

DS #: 4485

APN: 139-33-610-026

PROJECT: PARKING GARAGE AT SMITH CENTER FOR THE PERFORMING ARTS (UNION PARK PARCEL H/I)

SUBMITTAL: 2ND

SCANNED BY/DATE: _____

CHECKED BY/DATE: _____



CITY OF LAS VEGAS INTER-OFFICE MEMORANDUM

DATE:

January 12, 2011

TO:

Land Development Services
Department of Public Works

FROM:

Albert Sung, P.E.
Flood Control Project Engineer
Department of Public Works

SUBJECT:

Drainage Study for:

Parking Garage at Smith Center for the Performing Arts
(Union Park Parcel H/I)

COPIES TO:

Martin & Martin Civil Engineers, Inc.

Cross Streets:

NEC of West Clark Ave. & Promenade Way

City Parkway V, Inc.

File Number:

F:\Depot\DSMemos\DS4485B.doc

Bart Anderson, P.E., DevCo

Parcel Number:

139-33-610-026

Zoning Action:

SDR-40146

FEMA Flood Zone

YES

NO

X

Proposed Storm Drain

YES

NO

X

HISTORY	DATE RECEIVED	DATE REVIEWED	COMMENTS	REVIEW FEES	FEES PAID Transaction #
1 st Submittal	9/30/2010	10/11/2010	Not Approved	\$400.00	154717: \$400
2 nd Submittal & Supplement (Zoning Condition Recv'd)	11/5/2010 & 1/12/2011	1/12/2011	See Comments Below	\$400.00	156962: \$400
TOTAL FEES (LDDRS):				\$800.00	----

REMARKS:

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

X	is approved subject to conformance to all City standards and the following conditions:
	must be resubmitted or supplemented including the following:
	is conditionally approved subject to 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.

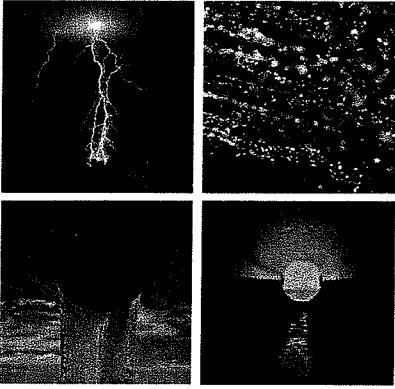
NOTE: Please be advised that all land surface area disturbances over 1 acre or any area adjacent to a water way must submit to the *Nevada Division of Environmental Protection* a "Notice of Intent" to discharge that certifies a stormwater pollution prevention plan has been developed and is maintained on site; for inclusion in the Stormwater General Permit No. NVR100000. A phased construction unit in a contiguous subdivision is considered under construction until all stripped or disturbed surface areas have been covered by paving, building construction or planting. For more information, including forms and applications see <http://ndep.nv.gov/bwpc/storm01.htm> or call (775) 687-9429.

END OF REMARKS

ays

T/R/S: T20S/R61E/33

AREA M-33



ADDENDUM #1 TO UPDATE #4
Of THE
TECHNICAL DRAINAGE STUDY
THE SMITH CENTER FOR THE PERFORMING
ARTS (AT UNION PARK, PARCEL H/I)

Rec'd : 11/5/10

DS 4485

M-33

November 2010

MARTIN & MARTIN PROJECT NO. 2184

\$400

Prepared for:

HKS ARCHITECTS INC
7115 Amigo St. Suite 100
Contact: Richard Johnston
(702) 221-2163

MARTIN & MARTIN
Civil Engineers

1909 South Jones Boulevard
Las Vegas, Nevada 89146
Phone (702) 248-8000
Fax (702) 248-8070
www.mmcivil.com

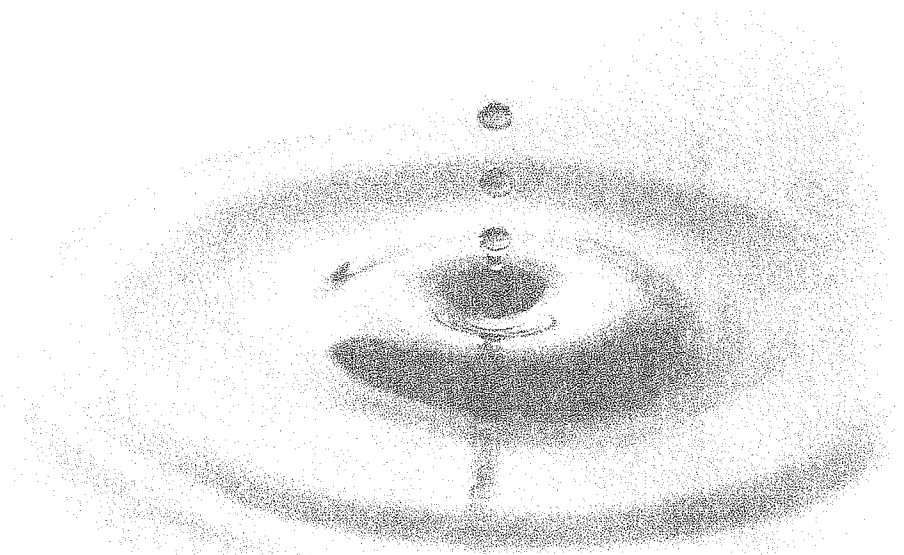


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ADDENDUM #1 RESPONSE LETTER

APPENDIX

HYDROLOGIC CRITERIA AND DRAINAGE DESIGN MANUAL

DRAINAGE STUDY INFORMATION FORM

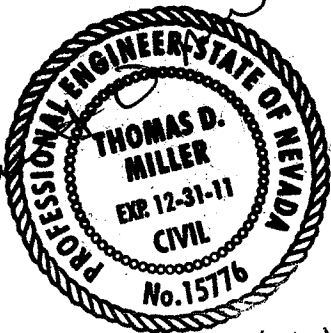
Name of Development: **The Smith Center for the Performing Arts (Parcel H/I)** Date: **11/1/2010**
Location of Development: a) Descriptive (Cross Streets) **Northeast of Bonneville Ave. and Grand Central Pkwy.**
b) Section **34** Township **20 South** Range **61 East**
Name of Owner: **City of Las Vegas** Assessors Parcel Number: **139-33-610-026**
Telephone Number: **(702) 221-2163** Fax Number: **(702) 221-2514**
Address: **7115 Amigo St. Suite 100, Las Vegas, NV 89119**

Contact Person Name: **Thomas D. Miller, PE** Telephone Number: **(702) 835-8713**
Firm: **Martin & Martin Civil Engineers** Fax Number: **(702) 248-8070**
Address: **1909 South Jones Boulevard** Email: **tmiller@mmcivil.com**
Las Vegas, NV 89146

Type of Land Development/Land Disturbance Process:

	Rezoning		Subdivision Map		Clearing and Grading Only
	Parcel Map		Planned Unit Development		Other (Please specify below)
	Large Parcel Map	X	Building Permit		

- Total Owned Land Area: At Site: **± 3.93 Ac** Being Developed: **± 3.93 Ac**
- Is a portion or all of the subject property located in a designated FEMA Flood Hazard Area? YES* **NO**
- Is the property bordered or crossed by an existing or proposed Clark County Regional Flood Control District Master Planned Facility? YES* **NO**
- Proposed type of development (Residential, Commercial, Etc.)? **Parking Garage**
- Approximate upstream land area which drains to the subject site? **N/A**
- Has the site drainage been evaluated in the past? **YES** **NO**
If yes, please identify documentation: **Technical Drainage Study for Union Park by Kimley-Horn**
- If known, please briefly identify the proposed discharge point(s) of runoff from the site:
All flow is discharged to the adjacent storm drain as required
- Briefly describe your proposed schedule for the subject project: **ASAP**



Engineer's Seal

Submit this form as part of the required drainage study to the local entity which has jurisdiction over the subject property. This form may provide sufficient information to serve as the Conceptual Drainage Study.

* Review and concurrence of the Clark County Regional Flood Control District is Required.

Local Entity File No.

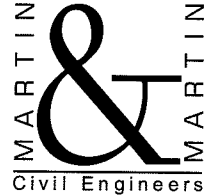
Revision

Date

REFERENCE: M&M Project No. 2184

STANDARD FORM 1

November 01, 2010



City of Las Vegas
Department of Public Works
Flood Control
731 S. 4th Street
Las Vegas, Nevada 89101

**Re: Addendum #1 to Update #4 of the Technical Drainage Study
Discovery Children's Museum at the Smith Center for the Performing Arts
DS # DS4435
Martin & Martin Project # 2184**

This letter is to address the review comments provided by your letter dated October 12, 2010, and to serve as Addendum #1 to Update #4 of the Technical Drainage Study for the Smith Center for the Performing Arts project. The layout and entrance of the parking structure has been modified per the Symphony Park design Review Committee comments conducted on October 8, 2010. Please see revised plans presented as follows also incorporating the following changes.

The comments are addressed individually as follows:

Comment 1 Provide a copy of the zoning/planning conditions associated with this site with the next submittal to verify compliance with conditions. *Flood Control* will not issue conditional approval of the drainage study without the associated zoning/planning conditions (issued by the *City Council*). Any associated conditions of approval that revise the site drainage parameters will require that the drainage study be revised and resubmitted.

Response 1 **Noted. The site is currently under review by the Design Review Committee. Addendum #2 will be submitted with the approved planning/zoning conditions when they are made available by the City clerks office at the end of January 2011.**

Comment 2 Sections A/C8.01, B/C8.01 and C/C8.01 are provided in the last submittal to identify building walls in the north, west and south sides of the parking garage. However, no section at the east side has been provided. It appears that the east side of the parking garage is open for traffic. However, provide a section to prove as such.

Response 2 **Noted. The cross section (F/C8.01) for the east side of the parking garage has been added for clarification.**

Comment 3 Provide a plumbing plan for roof drain connection to existing storm drain system or show the roof drains on the grading plan.

Response 3 **Noted. The location of the proposed roof drain connection to the existing storm drain has been added to the grading plan.**

Comment 4 With reference to an existing 4'x4' area drain to the east of the proposed parking garage, the top of grate (TG) elevation is 35.35 and it is in a sump condition. The nearest overflow point appears to be an existing driveway to the south of the area drain. The high point in the driveway is at 37.62FG. Therefore, if the area drain is completely clogged, the potential ponding depth is $37.62 - 35.35 = 2.27'$. Revise grading of the local area to minimize the ponding depth to 1' maximum during the worst case scenario.

Response 4 **Noted. As shown on the grading plan there are (2) 4'x4' area drains with grate elevations of 35.35 and 36.20. Therefore if the area drain with the lower grate elevation were completely clogged the potential ponding depth is $36.20 - 35.35 = 0.85'$ which is less than the maximum of 1' ponding depth.**

We hope all your concerns have been addressed. If you have any comments or questions, please contact our office at your convenience.

Sincerely,



Tom Miller, P.E.

Martin & Martin Civil Engineers

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APPENDIX

- Original Comment Letter (Attached)
- Previously Submitted Drainage Figure 6 (Attached)
- Revised Drainage Figure 6 (Attached)
- Revised Grading & Detail Sheets (Attached)

Original Comment Letter (Attached)

CITY OF LAS VEGAS		DATE:
INTER-OFFICE MEMORANDUM		October 12, 2010
TO: Land Development Services Department of Public Works		FROM: Albert Sung, P.E. Flood Control Project Engineer Department of Public Works
SUBJECT:	COPIES TO:	
Drainage Study for:	Martin & Martin Civil Engineers, Inc.	
Parking Garage at Smith Center for the Performing Arts (Union Park Parcel H/I)		
Cross Streets:	NEC of West Clark Ave. & Promenade Way	City Parkway V, Inc.
File Number:	F:\Depot\DSMemos\DS4485A.doc	Bart Anderson, P.E., DevCo
Parcel Number:	139-33-610-026	
Zoning Action:		
FEMA Flood Zone	YES	NO X
Proposed Storm Drain	YES	NO X

HISTORY	DATE RECEIVED	DATE REVIEWED	COMMENTS	REVIEW FEES	FEES PAID Transaction #
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	is conditionally approved subject to Clark County Department of Development Services concurrence.

1. Provide a copy of the zoning/planning conditions associated with this site with the next submittal to verify compliance with conditions. *Flood Control* will not issue conditional approval of the drainage study without the associated zoning/planning conditions (issued by the *City Council*). Any associated conditions of approval that revise the site drainage parameters will require that the drainage study be revised and resubmitted.
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END OF REMARKS
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T/R/S: T20S/R61E/33
AREA M-33

Post-It® Fax Note	7671	Date	10/12/10	# of pages	2
To	Tom Miller	From	Albert Sung		
Co./Dept.	M & M	Co.	CLW		
Phone #		Phone #	229-2001		
Fax #	248-8070	Fax #			

Previously Submitted Drainage Figure 6 (Attached)