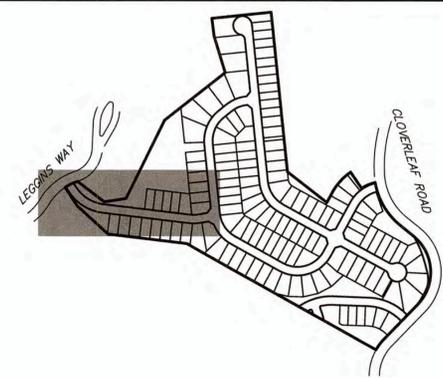


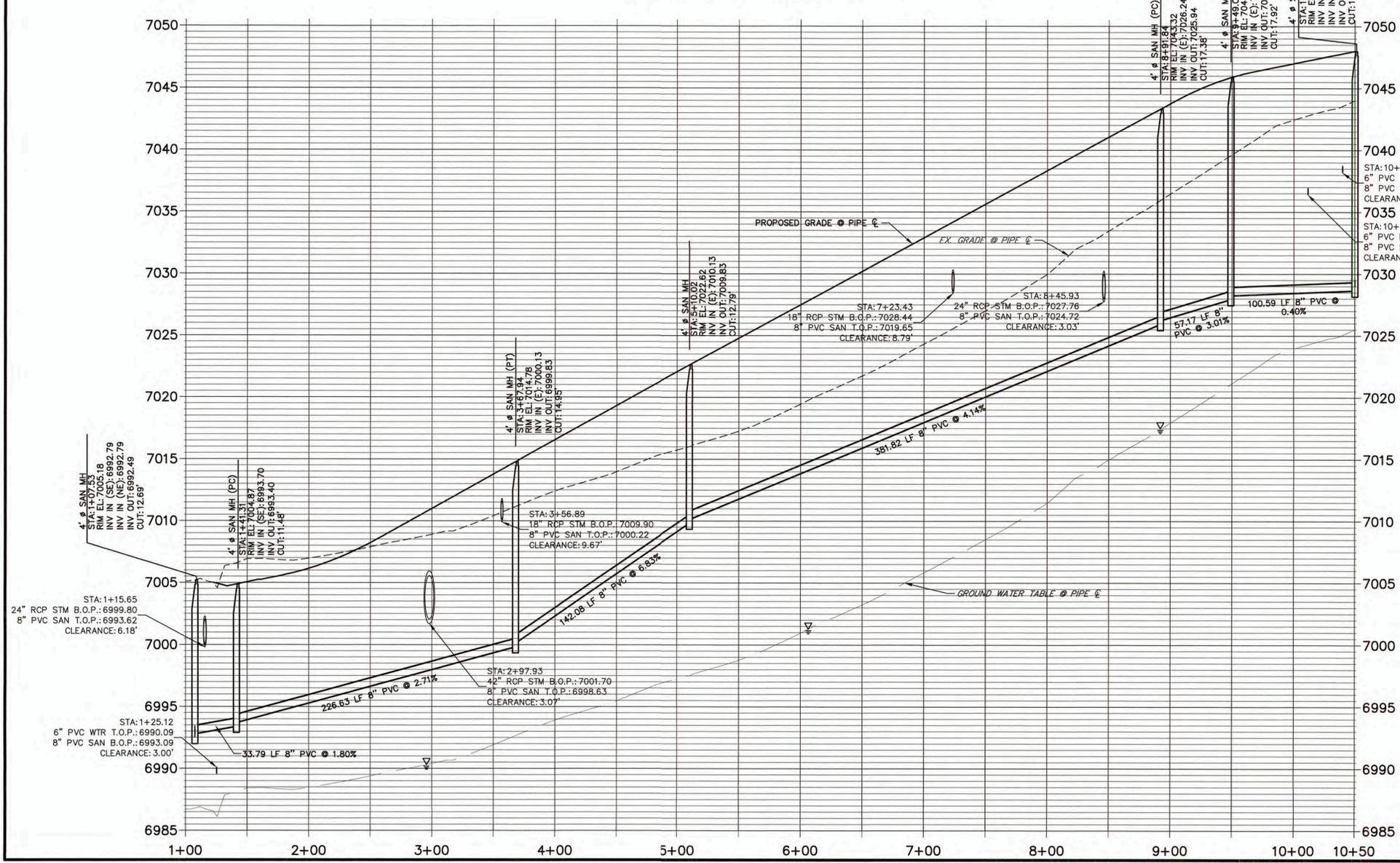
LINE	BEARING	DISTANCE
SL1	S28°42'06\"/>	
SL2	S80°33'35\"/>	
SL3	S83°12'34\"/>	
SL4	N80°19'22\"/>	

CURVE	DELTA	RADIUS	LENGTH
SC2	52°53'30\"/>		
SC3	16°27'33\"/>		



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**SP01 PROFILE  
STA 1+00.00 TO 10+49.59**

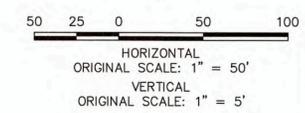
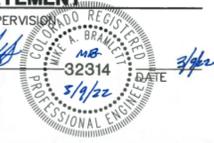


**NOTES**

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**ENGINEER'S STATEMENT**

PREPARED UNDER MY SUPERVISION  
  
 MIKE A. BRAMLETT, P.E.  
 COLORADO P.E. 32314  
 FOR AND ON BEHALF OF  
 JR ENGINEERING, LLC



WOODMOOR WATER AND SANITATION DISTRICT NO. 1  
 APPROVED FOR CONSTRUCTION

DATE: 5/13/22 BY:

THESE PLANS HAVE BEEN REVIEWED ONLY FOR GENERAL CONFORMANCE WITH DISTRICT RULES AND REGULATIONS AND SYSTEM SPECIFICATIONS. REVIEW AND CONSTRUCTION APPROVAL BY THE DISTRICT DOES NOT RELIEVE THE DEVELOPER/OWNER AND/OR CONTRACTOR FROM RESPONSIBILITY FOR COMPLIANCE WITH ANY RULES, REGULATIONS, OR SPECIFICATIONS REQUIRED BY THE DISTRICT.

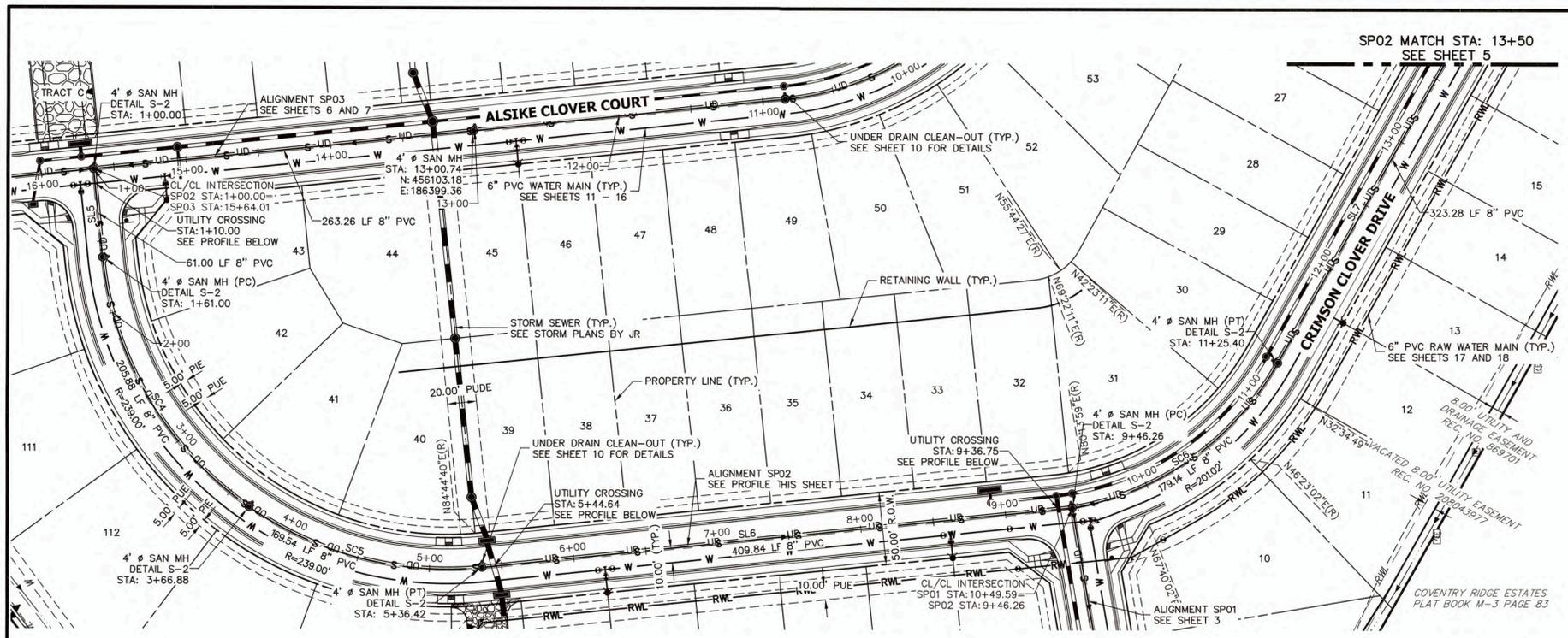
UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE AGENCIES, JR ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR  
**MONUMENT HILL CM LLC**  
 1864 WOODMOOR DRIVE  
 COLORADO SPRINGS, CO 80920  
 ATTN: JOE DESJARDIN  
 (719) 476-0800  
 JDESJARDIN@PROTERRACO.COM

**JR ENGINEERING**  
 A Westland Company  
  
 Central 303-740-8888 • Colorado Springs 719-590-2588  
 Fort Collins 970-491-8888 • www.jrengineering.com

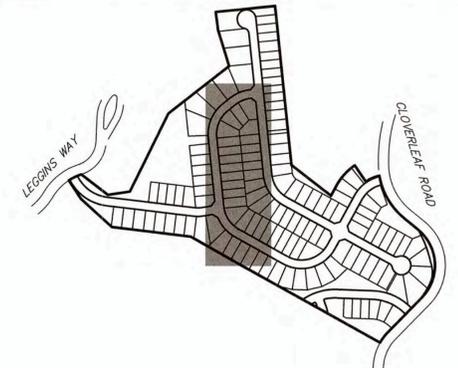
No.	REVISION	DATE

CLOVERLEAF FILING NO. 2  
 SANITARY SEWER PLAN AND PROFILE  
 SHEET 3 OF 25  
 JOB NO. 25158.01



LINE TABLE		
LINE	BEARING	DISTANCE
SL5	N84°07'17"E	61.00'
SL6	N05°52'43"W	409.84'
SL7	N60°57'58"W	323.28'

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
SC4	49°20'56"	239.00'	205.85'
SC5	40°39'04"	239.00'	169.57'
SC6	51°03'38"	201.02'	179.14'

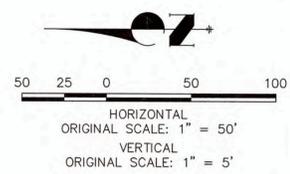
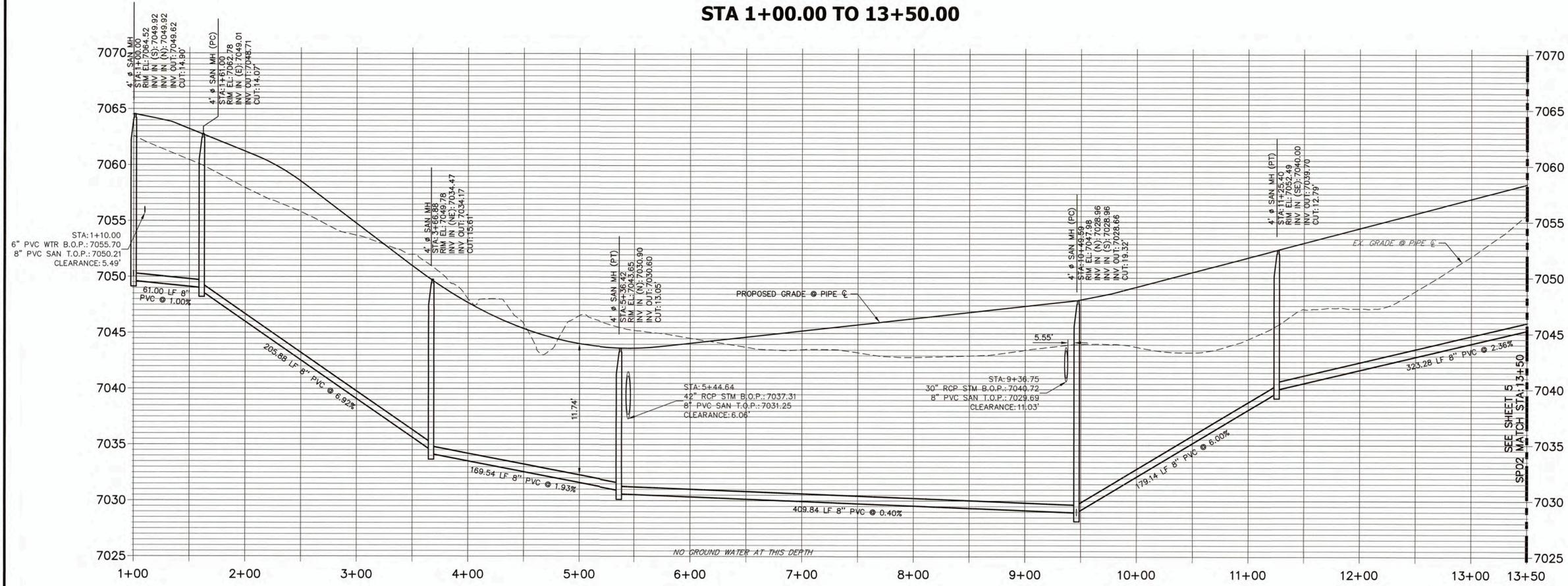


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 COLORADO SPRINGS, CO 80920  
 ATTN: JOE DESJARDIN  
 (719) 476-0800  
 JDESJARDIN@PROTERRACO.COM

ENGINEER'S STATEMENT  
**J-R ENGINEERING**  
 A Western Company  
 Centennial 303-740-3333 • Colorado Springs 719-593-2533  
 Fort Collins 970-491-9888 • www.jrengineering.com

- NOTES**
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**SP02 PROFILE  
 STA 1+00.00 TO 13+50.00**



No.	REVISION	DATE

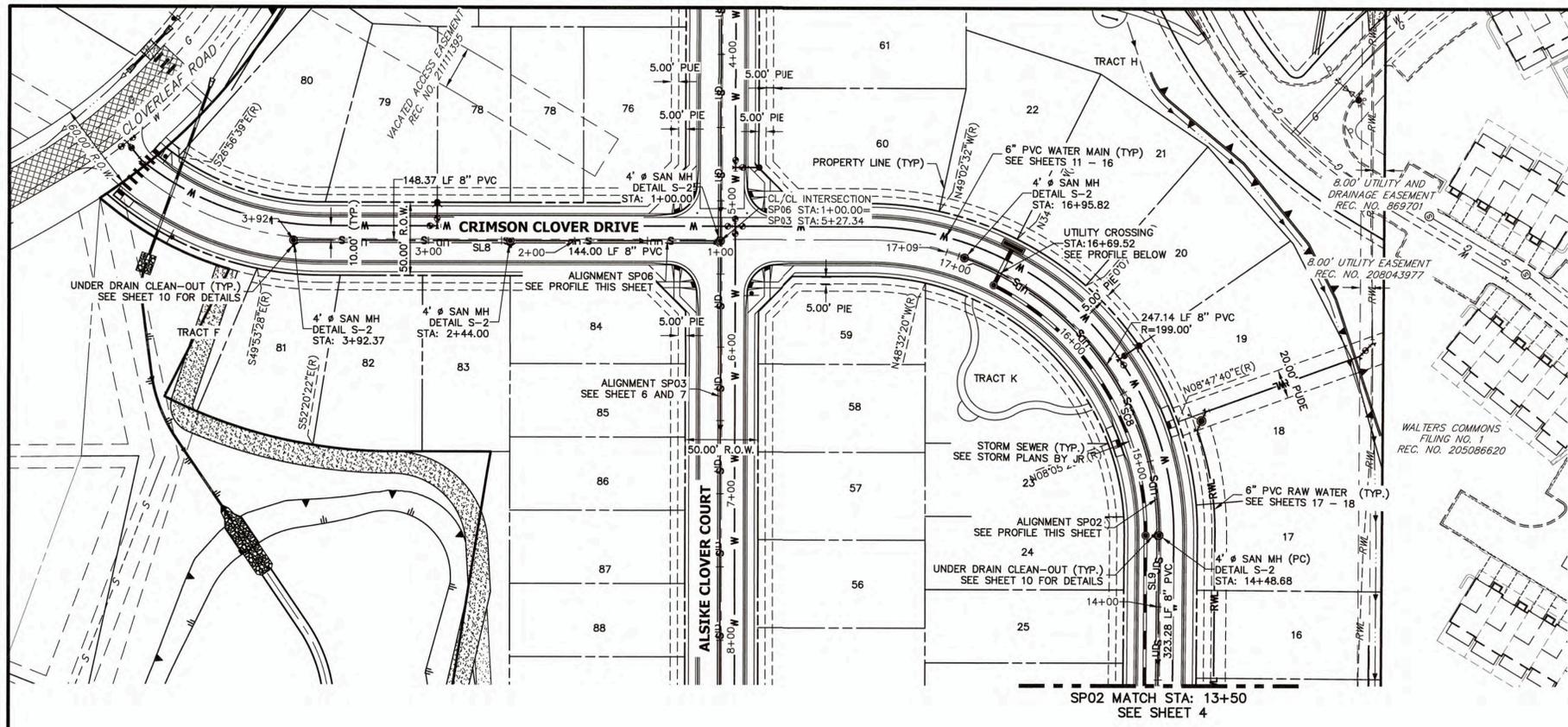
CLOVERLEAF FILING NO. 2  
 SANITARY SEWER PLAN AND PROFILE  
 SHEET 4 OF 25  
 JOB NO. 25158.01



THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.

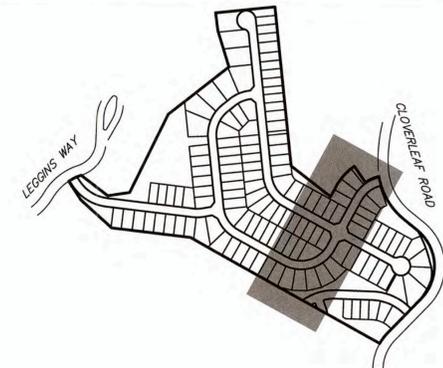
**ENGINEER'S STATEMENT**  
 PREPARED UNDER MY SUPERVISION  
 Mike A. Bramlett, P.E.  
 32314  
 5/19/22  
 FOR AND ON BEHALF OF  
 JR ENGINEERING, LLC

WOODMOOR WATER AND SANITATION DISTRICT NO. 1  
 APPROVED FOR CONSTRUCTION  
 DATE: 3/3/22  
 BY: [Signature]  
 THESE PLANS HAVE BEEN REVIEWED ONLY FOR GENERAL CONFORMANCE WITH DISTRICT RULES AND REGULATIONS AND SYSTEM SPECIFICATIONS. REVIEW AND CONSTRUCTION APPROVAL BY THE DISTRICT DOES NOT RELIEVE THE DEVELOPER/OWNER AND/OR CONTRACTOR FROM RESPONSIBILITY FOR COMPLIANCE WITH ANY RULES, REGULATIONS, OR SPECIFICATIONS REQUIRED BY THE DISTRICT.



CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
SC8	71°09'22"	199.00'	247.14'

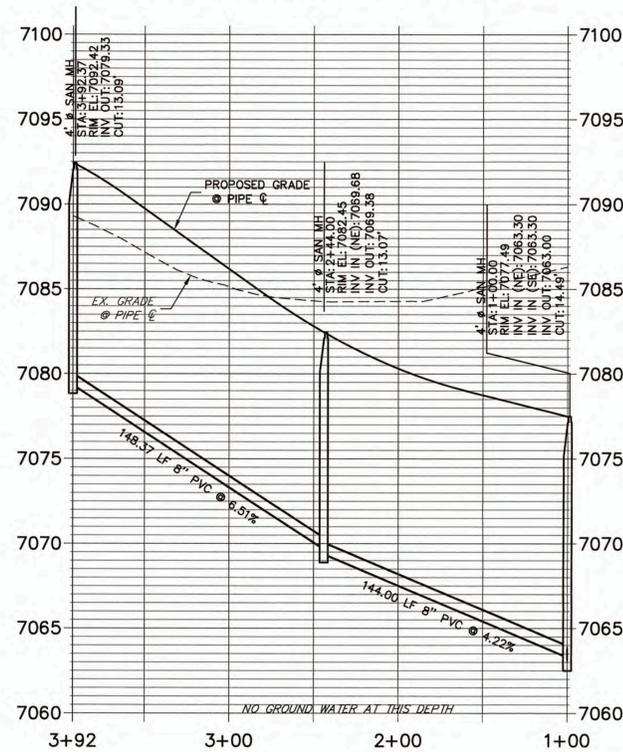
LINE TABLE		
LINE	BEARING	DISTANCE
SL8	N28°37'08"E	292.37'
SL9	N60°57'58"W	323.28'



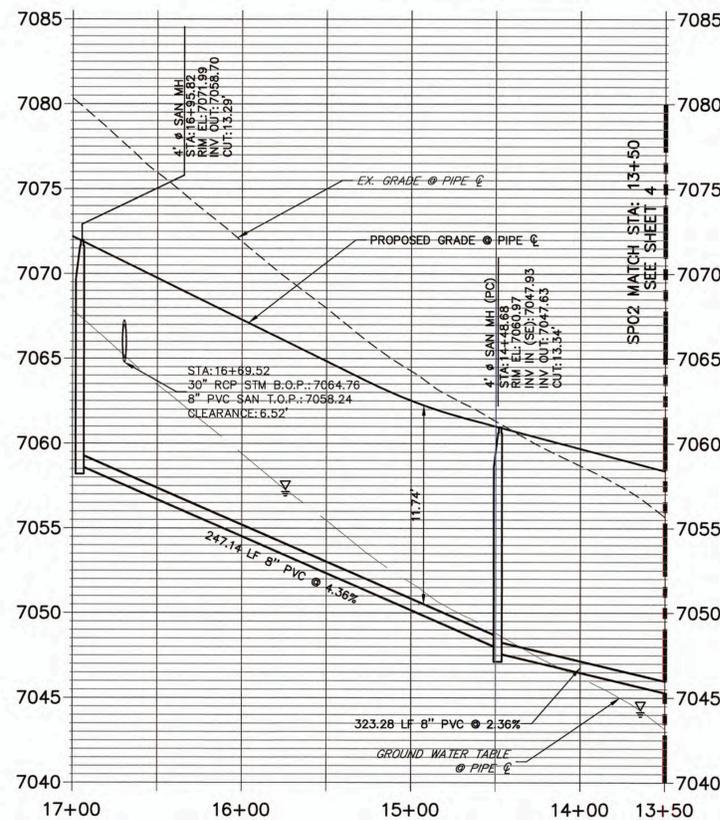
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**SP06 PROFILE  
STA 1+00.00 TO 3+92.37**



**SP02 PROFILE (1)  
STA 13+50.00 TO 17+00.00**



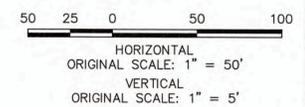
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**ENGINEER'S STATEMENT**

PREPARED UNDER MY SUPERVISION  
  
 MIKE A. BRAMLETT, P.E.  
 COLORADO P.E. 32314  
 FOR AND ON BEHALF OF  
 JR ENGINEERING, LLC



Know what's below.  
Call before you dig.



WOODMOOR WATER AND SANITATION DISTRICT NO. 1  
APPROVED FOR CONSTRUCTION

DATE: 3/3/22 BY: ARH

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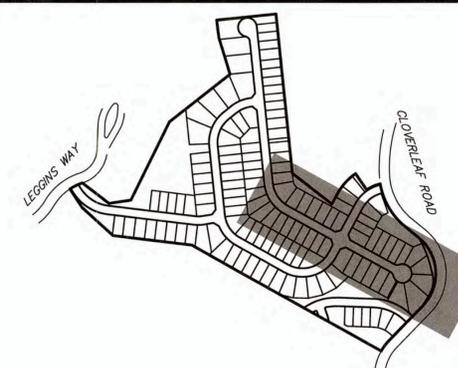
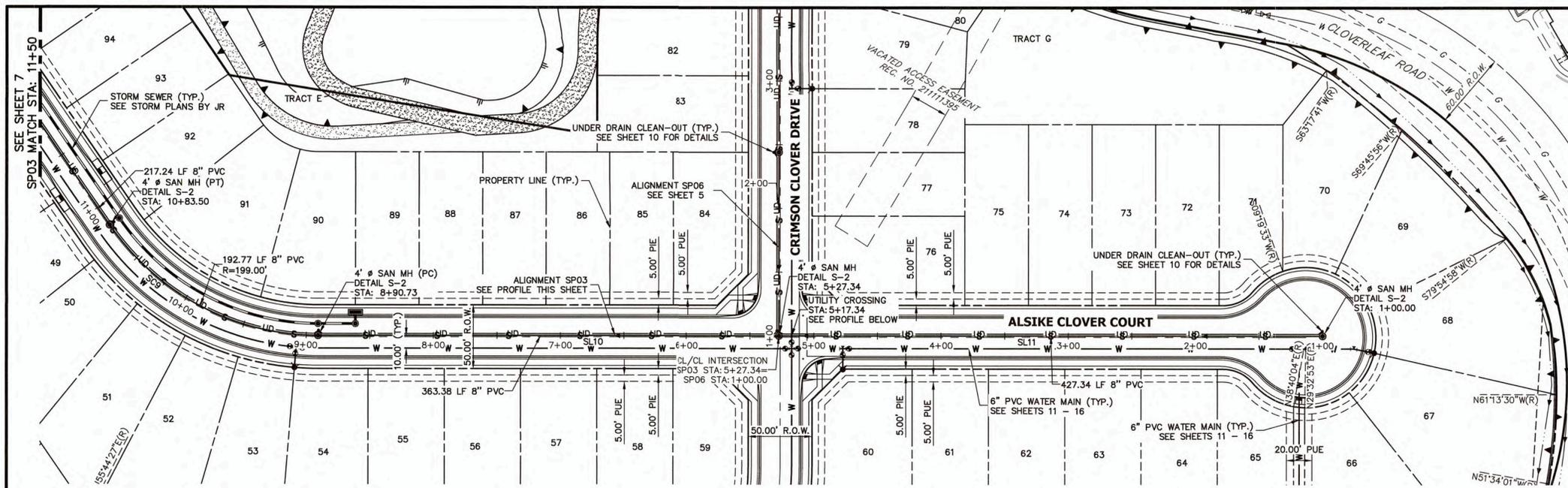
UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, THEY ARE NOT TO BE USED FOR ANY PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR  
**MONUMENT HILL CM LLC**  
 1864 WOODMOOR DRIVE  
 COLORADO SPRINGS, CO 80920  
 ATTN: JOE DESJARDIN  
 (719) 476-0800  
 JDESJARDIN@PROTERRACO.COM

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 A Western Company  
 Centennial 303-740-8888 • Colorado Springs 719-598-2888  
 Fort Collins 970-491-8888 • www.jrengineering.com

No.	REVISION	DATE

CLOVERLEAF FILING NO. 2  
 SANITARY SEWER PLAN AND PROFILE  
 SHEET 5 OF 25  
 JOB NO. 25158.01



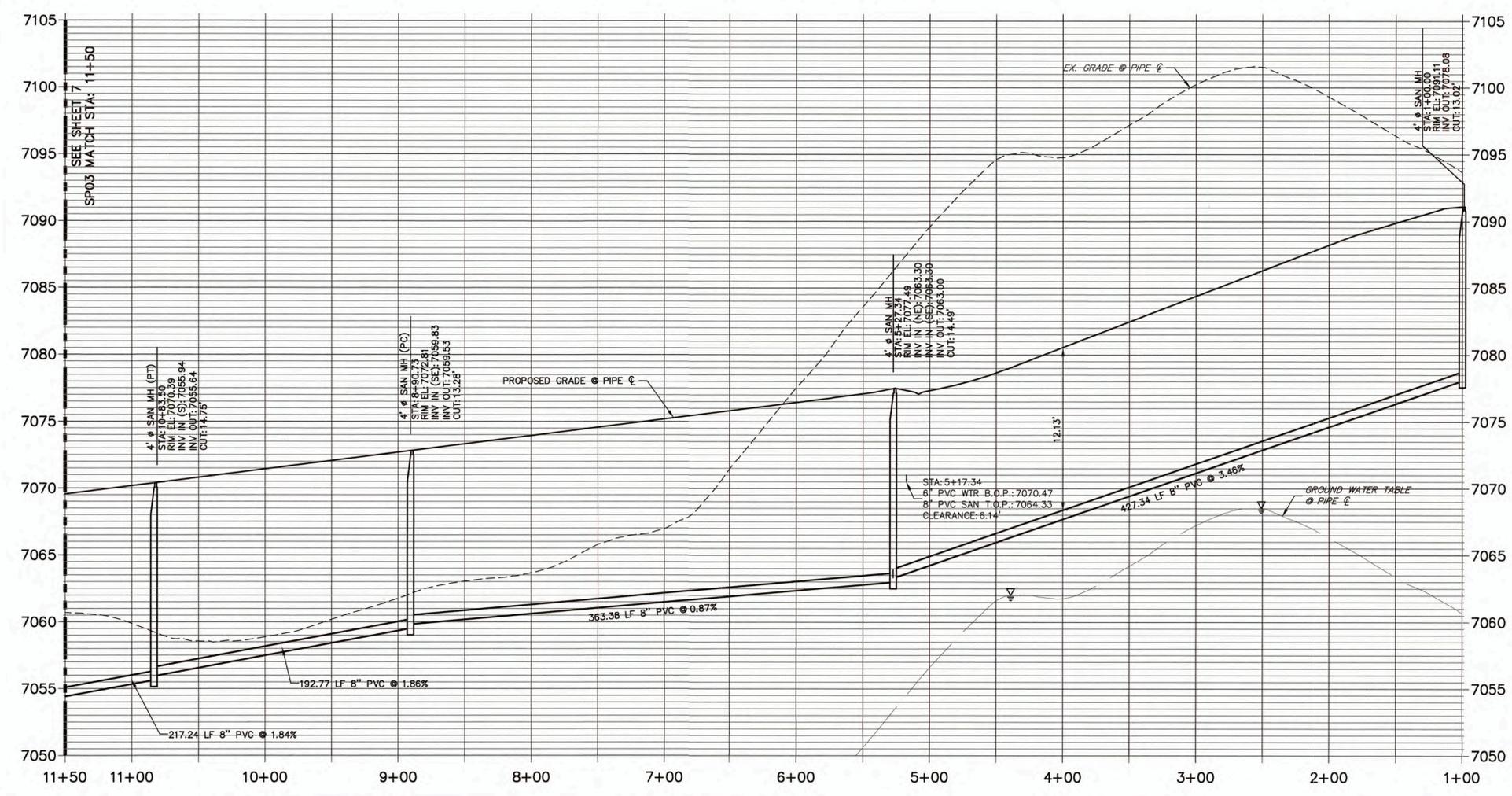
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 1864 WOODMOOR DRIVE  
 COLORADO SPRINGS, CO 80920  
 ATTN: JOE DESJARDIN  
 (719) 476-0800  
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**SP03 PROFILE  
 STA 1+00.00 TO 11+50.00**



LINE TABLE		
LINE	BEARING	DISTANCE
SL10	N61°22'52"W	363.38'
SL11	N61°22'52"W	427.34'

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
SC9	55°30'09"	199.00'	192.77'

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**ENGINEER'S STATEMENT**

PREPARED UNDER MY SUPERVISION  
  
 MIKE A. BRAMLETT, P.E.  
 COLORADO P.E. 32314  
 FOR AND ON BEHALF OF  
 JR ENGINEERING, LLC



Know what's below.  
 Call before you dig.



HORIZONTAL ORIGINAL SCALE: 1" = 50'  
 VERTICAL ORIGINAL SCALE: 1" = 5'

WOODMOOR WATER AND SANITATION DISTRICT NO. 1  
 APPROVED FOR CONSTRUCTION

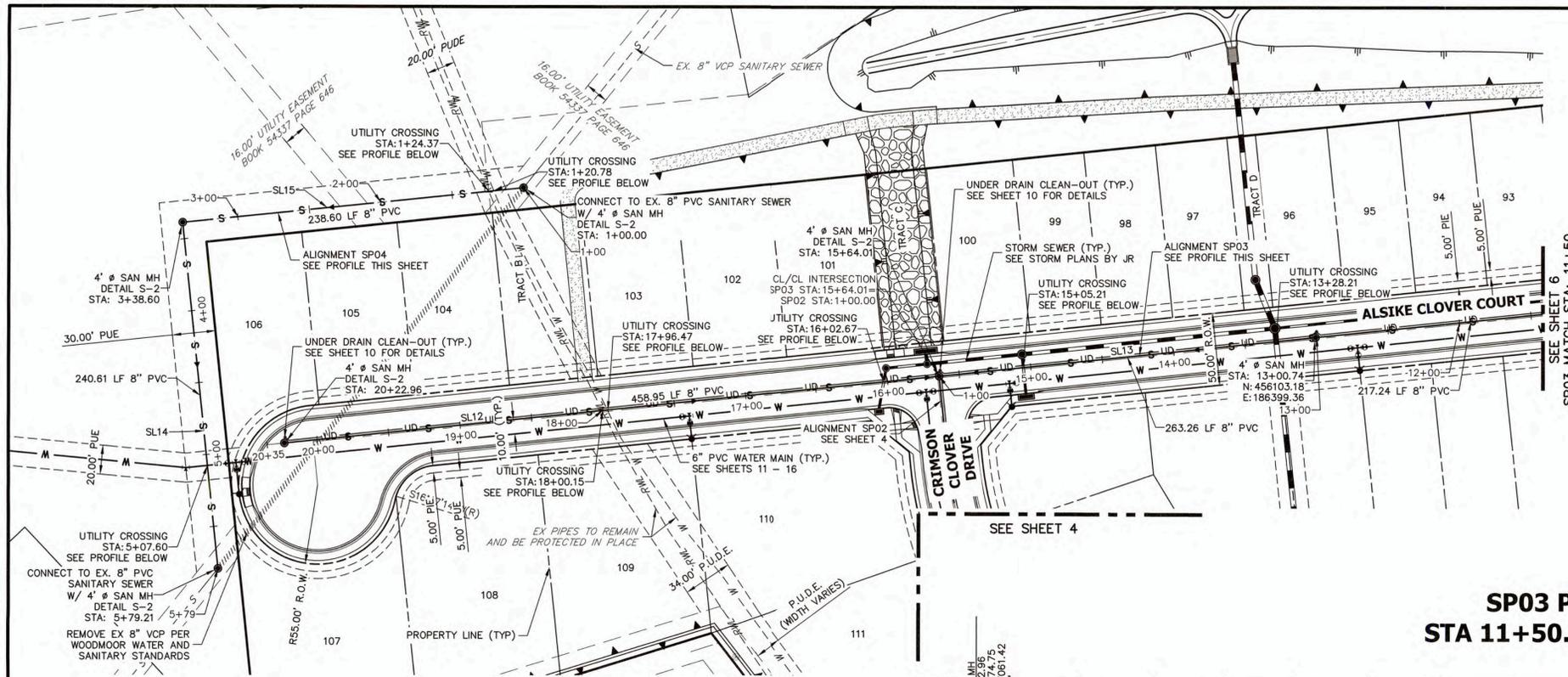
DATE: 3/3/22 BY: JKH

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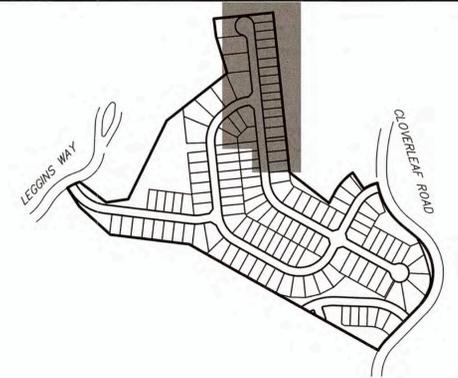
No.	REVISION	DATE	SCALE		DESIGNED BY	DRAWN BY	CHECKED BY
			1"=50'	1"=5'			
					APL	APL	
		03/03/22					

CLOVERLEAF FILING NO. 2  
 SANITARY SEWER PLAN AND PROFILE

SHEET 6 OF 25  
 JOB NO. 25158.01



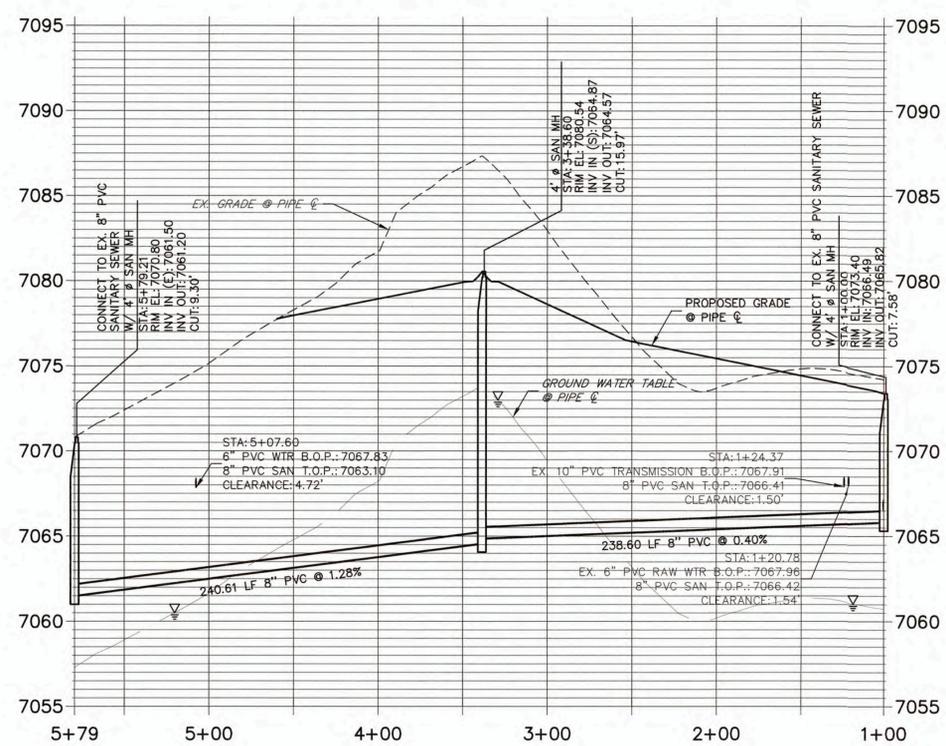
LINE	BEARING	DISTANCE
SL12	N05°52'43"W	458.95'
SL13	N05°52'43"W	480.51'
SL14	S84°03'34"W	240.61'
SL15	N05°52'43"W	238.60'



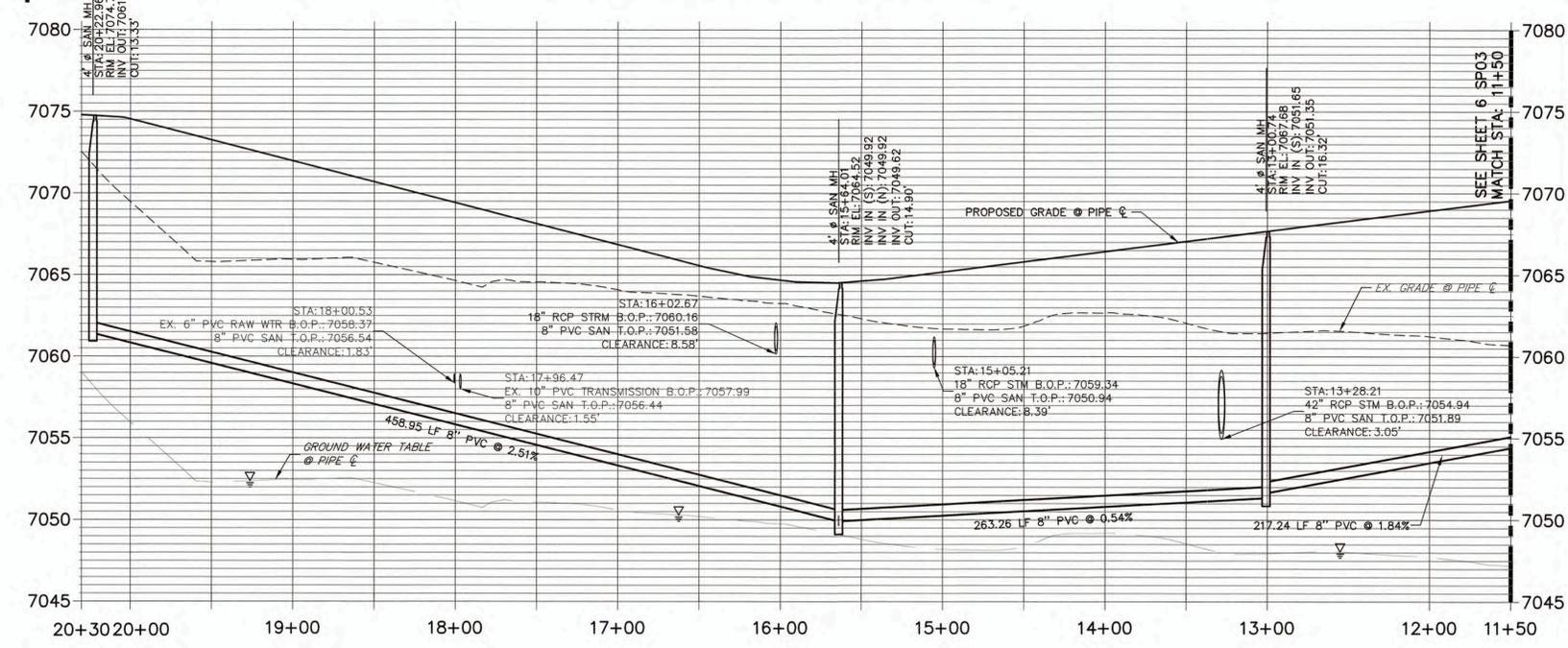
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**SP04 PROFILE  
STA 1+00.00 TO 5+79.21**

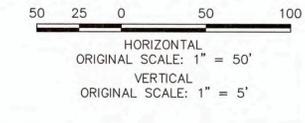


**SP03 PROFILE (2)  
STA 11+50.00 TO 20+30.00**



**ENGINEER'S STATEMENT**

PREPARED UNDER MY SUPERVISION  
 Mike A. Bramlett, P.E.  
 COLORADO P.E. 32314  
 FOR AND ON BEHALF OF  
 JR ENGINEERING, LLC



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WOODMOOR WATER AND SANITATION DISTRICT NO. 1  
 APPROVED FOR CONSTRUCTION

DATE: 3/3/22 BY: [Signature]

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UNLESS SUCH TIME AS APPROVED BY THE ENGINEERING AGENCIES, THIS ENGINEERING IS FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR  
**MONUMENT HILL CM LLC**  
 1864 WOODMOOR DRIVE  
 COLORADO SPRINGS, CO 80920  
 ATTN: JOE DESJARDIN  
 (719) 476-0800  
 JDESJARDIN@PROTERRACO.COM

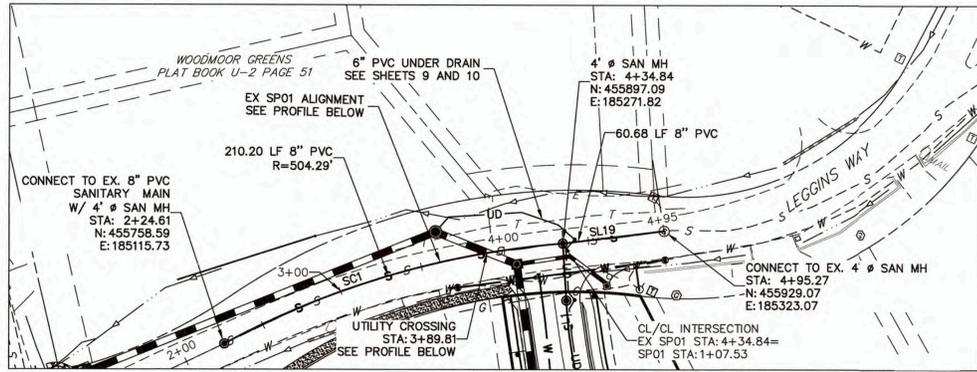
**JR ENGINEERING**  
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 Fort Collins 970-491-9888 • www.jrengineering.com

NO.	REVISION	BY	DATE

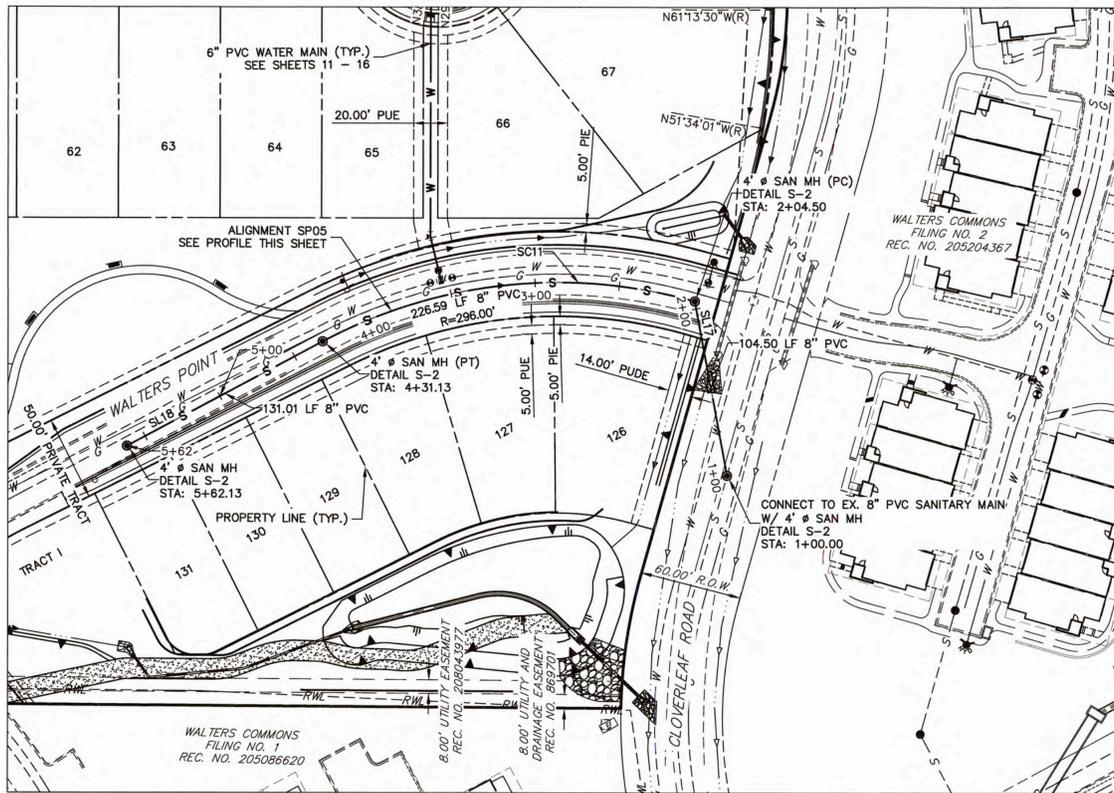
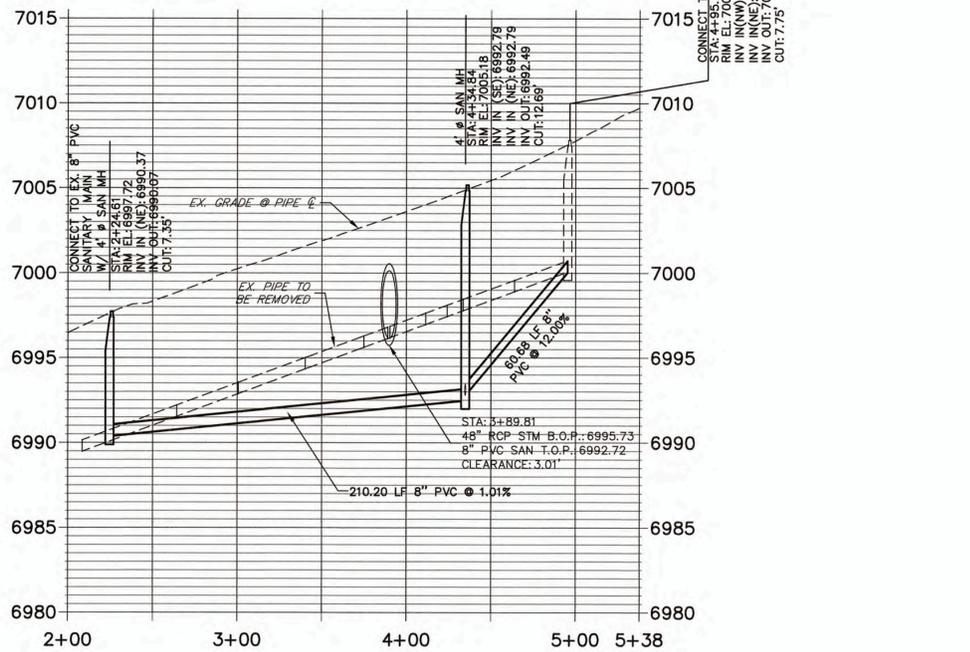
CLOVERLEAF FILING NO. 2  
 SANITARY SEWER PLAN AND PROFILE  
 SHEET 7 OF 25  
 JOB NO. 25158.01

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
SC1	23°47'02"	506.35'	210.19'

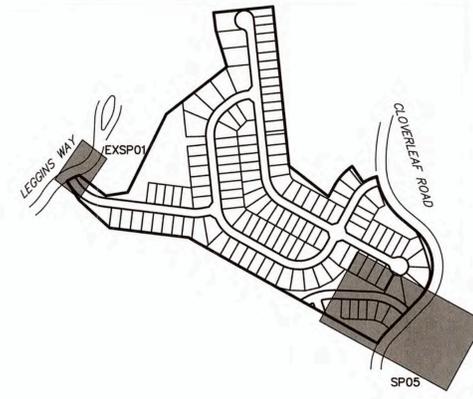
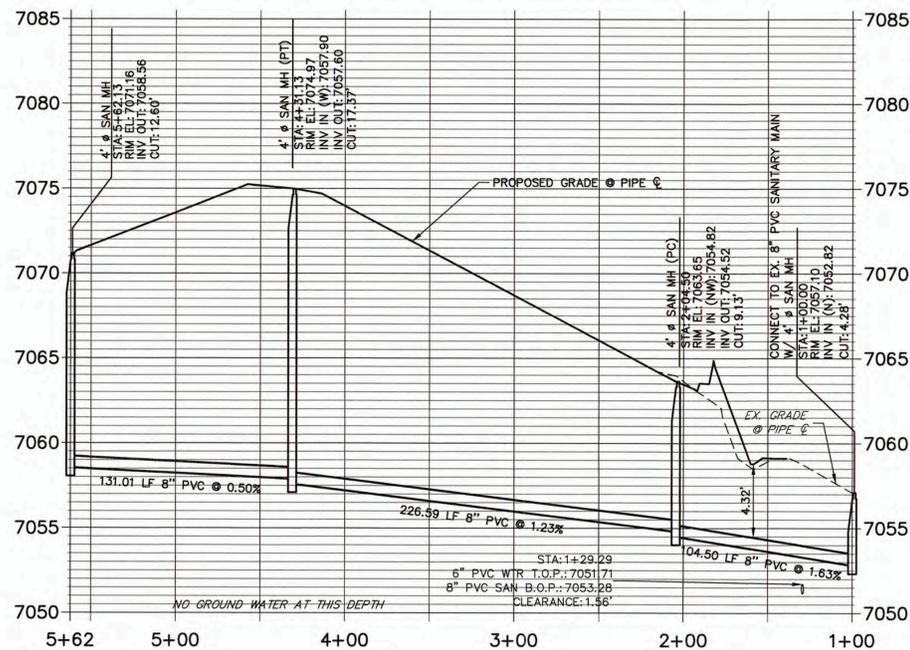
LINE TABLE		
LINE	BEARING	DISTANCE
SL19	N57°54'23"E	60.68'



**EX SP01 PROFILE  
STA 2+00.00 TO 5+37.82**



**SP05 PROFILE  
STA 1+00.00 TO 5+62.13**



LINE TABLE		
LINE	BEARING	DISTANCE
SL17	S18°03'22"W	104.50'
SL18	S89°30'04"E	131.01'

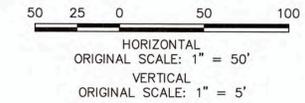
CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
SC11	43°51'37"	296.00'	226.59'

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**ENGINEER'S STATEMENT**

PREPARED UNDER MY SUPERVISION  
  
 MIKE A. BRAMLETT, P.E.  
 COLORADO P.E. 32314  
 FOR AND ON BEHALF OF  
 JR ENGINEERING, LLC



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 APPROVED FOR CONSTRUCTION  
 DATE: 3/3/22 BY: *AKH*  
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PREPARED FOR  
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 1864 WOODMOOR DRIVE  
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 ATTN: JOE DESJARDIN  
 (719) 476-0800  
 JDESJARDIN@PROTERRACC.COM

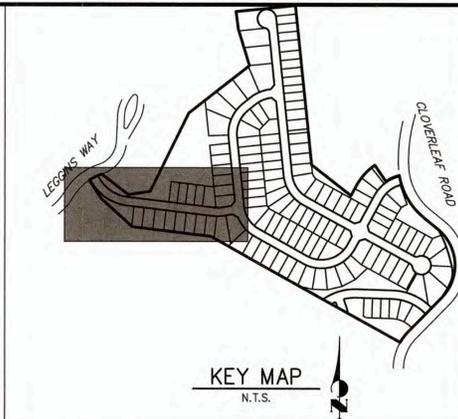
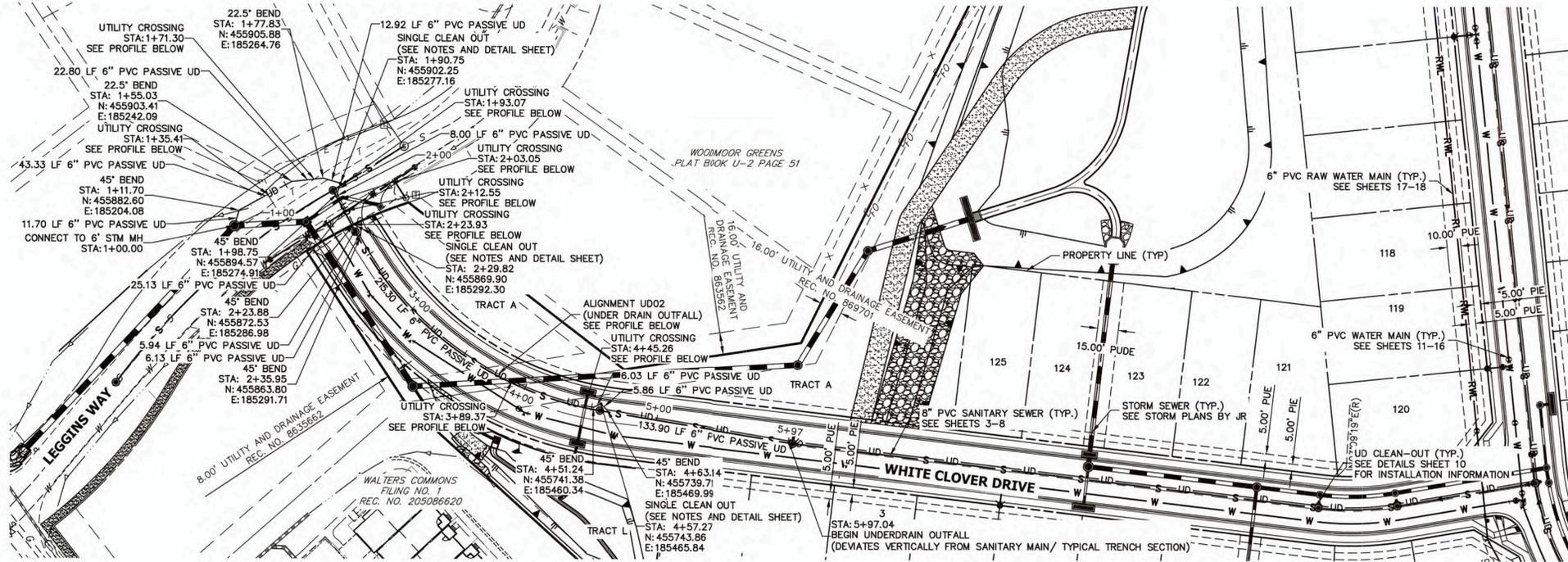
**JR ENGINEERING**  
 A Westman Company  
 Centennial 303-740-3688 • Colorado Springs 719-595-2668  
 Fort Collins 970-491-9888 • www.jrengineering.com

NO.	REVISION	BY	DATE

H-SCALE 1"=50'  
 V-SCALE 1"=5'  
 DATE 03/03/22  
 DESIGNED BY APL  
 DRAWN BY APL  
 CHECKED BY

CLOVERLEAF FILING NO. 2  
 SANITARY SEWER PLAN AND PROFILE

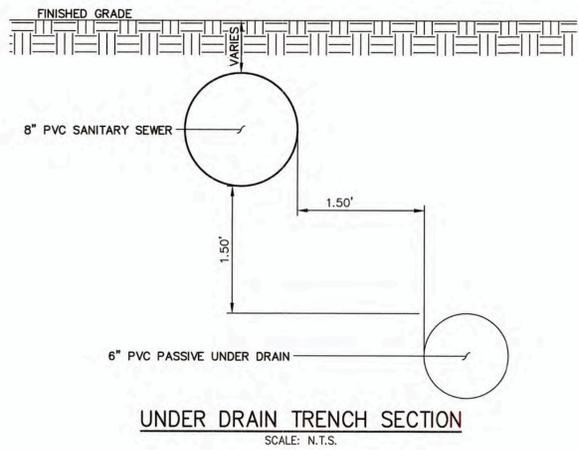
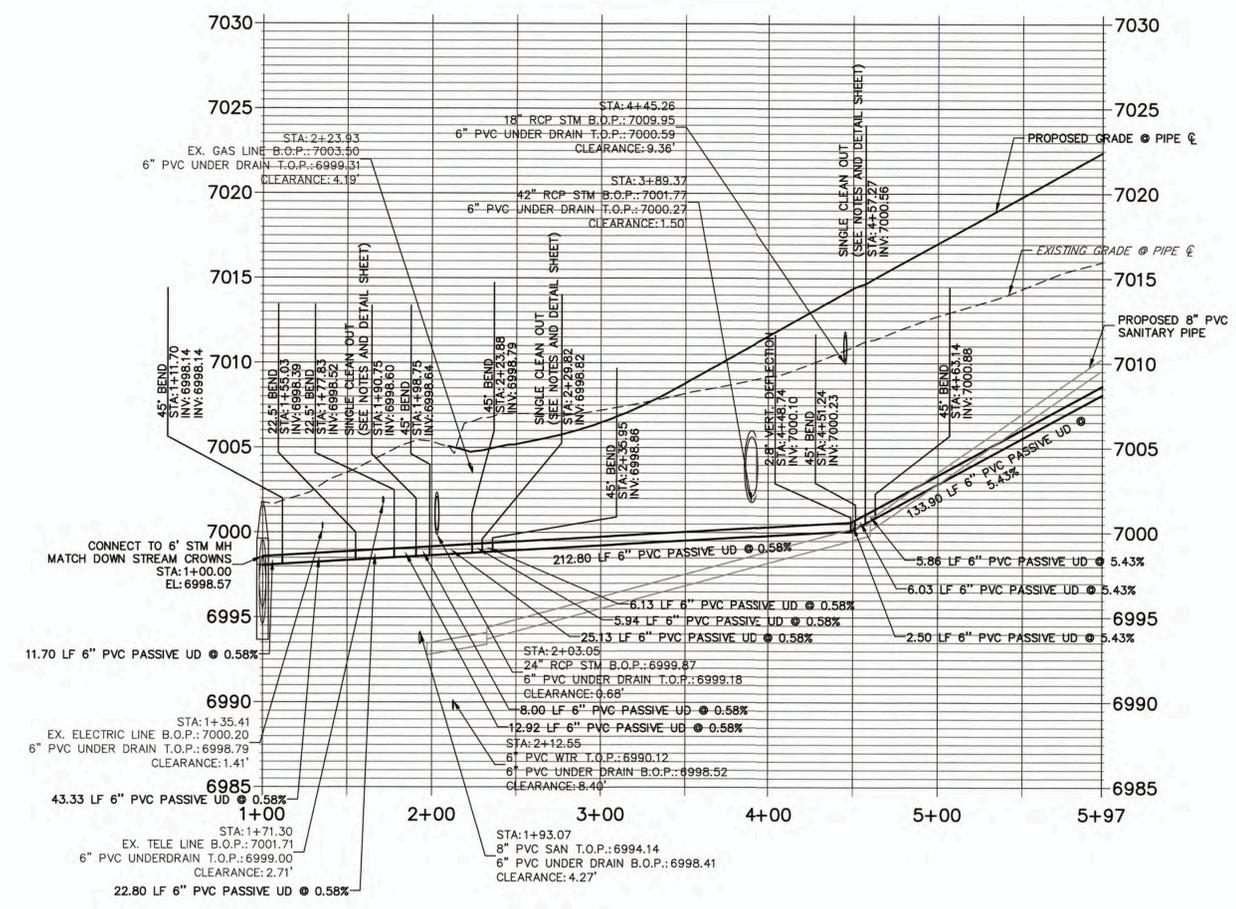
SHEET 8 OF 25  
 JOB NO. 25158.01



PREPARED FOR  
**MONUMENT HILL CM LLC**  
 1864 WOODMOOR DRIVE  
 COLORADO SPRINGS, CO 80920  
 A TTN: JOE DESJARDIN  
 (719) 476-0800  
 JDESJARDIN@PROTERRACO.COM

**J-R ENGINEERING**  
 A Westlan Company  
 Centennial 303-740-3333 • Colorado Springs 719-595-2559  
 Fort Collins 971-491-8888 • www.jrengineering.com

**UD02 PROFILE  
 STA 1+00.00 TO 5+97.04**



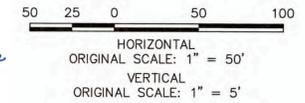
THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.

**NOTES**

- SEE DETAILS SHEET 10 FOR UNDER DRAIN INSTALLATION INFORMATION.
- UNDER DRAIN IS TO BE LOCATED 1.5' HORIZONTALLY FROM OUTSIDE OF SANITARY PIPE TO OUTSIDE OF UNDER DRAIN UNTIL OUTFALL. SEE DETAIL THIS SHEET.
- UNDER DRAIN IS TO BE LOCATED 1.5' VERTICALLY FROM BOTTOM OF SANITARY PIPE TO TOP OF UNDER DRAIN UNTIL OUTFALL. SEE DETAIL THIS SHEET.
- FOR UNDER DRAIN SERVICE LOCATION SEE UTILITY SERVICE PLAN SHEETS 20 AND 21.
- A SINGLE 1-WAY UNDER DRAIN CLEAN-OUT SHALL BE PLACED ADJACENT TO EACH SANITARY SEWER MANHOLE. SEE DETAIL C6-1 FOR UNDER DRAIN DESIGN NEXT TO SANITARY SEWER MANHOLES WITH 2 TOTAL CONNECTIONS. SEE DETAIL TITLED "UNDER DRAIN - TEE DETAIL" FOR UNDER DRAIN DESIGN NEXT TO SANITARY SEWER MANHOLES WITH 3 TOTAL CONNECTIONS.

**ENGINEER'S STATEMENT**

PREPARED UNDER MY SUPERVISION AND REGISTERED PROFESSIONAL ENGINEER  
 MIKE A. BRAMLETT, P.E.  
 COLORADO P.E. 32314  
 FOR AND ON BEHALF OF  
 JR ENGINEERING, LLC



WOODMOOR WATER AND SANITATION DISTRICT NO. 1  
 APPROVED FOR CONSTRUCTION

DATE: 3/3/22 BY: [Signature]

THESE PLANS HAVE BEEN REVIEWED ONLY FOR GENERAL CONFORMANCE WITH DISTRICT RULES AND REGULATIONS AND SYSTEM SPECIFICATIONS. REVIEW AND CONSTRUCTION APPROVAL BY THE DISTRICT DOES NOT RELIEVE THE DEVELOPER/OWNER AND/OR CONTRACTOR FROM RESPONSIBILITY FOR COMPLIANCE WITH ANY RULES, REGULATIONS, OR SPECIFICATIONS REQUIRED BY THE DISTRICT.



NO.	REVISION	DATE

H-SCALE	1" = 50'
V-SCALE	1" = 5'
DATE	03/03/22
DESIGNED BY	APL
DRAWN BY	APL
CHECKED BY	

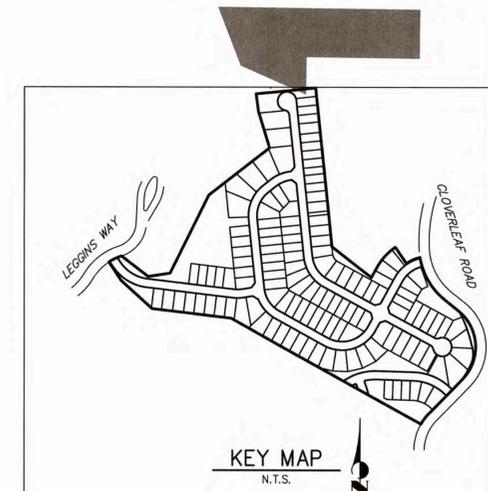
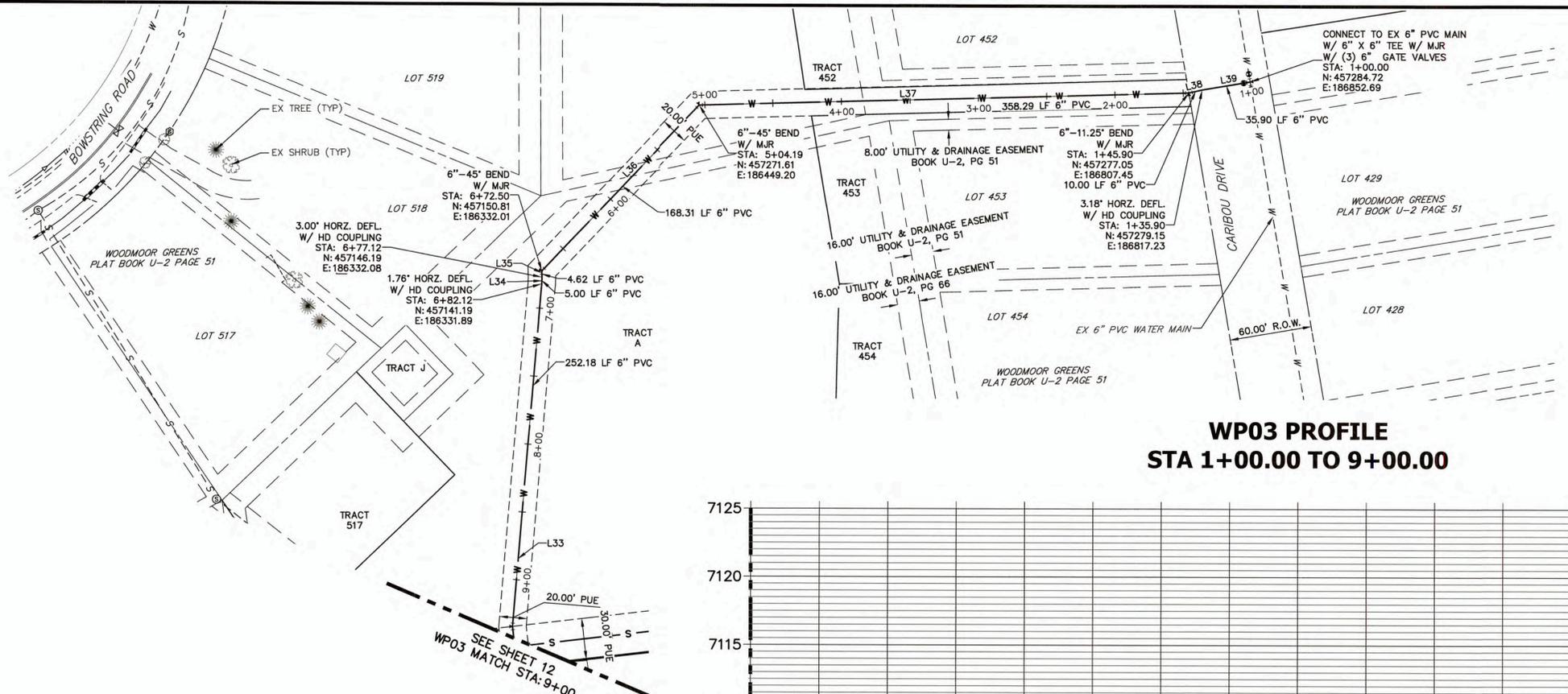
CLOVERLEAF FILING NO. 2

UNDER DRAIN

SHEET 9 OF 25

JOB NO. 25158.01

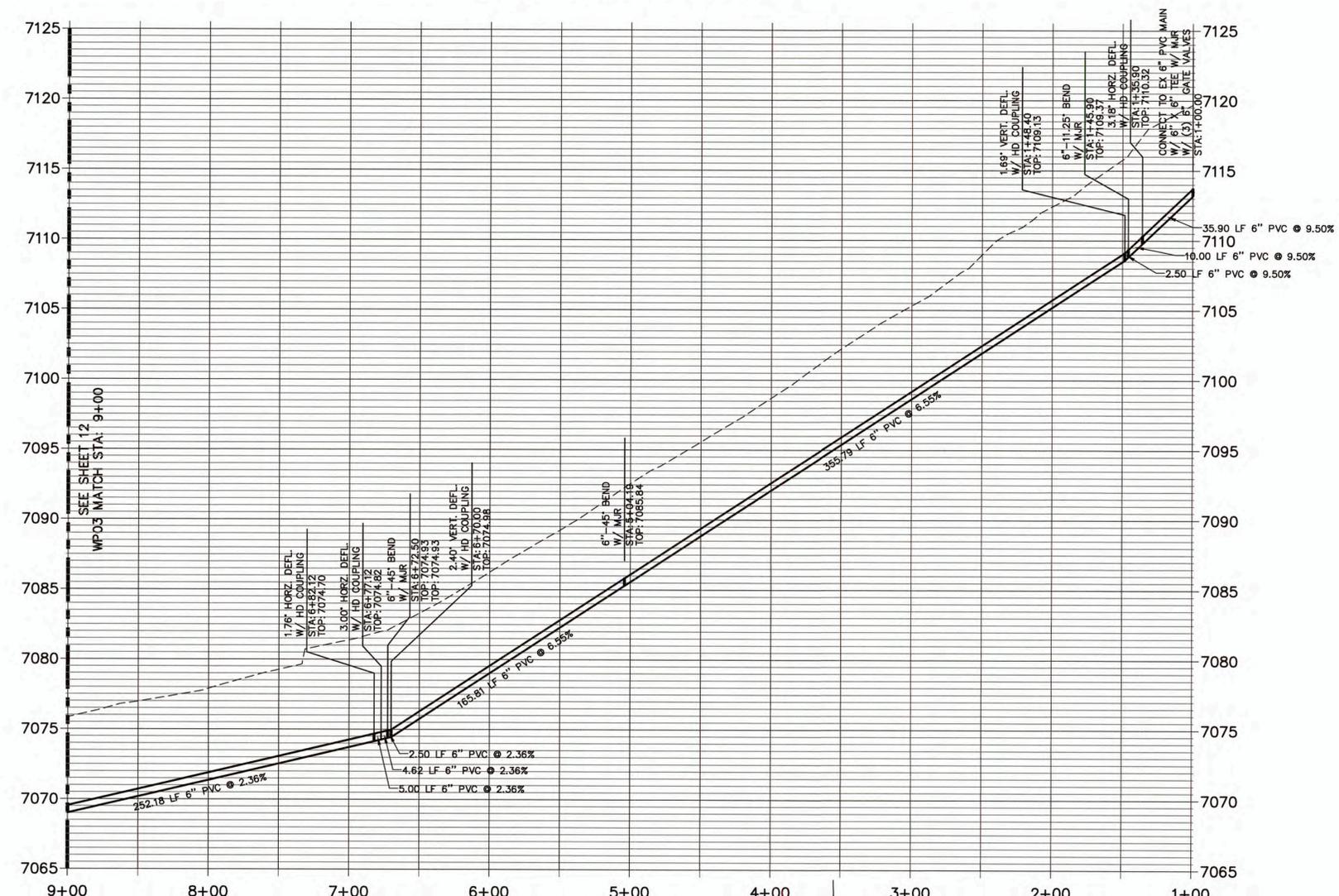




PREPARED FOR  
**MONUMENT HILL CM LLC**  
 1864 WOODMOOR DRIVE  
 COLORADO SPRINGS, CO 80920  
 ATTN: JOE DESJARDIN  
 (719) 476-0800  
 JDESJARDIN@PROTERRACO.COM

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE AGENCIES, J.R. ENGINEERING WILL NOT BE RESPONSIBLE FOR ANY CHANGES OR IMPROVEMENTS DESIGNATED BY WRITTEN AUTHORIZATION.

**WP03 PROFILE  
 STA 1+00.00 TO 9+00.00**



LINE TABLE		
LINE	BEARING	DISTANCE
L33	N05°22'17"E	252.18'
L34	N02°07'51"E	5.00'
L35	N00°52'09"W	4.62'
L36	N44°07'51"E	168.31'
L37	N89°07'51"E	358.29'
L38	N77°52'51"E	10.00'
L39	N81°03'54"E	35.90'

**J.R. ENGINEERING**  
 A Westman Company  
 Centennial 303-740-3888 • Colorado Springs 719-593-2888  
 Fort Collins 970-491-8888 • www.jrengineering.com

No.	REVISION	BY	DATE

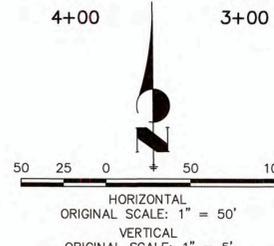
CLOVERLEAF FILING NO. 2  
 WATER DISTRIBUTION PLAN  
 SHEET 11 OF 25  
 JOB NO. 25158.01



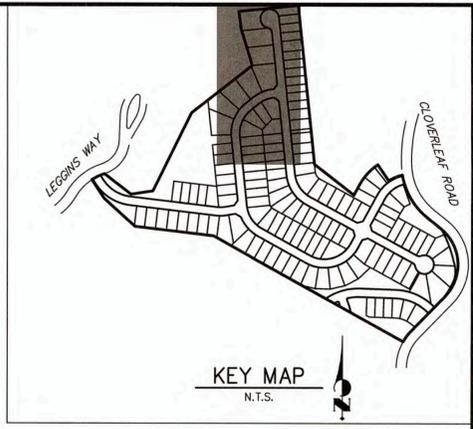
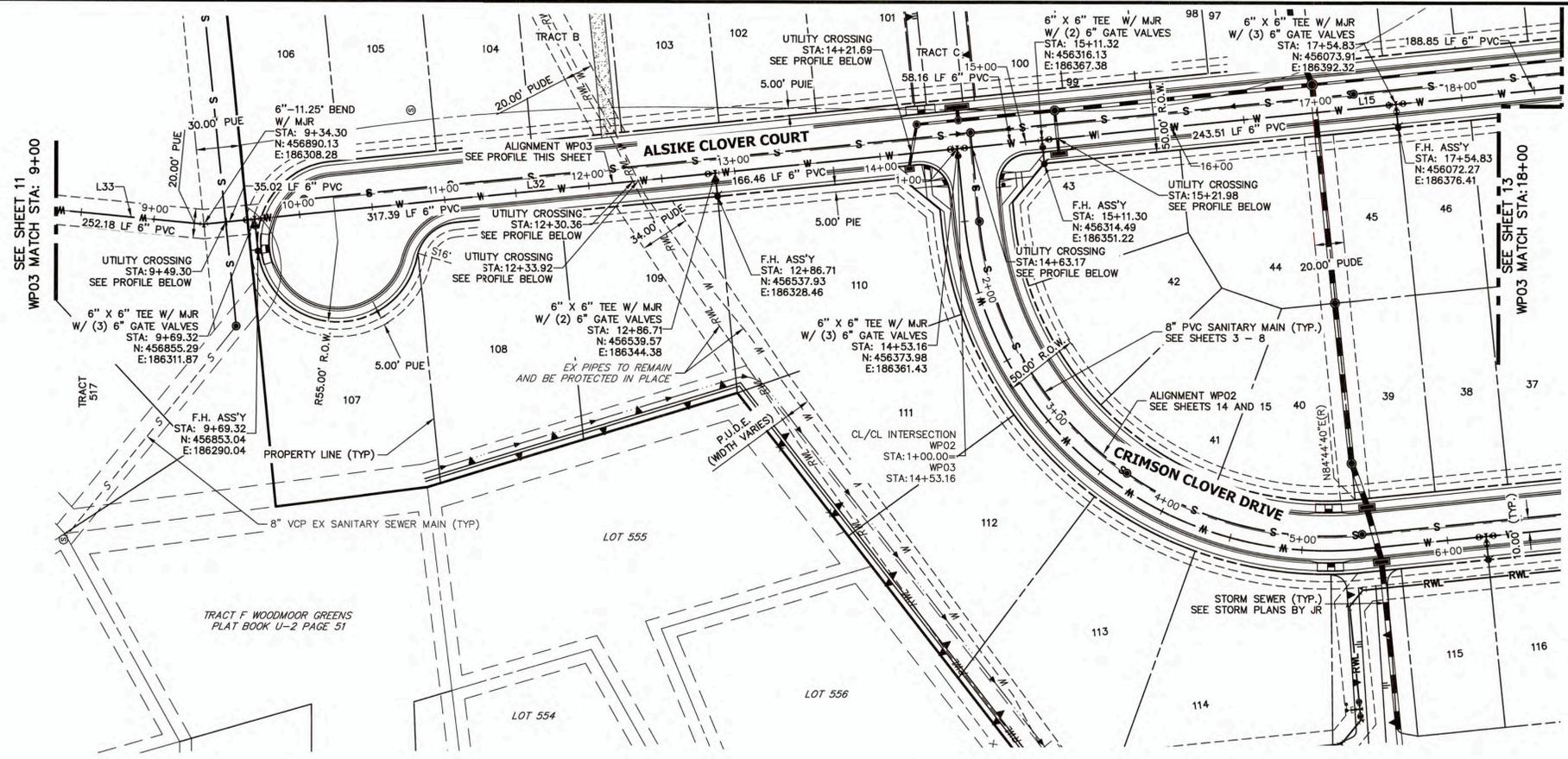
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**ENGINEER'S STATEMENT**  
 PREPARED UNDER MY SUPERVISION  
 Mike Bramlett  
 MIKE A. BRAMLETT, P.E.  
 COLORADO P.E. 32314  
 FOR AND ON BEHALF OF  
 J.R. ENGINEERING, LLC

- NOTES**
- DEFLECTION SHALL BE ACCOMPLISHED BY USING HIGH DEFLECTION COUPLINGS (HD COUPLING).
  - CURVE LINEAR ALIGNMENTS SHALL BE MADE USING HIGH DEFLECTION COUPLINGS. CONTRACTOR TO SUBMIT PRODUCT/MATERIAL SPECIFICATIONS TO WOODMOOR WATER AND SANITATION DISTRICT FOR APPROVAL PRIOR TO PURCHASE/CONSTRUCTION.
  - ALL PIPES WITH GREATER THAN 10% VERTICAL SLOPE SHALL BE RESTRAINED PER DETAIL W-11. SEE SHEET 24.
  - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH WOODMOOR WATER AND SANITATION DISTRICT AND EL PASO COUNTY.

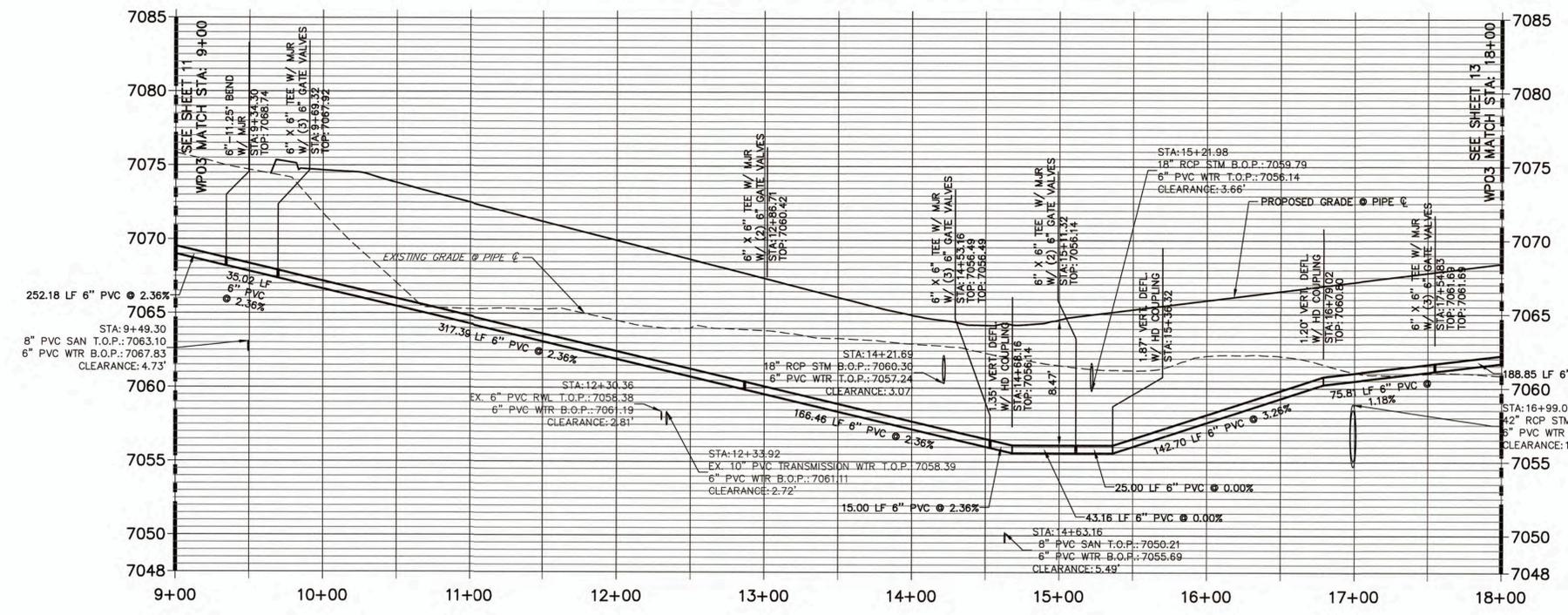


WOODMOOR WATER AND SANITATION DISTRICT NO. 1  
 APPROVED FOR CONSTRUCTION  
 DATE: 3/3/22 BY: JRH  
 THESE PLANS HAVE BEEN REVIEWED ONLY FOR GENERAL CONFORMANCE WITH DISTRICT RULES AND REGULATIONS AND SYSTEM SPECIFICATIONS. REVIEW AND CONSTRUCTION APPROVAL BY THE DISTRICT DOES NOT RELIEVE THE DEVELOPER/OWNER AND/OR CONTRACTOR FROM RESPONSIBILITY FOR COMPLIANCE WITH ANY RULES, REGULATIONS, OR SPECIFICATIONS REQUIRED BY THE DISTRICT.



LINE TABLE		
LINE	BEARING	DISTANCE
L15	S05°52'43"E	490.51'
L32	S05°52'43"E	430.87'

**WP03 PROFILE (1)**  
STA 9+00.00 TO 18+00.00



**NOTES**

- DEFLECTION SHALL BE ACCOMPLISHED BY USING HIGH DEFLECTION COUPLINGS (HD COUPLING).
- CURVE LINEAR ALIGNMENTS SHALL BE MADE USING HIGH DEFLECTION COUPLINGS. CONTRACTOR TO SUBMIT PRODUCT/MATERIAL SPECIFICATIONS TO WOODMOOR WATER AND SANITATION DISTRICT FOR APPROVAL PRIOR TO PURCHASE/CONSTRUCTION.
- ALL PIPES WITH GREATER THAN 10% VERTICAL SLOPE SHALL BE RESTRAINED PER DETAIL W-11, SEE SHEET 24.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH WOODMOOR WATER AND SANITATION DISTRICT AND EL PASO COUNTY.



HORIZONTAL  
ORIGINAL SCALE: 1" = 50'  
VERTICAL  
ORIGINAL SCALE: 1" = 5'

**ENGINEER'S STATEMENT**

PREPARED UNDER MY SUPERVISION  
*Mike A. Bramlett*  
MIKE A. BRAMLETT, P.E.  
COLORADO P.E. 32314  
FOR AND ON BEHALF OF  
JR ENGINEERING, LLC



WOODMOOR WATER AND SANITATION DISTRICT NO. 1  
APPROVED FOR CONSTRUCTION

DATE: 3/3/22 BY: ARH

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PREPARED FOR  
**MONUMENT HILL CM LLC**  
1864 WOODMOOR DRIVE  
COLORADO SPRINGS, CO 80920  
ATTN: JOE DESJARDIN  
(719) 476-0800  
JDESJARDIN@PROTERRACO.COM

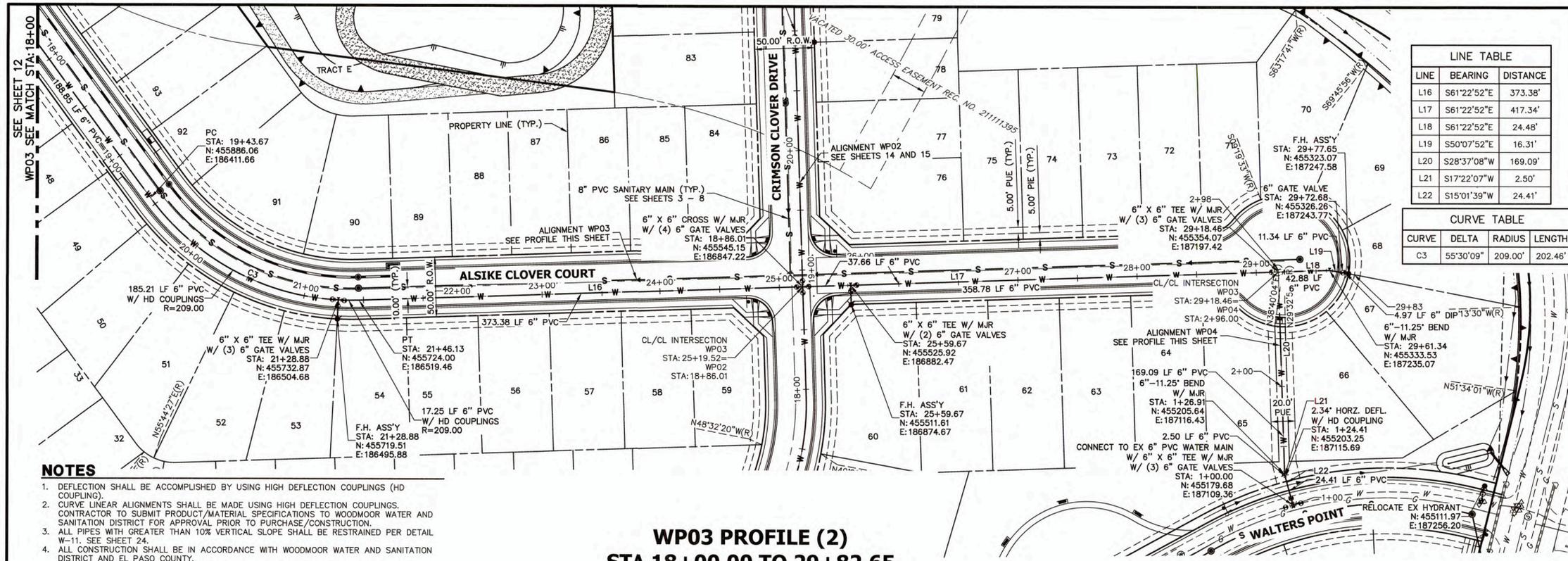
**JR ENGINEERING**  
A Westman Company  
Central 303-740-3333 • Colorado Springs 719-550-2533  
Fort Collins 970-491-8888 • www.jrengineering.com

NO.	REVISION	BY	DATE

CLOVERLEAF FILING NO. 2  
WATER DISTRIBUTION PLAN

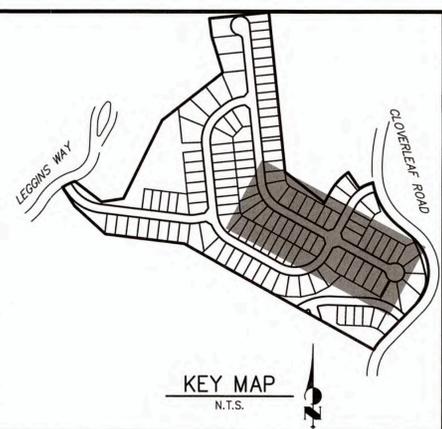


THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.



LINE TABLE		
LINE	BEARING	DISTANCE
L16	S61°22'52"E	373.38'
L17	S61°22'52"E	417.34'
L18	S61°22'52"E	24.48'
L19	S50°07'52"E	16.31'
L20	S28°37'08"W	169.09'
L21	S17°22'07"W	2.50'
L22	S15°01'39"W	24.41'

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C3	55°30'09"	209.00'	202.46'

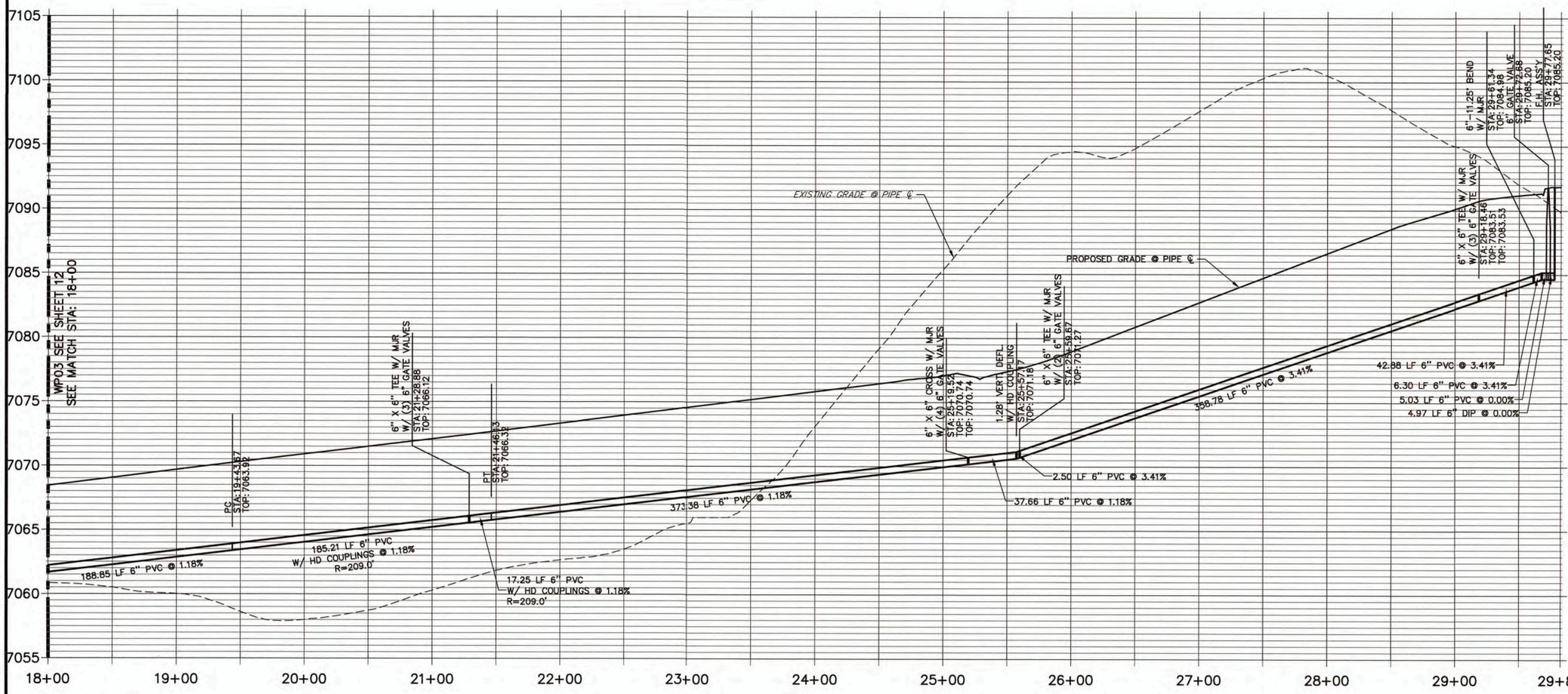


UNLIT SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE AGENCIES: JR ENGINEERING ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

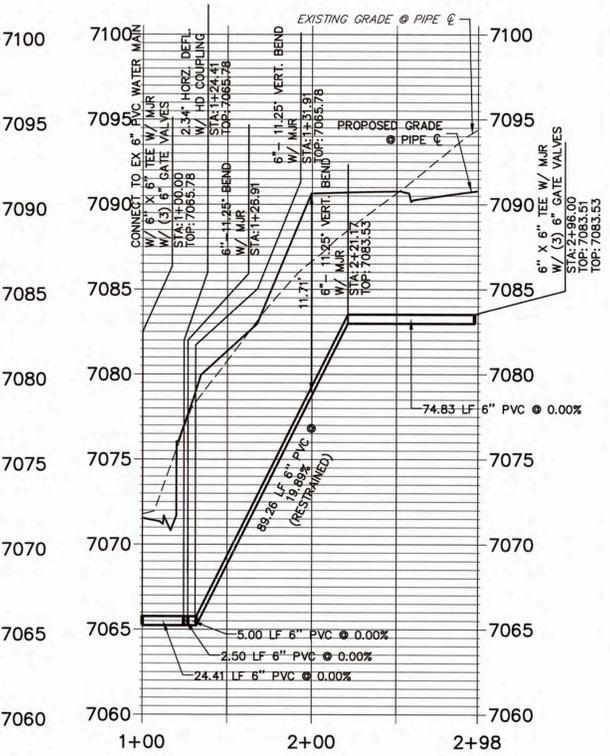
PREPARED FOR  
**MONUMENT HILL CM LLC**  
 1864 WOODMOOR DRIVE  
 COLORADO SPRINGS, CO 80920  
 ATTN: JOE DESJARDIN  
 (719) 476-0800  
 JDESJARDIN@PROTERRACO.COM

- NOTES**
1. DEFLECTION SHALL BE ACCOMPLISHED BY USING HIGH DEFLECTION COUPLINGS (HD COUPLING).
  2. CURVE LINEAR ALIGNMENTS SHALL BE MADE USING HIGH DEFLECTION COUPLINGS. CONTRACTOR TO SUBMIT PRODUCT/MATERIAL SPECIFICATIONS TO WOODMOOR WATER AND SANITATION DISTRICT FOR APPROVAL PRIOR TO PURCHASE/CONSTRUCTION.
  3. ALL PIPES WITH GREATER THAN 10% VERTICAL SLOPE SHALL BE RESTRAINED PER DETAIL W-11. SEE SHEET 24.
  4. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH WOODMOOR WATER AND SANITATION DISTRICT AND EL PASO COUNTY.

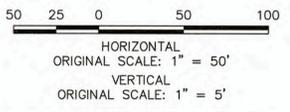
**WP03 PROFILE (2)  
 STA 18+00.00 TO 29+82.65**



**WP04 PROFILE  
 STA 1+00.00 TO 2+98.16**



**ENGINEER'S STATEMENT**  
 PREPARED UNDER MY SUPERVISION  
 MIKE A. BRAMLETT, P.E.  
 COLORADO P.E. 32314  
 FOR AND ON BEHALF OF  
 JR ENGINEERING, LLC



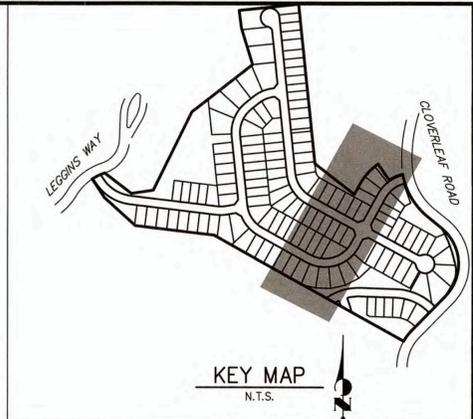
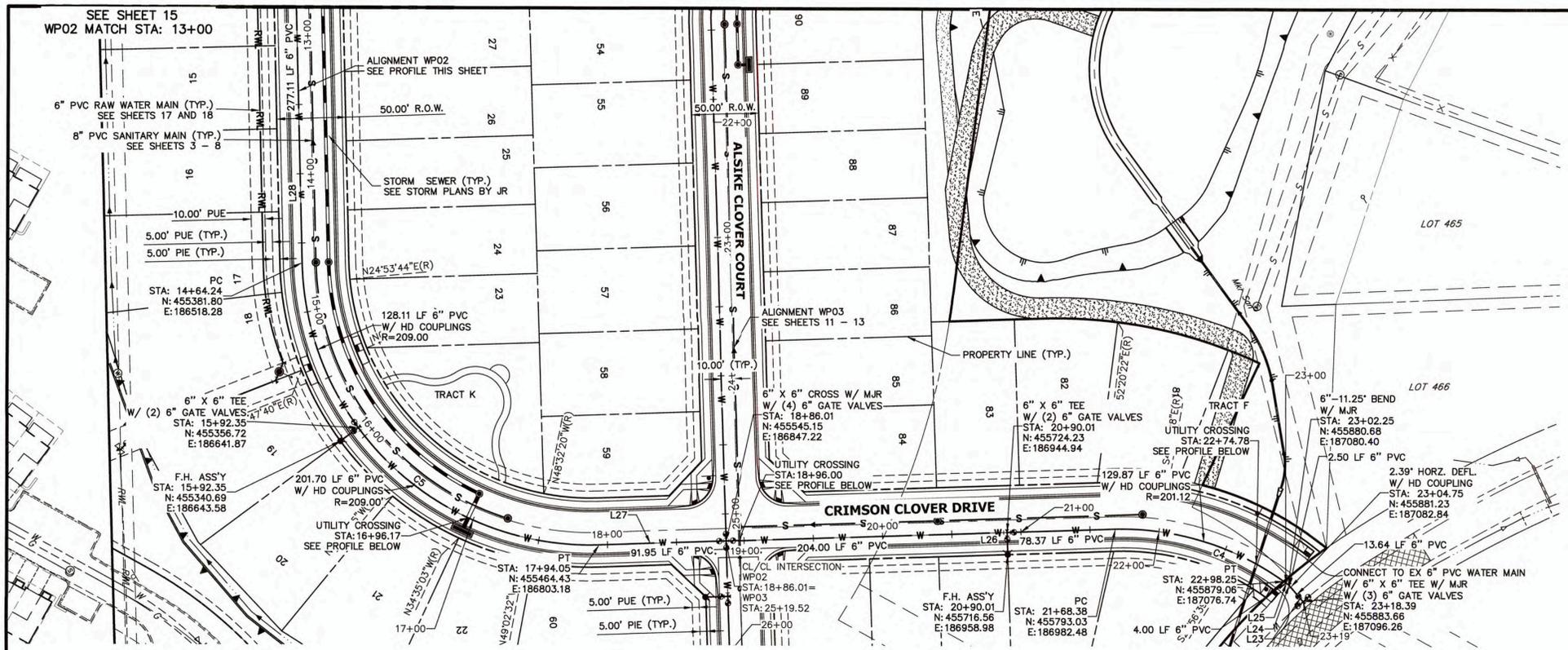
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WOODMOOR WATER AND SANITATION DISTRICT NO. 1  
 APPROVED FOR CONSTRUCTION  
 DATE: 3/3/22 BY: ARH

THESE PLANS HAVE BEEN REVIEWED ONLY FOR GENERAL CONFORMANCE WITH DISTRICT RULES AND REGULATIONS AND SYSTEM SPECIFICATIONS. REVIEW AND CONSTRUCTION APPROVAL BY THE DISTRICT DOES NOT RELIEVE THE DEVELOPER/OWNER AND/OR CONTRACTOR FROM RESPONSIBILITY FOR COMPLIANCE WITH ANY RULES, REGULATIONS, OR SPECIFICATIONS REQUIRED BY THE DISTRICT.

No.	REVISION	DATE	H-SCALE		V-SCALE		DESIGNED BY	DRAWN BY	CHECKED BY
			1"=50'	1"=5'	DATE	APL			

CLOVERLEAF FILING NO. 2  
 WATER DISTRIBUTION PLAN  
 SHEET 13 OF 25  
 JOB NO. 25158.01



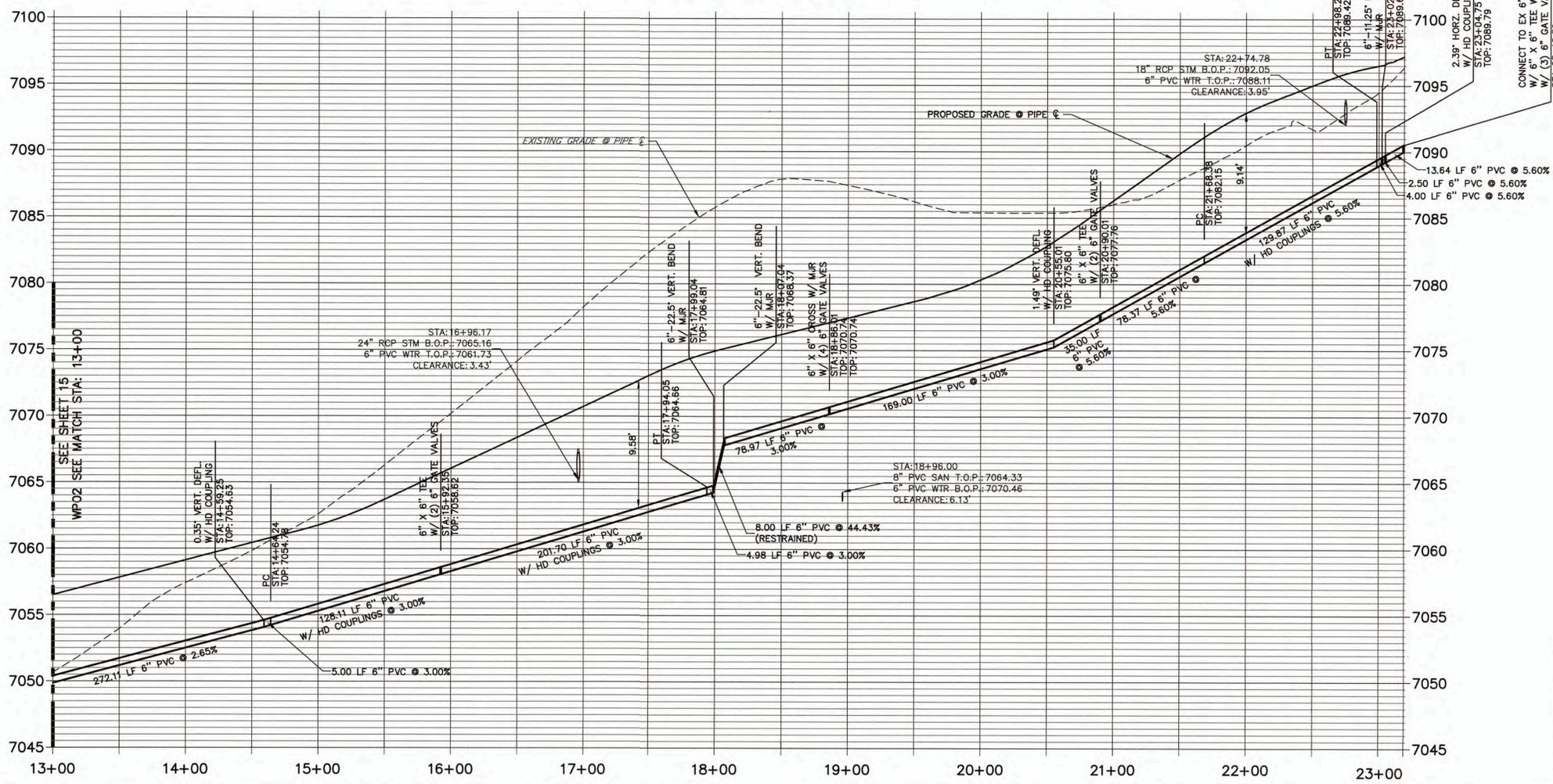
UNLESS OTHERWISE NOTED, THESE DRAWINGS ARE APPROVED BY THE DISTRICT ENGINEER. APPROVAL IS LIMITED TO THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR  
**MONUMENT HILL CM LLC**  
 1864 WOODMOOR DRIVE  
 COLORADO SPRINGS, CO 80920  
 ATTN: JOE DESJARDIN  
 (719) 476-0800  
 JDESJARDIN@PROTERRACO.COM

**NOTES**

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- CURVE LINEAR ALIGNMENTS SHALL BE MADE USING HIGH DEFLECTION COUPLINGS. CONTRACTOR TO SUBMIT PRODUCT/MATERIAL SPECIFICATIONS TO WOODMOOR WATER AND SANITATION DISTRICT FOR APPROVAL PRIOR TO PURCHASE/CONSTRUCTION.
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- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH WOODMOOR WATER AND SANITATION DISTRICT AND EL PASO COUNTY.

**WP02 PROFILE (2)  
 STA 13+00.00 TO 23+19.00**



**LINE TABLE**

LINE	BEARING	DISTANCE
L23	S79°44'54"W	13.64'
L24	S77°21'42"W	2.50'
L25	S66°06'42"W	4.00'
L26	S28°37'08"W	282.37'
L27	S28°37'08"W	91.95'
L28	N60°57'58"W	323.29'

**CURVE TABLE**

CURVE	DELTA	RADIUS	LENGTH
C4	36°59'51"	201.12'	129.87'
C5	90°24'53"	209.00'	329.81'

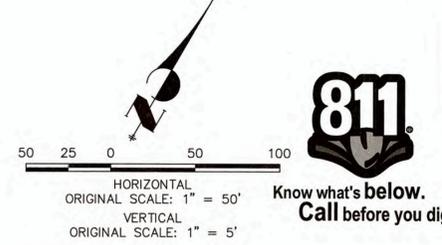
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**ENGINEER'S STATEMENT**

PREPARED UNDER MY SUPERVISION

*Mike Bramlett*  
 MIKE A. BRAMLETT, P.E.  
 COLORADO P.E. 32314  
 FOR AND ON BEHALF OF  
 JR ENGINEERING, LLC

DATE: 5/1/22



WOODMOOR WATER AND SANITATION DISTRICT NO. 1  
 APPROVED FOR CONSTRUCTION

DATE: 3/3/22 BY: ACH

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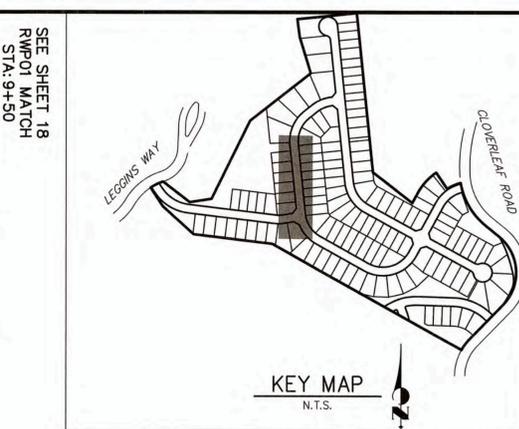
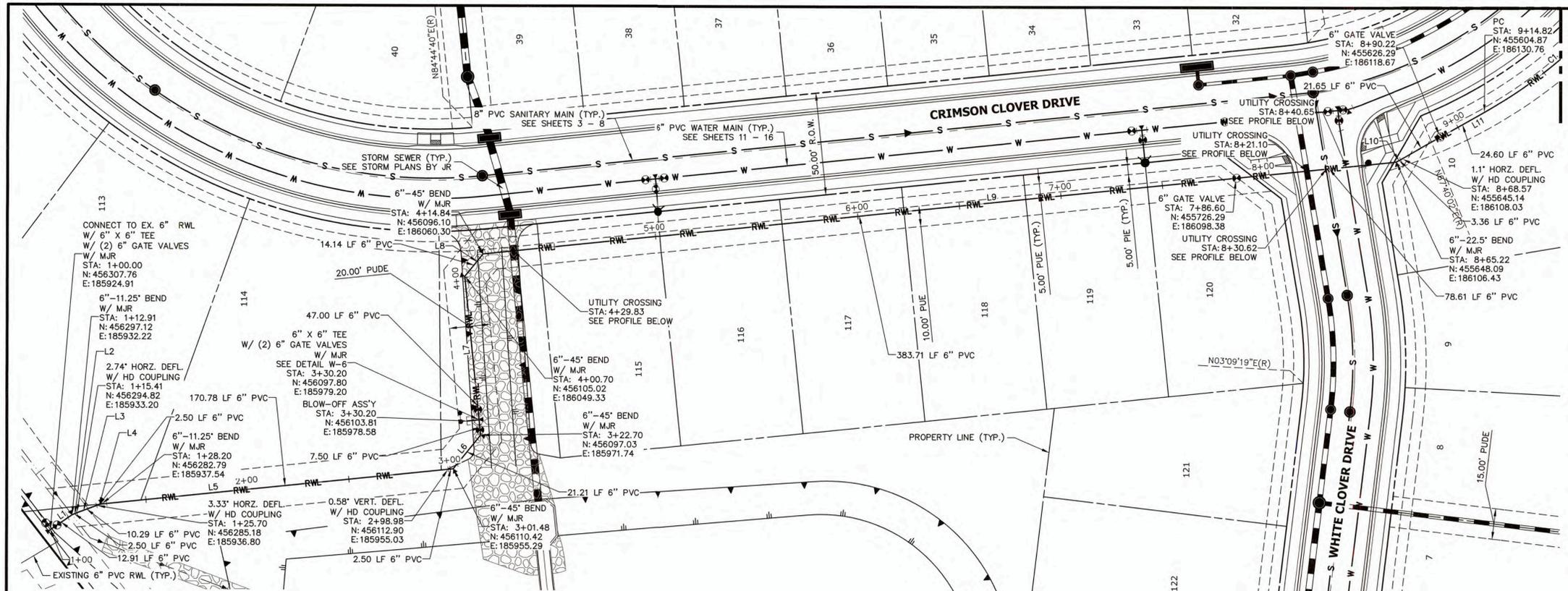
**JR ENGINEERING**  
 A Western Company  
 Centennial 303-740-3888 • Colorado Springs 719-592-2693  
 Fort Collins 970-491-8888 • www.jrengineering.com

No.	REVISION	DATE	BY

CLOVERLEAF FILING NO. 2  
 WATER DISTRIBUTION PLAN







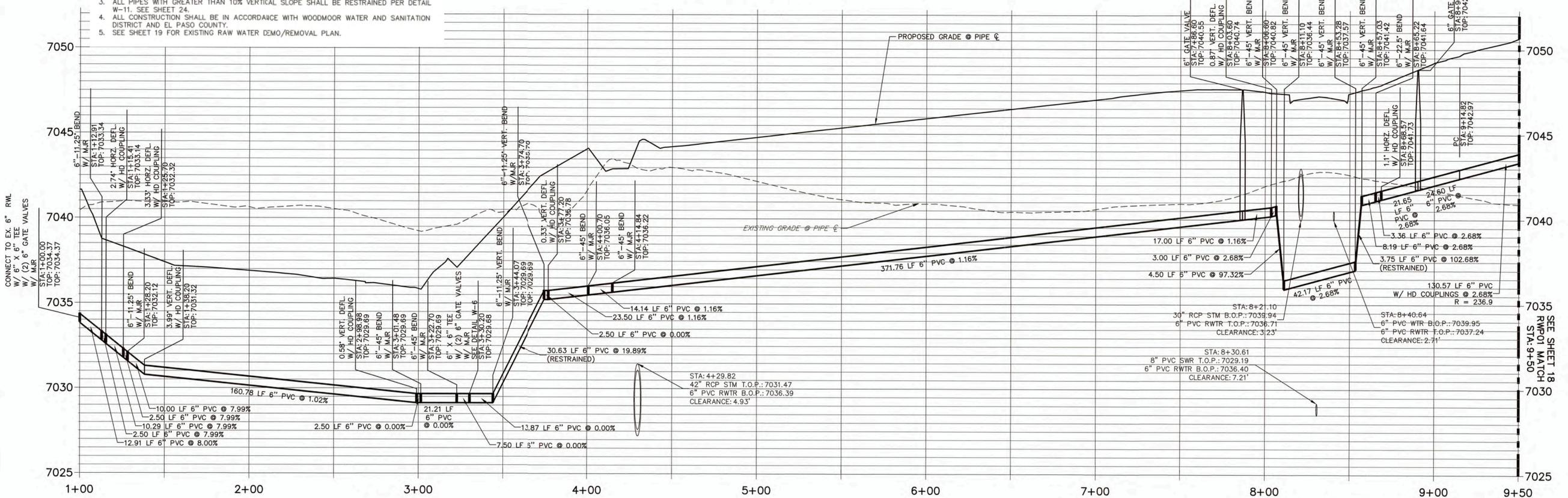
LINE	BEARING	DISTANCE
L1	S34°27'27\"E	12.91'
L2	S23°12'27\"E	2.50'
L3	S20°27'41\"E	10.29'
L4	S17°07'43\"E	2.50'
L5	S05°52'44\"E	173.28'
L6	S50°52'43\"E	21.21'
L7	N84°07'17\"E	78.00'
L8	S50°52'43\"E	14.14'
L9	S05°52'43\"E	450.38'
L10	S28°22'43\"E	3.36'
L11	S29°26'36\"E	46.23'

CURVE	DELTA	RADIUS	LENGTH
C1	31°30'13\"	236.92'	130.27'

**RWP01 PROFILE  
STA 1+00.00 TO 9+50.00**

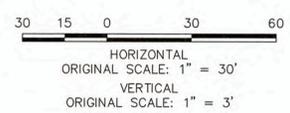
**NOTES**

- DEFLECTION SHALL BE ACCOMPLISHED BY USING HIGH DEFLECTION COUPLINGS.
- CURVE LINEAR ALIGNMENTS SHALL BE MADE USING HIGH DEFLECTION COUPLINGS.
- CONTRACTOR TO SUBMIT PRODUCT/MATERIAL SPECIFICATIONS TO WOODMOOR WATER AND SANITATION DISTRICT FOR APPROVAL PRIOR TO PURCHASE/CONSTRUCTION.
- ALL PIPES WITH GREATER THAN 10% VERTICAL SLOPE SHALL BE RESTRAINED PER DETAIL W-11. SEE SHEET 24.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH WOODMOOR WATER AND SANITATION DISTRICT AND EL PASO COUNTY.
- SEE SHEET 19 FOR EXISTING RAW WATER DEMO/REMOVAL PLAN.



THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.

**ENGINEER'S STATEMENT**  
 PREPARED UNDER MY SUPERVISION  
 Mike A. Bramlett, P.E.  
 COLORADO P.E. 32314  
 FOR AND ON BEHALF OF  
 JR ENGINEERING, LLC



WOODMOOR WATER AND SANITATION DISTRICT NO. 1  
 APPROVED FOR CONSTRUCTION  
 DATE: 3/3/22 BY: [Signature]  
 THESE PLANS HAVE BEEN REVIEWED ONLY FOR GENERAL CONFORMANCE WITH DISTRICT RULES AND REGULATIONS AND SYSTEM SPECIFICATIONS. REVIEW AND CONSTRUCTION APPROVAL BY THE DISTRICT DOES NOT RELIEVE THE DEVELOPER/OWNER AND/OR CONTRACTOR FROM RESPONSIBILITY FOR COMPLIANCE WITH ANY RULES, REGULATIONS, OR SPECIFICATIONS REQUIRED BY THE DISTRICT.

PREPARED FOR  
**MONUMENT HILL CM LLC**  
 1864 WOODMOOR DRIVE  
 COLORADO SPRINGS, CO 80920  
 ATTN: JOE DESJARDIN  
 (719) 476-0800  
 JDESJARDIN@PROTERRACO.COM

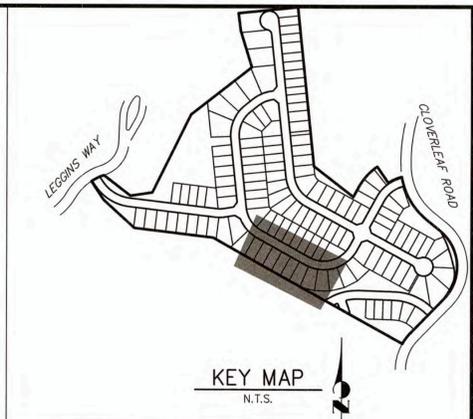
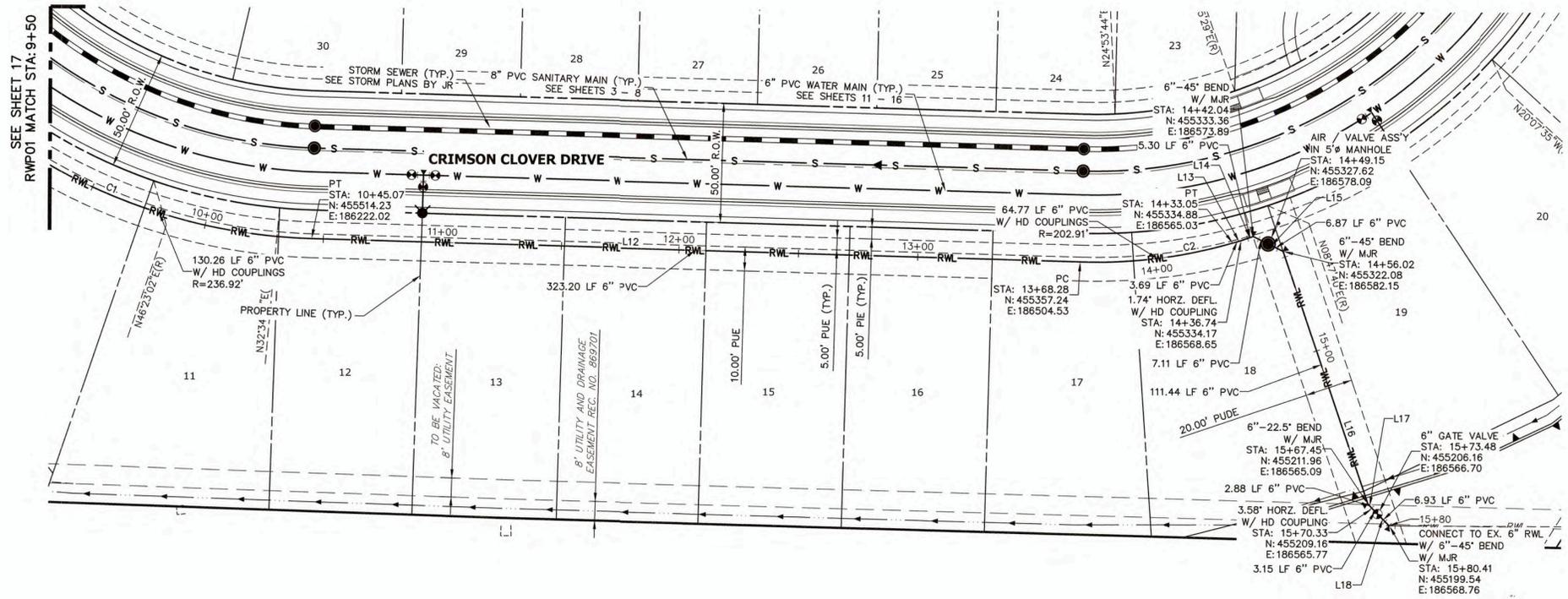
**JR ENGINEERING**  
 A Westman Company  
 Centennial 303-740-3333 • Colorado Springs 719-559-2553  
 Fort Collins 970-491-9888 • www.jrengineering.com

NO.	REVISION	BY	DATE

H-SCALE 1"=30'  
 V-SCALE 1"=3'  
 DATE 03/03/22  
 DESIGNED BY APF  
 DRAWN BY SAV  
 CHECKED BY

CLOVERLEAF FILING NO. 2  
 RAW WATER PLAN

SHEET 17 OF 25  
 JOB NO. 25158.01



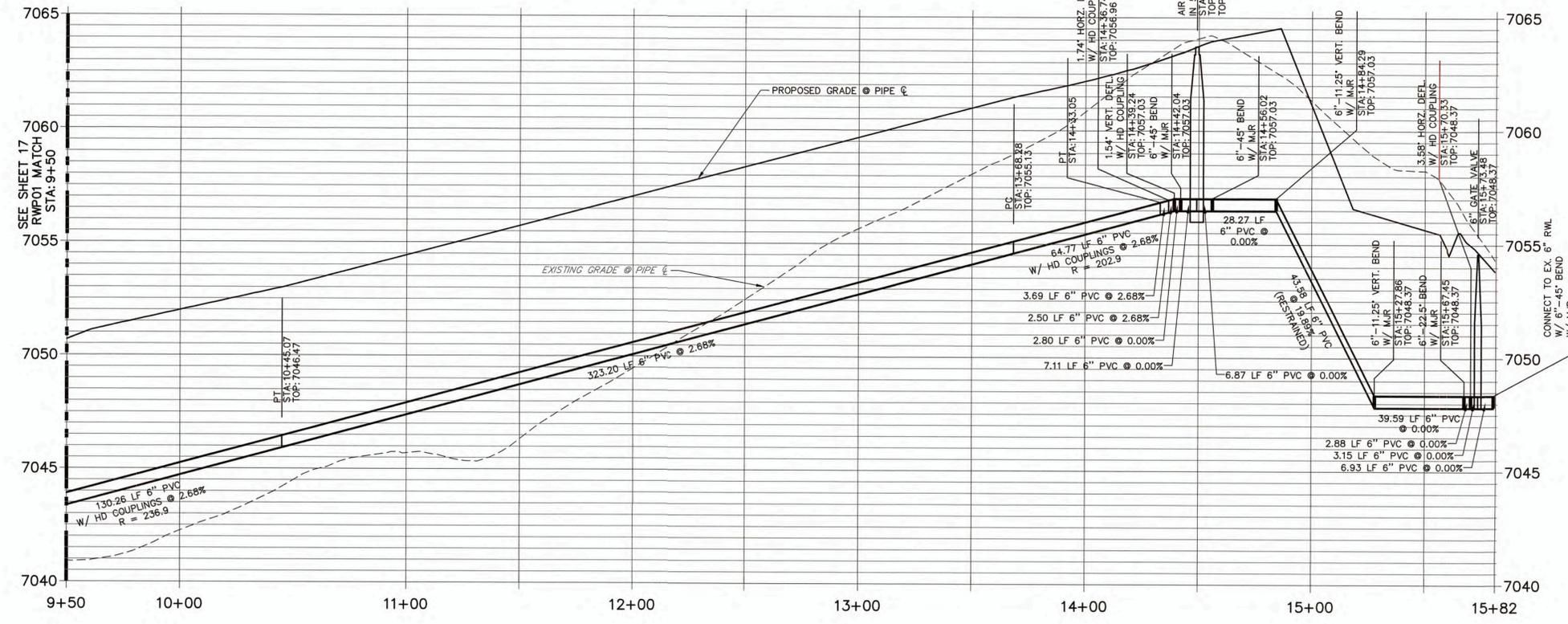
**NOTES**

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- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH WOODMOOR WATER AND SANITATION DISTRICT AND EL PASO COUNTY.
- SEE SHEET 19 FOR EXISTING RAW WATER DEMO/REMOVAL PLAN.

LINE TABLE		
LINE	BEARING	DISTANCE
L12	S60°56'23"E	323.20'
L13	S78°51'52"E	3.69'
L14	S81°11'33"E	5.30'
L15	S36°11'33"E	13.98'
L16	S08°48'27"W	111.44'
L17	S13°41'33"E	2.88'
L18	S17°16'07"E	10.08'

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C1	31°30'13"	236.92'	130.27'
C2	187°12'25"	202.91'	64.77'

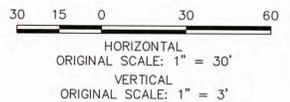
**RWP02 PROFILE  
STA 9+50.00 TO 15+81.50**



THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.

**ENGINEER'S STATEMENT**

PREPARED UNDER MY SUPERVISION  
*Mike Bramlett*  
 MIKE A. BRAMLETT, P.E.  
 COLORADO P.E. 32314  
 FOR AND ON BEHALF OF  
 JR ENGINEERING, LLC



WOODMOOR WATER AND SANITATION DISTRICT NO. 1  
 APPROVED FOR CONSTRUCTION

DATE: 3/3/22 BY: ARH

THESE PLANS HAVE BEEN REVIEWED ONLY FOR GENERAL CONFORMANCE WITH DISTRICT RULES AND REGULATIONS AND SYSTEM SPECIFICATIONS. REVIEW AND CONSTRUCTION APPROVAL BY THE DISTRICT DOES NOT RELIEVE THE DEVELOPER/OWNER AND/OR CONTRACTOR FROM RESPONSIBILITY FOR COMPLIANCE WITH ANY RULES, REGULATIONS, OR SPECIFICATIONS REQUIRED BY THE DISTRICT.

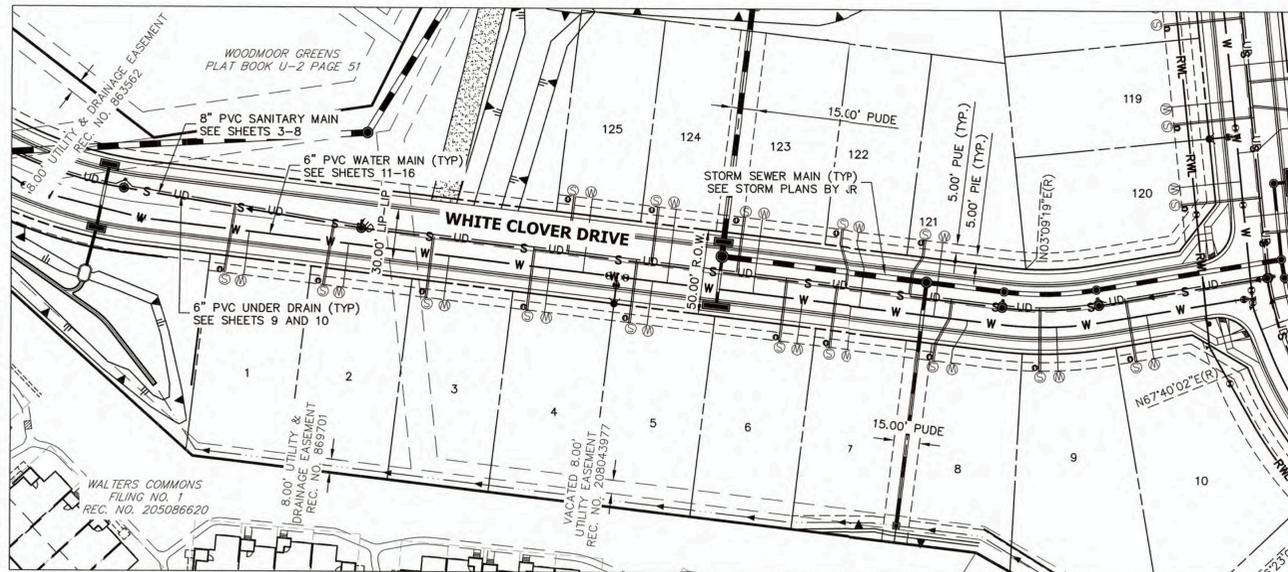
UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.  
 PREPARED FOR  
**MONUMENT HILL CM LLC**  
 1864 WOODMOOR DRIVE  
 COLORADO SPRINGS, CO 80920  
 ATTN: JOE DESJARDIN  
 (719) 476-0800  
 JDESJARDIN@PROTERRACCO.COM

**JR ENGINEERING**  
 A Westrian Company  
 Centennial 303-740-8888 • Colorado Springs 719-589-2588  
 Fort Collins 970-491-8888 • www.jrengineering.com

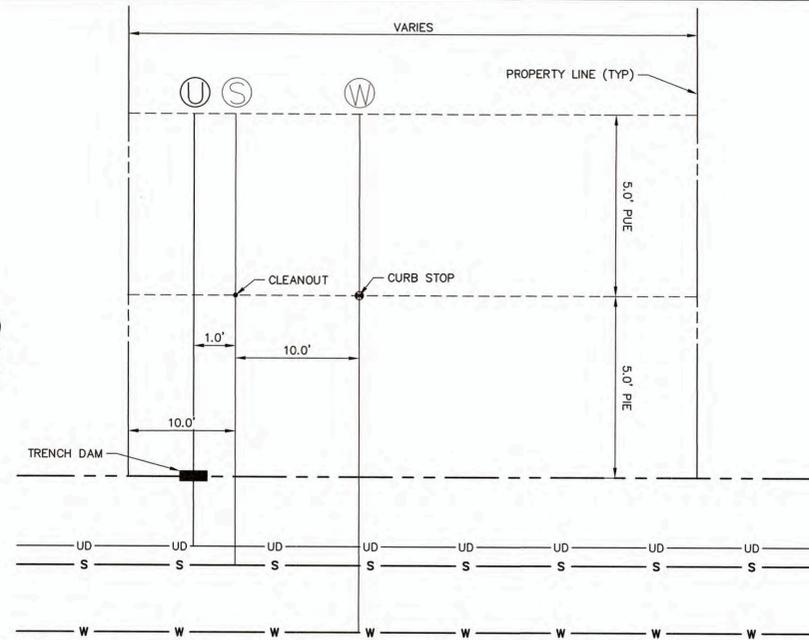
NO.	REVISION	BY	DATE

CLOVERLEAF FILING NO. 2  
 RAW WATER PLAN  
 SHEET 18 OF 25  
 JOB NO. 25158.01

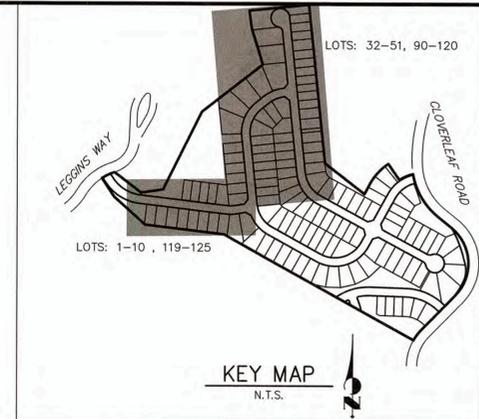




LOTS: 1-10 , 119-125

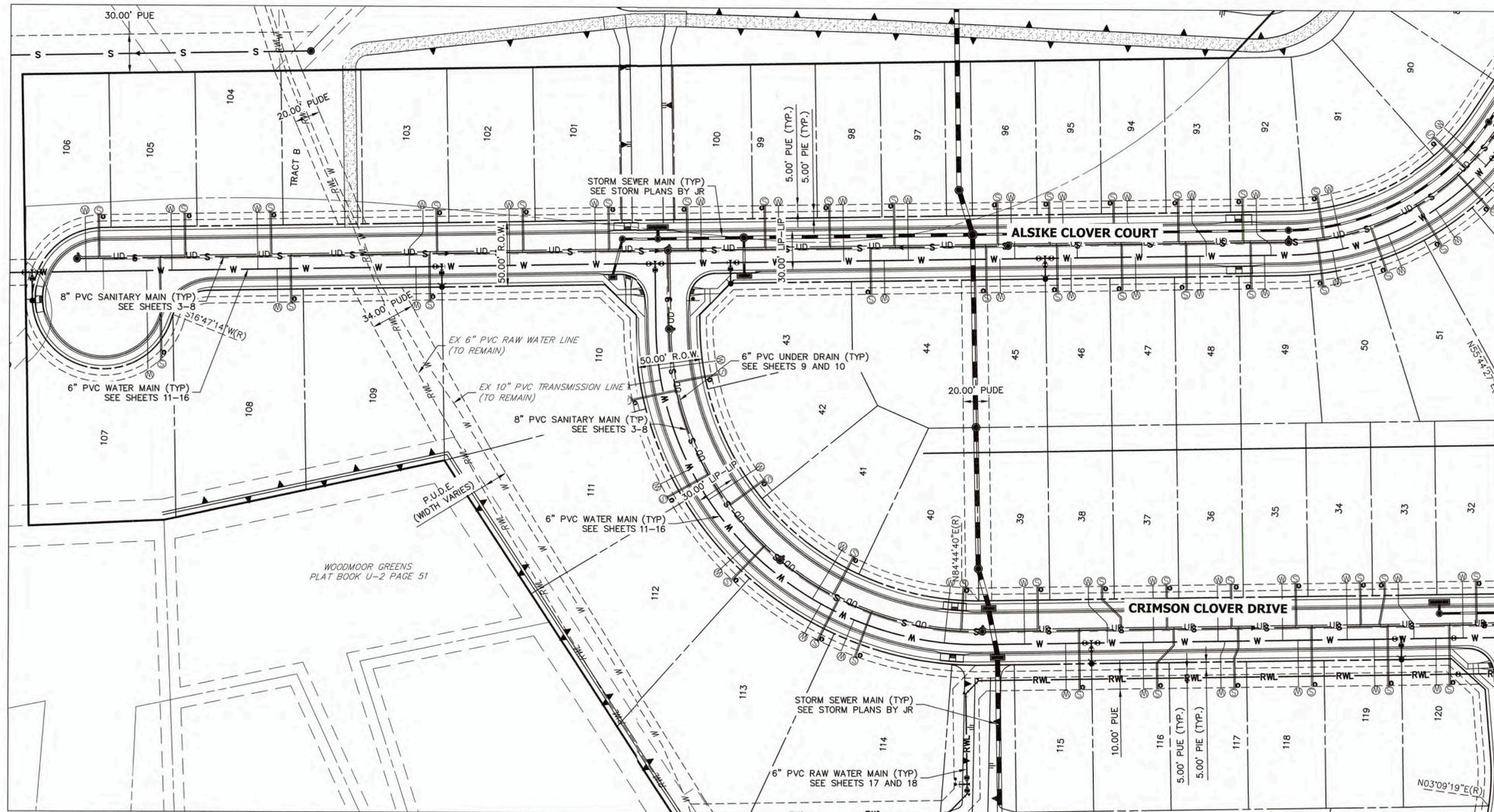


TYPICAL UTILITY SERVICE LAYOUT  
N.T.S.



PREPARED FOR  
**MONUMENT HILL CM LLC**  
 1864 WOODMOOR DRIVE  
 COLORADO SPRINGS, CO 80920  
 ATTN: JOE DESJARDIN  
 (719) 476-0800  
 JDESJARDIN@PROTERRACO.COM

**J.R. ENGINEERING**  
 A Westland Company  
 Centennial 303-740-5888 • Colorado Springs 719-592-2588  
 Fort Collins 970-491-8888 • www.jrengineering.com



LOTS: 32-51 , 90-120

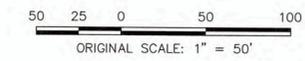


**NOTES**

- ALL SANITARY SERVICE LINES SHALL BE 4" PVC AND INSTALLED PER DETAIL G-8.
- ALL POTABLE WATER SERVICE LINES SHALL BE 3/4" TYPE K COPPER AND INSTALLED PER DETAIL G-6.
- A MINIMUM OF 10' SEPARATION BETWEEN WATER AND SANITARY LINES IS REQUIRED. SERVICE SHALL BE AT LEAST 10' AWAY FROM SIDE LOT LINES, PER DETAIL G-5.
- ALL SANITARY SEWER TAPS MUST BE A MINIMUM OF 5' FROM OTHER SANITARY SEWER TAPS, JOINTS, AND MANHOLES.
- ALL WATER SERVICE TAPS MUST BE A MINIMUM OF 30" FROM VALVES, FITTINGS, AND JOINTS, AND 5' FROM OTHER WATER TAPS.
- PROVIDE METAL T-POST AT CURB STOP WHEN CONSTRUCTION OF WATER SERVICE IS COMPLETE.
- PROVIDE METAL T-POST AT CLEAN OUT WHEN CONSTRUCTION OF SANITARY SERVICE IS COMPLETE.
- SERVICES STUB OUTS SHALL EXTENDED TO THE INSIDE EDGE OF FRONT UTILITY EASEMENT PER DETAILS G-8 AND G-6.
- ALL UNDER DRAIN SERVICES SHALL BE INSTALLED PER COLORADO SPRINGS UTILITY FIGURE 13-3. SEE SHEET 10.
- SEE THIS SHEET FOR TYPICAL UTILITY SERVICE LAYOUT.
- SANITARY SERVICES SHALL HAVE A MINIMUM SLOPE OF 2%.
- SERVICES SHALL EXTEND TO THE 20' PUBLIC UTILITY EASEMENT FOR LOTS 115-120 AND 11-18.

**ENGINEER'S STATEMENT**

PREPARED UNDER MY SUPERVISION  
  
 MIKE A. BRAMLETT, P.E.  
 COLORADO P.E. 32314  
 FOR AND ON BEHALF OF  
 J.R. ENGINEERING, LLC



WOODMOOR WATER AND SANITATION DISTRICT NO. 1  
 APPROVED FOR CONSTRUCTION

DATE: 3/3/22 BY: JED

THESE PLANS HAVE BEEN REVIEWED ONLY FOR GENERAL CONFORMANCE WITH DISTRICT RULES AND REGULATIONS AND SYSTEM SPECIFICATIONS. REVIEW AND CONSTRUCTION APPROVAL BY THE DISTRICT DOES NOT RELIEVE THE DEVELOPER/OWNER AND/OR CONTRACTOR FROM RESPONSIBILITY FOR COMPLIANCE WITH ANY RULES, REGULATIONS, OR SPECIFICATIONS REQUIRED BY THE DISTRICT.

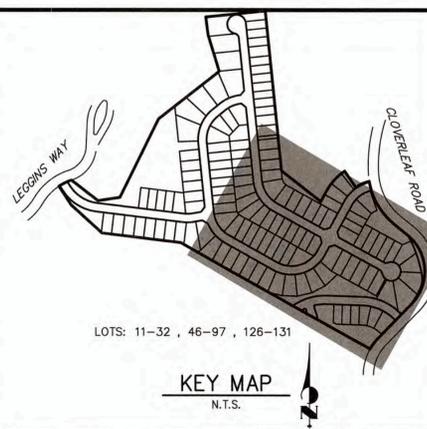
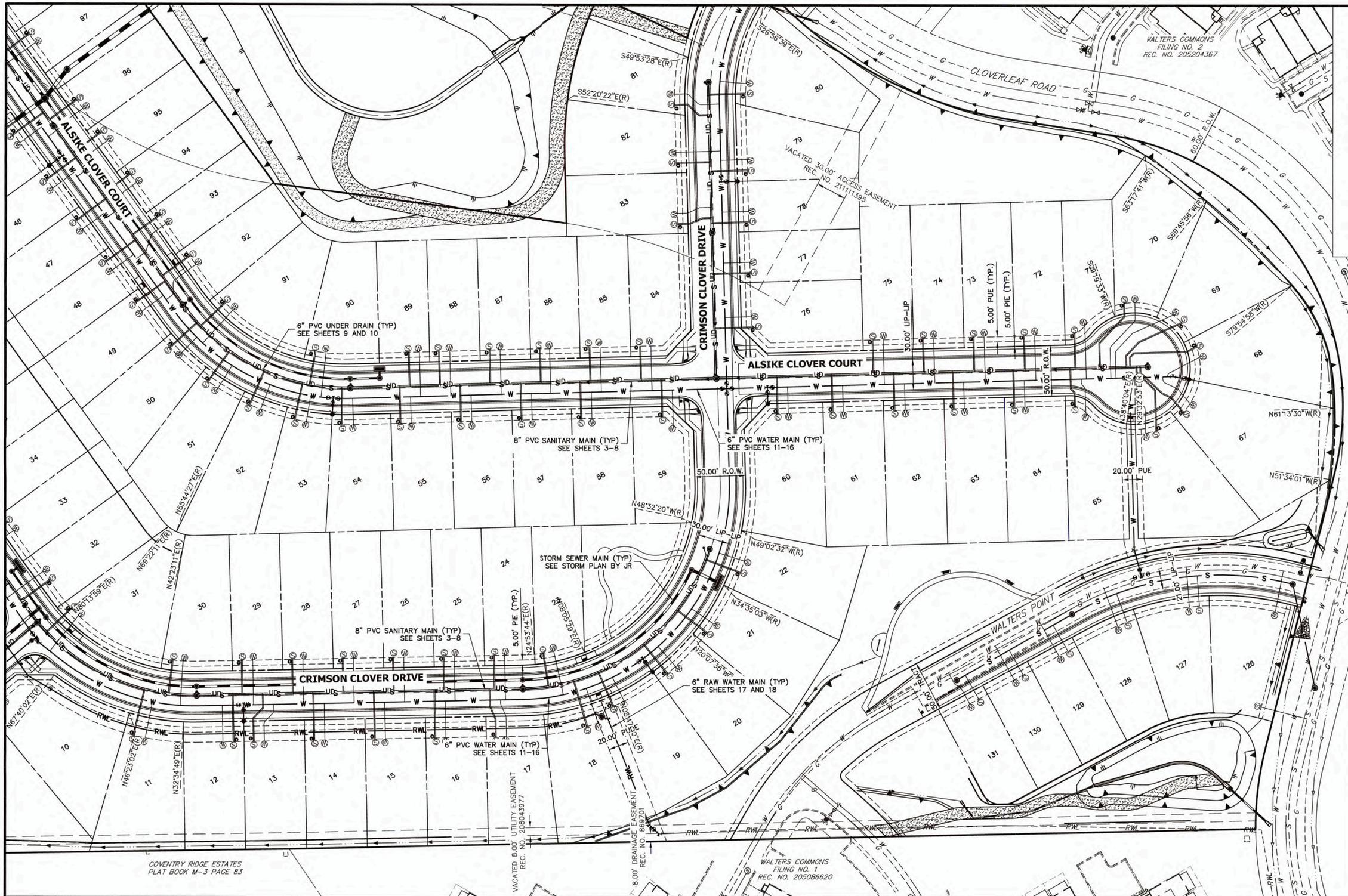
NO.	REVISION	DATE

H-SCALE	1"=50'
V-SCALE	N/A
DATE	03/03/22
DESIGNED BY	APL
DRAWN BY	APL
CHECKED BY	

CLOVERLEAF FILING NO. 2
UTILITY SERVICE PLAN
SHEET 20 OF 25
JOB NO. 25158.01



UNLESS SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE ENGINEERING AGENCIES, THE ENGINEER APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR  
**MONUMENT HILL CM LLC**  
 1864 WOODMOOR DRIVE  
 COLORADO SPRINGS, CO 80920  
 ATTN: JOE DESJARDIN  
 (719) 476-0800  
 JDESJARDIN@PROTERRACO.COM

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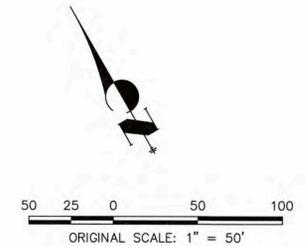
NO.	REVISION	BY	DATE

**ENGINEER'S STATEMENT**  
 PREPARED UNDER MY SUPERVISION  
  
 MIKE A. BRAMLETT, P.E.  
 COLORADO P.E. 32314  
 FOR AND ON BEHALF OF  
 JR ENGINEERING, LLC

LOTS: 11-32 , 46-97 , 126-131

**NOTES**

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2. ALL POTABLE WATER SERVICE LINES SHALL BE 3/4" TYPE K COPPER AND INSTALLED PER DETAIL G-6.
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7. PROVIDE METAL T-POST AT CLEAN OUT WHEN CONSTRUCTION OF SANITARY SERVICE IS COMPLETE.
8. SERVICES STUB OUTS SHALL EXTENDED TO THE INSIDE EDGE OF FRONT UTILITY EASEMENT PER DETAILS G-8 AND G-6.
9. ALL UNDER DRAIN SERVICES SHALL BE INSTALLED PER COLORADO SPRINGS UTILITY FIGURE 13-3. SEE SHEET 10.
10. SEE THIS SHEET FOR TYPICAL UTILITY SERVICE LAYOUT.
11. SANITARY SERVICES SHALL HAVE A MINIMUM SLOPE OF 2%.
12. SERVICES SHALL EXTEND TO THE 20' PUBLIC UTILITY EASEMENT FOR LOTS 116-121 AND 11-18.

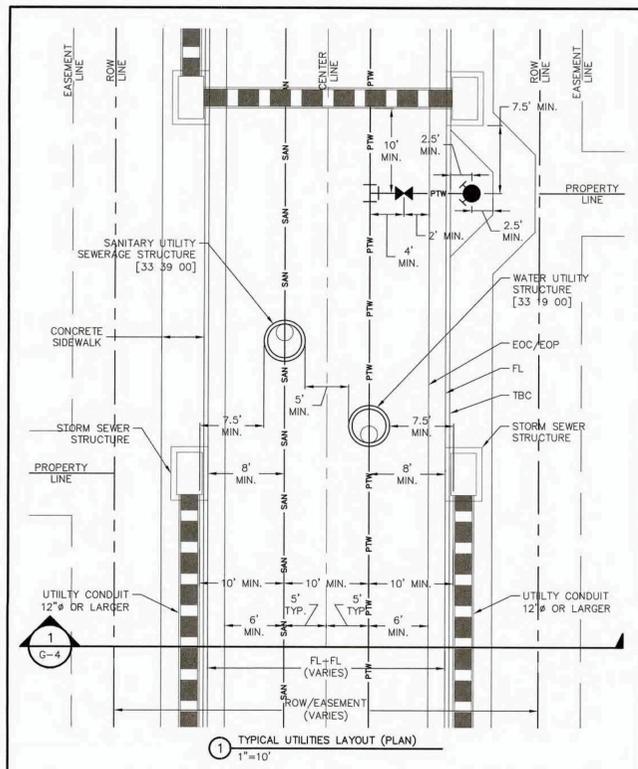


WOODMOOR WATER AND SANITATION DISTRICT NO. 1  
 APPROVED FOR CONSTRUCTION  
 DATE: 3/3/22 BY:

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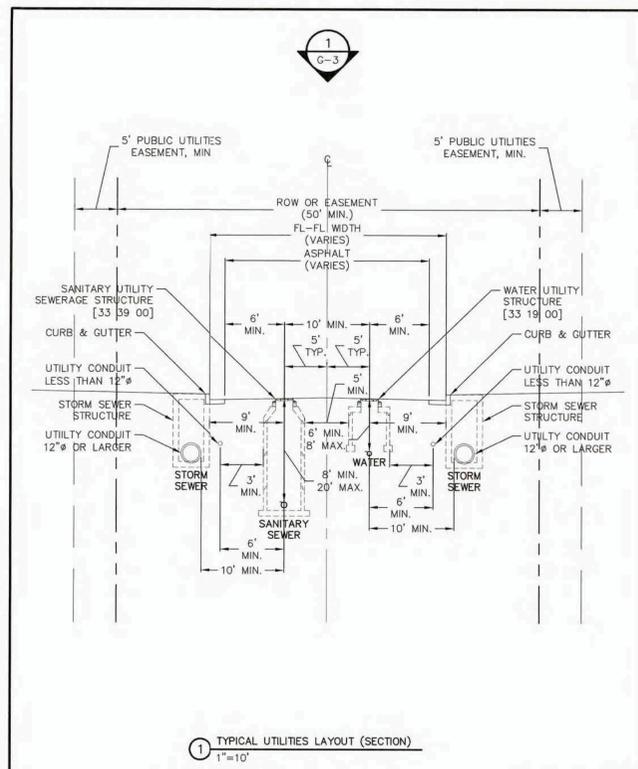
CLOVERLEAF FILING NO. 2  
 UTILITY SERVICE PLAN  
 SHEET 21 OF 25  
 JOB NO. 25158.01



**WOODMOOR**  
WATER & SANITATION DISTRICT NO. 1

TYPICAL UTILITIES LAYOUT (PLAN)  
GENERAL  
G-3

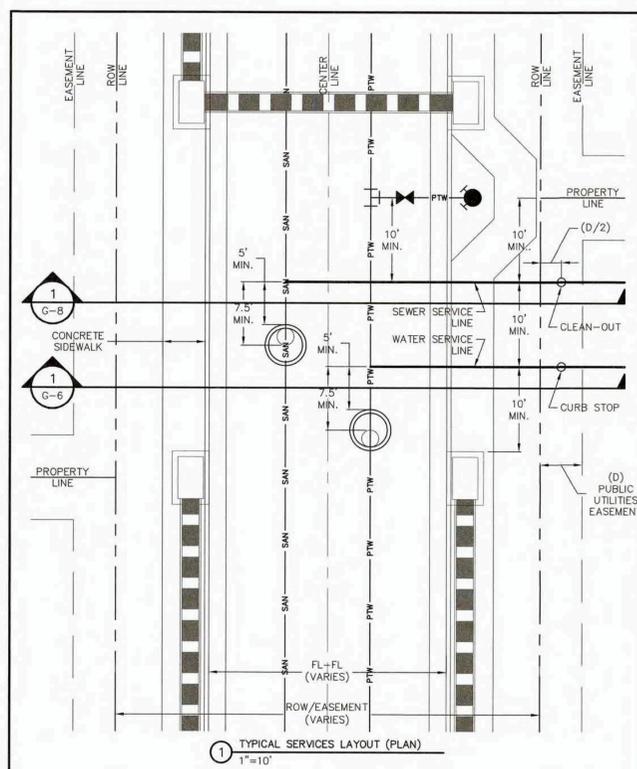
THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS.  
MAY 13, 2014



**WOODMOOR**  
WATER & SANITATION DISTRICT NO. 1

TYPICAL UTILITIES LAYOUT (SECTION)  
GENERAL  
G-4

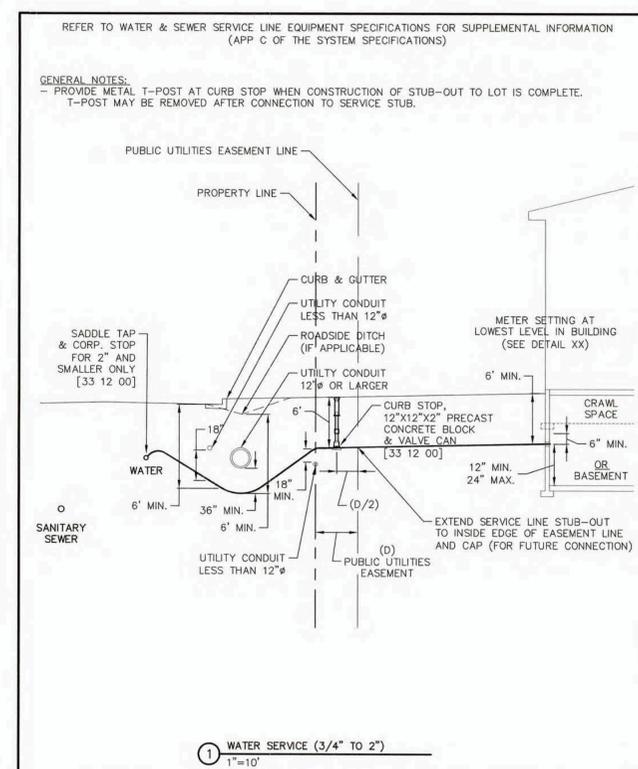
THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS.  
MAY 13, 2014



**WOODMOOR**  
WATER & SANITATION DISTRICT NO. 1

TYPICAL SERVICES LAYOUT (PLAN)  
GENERAL  
G-5

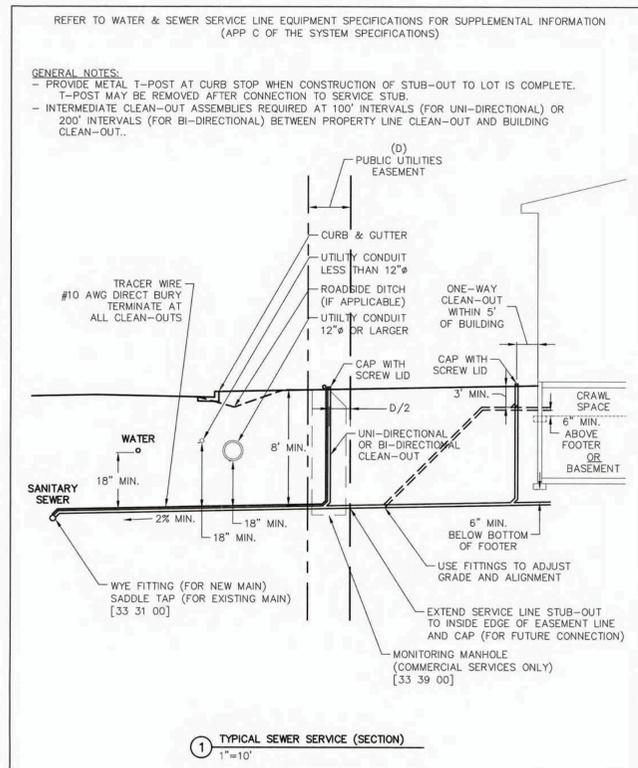
THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS.  
MAY 13, 2014



**WOODMOOR**  
WATER & SANITATION DISTRICT NO. 1

WATER SERVICE (3/4" TO 2")  
GENERAL  
G-6

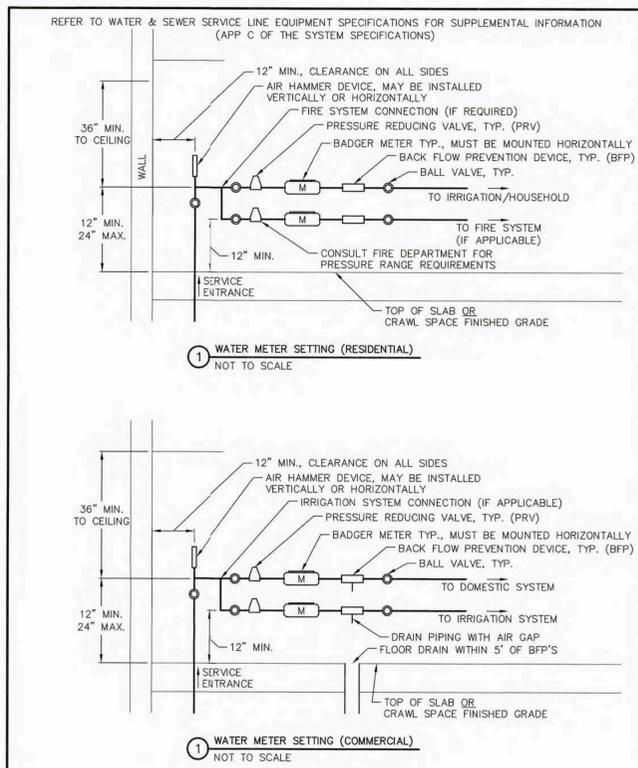
THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS.  
MAY 13, 2014



**WOODMOOR**  
WATER & SANITATION DISTRICT NO. 1

TYPICAL SEWER SERVICE (SECTION)  
GENERAL  
G-8

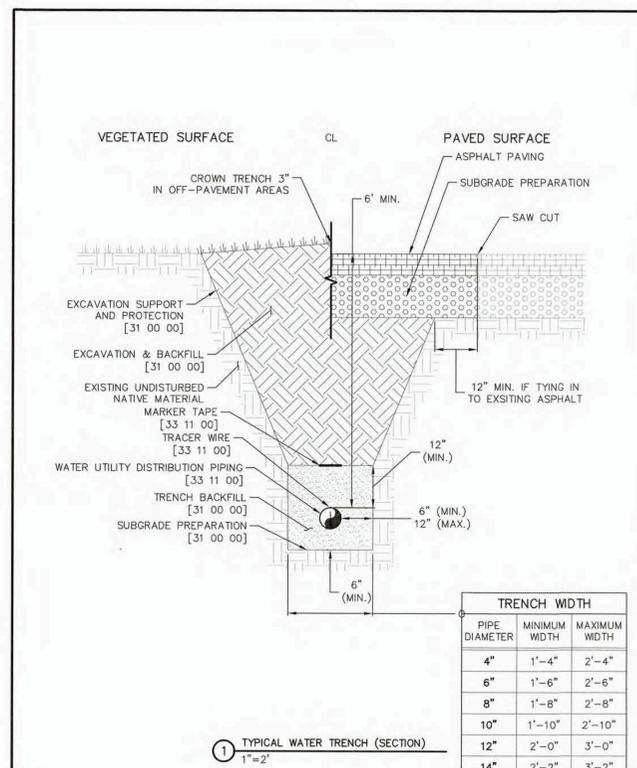
THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS.  
MAY 13, 2014



**WOODMOOR**  
WATER & SANITATION DISTRICT NO. 1

WATER METER SETTING DETAIL  
GENERAL  
G-9

THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS.  
MAY 13, 2014



**WOODMOOR**  
WATER & SANITATION DISTRICT NO. 1

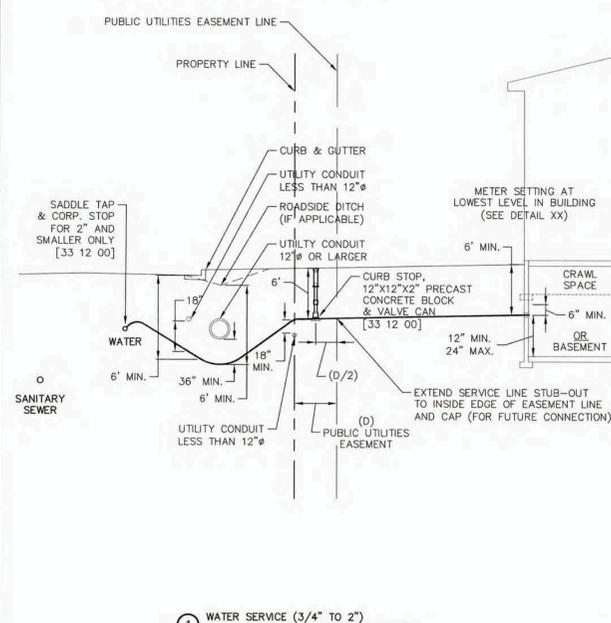
TYPICAL WATER TRENCH  
WATER UTILITY DISTRIBUTION PIPING  
W-1

THIS CONSTRUCTION DETAIL SHOWS GENERAL CONFORMANCE TO SYSTEM SPECIFICATIONS AND MAY NEED TO BE ADJUSTED FOR SPECIFIC APPLICATIONS.  
MAY 13, 2014

TRENCH WIDTH		
PIPE DIAMETER	MINIMUM WIDTH	MAXIMUM WIDTH
4"	1'-4"	2'-4"
6"	1'-6"	2'-6"
8"	1'-8"	2'-8"
10"	1'-10"	2'-10"
12"	2'-0"	3'-0"
14"	2'-2"	3'-2"

REFER TO WATER & SEWER SERVICE LINE EQUIPMENT SPECIFICATIONS FOR SUPPLEMENTAL INFORMATION (APP C OF THE SYSTEM SPECIFICATIONS)

GENERAL NOTES:  
- PROVIDE METAL T-POST AT CURB STOP WHEN CONSTRUCTION OF STUB-OUT TO LOT IS COMPLETE. T-POST MAY BE REMOVED AFTER CONNECTION TO SERVICE STUB.



UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE AGENCIES, THE ENGINEER PROVIDES THE PLAN PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR  
**MONUMENT HILL CM LLC**  
1864 WOODMOOR DRIVE  
COLORADO SPRINGS, CO 80920  
ATTN: JOE DESJARDIN  
(719) 476-0800  
JDESJARDIN@PROTERRA.CO.COM

**J-R ENGINEERING**  
A Westlan Company  
Central 303-740-8888 • Colorado Springs 719-592-2888  
Fort Collins 970-491-8888 • www.jrengineering.com

No.	REVISION	DATE	BY	DATE	BY	DATE	BY	DATE	BY	DATE	BY	DATE	BY	DATE	BY
N/A	N/A	03/03/22	APL	APL											

CLOVERLEAF FILING NO. 2  
DETAIL SHEETS

811  
Know what's below.  
Call before you dig.

SHEET 22 OF 25  
JOB NO. 25158.01



TEE'S			
NOMINAL RUN DIAMETER [IN]	NOMINAL BRANCH DIAMETER [IN]	RUN [FT]	BRANCH [FT]
4"	4"	10	F.O.
4"	6"	10	8
4"	8"	10	42
6"	4"	10	F.O.
6"	6"	10	F.O.
6"	8"	10	21
8"	4"	10	F.O.
8"	6"	10	F.O.
8"	8"	10	2

REDUCERS			
NOMINAL LARGE DIAMETER [IN]	NOMINAL SMALL DIAMETER [IN]	LENGTH [FT]	
6"	4"	32	
8"	4"	59	
8"	6"	35	

DEAD-ENDS AND VALVES			
NOMINAL PIPE DIAMETER [IN]	LENGTH [FT]		
6"	44		
6"	62		
8"	82		

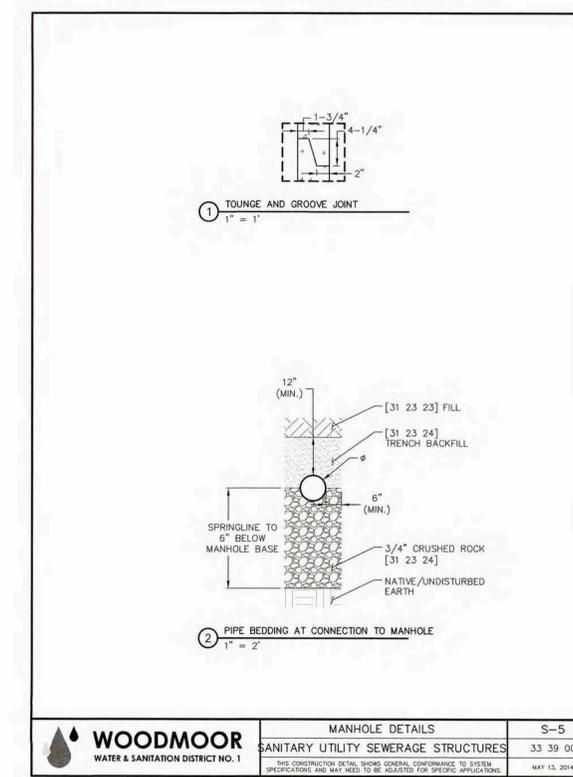
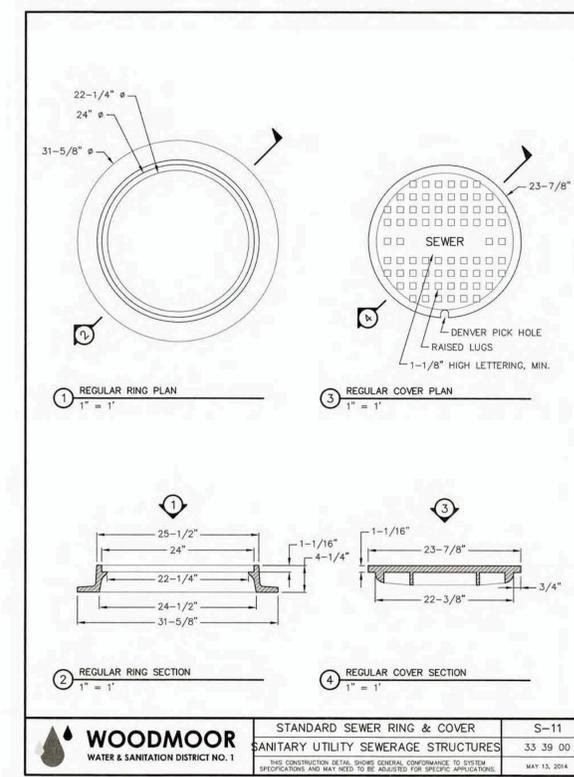
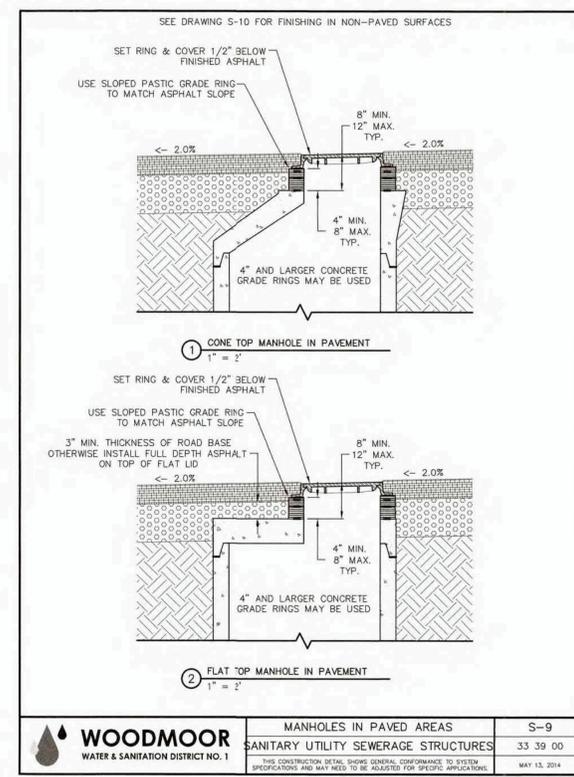
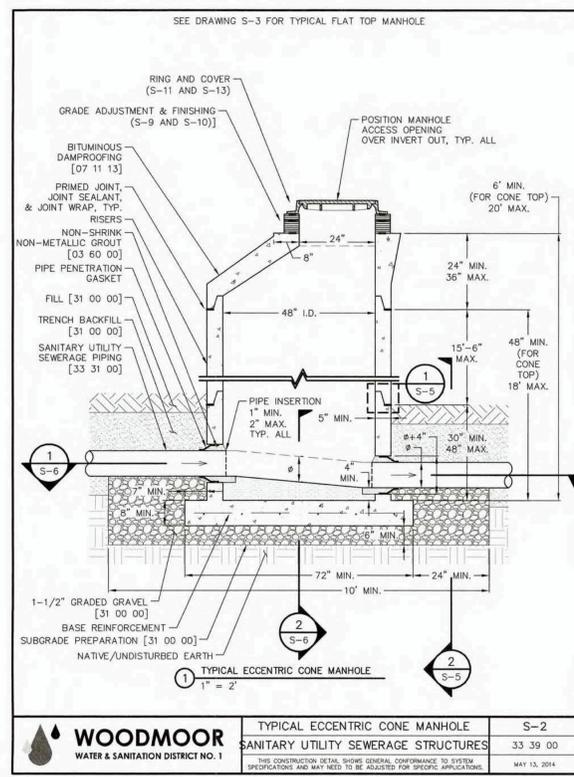
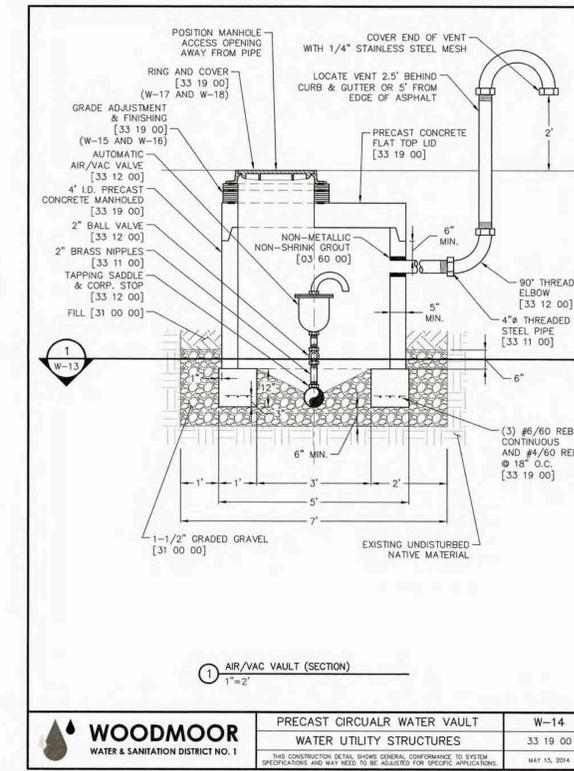
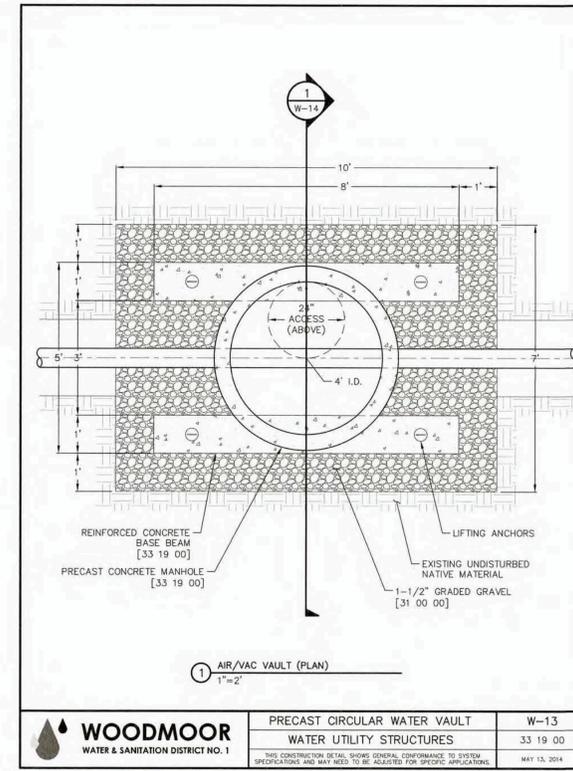
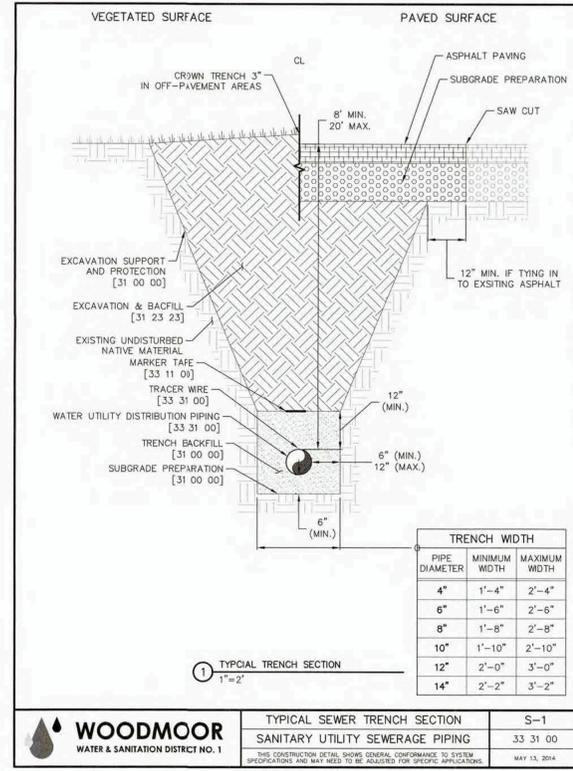
  

HORIZONTAL AND VERTICAL BENDS										
NOMINAL PIPE DIAMETER [IN]	HORIZONTAL BENDS				VERTICAL BENDS (OFFSETS)					
	90° [FT]	45° [FT]	22.5° [FT]	11.25° [FT]	45°		22.5°		12.5°	
4"	5	3	2	2	19	5	9	3	5	2
6"	7	4	2	2	26	7	13	3	7	2
8"	10	5	3	3	34	8	17	4	9	2

NOTES:  
 1. RESTRAINED PIPE LENGTH SHALL BE ACHIEVED WITH MECHANICAL JOINT RESTRAINTS OR BELL RESTRAINTS. DO NOT USE THREADED TIE RODS OR CONCRETE KICKER BLOCKS.  
 2. FOR VALVES, BENDS, AND TEE RUNS THE LENGTHS OF TIED PIPES ARE MEASURED EACH WAY.  
 3. FOR DEAD-ENDS, TEE BRANCHES, AND REDUCERS THE LENGTHS OF TIED PIPE ARE MEASURED ONE WAY IN THE OPPOSITE DIRECTION OF THE APPLIED THRUST.  
 4. F.O. = MECHANICAL JOINT RESTRAINT AT FITTING ONLY.

<b>WOODMOOR</b> WATER & SANITATION DISTRICT NO. 1	LENGTH OF RESTRAINED PIPE (PVC)	W-11
	WATER UTILITY DISTRIBUTION EQUIPMENT	33 12 00



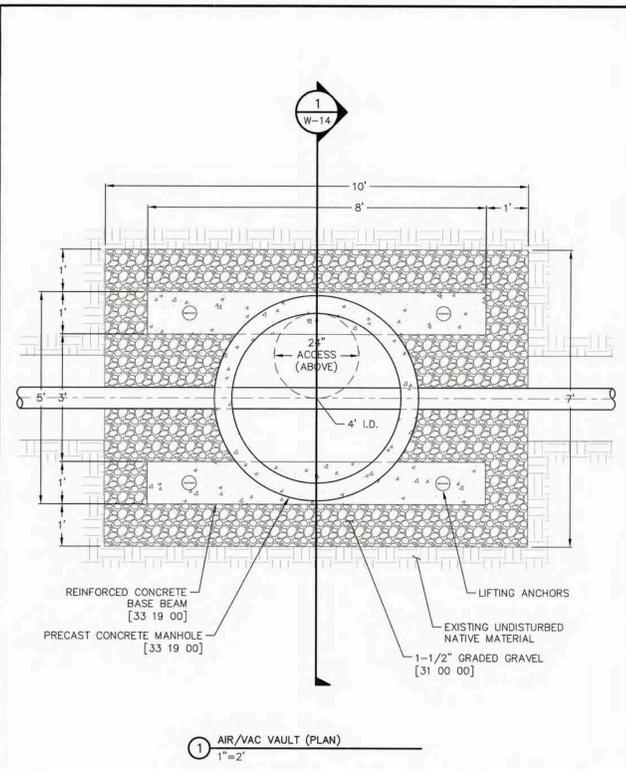
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PREPARED FOR  
**MONUMENT HILL CM LLC**  
 1864 WOODMOOR DRIVE  
 COLORADO SPRINGS, CO 80920  
 ATTN: JOE DESJARDIN  
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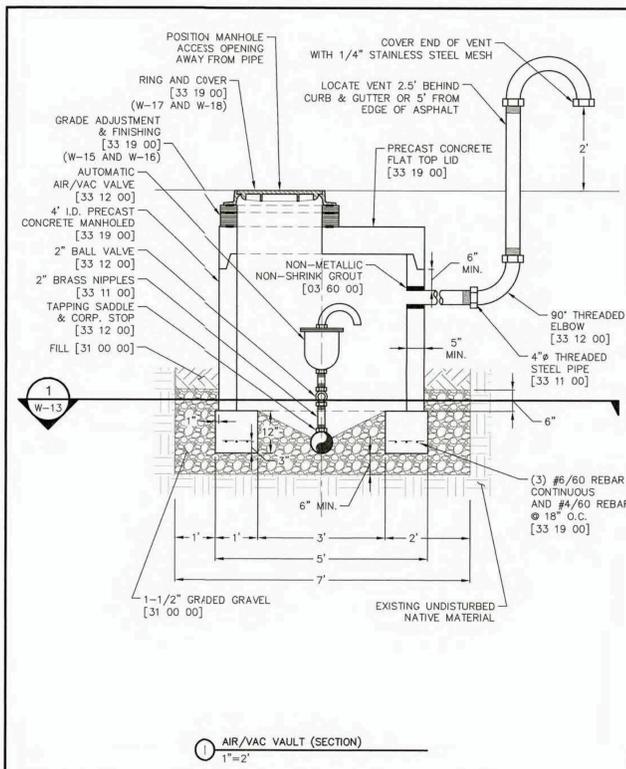


DATE	BY	REVISION	No.	H-SCALE	V-SCALE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
				N/A	N/A	03/03/22	APL	APL	
CLOVERLEAF FILING NO. 2									
DETAIL SHEETS									
SHEET 24 OF 25									
JOB NO. 25158.01									



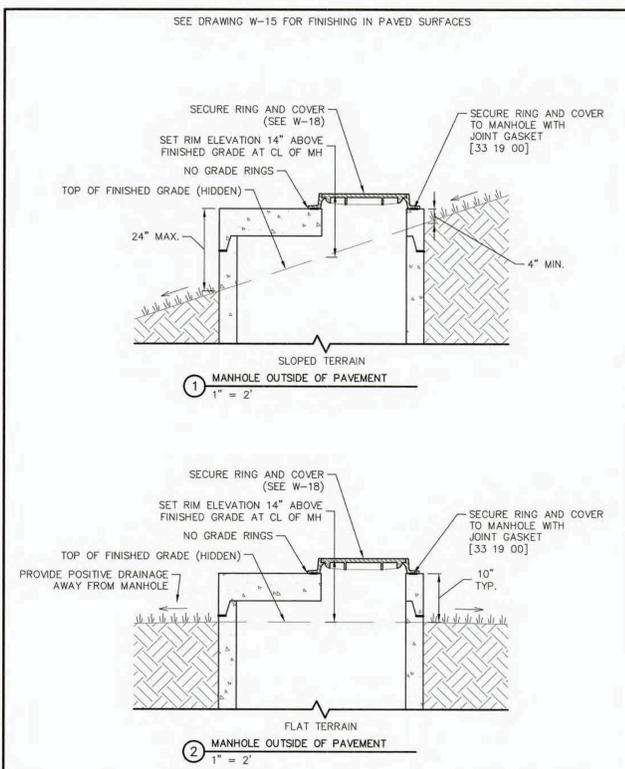
1 AIR/VAC VAULT (PLAN)  
1" = 2"

	<b>WOODMOOR</b>	PRECAST CIRCULAR WATER VAULT	W-13
	WATER & SANITATION DISTRICT NO. 1	WATER UTILITY STRUCTURES	33 19 00



1 AIR/VAC VAULT (SECTION)  
1" = 2"

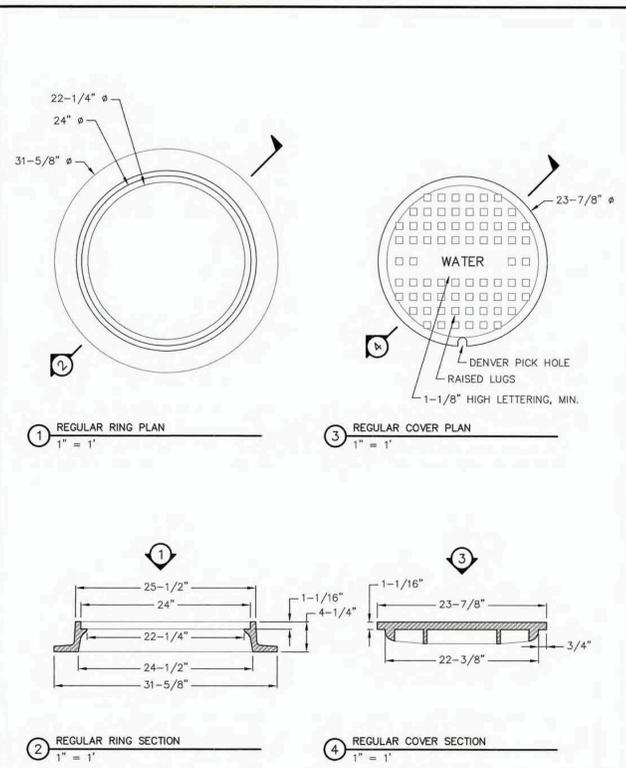
	<b>WOODMOOR</b>	PRECAST CIRCULAR WATER VAULT	W-14
	WATER & SANITATION DISTRICT NO. 1	WATER UTILITY STRUCTURES	33 19 00



1 MANHOLE OUTSIDE OF PAVEMENT  
1" = 2"

2 MANHOLE OUTSIDE OF PAVEMENT  
1" = 2"

	<b>WOODMOOR</b>	MANHOLES IN UNPAVED AREAS	W-16
	WATER & SANITATION DISTRICT NO. 1	WATER UTILITY STRUCTURES	33 19 00



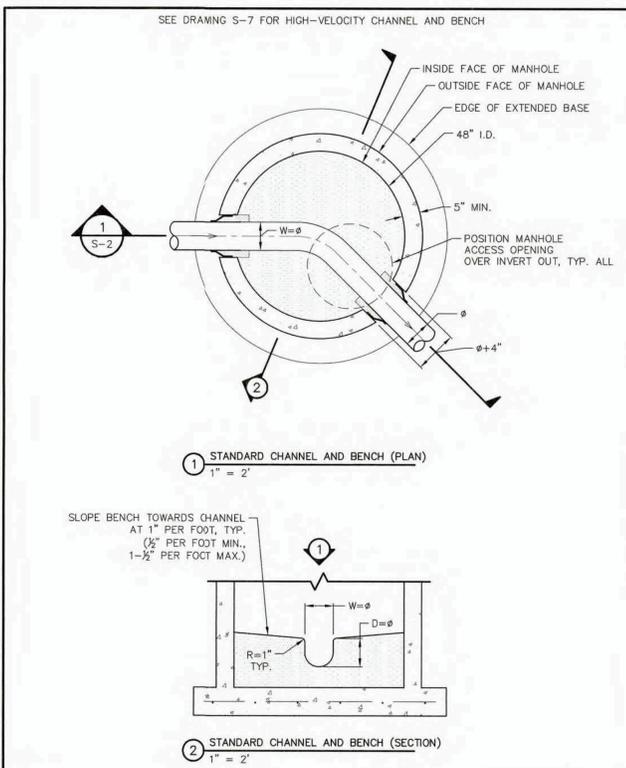
1 REGULAR RING PLAN  
1" = 1"

3 REGULAR COVER PLAN  
1" = 1"

2 REGULAR RING SECTION  
1" = 1"

4 REGULAR COVER SECTION  
1" = 1"

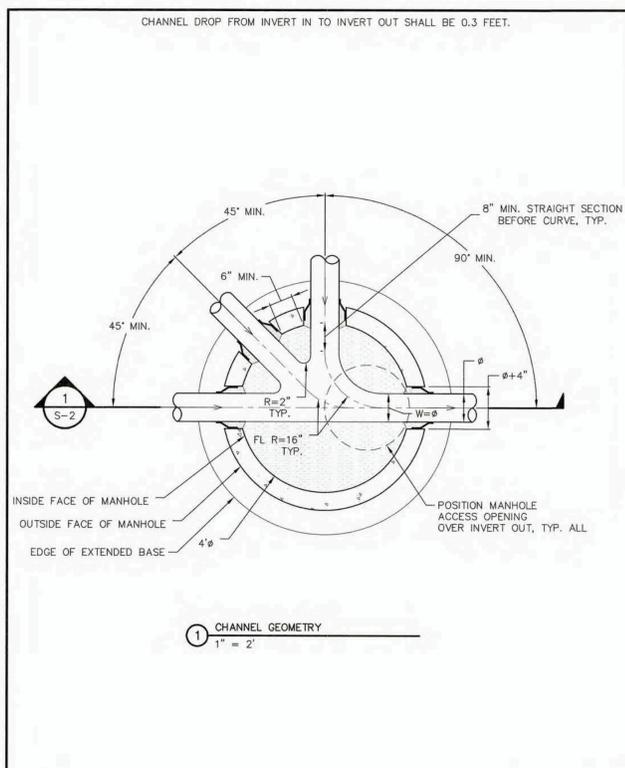
	<b>WOODMOOR</b>	STANDARD WATER RING & COVER	W-17
	WATER & SANITATION DISTRICT NO. 1	WATER UTILITY STRUCTURES	33 19 00



1 STANDARD CHANNEL AND BENCH (PLAN)  
1" = 2"

2 STANDARD CHANNEL AND BENCH (SECTION)  
1" = 2"

	<b>WOODMOOR</b>	SEWER MANHOLE STANDARD BASE	S-6
	WATER & SANITATION DISTRICT NO. 1	SANITARY UTILITY SEWERAGE STRUCTURES	33 39 00



1 CHANNEL GEOMETRY  
1" = 2"

	<b>WOODMOOR</b>	BASE GEOMETRY	S-8
	WATER & SANITATION DISTRICT NO. 1	SANITARY UTILITY SEWERAGE STRUCTURES	33 39 00

PIPE SIZE AND MATERIAL	ALLOWABLE DEFLECTION	PIPE LENGTH AND CORRESPONDING RADIUS									
		20'	18'	16'	14'	12'	10'	8'	6'	4'	
4" - 12" DIP	4"100	286	258	229	207	172	143	115	100	100	
14" - 18" DIP	3"12	356	322	287	251	215	179	143	107	100	
18" - 36" DIP	2"24	477	439	382	334	286	239	191	143	100	
4" - 36" SDR 35 PVC	3"00	382	344	306	267	230	191	153	115	100	

\*DEFLECTION NOT TO BE USED FOR CURVILINEAR SANITARY SEWER PIPE.  
(SEE SANITARY SEWER NOTE ON SHEETS 3-B)

NOTES:  
1. COLORADO SPRINGS UTILITIES USES A 1.25 SAFETY FACTOR FOR DIP SLIP JOINT DEFLECTION FROM THE MANUFACTURER'S ALLOWABLE DEFLECTION.  
2. SDR 35 PVC SHALL NOT BE DEFLECTED WITHOUT THE USE OF FABRICATED 3° BENDS.  
3. MINIMUM RADIUS FOR DIP AND SDR 35 PVC SHALL BE 100'.

	MINIMUM RADIUS FOR DIP AND PVC PIPE	C2-2
--	-------------------------------------	------

DATED: 5/2015

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AUTHORITY, THEY ARE NOT TO BE USED FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR  
**MONUMENT HILL CM LLC**  
1864 WOODMOOR DRIVE  
COLORADO SPRINGS, CO 80920  
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