



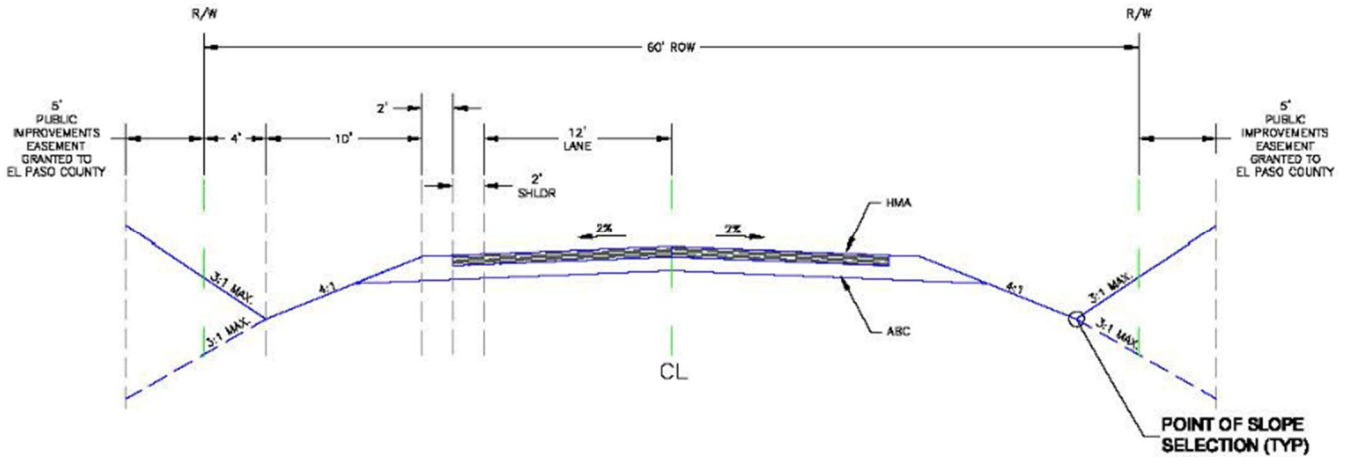
**DEVIATION REQUEST** (Attach diagrams, figures, and other documentation to clarify request)

A deviation from the standards of or in Section **2.3 Roadway Design** of the Engineering Criteria Manual (ECM) is requested.

Identify the specific ECM standard which a deviation is requested:

Section 2.3 Roadway Design, Detail SD\_2-11

**SD\_2-11 Typical Rural Local Cross Section**



State the reason for the requested deviation:

A request to modify the typical rural local cross section allows for an 8-foot regional trail to be constructed along the south side of Apex Ranch Road. The EPC Parks department has requested a proposed 25' easement outside of the right of way will reserve adequate space for the trail to be built at a future date along the Apex Ranch Road alignment. This will connect Homestead Park (El Paso County Park) to Tract E and D within the Apex Ranch Subdivision, which are dedicated for public trail use.

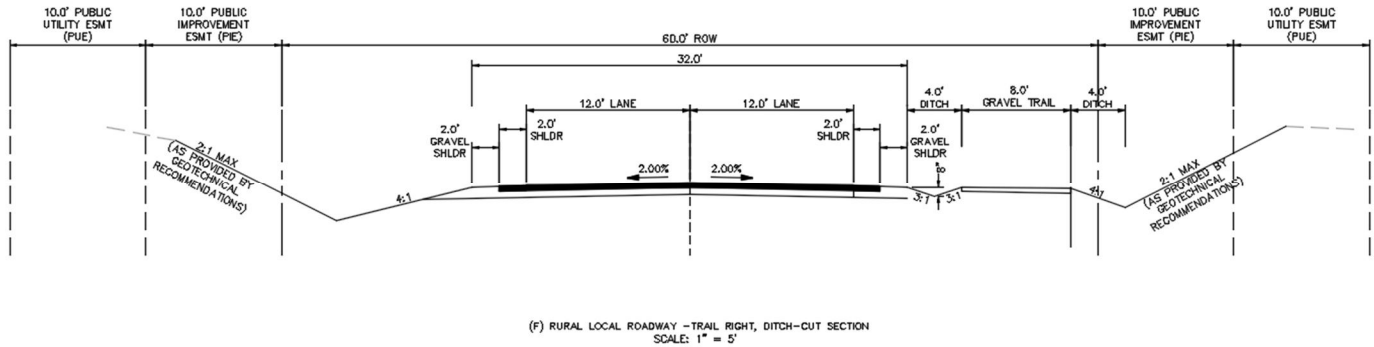
There is one portion of the proposed Apex Ranch Road alignment that has significant grade challenges to traverse to the top of an existing plateau. The existing topography has over 30% grades and the proposed roadway will use a 10% grade through this section of the plateau. Due to the large amount of earthwork to make this roadway cut, a modified street section is being proposed to allow for the regional trail to be a closer offset from the roadway section, within the right of way.

Explain the proposed alternative and compare to the ECM standards (May provide applicable regional or national standards used as basis):

The proposed modified cross section intends to closely follow the Rural Local Cross Sections SD\_2-11 with the following modifications:

1. 2:1 backslopes (as provided by geotechnical engineering recommendations), to accommodate large cut sections
2. 8-foot trail on the right side of the alignment
3. A 4-foot, 8 inch deep, roadside ditch between the trail and gravel shoulder for drainage runoff from the right lane of the proposed roadway
4. A 1-foot-deep roadside ditch between the trail and the 2:1 slope

A modified typical section illustration is provided below:



**LIMITS OF CONSIDERATION**

(At least one of the conditions listed below must be met for this deviation request to be considered.)

- The ECM standard is inapplicable to the particular situation.
- Topography, right-of-way, or other geographical conditions or impediments impose an undue hardship and an equivalent alternative that can accomplish the same design objective is available and does not compromise public safety or accessibility.
- A change to a standard is required to address a specific design or construction problem, and if not modified, the standard will impose an undue hardship on the applicant with little or no material benefit to the public.

Provide justification:

The following reasons provide justification for why a modified cross section is being requested:

- The existing topography has over 30% grades and the proposed roadway will use a 10% grade through this section of the plateau.
- There is a proposed 37 cut (maximum cut height), with roadway grades at maximum EPC standards.
- Not requesting a change to public roadway longitudinal grades, as not to impact safety
- EPC Parks has requested the regional trail easement. The modified cross section provides a reasonable alternative to constructing the trail, rather than leaving EPC Parks to build the trail in the 25-foot easement without any realistic and constructable alignments through the plateau face. This will achieve the goal of connecting the Apex Ranch Subdivision with the Homestead Park.
- The modified section is proposed for approximately 1025 linear feet, through the cut section. The roadway cross section transitions to a standard section both before and after this section of roadway.

**CRITERIA FOR APPROVAL**

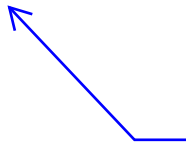
Per ECM section 5.8.7 the request for a deviation may be considered if the request is **not based exclusively on financial considerations**. The deviation must not be detrimental to public safety or surrounding property. The applicant must include supporting information demonstrating compliance with **all of the following criteria**:

The deviation will achieve the intended result with a comparable or superior design and quality of improvement.

A modified cross section closely follows the standard cross section and does not impact vehicular movement or safety. The modified section also considers pedestrian movement and safety while working within the constraints of the Site.

The deviation will not adversely affect safety or operations.

The proposed modifications will not adversely affect safety or operations of the proposed roads or trails. Drainage analysis has been completed to verify the sizing of the modified roadside ditches including adding additional culverts to protect the trail and roadway. The trail is offset 8 feet from the edge of the travel way, providing a buffer and protection for pedestrians on the trail.



identify if this is  
outside the clear  
zone.

The deviation will not adversely affect maintenance and its associated cost.

The deviation will not adversely affect maintenance and cost. The modification doesn't not include any component or features which require specialized maintenance activities and/or equipment.

The deviation will not adversely affect aesthetic appearance.

The planned roads will not adversely affect aesthetic appearance within the proposed development. The modified cross section generally follows the standard cross section except for the trail coming closer to the roadway and steeper backslopes.

The deviation meets the design intent and purpose of the ECM standards.

Proposed street/road design modifications meet the design intent and purpose of the ECM standards. Required roadway, pedestrian, and drainage provisions are included in the proposed cross sections.

The deviation meets the control measure requirements of Part I.E.3 and Part I.E.4 of the County's MS4 permit, as applicable.

The proposed design modifications do not change the ability to remain consistent with the control measure requirements of the County MS4 permit. All the runoff from the proposed roadways will be captured and receive water quality treatment provided by an existing detention pond. The drainage ditches has been designed in a way to capture impervious surfaces from the roadway and trail throughout the site.

**REVIEW AND RECOMMENDATION:**

**Approved by the ECM Administrator**

This request has been determined to have met the criteria for approval. A deviation from Section \_\_\_\_\_ of the ECM is hereby granted based on the justification provided.

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**Denied by the ECM Administrator**

This request has been determined not to have met criteria for approval. A deviation from Section \_\_\_\_\_ of the ECM is hereby denied.

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**ECM ADMINISTRATOR COMMENTS/CONDITIONS:**

## **1.1. PURPOSE**

The purpose of this resource is to provide a form for documenting the findings and decision by the ECM Administrator concerning a deviation request. The form is used to document the review and decision concerning a requested deviation. The request and decision concerning each deviation from a specific section of the ECM shall be recorded on a separate form.

## **1.2. BACKGROUND**

A deviation is a critical aspect of the review process and needs to be documented to ensure that the deviations granted are applied to a specific development application in conformance with the criteria for approval and that the action is documented as such requests can point to potential needed revisions to the ECM.

## **1.3. APPLICABLE STATUTES AND REGULATIONS**

Section 5.8 of the ECM establishes a mechanism whereby an engineering design standard can be modified when if strictly adhered to, would cause unnecessary hardship or unsafe design because of topographical or other conditions particular to the site, and that a departure may be made without destroying the intent of such provision.

## **1.4. APPLICABILITY**

All provisions of the ECM are subject to deviation by the ECM Administrator provided that one of the following conditions is met:

- The ECM standard is inapplicable to a particular situation.
- Topography, right-of-way, or other geographical conditions or impediments impose an undue hardship on the applicant, and an equivalent alternative that can accomplish the same design objective is available and does not compromise public safety or accessibility.
- A change to a standard is required to address a specific design or construction problem, and if not modified, the standard will impose an undue hardship on the applicant with little or no material benefit to the public.

## **1.5. TECHNICAL GUIDANCE**

The review shall ensure all criteria for approval are adequately considered and that justification for the deviation is properly documented.

## **1.6. LIMITS OF APPROVAL**

Whether a request for deviation is approved as proposed or with conditions, the approval is for project-specific use and shall not constitute a precedent or general deviation from these Standards.

## **1.7. REVIEW FEES**

A Deviation Review Fee shall be paid in full at the time of submission of a request for deviation. The fee for Deviation Review shall be as determined by resolution of the BoCC.