



Sterling Ranch Metropolitan District 1

WASTEWATER REPORT
For
Sterling Ranch Metropolitan District #1

Updated
February 2021

Prepared By:



CONSULTANTS, INC.

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SECTION 1 INTRODUCTION

This wastewater report is for the Sterling Comprehensive Service Area which includes two additional service areas.

1.1 Overall Development Description:

Sterling Ranch Development consists of approximately 1,444 acres located east of Vollmer Rd and north of Woodmen Rd, Section 33, Township 12 South, Range 65 West of the 6th P.M. Districts 1, 2 and 3 are considered Special Districts and are under the jurisdiction of the Special District Act.

1,119 acres is designated for 5,225 residential units. 56.36 acres is designated for commercial use. 270 acres is designated for open space, greenways, trails, parks, and school sites.

1.2 Report Specific Development Description: This report is for the Preliminary Plan for Sterling Ranch Filing No. 2 Final Plat which includes 49 single family lots or SFE's.

SECTION 2 WASTEWATER AND WASTEWATER TREATMENT

2.1 Projected Wastewater Loads and Adequacy of Capacity; Wastewater unit user loading projections are based on similar District historical use developed in the Falcon area. Average daily wastewater loads are expected to be roughly 172 gallons per day per single family residence.

The expected Average Daily-Maximum Monthly loads are projected to be:

49 SFE times 172 gal/day-SFE equals 8,428 gal/day wastewater load

The loading projected from Sterling Ranch Filing No 2 represents less than 1.0 % of the contractual capacity available to Sterling Ranch Metropolitan District. Sterling Ranch therefore has more than adequate wastewater treatment capacity to provide service to Sterling Ranch Filing #2.

2.2 Wastewater Contract and Treatment

The Sterling Ranch Metropolitan District has a perpetual contract with the Meridian Service Metropolitan District (MSMD) for the provision of wastewater treatment. The contract allows for the purchase of up to 5849 SFEs of wastewater capacity from MSMD. Wastewater projections are based on similar District historical use developed in the Falcon area. Average daily-maximum Monthly wastewater loads of 172 gallons per day per single family residence are iterated in the Wastewater Contract.

Interim Wastewater Treatment Services will be provided by Colorado Springs Utilities for up to one year while Sterling Ranch is completing its connection to

the Meridian System. A copy of the Interim Service Agreement was attached in prior Water and Wastewater Reports and therefor is not included here. An agreement relating to completion of the wastewater outfall and the associated EGF has been extended.

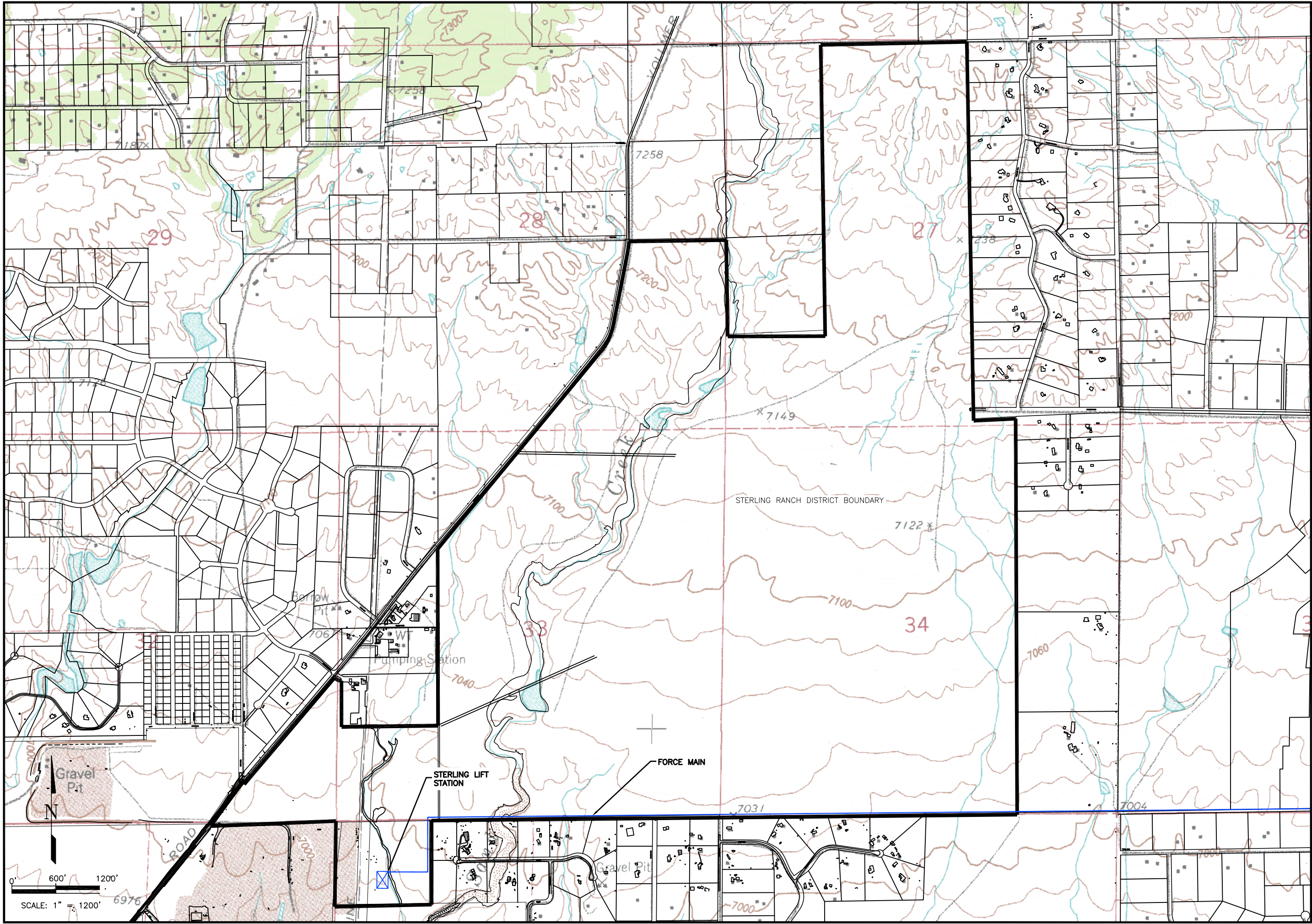
2.3 Wastewater Collection and Pumping

All lands to be developed within the Sterling Ranch and the Retreat areas will gravity feed to the southern portion of the Sterling site. This will be the main collection point for most of the entire future development as well. Sterling is completing construction of the Lift Station and Force Main to serve the area. The force main is constructed across the lower portion of The Ranch. From this point wastewater is intercepted by Meridian Service Metropolitan District.

2.4 Wastewater Treatment

MSMD owns 2.2 million gallons per day of wastewater capacity in the Black Squirrel Wastewater Facility. The plant operator, Cherokee Metropolitan District (CMD) has already approved connections, and systems associated with transport and treatment. MSMD and CMD are in compliance with their current COC issued by the Colorado Department of Public Health and Environment.

Appendix A



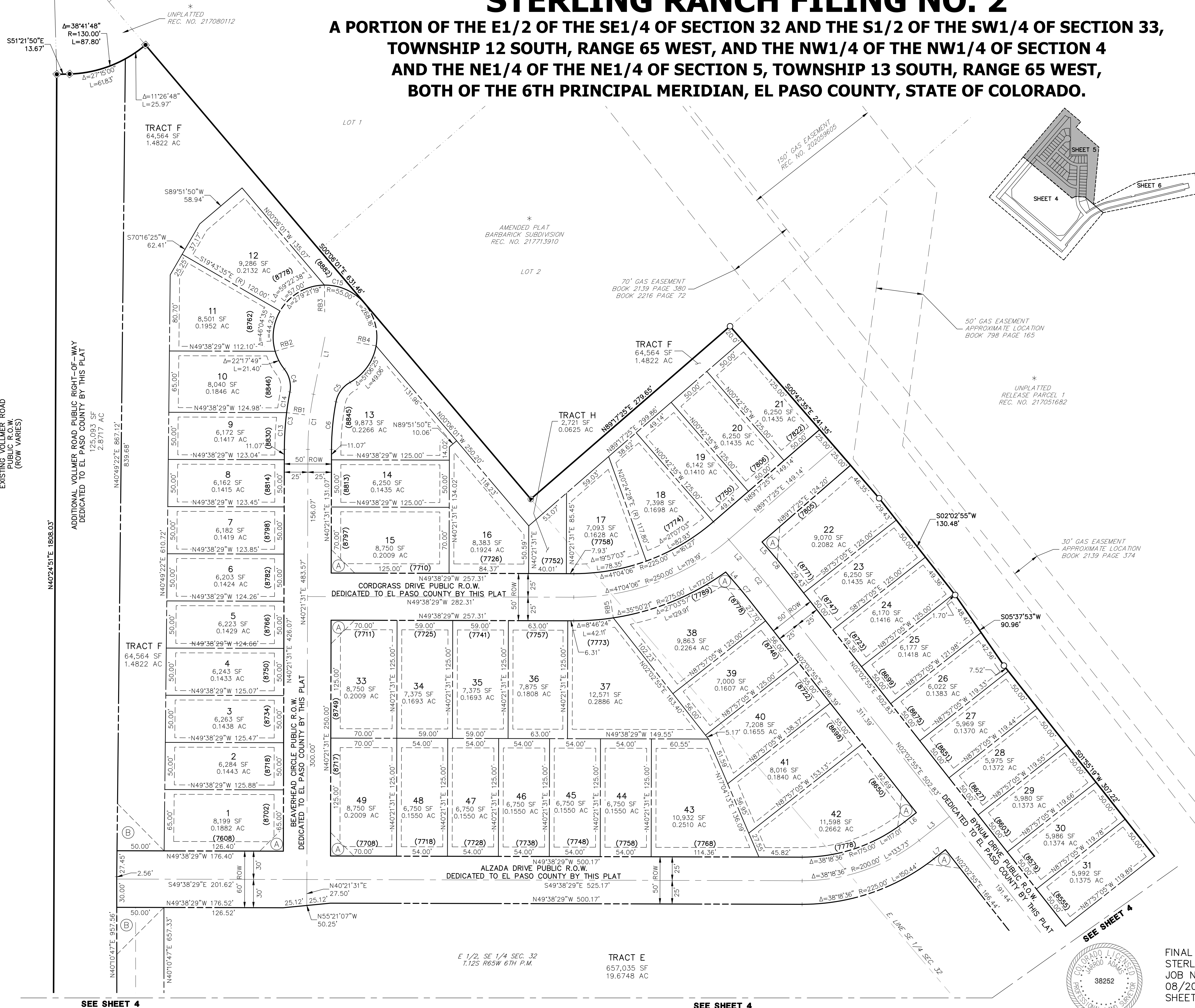
APPENDIX A
STERLING RANCH METROPOLITAN DISTRICT
WASTEWATER LIFT STATION & DISTRICT BOUNDARY

Project No.: 161.04
Scale: AS SHOWN
Date: 11/19/20
Design: JPM
Drawn: TLM
Check: JPM
Revised:

Appendix B

STERLING RANCH FILING NO. 2

A PORTION OF THE E1/2 OF THE SE1/4 OF SECTION 32 AND THE S1/2 OF THE SW1/4 OF SECTION 33,
TOWNSHIP 12 SOUTH, RANGE 65 WEST, AND THE NW1/4 OF THE NW1/4 OF SECTION 4
AND THE NE1/4 OF THE NE1/4 OF SECTION 5, TOWNSHIP 13 SOUTH, RANGE 65 WEST,
BOTH OF THE 6TH PRINCIPAL MERIDIAN, EL PASO COUNTY, STATE OF COLORADO.

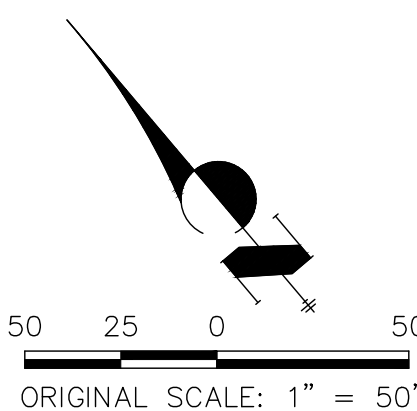
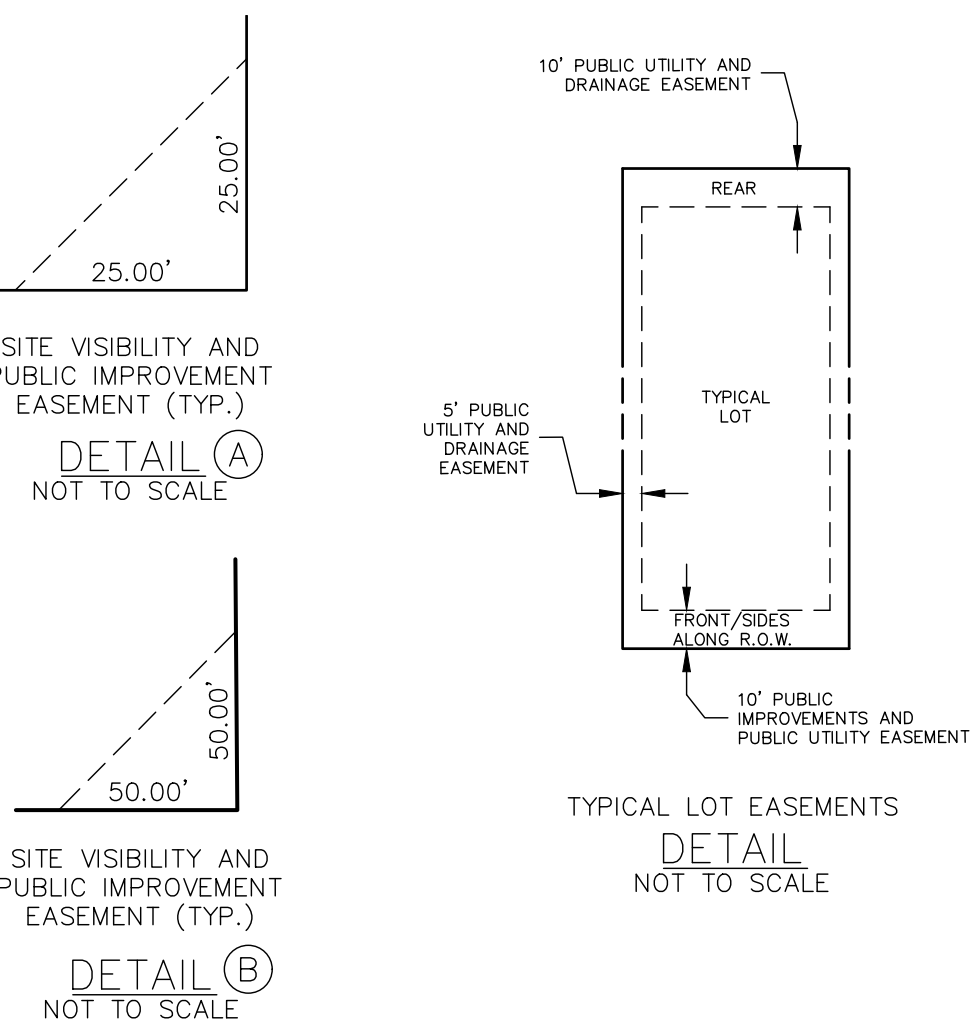


LINE TABLE		
LINE	BEARING	DISTANCE
L1	S51°35'24"W	62.00'
L2	N00°33'26"W	41.40'
L3	S87°57'05"E	40.83'
L4	N00°33'26"W	17.48'
L5	N00°33'26"W	16.47'
L6	S87°57'05"E	15.83'
L7	N87°57'05"W	15.83'

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C1	11°13'53"	300.00'	58.81'
C2	2°36'21"	500.00'	22.74'
C3	10°46'34"	325.00'	61.12'
C4	49°14'04"	30.00'	25.78'
C5	50°19'12"	30.00'	26.35'
C6	10°34'37"	275.00'	50.77'
C7	2°36'21"	475.00'	21.60'
C8	2°36'21"	525.00'	23.88'
C13	6°52'47"	325.00'	39.02'
C14	3°53'46"	325.00'	22.10'
C15	100°29'52"	55.00'	96.47'

RADIAL BEARING TABLE	
LINE	BEARING
RB1	S42°45'42"E
RB2	S65°48'10"E
RB3	S39°39'02"W
RB4	N39°51'05"W
RB5	N31°35'07"E

LEGEND	
	RECOVERED 2" ALUMINUM CAP STAMPED "LS 34977" AT GRADE
	RECOVERED 1" ORANGE PLASTIC CAP STAMPED "LS 38141" AT GRADE
	SET 18" #5 REBAR W/ 1-1/2" ALUMINUM CAP STAMPED "JR ENG LS 38252" AT GRADE
S.F.	SQUARE FEET
####	ADDRESS
(R) RB	RADIAL BEARING
*	NOT A PART OF THIS SUBDIVISION
	PROPOSED SUBDIVISION BOUNDARY
	PROPOSED LOT LINE
	PROPOSED RIGHT-OF-WAY LINE
	PROPOSED CENTERLINE
	EXISTING PROPERTY LINE
	EXISTING RIGHT-OF-WAY LINE
	EXISTING CENTERLINE



FINAL PLAT
STERLING RANCH FILING NO. 2
JOB NO. 25188.01
08/20/2020
SHEET 5 OF 6

FILE NO. SF-20-015

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