



INNOVATIVE DESIGN. **CLASSIC RESULTS.**

**WASTEWATER TREATMENT REPORT
FOR
HANNAH RIDGE AT FEATHERGRASS
FILING NO. 5**

August 17, 2018

Prepared for:
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Job no. 1116.05



WASTEWATER TREATMENT REPORT FOR HANNAH RIDGE AT FEATHERGRASS FILING NO. 5

GENERAL LOCATION & DESCRIPTION

Hannah Ridge at Feathergrass Filing No. 5 is a 12.92 acre subdivision within Section 32, Township 13 South, Range 65 West of the 6th Principal Meridian in El Paso County, Colorado. The site is generally located west of the Akers Drive and Winslow Park Drive intersections.

The site is within the Cherokee Metropolitan District Service area. Water and wastewater services will be provided by Cherokee Metropolitan District, see attached letter.

The proposed Hannah Ridge at Feathergrass Filing No. 5 development includes 53 single-family residences.

OPINION OF PROBABLY POPULATION AND QUANTITY OF EFFLUENT

The proposed development will include 53 single-family residences. The opinion of probably population and quantity of effluent is as follows:

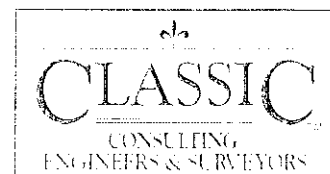
Population:

Single-family Residences: $53 \text{ units} \times 2.5 \text{ persons/unit} = 133 \text{ persons}$

Quantity of Effluent:

Single-family Residents: $133 \text{ persons} \times 65 \text{ GPD/person} = 8,645 \text{ GPD}$

The projected quantity of effluent is based upon industry standards as well as methodology used by other utility providers in the area. The actual population and flow could vary from these calculations.



LOCATION OF CONNECTION TO EXISTING WASTEWATER SYSTEM

The Hannah Ridge at Feathergrass Filing No. 5 development will connect to the existing 8" PVC wastewater system stubbed into the site from adjacent, previously constructed subdivision in the Hannah community. The existing system is owned and maintained by the Cherokee Metropolitan District and was installed in anticipation of future development.

LETTER OF COMMITMENT

Cherokee Metropolitan District has provided a general Intent to Serve Letter to provide both Water and Wastewater Service to this property (attached).

ESTIMATE OF CONSTRUCTION COSTS

Item	Quantity	Unit Cost	Total Cost
8" PVC Sanitary Sewer	2,013 LF	\$30.00/LF	\$60,390
Sanitary Sewer Manhole	10 EA	\$4000/EA	\$40,000
		TOTAL	\$100,390

CREATION OR ANNEXATION INTO SPECIAL SEWER DISTRICT

This item does not require any action as this property is already within the service area for Cherokee Metropolitan District.

MAP OF EXISTING AND PROPOSED FACILITIES

A map of the proposed utility plan is attached. The plan is subject to change based on review by Cherokee Metropolitan District. The level of use of the existing sanitary sewer stub is currently zero (0).



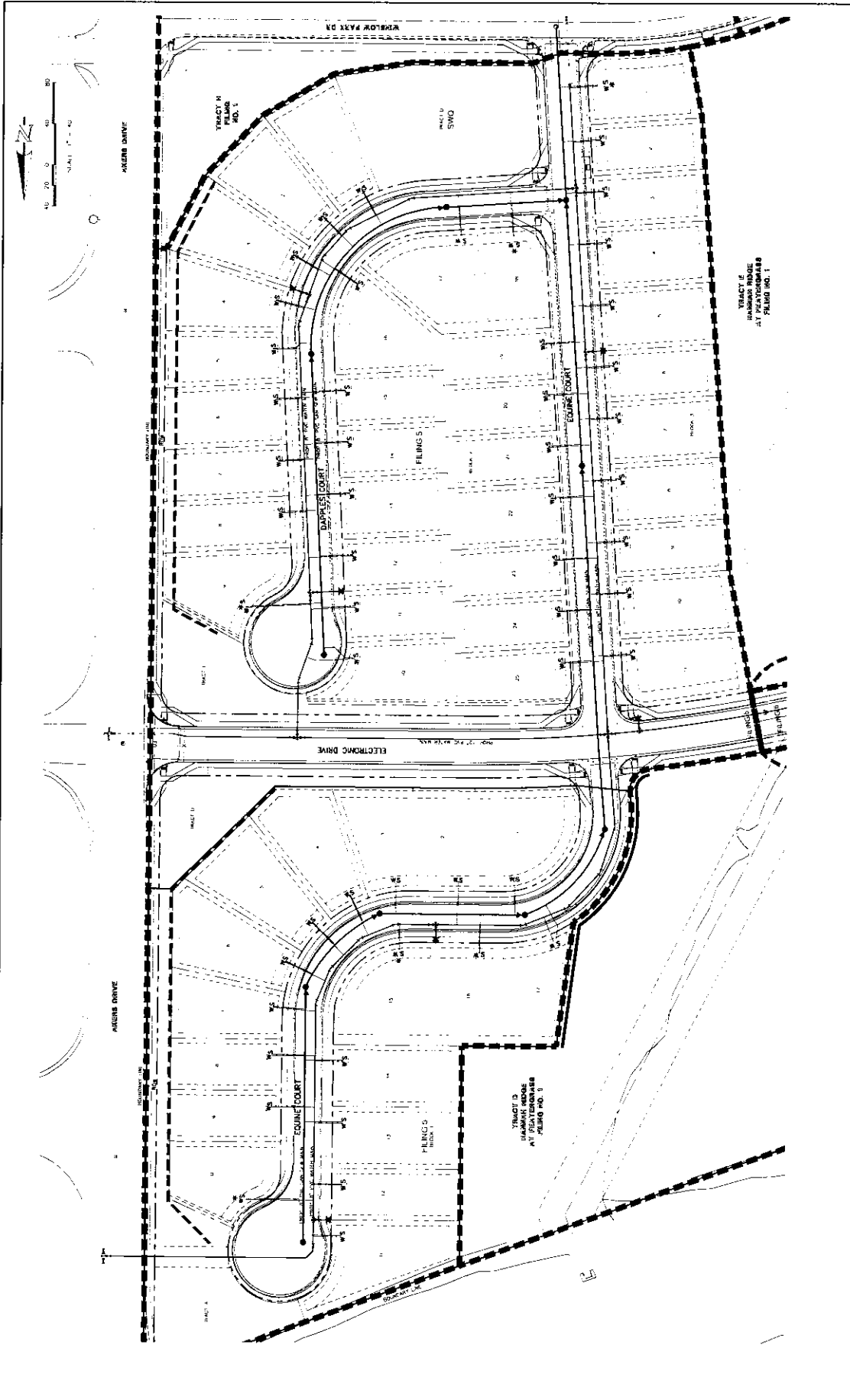
PREPARED BY:

Classic Consulting Engineers & Surveyors, LLC

Kyle R. Campbell, P.E.
Division Manager

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LEGEND

- PROPOSED UTILITY
- PROPOSED WATER MAIN
- PROPOSED SANITARY MAIN
- PROPOSED GAS MAIN
- PROPOSED ELECTRIC MAIN

811
 UTILITY NOTIFICATION CENTER OF CALIFORNIA
 811 CALLS ARE REQUIRED TO LOCATE AND MARK UTILITIES BEFORE ANY EXCAVATION OR CONSTRUCTION WORK. CALL 811 AT LEAST 48 HOURS BEFORE ANY EXCAVATION OR CONSTRUCTION WORK. FOR MORE INFORMATION, VISIT WWW.CA811.COM.

CLASSIC CONSULTING ENGINEERS & SURVEYORS
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HAMMAR RIDGE AT FEATHERGRASS
 PLING NO. 5
 EXISTING AND PROPOSED PARKING, WAY
 INCLUDING UTILITY MARKERS

DESIGNED BY: []
 DRAWN BY: []
 CHECKED BY: []
 DATE: []