

***WASTEWATER DISPOSAL REPORT***

*for*

***FALCON FIELD METROPOLITAN DISTRICT  
FALCON, CO***

**January 2021**

**Prepared By:**



# FALCON FIELD METROPOLITAN DISTRICT

## WASTEWATER DISPOSAL REPORT

January 2021

Prepared for:

Falcon Field Metropolitan District  
c/o White Bear Ankele Tanaka & Waldron  
2154 E Commons Avenue, Suite 2000  
Centennial, Colorado 80228

Prepared by:

JDS-Hydro Consultants, Inc.  
5540 Tech Center Drive, Suite 100  
Colorado Springs, CO 80919

*Table of Contents*

**1.0 INTRODUCTION AND EXECUTIVE SUMMARY..... 2**

**2.0 PROJECTED LAND USES..... 2**

    2.1 *Projected Land Uses* ..... 2

    2.2 *Wastewater Loads for the Subject Property* ..... 2

**3.0 WASTEWATER REPORT..... 3**

    3.1 *Unit Use Wastewater Loads*..... 3

    3.2 *Treatment Facilities* ..... 3

    3.3 *Collection and Pumping Facilities* ..... 3

**4.0 CONCLUSION..... 3**

**APPENDICES**

*Appendix A – Service Area Exhibit*

*Appendix B – Land Use Exhibit*

*Appendix C – Commitment Letter*

**1.0 INTRODUCTION AND EXECUTIVE SUMMARY**

The purpose of this report is to address the specific wastewater loads for the proposed Falcon Field subdivision in Falcon, CO.

**EXECUTIVE SUMMARY: The Woodmen Hills Metropolitan District has adequate wastewater system and treatment capacity to provide wastewater service to this subdivision.**

**2.0 PROJECTED LAND USES**

*2.1 Projected Land Uses*

Lands within the subject area have been planned as commercial development. This report pertains to full buildout of the Falcon Field development. Please refer to the Land Use Exhibit in **Appendix B**.

*2.2 Wastewater Loads for the Subject Property*

Lots within the subject area have been planned as commercial development. *Table 2-1* provides a summary of expected water demands and wastewater loads.

**Table 2-1**

Land Use	Water				Wastewater
	Area (Acres)	SFE Usage (AF)	SFE's per Acre	Total Indoor & Irrigation (AF)	(@ 172 GPD per SFE) (GPD)
Commercial	<i>Note 1</i> 39.20	0.353	<i>Note 2</i> 4.0	55.350	26,970
<b>TOTALS</b>	<b>39.20</b>	<b>0.353</b>	<b>4.0</b>	<b>55.350</b>	<b>26,970</b>

*Note 1: Only counting lot acreage. Not including drainage tracts and rights-of-way.*

*Note 2: Assuming 4 SFE's per acre*

### **3.0 WASTEWATER REPORT**

#### *3.1 Unit Use Wastewater Loads*

As calculated in *Table 2-1*, the expected wastewater load is 26,970 gallons per day (MGD).

#### *3.2 Treatment Facilities*

The WHMD recently constructed a new regional wastewater treatment facility which was placed online in the spring of 2019. This facility serves the Falcon regional area. Falcon Highlands Metropolitan District, Paint Brush Hills Metropolitan District, and portions of Meridian Service Metropolitan District are also served by this facility. The new plant is an advanced wastewater treatment plant with a hydraulic capacity of 1.3 MGD. WHMD is both in compliance with its discharge permit and has substantial adequate capacity for the additional flows.

Current average daily hydraulic loading to the treatment plant is roughly 65%, and max month hydraulic loading is roughly 69%. The addition of the subject property marks **2.07%** of the plant's permitted capacity.

#### *3.3 Collection and Pumping Facilities*

The District operates over 51 miles of wastewater collection system and owns and operates three lift stations. This development may be required to install gravity sewer facilities (if not already in place) in accordance with WHMD standards and approvals. Said gravity sewer facilities will connect to existing collection systems owned and operated by WHMD.

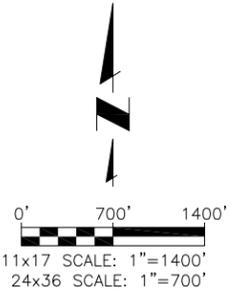
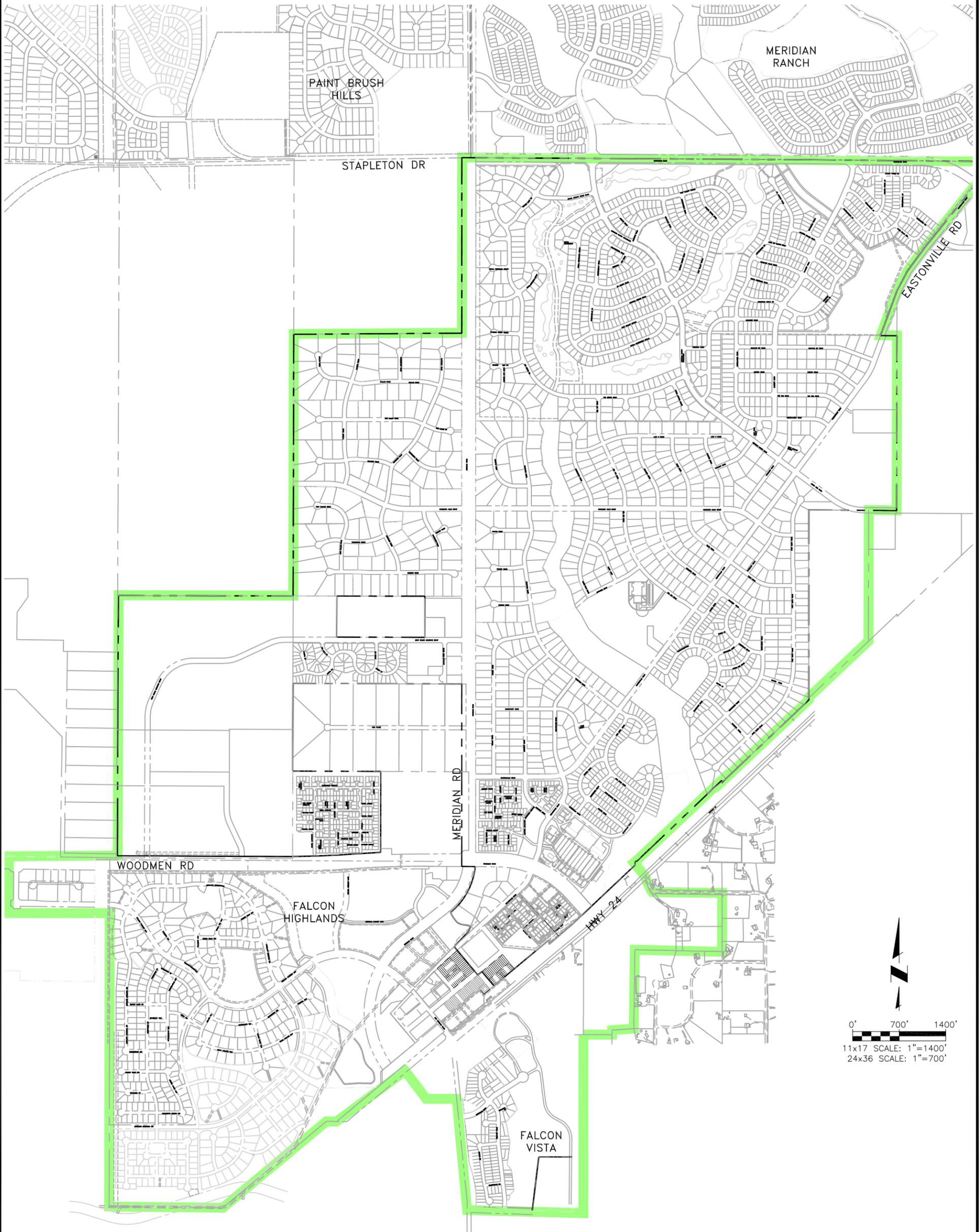
### **4.0 CONCLUSION**

**The Woodmen Hills Metropolitan District has adequate wastewater system and treatment capacity to provide wastewater service to this subdivision.**

# *Appendix A*

# WOODMEN HILLS

## METROPOLITAN DISTRICT



SHEET --- OF ---

Project No.: 112.113  
 Date: 08/10/20  
 Design: JPM  
 Drawn: SKG  
 Check: JPM

REVISIONS				
NO.	DESCRIPTION	BY	APP.	DATE
1				
2				
3				
4				
5				
6				
7				

WOODMEN HILLS METROPOLITAN DISTRICT  
 DISTRICT MAPPING  
 APPENDIX A-2  
 SEWER SERVICE AREA

**JDS-HYDRO CONSULTANTS, INC.**  
 5540 TECH CENTER DR., SUITE 100  
 COLORADO SPRINGS, COLORADO 80919  
 (719) 227-0072

DISCLAIMER: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO JDS-HYDRO CONSULTANTS, INC. JDS-HYDRO ASSUMES NO LIABILITY FOR UNAUTHORIZED CHANGES AND/OR REVISIONS MADE TO PLANS.

# *Appendix B*

# LAND USE EXHIBIT

WOODMEN HILLS  
METRO DISTRICT

WOODMEN ROAD

FALCON FIELD  
SUBDIVISION  
(57.67 ACRES)

HWY 24

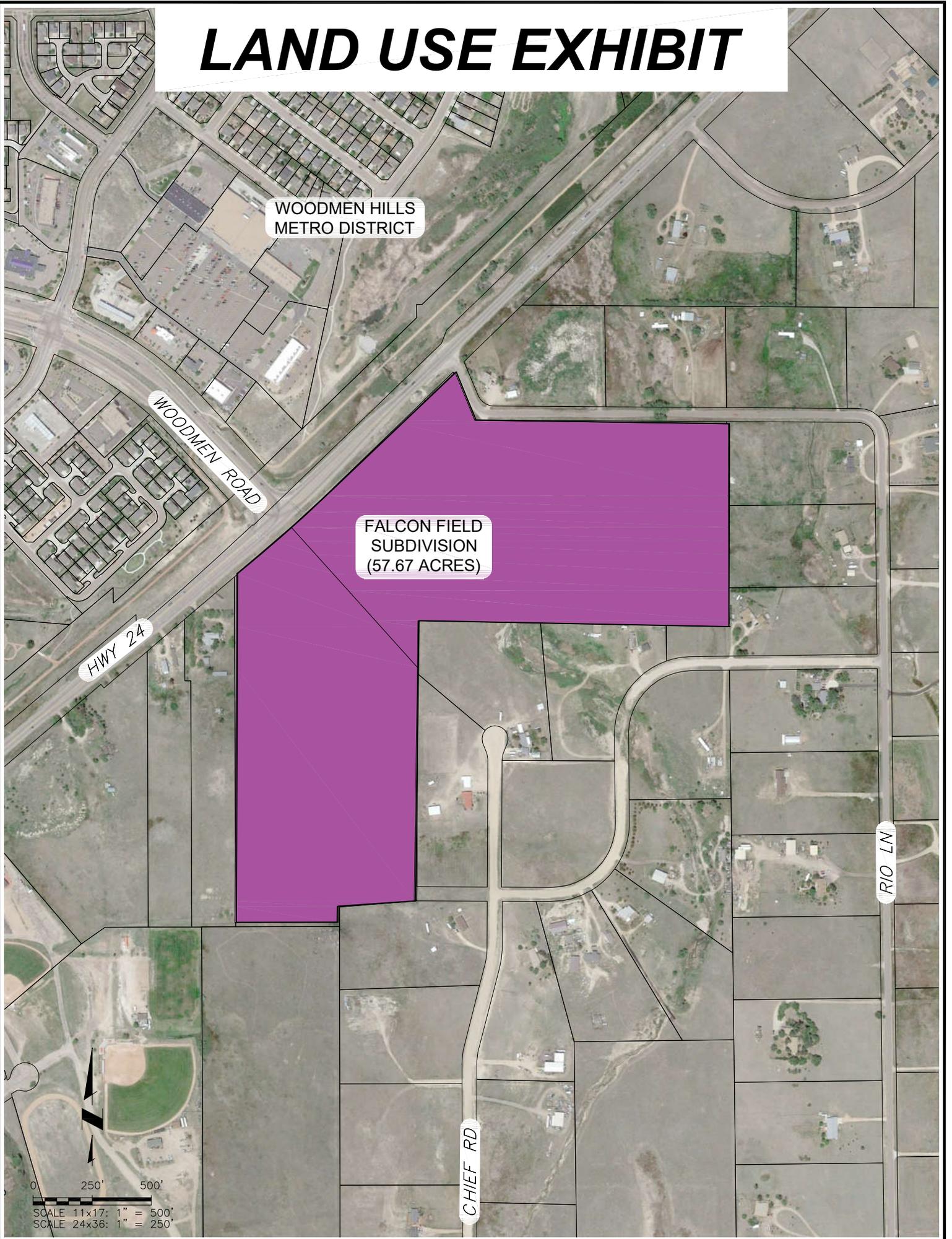
RIO LN

CHIEF RD



0 250' 500'

SCALE 11x17: 1" = 500'  
SCALE 24x36: 1" = 250'



# *Appendix C*



January 8, 2020

Falcon Field Metropolitan District  
c/o White Bear Ankele Tanaka & Waldron  
2154 E Commons Avenue, Suite 2000  
Centennial, Colorado 80228

**Re: Water and Wastewater Commitment  
Proposed *Falcon Field Subdivision***

To Whom it May Concern:

The intent of the applicant is to subdivide existing land (already included into the Woodmen Hills Metropolitan District's service area) into 20 commercial lots.

The District is already committed to serving both water and wastewater to the subdivision, and an *Inclusion and Service Agreement* was entered into in March of 2019. According to preliminary calculations, the water demand is 55.35 acre-feet/year. A calculated wastewater load is 26,970 gallons/day.

The Woodmen Hills Metropolitan District remains committed to providing water and wastewater service to the Falcon Field subdivision.

If you have any questions, please do not hesitate to call.

Sincerely,  
**Woodmen Hills Metropolitan District**

A handwritten signature in blue ink that reads "Jerry Jacobson". The signature is fluid and cursive, with a long horizontal stroke at the end.

Jerry Jacobson, General Manager

Cc: John P. McGinn, District Engineer