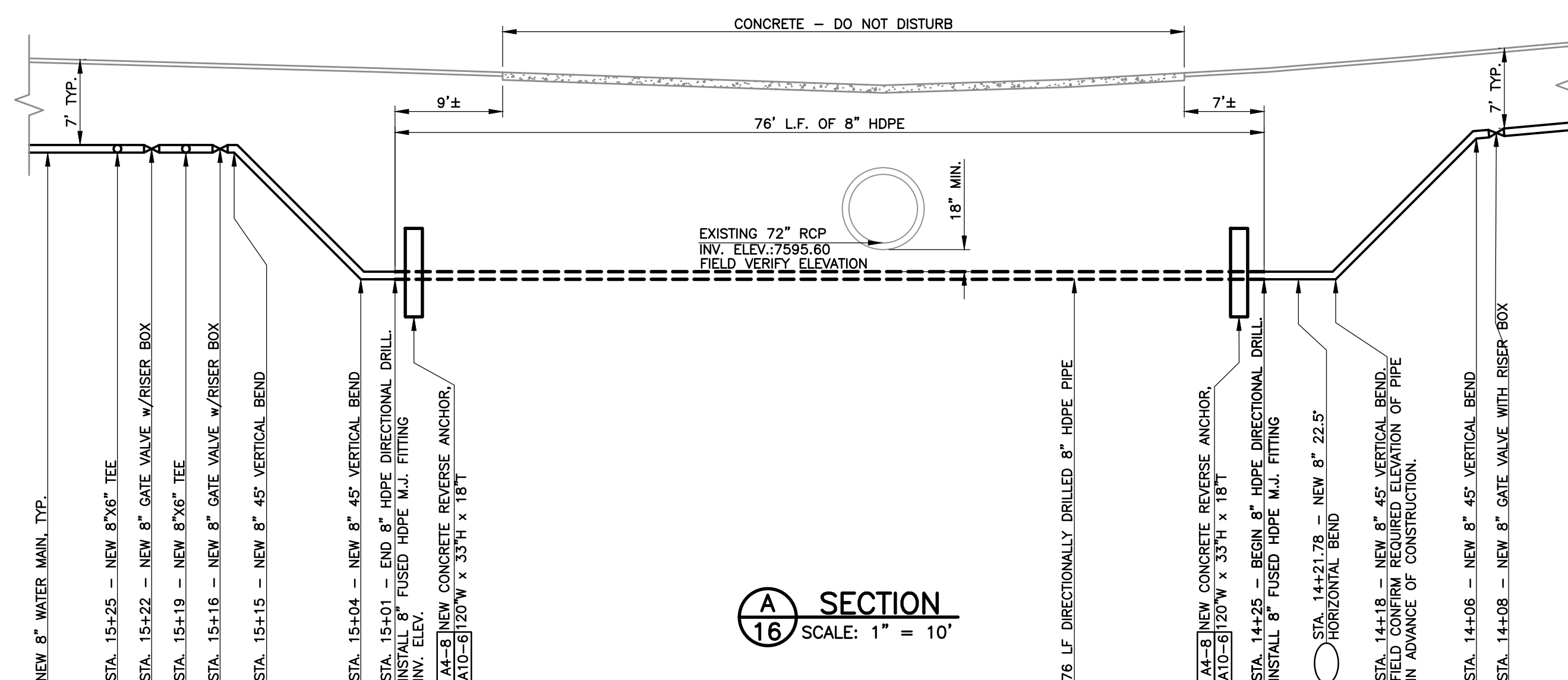
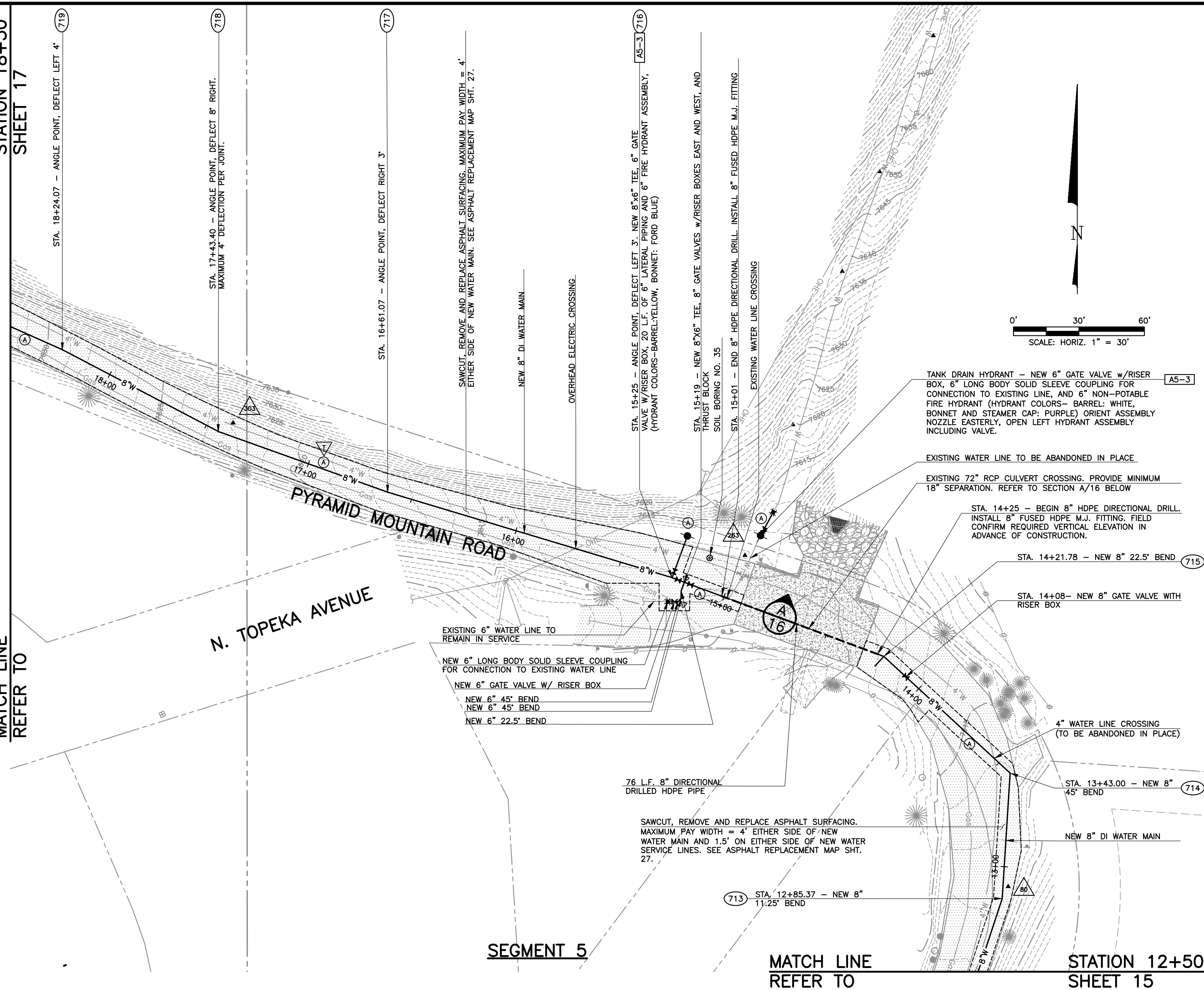
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DESIGNED	KLW
CHECKED	EDM
DATE	FEBRUARY 2017
PROJECT NO.	15061.300
GMS FILE NO.	2810

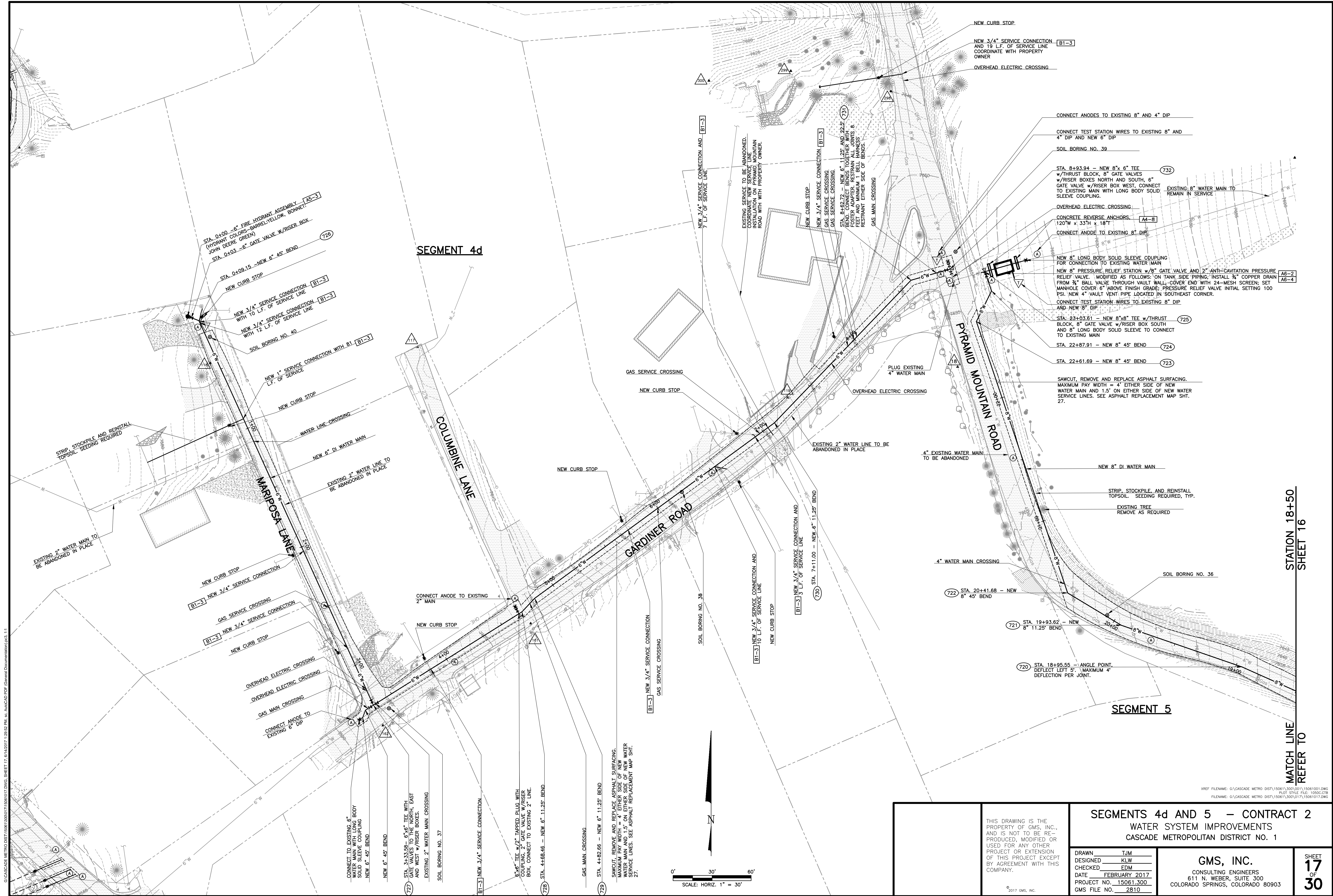
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CONSULTING ENGINEERS
611 N. WEBER, SUITE 300
COLORADO SPRINGS, COLORADO 80903

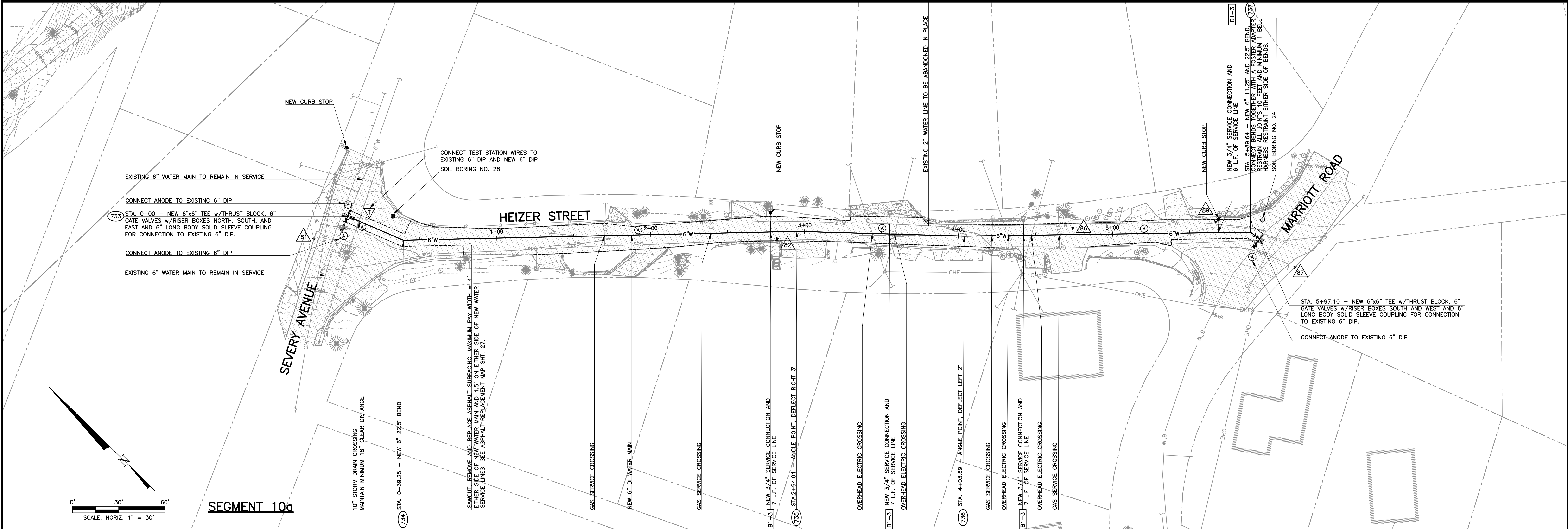
SHEET
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SEGMENT 5 – CONTRACT 2
WATER SYSTEM IMPROVEMENTS
CASCADE METROPOLITAN DISTRICT NO. 1

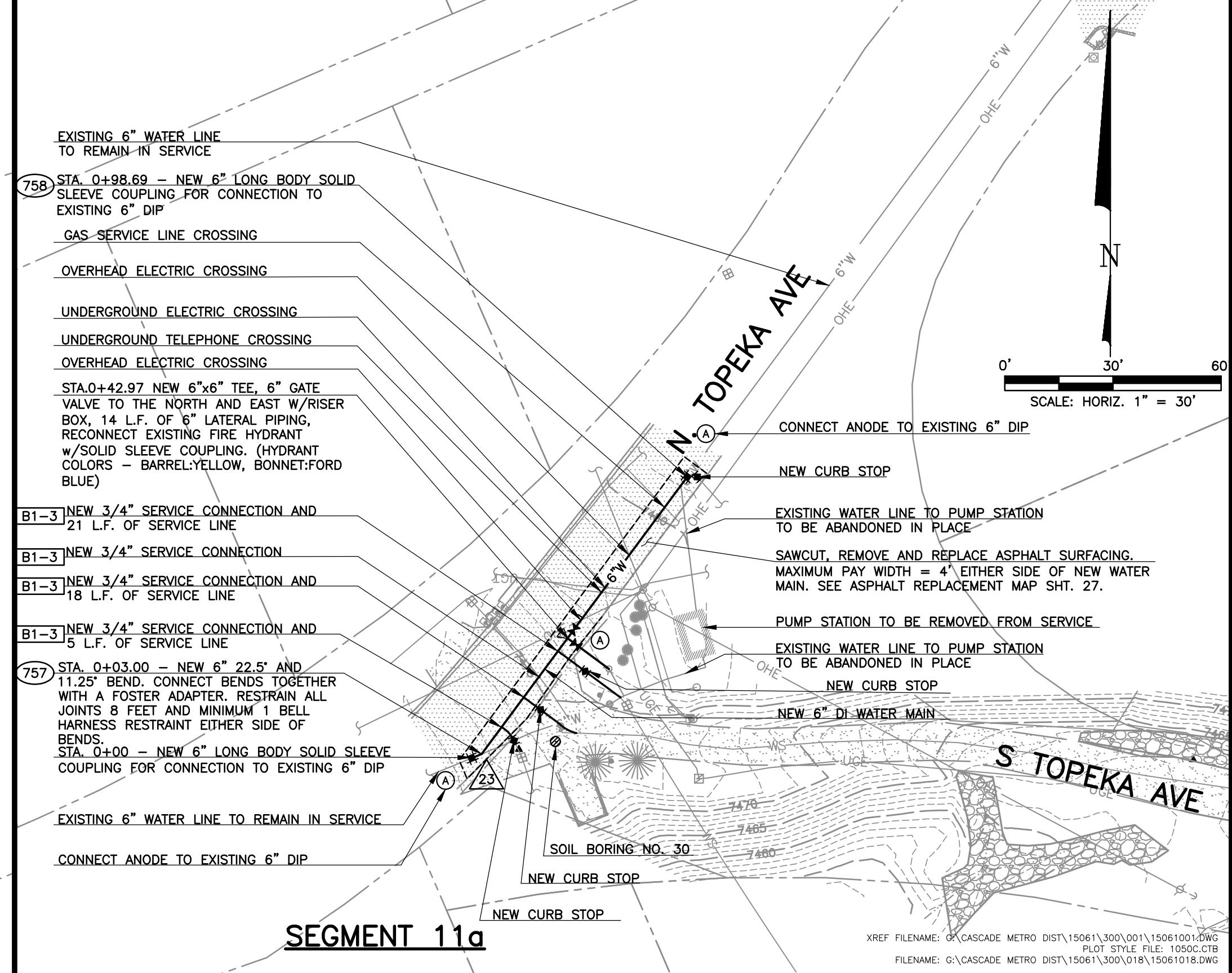
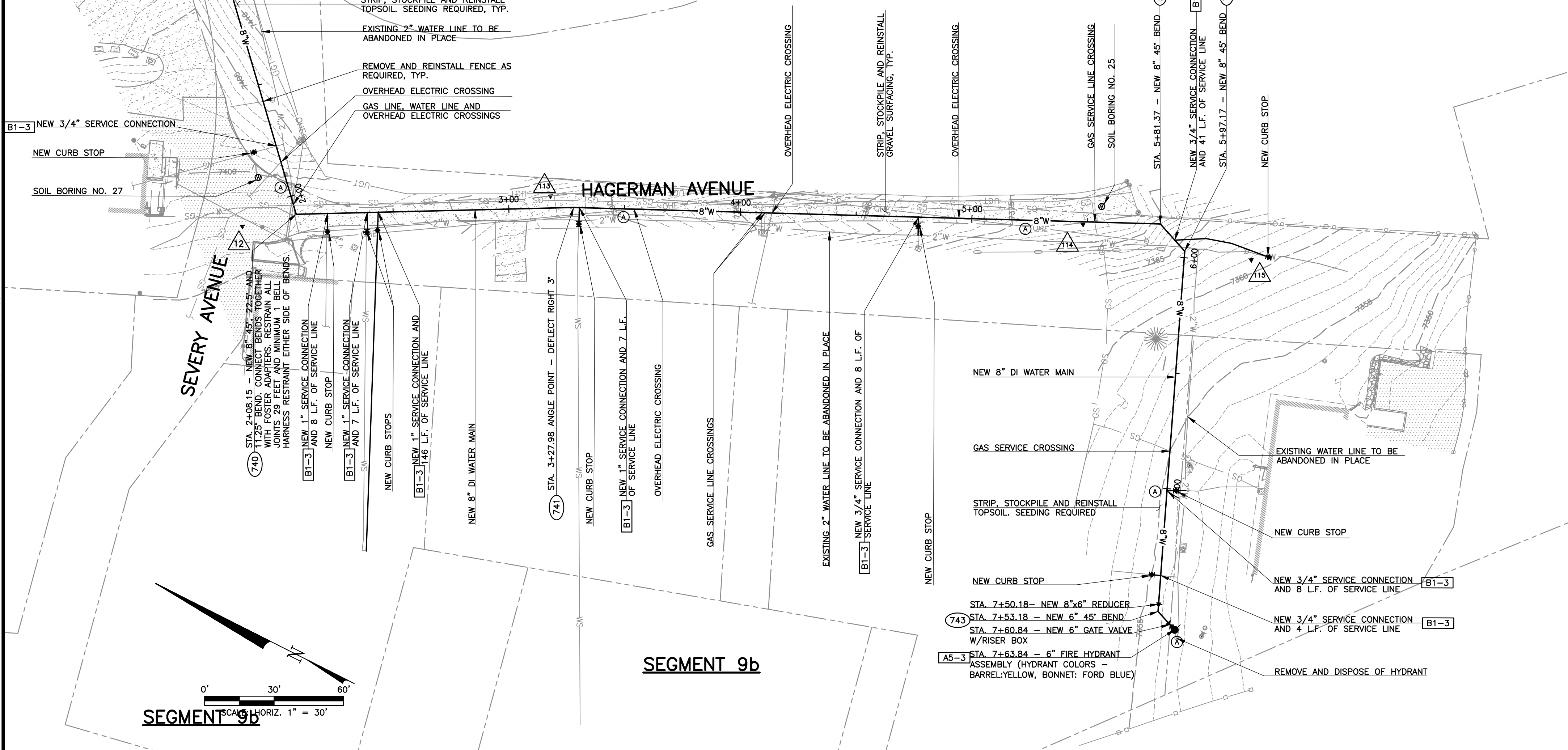


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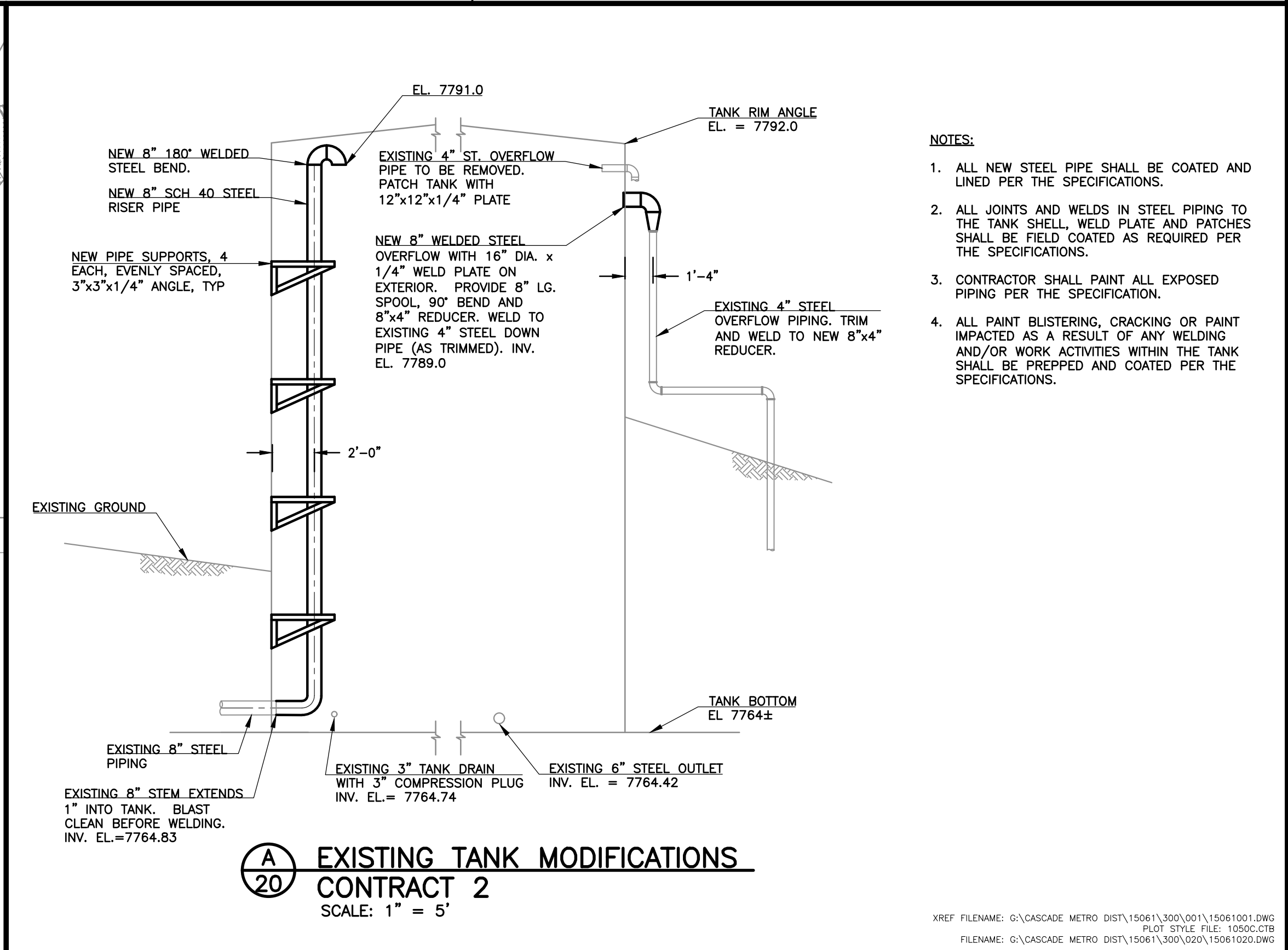
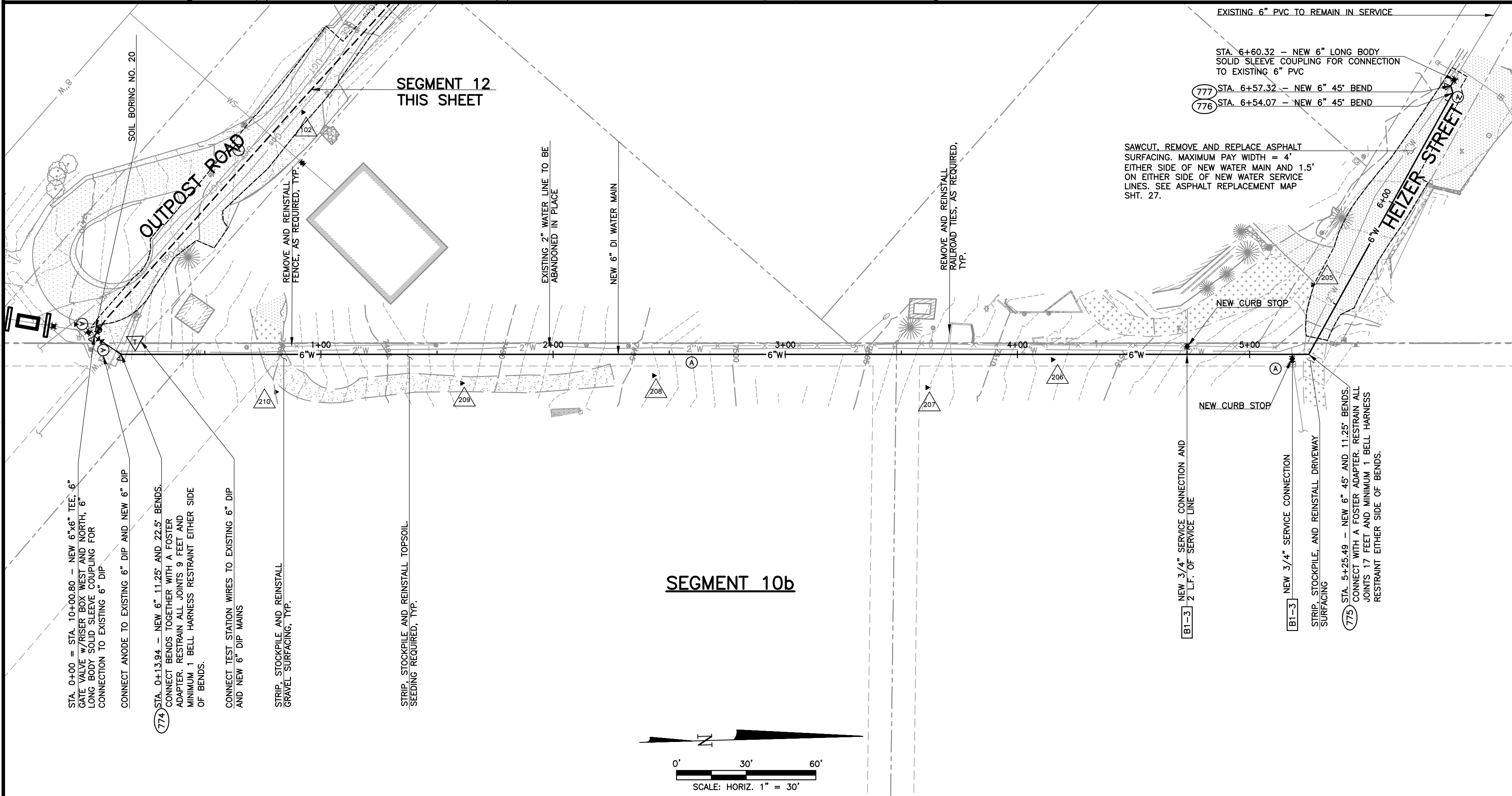
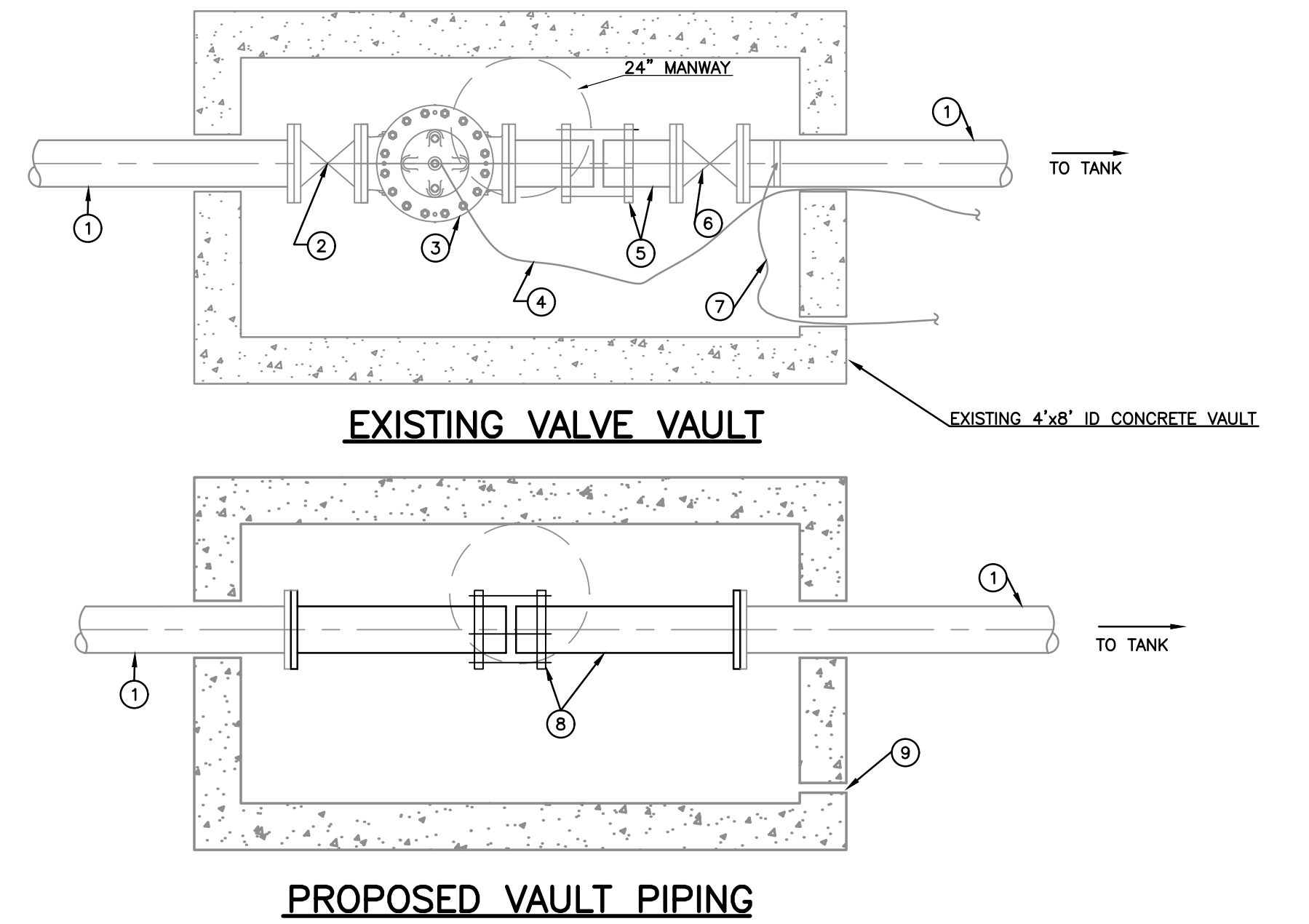
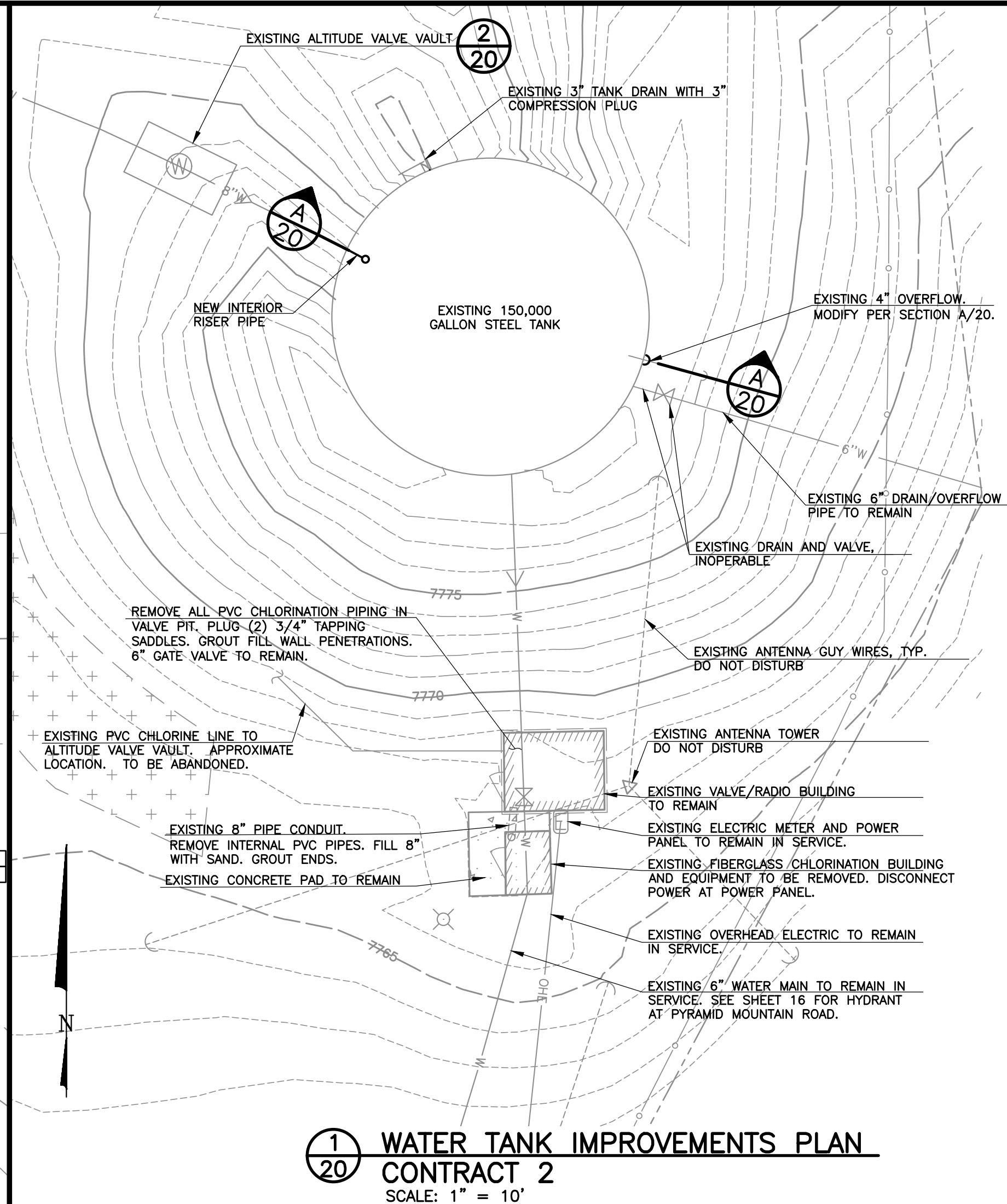
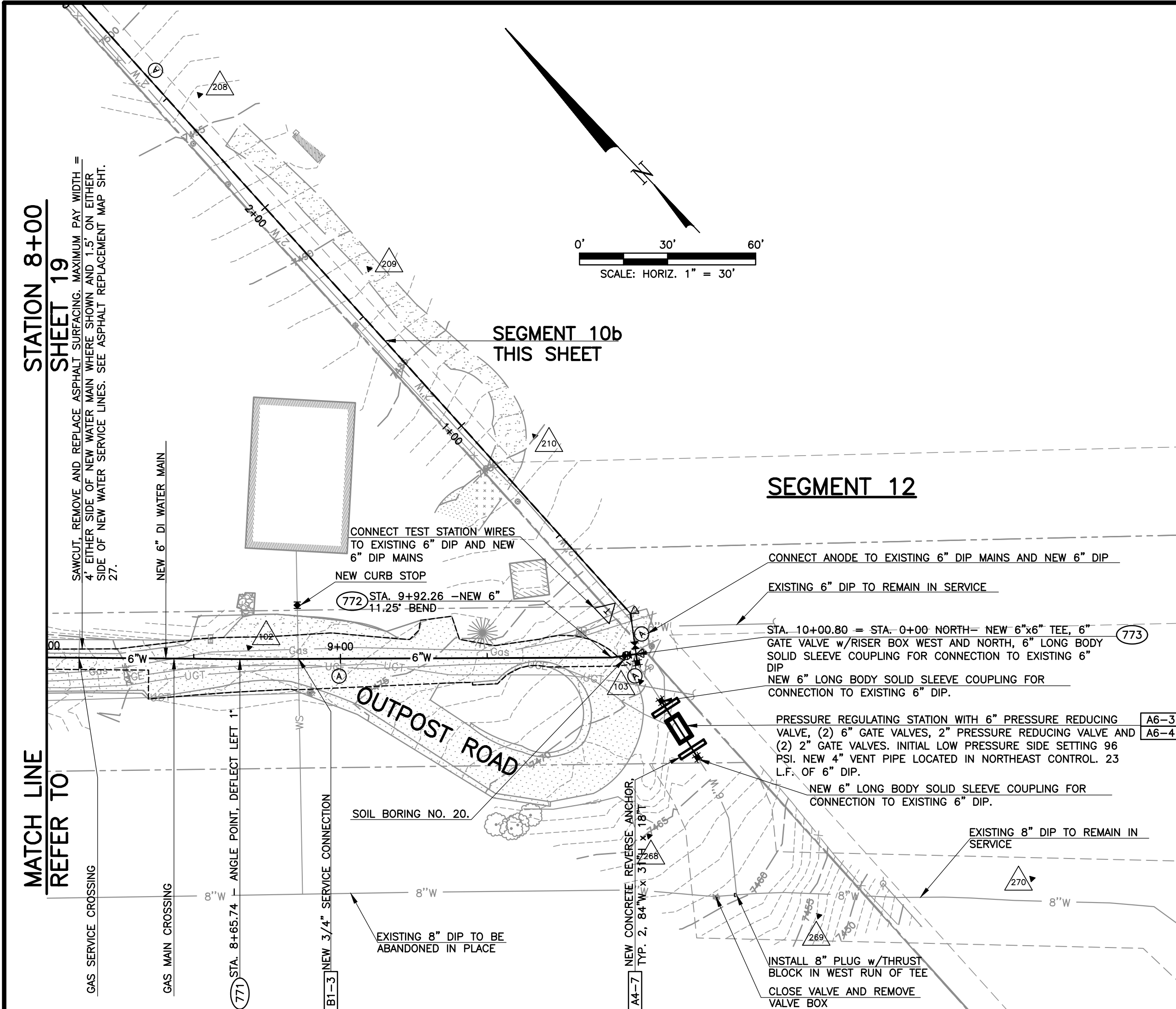




MATCH LINE
REFER TO
STATION 1+00
SHEET 19



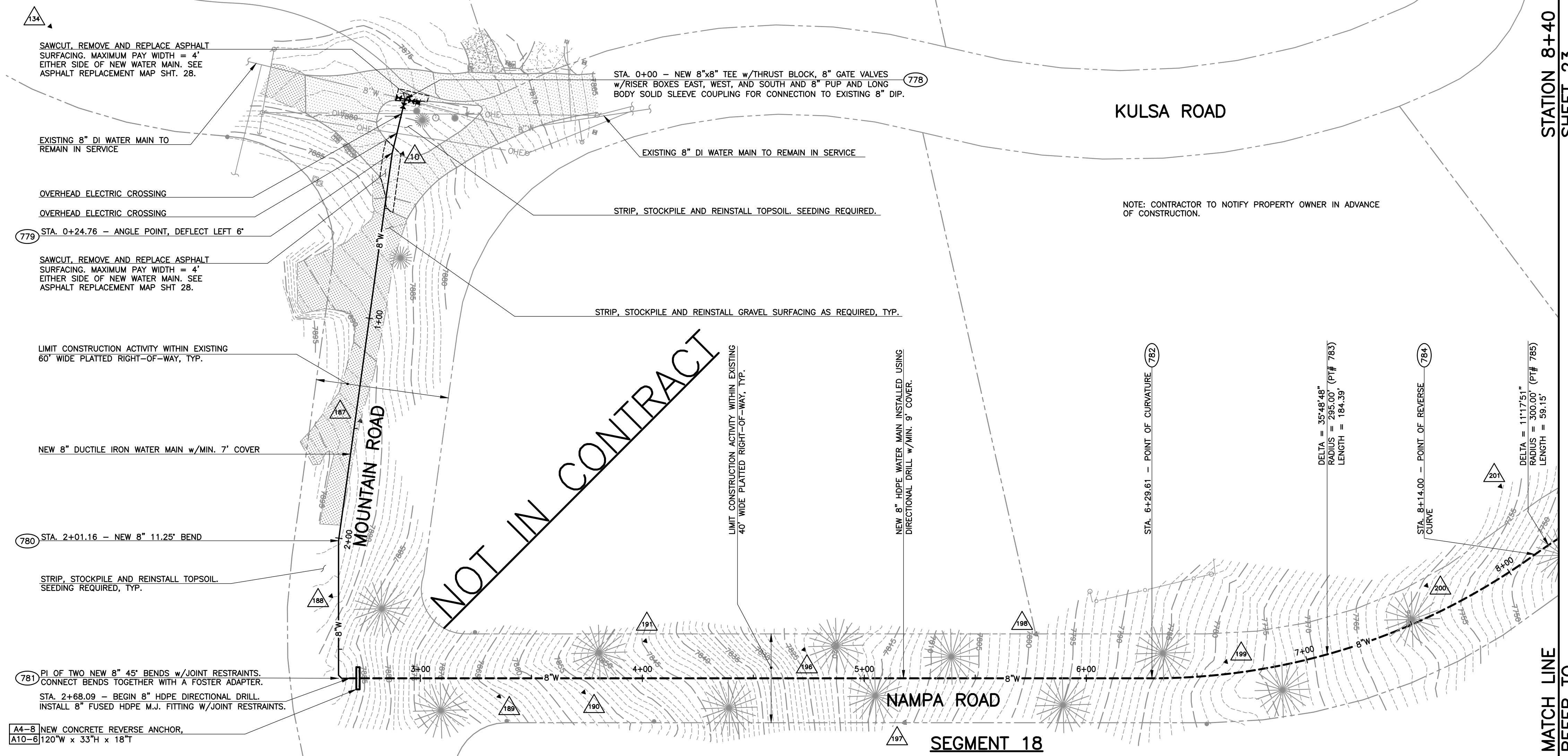
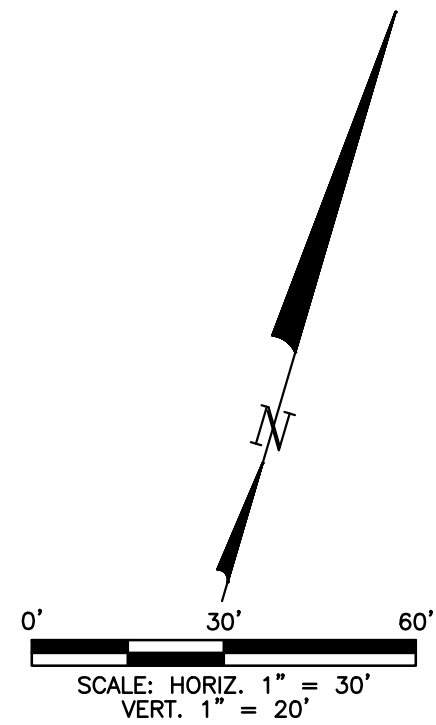
SEGMENTS 9b, 10a AND 11a – CONTRACT 2		
WATER SYSTEM IMPROVEMENTS		
CASCADE METROPOLITAN DISTRICT NO. 1		
DRAWN DESIGNED CHECKED DATE PROJECT NO. GMS FILE NO.	DMK KLW EDM FEBRUARY 2017 15061.300 2810	GMS, INC. CONSULTING ENGINEERS 611 N. WEBER, SUITE 300 COLORADO SPRINGS, COLORADO 80903
SHEET 18 OF 30		



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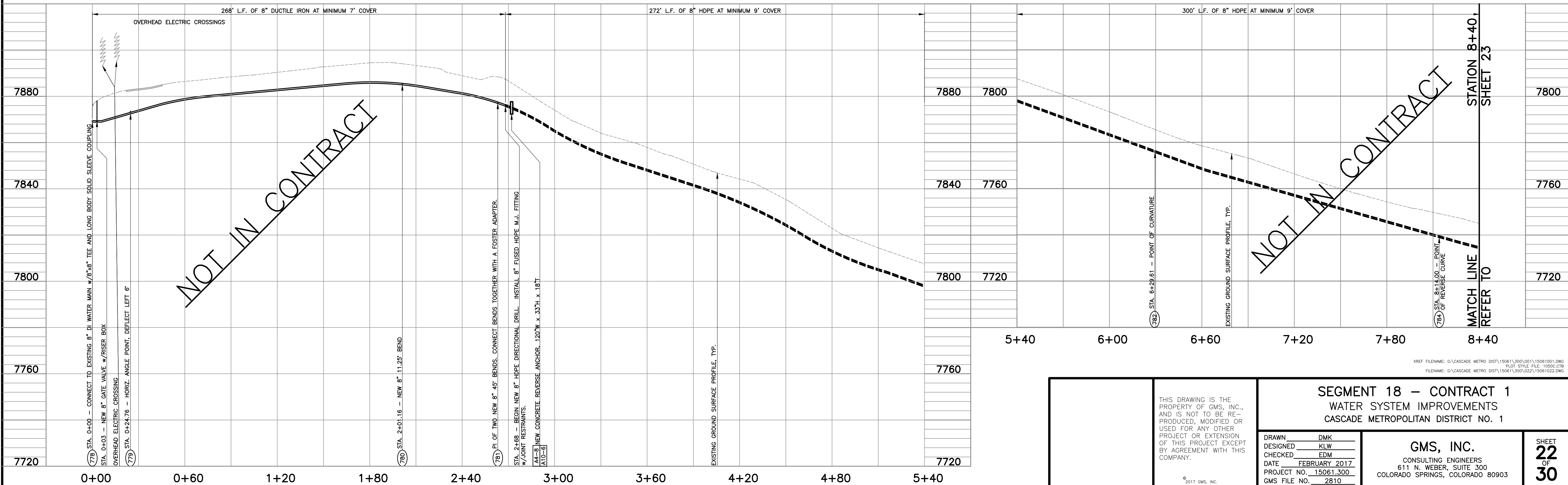
SEGMENTS 10b, 12 AND DETAILS - CONTRACT 2 WATER SYSTEM IMPROVEMENTS CASCADE METROPOLITAN DISTRICT NO. 1		SHEET 20 OF 30
DRAWN: DMK DESIGNED: KIW CHECKED: EDM DATE: FEBRUARY 2017 PROJECT NO.: 15061.300 GMS FILE NO.: 2810	GMS, INC. CONSULTING ENGINEERS 611 N. WEBER, SUITE 300 COLORADO SPRINGS, COLORADO 80903	

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STATION 8+40
SHEET 23

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REFER TO



STATION 8+40
SHEET 23

MATCH LINE
REFER TO

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SEGMENT 18 - CONTRACT 1
WATER SYSTEM IMPROVEMENTS
CASCADE METROPOLITAN DISTRICT NO. 1

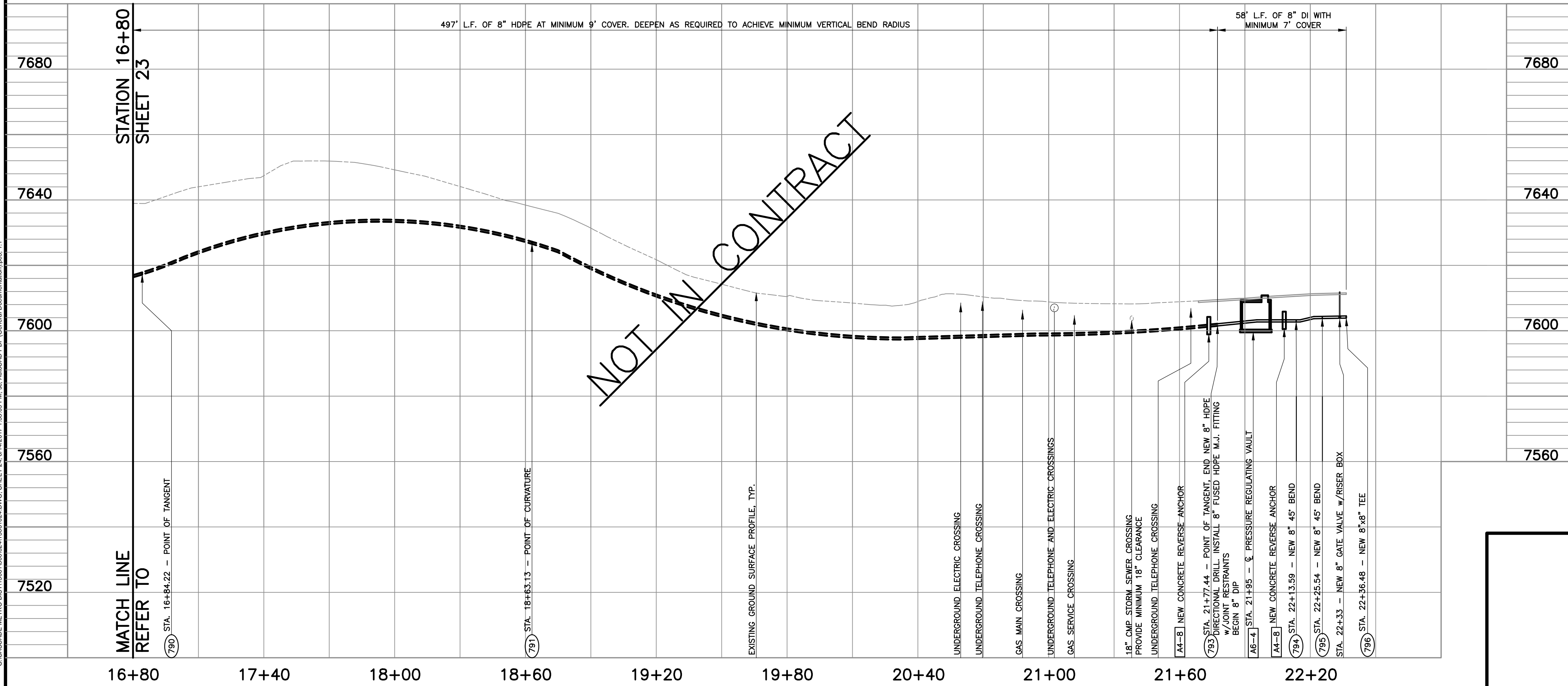
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DESIGNED: KIW
CHECKED: EDM
DATE: FEBRUARY 2017
PROJECT NO.: 15061.300
GMS FILE NO.: 2810

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CONSULTING ENGINEERS
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COLORADO SPRINGS, COLORADO 80903

SHEET
22
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SEGMENT 18 - CONTRACT 1
WATER SYSTEM IMPROVEMENTS
CASCADE METROPOLITAN DISTRICT NO. 1

DRAWN DMK
DESIGNED KLW
CHECKED EDM
DATE FEBRUARY 2017
PROJECT NO. 15061.300
GMS FILE NO. 2810

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COLORADO SPRINGS, COLORADO 80903

SHEET
24
OF
30



LEGEND

- 220 OUTDOOR METER w/INSTALLATION OF NEW CURB STOP — CONTRACTOR TO VERIFY IF A CURB STOP EXISTS AND IS OPERATIONAL. IF NEITHER CASE IS VALIDATED, INSTALL NEW 1" OR ¾" CURB STOP AS DIRECTED BY ENGINEER PER CSU STANDARD B1-3 IN LOCATION DIRECTED BY OWNER/ENGINEER.
- CSU TO FURNISH AND INSTALL: REPLACEMENT WATER METER WITH AMR WIRING; MODIFY EXISTING METER PIT LID OR FURNISH NEW LID w/PREDRILLED HOLE FOR AMR TRANSMITTER. CONTRACTOR IS REQUIRED TO PROVIDE COMPLETED LOCATION OF WATER SERVICE DATA CARD AND OUTSIDE METER PIT ASSEMBLY DATA INFORMATION SHEET FOR EACH METER PIT.
- CONTRACTOR TO REVIEW ACCEPTABILITY OF: TANDEM COPPER SETTER; INLET VALVE; PRESSURE REDUCING VALVE. IF ANY ARE FOUND DEFECTIVE, CONTRACT IS TO REPLACE AT THE SUPPLEMENTAL UNIT PRICE ESTABLISHED ON THE BID FORM.
- 992 INDOOR METER w/INSTALLATION OF NEW CURB STOP — CONTRACTOR TO VERIFY IF A CURB STOP EXISTS AND IS OPERATIONAL. IF NEITHER CASE IS VALIDATED, INSTALL NEW 1" OR ¾" CURB STOP AS DIRECTED BY ENGINEER PER CSU STANDARD B1-3 IN LOCATION DIRECTED BY OWNER/ENGINEER.
- CSU TO FURNISH AND INSTALL: REPLACEMENT WATER METER INSIDE THE HOME; AMR WIRING TO BUILDING EXTERIOR. AMR EXTERIOR UNIT. CONTRACTOR IS REQUIRED TO PROVIDE COMPLETED LOCATION OF WATER SERVICE DATA CARD AND INSIDE METER DATA INFORMATION SHEET.
- CONTRACTOR TO REVIEW ACCEPTABILITY OF: INLET AND OUTLET VALVES; PRESSURE REDUCING VALVE. IF ANY ARE FOUND DEFECTIVE, CONTRACTOR IS TO REPLACE AT THE SUPPLEMENTAL UNIT PRICE ESTABLISHED ON THE BID FORM.
- 220 OUTDOOR METER w/EXISTING CURB STOP — CONTRACTOR TO VERIFY IF CURB STOP IS OPERATIONAL. IF NOT, INSTALL NEW 1" OR ¾" CURB STOP AS DIRECTED BY ENGINEER PER CSU STANDARD B1-3 IN LOCATION DIRECTED BY OWNER/ENGINEER.
- CSU TO FURNISH AND INSTALL: REPLACEMENT WATER METER WITH AMR WIRING; MODIFY EXISTING METER PIT LID OR FURNISH NEW LID w/PREDRILLED HOLE FOR AMR TRANSMITTER. CONTRACTOR IS REQUIRED TO PROVIDE COMPLETED LOCATION OF WATER SERVICE DATA CARD AND OUTSIDE METER PIT ASSEMBLY DATA INFORMATION SHEET FOR EACH METER PIT.
- CONTRACTOR TO REVIEW ACCEPTABILITY OF: TANDEM COPPER SETTER; INLET VALVE; PRESSURE REDUCING VALVE. IF ANY ARE FOUND DEFECTIVE, CONTRACT IS TO REPLACE AT THE SUPPLEMENTAL UNIT PRICE ESTABLISHED ON THE BID FORM.
- 992 INDOOR METER w/EXISTING CURB STOP — CONTRACTOR TO VERIFY IF A CURB STOP IS OPERATIONAL. IF NOT, INSTALL NEW 1" OR ¾" CURB STOP AS DIRECTED BY ENGINEER PER CSU STANDARD B1-3 IN LOCATION DIRECTED BY OWNER/ENGINEER.
- CSU TO FURNISH AND INSTALL: REPLACEMENT WATER METER INSIDE THE HOME; AMR WIRING TO BUILDING EXTERIOR. AMR EXTERIOR UNIT. CONTRACTOR IS REQUIRED TO PROVIDE COMPLETED LOCATION OF WATER SERVICE DATA CARD AND INSIDE METER DATA INFORMATION SHEET.
- CONTRACTOR TO REVIEW ACCEPTABILITY OF: INLET AND OUTLET VALVES; PRESSURE REDUCING VALVE. IF ANY ARE FOUND DEFECTIVE, CONTRACTOR IS TO REPLACE AT THE SUPPLEMENTAL UNIT PRICE ESTABLISHED ON THE BID FORM.

WATER SERVICE DATA MINIMUM REQUIRED IMPROVEMENTS

1. SERVICE DATA CARDS:
- A. ALL ADDRESSES SERVED BY THE CASCADE METROPOLITAN DISTRICT NO. 1 (CMD) WATER SYSTEM MUST HAVE A COMPLETED SERVICE LINE CARD BY THE CONTRACTOR. THE SERVICE LINE CARD SHALL PROVIDE THE METER PIT LOCATION, CURB STOP LOCATION, SERVICE LINE SIZE AND TYPE AND A SMALL MAP WITH ALL AVAILABLE DIMENSIONS. AN EXAMPLE SERVICE LINE CARD IS INCLUDED IN THE SPECIFICATIONS.
- B. FOR ALL OUTSIDE METER PIT ASSEMBLIES, THE CONTRACTOR SHALL COMPIL AND SUBMIT TO THE ENGINEER THE OUTSIDE METER PIT ASSEMBLY DATA INFORMATION SHEET.
- C. FOR ALL INSIDE METER INSTALLATIONS, THE CONTRACTOR SHALL COMPIL AND SUBMIT TO THE ENGINEER THE INSIDE METER DATA INFORMATION SHEET.
- D. THE COST OF COMPIING THE REQUIRED METER DATA WILL BE PAID FOR AT THE UNIT PRICE ESTABLISHED ON THE BID FORM.
2. CURB STOPS:
- THE CONTRACTOR SHALL LOCATE CURB STOPS FOR ALL SERVICE LINES. IF A CURB STOP DOES NOT EXIST, THE CONTRACTOR SHALL INSTALL ONE FOR THAT SERVICE LINE. ALL CURB STOPS MUST BE OPERABLE. NEW CURB STOPS WILL BE PAID FOR AT THE UNIT PRICE ESTABLISHED ON THE BID FORM.
3. METER PITS:
- A. METER PIT LOCATIONS SHALL BE IDENTIFIED ON THE SERVICE CARDS COMPILED BY THE CONTRACTOR WITH LOCATION AND DIMENSIONS, PIT SIZE, LID SIZE, METER SETTER TYPE, TYPE OF PIT (MANUFACTURED/ RING, BLOCK/BRICK, FROST PROOF, ETC.), AND METER WITH CSU ESTABLISHED METER MANHOLE.
- B. THE CONTRACTOR SHALL EXERCISE INLET AND OUTLET VALVES ON ALL METER LOOPS. VALVES FOUND TO BE INOPERABLE SHALL BE REPLACED AT THE SUPPLEMENTAL UNIT PRICE CONTAINED ON THE BID FORM.
- C. THE CONTRACTOR SHALL INSPECT THE TANDEM COPPER SETTER. ANY SETTER FOUND TO BE IN AN UNACCEPTABLE CONDITION SHALL BE REPLACE BY THE CONTRACTOR AT THE SUPPLEMENTAL UNIT PRICE CONTAINED ON THE BID FORM.
- D. THE CONTRACTOR SHALL INSPECT ALL PRESSURE REDUCING VALVES. PRESSURE REDUCING VALVES FOUND TO BE INOPERABLE OR IN POOR CONDITION SHALL BE REPLACED AT THE SUPPLEMENTAL UNIT PRICE CONTAINED IN THE BID FORM.
4. INDOOR METERS:
- A. SERVICE CARDS SHALL IDENTIFY THE LOCATION OF THE METER AND THE CSU ESTABLISHED METER NUMBER.
- B. THE CONTRACTOR SHALL EXERCISE THE INLET AND OUTLET VALVES ON THE METER LOOP. VALVES FOUND TO BE INOPERABLE SHALL BE REPLACED AT THE SUPPLEMENTAL UNIT PRICE CONTAINED ON THE BID FORM.
- C. A GROUNDING STRAP SHALL BE INSTALLED ON ALL METER LOOPS WHERE NONE CURRENTLY EXIST. THE WORK WILL BE PAID AT THE SUPPLEMENTAL UNIT PRICE CONTAINED IN THE BID FORM.
- D. ALL SERVICE CARDS NEED TO IDENTIFY IF A DRAIN EXISTS INSIDE THE BUILDING NEAR THE METER.
- E. CSU WILL INSTALL AMR WIRES ON ALL INDOOR METERS RUNNING TO THE EXTERIOR TO ALLOW FOR CSU'S INSTALLATION OF AMR DEVICE.
- F. THE CONTRACTOR SHALL INSPECT ALL PRESSURE REDUCING VALVES. PRESSURE REDUCING VALVES FOUND TO BE INOPERABLE OR IN POOR CONDITION SHALL BE REPLACED AT THE SUPPLEMENTAL UNIT PRICE CONTAINED IN THE BID FORM.

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METERS AND CURB STOPS MAP 1
WATER SYSTEM IMPROVEMENTS
CASCADE METROPOLITAN DISTRICT NO. 1

DRAWN TJM/KLW
DESIGNED KLW
CHECKED EDM
DATE DECEMBER 2016
PROJECT NO. 15061.300
GMS FILE NO. 2810

GMS, INC.
CONSULTING ENGINEERS
611 N. WEBER, SUITE 300
COLORADO SPRINGS, COLORADO 80903

SHEET
25
OF
30



LEGEND

- 220** OUTDOOR METER w/INSTALLATION OF NEW CURB STOP – CONTRACTOR TO VERIFY IF A CURB STOP EXISTS AND IS OPERATIONAL. IF NEITHER CASE IS VALIDATED, INSTALL NEW 1" OR ¾" CURB STOP AS DIRECTED BY ENGINEER PER CSU STANDARD B1-3 IN LOCATION DIRECTED BY OWNER/ENGINEER.
- CSU TO FURNISH AND INSTALL: REPLACEMENT WATER METER WITH AMR WIRING; MODIFY EXISTING METER PIT LID OR FURNISH NEW LID w/PREDRILLED HOLE FOR AMR TRANSMITTER. CONTRACTOR IS REQUIRED TO PROVIDE COMPLETED LOCATION OF WATER SERVICE DATA CARD AND OUTSIDE METER PIT ASSEMBLY DATA INFORMATION SHEET FOR EACH METER PIT.
- CONTRACTOR TO REVIEW ACCEPTABILITY OF: TANDEM COPPER SETTER; INLET VALVE; PRESSURE REDUCING VALVE. IF ANY ARE FOUND DEFECTIVE, CONTRACT IS TO REPLACE AT THE SUPPLEMENTAL UNIT PRICE ESTABLISHED ON THE BID FORM.
- 992** INDOOR METER w/INSTALLATION OF NEW CURB STOP – CONTRACTOR TO VERIFY IF A CURB STOP EXISTS AND IS OPERATIONAL. IF NEITHER CASE IS VALIDATED, INSTALL NEW 1" OR ¾" CURB STOP AS DIRECTED BY ENGINEER PER CSU STANDARD B1-3 IN LOCATION DIRECTED BY OWNER/ENGINEER.
- CSU TO FURNISH AND INSTALL: REPLACEMENT WATER METER INSIDE THE HOME; AMR WIRING TO BUILDING EXTERIOR. AMR EXTERIOR UNIT. CONTRACTOR IS REQUIRED TO PROVIDE COMPLETED LOCATION OF WATER SERVICE DATA CARD AND INSIDE METER DATA INFORMATION SHEET.
- CONTRACTOR TO REVIEW ACCEPTABILITY OF: INLET AND OUTLET VALVES; PRESSURE REDUCING VALVE. IF ANY ARE FOUND DEFECTIVE, CONTRACTOR IS TO REPLACE AT THE SUPPLEMENTAL UNIT PRICE ESTABLISHED ON THE BID FORM.
- 220** OUTDOOR METER w/EXISTING CURB STOP – CONTRACTOR TO VERIFY IF CURB STOP IS OPERATIONAL. IF NOT, INSTALL NEW 1" OR ¾" CURB STOP AS DIRECTED BY ENGINEER PER CSU STANDARD B1-3 IN LOCATION DIRECTED BY OWNER/ENGINEER.
- CSU TO FURNISH AND INSTALL: REPLACEMENT WATER METER WITH AMR WIRING; MODIFY EXISTING METER PIT LID OR FURNISH NEW LID w/PREDRILLED HOLE FOR AMR TRANSMITTER. CONTRACTOR IS REQUIRED TO PROVIDE COMPLETED LOCATION OF WATER SERVICE DATA CARD AND OUTSIDE METER PIT ASSEMBLY DATA INFORMATION SHEET FOR EACH METER PIT.
- CONTRACTOR TO REVIEW ACCEPTABILITY OF: TANDEM COPPER SETTER; INLET VALVE; PRESSURE REDUCING VALVE. IF ANY ARE FOUND DEFECTIVE, CONTRACT IS TO REPLACE AT THE SUPPLEMENTAL UNIT PRICE ESTABLISHED ON THE BID FORM.
- 992** INDOOR METER w/EXISTING CURB STOP – CONTRACTOR TO VERIFY IF A CURB STOP IS OPERATIONAL. IF NOT, INSTALL NEW 1" OR ¾" CURB STOP AS DIRECTED BY ENGINEER PER CSU STANDARD B1-3 IN LOCATION DIRECTED BY OWNER/ENGINEER.
- CSU TO FURNISH AND INSTALL: REPLACEMENT WATER METER INSIDE THE HOME; AMR WIRING TO BUILDING EXTERIOR. AMR EXTERIOR UNIT. CONTRACTOR IS REQUIRED TO PROVIDE COMPLETED LOCATION OF WATER SERVICE DATA CARD AND INSIDE METER DATA INFORMATION SHEET.
- CONTRACTOR TO REVIEW ACCEPTABILITY OF: INLET AND OUTLET VALVES; PRESSURE REDUCING VALVE. IF ANY ARE FOUND DEFECTIVE, CONTRACTOR IS TO REPLACE AT THE SUPPLEMENTAL UNIT PRICE ESTABLISHED ON THE BID FORM.

WATER SERVICE DATA MINIMUM REQUIRED IMPROVEMENTS

- 1. SERVICE DATA CARDS:**
- A. ALL ADDRESSES SERVED BY THE CASCADE METROPOLITAN DISTRICT NO. 1 (CMD) WATER SYSTEM MUST HAVE A COMPLETED SERVICE DATA CARD BY THE CONTRACTOR. THE SERVICE DATA CARD SHALL PROVIDE THE METER PIT LOCATION, CURB STOP LOCATION, SERVICE LINE SIZE AND TYPE AND A SMALL MAP WITH ALL AVAILABLE DIMENSIONS. AN EXAMPLE SERVICE DATA CARD IS INCLUDED IN THE SPECIFICATIONS.
- B. FOR ALL OUTSIDE METER PIT ASSEMBLIES, THE CONTRACTOR SHALL COMPIL AND SUBMIT TO THE ENGINEER THE OUTSIDE METER PIT ASSEMBLY DATA INFORMATION SHEET.
- C. FOR ALL INSIDE METER INSTALLATIONS, THE CONTRACTOR SHALL COMPIL AND SUBMIT TO THE ENGINEER THE INSIDE METER DATA INFORMATION SHEET.
- D. THE COST OF COMPILING THE REQUIRED METER DATA WILL BE PAID FOR AT THE UNIT PRICE ESTABLISHED ON THE BID FORM.
- 2. CURB STOPS:**
- THE CONTRACTOR SHALL LOCATE CURB STOPS FOR ALL SERVICE LINES. IF A CURB STOP DOES NOT EXIST, THE CONTRACTOR SHALL INSTALL ONE FOR THAT SERVICE LINE. ALL CURB STOPS MUST BE OPERABLE. NEW CURB STOPS WILL BE PAID FOR AT THE UNIT PRICE ESTABLISHED ON THE BID FORM.
- 3. METER PITS:**
- A. METER PIT LOCATIONS SHALL BE IDENTIFIED ON THE SERVICE CARDS COMPILED BY THE CONTRACTOR WITH LOCATION AND DIMENSIONS, PIT SIZE, LID SIZE, METER SETTER TYPE, TYPE OF PIT (MANUFACTURED/ RING, BLOCK/BRICK, FROST PROOF, ETC.), AND METER WITH CSU ESTABLISHED METER NUMBER.
- B. THE CONTRACTOR SHALL EXERCISE INLET AND OUTLET VALVES ON ALL METER LOOPS. VALVES FOUND TO BE INOPERABLE SHALL BE REPLACED AT THE SUPPLEMENTAL UNIT PRICE CONTAINED ON THE BID FORM.
- C. THE CONTRACTOR SHALL INSPECT THE TANDEM COPPER SETTER. ANY SETTER FOUND TO BE IN AN UNACCEPTABLE CONDITION SHALL BE REPLACED BY THE CONTRACTOR AT THE SUPPLEMENTAL UNIT PRICE CONTAINED ON THE BID FORM.
- D. THE CONTRACTOR SHALL INSPECT ALL PRESSURE REDUCING VALVES. PRESSURE REDUCING VALVES FOUND TO BE INOPERABLE OR IN POOR CONDITION SHALL BE REPLACED AT THE SUPPLEMENTAL UNIT PRICE CONTAINED IN THE BID FORM.
- 4. INDOOR METERS:**
- A. SERVICE CARDS SHALL IDENTIFY THE LOCATION OF THE METER AND THE CSU ESTABLISHED METER NUMBER.
- B. THE CONTRACTOR SHALL EXERCISE THE INLET AND OUTLET VALVES ON THE METER LOOP. VALVES FOUND TO BE INOPERABLE SHALL BE REPLACED AT THE SUPPLEMENTAL UNIT PRICE CONTAINED ON THE BID FORM.
- C. A GROUNDING STRAP SHALL BE INSTALLED ON ALL METER LOOPS WHERE NONE CURRENTLY EXIST. THE WORK WILL BE PAID AT THE SUPPLEMENTAL UNIT PRICE CONTAINED IN THE BID FORM.
- D. ALL SERVICE CARDS NEED TO IDENTIFY IF A DRAIN EXISTS INSIDE THE BUILDING NEAR THE METER.
- E. CSU WILL INSTALL AMR WIRES ON ALL INDOOR METERS RUNNING TO THE EXTERIOR TO ALLOW FOR CSU'S INSTALLATION OF AMR DEVICE.
- F. THE CONTRACTOR SHALL INSPECT ALL PRESSURE REDUCING VALVES. PRESSURE REDUCING VALVES FOUND TO BE INOPERABLE OR IN POOR CONDITION SHALL BE REPLACED AT THE SUPPLEMENTAL UNIT PRICE CONTAINED IN THE BID FORM.

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METERS AND CURB STOPS MAP 2
WATER SYSTEM IMPROVEMENTS
CASCADE METROPOLITAN DISTRICT NO. 1

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CONTRACT 1											
AREA NO.	DESCRIPTION	EXISTING ASPHALT DEPTH WHERE KNOWN (IN)	NEW 3" ASPHALT PATCH (SY)	NEW 4" ASPHALT PATCH (SY)	NEW 6" ASPHALT PATCH (SY)	NEW 3" ASPHALT STREET REPLACEMENT (SY)	NEW 4" ASPHALT STREET REPLACEMENT (SY)	NEW CHIP SEAL STREET SURFACING (SY)	NEW 6" HIGH ASPHALT CURB (LF)	NEW SOLID WHITE STRIPE (LF)	NEW DOUBLE YELLOW STRIPE (LF)
1	UTE PASS AVENUE SOUTH OF EMPORIA AVENUE	4		1992						1760	360
2	OAK STREET, PRAIRIE STREET, MARTINDALE AVENUE AND PARK STREET	4.5							2190		
3	MARTINDALE AVENUE AND POPLAR STREET	3					2366				
4	FOUNTAIN AVENUE AND CHIPITA PARK ROAD NORTH OF EMPORIA AVENUE						1985	300	1030		
5	PIKES PEAK HIGHWAY AND PIKE ROAD	10			2159			7540	10	5400	2700
6	CHIPITA PARK ROAD (NORTH END)	4		717				2140	125	1600	800
7	ASPENGLLOW LANE CUL-DE-SAC	10			778			2360		1800	900
8	KULSA ROAD	4.5		120							
9	PIKES PEAK HIGHWAY TOLL GATE		27					500	20		
			25								
	TOTALS		52	2,829	2,937	0	4,351	12,840	3,375	10,560	4,760

CONTRACT 2											
AREA NO.	DESCRIPTION	EXISTING ASPHALT DEPTH WHERE KNOWN (IN)	NEW 3" ASPHALT PATCH (SY)	NEW 4" ASPHALT PATCH (SY)	NEW 6" ASPHALT PATCH (SY)	NEW 3" ASPHALT STREET SURFACE (SY)	NEW 4" ASPHALT STREET SURFACE (SY)	NEW CHIP SEAL STREET SURFACING (SY)	NEW 6" HIGH ASPHALT CURB (LF)	NEW SOLID WHITE STRIPE (LF)	NEW DOUBLE YELLOW STRIPE (LF)
10	OUTPOST ROAD AND BLUFF ROAD	2	1332					2280	940		
11	MARRIOTT ROAD	3	1525					3760	770		
12	HEIZER STREET NORTH OF MARRIOTT ROAD	2	979						20		
13	HEIZER STREET SOUTH OF MARRIOTT ROAD		235						100		
14	NORTH TOPEKA AND SOUTH TOPEKA AVENUE		103					530	120		
15	NORTH TOPEKA AVENUE WEST OF HAGERMAN AVENUE	4	12						10		
16	FOX ROAD SERVICE LINES	4	27					400			
17	PYRAMID MOUNTAIN ROAD AND SEVERY AVENUE BETWEEN SOUTH TOPEKA AVENUE AND MARRIOTT ROAD										
		1.5	1429					4500	75		
18	PYRAMID MOUNTAIN ROAD BETWEEN SOUTH TOPEKA AVENUE AND GARDINER ROAD	4				140	1126	780	485		
19	GARDINER ROAD	2	657					1700	385		
20	MARIPOSA LANE	2	446			446		446	310		
21	HAGERMAN AVENUE	4	969					1700	890		
22	FOREST ROAD	2	798					1350	730		
23	RAMPART TERRACE ROAD	1	999						900		
24	MISC. PATCHES ALONG HIGHWAY 24 BETWEEN HAGERMAN AVENUE AND RAMPART TERRACE ROAD				48				20	15	
	TOTALS		9,511		48	586	1,126	17,446	5,755	15	

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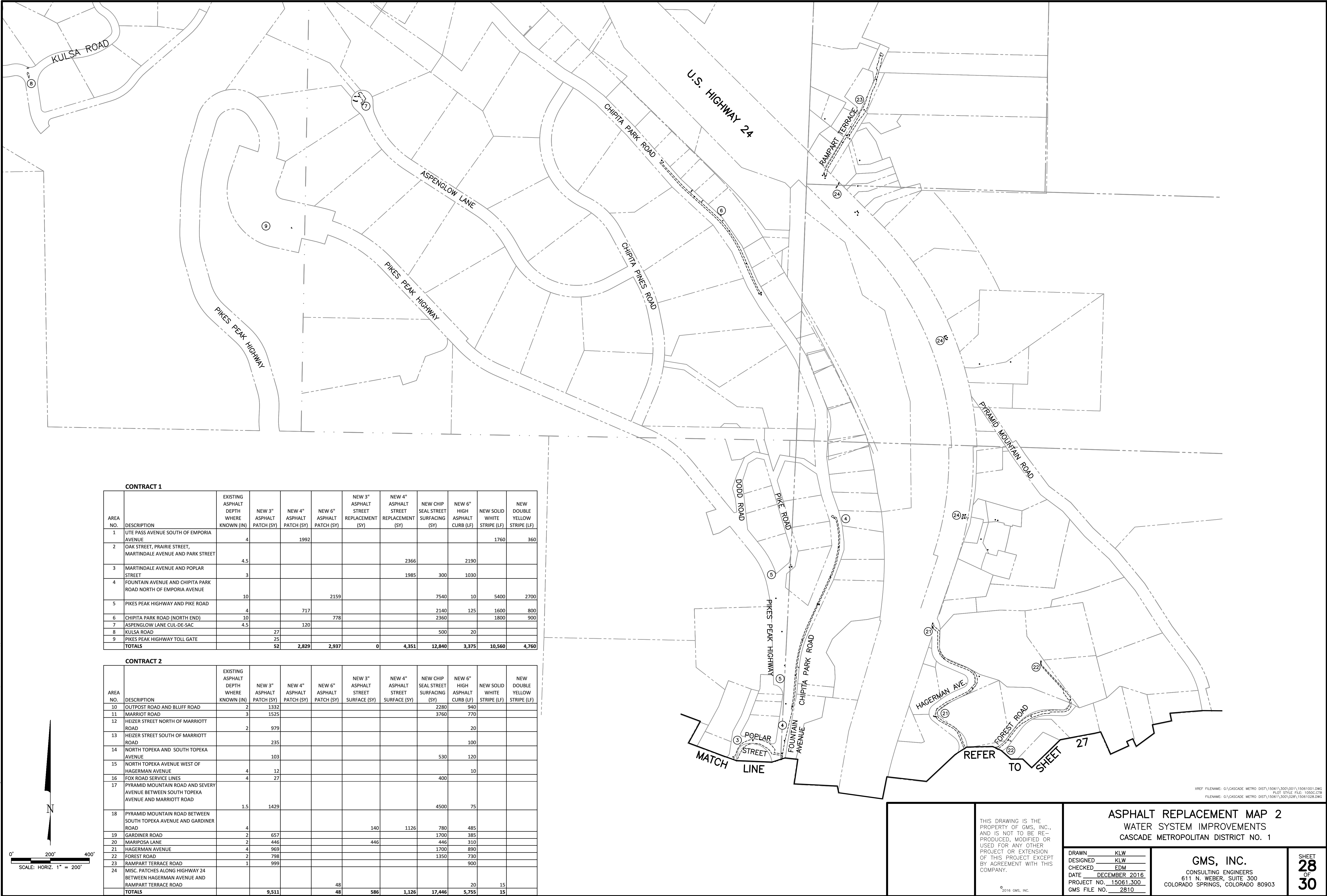
ASPHALT REPLACEMENT MAP 1
WATER SYSTEM IMPROVEMENTS
CASCADE METROPOLITAN DISTRICT NO. 1

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DATE DECEMBER 2016
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GMS FILE NO. 2810

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CONTRACT 1											
AREA NO.	DESCRIPTION	EXISTING ASPHALT DEPTH WHERE KNOWN (IN)	NEW 3" ASPHALT PATCH (SY)	NEW 4" ASPHALT PATCH (SY)	NEW 6" ASPHALT PATCH (SY)	NEW 3" ASPHALT STREET REPLACEMENT (SY)	NEW 4" ASPHALT STREET REPLACEMENT (SY)	NEW CHIP SEAL STREET SURFACING (SY)	NEW 6" HIGH ASPHALT CURB (LF)	NEW SOLID WHITE STRIPE (LF)	NEW DOUBLE YELLOW STRIPE (LF)
1	UTE PASS AVENUE SOUTH OF EMPORIA AVENUE	4		1992						1760	360
2	OAK STREET, PRAIRIE STREET, MARTINDALE AVENUE AND PARK STREET	4.5					2366		2190		
3	MARTINDALE AVENUE AND POPLAR STREET	3					1985	300	1030		
4	FOUNTAIN AVENUE AND CHIPITA PARK ROAD NORTH OF EMPORIA AVENUE	10			2159			7540	10	5400	2700
5	PIKES PEAK HIGHWAY AND PIKE ROAD	4		717				2140	125	1600	800
6	CHIPITA PARK ROAD (NORTH END)	10			778			2360		1800	900
7	ASPENGLOW LANE CUL-DE-SAC	4.5		120							
8	KULSA ROAD		27					500	20		
9	PIKES PEAK HIGHWAY TOLL GATE		25								
TOTALS			52	2,829	2,937	0	4,351	12,840	3,375	10,560	4,760

AREA NO.	DESCRIPTION	EXISTING ASPHALT DEPTH WHERE KNOWN (IN)	NEW 3" ASPHALT PATCH (SY)	NEW 4" ASPHALT PATCH (SY)	NEW 6" ASPHALT PATCH (SY)	NEW 3" ASPHALT STREET SURFACE (SY)	NEW 4" ASPHALT STREET SURFACE (SY)	NEW CHIP SEAL STREET SURFACING (SY)	NEW 6" HIGH ASPHALT CURB (LF)	NEW SOLID WHITE STRIPE (LF)	NEW DOUBLE YELLOW STRIPE (LF)
10	OUTPOST ROAD AND BLUFF ROAD	2	1332					2280	940		
11	MARRIOTT ROAD	3	1525					3760	770		
12	HEIZER STREET NORTH OF MARRIOTT ROAD	2	979						20		
13	HEIZER STREET SOUTH OF MARRIOTT ROAD		235						100		
14	NORTH TOPEKA AND SOUTH TOPEKA AVENUE		103					530	120		
15	NORTH TOPEKA AVENUE WEST OF HAGERMAN AVENUE	4	12						10		
16	FOX ROAD SERVICE LINES	4	27					400			
17	PYRAMID MOUNTAIN ROAD AND SEVERY AVENUE BETWEEN SOUTH TOPEKA AVENUE AND MARRIOTT ROAD	1.5	1429					4500	75		
18	PYRAMID MOUNTAIN ROAD BETWEEN SOUTH TOPEKA AVENUE AND GARDINER ROAD	4				140	1126	780	485		
19	GARDINER ROAD	2	657					1700	385		
20	MARIPOSA LANE	2	446			446		446	310		
21	HAGERMAN AVENUE	4	969					1700	890		
22	FOREST ROAD	2	798					1350	730		
23	RAMPART TERRACE ROAD	1	999						900		
24	MISC. PATCHES ALONG HIGHWAY 24 BETWEEN HAGERMAN AVENUE AND RAMPART TERRACE ROAD				48				20	15	
	TOTALS		9,511		48	586	1,126	17,446	5,755	15	

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ASPHALT REPLACEMENT MAP 2
WATER SYSTEM IMPROVEMENTS
CASCADE METROPOLITAN DISTRICT NO. 1

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METER NO.	OWNER	SCHEDULE NO.	LOCATION ADDRESS
17,504	GILBERT TAMMY J	8322102024	8620 and 8670 ASPENGLOW LN
38	LYLE HUGH H, HEATHER M	8322402008	8290 POPLAR ST
42	SISTERS OF CHARITY OF CINCINNATI	8322403005	4630 FOUNTAIN AVE
43	SISTERS OF CHARITY OF CINCINNATI	8322403006	4620 FOUNTAIN AVE
47	SMART ROBBIN	8322403017	4660 FOUNTAIN
48	CRAWFORD LINDA A	8322403018	4690 FOUNTAIN AVE
51	BROWN ANDREW	8322404024	4650 MARTINDALE AV
58	MCMMASTER BRIAN S	8323201001	5370 RAMPART TERRACE RD
71	BERRYMAN GEORGE C & GLENDA S	8323300029	7914, 7920 FOREST RD
72	LE VAR PETER H, SEGER LINDA	8323300032	4705 HAGERMAN AVE
77	MONGELLOW JAMES	8323300054	4615 FOUNTAIN AVE
78	BIRMINGHAM BILLIE J, CHARLES L	8323300060	
80	PIKES PEAK TRADING POST LLC	8323300078	4670 FOUNTAIN AVE
109	SHAFFER LIVING TRUST	8323305001	7705 N TOPEKA AVE
124	SCHULTZ BARRY S & THERESA C	8323306018	7780 SEVERY AVE
125	EMLEN LODGE PARTNERSHIP	8323306020	7790 SEVERY AVE
133	ZIMMERMAN LIVING TRUST	8323308003	4575 FOUNTAIN AVE
139	SPOOKALOONEY LLC	8326101002	4325 HEIZER ST
147	GARRISON PEGGY L LIVING TRUST	8326200014	4330 HEIZER ST
157	UCHAJ ALICIA K	8326200045	7885 W HIGHWAY 24
159	WINERY AT PIKES PEAK LLC	8326200054	8045 W HIGHWAY 24
184	DENNIS MICHAEL, MELINDA	8326204003	7960 MARRIOTT RD
188	GJOVIG ELINORE H REVOCABLE TRUST	832620076	
190	PARLIAMENT MARVIN A AND FRANCINE R	8326207001	4455 FOUNTAIN AVE
201	FREDERICK ALAN, CARY S	8327102015	4356 PRAIRIE ST
202	FULOP GEORGE, TAMMY	8327102010	4362 PRAIRIE ST
203	SOLSBERY DAN DOUGLAS, MORROW DEBBI KAY	8327102019	4390 PRAIRIE ST
208	STEPHENS DAVID, AMY	8327103003	4414 MARTINDALE AVE
212	NEWMAN VIRGINIA B	8327103006	8290 PARK ST
318	BOLINGER RONALD J & BONNIE J	8323200006	5334 RAMPART TERR
319	ROMANO DANIEL L, C/O AUTUMN ROMANO	8323200007	5338 RAMPART TER
320	RAKES PATRICK W	8323200012	8190 W HIGHWAY 24
321	STULTS GEORGE R & KATHRYN S	8323200013	8182 W HIGHWAY 24
322	GUTHRIE ROBIN	8323200015	8176 W HIGHWAY 24
328	MYERS RONALD L	8323200027	5320 RAMPART TERRACE RD
329	BINGHAM JASON W	8323200029	5330 RAMPART TERRACE RD
330	HEINTZ JAMES A & JULIANNA M	8323200030	5306 RAMPART TERR
331	CHANDLER DOROTHY I	8323200031	5310 RAMPART TERRACE RD
333	HUNTER TIMOTHY L	8323201004	8238 W HIGHWAY 24
334	SUUCK MATTHIAS & NICOLE	8323201005	8240 W HIGHWAY 24
335	PB13 LLC	8323201006	8236 W HIGHWAY 24
336	MAIN DEBORAH L	8323201007	8234 W HIGHWAY 24
337	FUHRMAN TROY L & ALLISON	8323201008	8232 W HIGHWAY 24
338	BILLINGIERE Y JEAN	8323201009	8230 W HIGHWAY 24
344	DRK FAMILY PARTNERSHIP LLC	8323300034	7940 FOREST RD
346	US BANK	8323300045	7850 GARDINER RD
347	DAVIS SCOTT R, CHRISTIE J	8323300046	4645 COLUMBINE LN
348	DUDLEY BOB L, TERESA L	8323300047	7820 GARDINER RD
349	MCCLAIN ALLYSON	8323300048	7810 GARDINER RD
351	BERSON JORDY, REBECCA	8323300057	7870 GARDINER RD
354	DURBEN CHRIS E	8323300065	8138 W HIGHWAY 24
359	MURDOCK ROGER & CAROL S	8323300106	
360	IVES BRIAN K AND WEARS BERRIE L	8323300107	
363	SPAUDLING STEPHEN J OR ROBIN ELLEN REISER TRUST	8323300113	4680 MARIPOSA LN
364	SLAVEN LOIS E	8323300114	8122 W HIGHWAY 24
365	GUIER LORETHA	8323300115	8126 W HIGHWAY 24
367	BORDEN JAMES D	8323300117	4640 MARIPOSA LN
381	OTIS EDWARD A JR	8326101001	4215 OUTPOST RD
384	MCCLOSKEY DAVID J, DEBRA L	8326200015	4255 OUTPOST RD
414	CUTHBERTSON-DAWSON KATHLEEN & DAWSON HOWARD W	8326203012	7860 MARRIOTT RD
418	LOWDER INVESTMENTS LLC	8326206006	8006 W HIGHWAY 24
420	WOOD GEORGE W, M LYNN	8326206024	HAGERMAN AVE
421	DIOCESE OF COLORADO SPRINGS	8326208002	FOUNTAIN AVE
423	ENGLE GLEN E	8326208005	4510 FOUNTAIN AVE
428	ALBERTS KEASTON	8327102009	4370 PRAIRIE ST
435	FLATHERS HAROLD L & BRENDA J	8327103001	4475 PRAIRIE ST
439	KONDRATOW CHERYL	8323300053	4645 FOUNTAIN AVE
440	CHILDS ZACHARY, OHMES ALEXANDRIA	8323201010	8228 W HWY 24
442	SMITH & SMITH CASCADE PROP LLC	8326200079	8025 W HIGHWAY 24
500	CASCADE COLORADO PARK ASSOC INC	8327105001	8295 PARK ST
501	BEISEL STEVE, WENDY A, HAROL R, WILMA J	8323300076	FOUNTAIN AVE
502	BEISEL STEPHEN R, WENDY A	8323300085	FOUNTAIN AVE
503	RAYER RICHARD S, JUDITH A	8323300086	CHIPITA PARK RD
505	ROBERSON ROBERT D, MARSHA D	8322206002	8665 ASPENGLOW LN
506	JENSEN DARLENE Z	8322200014	9005 MOUNTAIN RD
507	BLUE MESA LIMITED PARTNERSHIP	8326204004	7980 MARRIOTT RD
508	SHAFFER LIVING TRUST	8323306011	S TOPEKA AVE
509	CASCADE METRO DISTRICT NO. 1 509	8323300033	FOREST RD
510	CASCADE METRO DISTRICT NO. 1 510	8323300031	HAGERMAN AVE

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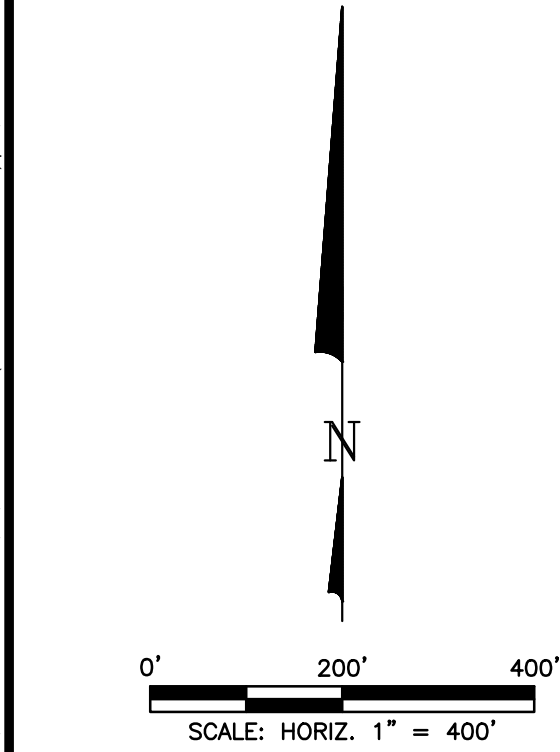
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EASEMENT MAP 1
WATER SYSTEM IMPROVEMENTS
CASCADE METROPOLITAN DISTRICT NO. 1

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- LEGEND**
- 506 INDOOR METER SET
 - 220 OUTDOOR METER PIT
 - 507 NON-METERED UNDEVELOPED GROUND

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EASEMENT MAP 2
WATER SYSTEM IMPROVEMENTS
CASCADE METROPOLITAN DISTRICT NO. 1

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