CITY OF ALBUQUERQUE

December 21, 2009

John D. Hafner, Register Architect
Cities Edge Architects
103 Fifteenth Ave. NW
Willmar, MN 56201-2242

Re: Radisson Indoor Water Park
2500 Carlisle Blvd NE
Permanent Certificate of Occupancy – Transportation Development
Architect's Stamp dated 12-17-09 (H-17/D002)

Dear Mr. Hafner,

Based upon the information provided in your submittal received 12-16-09, Transportation Development has no objection to the issuance of a Permanent Certificate of Occupancy (C.O.).

This letter serves as a "green tag" from Transportation Development for a Permanent Certificate of Occupancy to be issued by the Building and Safety Division.

If you have any questions, you can contact me at 924-3630.

Sincerely,

Nilo Salgado-Fernandez, P.E.
Senior Traffic Engineer, Planning Dept.
Development and Building Services

C: CO Clerk
File

PO Box 1293
Albuquerque
NM 87103
www.cabq.gov

CITIES **EDGE** ARCHITECTS

103 Fifteenth Ave NW
Willmar, MN 56201-2242

Tel 320-235 7775
Fax 320-235-8673
www CitiesEdgeArchitects com

TRAFFIC CERTIFICATION

I, John D. Hafner, NMRA, of the firm Cities Edge Architects, hereby certify that this project is in substantial compliance with and in accordance with the design intent of the AA approved plan dated 9/11/2007. The record information edited onto the original design document has been obtained by Paul Reeb of the firm Cities Edge Architects. I further certify that I have personally visited the project site and have determined by visual inspection that the survey data provided is representative of actual site conditions and is true and correct to the best of my knowledge and belief. This certification is submitted in support of a request for Certificate of Occupancy.

Signature

John D. Hafner
Printed Name

12/17/2009
Date

STATE OF NEW MEXICO
JOHN D. HAFNER
NO. 004003
REGISTERED ARCHITECT

RECEIVED
DEC 16 2009
HYDROLOGY SECTION

DRAINAGE AND TRANSPORTATION INFORMATION SHEET
(REV 12/2005)

PROJECT TITLE: Radisson Indoor Water Park ZONE MAP: H17/D002
DRB#: _____ EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: _____
CITY ADDRESS: 2500 CARUSCE BLVD. NE

ENGINEERING FIRM: MILLER ENGINEERING CONSULT. CONTACT: VERLYN MILLER
ADDRESS: 95 HWY 344, SUITE 2 PHONE: 505-888-7500
CITY, STATE: EDGEWOOD, NM ZIP CODE: 87015

OWNER: ALAM CARUSCE, LLC CONTACT: _____
ADDRESS: 8910 UNIVERSITY CENTER LANE, STE 500 PHONE: 858-964-5500
CITY, STATE: SAN DIEGO, CA ZIP CODE: 92122

ARCHITECT: CITIES EDGE ARCHITECTS CONTACT: JOAN HAFNER
ADDRESS: 103 15TH AVE NW PHONE: 320-235-7775
CITY, STATE: WILLMAR, MN ZIP CODE: 56201

SURVEYOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

CONTRACTOR: SERRANO & SONS, LLC CONTACT: DAN SERRANO
ADDRESS: 3305 RONDA DE LECHUSAS NW PHONE: 505-249-7994
CITY, STATE: ABQ, NM ZIP CODE: 87120

TYPE OF SUBMITTAL:
- _____ DRAINAGE REPORT
- _____ DRAINAGE PLAN 1st SUBMITTAL
- _____ DRAINAGE PLAN RESUBMITTAL
- _____ CONCEPTUAL G & D PLAN
- _____ GRADING PLAN
- _____ EROSION CONTROL PLAN
- _____ ENGINEER'S CERT (HYDROLOGY)
- _____ CLOMR/LOMR
- _____ TRAFFIC CIRCULATION LAYOUT
- _____ ENGINEER'S CERT (TCL)
- X ENGINEER'S CERT (DRB SITE PLAN)
- _____ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL SOUGHT:
- _____ SIA/FINANCIAL GUARANTEE RELEASE
- _____ PRELIMINARY PLAT APPROVAL
- _____ S. DEV. PLAN FOR SUB'D APPROVAL
- _____ S. DEV. FOR BLDG. PERMIT APPROVAL
- _____ SECTOR PLAN APPROVAL
- _____ FINAL PLAT APPROVAL
- _____ FOUNDATION PERMIT APPROVAL
- _____ BUILDING PERMIT APPROVAL
- X CERTIFICATE OF OCCUPANCY (PERM)
- _____ CERTIFICATE OF OCCUPANCY (TEMP)
- _____ GRADING PERMIT APPROVAL
- _____ PAVING PERMIT APPROVAL
- _____ WORK ORDER APPROVAL
- _____ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED:
- _____ YES
- _____ NO
- _____ COPY PROVIDED

DATE SUBMITTED: _____

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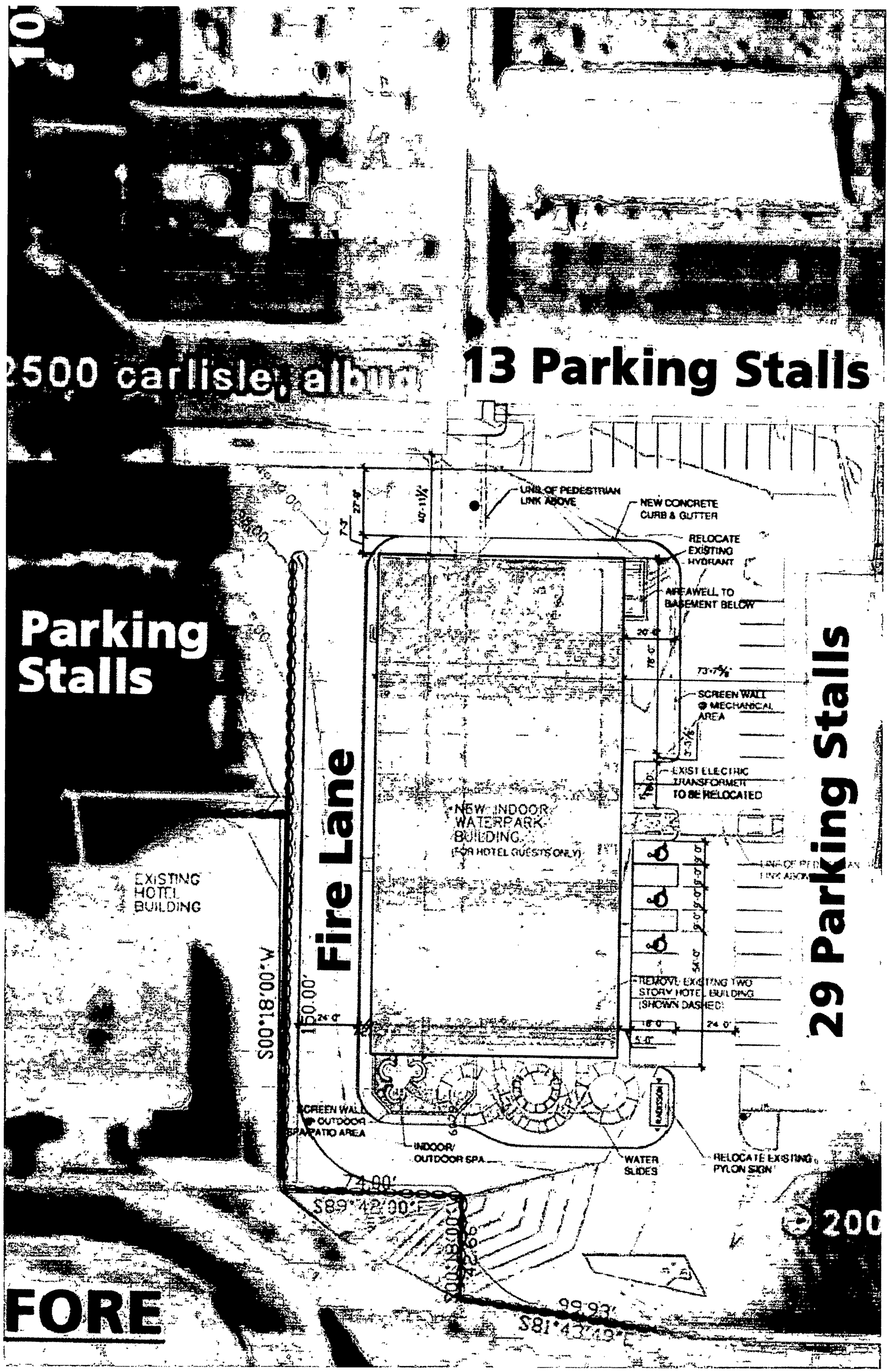
DEC 18 2009
HYDROLOGY SECTION

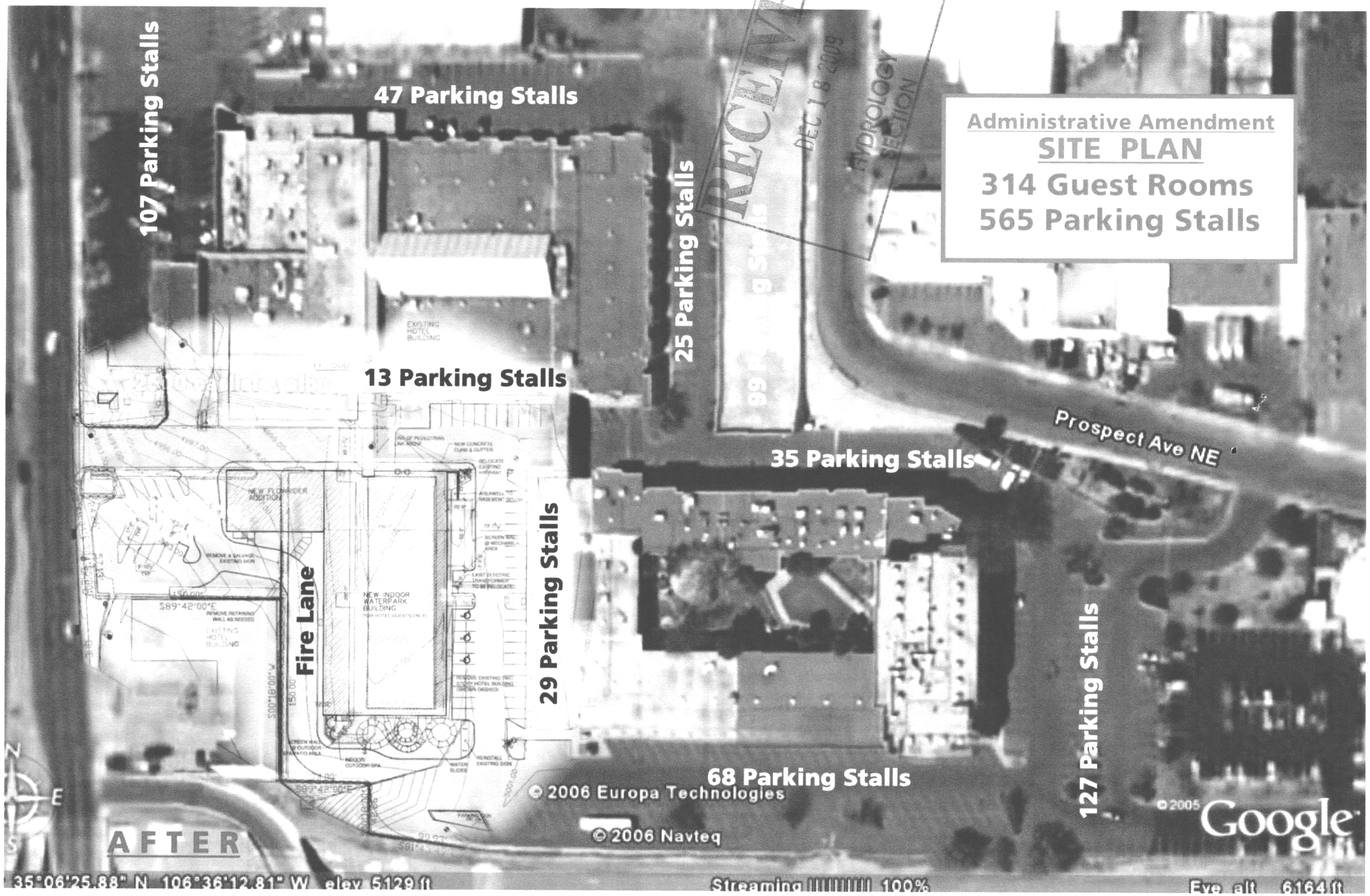
RECEIVED
DEC 1X 2009
HYDROLOGY SECTION
BY: _____

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

1. **Conceptual Grading and Drainage Plan**: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
3. **Drainage Report**: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more.

check w/
Sawley
on No!
AA


2500 carlisle, albu
13 Parking Stalls
Parking Stalls
29 Parking Stalls
FORE
Fire Lane
EXISTING HOTEL BUILDING
NEW INDOOR WATERPARK BUILDING (FOR HOTEL GUESTS ONLY)
LINE OF PEDESTRIAN LINK ABOVE
NEW CONCRETE CURB & GUTTER
RELOCATE EXISTING HYDRANT
AREAWELL TO BASEMENT BELOW
SCREEN WALL @ MECHANICAL AREA
EXIST ELECTRIC TRANSFORMER TO BE RELOCATED
REMOVE EXISTING TWO STORY HOTEL BUILDING (SHOWN DASHED)
SCREEN WALL @ OUTDOOR SPA/PATIO AREA
INDOOR/ OUTDOOR SPA
WATER SLIDES
RELOCATE EXISTING PYLON SIGN
S00°18'00"W
150.00'
S89°42'00"E
74.00'
S81°43'49"E
99.93'
200


Administrative Amendment
SITE PLAN
314 Guest Rooms
565 Parking Stalls
107 Parking Stalls
47 Parking Stalls
25 Parking Stalls
13 Parking Stalls
35 Parking Stalls
29 Parking Stalls
68 Parking Stalls
127 Parking Stalls
Fire Lane
Prospect Ave NE
NEW INDOOR WATERPARK BUILDING
EXISTING HOTEL BUILDING
NEW FLOWRIDER ADDITION
AFTER
© 2006 Europa Technologies
© 2006 Navteq
©2005 Google
RECEIVED
DEC 18 2009
HYDROLOGY SECTION

CITY OF ALBUQUERQUE

September 22, 2009

Verlyn A. Miller, P.E.
Miller Engineering Consultants
3500 Comanche, NE- Bldg. F
Albuquerque, NM 87107

Re: Radisson Indoor Water Park, 2500 Carlisle Blvd. NE,
Approval of Permanent Certificate of Occupancy (C.O.)
Engineer's Stamp dated 01/31/07 (H-17/D002)
Certification dated 7-24-09

Dear Mr. Miller,

Based upon the information provided in your submittal received 09-21-09, the above referenced certification is approved for release of Permanent Certificate of Occupancy by Hydrology.

If you have any questions, you can contact me at 924-3982.

Sincerely,

Timothy E. Sims
Plan Checker—Hydrology,
Development and Building Services

C: CO Clerk—Katrina Sigala
File

PO Box 1293
Albuquerque
NM 87103
www.cabq.gov

DRAINAGE AND TRANSPORTATION INFORMATION SHEET
(REV 04/2009)

H-17/D002

PROJECT TITLE: RADISSON INDOOR WATER PARK ZONE MAP: H-17-Z
DRB#: _____ EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: SW CORNER, LOT 3, CARLISLE REPLAT.
CITY ADDRESS: 2500 CARLISLE BLVD. NE ALBUQUERQUE, NM 87110

ENGINEERING FIRM: MILLER ENGINEERING CONSULTANTS
ADDRESS: 3500 COMANCHE NE BLDG F
CITY, STATE: ALBUQUERQUE, NM
CONTACT: VERLYN MILLER
PHONE: 505-888-7500
ZIP CODE: 87107

OWNER: CARLISLE HOTEL AND CONFERENCE CENTER
ADDRESS: 2500 CARLISLE BLVD. NE
CITY, STATE: ALBUQUERQUE, NM
CONTACT: GUY O'NAN
PHONE:
ZIP CODE: 87110

ARCHITECT: CITIES EDGE ARCHITECTS
ADDRESS: 103 15TH AVE NW.
CITY, STATE: WILMAR, MN
CONTACT: PAUL REEB
PHONE: 320-235-7775
ZIP CODE: 56201

SURVEYOR:
ADDRESS:
CITY, STATE:
CONTACT:
PHONE:
ZIP CODE:

CONTRACTOR: TC ENTERPRISES
ADDRESS: 248 MURIEL ST
CITY, STATE: ALBUQUERQUE, NM
CONTACT: DOUG PEEL
PHONE: 505-883-8233
ZIP CODE: 87123

TYPE OF SUBMITTAL:
_____ DRAINAGE REPORT
_____ DRAINAGE PLAN 1st SUBMITTAL
_____ DRAINAGE PLAN RESUBMITTAL
_____ CONCEPTUAL G & D PLAN
_____ GRADING PLAN
_____ EROSION CONTROL PLAN
__X__ ENGINEER'S CERT (HYDROLOGY)
_____ CLOMR/LOMR
_____ TRAFFIC CIRCULATION LAYOUT
_____ ENGINEER'S CERT (TCL)
_____ ENGINEER'S CERT (DRB SITE PLAN)
_____ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL SOUGHT:
_____ SIA/FINANCIAL GUARANTEE RELEASE
_____ PRELIMINARY PLAT APPROVAL
_____ S. DEV. PLAN FOR SUB'D APPROVAL
_____ S. DEV. FOR BLDG. PERMIT APPROVAL
_____ SECTOR PLAN APPROVAL
_____ FINAL PLAT APPROVAL
_____ FOUNDATION PERMIT APPROVAL
_____ BUILDING PERMIT APPROVAL
__X__ CERTIFICATE OF OCCUPANCY (PERM)
_____ CERTIFICATE OF OCCUPANCY (TEMP)
_____ GRADING PERMIT APPROVAL
_____ PAVING PERMIT APPROVAL
_____ WORK ORDER APPROVAL
_____ GRADING CERTIFICATION
_____ OTHER (SPECIFY) SO-19

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SEP 21 2009
HYDROLOGY SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED:
__x__ YES
_____ NO
_____ COPY PROVIDED

DATE SUBMITTED: September 21, 2009 BY: _____

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

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2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
3. **Drainage Report**: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more.

Cherne, Curtis

To: Verlyn Miller

Subject: RE: Radison Flow Rider Addition

Verlyn,
Hydrology approves the design change as shown in the attached file. Show the changes on your Certification.

Curtis Cherne, P.E.
Senior Engineer
Development and Building Services
Planning Department, COA
924-3695

From: Verlyn Miller [mailto:vmiller@mecnm.com]
Sent: Tuesday, July 07, 2009 11:47 AM
To: Cherne, Curtis
Cc: 'Paul Reeb'; jasonsmith@alvarezandmarsal.com; 'John Jacquez'
Subject: Radison Flow Rider Addition

Hi Curtis,

As per our conversation yesterday, attached is a stamped sketch of the design that we discussed. We have talked with the owner, architect and contractor and all have agreed that this design (going around the triangular property in question) will be the best course of action at this time.

Please review the attached sketch and provide us with a response approving our design as soon as possible. As we discussed, this approval will come in handy once we are required to certify the as-built upon completion of the project.

Your timely response is appreciated since this project is nearing completion of construction. If you have any questions, please feel free to contact me at 505-401-2111 as I will be out of the office this afternoon.

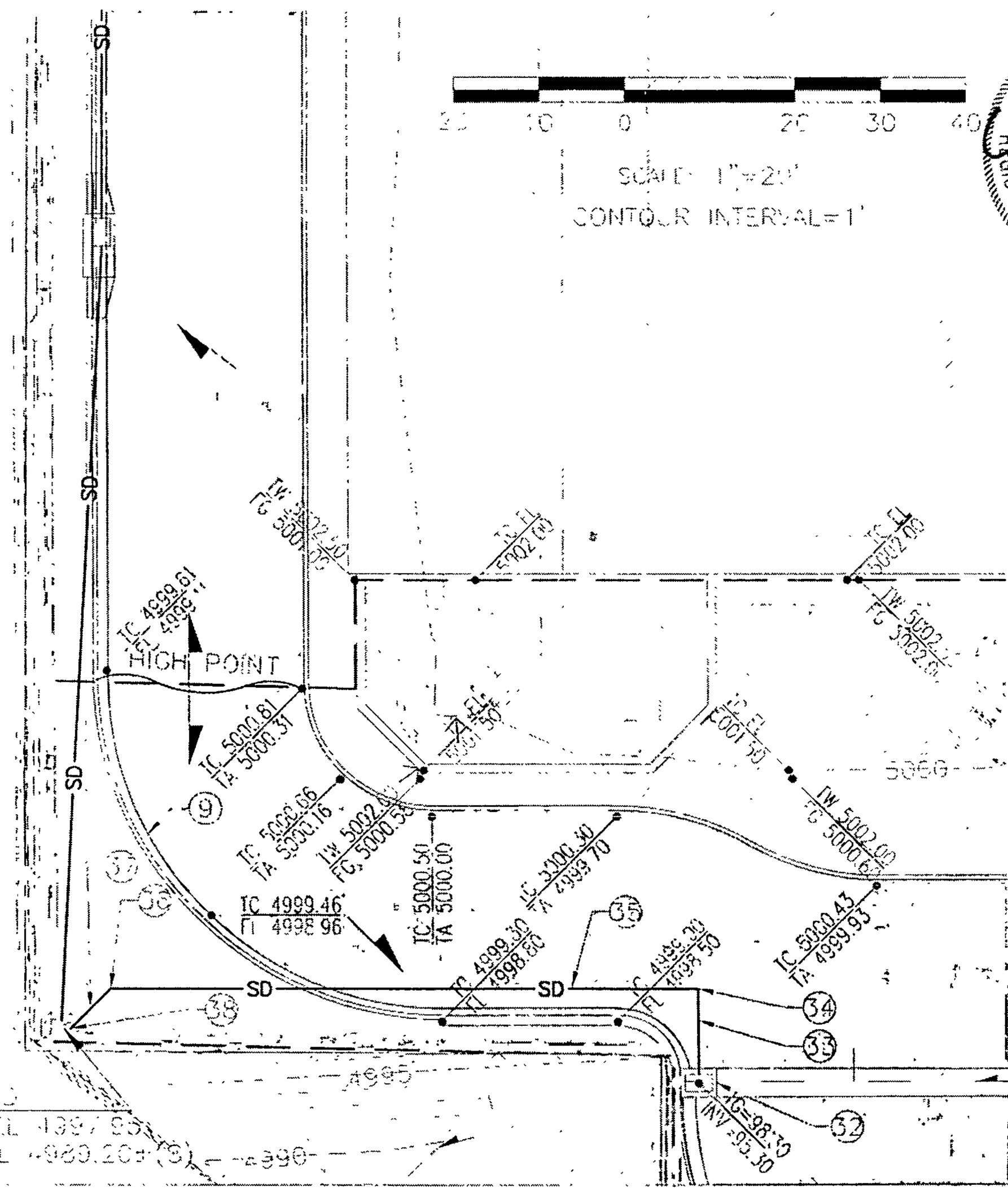
Thanks, Verlyn Miller

Miller Engineering Consultants, Inc.
3500 Comanche, NE
Building F
Albuquerque, NM 87107
Phone (505) 888-7500
Fax (505) 888-3800

From: Jana Miller [mailto:jmiller@mecnm.com]
Sent: Tuesday, July 07, 2009 10:50 AM
To: 'Verlyn Miller'
Subject:

Jana Miller

MILLER ENGINEERING CONSULTANTS, INC
3500 Comanche NE, Bldg. F
Albuquerque, NM 87107
Phone: 505-888-7500
Fax: 505-888-3800



KEYED NOTES–REV.

32 BUILD NEW SINGLE [illegible] DROP INLET TOG=98.3, INV=95.3, N=10034.49, E=9939.76

33 NEW 10' LF 12"Ø [illegible] SD PIPE, S=1% MIN.

34 NEW 12"x12"x90° BEND INV=9[illegible] N=10045.[illegible] E=9969.[illegible]

35 NEW 60' LF 12"Ø HDPE SD PIPE, S=1% MIN

36 NEW 1 [illegible] 12"x45° BEND INV=9[illegible], N=10[illegible].30, E=9871.30

37 NEW [illegible] LF 12"Ø HDPE SD PIPE S=1% MIN

38 TIE NEW 12"Ø PIPE TO EXISTING DROP INLET (BASE WALL), INV=[illegible], N=10040.38, E=9860.59

NOTES: ALL HDPE SD PIPE SHALL HAVE WATER TIGHT JOINTS.

CONTRACTOR SHALL FIELD VERIFY EX DROP INLET PENETRATION WITH NEW 12"Ø HDPE PIPE. CONSTRUCTABILITY PRIOR TO CONSTRUCTION.

MILLER ENGINEERING CONSULTANTS
Engineers • Planners

SKA #1

RADISSON INDOOR WATER PARK
STORM DRAIN REVISION

CITY OF ALBUQUERQUE

February 6, 2007

Verlyn A. Miller, P.E.
Miller Engineering Consultants
3500 Comanche NE, Bldg. F
Albuquerque, NM 87107

Re: Radison Indoor Water Park with Flowrider, Engineer's Stamp dated 1-31-07
2500 Carlisle NE Grading and Drainage Plan (H17/D2)

Dear Mr. Miller,

Based upon the information provided in your submittal received on January 31, 2007, the above referenced plan is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

This project will also require a National Pollutant Discharge Elimination System (NPDES) permit. Inquiries regarding this permit should be directed to Sertil Kandar at 768-3645.

If you have any questions or need additional information, feel free to contact me at 924-3990.

Sincerely,

Jeremy Hoover, P.E.
Senior Engineer
Hydrology Section
Development and Building Services

cc: file H17/D2

P.O. Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

MILLER ENGINEERING CONSULTANTS
Engineers • Planners

January 31, 2007

Mr. Jeremy Hoover, P.E.
Senior Engineer
City of Albuquerque, Hydrology Section
P.O. Box 1293
Albuquerque, NM 87103

RE: Radisson Indoor Water Park (Flow Rider Addition), 2500 Carlisle Blvd NE, Grading and Drainage Plan (H17/D2)

Dear Mr. Hoover:

This letter is in response to your letter dated November 13, 2006. For simplification the comments have been addressed in the same order as your letter, as shown below:

1. The panel # of the FIRM map and the legal description for the project site has been provided and is shown on sheet C-101.
2. Keyed note 19 has been revised on sheet C-100 and a wall cross section (section A-A) has been provided on sheet C-101.
3. Keyed note 29 has been added as shown on sheet C-100 to identify the permanent bench mark used for this project.
4. As provided by the project architect the roof drainage will be split at the approximate location as shown on sheet C-100.
5. The 18-inch storm drain pipe has a 1.0% slope and the invert elevation called out on keyed note 25 is correct. The slope of the 15-inch pipe was mislabeled and has been corrected to the actual slope of 2.7%.

Thank you for your timely review, and please feel free to contact our office if you have any questions or require additional information.

Sincerely,

MILLER ENGINEERING CONSULTANTS, INC.

Ryan D. Gomez
Project Manager
Enclosure

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JAN 3 1 2007
HYDROLOGY SECTION

3500 Comanche, NE., Building F• Albuquerque, New Mexico 87107
Phone (505) 888-7500 • Fax (505) 888-3800 • E-mail: rgomez@mecnm.com

CITY OF ALBUQUERQUE

November 13, 2006

Verlyn A. Miller, P.E.
Miller Engineering Consultants
95 Highway 244 North
Edgewood, NM 87015

Re: Radison Indoor Water Park with Flowrider, Engineer's Stamp dated 10-31-06
2500 Carlisle NE Grading and Drainage Plan (H17/D2)

Dear Mr. Miller,

Based on the information contained in your submittal received on October 31, 2006, there are some issues that must be addressed prior to Building Permit approval. Those items are detailed below.

1. Please cite the applicable FIRM map for your project location. Also include the proper legal description on the plan
2. Please revise keyed note 19 to reference a concrete V-ditch, not rip-rap. Also include a wall cross-section on the detail sheet.
3. Please revise the narrative to reference the permanent benchmark along with the elevation and datum type utilized to determine the TBM information and project grades.
4. Why is the northwestern portion of the new structure shown as being in both basins A2 and C? Will the building rooftop drain to separate locations or tie directly to the new, onsite storm drain system?
5. With the 1.0% slopes you call out, there is an approximately 1.4-foot bust in elevation at the confluence (wye) of the 15-inch and 18-inch pipes.

If you have any questions or need additional information, feel free to contact me at 924-3990.

Sincerely,

Jeremy Hoover, P.E.
Senior Engineer
Hydrology Section
Development and Building Services

cc: file H17/D2

P.O. Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

CITY OF ALBUQUERQUE

July 7, 2006

Verlyn Miller II, P.E.
Miller Engineering Consultants
95 Hwy 344 N
Edgewood, NM 87015

Re: Radisson Indoor Water Park, 2500 Carlisle Blvd NE, Grading and Drainage Plan
Engineer's Stamp dated 6-01-06 (H17-D2)

Dear Mr. Miller,

Based upon the information provided in your submittal received 6-02-06, the above referenced plan is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

This project requires a National Pollutant Discharge Elimination System (NPDES) permit. If you have any questions regarding this permit please feel free to call the DMD Storm Drainage Design section at 768-3654 (Charles Caruso).

If you have any questions, you can contact me at 924-3981.

Sincerely,

Kristal D. Metro, P.E.
Senior Engineer, Planning Dept.
Development and Building Services

C: Charles Caruso, DMD Storm Drainage Design
File

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

CITY OF ALBUQUERQUE

May 19, 2006

Verlyn Miller II, P.E.
Miller Engineering Consultants
95 Hwy 344 N
Edgewood, NM 87015

Re: Radisson Indoor Water Park, 2500 Carlisle Blvd NE, Grading and Drainage Plan
Engineer's Stamp dated 5-09-06 (H17-D2)

Dear Mr. Miller,

Based upon the information provided in your submittal received 5-12-06, the above referenced plan cannot be approved for Building Permit until the following comments are addressed:

1. Please clarify the extents of the existing and proposed building.
2. The outfall to the Embudo Channel must be hardlined.
3. Please provide calculations, using the current City of Albuquerque Hydrology calculation standards, determining the existing and proposed flow to the existing inlets and the capacity of the existing inlets.

If you have any questions, you can contact me at 924-3981.

Sincerely,

Kristal D. Metro, P.E.
Senior Engineer, Planning Dept.
Development and Building Services

C: File

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

CITY OF ALBUQUERQUE

April 14, 2006

Verlyn Miller II, P.E.
Miller Engineering Consultants
95 Hwy 344 N
Edgewood, NM 87015

Re: Radisson Indoor Water Park, 2500 Carlisle Blvd NE, Grading and Drainage Plan

Engineer's Stamp dated 3-13-06 (H17-D2)

Dear Mr. Miller,

Based upon the information provided in your submittal received 3-13-06, the above referenced plan cannot be approved for Building Permit until the following comments are addressed:

1. Per the *Development Process Manual*, Chapter 27, Section 1, "Standard sheets must be 24" by 36" having a margin of 2" along the left and 1" on the top and bottom. Use of non-standard sheets must have prior approval of the City Engineer or City Architect in writing."
2. Define the drainage destination. Where does the flow go once it leaves the site?
3. Provide a Flood Insurance Rate Map (FIRM) on the plan.
4. List the legal description and benchmark on the plan.
5. Define all existing and proposed easements, pipes, etc.
6. Clearly define the current status of the site. Existing contours or spot elevations must be shown and labeled.
7. The 18" pipe from the single 'C' inlet (note 16) to the double 'D' inlet (note 15) is not shown on the plan. Please correct this.
8. Identify all existing and proposed drainage facilities located on-site or on adjacent property.
9. More proposed contours and/or spot elevations must be provided to make this project buildable.

If you have any questions, you can contact me at 924-3981.

Sincerely,

Kristal D. Metro, P.E.
Senior Engineer, Planning Dept.
Development and Building Services

C: File

P.O. Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

HYDROLOGIC & HYDRAULIC SUPPLEMENTAL DOCUMENTS

CITIES **EDGE** ARCHITECTS

103 Fifteenth Ave NW
Willmar, MN 56201

Tel: 320-235-7775
Fax: 320-235-8673

www.
CitiesEdgeArchitects.com

RADISSON INDOOR WATERPARK
2500 Carlisle NE
Albuquerque, NM 87110

VERLYN A. MILLER II
NEW MEXICO
14507
3/13/06
REGISTERED PROFESSIONAL ENGINEER

MILLER ENGINEERING CONSULTANTS
Engineers • Planners

P.O. Box 520. • 95 SR 344 N. Ste. 2 • Edgewood, New Mexico 87015 • Phone (505) 286-7771 • Fax (505) 286-9026

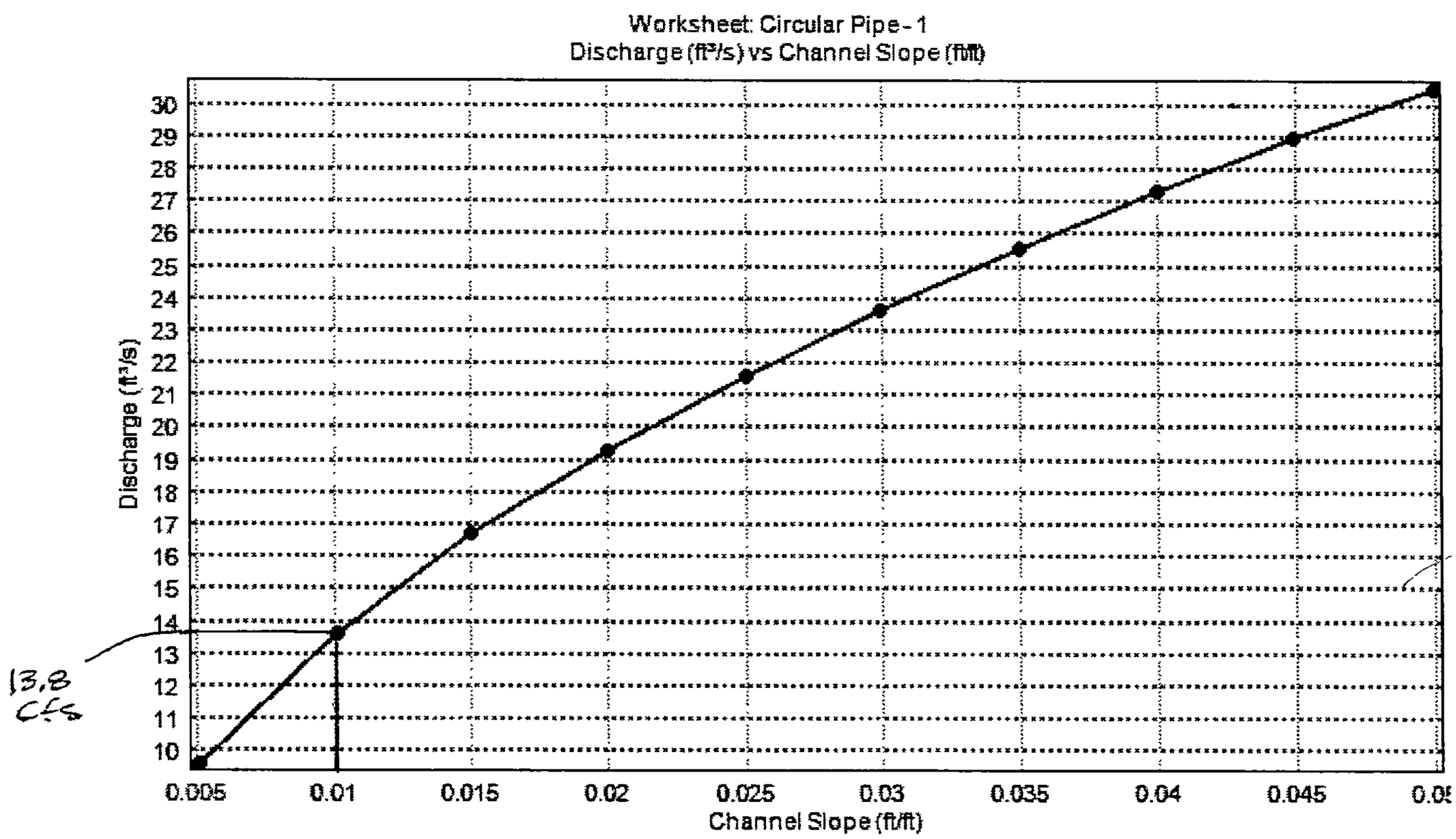
RECEIVED
MAR 13 2006
HYDROLOGY SECTION

Rating Curve for Circular Pipe - 1

Project Description		
Flow Element:	Circular Pipe	
Friction Method:	Manning Formula	
Solve For:	Discharge	

Input Data		
Roughness Coefficient:	0.010	
Normal Depth:	1.50	ft
Diameter:	1.50	ft

Attribute	Minimum	Maximum	Increment
Channel Slope (ft/ft)	0.00500	0.05000	0.00500



THEREFORE 18" SD PIPE ADEQUATE FOR HOLDING BASIN A1 & BASIN A2. RUNOFF.

Worksheet for Circular Pipe - 1

Project Description		
Flow Element:	Circular Pipe	
Friction Method:	Manning Formula	
Solve For:	Discharge	

Input Data		
Roughness Coefficient:	0.010	
Channel Slope:	0.01000	ft/ft
Normal Depth:	1.50	ft
Diameter:	1.50	ft

Results		
Discharge:	13.65	ft^3/s
Flow Area:	1.77	ft^2
Wetted Perimeter:	4.71	ft
Top Width:	0.00	ft
Critical Depth:	1.37	ft
Percent Full:	100.0	%
Critical Slope:	0.00871	ft/ft
Velocity:	7.73	ft/s
Velocity Head:	0.93	ft
Specific Energy:	2.43	ft
Froude Number:	0.00	
Maximum Discharge:	14.69	ft^3/s
Discharge Full:	13.65	ft^3/s
Slope Full:	0.01000	ft/ft
Flow Type:	SubCritical	

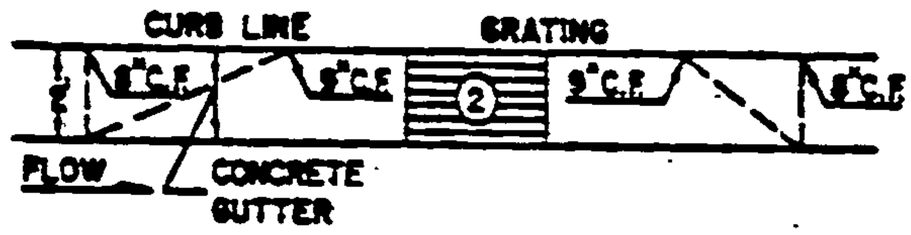
GVF Input Data		
Downstream Depth:	0.00	ft
Length:	0.00	ft
Number Of Steps:	0	

GVF Output Data		
Upstream Depth:	0.00	ft
Profile Description:	N/A	
Profile Headloss:	0.00	ft
Average End Depth Over Rise:	0.00	%
Normal Depth Over Rise:	0.00	%
Downstream Velocity:	0.00	ft/s

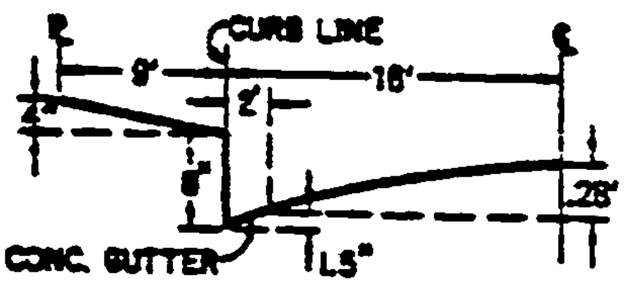
Worksheet for Circular Pipe - 1

Upstream Velocity:	0.00	ft/s
Normal Depth:	1.50	ft
Critical Depth:	1.37	ft
Channel Slope:	0.01000	ft/ft
Critical Slope:	0.00871	ft/ft

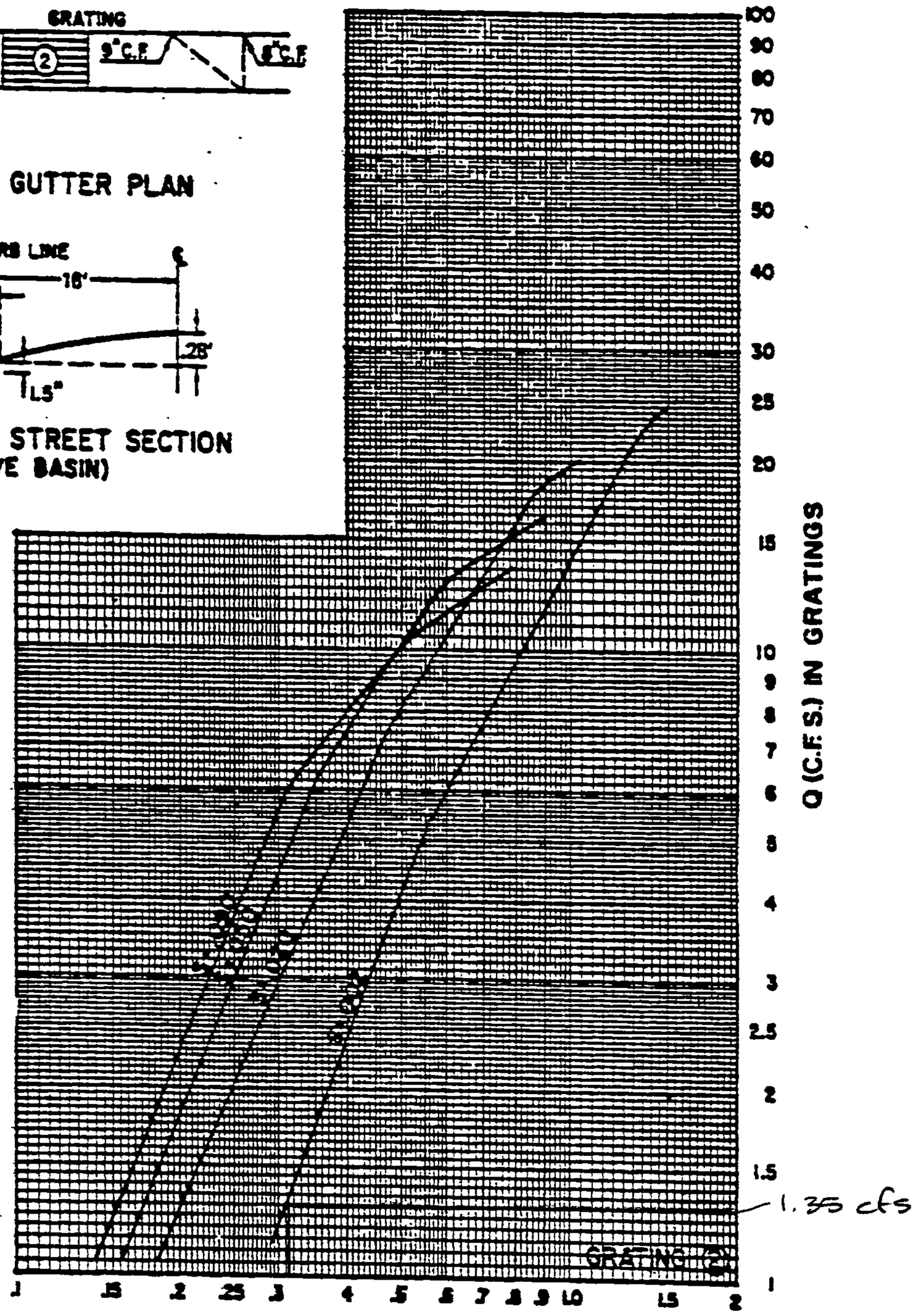
GRATING CAPACITIES FOR TYPE "A", "C" and "D"



GRATING & GUTTER PLAN



TYPICAL HALF STREET SECTION
(ABOVE BASIN)

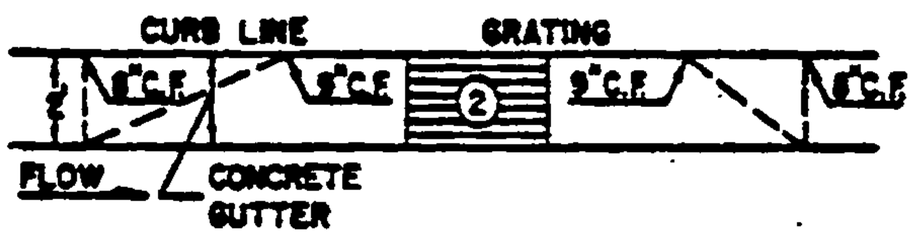


D1 (A1)

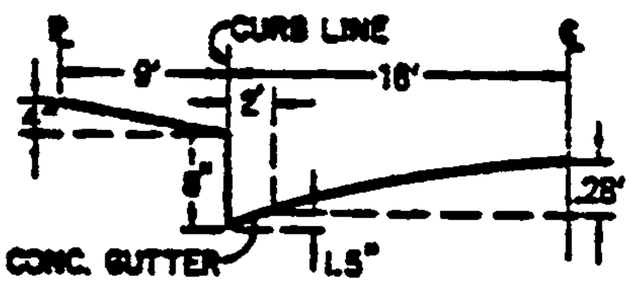
DROP INLET @ NW CORNER PROPERTY CAN HANDLE BASIN A1.

PLATE 22.3 D-5

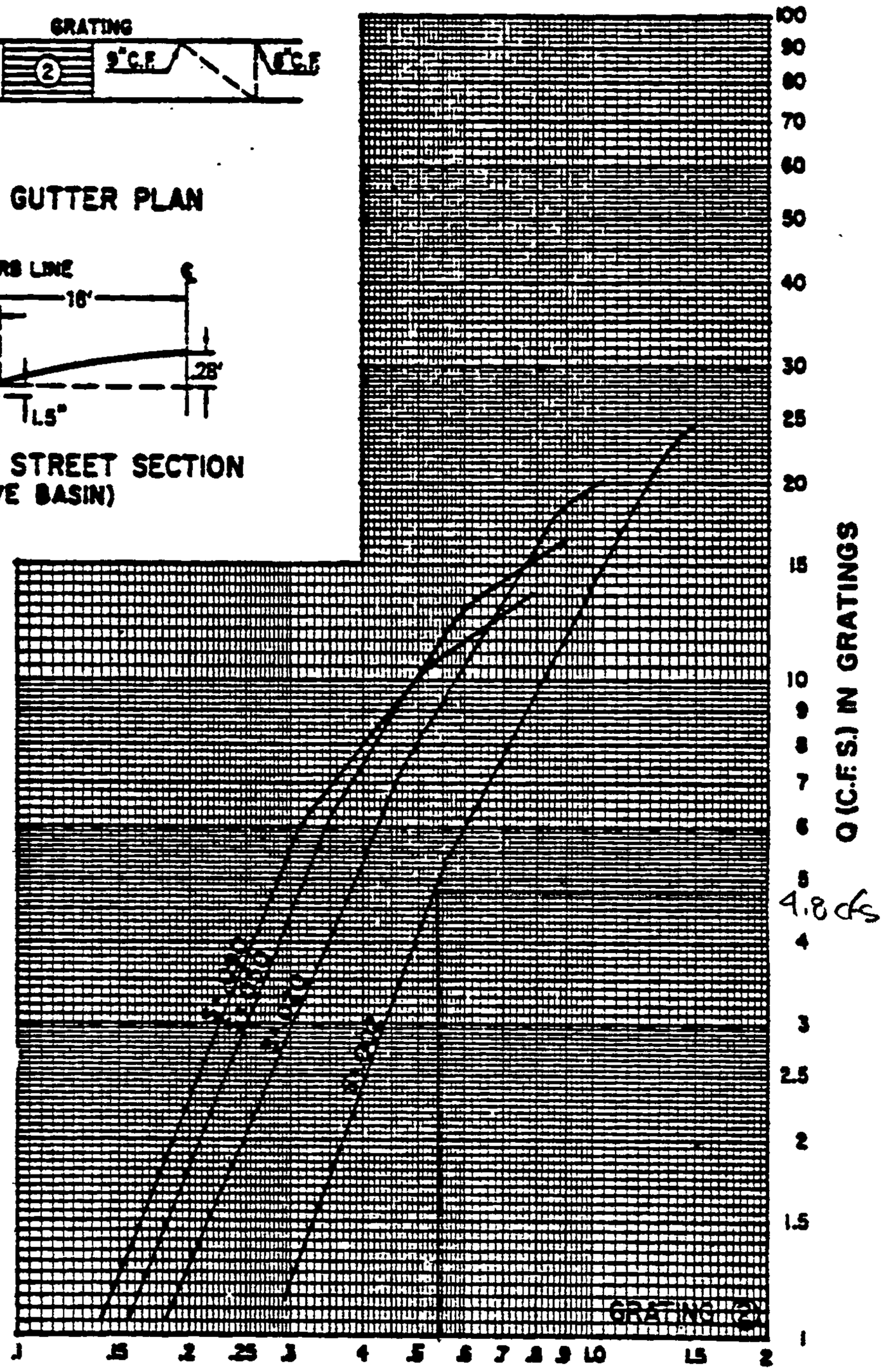
GRATING CAPACITIES FOR TYPE 'A', 'C' and 'D'



GRATING & GUTTER PLAN



TYPICAL HALF STREET SECTION
(ABOVE BASIN)



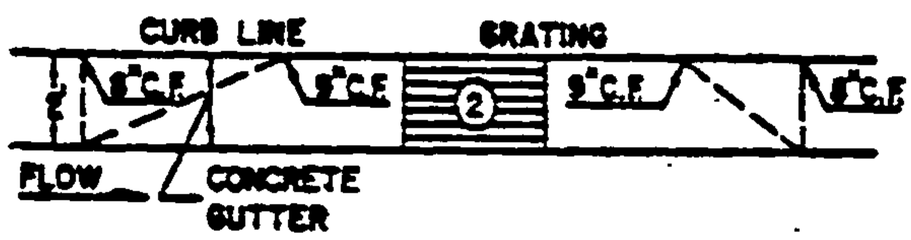
D=DEPTH OF FLOW (FT.) ABOVE NORMAL GUTTER GRADE

D1(A2)

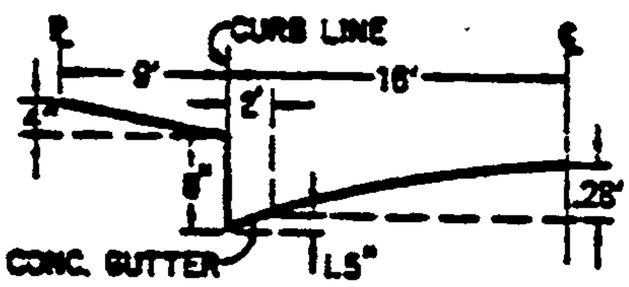
DROP INLET ALONG WEST CURB & GUTTER CAN HANDLE BASIN A2

PLATE 22.3 D-5

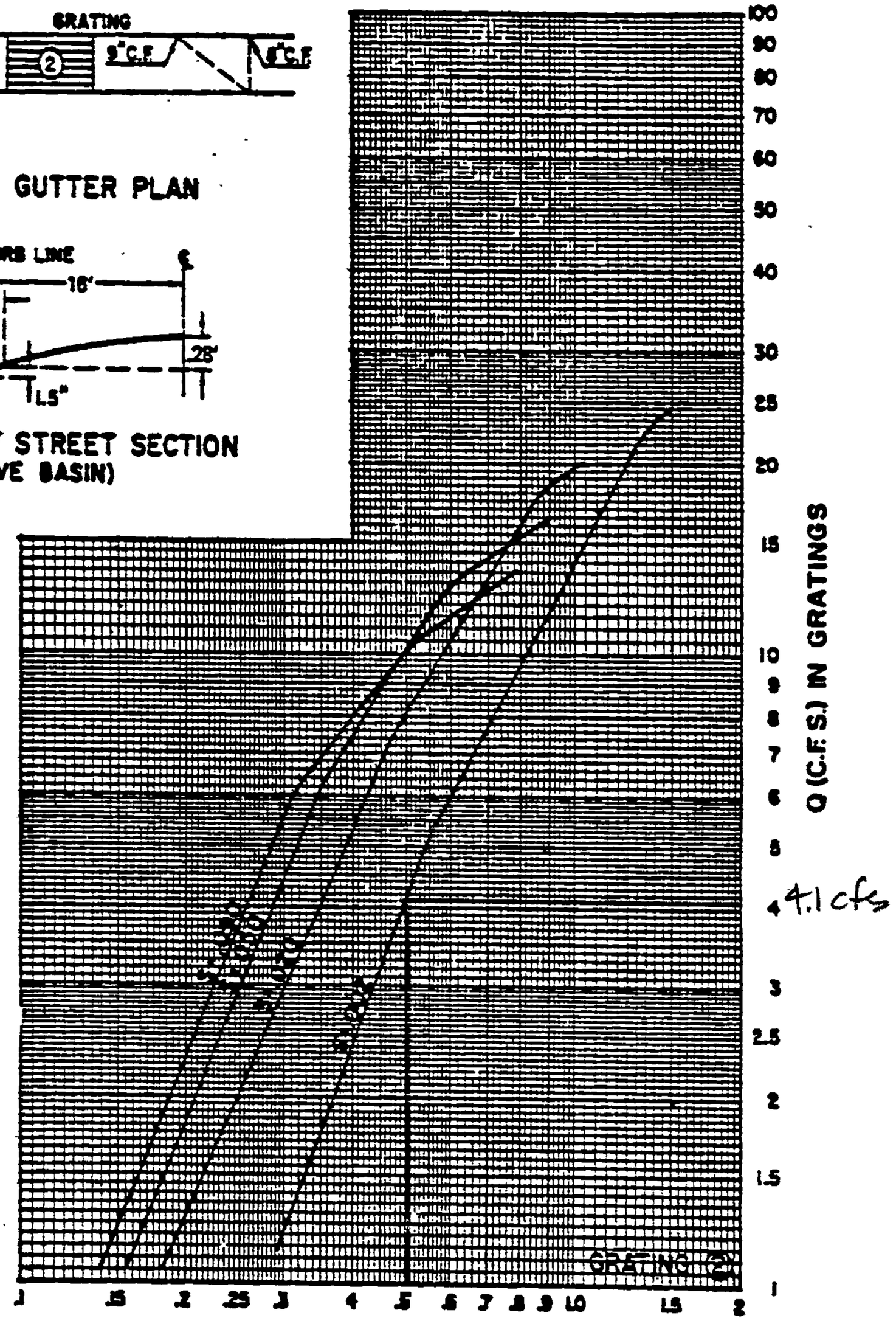
GRATING CAPACITIES FOR TYPE 'A', 'C' and 'D'



GRATING & GUTTER PLAN



TYPICAL HALF STREET SECTION
(ABOVE BASIN)



D1(B)

EXISTING DROP INLET @ SW CORNER PROPERTY CAN HANDLE BASIN B.