

1/14/2022

Kari Parsons
El Paso County Planning & Community Development
2880 International Circle
Colorado Springs, CO 80910

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

Dear Ms. Parsons,

This letter will be submitted in lieu of the standard El Paso County MS4 Post Construction Detention / Water Quality Facility Documentation Form.

This letter is to show that the Falcon Meadows at Bent Grass Channel Improvements project is exempt from the requirements of the ECM to provide a Water Quality Facility. The project is located in the Falcon area of El Paso County, Colorado. The site is located in the Northwest $\frac{1}{4}$ and Southwest $\frac{1}{4}$ of Section 1, Township 13S, Range 65W, of the Sixth Principal Meridian, County of El Paso, State of Colorado. It is located immediately north of Woodmen Road which is approximately 3,615 feet west from the intersection of Woodmen Road and Meridian Road. The channel location will shift slightly to the east from existing historic alignment and "straighten" out the overall flow path. It will be located within a drainage easement. The channel will have a design maintaining an overall channel slope of 0.30% is used to keep the channel flow in a sub-critical flow with a bottom width of 38', and 4:1 side slopes. Due to the steepness of the site in relation to the 0.30% slope, it is being proposed to use sloping boulder drop structures in lieu of the rock vane grates which had been proposed in the Drainage Basin Planning Study.

The question has been raised if the Falcon Meadows at Bent Grass Channel Improvements project needs a Post Construction Detention / Water Quality Facility Documentation Form.

Per the ECM Section 3.2.3 Requirements of Adequate Drainage Systems Required:

Adequate drainage designs shall provide for removal of runoff from the roadway or the upstream end of any development, and for carrying runoff water from the upstream side to the downstream side. These functions shall be accomplished without causing objectionable backwater, causing excessive or increased velocities, creating damages to downstream ownerships, unduly affecting the safe operation of traffic on the roadway, damaging the roadway or damaging water quality.

Adjacent developments provide for water quality within existing and proposed detention facilities prior to discharge into the channel. The channel design provides water quality and allows infiltration during storm events that drain directly to the channel.

Per the ECM Section 3.2.9 Site Grading:

A. Basic Objectives

The goal of site grading is to develop features that direct and store surface water in a manner consistent with the following objectives:

- *Assist in directing surface away from existing and proposed structures and towards well-developed conveyance/storage systems to minimize property damage;*
- *Minimize the amount of surface erosion and sediment transport by limiting steep grades in excess of 4:1 through terracing and using applicable permanent BMPs;*
- *Site grading shall be designed in a manner that minimizes the use of retaining walls and limits severe transitions at property boundaries;*



Falcon Meadows at Bent Grass Drainage Channel Improvements
Challenger Homes, Inc.

- *Storing surface runoff on site to minimize downstream impacts and control discharge flows; and*
- *Enhance surface water quality through the use of BMPs designed to remove constituents of concern collected during smaller storm events.*

Site grading should imitate natural landforms and work effectively with the developed drainage plan to minimize erosion. The overall area being graded should be kept to a minimum per provisions presented in an approved ESQCP. Once construction is complete, all disturbed areas must be revegetated or other permanent BMPs must be installed.

A reinforced check dam will be utilized during construction for construction sediment capture.

All runoff (treated and those originating from the channel) are ultimately conveyed downstream to Regional Pond WU within the the Falcon Highlands development.

We hope that this resolves any questions that have come up from County Staff regarding the project. If you have any questions regarding the information provided, please feel free to reach out to us at (719) 900-7220.

Sincerely,
GALLOWAY

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