

April 13, 2011

Rory Hogan, Assistant Engineer
Carson City Engineering Division
108 E. Proctor St.
Carson City, NV 89701

RE: Eagle Valley Middle School
Special Use Permit Conceptual Drainage Letter

Introduction

The Eagle Valley Middle School is located at 4151 East 5th Street and consists of approximately 39.22 acres. Access into the school is located at the intersection of Regent Court and 5th Street as well as off of Hidden Meadow Drive east of the intersection with 5th Street. Proposed improvements include a 22,300+/- square foot building expansion, parking lot addition, separated student pick-up/drop-off area, relocated outdoor basketball courts, and "gathering area" with a potential amphitheater.

Existing Hydrology

Currently drainage on-site is carried via curb and gutter and storm drain from the interior of the site north and east towards 5th Street. A small amount of flow on the eastern side of the site drains to Hidden Meadow Drive to two existing catch basins located at the intersection with Buzzys Ranch Road.

Proposed Drainage Facilities

Based on the proposed improvement shown on the Conceptual Site Plan prepared for the Special Use Permit it is anticipated that the impervious area on-site will increase by approximately 1.0 acre. With the additional impervious area, a detention/retention pond is necessary to minimize the increase in flow downstream of the project.

Two detention/retention ponds are being proposed with the development at this time. One pond is located west of the new entrance for the student pick-up/drop-off area, while the second is located on the eastern side of the project north of the new building addition. These ponds will be sized to accommodate the increase in overall flows for the project.

Conclusion

It is anticipated that the proposed improvements will increase the impervious area on-site by approximately 1.0 acre. To mitigate the increase in storm flows, two detention/retention ponds have been identified on the Conceptual Site Plan. Future storm drain sizing and alignments will be determined during the preparation of final plans along with a detailed drainage analysis.



It is anticipated that the proposed improvements will not adversely impact upstream or downstream properties adjacent to the site.

Exhibits

Please see the Conceptual Site Plan included with the Permit application.

If you have any questions or comments regarding the information provided in this letter, please don't hesitate to call.

Thank you,

Kenneth W. Anderson, P.E.
Project Manager
Manhard Consulting LTD.



4/13/11

construction and materials shall comply with 2006 international building code (ibc) and/or local code requirements.

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drawn: Author
checked: Checker

Revision Schedule		
#	Date	Description

Eagle Valley Remodel/Addition
Carson City School District
4151 East 5th Street
Carson City, Nevada

Project Status

drawing title
Exterior Elevations

job number
1102.1

date
12 APRIL 2011

drawing number
A5.1

