



El Paso County MS4 Post Construction Detention / Water Quality Facility Documentation Form

This document **must be completed and submitted** with required attachments to the County for projects requiring a detention and/or a water quality facility. A separate completed form must be submitted for each facility.

Project name: Widefield PK-8 School

Owner name: Widefield School District No. 3

Location Address:

11060 Fontaine Boulevard

Latitude and Longitude:

Lat = 38.741, Long = -104.620

Assessor's Parcel #: 5513301002 Section: 13 Township: 15S Range: 65W

Expected Completion date: 8-26-19

Project acreage: 25.26 Design Ponding Acres: 0.4 Design Storm: 100 year

Design Engineer Email Address: tmccconnell@drexelbarrell.com

To ensure compliance with C.R.S. 37-92-602(8), the completed Stormwater Detention and Infiltration Design Data Sheet **must be attached**. The form can be found here: <https://maperture.digitaldataservices.com/gvh/?viewer=cswdif#> (click on Download SDI Design Data Sheet)

List all permanent water quality control measure(s) (EDBs, rain gardens, etc):

One EDB

For all projects for which the constrained redevelopment sites standard is applied, provide an explanation of why it is not practicable to meet the full design standards. N/A

Attach Operations and Maintenance (O&M) Plan describing the operation and maintenance procedures that ensure the long-term observation, maintenance, and operation of control measure(s), including routine inspection frequencies and maintenance activities. If multiple, different water quality control measures are used at the same location, a separate O & M Plan must be provided for each facility.

Attach Private Detention Basin / Stormwater Quality Best Management Practice Maintenance Agreement and Easement addressing maintenance of BMPs that shall be binding on all subsequent owners of the permanent BMPs.

Attachments:

Stormwater Detention and Infiltration Design Data Sheet
O & M Plan
Maintenance and Access Agreement

Review Engineer

JDR

EPC Project File No.

PPR-18-026

Stormwater Detention and Infiltration Design Data Sheet

Worksheet Protected

User Input: Watershed Characteristics

0.015

1120 ft

15.19 acres

34.0% percent

0.0% percent

0.0% percent

100.0% percent

Location for 1-hr Rainfall Depths (use dropdown):

User Input

WQCV Treatment Method = Extended Detention ▼

[illegible]

After completing and printing this worksheet to a pdf, go to:

<https://maperture.digitaldataservices.com/gvh/?viewer=cswdif>

create a new stormwater facility, and

attach the pdf of this worksheet to that record.

Routed Hydrograph Results

Design Storm Return Period =	WQCV	2 Year	5 Year	10 Year	50 Year	100 Year	
One-Hour Rainfall Depth =	0.53	1.19	1.50	1.75	2.25	2.52	in
Calculated Runoff Volume =	0.207	0.437	0.704	0.979	1.857	2.320	acre-ft
OPTIONAL Override Runoff Volume =							acre-ft
Inflow Hydrograph Volume =	0.206	0.437	0.703	0.978	1.856	2.319	acre-ft
Time to Drain 97% of Inflow Volume =	40.1	49.8	47.6	45.1	38.3	35.4	hours
Time to Drain 99% of Inflow Volume =	43.6	54.9	54.1	52.7	49.0	47.4	hours
Maximum Ponding Depth =	1.64	2.70	3.41	3.73	4.34	4.64	ft
Maximum Poned Area =	0.16	0.20	0.23	0.25	0.28	0.29	acres
Maximum Volume Stored =	0.191	0.383	0.538	0.616	0.777	0.862	acre-ft

Stormwater Detention and Infiltration Design Data Sheet

