



2748

DS#

DS INDEX

APN

125 -25 - 302-001

PROJECT

Elementary School at El Campo Grande & Bradley

4<sup>th</sup>

SUBMITTAL



file

<b>CITY OF LAS VEGAS INTER-OFFICE MEMORANDUM</b>		<b>DATE:</b> November 20, 2000
<b>TO:</b> Land Development Services Department of Public Works		<b>FROM:</b> Randy Fultz, P.E. <i>RF</i> Flood Control Project Manager Department of Public Works
<b>SUBJECT:</b> Drainage Study for: Elementary School at El Campo Grande & Bradley		<b>COPIES TO:</b> Clark County School District Nevada By Design, LLC JMA Architecture Studios Cheri Edelman, P.E., CLV DevCo
<b>Cross Streets:</b>	NW of El Campo Grande Av. & Bradley Rd.	
<b>FILE NO.:</b>	F:\Depot\DSMEMOS\DS2748D.doc	
<b>Parcel Number:</b>	125-25-302-001	
<b>Zoning Action:</b>		
<b>FEMA Flood Zone</b>	YES NO X	
<b>Proposed Storm Drain</b>	YES X NO	

HISTORY	DATE RECEIVED	DATE REVIEWED	COMMENTS	REVIEW FEES
1 <sup>st</sup> Submittal	07/25/2000	08/08/2000	Not Acceptable	N/C
2 <sup>nd</sup> Submittal	09/25/2000	10/05/2000	Not Acceptable	N/C
3 <sup>rd</sup> Submittal	10/25/2000	11/02/2000	Not Acceptable	N/C
4 <sup>th</sup> Submittal	11/17/2000	11/20/2000	See Comments Below	N/C
<b>TOTAL FEES:</b>				<b>N/C</b>

**REMARKS:**

3<sup>rd</sup> Submittal (Addendum 2)

The Drainage Study for the subject project has been reviewed and:

<b>X</b>	is acceptable in concept subject to conformance to all City standards and the following conditions.
	must be resubmitted or supplemented including the following:
	must have Clark County Regional Flood Control District concurrence

**NOTE:** Any future changes to the proposed design (or design assumptions) as outlined in the approved drainage study and attached preliminary grading plan which affect drainage must be addressed in a Drainage Study Amendment and accepted by the City of Las Vegas Flood Control Section. Additionally, conditional acceptance of a drainage study is valid for a period of one (1) year. If the proposed construction has not been completed in that time period, the City of Las Vegas reserves the right to require additional conditions and/or submission and acceptance of a complete drainage study update prior to further construction of a project.

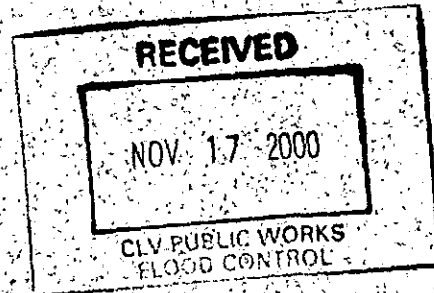
**PLANS SENT TO LAND DEVELOPMENT** Yes (initial)

**END OF REMARKS**

Ssn/jwb

T/R/S: T19S/R60E/25

AREA G-25



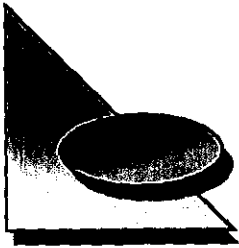
**ADDENDUM #3  
TO THE  
TECHNICAL DRAINAGE STUDY  
FOR THE  
ELEMENTARY SCHOOL AT  
EL CAMPO GRANDE AVENUE  
AND BRADLEY ROAD**

2748  
G-25  
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**NBD Project CE00041  
CCSD Project 1461  
November 17, 2000**

**Prepared by:**

**Nevada By Design  
3515 E. Harmon Avenue  
Las Vegas, Nevada 89121**



# Nevada By Design

ENGINEERING CONSULTANTS

3515 E. Harmon Avenue ■ Las Vegas, NV 89121 ■ Phone 702•938•1525 ■ Fax 702•938•1530

November 17, 2000

City of Las Vegas  
Department of Public Works  
731 South Fourth Street  
Las Vegas, Nevada 89101  
Attn: Mr. Randy Fultz, P.E.

**RE: Technical Drainage Study - Addendum No. 3 (Submittal No. 4)  
Elementary School at El Campo Grande Avenue and Bradley Road  
CCSD Project No. 1461**

Dear Mr. Fultz:

This letter is in response to your comments dated November 2, 2000 regarding the above referenced project.

## CITY OF LAS VEGAS COMMENTS

**Comment 1** The engineer indicates the flows from the west of Leon Avenue will drain through sidewalk drains to standard street drop inlets. However, no sidewalk drains were being shown along the west sidewalk and will need to be clearly addressed. A recommended alternate to this is to drain into the back of the catch basins.

**Response 1** Noted. We have detailed the drop inlets on Leon Avenue to provide for a wall opening, and modification of the County Standard Dwgs. to provide for an additional opening in the back of the drop inlet. As shown, the width of the drop inlet is modified to 5-ft. to match the back of sidewalk at the wall opening and thereby eliminating the need for a under sidewalk drain.

**Comment 2** The response to previous Comment 1 also indicates the proposed 18-inch storm drain is discharging directly into an existing 54-inch storm drain, while the lateral profiles indicated this 18-inch connected to existing concrete box with solid grout around the joints. A CLV staff field inspection shows a large grate inlet into a box structure that discharges to the 54" RCP. This structure must be shown on a detail with the 18" RCP connection.

*Response 2* Noted. We have provided a detail of the existing box and the proposed 18" storm drain connection on Sheet C5.07 of the revised plans.

*Comment 3* **The outfall details on Sheet C9.01, showing a 21-inch pipe with 48-inch wide outlet that is discharged into a 2-foot sidewalk under-drain. This outlet structure should not be wider than 24-inch. Also, the detail on C9.01 shows a 21-inch storm-drain discharging into this flume, where Sheet C3.01 indicates only an 8-inch PVC drain. Please clarify.**

*Response 3* Noted. The details as shown on C9.01 have been corrected to provide for the 8-inch storm drain and the appropriate outlet structure.

*Comment 4* **Notes 11 and 19 (SD) on Sheet C4.01 are for a 2-foot sidewalk under-drain and a matching concrete flume. These notes must be labeled on each location on all plans, where a flume and sidewalk drain are required.**

*Response 4* Noted. The plans have been revised to indicate the appropriate construction note and reference detail call-out at each location.

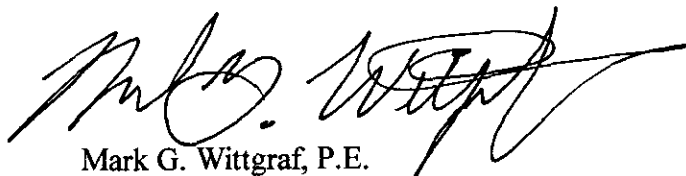
*Comment 5* **The typical section for Leon Avenue on Sheet C5.01 must clearly show and label the extent of the retaining/screen wall at the west back of sidewalk. Multiple block-wall openings must be provided to pass 300 cfs identified in the drainage study. Three 20-foot wide block-wall opening with wrought iron gates must be provided to pass this flow. The opening must be centered on the valley gutter at Corbett Street and El Campo Grande Avenue, and behind the inlet in Leon between Corbett and El Campo Grande.**

*Response 5* Noted. We have redesigned the proposed screen wall along the west side of Leon Avenue and provided the requested 20-ft. openings at the cross gutter at Corbett Street (approx. Station 10+27) and behind the drop inlet at approximate Sta. 12+50. The wall ends 2 feet beyond the drop inlet at approx. Sta. 16+13. This is to provide for the future extension of El Campo Grande to the west. Since the wall does not continue across the intersection this will provide a flow path for any flows reaching this point in the 100-year event. As previously discussed, we are matching the existing pavement at the intersection to ensure the existing drainage path remains the same.

We have enclosed two copies of the revised plans for your use. If you should have any questions or comments, please don't hesitate to call this office at (702) 938-1525.

Sincerely,

**NEVADA BY DESIGN**

A handwritten signature in black ink, appearing to read 'Mark G. Wittgraf', with a long horizontal flourish extending to the right.

Mark G. Wittgraf, P.E.  
Senior Engineer