

Planning and Community Development Department 2880 International Circle Colorado Springs, Colorado 80910

DEVIATION REQUEST AND DECISION FORM

Updated: 6/26/2019

Phone: 719.520.6300 Fax: 719.520.6695

Website www.elpasoco.com

PROJECT INFORMA	ATION	
Project Name :	Trails at Aspen Ridge Filing No. 3 Phase 2	
Schedule No.(s):		
Legal Description :		
APPLICANT INFORI	MATION	
Company :	COLA, LLC	
Name :	Richard A. Van Seenus	
Mailing Address:	555 Middle Creek Parkway, Suite 500	
	Colorado Springs, CO 80920	
		<u> </u>
Phone Number :	719-747-2556	
FAX Number :		
Email Address:	rvanseenus@viewhomesinc.com	
ENGINEER INFORM	ATION	
Company :	Entech Engineering Inc.	
Name :	Joseph C Goode III	Colorado P.E. Number: 52381
Mailing Address:	505 Elkton Dr	
	Colorado Springs, CO 80907	
Phone Number :	719-531-5599	
FAX Number :		
Email Address :	jcg@entechengineers.com	

OWNER, APPLICANT, AND ENGINEER DECLARATION

To the best of my knowledge, the information on this application and all additional or supplemental documentation is true, factual and complete. I am fully aware that any misrepresentation of any information on this application may be grounds for denial. I have familiarized myself with the rules, regulations and procedures with respect to preparing and filing this application. I also understand that an incorrect submittal will be cause to have the project removed from the agenda of the Planning Commission, Board of County Commissioners and/or Board of Adjustment or delay review until corrections are made, and that any approval of this application is based on the representations made in the application and may be revoked on any breach of representation or condition(s) of approval.

Signature of owner (or authorized representative)

12/2/2024 Date

Engineer's Seal, Signature And Date of Signature

Digitally signed by Joseph C Goode III

Date: 11/27/24

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

A deviation from the standards of or in Section D.3.3-D.4.1F of the Engineering Criteria Manual (ECM) is requested.

Identify the specific ECM standard which a deviation is requested:

A deviation in ECM D.3.3 and D.4.1.F is requested to use a composite section of asphalt and mechanically stabilized base (MSB) as opposed to a composite section of asphalt over aggregate base course. MSB will consist of recycled concrete base (RCB) and Tensar Nx750 composite polymer geogrid.

The development filing is Trails at Aspen Ridge Filing No. 3 Phase 2. The roadways included are Rainy Creek Trail, Triple Tree Street, and Turkey Flat Lane.

State the reason for the requested deviation:

A 5.0 inches HMA over 6.0 inches of MSB is proposed to provide a composite section with a higher structural number than the minimum section required and more constructable HMA section due to the site subgrade materials and shallow depths to utility infrastructure. Site utilities including gas utility and water lines are located within 12 inches of the top of payement subgrade which restricts the ability to rework site native subgrade.

A MSB layer consisting of recycled concrete base (RCB) and Tensar Nx750 composite polymer geogrid is recommended.

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The ECM minimum pavement section of 3.0 inches HMA over 8.0 inches ABC provides a structural number of 2.20 (3.0*0.44+8*0.11). The required structural number for the project site is 3.47 based on the site subgrade soils.				
The proposed alternative pavement section of 5.0 inches HMA over 6.0 inches MSB (recycled concrete base with Tensar NX750) provides a structural number of 3.616 (5.0*0.44+6*0.236) which exceeds the required structural number of 3.47. In addition, the 5.0 inches HMA over 6.0 inches MSB will be placed on an additional 6 inches of RCB and Nx750 geogrid for subgrade stabilization.				
Based on guidance from Tensar+ software, a structural layer coefficient of 0.236 was used for the MSB. The structural layer coefficient for the MSB is based on guidance and research provided by Tensar and the Tensar+ design software. Empirical analysis and full-scale pavement tests with traffic have been carried out as part of the basis for design guidance.				

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

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:			
	As described above, the required Structural Number of 3.47 is exceeded with a composite section of 5.0 inches HMA over 6.0 inches MSB with no compromise to public safety or accessibility. ECM layer coefficients presented in Table D-3 do not include mechanically stabilized base, therefore 0.236 was used for design of the pavement section based on guidance from Tensar. The design structural number of 3.616 exceeds the required structural number of 3.47.			
C	RITERIA FOR APPROVAL			
<u>c</u>	er ECM section 5.8.7 the request for a deviation may be considered if the request is <u>not based exclusively on financial</u> onsiderations. The deviation must not be detrimental to public safety or surrounding property. The applicant must include upporting information demonstrating compliance with <u>all of the following criteria</u> :			
	The deviation will achieve the intended result with a comparable or superior design and quality of improvement.			
	As described above the structural number for the proposed section will be higher than the ECM minimum.			
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	The deviation will not adversely affect safety or operations.			
	The proposed change will not affect or change safety or operations as the asphalt roadway will meet the criteria for public roadways.			

The deviation will not adversely affect maintenance and its associated cost.	
Once the roadway is a part of the county maintenance program there will be no additional maintenance and maintenance	costs as
the mechanically stabilized base will provide superior long-term support of the roadway.	
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The deviation will not adversely affect aesthetic appearance.	
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The proposed change is underlying the asphalt layer so will have no visible aesthetic affect. The roadway will look the sam	ne as
any new asphalt roadway in El Paso County.	
The deviation meets the design intent and purpose of the ECM standards.	
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REVIEW AND RECOMMENDATION:

Approved by the ECM Administrator		
This request has been determined to have hereby granted based on the justification process.	met the criteria for approval. A deviation from Sectionrovided.	of the ECM is
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Denied by the ECM Administrator		
This request has been determined not to ha hereby denied.	ave met criteria for approval. A deviation from Section	of the ECM is
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L	ı	
ECM ADMINISTRATOR COMMENTS/COM	NDITIONS:	

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.

Page **7** of **7**

PCD File No. SF2122