M V E , Inc.

February 12, 2025

El Paso County
Planning and Community Development Department
2880 International Circle, Suite 110
Colorado Springs, CO 80910

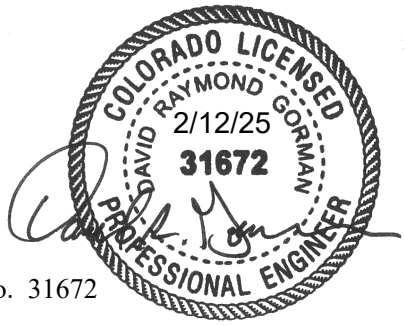
Attn: Brad Walters
Inspection Supervisor

Re: ***Matika Subdivision Filing No. 1 (CDR-21-003) (ASB238)***
Roadway and Stormwater Permanent Control Measures – Engineer's Letter
M.V.E. Project No. 61154

Dear Mr. Walters:

The public roadway and stormwater Permanent Control Measures (PCMs) for Matilka Subdivision Filing No. 1 consists of the roadway improvements for Marshbern Court from station 1+15.04 to the cul-de-sac radius point at station 18+08.33, one (1) 60" RCP culvert, one (1) set of culvert inlet and outlet riprap protection, four (4) permanent rock check dams with two located on the south side of the road at approximate stations 3+60, 5+20 and two located approximately 60' and 90' downstream of the 60" culvert outlet, one (1) permanent rock check with ditch-out located on the north side of the road at approximate station 12+25, along with the Receiving Pervious Areas (RPAs) for Runoff Reduction as shown in the approved Drainage Letter for the project. Based upon information gathered during during the final project site visit and as-built survey data, M.V.E., Inc. is of the opinion that the public roadway and stormwater Permanent Control Measures (PCMs) have been constructed in general compliance with the approved Roadway Construction Plans, Grading and Erosion Control Plan, and Drainage Letter prepared by M.V.E., Inc., as filed with the County.

Statement Of Engineer In Responsible Charge:
I, David R. Gorman, a registered Professional Engineer in the State of Colorado, in accordance with Sections 5.2 and 5.3 of the Bylaws and Rules of the State Board of Registration for Professional Engineers and Professional Land Surveyors, do hereby state and declare that I or a person under my responsible charge observed the constructed facilities of the above mentioned project. Based on the on-site field observations and review of pertinent documentation, it is my professional opinion that the public roadway improvements and the Permanent Control Measures have been installed and are in general compliance with the approved Roadway Construction Plans and approved Grading and Erosion Control Plan as filed with the El Paso County. The site and adjacent properties (as affected by work performed under the County permit) are stable with respect to settlement and subsidence, sloughing of cut and fill slopes, revegetation or other ground cover, and that the improvements (public improvements, common development improvements, site grading and paving) meet or exceed the minimum design requirements as set forth on the approved Roadway Construction Plans, Grading and Erosion Control Plan, and Drainage Letter prepared by M.V.E., Inc., as filed with the County.



David R. Gorman, P.E. Colorado No. 31672
For and on Behalf of M.V.E., Inc.

Z:\61154\Documents\Correspondance\61154 Civil Engineers PCM Facility Letter 2.odt

Design Procedure Form: Runoff Reduction

UD-BMP (Version 3.07, March 2018)

Designer:
Company: M.V.E., Inc.
Date: February 12, 2025
Project: Matika Subdivision
Location: Marshbern Court - 6' Wide Strip

SITE INFORMATION (User Input in Blue Cells)

WQCV Rainfall Depth: 0.60 inches
Depth of Average Runoff Producing Storm, d_6 = 0.43 inches (for Watersheds Outside of the Denver Region, Figure 3-1 in USDCM Vol. 3)

Area Type	UIA:RPA	UIA:RPA	UIA:RPA	UIA:RPA		UIA:RPA	UIA:RPA					
Area ID	A1-1	A1-2	A1-3	A1-4		A2-1	A2-2					
Downstream Design Point ID	DP13	DP13	DP13	DP13		DP12	DP12					
Downstream BMP Type	None	None	None	None		None	None					
DCIA (ft^2)	--	--	--	--		--	--					
UIA (ft^2)	7,596	13,626	7,179	9,136		5,457	25,750					
RPA (ft^2)	2,766	3,140	2,662	2,616		1,997	8,875					
SPA (ft^2)	--	--	--	--		--	--					
HSG A (%)	0%	0%	0%	0%		0%	0%					
HSG B (%)	100%	100%	100%	100%		100%	100%					
HSG C/D (%)	0%	0%	0%	0%		0%	0%					
Average Slope of RPA (ft/ft)	0.050	0.037	0.014	0.024		0.023	0.029					
UIA:RPA Interface Width (ft)	400.00	450.00	400.00	393.00		339.00	700.00					

CALCULATED RUNOFF RESULTS

Area ID	A1-1	A1-2	A1-3	A1-4		A2-1	A2-2					
UIA:RPA Area (ft^2)	10,362	16,766	9,841	11,752		7,454	34,625					
L / W Ratio	0.06	0.08	0.06	0.08		0.06	0.07					
UIA / Area	0.7331	0.8127	0.7295	0.7774		0.7321	0.7437					
Runoff (in)	0.09	0.20	0.08	0.14		0.08	0.09					
Runoff (ft^3)	73	273	64	142		52	266					
Runoff Reduction (ft^3)	243	295	235	239		176	806					

CALCULATED WQCV RESULTS

Area ID	A1-1	A1-2	A1-3	A1-4		A2-1	A2-2					
WQCV (ft^3)	317	568	299	381		227	1073					
WQCV Reduction (ft^3)	243	295	235	239		176	806					
WQCV Reduction (%)	77%	52%	78%	63%		77%	75%					
Untreated WQCV (ft^3)	73	273	64	142		52	266					

CALCULATED DESIGN POINT RESULTS (sums results from all columns with the same Downstream Design Point ID)

Downstream Design Point ID	DP13	DP12										
DCIA (ft^2)	0	0										
UIA (ft^2)	37,537	31,207										
RPA (ft^2)	11,184	10,872										
SPA (ft^2)	0	0										
Total Area (ft^2)	48,721	42,079										
Total Impervious Area (ft^2)	37,537	31,207										
WQCV (ft^3)	1,564	1,300										
WQCV Reduction (ft^3)	1,011	982										
WQCV Reduction (%)	65%	76%										
Untreated WQCV (ft^3)	553	318										

CALCULATED SITE RESULTS (sums results from all columns in worksheet)

Total Area (ft^2)	90,800
Total Impervious Area (ft^2)	68,744
WQCV (ft^3)	2,864
WQCV Reduction (ft^3)	1,994
WQCV Reduction (%)	70%
Untreated WQCV (ft^3)	871