To the MASTER DEVELOPMENT DRAINAGE REPORT for THE RIDGE AT CUMBRE VISTA MASTER PLAN and FINAL DRAINAGE REPORT for THE RIDGE AT CUMBRE VISTA FILING NO. 1

March 2016

Prepared for:

Rivers Cumbre Vista, LLC 13530 Northgate Estates Drive, Suite 200 Colorado Springs, CO 80921 Brian Bahr

Prepared by:



20 Boulder Crescent, Suite 110 Colorado Springs, CO 80903 (719) 955-5485

Project #08-024

(Amendment Letter)

To the

MASTER DEVELOPMENT DRAINAGE REPORT for THE RIDGE AT CUMBRE VISTA MASTER PLAN and FINAL DRAINAGE REPORT for THE RIDGE AT CUMBRE VISTA FILING NO. 1

DRAINAGE PLAN STATEMENTS

ENGINEER'S STATEMENT

The attached drainage plan and report were prepared under my direction and supervision and are correct to the best of my knowledge and belief. Said drainage report has been prepared according to the established criteria for drainage reports and said report is in conformity with the master plan of the drainage basin. I accept responsibility for any diability caused by any negligent acts, errors or omissions on my part in preparing this report. Virgit A Sanchez, P.E. #37160 For and on Behalf of M & S Civil Consultants, Inc. DEVELOPER'S STATEMENT I, the developer, have read and will comply with all the requirements specified in this drainage report and plan. Rivers (BY: DATE: 3/18/16 Brian Bahr TITLE:

ADDRESS:

Rivers Cumbre Vista, LLC

13530 Northgate Estates Drive, Suite 200

Colorado Springs, CO 80921

CITY OF COLORADO SPRINGS

Filed in accordance with Section 7-7-906 of the Code of the City of Colorado Springs, 2001, as amended.

For the City Engineer

CONDITIONS:

(Amendment Letter)

To the

MASTER DEVELOPMENT DRAINAGE REPORT for THE RIDGE AT CUMBRE VISTA MASTER PLAN and FINAL DRAINAGE REPORT for THE RIDGE AT CUMBRE VISTA FILING NO. 1

CERTIFICATION STATEMENT

"This report and plan for the final drainage design of The Ridge at Cumbre Vista Filing No.1 was prepared by me (or under my direct supervision) in accordance with the provisions of City of Colorado Springs Drainage Criteria Manual Volumes 1 and 2, Drainage Design and Technical Criteria for the owners thereof. I understand that the City of Colorado Springs does not and will not assume liability for drainage facilities designed by others."

SIGNATURE:

Virgil A. Sanchez, P.E. #37160 For and on Behalf of M & S. Civil Consultants, Inc.

"Rivers Cumbre Vista, LLC hereby certifies that the drainage facilities for the Master Development Drainage Report for the Ridge at Cumbre Vista and the Final Drainage Report for the Ridge at Cumbre Vista Filing No. 1 shall be constructed according to the design presented in this report. Rivers Cumbre Vista, LLC understand that the City of Colorado Springs does not and will not assume liability for the drainage facilities designed and/or certified by my engineer and that the City of Colorado Springs reviews drainage plans pursuant to Colorado Revised Statutes, Title 30, Article 28 (verify reference to CRS); but cannot, on behalf of the Master Development Drainage Report for the Ridge at Cumbre Vista and the Final Drainage Report for the Ridge at Cumbre Vista Filing No. 1, guarantee that final drainage design review will absolve Rivers Cumbre Vista, LLC and/or their successors and /or assigns of future liability for improper design. Rivers Cumbre Vista, LLC further understand that approval of the final plat does not imply approval of my engineer's drainage design."

Rivers Cumbre Vista, LLC

Brion Doba

DATE: 3/18/16



March 18, 2016

City of Colorado Springs Subdivision Engineering Review Team 30 South Nevada Avenue, Suite 401 Colorado Springs, Colorado 80903 Attn: Elizabeth Nijkamp

RE: Amendment Letter to the Master Development Drainage Report for the Ridge at Cumbre Vista and the Final Drainage Report for the Ridge at Cumbre Vista Filing No. 1.

Dear Elizabeth,

The following is the Final Drainage Letter to amend the Master Development Drainage Report for the Ridge at Cumbre Vista and the Final Drainage Report for the Ridge at Cumbre Vista Filing No. 1, prepared by M&S Civil Consultants dated October 2014.

This letter is being prepared to accompany the proposed Development Plan amendment for the Ridge at Cumbre Vista Filing No. 1 (3.666 acres) and the for the Ridge at Cumbre Vista Filing No. 2 (10.079 acres). The amendments to the Development Plan consist of the removal of a retaining wall (see Exhibit 2-approved grading plan GR02) along the east property boundary and the subsequent grading to tie into existing grades along the east boundary. Specifically, this grading change affects lots 24 through 37 (see Exhibit 1 for lot designation and drainage basin information).

Grading changes will result in an increase of acreage and runoff from the previous report to the back yards of these lots in Basin A and a decrease of acreage and runoff in Basin B (see Exhibit 1). Basin A (in Exhibit 1) contains 1.04 acres of single family residential rear yard drainage and has proposed design flows of Q5=1.2 cfs and Q100=3.1 cfs. Rear yard/grass drainage runoff from Basin A will sheet flow offsite onto Kit Carson Riding Club property. These flows are less than the historic design flows (see Exhibit 3-Historic Drainage Plan) in Basin B, Q5=4.4 cfs and Q100=11.0 cfs, hence it is anticipated to not adversely affect adjacent or downstream property. As revised, Basin B (in Exhibit 1) contains 1.51 acres of single family residential and residential streets and has proposed design flows of Q5=2.9 cfs and Q100=6.0 cfs. These flows are less than the previously calculated design flows and will include all roof drains from the single family homes along the east side of Glory drive (see Exhibit 4-Final Drainage Plan) in Basin B, Q5=3.2 cfs and Q100=6.6 cfs, hence it will not adversely affect downstream inlets, storm sewer and detention facility infrastructure. In general, no impacts to drainage patterns and/or quantities to storm facilities is anticipated.

It is our understanding that drainage/bridge/pond fees have been paid on the site.

The amendment drainage letter and development of the Ridge at Cumbre Vista Filing No. 1 & 2 shall not adversely affect adjacent or downstream property and is in accordance with the Master Development Drainage Report for the Ridge at Cumbre Vista and the Final Drainage Report for the Ridge at Cumbre Vista Filing No. 1.

Respectfully,

Virgil A. Sanchez, P.E.

M&S Civil Consultants, Inc.

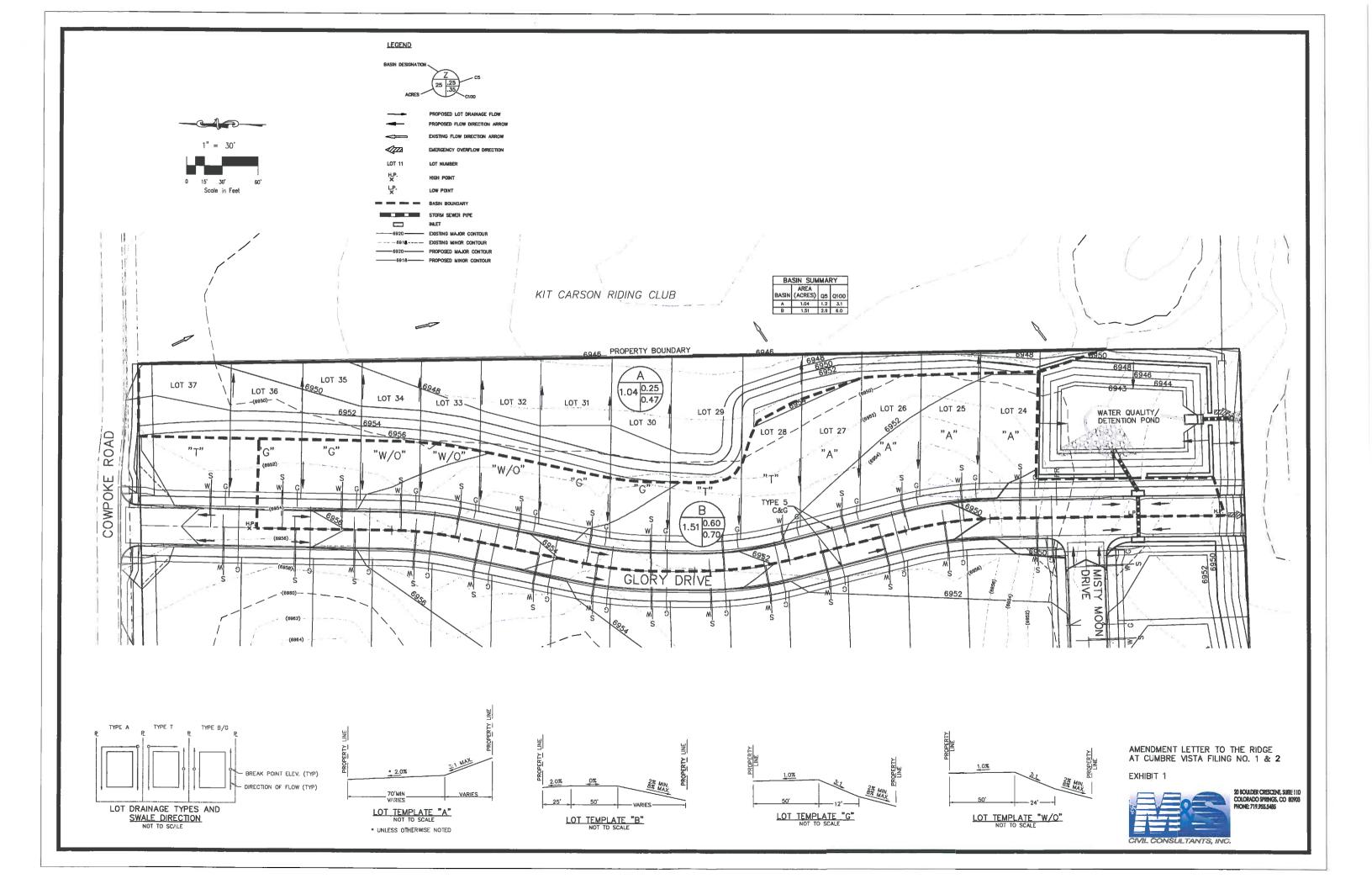
Attachments:

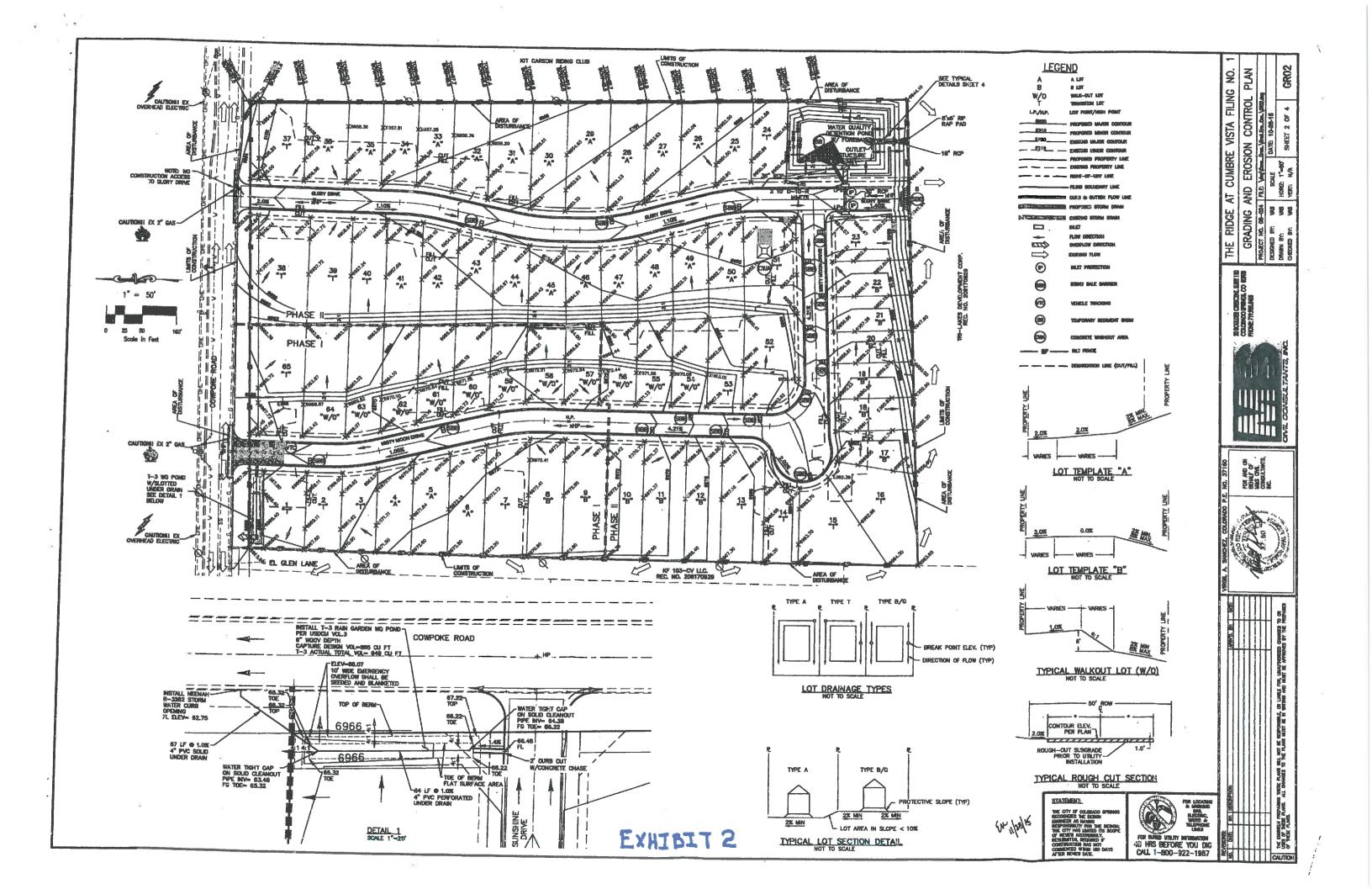
Exhibit 1- Revised Grading and Drainage Basins

Exhibit 2-Approved Grading & Erosion Control Plan GR02

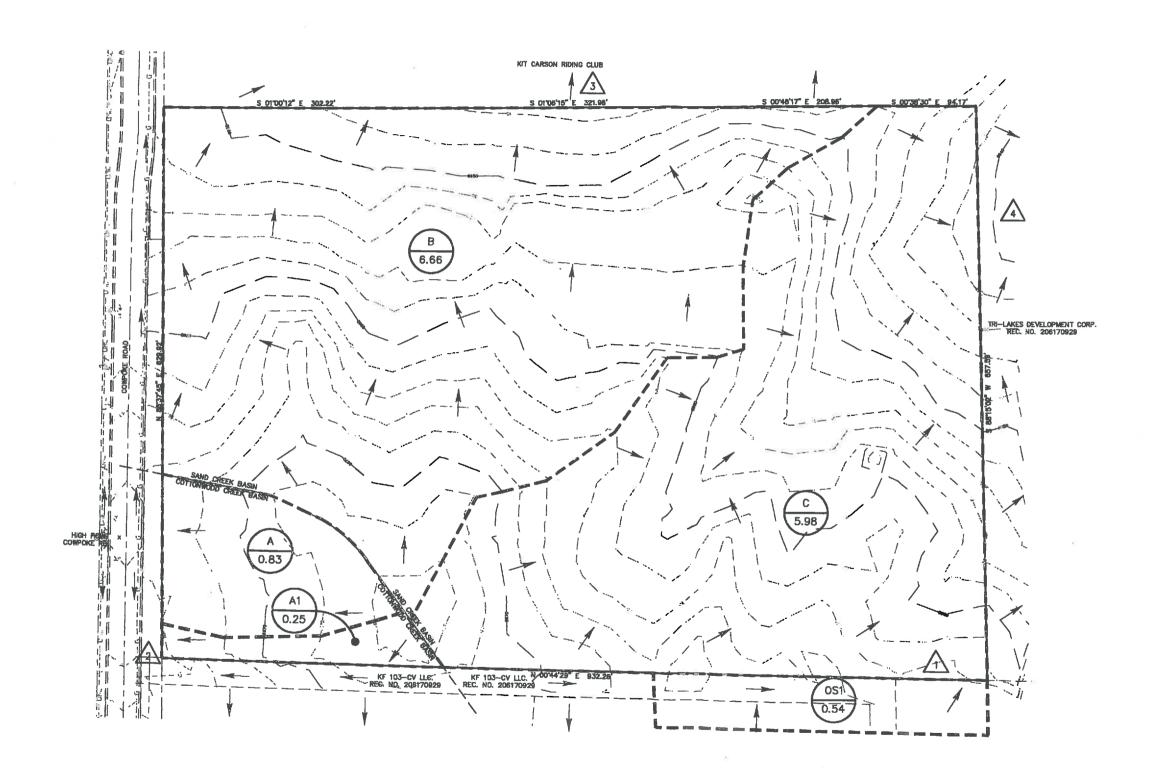
Exhibit 3-Historic Drainage Plan

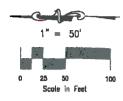
Exhibit 4-Final Drainage Plan





THE RIDGE AT CUMBRE VISTA FILING NO. 1 HISTORIC DRAINAGE FLOWS





LEGEND



EX MAJ CONT







SURFACE ROUTING POINT

DESIGN POINT TABLE		
DESIGN PT.	FLOW Qs	FLOW Q100
1	0.5	1.2
2	0.9	2.2
3	4.4	11.9
4	4.4	11.0

RIDGE AT CUMBRE VISTA FILING NO. 1
TORIC DRANAGE PLAN
NO. 08-024
E PREPARED: JANUARY 8, 2014
E REVISED: SEPTEMBER 1, 2014



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