DRAINAGE MEMO
for
GRAND MOUNTAIN PK-8 SCHOOL

11060 Fontaine Boulevard
Widefield, CO

May 2026

Prepared for:

Widefield School District 3
1820 Main St.
Colorado Springs, CO 80911
Contact: Dave Gish
(719) 391-3530

Prepared by:

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Project No. 21126-06CSCV

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LOCATION/VICINITY MAP

1.0 CERTIFICATION STATEMENTS

The attached drainage plan and report were prepared under my direction and supervision and are correct to the best of my knowledge and belief. Said drainage report has been prepared according to the criteria established by El Paso County for drainage reports, and said report is in conformity with the master plan of the drainage basin. I accept responsibility for any liability caused by any negligent acts, errors or omission on my part in preparing this report.

Tim D. McConnell, P.E. Date
Colorado P.E. License No. 33797
For and on Behalf of Drexel, Barrell & Co.

DEVELOPER'S STATEMENT

I, the developer have read and will comply with all the requirements specified in this drainage report and plan.

Business Name: Widefield School District 3

By: _____
Dave Gish Date
Title: Chief Operations Officer
Address: 1820 Main St.
Colorado Springs, CO 80911

EL PASO COUNTY

Filed in accordance with the requirements of the El Paso County Land Development Code, Drainage Criteria Manual Volumes 1 and 2, and the Engineering Criteria Manual, as amended.

Joshua Palmer, P.E. Date
County Engineer / ECM Administrator

Conditions

2.0 PURPOSE

The purpose of this Drainage Memo for Widefield PK-8 School is to document updates to the previously approved Final Drainage Report (FDR) prepared by Drexel, Barrell & Co. (dated March 2019, PPR1826) associated with modifications to the site plan specific to a proposed modular building along with a new existing modular building which currently exists. These improvements result in minor changes to the overall impervious area and corresponding runoff characteristics and were accounted for in the previous FDR.

3.0 GENERAL SITE DESCRIPTION

Location

The site is located at the northeast corner of Fontaine Blvd. and Lamprey Drive in the SW 1/4 of Section 13, Township 15 S, Range 65 W of the 6th P.M., El Paso County, Colorado. The overall site is bound on the west and north by Lamprey Drive, the south by Fontaine Boulevard, and on the east by a residential development. Also to the east of the site is a utility easement/open space. See Vicinity Map in the Appendix.

The overall site consists of approximately 25.27 acres on a School District 3 site. Due to an update to the overall site plan layout, a Drainage Memo is being utilized to outline the relatively minor drainage effects that will occur as a result.

Proposed Changes

A 4,783 square-foot modular building is being proposed as an expansion to a new 8,610 modular building which currently exists, located east of the main facility.

4.0 PROPOSED CONDITION

The proposed and existing/new modular buildings are located in the eastern and northeastern portion of the site and will impact prior FDR Basins A1, AO, A11, A12, and A19.

Basin A1 includes a small portion of the existing/new modular building (southwest corner) along with minor concrete and surrounding gravel. The basin will not change locations and will not change drainage patterns but will have slightly increased imperviousness with anticipated runoff rates previously accounted for in the previous FDR. Flows leaving this basin at Design Point 1 (DP-1) leave an existing inlet via 15" storm pipe. DP-1 captures all flows from this basin as well as from Basin AO. Basin A1 flows are then captured by the previous FDR's onsite Full Spectrum Extended Drainage Basin (EDB), located in the northwest portion of the site, with outfall via a 24" pipe.

Basin AO includes most of the existing/new modular building along with surrounding gravel. Basin AO will not change locations and will not change drainage patterns but will have slightly increased imperviousness with anticipated runoff rates previously accounted for in

the previous FDR. Flows leaving this basin at Design Point 0 (DP-0) leave the existing inlet via 15" storm pipe. DP-0 captures all flows from this basin. Basin AO flows are then captured by the previous FDR's onsite Full Spectrum EDB, with outfall via a 24" pipe.

Basin A11 includes roughly 1/3 of the north side of the existing/new modular building, a small portion of the northeast side of the proposed modular building along with minor concrete and surrounding gravel. Basin A11 will not change locations and will not change drainage patterns but will have slightly increased imperviousness with anticipated runoff rates previously accounted for in the previous FDR. Flows leaving this basin at Design Point 12 (DP-12) leave the existing inlet (to be relocated) via 18" storm pipe. DP-12 reflects all flows from this basin. The relocated inlet was designed to accommodate the slight increase in flow, and the overall storm system is understood to function properly. Basin A11 flows are then captured by the previous FDR's onsite Full Spectrum Extended Drainage Basin (EDB), with outfall via a 24" pipe.

Basin A12 includes a small portion of southwest side of the proposed modular building along with surrounding gravel. Basin A12 will not change locations and will not change drainage patterns but will have slightly increased imperviousness with anticipated runoff rates previously accounted for in the previous FDR. Flows leaving this basin at Design Point 13 (DP-13) leave the existing inlet via 18" storm pipe. DP-13 reflects all flows from this basin as well as Basin A11. Basin A12 flows are then captured by the previous FDR's onsite Full Spectrum Extended Drainage Basin (EDB), with outfall via a 24" pipe.

Basin A19 includes almost half of the proposed modular building (north side) along with minor concrete and surrounding gravel. Basin A19 will not change locations and will not change drainage patterns but will have slightly increased imperviousness with anticipated runoff rates previously accounted for in the previous FDR. Flows leaving this basin at Design Point 22 (DP-22) leave an existing flared end section via 18" storm pipe. DP-22 reflects all flows from this basin. Basin A19 flows are then captured by the previous FDR's onsite Full Spectrum Extended Drainage Basin (EDB), with outfall via a 24" pipe.

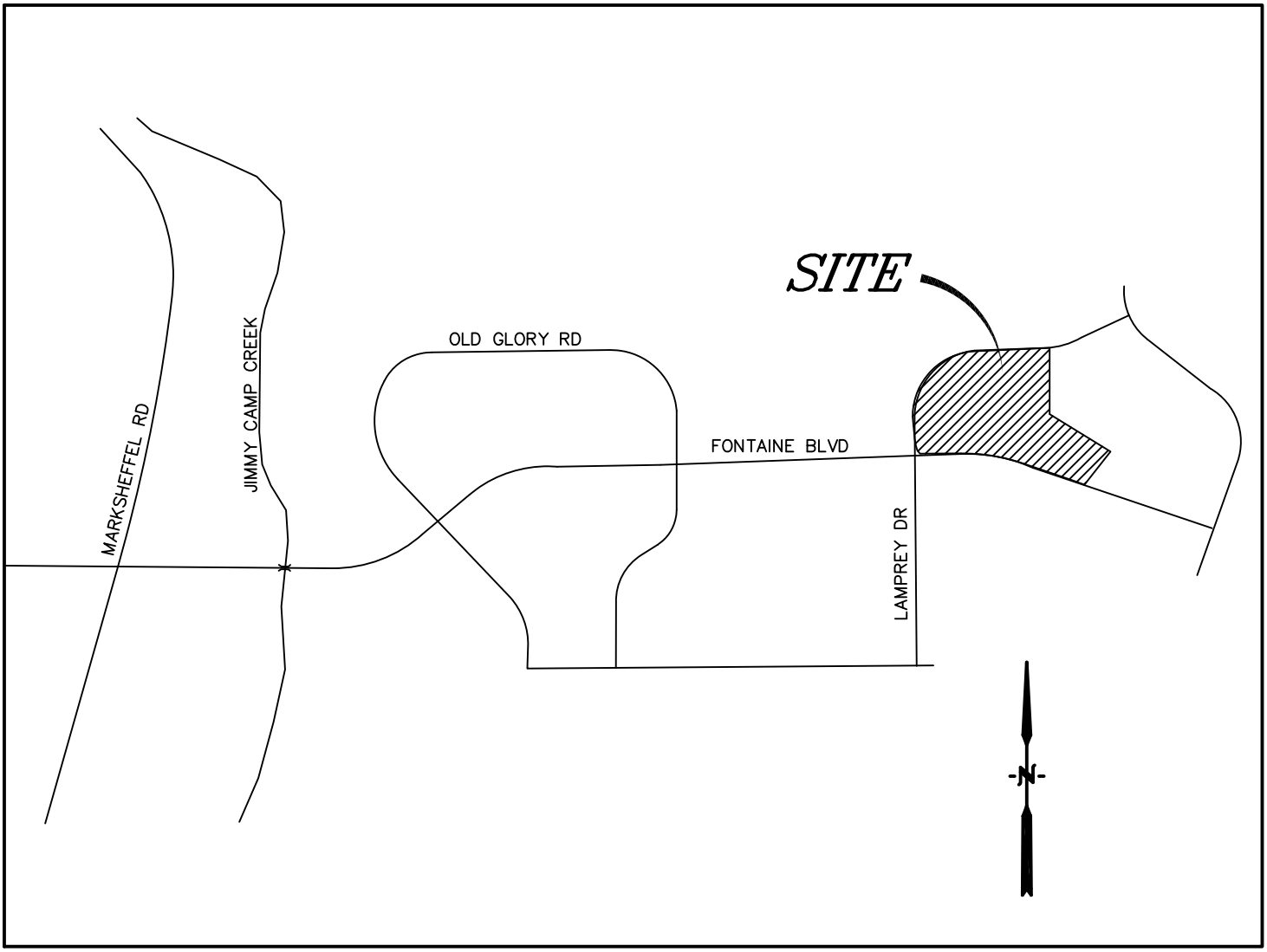
5.0 PROPOSED DETENTION/WATER QUALITY FACILITIES

As per the prior FDR, the onsite pond is a 2.6-acre foot EDB. Although it does not capture flows from the entire site, it was oversized and exceeds the required pond volume by using the impervious coverage and the area of the entire site, including a future building expansion that is now encompassed by the existing and proposed modular classrooms. The required pond volume when using the entire site area for 100-yr detention is 1.594 acre-feet. The actual pond volume is 2.592 acre feet. It will capture then release the flows at a reduced flow rate into a proposed 24" pipe, which connects to the existing storm sewer system in Lamprey Drive and continues to the west. No changes are required to the EDB for the modular classroom additions.

5.0 DRAINAGE AND BRIDGE FEES

The project lies within the Jimmy Camp Creek Drainage Basin. Drainage and bridge fees were previously paid and there is no increase in imperviousness from the prior approved FDR.

APPENDIX



Location Map
Not to scale

GRAND MOUNTAIN PK-8 SCHOOL
WIDEFIELD, CO
LOCATION MAP

Drexel, Barrell & Co.
Engineers • Surveyors

DATE: 05/06/26
JOB NO: 21126-06CSCV
DWG. NO. VMAP
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