

Nevada Division of
WATER RESOURCES

STATE OF NEVADA
Department of Conservation and Natural Resources
Joe Lombardo, Governor
James A. Settelmeyer, Director
Adam Sullivan, P.E., State Engineer

June 20, 2023

Kevin Orrock
Howard Hughes Corporation
10845 Griffith Peak Drive, Suite 160
Las Vegas, NV 89135-1555

Re: Grand Park Detention Basin (NV10952, J-766) Engineering Design Change (EDC) Approval

On May 10, 2023, our office received an EDC request for the construction of a park downstream of the Grand Park Detention Basin Dam. The EDC is approved as submitted.

Upon completion of the project, please submit an updated 'as-built' survey of the detention basin with the downstream modifications to verify that the project was constructed per the approved EDC. This can be updated as-builts of the three sheets submitted to support the EDC (EX1 through EX3).

This authorization does not waive or abrogate the necessity of gaining any permits or authorizations from other state, local or federal agencies that may be required.

Should you have any questions, please call the undersigned at (775) 684-2800.

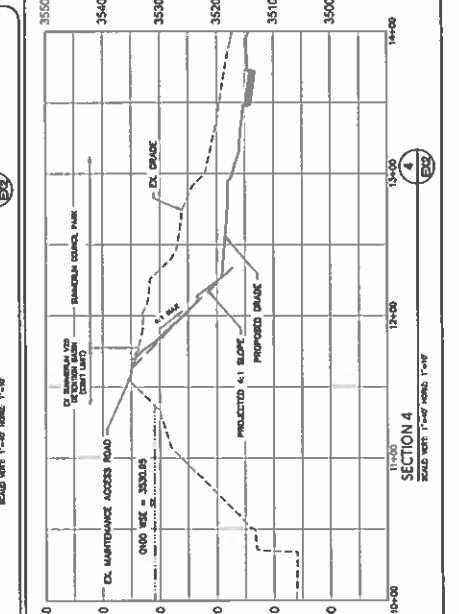
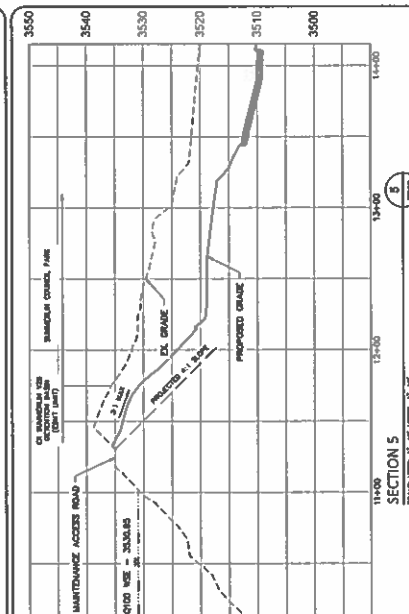
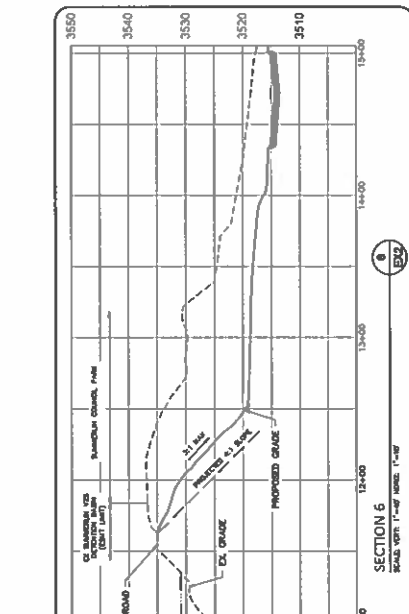
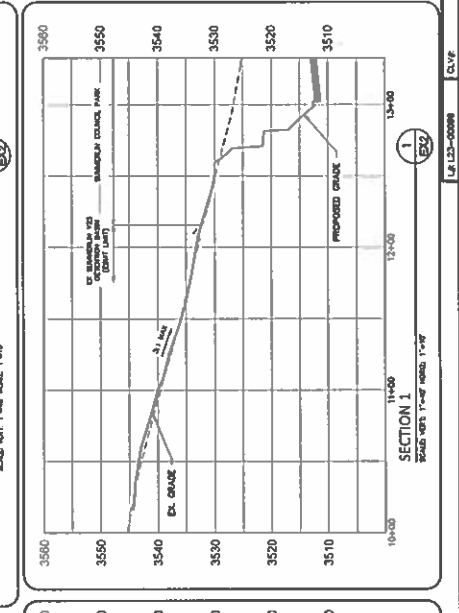
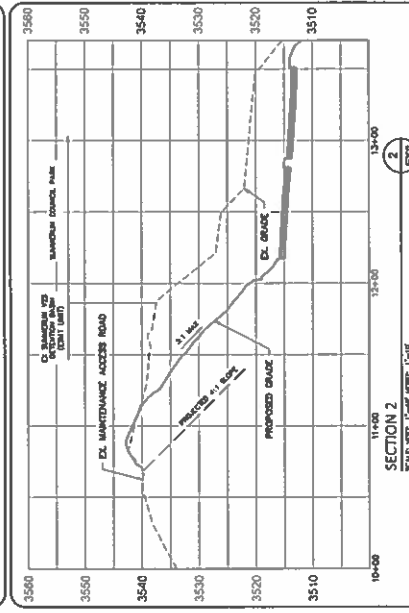
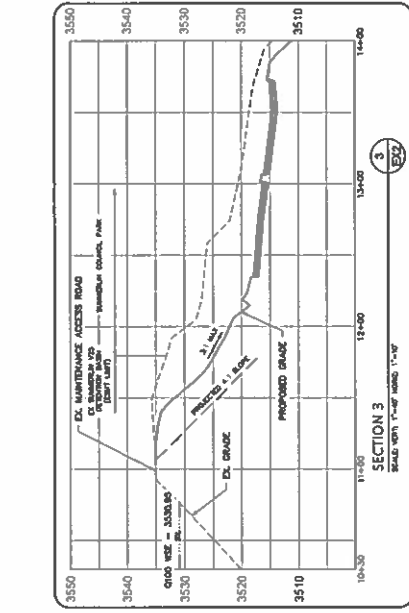
Sincerely,

Keith Conrad, P.E.
Manager 2, Dam Safety

KWC/lr

Enclosures

cc: Todd Myers, P.E., Clark County Regional Flood Control District, E-mail
Brian Ruiz, P.E., VTN Nevada, E-mail
Jerry Pruitt, P.E., GCW Inc., E-mail
Martin Jensen, P.E., Universal Engineering Sciences, E-mail
Ken Haffey, P.E., NDWR, E-mail



GCW Engineering
1555 South Rainbow Boulevard
Las Vegas, NV 89146

May 9, 2023

Attn: Jerry Pruitt

**Re: Geotechnical Letter
Grand Park Detention Basin
Summerlin Village 25
Las Vegas, Nevada
Nova Project No.: G-18-232**

Dear Jerry:

It is our understanding that the Nevada Division of Water Resources (NDWR) is concerned that the improvements for the proposed Grand Park will encroach on the natural impoundment for the Grand Park Detention Basin, thereby creating an "embankment" where there was not one before.

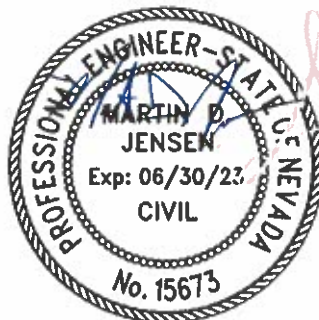
Based on our review of cross-section exhibits provided to us by GCW, it appears that the natural impoundment will be cut back on the downstream side. The seepage and slope stability analysis conducted for the basin was based on 4 to 1 (horizontal to vertical) slopes. The cross-sections provided to us show that the proposed slopes are all above a projected 4 to 1 slope. Therefore, it is our opinion that the proposed cuts for Grand Park will not encroach enough on the impoundment to necessitate additional slope stability and seepage analyses.

Our professional services were performed using the degree of care and skill ordinarily exercised, under similar circumstances, by reputable geotechnical engineers practicing in this or similar localities. No warranties, either expressed or implied, are intended or made. Should you have any question, please do not hesitate to call.

Respectfully,

Universal Engineering Sciences

Martin D. Jensen, P.E.
Principal Engineer



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Sciences,
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