

Planning Department Transportation Development Services Section

July 31, 2007

Paul Michael Wymer, Registered Architect Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109

Re:

Certification Submittal for Final Building Certificate of Occupancy for

Lofland Company of New Mexico, [H-14 / D81]

2300 1st Street NW

Architect's Stamp Dated 07/30/07

P.O. Box 1293

Dear Mr. Wymer:

Albuquerque

The TCL / Letter of Certification submitted on July 30, 2007 is sufficient for acceptance by this office for final Certificate of Occupancy (C.O.). Notification has been made to the Building and Safety Section.

Singerely,

New Mexico 87103

Nilo E. Salgado-Fernandez, P.E.

www.cabq.gov Senior Traffic Engineer

Development and Building Services

Planning Department

C:

Engineer
Hydrology file
CO Clerk

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: LOFLAND COMPANY OF NEW MEXICO DRB #. 1004390 EPC#.	ZONE MAP/DRG. FILE #: H-14/D81) WORK ORDER #.
LEGAL DESCRIPTION: Plat of Lot "1-A-1" Franciscan Addition (Filed	: 02/09/2006, Book 2006C, Page 48).
CITY ADDRESS: 2300 1 st Street , N.W. Albuquerque, New Mexic	
ENGINEERING FIRM: Bohannan Huston, Inc.	CONTACT: Bruce Stidworthy, PE
ADDRESS: 7500 Jefferson Street NE	PHONE: (505) 823-1000
CITY, STATE: Albuquerque, NM	ZIP CODE: 87109
OWNER: CMC STEEL FABRICATORS, INC ADDRESS: 2300 1 ^{S1} STREET	CONTACT: PHONE: (505) 247-4344
CITY, STATE: Albuquerque, New Mexico	ZIP CODE: 87102
ARCHITECT: DWL Architects & Planners, Inc. of New Mexico	CONTACT: Willard L. Eastman
ADDRESS: 202 Central Ave. S.E., West Courtyard	PHONE: (505) 242-6202
CITY, STATE: <u>Albuquerque, NM</u>	ZIP CODE: <u>87102</u>
SURVEYOR: Hall Surveying Co.	CONTACT: Preston Hall, L.S.
ADDRESS: 12805 Menaul Blvd.	PHONE: (505) 292-6727
CITY, STATE: Albuquerque, New Mexico	ZIP CODE: 87112
CONTRACTOR: Michael C. Dich Centractore Inc	CONTACT. Brish and Dist
CONTRACTOR: Michael S. Rich Contractors, Inc. ADDRESS: 8401 Firestone Ln, N.E.	CONTACT: Michael Rich PHONE: (505) 823-9782
CITY, STATE: Albuquerque, New Mexico	ZIP CODE: 87199
CHECK TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
DRAINAGE REPORT	SIA / FINANCIAL GUARANTEE RELEASE
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Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of 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 subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335

www.bhinc.com

voice: 505.823.1000 facsimile: 505.798.7988 toll free: 800.877.5332

July 30, 2007

Wilfred Gallegos, P.E. Traffic Engineer City of Albuquerque P O Box 1293 Albuquerque, NM 87103

Re: TCL: Lofland Steel Project: - 2300 First Street, NW

Dear Mr. Gallegos:

Enclosed is the TCL for the subject project. All improvements associated with this project have been completed. I inspected the site on Tuesday, June 26, 2007 and noted the following:

- 1. All required parking spaces have been installed in the location noted on the TCL.
- 2. The portion of required sidewalk on First Street towards the north end of the site has been completed.
- 3. All concrete and asphalt drive slabs have been built.
- 4. The middle vehicular entry gate and associated drive pad were not removed. At the request of our client, I met with you on September 11, 2006 to request that this access be allowed to remain. It was agreed that the access could remain as an "emergency" access only. I would be happy to discuss this with you further, should you require additional information.

With this submittal, we are requesting Transportation Development sign-off for the project's Certificate of Occupancy.

Thank you for your assistance in this matter. Please feel free to call with comments or questions.

Sincerely,

Paul M. Wymer, AtA

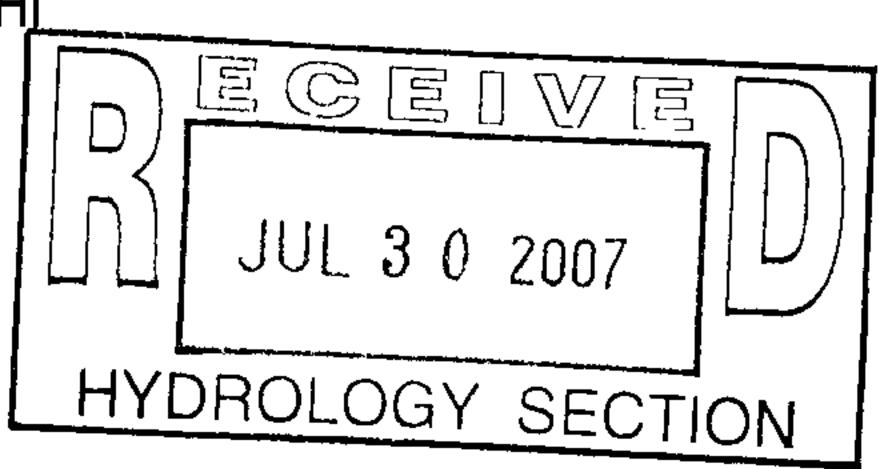
Project Manager

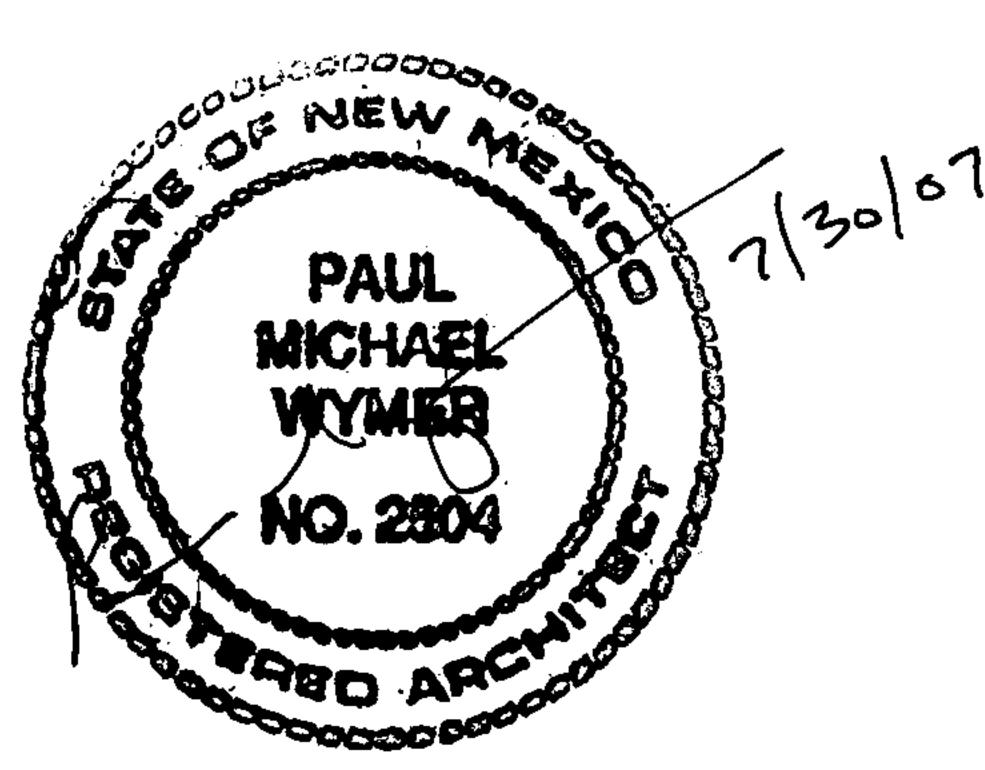
Community Development and Planning

PMW/am Enclosure

cc: Russell Reinhard, SMI-Texas

Bruce Stidworthy, BHL

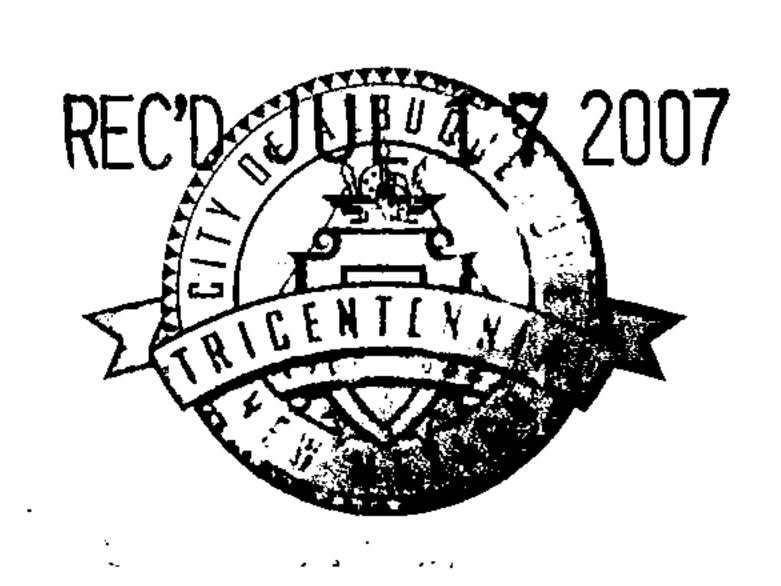




ENGINEERING A

SPATIAL DATA

ADVANCED TECHNOLOGIES .



Planning Department Transportation Development Services Section

co: Stephanie W.

July 16, 2007

Paul M. Wymer, Registered Architect Bohannan Huston Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335

Re:

Approval of Temporary Certificate of Occupancy (C.O.) for

Lofland Steel Project, [H-14 / D81]

2300 1st Street NW

Architect's Stamp Dated 07/12/07

Dear Mr. Wymer:

P.O. Box 1293

Based on the information provided on your submittal dated July 13, 2007, the above referenced project is approved for a 90-day Temporary C.O.

Albuquerque

A Temporary C.O. has been issued allowing the Stamp (need Architect Stamp on letter of Certification) issue to be completed within this time period. When these remaining issues have been fully completed, are in substantial compliance, and a final Certification for Transportation has been resubmitted to the City's Hydrology office for approval, a Permanent C.O. will be issued.

New Mexico 87103

www.cabq.gov

The Certification package for Final C.O. must include an <u>exact</u> copy of the approved TCL, or signed off D.R.B. Site Plan, which is in each of the two City Permit Plan Sets—the contractor's City field set and the City's plan set in the basement of the Plaza Del Sol building. Package also must include a letter of certification on designer's letterhead-stamped with his seal, signed, and dated. Submit package along with fully completed Drainage Information Sheet to front counter personnel for log in and evaluation by Transportation.

If you have any questions, please call me at 924-3630.

A

Sincerely

/Wilp Ex Salgado-Fernandez, P.E.

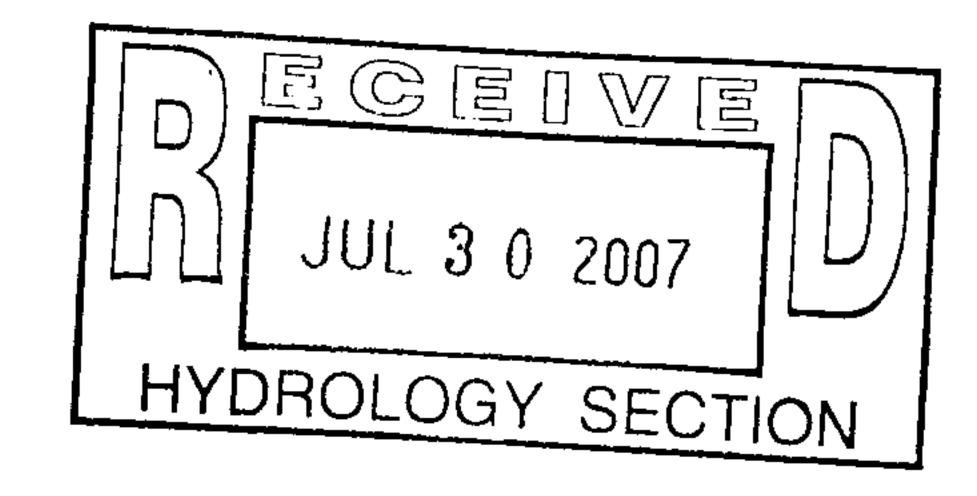
Senior Traffic Engineer

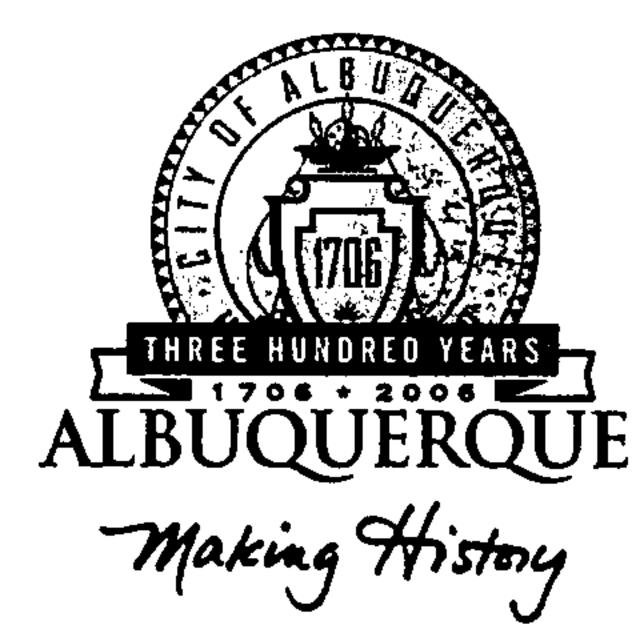
Development and Building Services

Rlanning Department

C:

Engineer
Hydrology file
CO Clerk





Planning Department Transportation Development Services Section

April 28, 2006

Paul Wymer Bohannan Huston 7500 Jefferson St. NE Albuquerque NM 87109-4335

Re: Traffic Circulation Layout (TCL) Submittal for Building Permit Approval for Offices and Warehouse for Lofland Company of New Mexico [H-14/D-81] (2301 1st Street NW), Albuquerque, NM Engineer's/Architect's Stamp Dated 04-28-2006

Dear Wymer,

The TCL submittal dated April 28, 2006 is approved for building permit. The plan is stamped and signed as approved. Two copies of the plan that is stamped as approved will be required: one for each of the building permit plans and the original to be kept by you to be used for certification of the site for final C.O. for Transportation. *Public infrastructure or work done within City Right-of-Way shown on these plans is for information only and is not part of approval. A separate DRC and/or other appropriate permits are required to construct these items.*

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

If a temporary CO is needed then a copy of the original TCL that was stamped as approved by the City which includes a statement that identifies the outstanding items that need to be constructed or the items that have not been built in "substantial compliance". This statement requires a NM registered architect or engineer stamp to be dated. Submit this TCL with a completed <u>Drainage and Transportation Information Sheet</u> to Hydrology at the Development Services Center of Plaza Del Sol Building.

When the site is completed and a final C.O. is requested, use the original City stamped approved TCL for certification. A NM registered architect or engineer needs stamp and date the certification TCL along with indicating that the development was built in "substantial compliance" with the TCL. Submit this certification TCL with a completed Drainage and Transportation Information Sheet to Hydrology at the Development Services Center of Plaza Del Sol Building.

Once verification of certification is completed and approved, notification will be made to Building Safety to issue Final C.O. To confirm that a final C.O. has been issued, call Building Safety at 924-3306.

Sincerely,

Wilfred A. Gallegos, PE

Development and Building Services

cc: Hydrology file

File



July 17, 2007

Bruce Stidworthy, P.E. Bohannan Huston, Inc. 7500 Jefferson St. NE Albuquerque, NM 87109

Re: Lofland Company of New Mexico, 2300 1st Street NW, Lot 1-a-1,

Approval of Permanent Certificate of Occupancy (C.O.)

Engineer's Stamp dated 04/19/2006 (H-14/D081)

Certification dated 07/12/2007

Based upon the information provided in your submittal received 07/13/2007, the above referenced certification is approved for release of Permanent Certificate of Occupancy by Hydrology.

P.O. Box 1293

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

Sincerely,

Albuquerque

Timothy Sims

Plan Checker, Planning Dept.

New Mexico 87103

Development and Building Services

www.cabq.gov

C: CO Clerk-Katrina Sigala

File

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: LOFLAND COMPANY OF NEW MEXICO DRB #. 1004390 EPC#.	ZONE MAP/DRG. FILE #: H-14/D81 WORK ORDER #.
LEGAL DESCRIPTION: Plat of Lot "1-A-1" Franciscan Addition (Filed: CITY ADDRESS: 2300 1 st Street, N.W. Albuquerque, New Mexic	
ENGINEERING FIRM: Bohannan Huston, Inc.	CONTACT: Bruce Stidworthy, PE
ADDRESS: 7500 Jefferson Street NE	PHONE: (505) 823-1000
CITY, STATE: Albuquerque, NM	ZIP CODE: <u>87109</u>
OWNER: CMC STEEL FABRICATORS, INC	CONTACT:
ADDRESS: 2300 1 ST STREET	PHONE: (505) 247-4344
CITY, STATE: Albuquerque, New Mexico	ZIP CODE: 87102
ARCHITECT: DWL Architects & Planners, Inc. of New Mexico	CONTACT: Willard L. Eastman
ADDRESS: 202 Central Ave. S.E., West Courtyard	PHONE: (505) 242-6202
CITY, STATE: Albuquerque, NM	ZIP CODE: 87102
SURVEYOR: Hall Surveying Co.	CONTACT: Preston Hall, L.S.
ADDRESS: 12805 Menaul Blvd.	PHONE: (505) 292-6727
CITY, STATE: Albuquerque, New Mexico	ZIP CODE: <u>87112</u>
CONTRACTOR: Michael S. Rich Contractors, Inc.	CONTACT: Michael Rich
ADDRESS: 8401 Firestone Ln, N.E.	PHONE: (505) 823-9782
CITY, STATE: Albuquerque, New Mexico	ZIP CODE: 87199
CHECK TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
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	WORK ORDER APPROVAL
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WAS A PRE-DESIGN CONFERENCE ATTENDED: [D] [国 (D) [国 (D)]	
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HYDROLOGY	SECTION
DATE SUBMITTED: July 13, 2007	BY: Bruce J. Stidworthy, PE
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Planning Department Transportation Development Services Section

July 16, 2007

Paul M. Wymer, Registered Architect Bohannan Huston Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335

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Willo Ex Salgado-Fernandez, P.E.

Semor Traffic Engineer

Development and Building Services

Rlanning Department

C:

Engineer
Hydrology file
CO Clerk

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: LOFLAND COMPANY OF NEW MEXICO DRB #. 1004390 EPC#.	ZONE MAP/DRG. FILE #: H-14/D81 WORK ORDER #.
LEGAL DESCRIPTION: Plat of Lot "1-A-1" Franciscan Addition (Filed:	······································
CITY ADDRESS: 2300 1 st Street , N.W. Albuquerque, New Mexic	;O
ENGINEERING FIRM: Bohannan Huston, Inc.	CONTACT: Bruce Stidworthy, PE
ADDRESS: 7500 Jefferson Street NE	PHONE: (505) 823-1000
CITY, STATE: Albuquerque, NM	ZIP CODE: 87109
OWNER: CMC STEEL FABRICATORS, INC	CONTACT:
ADDRESS: 2300 1 ^{S1} STREET	PHONE: (505) 247-4344
CITY, STATE: <u>Albuquerque, New Mexico</u>	ZIP CODE: <u>87102</u>
ARCHITECT: DWL Architects & Planners, Inc. of New Mexico	CONTACT: Willard L. Eastman
ADDRESS: 202 Central Ave. S.E., West Courtyard	PHONE: (505) 242-6202
CITY, STATE: Albuquerque, NM	ZIP CODE: 87102
SURVEYOR: Hall Surveying Co.	CONTACT: Preston Hall, L.S.
ADDRESS: 12805 Menaul Blvd.	PHONE: (505) 292-6727
CITY, STATE: <u>Albuquerque, New Mexico</u>	ZIP CODE: <u>87112</u>
CONTRACTOR: Michael S. Rich Contractors, Inc.	CONTACT: Michael Rich
ADDRESS: 8401 Firestone Ln, N.E.	PHONE: (505) 823-9782
CITY, STATE: Albuquerque, New Mexico	ZIP CODE: 87199
CHECK TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
DRAINAGE REPORT	SIA / FINANCIAL GUARANTEE RELEASE
DRAINAGE PLAN 1 ST SUBMITTAL, <i>REQUIRES TCL or equal</i>	PRELIMINARY PLAT APPROVAL
DRAINAGE PLAN RESUBMITTAL	S. DEV. PLAN FOR SUB'D APPROVAL
GRADING PLAN	S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
EROSION CONTROL PLAN	SECTOR PLAN APPROVAL
ENGINEER'S CERTIFICATION (HYDROLOGY)	FINAL PLAT APPROVAL
CLOMR/LOMR	FOUNDATION PERMIT APPROVAL
TRAFFIC CIRCULATION LAYOUT (TCL)	BUILDING PERMIT APPROVAL
X ENGINEER'S CERTIFICATION (TCL)	X CERTIFICATE OF OCCUPANCY (PERM.)
ENGINEER'S CERTIFICATION (DRB APPR. SITE PLAN)	CERTIFICATE OF OCCUPANCY (TEMP.)
OTHER	GRADING PERMIT APPROVAL
	PAVING PERMIT APPROVAL
	WORK ORDER APPROVAL
WAS A PRE-DESIGN CONFERENCE ATTENDED:	
xx YES	
NO NO $10 13$	2007
XX COPY PROVIDED	
HYDROLOGY	SECTION
DATE SUBMITTED: July 13, 2007	BY: Bruce J. Stidworthy, PE

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of 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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- 3. Drainage Report: Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

July 12, 2007

Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335

www.bhinc.com

voice: 505.823.1000 facsimile: 505.798.7988 toll free: 800.877.5332

Wilfred Gallegos, P.E.
Traffic Engineer
City of Albuquerque
P O Box 1293
Albuquerque, NM 87103

Re:

TCL: Lofland Steel Project: - 2300 First Street, NW

Dear Mr. Gallegos:

Enclosed is the TCL for the subject project. All improvements associated with this project have been completed. I inspected the site on Tuesday, June 26, 2007 and noted the following:

- 1. All required parking spaces have been installed in the location noted on the TCL.
- 2. The portion of required sidewalk on First Street towards the north end of the site has been completed.
- 3. All concrete and asphalt drive slabs have been built.
- 4. The middle vehicular entry gate and associated drive pad were not removed. At the request of our client, I met with you on September 11, 2006 to request that this access be allowed to remain. It was agreed that the access could remain as an "emergency" access only. I would be happy to discuss this with you further, should you require additional information.

With this submittal, we are requesting Transportation Development sign-off for the project's Certificate of Occupancy.

Thank you for your assistance in this matter. Please feel free to call with comments or questions.

Sincerely,

Paul M. Wymer, AIA

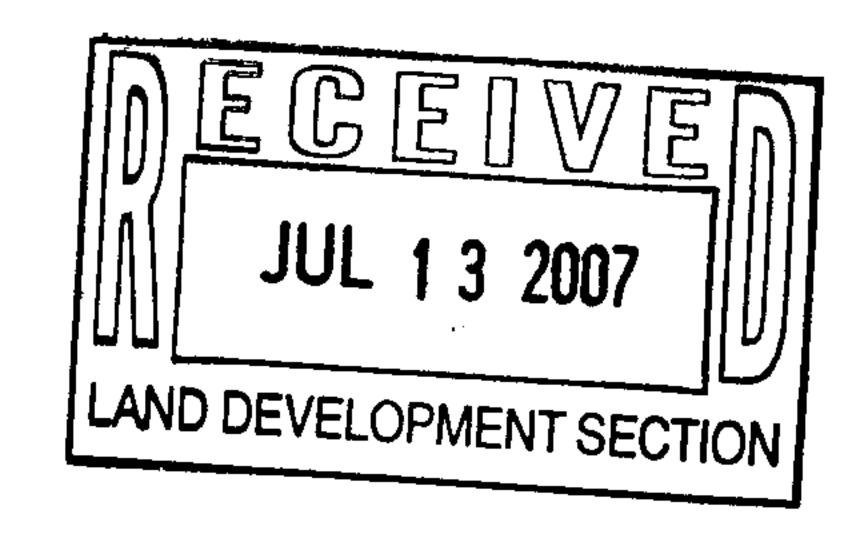
Project Manager

Community Development and Planning

PMW/am Enclosure

CC:

Russell Reinhard, SMI-Texas Bruce Stidworthy, BHI



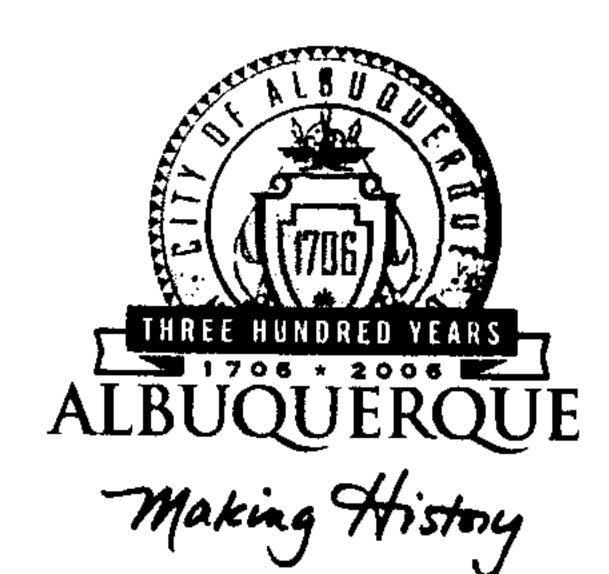
AND)

OKAY W/ ME.

White)

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M



Planning Department Transportation Development Services Section

April 28, 2006

Paul Wymer Bohannan Huston 7500 Jefferson St. NE Albuquerque NM 87109-4335

Re: Traffic Circulation Layout (TCL) Submittal for Building Permit Approval for Offices and Warehouse for Lofland Company of New Mexico [H-14/D-81] (2301 1st Street NW), Albuquerque, NM Engineer's/Architect's Stamp Dated 04-28-2006

Dear Wymer,

The TCL submittal dated April 28, 2006 is approved for building permit. The plan is stamped and signed as approved. Two copies of the plan that is stamped as approved will be required: one for each of the building permit plans and the original to be kept by you to be used for certification of the site for final C.O. for Transportation. *Public infrastructure or work done within City Right-of-Way shown on these plans is for information only and is not part of approval. A separate DRC and/or other appropriate permits are required to construct these items.*

Albuquerque

P.O. Box 1293

If a temporary CO is needed then a copy of the original TCL that was stamped as approved by the City which includes a statement that identifies the outstanding items that need to be constructed or the items that have not been built in "substantial compliance". This statement requires a NM registered architect or engineer stamp to be dated. Submit this TCL with a completed <u>Drainage and Transportation Information Sheet</u> to Hydrology at the Development Services Center of Plaza Del Sol Building.

New Mexico 87103

www.cabq.gov

When the site is completed and a final C.O. is requested, use the original City stamped approved TCL for certification. A NM registered architect or engineer needs stamp and date the certification TCL along with indicating that the development was built in "substantial compliance" with the TCL. Submit this certification TCL with a completed Drainage and Transportation Information Sheet to Hydrology at the Development Services Center of Plaza Del Sol Building.

Once verification of certification is completed and approved, notification will be made to Building Safety to issue Final C.O. To confirm that a final C.O. has been issued, call Building Safety at 924-3306.

Sincerely,

Wilfred A. Gallegos, PE

Development and Building Services

cc: Hydrology file

File

Albuquerque - Making History 1706-2006

DRAINAGE ... D TRANSPORTATION INFORMA ON SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: LOFLAND COMPANY OF NEW MEXICO DRB #. EPC#.	ZONE MAP/DRG. FILE #: H-14-Z D-8
	WORK ORDER #.
LEGAL DESCRIPTION: Plat of Lot "1-A-1" Franciscan Addition (Filed: 02/	/09/2006, Book 2006C, Page 48).
CITY ADDRESS: 2300 1 st Street , N.W. Albuquerque, New Mexico	
ENICINIEEDINIC EIDM Dobomon I broken Inc	
ENGINEERING FIRM: Bohannan Huston, Inc. ADDRESS: 7500 Jefferson Street NE	CONTACT: Bruce Stidworthy, PE
CITY, STATE: Albuquerque, NM	PHONE: (505) 823-1000 ZIP CODE: 87109
, , , , , , , , , , , , , , , , , , ,	ZIF CODE
OWNER: CMC STEEL FABRICATORS, INC	CONTACT:
ADDRESS: 2300 1 ST STREET	PHONE: (505) 247-4344
CITY, STATE: Albuquerque, New Mexico	ZIP CODE: 87102
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CITY, STATE: Albuquerque, NM	PHONE: (505) 242-6202
Tabaquoiquo, ivii	ZIP CODE: 87102
SURVEYOR: Hall Surveying Co.	CONTACT: Preston Hall, L.S.
ADDRESS: 12805 Menaul Blvd.	PHONE: (505) 292-6727
CITY, STATE: Albuquerque, New Mexico	ZIP CODE: 87112
CONTRACTOR: Michael S. Rich Contractors, Inc. ADDRESS: 8401 Firestone Ln, N.E.	CONTACT: Michael Rich
CITY, STATE: Albuquerque, New Mexico	PHONE: (505) 823-9782
Tribudacidae, incharacte	ZIP CODE: 87199
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DRAINAGE PLAN RESUBMITTAL GRADING PLAN	S. DEV. PLAN FOR SUB'D APPROVAL
EROSION CONTROL PLAN	S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
ENGINEER'S CERTIFICATION (HYDROLOGY)	SECTOR PLAN APPROVAL
CLOMR/LOMR	FINAL PLAT APPROVAL xx FOUNDATION PERMIT APPROVAL
XX TRAFFIC CIRCULATION LAYOUT (TCL)	<pre>_xx</pre>
ENGINEER'S CERTIFICATION (TCL)	CERTIFICATE OF OCCUPANCY (PERM.)
ENGINEER'S CERTIFICATION (DRB APPR. SITE PLAN)	CERTIFICATE OF OCCUPANCY (TEMP.)
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XX COPY PROVIDED	1141 LYD/T 0.5/AND XTX
LAND DEVELOPMENT SECT	TON
LAND DEVELOPINITIAN OF ON	HYDROLOGY SECTION
DATE SUBMITTED: February 16, 2006 B	Y: Bruce J. Stidworthy, PE
	i. Diuce J. Suuwoilily, PE

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Fix 060132 002 127



May 2, 2006

Bruce Stidworthy, PE Bohannan Huston, Inc. 7500 Jefferson St. NE Albuquerque, NM 87109

Re: Lofland of New Mexico Grading and Drainage Plan Engineer's Stamp dated 4-19-06 (H14/D81)

Dear Mr. Stidworthy,

Based upon the information provided in your submittal dated 4-19-06, 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.

This project requires a National Pollutant Discharge Elimination System (NPDES) permit. If you have any questions please visit http://www.cabq.gov/flood/npdesm.html or feel free to call the Municipal Development Department Hydrology Section at 768-3654 (Charles Caruso).

Also, prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

If you have any questions, you can contact me at 924-3695.

Curtis A. Cherne

Sincerely,

Engineering Associate, Planning Dept.

Development and Building Services

file

Charles Caruso, DMD

C

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: LOFLAND COMPANY OF NEW MEXICO DRB #. 1004390 EPC#.	ZONE MAP/DRG. FILE #: H-14-Z D 8 WORK ORDER #.
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ENGINEERING FIRM: Bohannan Huston, Inc. ADDRESS: 7500 Jefferson Street NE	CONTACT: Bruce Stidworthy, PE PHONE: (505) 823-1000
CITY, STATE: Albuquerque, NM	ZIP CODE: 87109
OWNER: CMC STEEL FABRICATORS, INC ADDRESS: 2300 1 ST STREET	CONTACT: PHONE: (505) 247-4344
CITY, STATE: Albuquerque, New Mexico	ZIP CODE: <u>87102</u>
ARCHITECT: DWL Architects & Planners, Inc. of New Mexico ADDRESS: 202 Central Ave. S.E., West Courtyard CITY, STATE: Albuquerque, NM	CONTACT: Willard L. Eastman PHONE: (505) 242-6202 ZIP CODE: 87102
SURVEYOR: Hall Surveying Co. ADDRESS: 12805 Menaul Blvd. CITY, STATE: Albuquerque, New Mexico	CONTACT: Preston Hall, L.S. PHONE: (505) 292-6727 ZIP CODE: 87112
CONTRACTOR: Michael S. Rich Contractors, Inc. ADDRESS: 8401 Firestone Ln, N.E. CITY, STATE: Albuquerque, New Mexico	CONTACT: Michael Rich PHONE: (505) 823-9782 ZIP CODE: 87199
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DRAINAGE REPORT DRAINAGE PLAN 1 ST SUBMITTAL, <i>REQUIRES TCL or equal</i> XX DRAINAGE PLAN RESUBMITTAL GRADING PLAN EROSION CONTROL PLAN ENGINEER'S CERTIFICATION (HYDROLOGY) CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT (TCL) ENGINEER'S CERTIFICATION (TCL) ENGINEER'S CERTIFICATION (DRB APPR. SITE PLAN) OTHER	SIA / FINANCIAL GUARANTEE RELEASE PRELIMINARY PLAT APPROVAL S. DEV. PLAN FOR SUB'D APPROVAL S. DEV. PLAN FOR BLDG. PERMIT APPROVAL SECTOR PLAN APPROVAL FINAL PLAT APPROVAL FOUNDATION PERMIT APPROVAL 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: XX YES NO XX COPY PROVIDED	D 国 区 区 D APR 1 9 2006 HYDROLOGY SECTION
DATE SUBMITTED: April 19, 2006	BY: Bruce J. Stidworthy, PE

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Find All, Alloyou Remail

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April 19, 2006

Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335

www.bhinc.com

voice: 505.823.1000 facsimile: 505.798.7988 toll free: 800.877.5332

Ms. Kristal Metro City of Albuquerque PO Box 1293 Albuquerque, NM 87103

Re:

Lofland of New Mexico, 2300 1st Street NW, Response to City Hydrology Comments, City Hydrology file # H14/D81

Dear Kristal:

This letter is provided in response to your review comments as provided in your letter to me dated April 6, 2006. Please note that a pre-design meeting was held between Richard Hall and Brad Bingham on Thursday September 15, 2005. The basic conclusion of that meeting was that this project is a simple urban infill project which will not adversely impact downstream conditions. A copy of the e-mail documenting that discussion is attached to this letter for your files. Below are responses to each of your comments:

- 1. An executive summary has been provided on the grading and drainage plan, it addresses the specific subjects that you requested.
- 2. Benchmark information has been provided on the plan.
- 3. A reduced scale copy of the applicable Flood Insurance Rate Map has been shown on the plan. It indicates that the nearest floodplain is at the corner of Arvada and 2nd Street. The site does drain to this floodplain, but based on pre-design discussions, we conclude that the project does not have an adverse impact.
- 4. The southernmost portion of the site is not being modified as a result of this project. It is almost entirely impervious. The hatch patterns and legend have been modified in order to clarify the various site conditions.
- 5. Finished floor elevations for all existing buildings have been provided. The only new structure is not a "building" per se. It is basically a "shade structure" to provide shelter from the sun and rain for steel fabrication work. However, the structure does not have a single finished floor elevation and it does not have walls.

With the comment responses provided in this letter and the revised grading and drainage plan, we are requesting your approval for grading and building permit. Please contact me or Paul Wymer if you have any questions.

Sincerely,

Bruce J. Stidworthy, P.E.

Vice President

Community Development and Planning

BJS/cc

CC:

Paul Wymer, BHI Russell Reinhard, SMI APR 1 9 2006

HYDROLOGY SECTION

ENGINEERING A

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Richard Hall

From: Bruce Stidworthy

Sent: Thursday, September 15, 2005 5:56 PM

To: Richard Hall

Subject: RE: Predesign for Lofland Steel

Richard: Excellent documentation. Please make sure this gets in the file. Thanks, Bruce.

From: Richard Hall

Sent: Thursday, September 15, 2005 4:26 PM

To: Smith, Tom (South Carolina); Keller, Kolin; Reinhard, Russell G.; 'Lindeman, Wade C'; \BBingham@cabq.gov\, Bruce

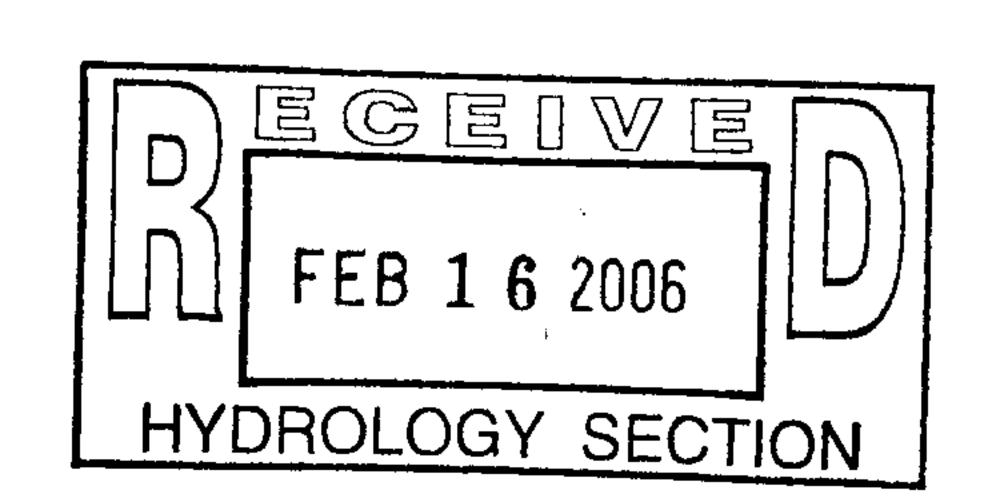
Stidworthy

Subject: Predesign for Lofland Steel

To all concerned parties,

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Richard V. Hall PE
Community Development & Planning
BOHANNAN HUSTON
7500 Jefferson St. NE
Office 823-1000 Fax 798-7988
email rhall@bhinc.com



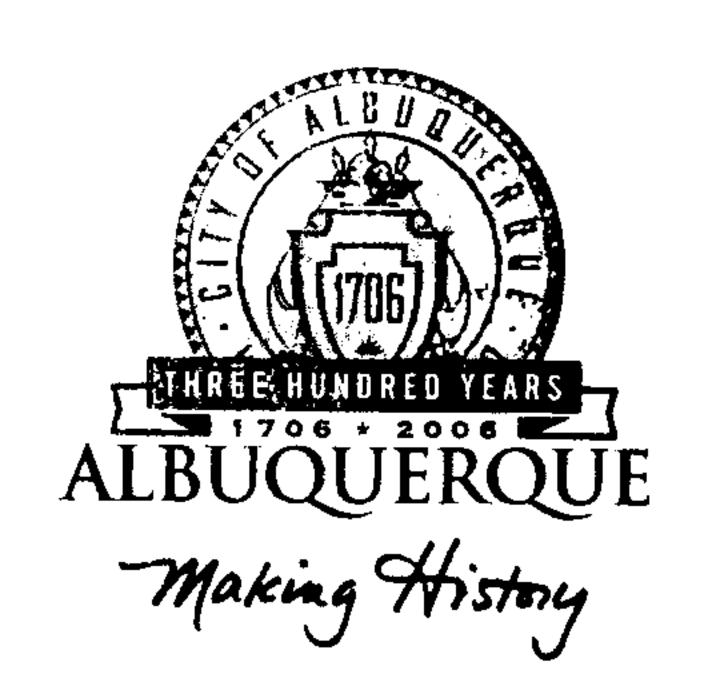
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(REV. 1/28/2003rd)

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XXCOPY PROVIDED	HYDROLOGY SECTION
DATE SUBMITTED: February 16, 2006	BY: Bruce J. Stidworthy, PE

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April 6, 2006

Bruce Stidworthy, P.E.
Bohannan Huston, Inc.
7500 Jefferson NE – Courtyard 1
Albuquerque, NM 87109

Re: Lofland of New Mexico, 2300 1st Street NW, Grading and Drainage Plan Engineer's Stamp dated 2-16-06 (H14-D81)

Dear Mr. Stidworthy,

Based upon the information provided in your submittal received 2-16-06, the above referenced plan cannot be approved for Building Permit until the following comments are addressed:

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

1. Provide an executive summary on the plan, defining the general project location, development concept for the site, drainage concept for the site, any master plans relevant to this site, how offsite flows will be handled, how onsite flows will be handled and discharged, downstream capacity and how it was determined, and impacts on or requirements of other jurisdictions (as per the Development Process Manual).

2. A benchmark must be provided.

- 3. Please identify the proximity of the site to a designated Flood Hazard Zone, including a copy of the relevant FEMA Flood Insurance Rate Map (FIRM). In addition, define whether or not the site drains to or has an adverse impact upon a designated Flood Hazard Zone.
- 4. Clarify whether the southernmost area is currently paved or not. The legend shown is unclear, as several hatchings are too similar. It is currently difficult to differentiate between existing and proposed conditions.
- 5. Provide finished floor elevations for all buildings, both existing and proposed.

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

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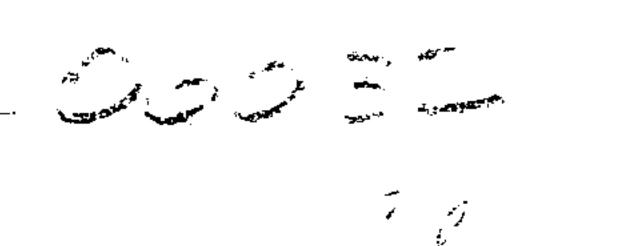
Kristal D. Metro, P.E.

Sincerely,

Senior Engineer, Planning Dept.

Development and Building Services

C: File



Richard Hall

From:

Bruce Stidworthy

Sent:

Thursday, September 15, 2005 5:56 PM

To:

Richard Hall

Subject: RE: Predesign for Lofland Steel

Richard: Excellent documentation. Please make sure this gets in the file. Thanks, Bruce.

From: Richard Hall

Sent: Thursday, September 15, 2005 4:26 PM

To: Smith, Tom (South Carolina); Keller, Kolin; Reinhard, Russell G.; 'Lindeman, Wade C'; 'BBingham@cabq.gov'; Bruce

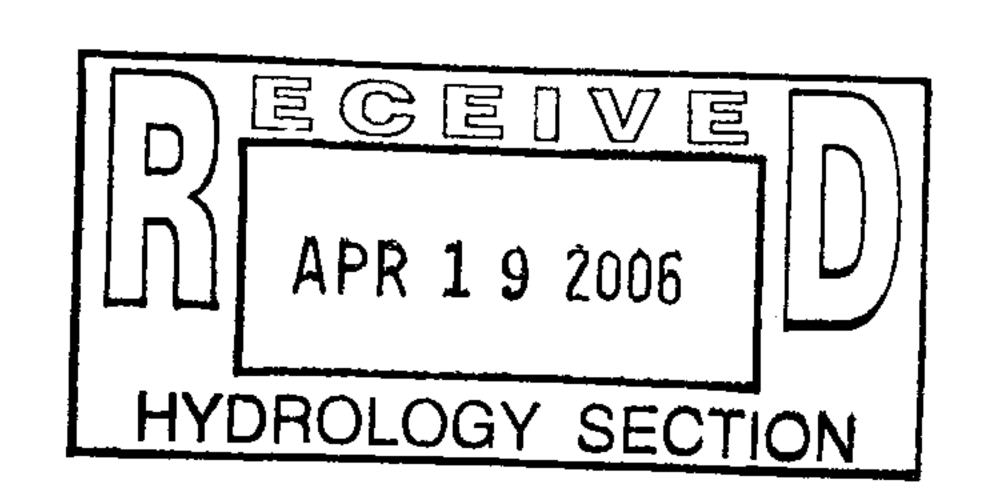
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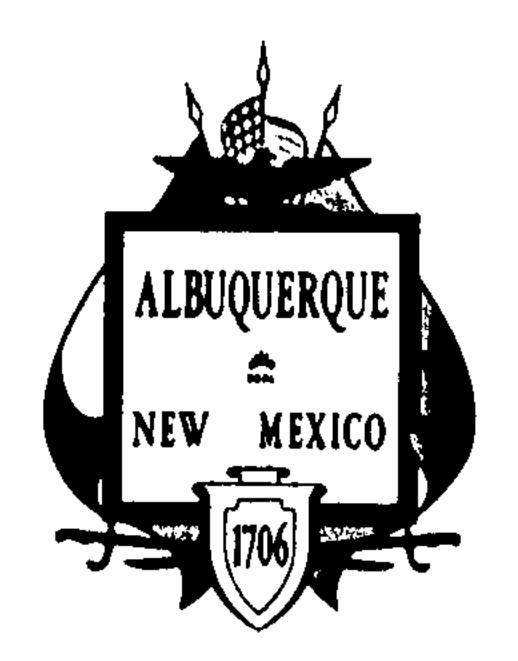
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Richard V. Hall PE
Community Development & Planning
BOHANNAN HUSTON
7500 Jefferson St. NE
Office 823-1000 Fax 798-7988
email rhall@bhinc.com





City of Albuquerque P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

January 28, 1999

Chris Weiss Engineering Inc. P.O. Box 97 Sandia Park, New Mexico 87047

RE: ENGINEER'S CERTIFICATION FOR CERTIFICATE OF OCCUPANCY FOR FIRST STREET FACILITY HAUSMAN CORP. (H-14/D81) ENGINEER CERTIFICATION STATEMENT 1/8/99

Dear Mr. Weiss:

Based on the information provided on your January 11, 1999 submittal, Engineer's Certification for the above referenced site is acceptable.

If I can be of any further assistance, please feel free to contact me at 924-3330.

Sincerely,

Andrew Garcia

Drainage Inspector

c: File

RESUBMITTAL DRAINAGE INFORMATION SHEET

PROJECT TITLE: First Street Facility Lofland Company	ZONE ATLAS / DRNG. FILE #: H14-D81		
LEGAL DESCRIPTION: Lots 1-A, Block 12, Franciscan Addition	on, Albuquerque, New Mexico		
CITY ADDRESS: 2300 First Street NW			
ENGINEERING FIRM: C.L. Weiss Engineering	CONTACT: Chris Weiss		
ADDRESS: P.O. Box 97, Sandia Park NM, 87047	PHONE: 281-1800		
OWNER:	CONTACT:		
ADDRESS:	PHONE:		
ARCHITECT:	CONTACT:		
ADDRESS:	PHONE:		
SURVEYOR: Forstbauer Surveying Co.	CONTACT: Ron Forstbauer		
ADDRESS: 1100 Alvarado Dr. NE - 87110	PHONE: 268-2112		
CONTRACTOR FIRM:	CONTACT:		
ADDRESS:	PHONE:		
PRE-DESIGN MEETING:			
YES	DRB NO		
	EPC NO		
COPY OF CONFERENCE RECAP SHEET PROVIDED	PROJ. NO		
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:		
DRAINAGE REPORT	SKETCH PLAT		
DRAINAGE PLAN	PRELIMINARY PLAT		
CONCEPTUAL GRADING & DRAINAGE PLAN	SITE DEVELOPMENT PLAN		
GRADING PLAN	FINAL PLAT		
EROSION CONTROL PLAN	BUILDING PERMIT		
X ENGINEER'S CERTIFICATION	FOUNDATION PERMIT		
JAN 1 1 199	CERT. OF OCCUPANCY ROUGH GRADING PERMIT GRADING / PAVING PERMIT		
HYDROLOGY SE	ECTION OTHER		
DATE SUBMITTED: January 8, 1999			
BY: C.L. Weiss Engineering, Inc.			

i/28/99 par

DRAINAGE INFORMATION SHEET

PROJECT TITLE: First Street Facility Hausman Corporation LEGAL DESCRIPTION: Lots 1-11, Block 12, Franciscan Additional Corporation	ZONE ATLAS / DRNG. FILE #: H-14
CITY ADDRESS: N/A	TON, MIDUGUCI QUE, INEXICO
ENGINEERING FIRM: C.L. Weiss Engineering	CONTACT: Chris Weiss
ADDRESS: P.O. Box 97, Sandia Park NM, 87047	PHONE: 281-1800
OWNER:	CONTACT:
ADDRESS:	PHONE:
ARCHITECT:	CONTACT:
ADDRESS:	PHONE:
SURVEYOR: Forstbauer Surveying Co.	CONTACT: Ron Forstbauer
ADDRESS: 1100 Alvarado Dr. NE - 87110	PHONE: 268-2112
CONTRACTOR FIRM:	CONTACT:
ADDRESS:	PHONE:
PRE-DESIGN MEETING: YES	DRB NO.
	EPC NO.
COPY OF CONFERENCE RECAP SHEET PROVIDED	PROJ. NO
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
DRAINAGE REPORT	SKETCH PLAT
X_ DRAINAGE PLAN	PRELIMINARY PLAT
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X GRADING PLAN	FINAL PLAT
ENCINEED'S CERTIFICATION	X BUILDING PERMIT
ENGINEER'S CERTIFICATION	FOUNDATION PERMIT
	CERT. OF OCCUPANCY
	ROUGH GRADING PERMITGRADING / PAVING PERMIT
	OTHER
DATE SUBMITTED: September 19, 1996 - RESUBMITTAL	EGG .
BY: <u>C.L. Weiss Engineering, Inc.</u>	SEP 2 3 1996



Phone / Fax (505) 281-1800 Alvarado Office (505) 266-3444

September 19, 1996

Bernie J. Montoya, CE Engineering Associate City of Albuquerque P.O. Box 1293 Albuquerque, New Mexico 87103

eiss Engineering-

RE:

DRAINAGE RESUBMITTAL FOR FIRST STREET FACILITY HAUSMAN CORPORATION (H14-D81) ENGINEER'S STAMP DATED 9/19/96

Dear Mr. Montoya:

Enclosed with this letter are two copies of the re-revised DG Plan for the above mentioned project. You previously approved this project in your letter dated June 7, 1996, and you approved a revision in your letter dated August 29, 1996. Since that time, the site plan has changed considerably and a new DG Plan was required.

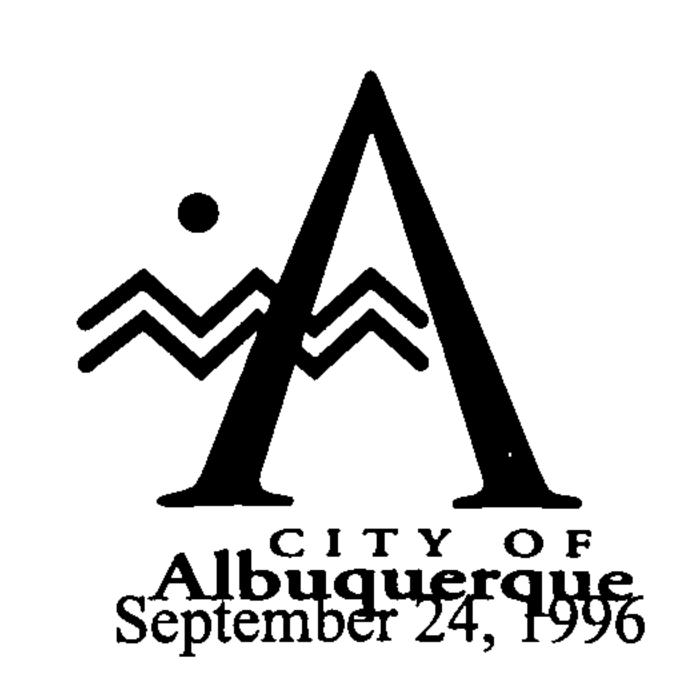
The major change was an increase in the amount of impermeable pavement. This change required us to recalculate the proposed basins, pond design and pond outlet in order to maintain a historical discharge rate to First Street NW.

Please don't hesitate to call me at 266-3444 or Chris Weiss, Project Engineer at 281-1800 if you have any questions, comments or concerns.

Sincerely,

Bryan J. Bobrick, Project Manager C.L. Weiss Engineering, Inc.

SEP 2 3 1996



Martin J. Chávez, Mayor
Chris Weiss
C.L. Weiss Engineering Inc.
P.O. Box 97
Sandia Park, NM 87047

RE: DRAINAGE PLAN FOR FIRST STREET FACILITY HAUSMAN CORPORATION (H14-D81) ENGINEER'S STAMP DATED 9/19/96.

Dear Mr. Weiss:

Based on the information provided on your September 24, 1996 submittal, the above referenced site is approved for Building Permit and S.O. 19.

Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

Also, a separate permit is required for construction within City Right-of-Way. A copy of this approval letter must be on hand when applying for the excavation permit.

Prior to Certificate of Occupancy release, Engineer Certification per the D.P.M. checklist will be required.

If I can be of further assistance, please feel free to contact me at 768-2667.

Sincerely,

Bernie J. Montoya, CE
Engineering Associate

BJM/dl

c: Andrew Garcia
Arlene Portillo

File

		g) Linear					. با
		CALCULAT	IONS:				· · · · · · · · · · · · · · · · · · ·
	on the Drainage Design Cr					1993	
S :						en conservata constitucio acceptata de casa de cabacar	
AREA OF SITE:			SF	= 1 25	Ac	Market de cerentification in the second	
AREA OF SITE.		<u></u>	,	1.25	,		
HISTORIC FLOWS:	j , '	DEVELOPED FLOW	/S•		EXCESS PRECIP	TATION:	
On-Site Historic L	and Condition	On-Site Develope			Precip. Zone	2	ı , ,
Area a =	0 SF	1 ·	= 201101010101	0 SF	Ea =	0.53	
Area b =	0 SF	1	_	4059 SF	Eb =		Ł
Area $\ddot{c} =$	32396 SF	*	<u></u> >-/	10853 SF	Ec =		
Aread =	21950 SF			39434 SF	Ed =	- %. - •	4:.
Total Area =	54346 SF		· · · · · · · · · · · · · · · · · · ·	54346 SF	,		
, TOTAL TYPEA	J1310 01	10.0111100	· · · · · · · · · · · · · · · · · · ·	,	į.	3 ,	
On-Site Weighted Exce	ss Precipitation (100-Year	6-Hour Storm)	•	je.		₽ <i>r</i> s	\$.
On-Site weighted Exce	Weighted E =	EaAa + EbAb + EcAc	+ EdAd			***	••
	* AA CIBITECU L. —	Aa + Ab + Ac +	* * * * * *		•		
Historic E =	1.53 in.	Developed E =	<u></u>	1.82 in.	•		
On-Site Volume of Rui		<u> </u>	<u>* <u>*</u></u>	1.02 111.	٠.	, ,	
Historic V360 =	6928 CF	Developed V360 =	<u></u>	8252 CF	· •		
	Rate: Qp = QpaAa+Qpb		43.560	0232 (01	rè	-	
For Precipitation Zone			15,500	•			
	1.56	Qpc =	= 3.14		*E	i,	ø _{.4} .
Qpa = Qbb =	2.28	^··	= 4.70 ·	• •		£	est. No
Historic Qp =	4.7 CFS	Developed Qp =	= 1.70	5.2 CFS	•	-	
See below for individua)		<u> </u>	\$	\$	
OCC DCION IOI IIICITAICITE	it (Austri arrary 515.	t.				Г .	
		PACINILEY	ICTINICE TO SECURE				
T-a Cita Tanagranhia		BASIN 1 - EX	ISTING SOME				
From Site Topographic	Survey:	BASIN 1 - EX	ISTING Some		ę.		
From Site Topographic Area of Basin flows =	Survey: 31050 SF	=	=	0.7 Ac.	Precip. Zone	2	
From Site Topographic Area of Basin flows =	Survey:	=	=	0.7 Ac.	ę.	-2	
From Site Topographic Area of Basin flows =	Survey: 31050 SF ons are based on Treatmen	t areas as shown in tal	= ble to the right.	0.7 Ac.	ę.	-2	
From Site Topographic Area of Basin flows =	Survey: 31050 SF ons are based on Treatmen Off-Site Weighted Excess	t areas as shown in tal	ble to the right.	0.7 Ac.	Precip. Zone	-2	
From Site Topographic Area of Basin flows =	Survey: 31050 SF ons are based on Treatmen Off-Site Weighted Excess Weighted E	et areas as shown in tal s Precipitation (see for 1.85 in.	ble to the right.	O.7 Ac. TREAT	Precip. Zone	-2	
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From Site Topographic Area of Basin flows = The following calculation	Survey: 31050 SF ons are based on Treatment Off-Site Weighted Excess Weighted E = Off-Site Volume of Runo V360 = Off-Site Peak Discharge Qp =	s Precipitation (see for 1.85 in. off (see formula above 4794 C	ble to the right. rmula above)	0.7 Ac. TREAT A =	Precip. Zone CMENT 0% 0%	-2	
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**Existing Basin 1 flow From Site Topographic **Existing Basin 1 flow From Site Topographic Area of Basin flows =	Survey: 31050 SF ons are based on Treatment Off-Site Weighted Excess Weighted E = Off-Site Volume of Runo V360 = Off-Site Peak Discharge Qp = scurrently exit the site to 1 Survey:	s Precipitation (see for 1.85 in. off (see formula above 4794 C. Rate: (see formula above 3.0 c. lst Street NW BASIN 2 - EX	ble to the right. rmula above) F ove) fs ISTING	0.7 Ac. TREAT A = B = C = D =	Precip. Zone CMENT 0% 0% 27% 73%	2	
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**Existing Basin 1 flow From Site Topographic **Existing Basin 1 flow From Site Topographic Area of Basin flows =	Survey: 31050 SF ons are based on Treatment Off-Site Weighted Excess Weighted E = Off-Site Volume of Runce V360 = Off-Site Peak Discharge Qp = s currently exit the site to 1 Survey: 16248 SF ons are based on Treatment Off-Site Weighted Excess Weighted E = Off-Site Volume of Runce	s Precipitation (see for 1.85 in. off (see formula above 4794 C. Rate: (see formula above 3.0 c. Ist Street NW BASIN 2 - EX at areas as shown in tal see for 1.13 in. off (see formula above 1530 C. Rate: (see formula above 1530 C.	ble to the right. rmula above) F ve) stantage ble to the right. rmula above) poly F ve) f f f f f f f f f f f f f	0.7 Ac. TREAT A = B = C = D = TREAT A =	Precip. Zone TMENT 0% 0% 27% 73% Precip. Zone TMENT 0%	2	
From Site Topographic Area of Basin flows = The following calculation **Existing Basin 1 flows From Site Topographic Area of Basin flows = The following calculation	Survey: 31050 SF ons are based on Treatment Off-Site Weighted Excess Weighted E = Off-Site Volume of Runce V360 = Off-Site Peak Discharge Qp = scurrently exit the site to 1 Survey: 16248 SF ons are based on Treatment Off-Site Weighted Excess Weighted E = Off-Site Volume of Runce V360 = Off-Site Peak Discharge Qp =	s Precipitation (see for 1.85 in. off (see formula above 4794 C. Rate: (see formula above 3.0 c. Ist Street NW BASIN 2 - EX at areas as shown in tal see for 1.13 in. off (see formula above 1530 C. Rate: (see formula above 1530 C.	ble to the right. rmula above) (F) (STING) ble to the right. rmula above) (F) (F)	0.7 Ac. TREAT A = B = C = D = TREAT A =	Precip. Zone O% 0% 27% 73% Precip. Zone CMENT O% 0% 0%	2	
**Existing Basin 1 flow From Site Topographic **Existing Basin 1 flow From Site Topographic Area of Basin flows = The following calculations The following calculations	Survey: 31050 SF ons are based on Treatment Off-Site Weighted Excess Weighted E = Off-Site Volume of Runce V360 = Off-Site Peak Discharge Qp = s currently exit the site to 1 Survey: 16248 SF ons are based on Treatment Off-Site Weighted Excess Weighted E = Off-Site Volume of Runce V360 =	s Precipitation (see for 1.85 in. off (see formula above 4794 C. Rate: (see formula above 3.0 c. Ist Street NW BASIN 2 - EX at areas as shown in tal see for 1.13 in. off (see formula above 1530 C. Rate: (see formula above 1530 C.	ble to the right. rmula above) F ve) stantage ble to the right. rmula above) poly F ve) f f f f f f f f f f f f f	0.7 Ac. TREAT A = B = C = D = TREAT A =	Precip. Zone O% 0% 27% 73% Precip. Zone CMENT O% 0% 0%	2	

BASIN 3 - EXISTING		
rom Site Topographic Survey:		
rea of Basin flows = 7048 SF =	0.2 Ac. Precip. Zon	1e2
he following calculations are based on Treatment areas as shown in table to the right.		
•		
Off-Site Weighted Excess Precipitation (see formula above)	· · · · · · · · · · · · · · · · · · ·	
Weighted E = 1.15 in.	TREATMENT	
Off-Site Volume of Runoff (see formula above)	A = 0%	
V360 = 675 CF	B = 0%	
Off-Site Peak Discharge Rate: (see formula above)	C = 98%	•
Qp = 0.5 cfs	D = 2%	
*Existing Basin 3'flows currently exit site to the A.T. & S.F. Railroad R.O.W.	1	•
BASIN 1 - PROPOSED		
rom Site Topographic Survey:		· •
rea of Basin flows = 13905 SF	0.3 Ac. Precip. Zon	e 2
he following calculations are based on Treatment areas as shown in table to the right	 	
Off-Site Weighted Excess Precipitation (see formula above)		
Weighted E = 1.73 in.	TREATMENT	
Off-Site Volume of Runoff (see formula above)	A = 0%	
V360 = 2009 CF	B = 17%	
Off-Site Peak Discharge Rate: (see formula above) '	C = 16%	
$Qp = \frac{1.3 \text{ cfs}}{}$	D = 67%	
Proposed Basin 1 Flows to free discharge to 1st Street NW		<u></u>
BASIN 2 - PROPOSED		
om Site Topographic Survey:		•
rea of Basin flows = 26823 SF =	0.6 Ac. Precip. Zone	e
he following calculations are based on Treatment areas as shown in table to the right		<u> </u>
6 ************************************		
Off-Site Weighted Excess Precipitation (see formula above)		
Weighted E = 1.90 in.	TREATMENT	
Off-Site Volume of Runoff (see formula above)	A = 0%	
V360 = 4238 CF	B = 0%	
Off-Site Peak Discharge Rate: (see formula above)	C = 23%	
$Qp = \frac{2.7 \text{ cfs}}{}$	$D = \frac{23\%}{77\%}$	
Proposed Basin 2 flows to be collected in storm drain inlet and released through a 4" of		anal calca halarr
Poola paom 2 nomo to de concetta in otorni diam inici and icicasca unough à 4 (na. storm uram. See additt	mai caics. Delow
ROPOSED POND SIZE		
COPUSED PUND SIZE POND VOLUME CALC — AREA (SF) — VOLUME (CF)		

	<u>POND VOLUME (</u>	CALC	AREA (SF)	VOLUME (CF)		
Area of contour	4969.5		9865			
• 1	4969.0	=	3945	3453	Volume Provided:	
	4968.5		16	990	4443	

Flows will be released to 1st Street NW through 2 - 4" storm drains draining through a 1' wide sidewalk culvert. Pipe flow condition was checked by Orifice Equation and Cutters. Formula for circular pipes flowing full. The entrance controls the flowrate capacity at 0.5 cfs. Assuming a 30% clogging factor, the potential total flowrate = 0.7 cfs. See Inflow / Outflow Hydrograph for additional information.

Site Calculations-9-18-96

			BASIN 3 - PRO	DPOSED				
From Site Topographic	Survey:							
Area of Basin flows =	2393	SF		=	0.1 Ac.	Precip. Zone	2	
The following calculation	ons are based on Tre	eatmer	nt areas as shown in ta	ble to the right	t 1			
	Off-Site Weighted	Exces	s Precipitation (see fo	rmula above)			7	
	Weighted E	=	1.13 in.	, , , , , , , , , , , , , , , , , , ,	TREAT	MENT		
	Off-Site Volume of	of Run	off (see formula above	<u>e) </u>	A =	0%		
•	V360	=		CF	B =	0%		
	Off-Site Peak Disc	harge	Rate: (see formula ab	ove)	C =	100%		
	Qp	=		fs	D =	0%]	
**Proposed Basin 3 flov	vs to free discharge	to 1st						 ,
···		- 444 4 - 7 11 11 11 11 12 11 11 11 11 11 11 11 11	BASIN 4 - PRO	OPOSED			A. A. M.	
From Site Topographic	Survey:	··• ·	1		<u></u>			
Area of Basin flows =	9773	SF]	=	0.2 Ac.	Precip. Zone	2	3
The following calculation	ons are based on Tre	atmer	nt areas as shown in ta	ble to the right		•		
•	• 1	1.7	j					
			s Precipitation (see fo			,	1	
ł	Weighted E	-	1.84 in.		TREAT	MENT	-	
`		of Run	off (see formula above		A =	0%		
	V360			<u>F</u>	B =	21%		
	Off-Site Peak Disc	harge	Rate: (see formula abo		C =	0%		
	Qp	=		fs	D =	79%]	
**Proposed Basin 4 flov								
	D	ISCHA	RGE TO 1ST STREE	TNW - COMPA	RISON.			
Free discharge comparis	son:							
Existing:	<u></u>		Proposed					
Basin 1 only =	3.0	cfs	Basin 1	<u></u>	1.3 cfs			
•			Basin 2 (pipe)	=	0.7 cfs			
			Basin 3	<u> </u>	0.2 cfs		•	
			Basin 4	=	0.9 cfs			
			TOTAL		3.1 cfs			

HYDROGRAPH FOR SMALL WATERSHED DPM SECTION 22-2 * PAGE A-13/14

Base time, t_B, for a small watershed hydrograph is,

tB = (2.107 * E * AT / QP) - (0.25 * AD / AT)

Where

	/ (5:	
E	=	1.9 inches
Ат	· · 	0.62 acres
AT AD	=	0.48 acres
QP	=	2.7 cfs
•		

tB	=	0.73 hours

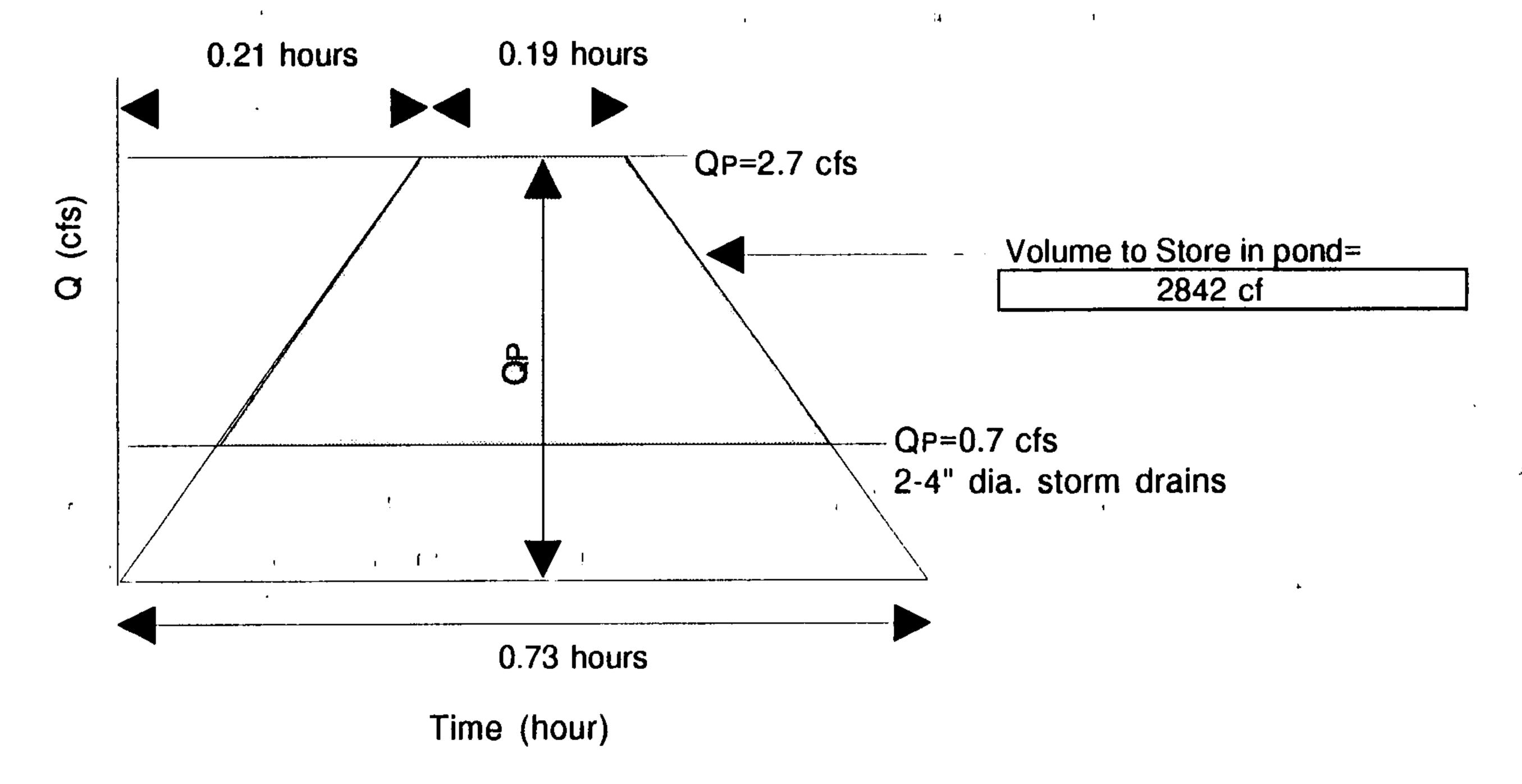
E is the excess precipitation in inches (from DPM TABLE A-8), QP is the peak flow, AD is the area in treatment D, and AT is the total area in acres. Using the time of concentration, to (hours), the time to peak in hours is:

tp =
$$(0.7 * tc) + ((1.6 - (AD / AT)) / 12)$$

Where tc = 0.20 hours

tp = 0.21 hours

Continue the peak for 0.25 * AP / AT hours. When AD is zero, the hydrograph will be triangular. When AD is not zero, the hyrograph will be trapezoidal. see the graph below:



INFLOW / OUTFLOW HYDROGRAPH



August 29, 1996

Martin J. Chávez, Mayor

Chris Weiss C.L. Weiss Engineering Inc. P.O. Box 97 Sandia Park, NM 87047

RE: DRAINAGE PLAN FOR FIRST STREET FACILITY HAUSMAN CORPORATION

(H14-D81) ENGINEER'S STAMP DATED 8/19/96.

Dear Mr. Weiss:

Based on the information provided on your August 20, 1996 submittal, the above referenced site is approved for Building Permit and S.O. 19.

Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

Also, a separate permit is required for construction within City Right-of-Way. A copy of this approval letter must be on hand when applying for the excavation permit.

Prior to Certificate of Occupancy release, Engineer Certification per the D.P.M. checklist will be required.

If I can be of further assistance, please feel free to contact me at 768-2667.

Sincerely,

Bernie J. Montoya, CE

Engineering Associate

BJM/dl

Andrew Garcia Arlene Portillo

-File---



June 7, 1996

Martin J. Chávez, Mayor

Chris Weiss
C.L. Weiss Engineering Inc.
P.O. Box 97
Sandia Park, NM 87047

RE: DRAINAGE PLAN FOR FIRST STREET FACILITY HAUSMAN CORPORATION (H14-D81) ENGINEER'S STAMP DATED 5/30/96.

Dear Mr. Weiss:

Based on the information provided on your June 3, 1996 submittal, the above referenced site is approved for Building Permit and S.O. 19.

Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

Also, a separate permit is required for construction within City Right-of-Way. A copy of this approval letter must be on hand when applying for the excavation permit.

Prior to Certificate of Occupancy release, Engineer Certification per the D.P.M. checklist will be required.

If I can be of further assistance, please feel free to contact me at 768-2667.

Sincerely,

Enne Montoya, CE

Engineering Associate

BJM/dl

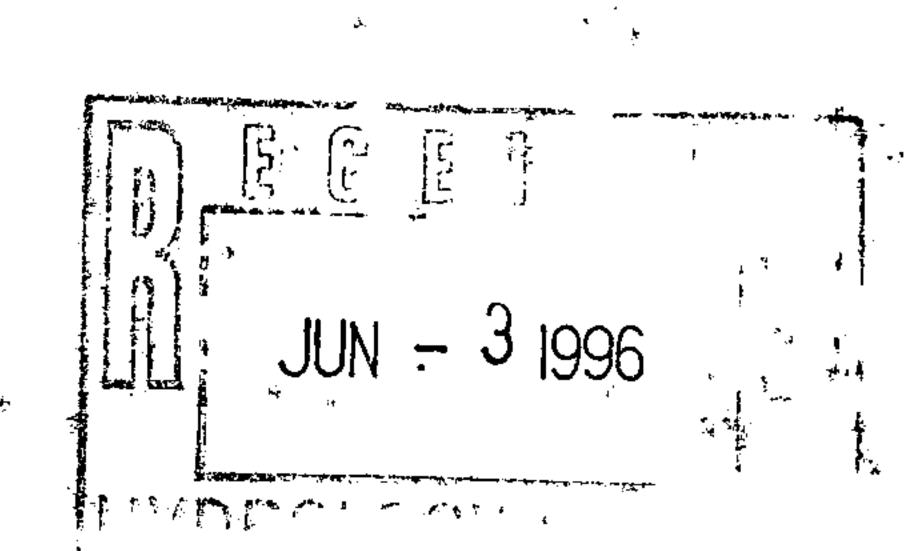
c: Andrew Garcia
Arlene Portillo
File

DRAINAGE INFORMATION SHEET

LEGAL DESCRIPTION: Lots 1-11, Block 12, Franciscan Add CITY ADDRESS: N/A	ition, Albuquerque, New Mexico
CITT ADDRESS. <u>IN/A</u>	
ENGINEERING FIRM: C.L. Weiss Engineering	CONTACT: Chris Weiss
ADDRESS: P.O. Box 97, Sandia Park NM, 87047	PHONE: <u>281-1800</u>
OWNER:	CONTACT:
ADDRESS:	PHONE:
ARCHITECT:	CONTACT:
ADDRESS:	
	PHONE:
SURVEYOR: Forstbauer Surveying Co.	CONTACT: Ron Forstbauer
ADDRESS: 1100 Alvarado Dr. NE - 87110	PHONE: 268-2112
CONTRACTOR FIRM: Dubay Construction	CONTACT:
* ADDŘESS:	PHONE: 8-17-4155
PRE-DESIGN MEETING:	
Y NO	DRB NO
X NO COPY OF CONFERENCE RECAP	EPC NO PROJ. NO.
* SHEET PROVIDED	* · · · · · · · · · · · · · · · · · · ·
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
* DRAINAGE REPORT	SKETCH PLAT
X DRAINAGE PLAN	PRELIMINARY PLAT
CONCEPTUAL GRADING & DRAINAGE PLAN	SITE DEVELOPMENT PLAN
X GRADING PLAN	FINAL*PLAT
EROSION CONTROL PLAN	X BUILDING PERMIT
ENGINEER'S CERTIFICATION	FOUNDATION PERMIT
	CERT. OF OCCUPANCY
• • • • • • • • • • • • • • • • • • •	ROUGH GRADING PERMIT
	GRADING / PAVING PERMIT
	OTHER
y	
DATE SUBMITTED: May 29, 1996	
BY: C.L. Weiss Engineering, Inc.	JUN - 3 1996

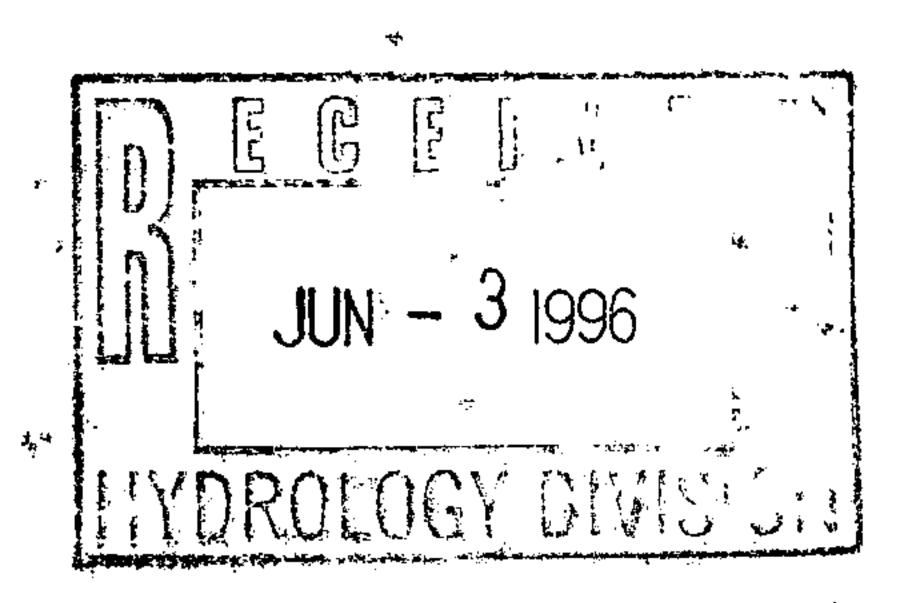
		. <u>.</u> .			•		
		CALCULA	ATIONS: X				
Calculations are based o	n the Drainage Design Ci	riteria for City of All	buquerque Sec	tion 22,2, DPM.	Vol 2, dated Jan.,	1993	and the second s
		ON-S	ITE				
AREA OF SITE:	*	54346	SF	= 1.25	Ac.	-	2
in the second se		<u> </u>	-			4	*
HISTORIC FLOWS:	ş. #	DEVELOPED FLO	WS:		EXCESS PRECIP	OITATIO	N:
On-Site Historic La	nd Condition	On-Site Develo	ped Land Con	dition	Precip. Zone		2
• Area a =	0 SF	Area a	=	0 SF	Ea =	0.53	
·· · Area b =	o SF	Area b	= +4	5435 SF	Eb =	0.78	
Area c =	32396 SF	- Area c	=	24207 SF	Ec =	1.13 .	
Area d =	21950 SF	Area d	= .	24704 SF	^r Ed =	2.12	_
Total Area =	54346 SF	Total Area	=	54346 SF			, and the second
	مني	in the second se	X.		•	•	_
On-Site Weighted Exces	ss Precipitation (100-Year						Mark State of State o
· ·	Weighted E =	EaAa + EbAb + EcA					
, <u>*</u>		Aa + Ab + Ac	: + Ad	❤	-		
Historic E =	1.53 in.	Developed E		1.55 in.		a a	
On-Site Volume of Run	· · · · · · · · · · · · · · · · · · ·	<u> </u>	—— <u>—</u> ——	-•	.		
Historic V360 =		Developed V360		6997 CF		L et	.⊅j. ik
	Rate: $Qp = QpaAa + Qpb$	Ab+QpcAc+QpdAc	d / 43,560				····
For Precipitation Zone	2						
	1.56	Qpc	= 3.14		4 5		
Qbb. =		* Qpd			1		
Historic Qp * =	4.7 CFS			4.7 CFS	j (1.0
	ase between the historic a				ndividual basin an	lalysis.	
		BASIN 1 - E	XISTING				
From Site Topographic	Survey:	- ,	<u>*</u>		· •		75.4
Area of Basin flows =	31050 SF		_ =	• 0.7 Ac.	Precip. Zone		2
_ ,	ns are based on Treatmer	` _	table to the rig	ght	is a second seco	, ,	
taken from the approved	d Drainage / Grading Plan	n (PWD-91-39)			•	\ -	ء اس
**************************************	3				* 6 **	نائ ^ي ة	.47
_	Off-Site Weighted Exces	s Precipitation (see	formula above	e)	· ; 	-	€, e
a	Weighted E =	1.55 i	· ************************************	TREA	TMENT	×	
No.	Off-Site Volume of Run		ve)	A =	0%		~
i i	V360 =	4004	CF	B =	0%		I ,
	Off-Site Peak Discharge	Rate: (see formula a	bove)	C =	0%		-
, , , , , , , , , , , , , , , , , , ,	$Qp = \frac{1}{2}$	2.4	cfs	D =	73%		
**Frieting Rasin 1 flows	currently exit the site to	1ct Stroot NIM	•				۹ ند.

**Existing Basin 1 flows currently exit the site to 1st Street NW



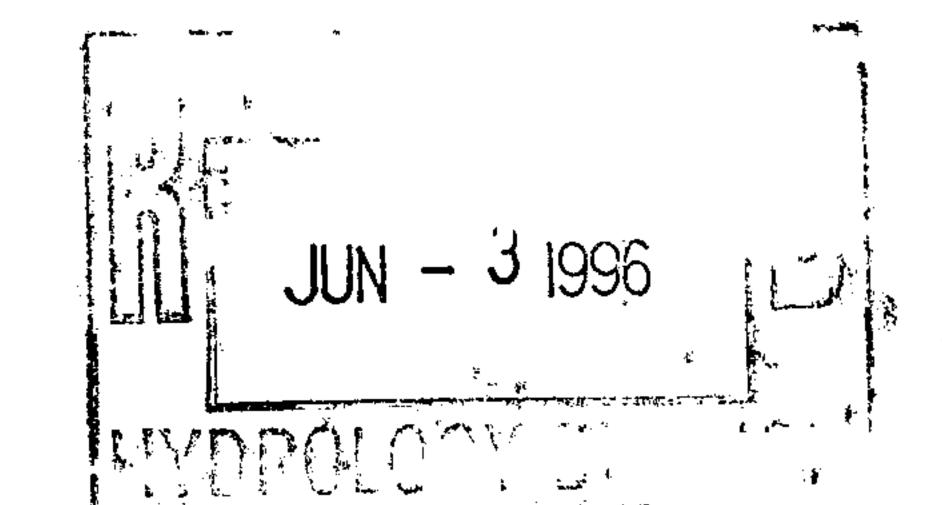
Site Calculations-Hausman

		BASIN 2 - EXIST	ING:///		
From Site Topographic	Survey:				
Area of Basin flows =	. 16248 SF	=	0.4	Ac. Precip. Zone	2
The following calculatio	ns are based on Treatmen	t areas as shown in table	to the right		
taken from the approved	d Drainage / Grading Plan	(PWD-91-39)	3		• •
					2 / -
- v	Off-Site Weighted Excess	Precipitation (see formu	ıla above)		1 ;
>+ ,, *	Weighted E =	1.13 in.		TREATMENT	•
· ;,	Off-Site Volume of Runo	off (see formula above)		A = 0%	
. 	V360 =	* 1530 CF		B = 0%	
÷	Off-Site Peak Discharge I	Rate: (see formula above)		C = 100%	•
ं स्के	Qp =	1.2 cfs		D = 0%	
**Existing Basin 2 flows	currently pond on site			•	• · · · · · · · · · · · · · · · · · · ·
		BASIN 3 - EXIST	NG .		
From Site Topographic	Survey:	· · · · · · · · · · · · · · · · · · ·			1 5 °
Area of Basin flows =	7048 SF	, = [0.2	Ac. Precip. Zone	2
The following calculation	ns are based on Treatmen	t areas as shown in table	to the right		**
taken from the approved	d Drainage / Grading Plan	(PWD-91-39)			. <mark>₩</mark> *
4. *	•	-			
	Off-Site Weighted Excess	Precipitation (see formu	ıla above)	April 1990	
~>	Weighted E =	1.15 in.		TREATMENT	
₹.	Off-Site Volume of Runo	ff (see formula above)		A = 0%	•₹
	V360 =	675 CF	-	B = 0%	· ,
	Off-Site Peak Discharge I	Rate: (see formula above)	ı.·	C = 98%	, #t,
₩ 1	Qp =	0.5 cfs		D = 2%	.r
**Existing Basin 3 flows	currently exit site to the A	.T. & S.F. Railroad R.O.V	N .	•	
		® BASIN 1 - PROPC	SED		
From Site Topographic	Survey:	**************************************	ill.	- :	9.
Area of Basin flows =	14167 SF	<u>=</u> 		Ac. Precip. Zone	2
The following calculatio	ns are based on Treatmen	t areas as shown in table	to the right	غر <u>.</u>	
taken from the approved	d Drainage / Grading Plan	(PWD-91-39)			S.
		1° .* .¢			
pt a	Off-Site Weighted Excess	Precipitation (see formu	ıla above)		
€.	Weighted E =	1.78 in.		TREATMENT	™ >:
· • • • • • • • • • • • • • • • • • • •	Off-Site Volume of Runo	ff (see formula above)	* ·•	A = 0%	-
	V360 =	× 2100 CF	٠, ٠	B = 7%	
*	Off-Site Peak Discharge I	Rate: (see formula above)		C = 25%	•
«·	Qp =	1.3 cfs	*\$	D = 68%	i.
**Proposed Basin 1 Flov	vs to free discharge to 1st S	Street NW	u ·		- is



Site Calculations-Hausman

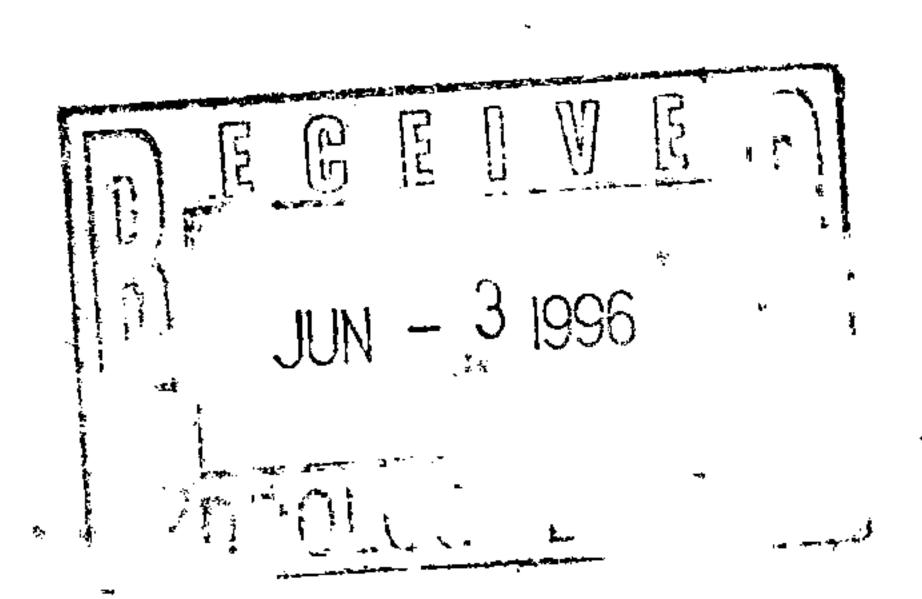
From Site Topographic Survey:	
Area of Basin flows = 27601 SF = 0.6 Ac. Precip. Zone	2
The following calculations are based on Treatment areas as shown in table to the right	si ÷
taken from the approved Drainage / Grading Plan (PWD-91-39)	
	k
Off-Site Weighted Excess Precipitation (see formula above)	
Weighted E = 1.39 in. TREATMENT	
Off-Site Volume of Runoff (see formula above) A = 0%	. r-
V360 = 3191 CF $B = 0%$	· •
Off-Site Peak Discharge Rate: (see formula above) C = 74%	
Qp = 2.2 cfs $D = 26%$	
**Proposed Basin 2 flows to be collected in storm drain inlet and released through a 4" dia. storm drain. See additional calcs.	haları
" Toposed basin 2 nows to be conjected in storm drain linet and released unough a 4 dia. Storm drain. See additional calcs.	below
PROPOSED POND SIZE	
POND VOLUME CALC AREA (SF) VOLUME (CF)	.
Area of Contour $\frac{1}{2}$ 4909.5. $=\frac{1}{2}$ 510/ $\frac{1}{2}$	<u></u>
	Req'd
4968.5 = 364 - 1028	3191 🖫
Flows will be released to 1st Street NW through a 4" storm drain. Capacity = 0.19 cfs. At this rate, the pond will empty within	12 hours.
BASIN 3 - PROPOSED	
From Site Topographic Survey:	
Area of Basin flows = 5145 SF = 0.1 Ac. Precip. Zone	2
The following calculations are based on Treatment areas as shown in table to the right	¥.
taken from the approved Drainage / Grading Plan (PWD-91-39)	
	· · · · · · · · · · · · · · · · · · ·
Off-Site Weighted Excess Precipitation (see formula above)	
Weighted E = 1.41 in. TREATMENT	÷
Off-Site Volume of Runoff (see formula above) A = 0%	نه الله المعرفي المعرفي الله الله الله المعرفي المعرفي
V360 = 603 CF	9.
Off-Site Peak Discharge Rate: (see formula above) C = 72%	
Qp = 0.4 cfs $D = 28%$	ر انگهای
**Proposed Basin 3 flows to free discharge to 1st St. NW	
From Site Topographic Survey:	<u> </u>
Area of Basin flows = 6542 SF = 0.2 Ac. Precip. Zone	2
The following calculations are based on Treatment areas as shown in table to the right	
taken from the approved Drainage / Grading Plan (PWD-91-39)	.
taken nom the approved Dramage / Oracing ram (r w D-91-39);	
	÷
Off-Site Weighted Excess Precipitation (see formula above)	
Off-Site Weighted Excess Precipitation (see formula above) Weighted E = 1.88 in. TREATMENT	
Off-Site Weighted Excess Precipitation (see formula above) Weighted E = 1.88 in. Off-Site Volume of Runoff (see formula above) TREATMENT A = 0%	
Off-Site Weighted Excess Precipitation (see formula above) Weighted E = 1.88 in. TREATMENT	
Off-Site Weighted Excess Precipitation (see formula above) Weighted E = 1.88 in. Off-Site Volume of Runoff (see formula above) A = 0%	
Off-Site Weighted Excess Precipitation (see formula above) Weighted E = 1.88 in. Off-Site Volume of Runoff (see formula above) V360 = 1024 CF TREATMENT A = 0% B = 18%	



Site Calculations-Hausman

:						(A) (4)	
		DISCH	ARGE TO IST STR	EETNW	-COMPARISON		
Free discharge com	parison:		i i		-	· · · · · · · · · · · · · · · · ·	
Existing:	, i Si	·	Proposed				#
Basin 1 only		2.4 cfs	Basin 1	=	1.3 cfs	<u>ب</u> رُح-	•
- · · · · · · · · · · · · · · · · · · ·	, u ·		Basin 2 (pipe)	=	0.2 cfs		
,-te	≁	*	Basin 3		0.4 cfs		,
			Basin 4		0.6 cfs	* 2 0 mg	•
			TOTAL	=	2.6 cfs] .	

Therefore, the increase in discharge rates is insignificant and will have a negligible affect on downstream facilities.

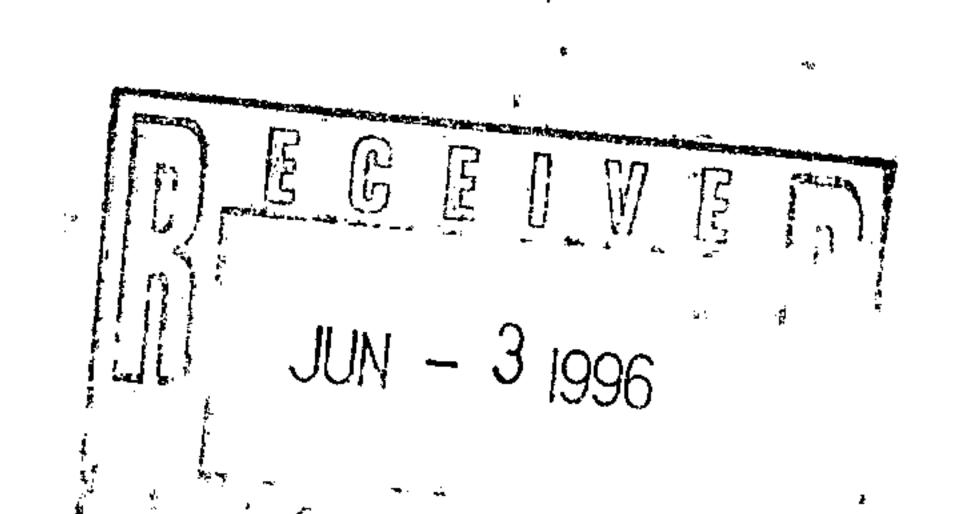


DuBay - Hausman Worksheet for Circular Channel

Project Description	n
Project File	c:\haestad\fmw\dubayhau.fm2
Worksheet	4" storm drain
Flow Element	Circular Channel
Method	Manning's Formula
Solve For	Discharge

Input Data	_ `	
Mannings Coefficient	0.010	
Channel Slope	0.006000	ft/ft
Depth	0.33	ft
Diameter	4.00	in

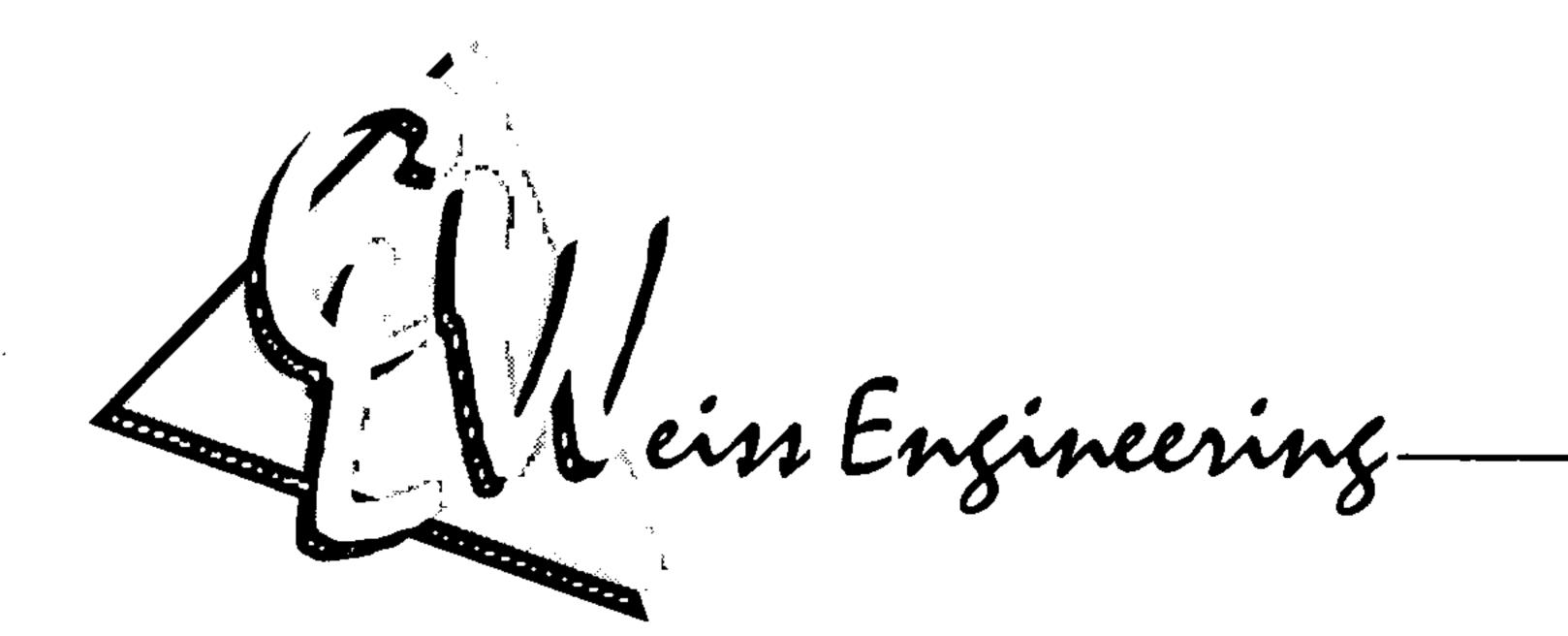
<u>. </u>		
Results	4 .	
Discharge	0.19	cfs
Flow Area	0.09	ft²
Wetted Perimeter	1.05	, ft
Top Width	0.00	ft
Critical Depth	0.25	ft ·
Percent Full	100.00	
Critical Slope	0.0074	23 ft/ft
Velocity	2.20	ft/s
Velocity Head	0.07	ft
Specific Energy	FULL	ft
Froude Number	FULL	
Maximum Discharge	0.21	cfs
Full Flow Capacity	0.19	cfs
Full Flow Slope	0.0060	00 ft/ft



Page 1.of 1

DRAINAGE INFORMATION SHEET

PROJECT TITLE: First Street Facility Hausman Corporation	ZONE ATLAS / DRNG. FILE #: H-14/4
LEGAL DESCRIPTION: Lots 1-11, Block 12, Franciscan Additi	on, Albuquerque, New Mexico
CITY ADDRESS: N/A	. P3
ENGINEERING FIRM: C.L. Weiss Engineering	CONTACT: Chris Weiss
ADDRESS: P.O. Box 97, Sandia Park NM, 87047	PHONE: <u>281-1800</u>
OWNER:	CONTACT:
ADDRESS:	PHONE:
ARCHITECT:	CONTACT:
* ADDRESS:	PHONE:
SURVEYOR: Forstbauer Surveying Co.	CONTACT: Ron Forstbauer
ADDRESS: 1100 Alvarado Dr. NE - 87110	PHONE: 268-2112
CONTRACTOR FIRM:	CONTACT:
ADDRESS:	PHONE:
PRE-DESIGN MEETING:	غان غان
YES	DRB NO
X NO	EPC NO
COPY OF CONFERENCE RECAP SHEET PROVIDED	PROJ. NO
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
DRAINAGE REPORT	SKETCH PLAT
X DRAINAGE PLAN	PRELIMINARY PLAT
CONCEPTUAL GRADING & DRAINAGE PLAN	SITÉ DEVELOPMENT PLAN
X GRADING PLAN	*FINAL PLAT
EROSION CONTROL PLAN	* <u>* X BUILDING PERMIT</u>
ENGINEER'S CERTIFICATION	FOUNDATION PERMIT
	CERT. OF OCCUPANCY
. **	ROUGH GRADING PERMIT
	GRADING / PAVING PERMIT
sì	OTHER
DATE SUBMITTED: August 19, 1996 - RESUBMITTAL	ALIG 2 0 1000
BY: C.I. Weiss Engineering Inc	



Phone / Fax (505) 281-1800 Alvarado Office (505) 266-3444

August 19, 1996

Bernie J. Montoya, CE Engineering Associate City of Albuquerque P.O. Box 1293 Albuquerque, New Mexico 87103

RE:

DRAINAGE RESUBMITTAL FOR FIRST STREET FACILITY HAUSMAN CORPORATION (H14-D81) ENGINEER'S STAMP DATED 8/19/96

Dear Mr. Montoya:

Enclosed with this letter are two copies of the revised DG Plan for the above mentioned project. You previously approved this project in your letter dated June 7, 1996. Since that time, the site plan has changed considerably and a new DG Plan was required.

The major change was a large increase in the amount of impermeable pavement. This change required us to recalculate the proposed basins and pond design in order to maintain an historical discharge rate to First Street NW.

Please don't hesitate to call me at 266-3444 or Chris Weiss, Project Engineer at 281-1800 if you have any questions, comments or concerns.

Sincerely,

Bryan J. Bobrick, Project Manager

C.L. Weiss Engineering. Inc.

::reviewed and approved by C.L. Weiss, P.E.

Principle Engineer

HYDROGRAPH FOR SMALL WATERSHED DPM SECTION 22-2 PAGE A-13/14

Base time, t_B, for a small watershed hydrograph is,

tB = (2.107 * E * AT / QP) - (0.25 * AD / AT)

Where

711 / G(I	(0.23	AD / AT /
E	=	1.86 inches
Ат	=	0.61 acres
E AT AD QP	=	0.45 acres
QP	=	2.6 cfs

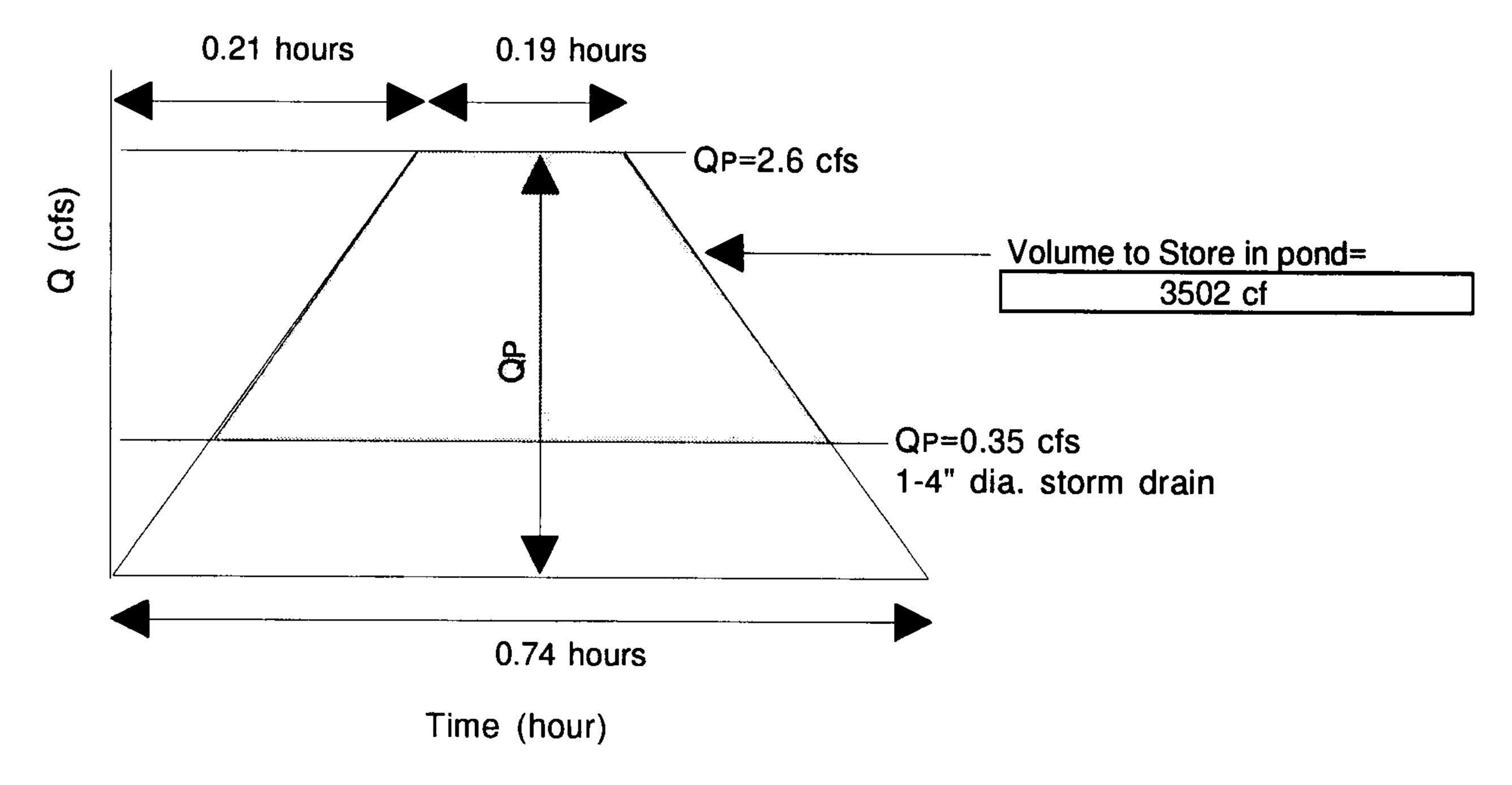
		
tв		0.74 hours

E is the excess precipitation in inches (from DPM TABLE A-8), QP is the peak flow, AD is the area in treatment D, and AT is the total area in acres. Using the time of concentration, to (hours), the time to peak in hours is:

tP =
$$(0.7 * tc) + ((1.6 - (AD / AT)) / 12)$$

Where tc = 0.20 hours
tP = 0.21 hours

Continue the peak for 0.25 * AP / AT hours. When AD is zero, the hydrograph will be triangular. When AD is not zero, the hyrograph will be trapezoidal. see the graph below:



INFLOW / OUTFLOW HYDROGRAPH

	· · · · · · · · · · · · · · · · · · ·	CALCULATIO				
Calculations are based o	n the Drainage Design Ci	riteria for City of Albuq	uerque Section	on 22.2, DPN	1, Vol 2, dated Jan.,	1993
		ON-SITE				
AREA OF SITE:		54346 SF		= 1.25	Ac.	**************************************
HISTORIC FLOWS:		DEVELOPED FLOWS	•		EXCESS PRECIP	ITATION.
On-Site Historic La	nd Condition	On-Site Developed		tion	Precip. Zone	2
Area a =	0 SF	1 · · · · · · · · · · · · · · · · · · ·	Land Condi	· · · · · · · · · · · · · · · · · · ·	¬	0.52
Area b =	0 SF			0 SF		
		Area b =		3160 SF		
Area c =	32396 SF	Area $c =$		13186 SF		
Area d =	21950 SF	Area d =	ļ	38000 SF	\perp Ed =	2.12
Total Area =	54346 SF	Total Area =	<u></u>	54346 SF		
No. C'4 - 347 - ' - 1-4 - 1 F	D ' ' ' (100 T	~ TT				
In-Site Weighted Exces	s Precipitation (100-Year	•				
	Weighted E =	EaAa + EbAb + EcAc +				
· · · · · · · · · · · · · · · · · · ·		Aa + Ab + Ac + A	\d			
Historic E =	1.53 in.	Developed E =		1.80 in.		
On-Site Volume of Run	off: $V360 = E*A/1$	2				
Historic V360 =	6928 CF	Developed V360 =		8160 CF		
On-Site Peak Discharge	Rate: Qp = QpaAa+Qpb		3,560			
or Precipitation Zone			- ,			
Qpa =	1.56	Qpc =	3.14			
Qbb =	2.28					
		Qpd =	4.70	5 A CITIC		
Historic Qp =	4.7 CFS	Developed Qp =		5.2 CFS		
See below for individual	basin analysis.				· · · · · · · · · · · · · · · · · · ·	
	7,00,000000000000000000000000000000000	BASIN 1 - EXIS	TING			
From Site Topographic	Survey:					
Area of Basin flows =	31050 SF	=		0.7 Ac.	Precip. Zone	2
The following calculatio	ns are based on Treatmer	it areas as shown in tabl	e to the right		I	-
raken trom the annroved	1 Drainage / Grading Plan		e to the right			
taken from the approved	d Drainage / Grading Plan		e to the right			
taken from the approved		n (PWD-91-39)				
taken from the approved	Off-Site Weighted Exces	n (PWD-91-39) s Precipitation (see forn				
taken from the approved	Off-Site Weighted Exces Weighted E =	n (PWD-91-39) s Precipitation (see form 1.85 in.			ATMENT	
taken from the approved	Off-Site Weighted Exces	n (PWD-91-39) s Precipitation (see form 1.85 in.			00/	
taken from the approved	Off-Site Weighted Exces Weighted E =	n (PWD-91-39) s Precipitation (see form 1.85 in.		TRE	= 0%	
taken from the approved	Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune	s Precipitation (see forn 1.85 in. off (see formula above) 4794 CF	nula above)	TRE.	= 0% = 0%	
taken from the approved	Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 =	s Precipitation (see form 1.85 in. off (see formula above) 4794 CF Rate: (see formula abov	nula above)	TREA A = B = C =	= 0% = 0% = 27%	
	Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp =	s Precipitation (see form 1.85 in. off (see formula above) 4794 CF Rate: (see formula abov 3.0 cfs	nula above)	TRE. A = B =	= 0% = 0% = 27%	
	Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 =	s Precipitation (see form 1.85 in. off (see formula above) 4794 CF Rate: (see formula abov 3.0 cfs lst Street NW	nula above)	TREA A = B = C =	= 0% = 0% = 27%	
**Existing Basin 1 flows	Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp = currently exit the site to	s Precipitation (see form 1.85 in. off (see formula above) 4794 CF Rate: (see formula abov 3.0 cfs	nula above)	TREA A = B = C =	= 0% = 0% = 27%	
**Existing Basin 1 flows	Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp = currently exit the site to	s Precipitation (see form 1.85 in. off (see formula above) 4794 CF Rate: (see formula abov 3.0 cfs lst Street NW	nula above)	TRE. A = B = C = D =	= 0% = 27% = 73%	
**Existing Basin 1 flows From Site Topographic Strea of Basin flows =	Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp = currently exit the site to Survey: 16248 SF	s Precipitation (see form 1.85 in. off (see formula above) 4794 CF Rate: (see formula abov 3.0 cfs lst Street NW BASIN 2 - EXIS	nula above)	TRE. A = B = C = D =	= 0% = 0% = 27% = 73%	2
**Existing Basin 1 flows From Site Topographic S Area of Basin flows = The following calculatio	Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp = currently exit the site to Survey: 16248 SF ns are based on Treatment	s Precipitation (see form 1.85 in. off (see formula above) 4794 CF Rate: (see formula abov 3.0 cfs Ist Street NW BASIN 2 - EXIS et areas as shown in table	nula above)	TRE. A = B = C = D =	= 0% = 27% = 73%	2
**Existing Basin 1 flows From Site Topographic S Area of Basin flows = The following calculatio	Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp = currently exit the site to Survey: 16248 SF	s Precipitation (see form 1.85 in. off (see formula above) 4794 CF Rate: (see formula abov 3.0 cfs Ist Street NW BASIN 2 - EXIS et areas as shown in table	nula above)	TRE. A = B = C = D =	= 0% = 27% = 73%	2
**Existing Basin 1 flows From Site Topographic S Area of Basin flows = The following calculatio	Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp = currently exit the site to Survey: 16248 SF ns are based on Treatment I Drainage / Grading Plane	s Precipitation (see form 1.85 in. off (see formula above) 4794 CF Rate: (see formula abov 3.0 cfs Ist Street NW BASIN 2 - EXIS ent areas as shown in table (PWD-91-39)	nula above) e) e) ting	TRE. A = B = C = D =	= 0% = 27% = 73%	2
**Existing Basin 1 flows From Site Topographic S Area of Basin flows = The following calculatio	Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp = currently exit the site to Survey: 16248 SF ns are based on Treatment	s Precipitation (see form 1.85 in. off (see formula above) 4794 CF Rate: (see formula abov 3.0 cfs Ist Street NW BASIN 2 - EXIS ent areas as shown in table (PWD-91-39)	nula above) e) e) ting	TRE. A = B = C = D =	= 0% = 27% = 73%	2
**Existing Basin 1 flows From Site Topographic S Area of Basin flows = The following calculatio	Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp = currently exit the site to Survey: 16248 SF ns are based on Treatment I Drainage / Grading Plane	s Precipitation (see form 1.85 in. off (see formula above) 4794 CF Rate: (see formula abov 3.0 cfs Ist Street NW BASIN 2 - EXIS ent areas as shown in table (PWD-91-39)	nula above) e) e) ting	TRE. A = B = C = D =	= 0% = 27% = 73%	2
From Site Topographic Area of Basin flows The following calculatio	Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp = currently exit the site to 1 Survey: 16248 SF ns are based on Treatment Drainage / Grading Plant Off-Site Weighted Exces Weighted E =	s Precipitation (see form 1.85 in. off (see formula above) 4794 CF Rate: (see formula abov 3.0 cfs Ist Street NW BASIN 2 - EXIS ent areas as shown in table (PWD-91-39) s Precipitation (see form 1.13 in.	nula above) e) e) ting	TRE. A = B = C = D =	= 0% = 27% = 73% Precip. Zone ATMENT	2
**Existing Basin 1 flows From Site Topographic S Area of Basin flows = The following calculatio	Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp = currently exit the site to 1 Survey: 16248 SF ns are based on Treatment Drainage / Grading Plan Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune	s Precipitation (see form 1.85 in. off (see formula above) 4794 CF Rate: (see formula above) 3.0 cfs Ist Street NW BASIN 2 - EXIS ent areas as shown in table (PWD-91-39) s Precipitation (see form 1.13 in. off (see formula above)	nula above) e) e) ting	TREA B = C = D =	= 0% = 27% = 73% Precip. Zone ATMENT = 0%	2
From Site Topographic Area of Basin flows The following calculatio	Off-Site Weighted Exces Weighted E = Off-Site Volume of Runce V360 = Off-Site Peak Discharge Qp = currently exit the site to 1 Survey: 16248 SF ns are based on Treatment of Drainage / Grading Plant Off-Site Weighted Exces Weighted E = Off-Site Volume of Runce V360 =	s Precipitation (see form 1.85 in. off (see formula above) 4794 CF Rate: (see formula above) 3.0 cfs Ist Street NW BASIN 2 - EXIS = at areas as shown in table (PWD-91-39) s Precipitation (see form 1.13 in. off (see formula above) 1530 CF	nula above) TING ula above)	TRE. A = B = C = D =	= 0% = 27% = 73% Precip. Zone ATMENT = 0% = 0% = 0%	2
F*Existing Basin 1 flows From Site Topographic forms Area of Basin flows = The following calculatio	Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp = currently exit the site to 1 Survey: 16248 SF ns are based on Treatment Drainage / Grading Plan Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune	s Precipitation (see form 1.85 in. off (see formula above) 4794 CF Rate: (see formula abov 3.0 cfs Ist Street NW BASIN 2 - EXIS = nt areas as shown in table n (PWD-91-39) s Precipitation (see form 1.13 in. off (see formula above) 1530 CF Rate: (see formula above)	nula above) TING ula above)	TRE. A = B = C = D =	= 0% = 27% = 73% Precip. Zone ATMENT = 0% = 0% = 0% = 100%	2
From Site Topographic Area of Basin flows = The following calculationaken from the approved	Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp = currently exit the site to 1 Survey: 16248 SF ns are based on Treatment I Drainage / Grading Plant Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp =	s Precipitation (see form 1.85 in. off (see formula above) 4794 CF Rate: (see formula above) 3.0 cfs Ist Street NW BASIN 2 - EXIS = at areas as shown in table (PWD-91-39) s Precipitation (see form 1.13 in. off (see formula above) 1530 CF	nula above) TING ula above)	TRE. A = B = C = D =	= 0% = 27% = 73% Precip. Zone ATMENT = 0% = 0% = 0% = 100%	2
From Site Topographic Area of Basin flows The following calculation the approved	Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp = currently exit the site to 1 Survey: 16248 SF ns are based on Treatment I Drainage / Grading Plant Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp =	s Precipitation (see form 1.85 in. off (see formula above) 4794 CF Rate: (see formula abov 3.0 cfs Ist Street NW BASIN 2 - EXIS = at areas as shown in table (PWD-91-39) s Precipitation (see form 1.13 in. off (see formula above) 1530 CF Rate: (see formula above) 1.2 cfs	TING ula above) to the right ula above)	TRE. A = B = C = D =	= 0% = 27% = 73% Precip. Zone ATMENT = 0% = 0% = 0% = 100%	2
From Site Topographic Area of Basin flows The following calculation the approved	Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp = currently exit the site to 1 Survey: 16248 SF ns are based on Treatment I Drainage / Grading Plant Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp =	s Precipitation (see form 1.85 in. off (see formula above) 4794 CF Rate: (see formula abov 3.0 cfs Ist Street NW BASIN 2 - EXIS = nt areas as shown in table n (PWD-91-39) s Precipitation (see form 1.13 in. off (see formula above) 1530 CF Rate: (see formula above)	TING ula above) to the right ula above)	TRE. A = B = C = D =	= 0% = 27% = 73% Precip. Zone ATMENT = 0% = 0% = 0% = 100%	2
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*Existing Basin 1 flows From Site Topographic Area of Basin flows = The following calculation aken from the approved aken from the approved the second states as a second	Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp = currently exit the site to I Survey: 16248 SF ns are based on Treatment I Drainage / Grading Plant Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp = currently pond on site	s Precipitation (see form 1.85 in. off (see formula above) 4794 CF Rate: (see formula abov 3.0 cfs Ist Street NW BASIN 2 - EXIS = at areas as shown in table (PWD-91-39) s Precipitation (see form 1.13 in. off (see formula above) 1530 CF Rate: (see formula above) 1.2 cfs	TING ula above) to the right ula above)	TRE. A = B = C = D = TRE. A = B = C = D =	= 0% = 0% = 27% = 73% Precip. Zone ATMENT = 0% = 0% = 0% = 0% = 0% = 0%	2
*Existing Basin 1 flows From Site Topographic Area of Basin flows = The following calculation aken from the approved aken from Site Topographic Area of Basin flows =	Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp = currently exit the site to 1 Survey: 16248 SF ns are based on Treatment I Drainage / Grading Plant Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp = currently pond on site Survey: 7048 SF	s Precipitation (see form 1.85 in. off (see formula above) 4794 CF Rate: (see formula abov 3.0 cfs Ist Street NW BASIN 2 - EXIS = nt areas as shown in table (PWD-91-39) s Precipitation (see form 1.13 in. off (see formula above) 1530 CF Rate: (see formula abov 1.2 cfs BASIN 3 - EXIS	TING TING TING TING	TRE A = B = C = D = O.4 Ac. TRE A = B = C = D =	= 0% = 27% = 73% Precip. Zone ATMENT = 0% = 0% = 0% = 100%	2
*Existing Basin 1 flows Area of Basin flows = The following calculation aken from the approved aken from Site Topographic form Site	Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp = currently exit the site to 1 Survey: 16248 SF ns are based on Treatment I Drainage / Grading Plant Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp = currently pond on site Survey: 7048 SF ns are based on Treatment	s Precipitation (see form 1.85 in. off (see formula above) 4794 CF Rate: (see formula abov 3.0 cfs Ist Street NW BASIN 2 - EXIS = nt areas as shown in table (PWD-91-39) s Precipitation (see form 1.13 in. off (see formula above) 1530 CF Rate: (see formula above) 1530 CF Rate: (see formula above) 1.2 cfs BASIN 3 - EXIS = nt areas as shown in table and areas as shown in table	TING TING TING TING	TRE A = B = C = D = O.4 Ac. TRE A = B = C = D =	= 0% = 0% = 27% = 73% Precip. Zone ATMENT = 0% = 0% = 0% = 0% = 0% = 0%	2
**Existing Basin 1 flows From Site Topographic S Area of Basin flows = The following calculation taken from the approved states are a flows area of Basin flows = The following calculation the following calculations is a flown as a flown area of Basin flows are a flown as a flown area of Basin flows area of Basin flows are a flown as a flown area of Basin flows are a flown area.	Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp = currently exit the site to 1 Survey: 16248 SF ns are based on Treatment I Drainage / Grading Plant Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp = currently pond on site Survey: 7048 SF	s Precipitation (see form 1.85 in. off (see formula above) 4794 CF Rate: (see formula abov 3.0 cfs Ist Street NW BASIN 2 - EXIS = nt areas as shown in table (PWD-91-39) s Precipitation (see form 1.13 in. off (see formula above) 1530 CF Rate: (see formula above) 1530 CF Rate: (see formula above) 1.2 cfs BASIN 3 - EXIS = nt areas as shown in table and areas as shown in table	TING TING TING TING	TRE A = B = C = D = O.4 Ac. TRE A = B = C = D =	= 0% = 0% = 27% = 73% Precip. Zone ATMENT = 0% = 0% = 0% = 0% = 0% = 0%	2
**Existing Basin 1 flows From Site Topographic S Area of Basin flows = The following calculation taken from the approved states are a flows area of Basin flows = The following calculation the following calculations is a flown as a flown area of Basin flows are a flown as a flown area of Basin flows area of Basin flows are a flown as a flown area of Basin flows are a flown area.	Off-Site Weighted Exces Weighted E = Off-Site Volume of Rund V360 = Off-Site Peak Discharge Qp = currently exit the site to 1 Survey: 16248 SF ns are based on Treatment Drainage / Grading Plant Off-Site Weighted Exces Weighted E = Off-Site Volume of Rund V360 = Off-Site Peak Discharge Qp = currently pond on site Survey: 7048 SF ns are based on Treatment Drainage / Grading Plant Off-Site Peak Discharge Qp = currently pond on site	s Precipitation (see form 1.85 in. off (see formula above) 4794 CF Rate: (see formula abov 3.0 cfs Ist Street NW BASIN 2 - EXIS = nt areas as shown in table (PWD-91-39) s Precipitation (see form 1.13 in. off (see formula above) 1530 CF Rate: (see formula above) 1530 CF Rate: (see formula above) 1.2 cfs BASIN 3 - EXIS = nt areas as shown in table (PWD-91-39)	TING TING TING TING TING TING TING	TRE A = B = C = D = O.4 Ac. TRE A = B = C = D =	= 0% = 0% = 27% = 73% Precip. Zone ATMENT = 0% = 0% = 0% = 0% = 0% = 0%	2
**Existing Basin 1 flows From Site Topographic S Area of Basin flows = The following calculation taken from the approved states are a flows area of Basin flows = The following calculation the following calculations is a flown as a flown area of Basin flows are a flown as a flown area of Basin flows area of Basin flows are a flown as a flown area of Basin flows are a flown area.	Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp = currently exit the site to I Survey: 16248 SF ns are based on Treatment Drainage / Grading Plane Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp = currently pond on site Survey: 7048 SF ns are based on Treatment I Drainage / Grading Plane Off-Site Weighted Exces Off-Site Volume of Rune Qp = currently pond on site	s Precipitation (see form 1.85 in. off (see formula above) 4794 CF Rate: (see formula abov 3.0 cfs Ist Street NW BASIN 2 - EXIS = at areas as shown in table at (PWD-91-39) s Precipitation (see formula above) 1530 CF Rate: (see formula above) 1530 CF Rate: (see formula above) 1.2 cfs BASIN 3 - EXIS = at areas as shown in table at (PWD-91-39) s Precipitation (see formula above) 1.2 cfs	TING TING TING TING TING TING TING	TRE A = B = C = D = O.4 Ac. t TRE A = B = C = D =	= 0% = 07% = 27% = 73% Precip. Zone ATMENT = 0% = 0% = 100% = 0% Precip. Zone Precip. Zone	2
**Existing Basin 1 flows From Site Topographic S Area of Basin flows = The following calculation the approved staken from the approved series of Basin flows = The following calculation the following calculations is a series of Basin flows and the following calculations is a series of Basin flows and the following calculations is a series of Basin flows and the following calculations is a series of Basin flows and the following calculations is a series of Basin flows and the following calculations is a series of Basin flows and the following calculations is a series of Basin flows and the following calculations is a series of Basin flows and the following calculations is a series of Basin flows and the following calculations is a series of Basin flows and the following calculations is a series of Basin flows and the following calculations is a series of Basin flows and the following calculations is a series of Basin flows and the following calculations is a series of Basin flows and the following calculations is a series of Basin flows and the following calculations is a series of Basin flows and the following calculations is a series of Basin flows and the following calculations is a series of Basin flows and the following calculations is a series of Basin flows and the following calculations is a series of Basin flows are series of Basin flows and the following calculations is a series of Basin flows and the following calculations are series of Basin flows and the following calculations are series of Basin flows and the flows are series of Basin flows are series of Basin flows and the flows are series of Basin flows and the flows are series of Basin flows and the flows are series of Basin flows are s	Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp = currently exit the site to be survey: 16248 SF ns are based on Treatment Drainage / Grading Plane Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp = currently pond on site Survey: 7048 SF ns are based on Treatment Drainage / Grading Plane Off-Site Weighted Exces Weighted E = Off-Site Weighted Exces Weighted Exces Weighted Exces	s Precipitation (see form 1.85 in. off (see formula above) 4794 CF Rate: (see formula above) 3.0 cfs Ist Street NW BASIN 2 - EXIS = nt areas as shown in table (PWD-91-39) s Precipitation (see form 1.13 in. off (see formula above) 1530 CF Rate: (see formula above) 1530 CF Rate: (see formula above) 1.2 cfs BASIN 3 - EXIS = nt areas as shown in table (PWD-91-39) s Precipitation (see formula above) 1.15 in.	TING TING TING TING TING TING TING	TRE A = B = C = D = O.4 Ac. t TRE A = B = C = D =	= 0% = 0% = 27% = 73% Precip. Zone ATMENT = 0% = 0% = 0% = 0% = 0% = 0%	2
From Site Topographic Strea of Basin flows = The following calculation taken from the approved stream of Basin flows = The following calculation flows = The following calculation flows =	Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp = currently exit the site to I Survey: 16248 SF ns are based on Treatment Drainage / Grading Plane Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp = currently pond on site Survey: 7048 SF ns are based on Treatment I Drainage / Grading Plane Off-Site Weighted Exces Off-Site Volume of Rune Qp = currently pond on site	s Precipitation (see form 1.85 in. off (see formula above) 4794 CF Rate: (see formula above) 3.0 cfs Ist Street NW BASIN 2 - EXIS = nt areas as shown in table (PWD-91-39) s Precipitation (see form 1.13 in. off (see formula above) 1530 CF Rate: (see formula above) 1530 CF Rate: (see formula above) 1.2 cfs BASIN 3 - EXIS = nt areas as shown in table (PWD-91-39) s Precipitation (see formula above) 1.15 in.	TING TING TING TING TING TING TING	TRE A = B = C = D = O.4 Ac. t TRE A = B = C = D =	= 0% = 07% = 27% = 73% Precip. Zone ATMENT = 0% = 0% = 00% = 00% = 100% = 0% Precip. Zone	2
*Existing Basin 1 flows Area of Basin flows = The following calculation aken from the approved aken from Site Topographic form Site	Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp = currently exit the site to be survey: 16248 SF ns are based on Treatment Drainage / Grading Plane Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp = currently pond on site Survey: 7048 SF ns are based on Treatment Drainage / Grading Plane Off-Site Weighted Exces Weighted E = Off-Site Weighted Exces Weighted Exces Weighted Exces	s Precipitation (see form 1.85 in. off (see formula above) 4794 CF Rate: (see formula above) 3.0 cfs Ist Street NW BASIN 2 - EXIS = nt areas as shown in table (PWD-91-39) s Precipitation (see form 1.13 in. off (see formula above) 1530 CF Rate: (see formula above) 1530 CF Rate: (see formula above) 1.2 cfs BASIN 3 - EXIS = nt areas as shown in table (PWD-91-39) s Precipitation (see formula above) 1.15 in.	TING TING TING TING TING TING TING	TRE. A = B = C = D = O.4 Ac. t TRE. A = B = C = D =	= 0% = 07% = 27% = 73% Precip. Zone ATMENT = 0% = 0% = 100% = 0% Precip. Zone ATMENT = 0%	2
*Existing Basin 1 flows From Site Topographic Strea of Basin flows = The following calculation aken from the approved stream of Basin flows = The following calculation flows = The following calculations is a second stream of Basin flows =	Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp = currently exit the site to I Survey: 16248 SF ns are based on Treatment I Drainage / Grading Plant Off-Site Weighted Exces Weighted E = Off-Site Volume of Rune V360 = Off-Site Peak Discharge Qp = currently pond on site Survey: 7048 SF ns are based on Treatment I Drainage / Grading Plant Off-Site Weighted Exces Weighted E = Off-Site Weighted Exces Weighted E = Off-Site Weighted Exces Weighted E = Off-Site Weighted Exces	s Precipitation (see form 1.85 in. off (see formula above) 4794 CF Rate: (see formula above) 3.0 cfs Ist Street NW BASIN 2 - EXIS = nt areas as shown in table (PWD-91-39) s Precipitation (see formula above) 1530 CF Rate: (see formula above) 1530 CF Rate: (see formula above) 1.2 cfs BASIN 3 - EXIS = nt areas as shown in table (PWD-91-39) s Precipitation (see formula above) 1.15 in. off (see formula above) 675 CF	rula above) TING TING TING TING TING TURE TURE	TRE A = B = C = D = O.4 Ac. TRE A = B = C = D =	= 0% = 27% = 73% Precip. Zone ATMENT = 0% = 0% = 100% = 0% Precip. Zone ATMENT = 0%	

2 0 1995

**Existing Basin 3 flows currently exit site to the A.T. & S.F. Railroad R.O.W.

	······································	BASIN 1 - PROPO		· · · · · · · · · · · · · · · · · · ·	į
From Site Topographic	Survey:	WEWLIN 1 - FRUITU			
Area of Basin flows =	14039 SF	_ [0.3 Ac.	Precip. Zone	<u> </u>
		nt areas as shown in table t		r recip. Zone	
	Off-Site Weighted Exces	s Precipitation (see formu	la above)		
	Weighted E =	1.74 in.	TREAT	TMENT	
	Off-Site Volume of Run	off (see formula above)	A =	0%	
	V360 =	2038 CF	B =	14%	
	Off-Site Peak Discharge	Rate: (see formula above)	C =	19%	•
	Qp =	1.3 cfs	D =	67%	
**Proposed Basin 1 Flov	ws to free discharge to 1st			·· <u>-</u>	
	xx.xxxx	BASIN 2 - PROPO	SED *		
From Site Topographic		7		•	
Area of Basin flows =	26650 SF] = [0.6 Ac.	Precip. Zone	2
The following calculation	ons are based on Treatmen	nt areas as shown in table t	to the right		
	O.C. C'. TAT ! 1 . 1 D	D			
		s Precipitation (see formu			
	Weighted E =	1.86 in.		<u>IMENT</u>	
	Off-Site Volume of Run		A =	0%	
	Off Site Peels Discharge	Data: (acc formula chara)	$\mathbf{B} =$	0%	
	On-Site Peak Discharge	Rate: (see formula above)		26%	•
**Proposed Basin 2 flow	vs to be collected in storm	drain inlet and released t	D =	74%	aalaa balaa
1 Toposed Dasin 2 nov	vs to be concetted in storm	diami illict and reseased th	mough a 4 dia. Storm dra	am. See additional	caics. below
PROPOSED POND SIZ	ZE				
	POND VOLUME CALO	AREA (SF) VOLU	ME (CF)		
Area of contour	• • • • • • • • • • • • • • • • • • • •	9606			
	4969.0 =	2860 3117	Volume Prov	rided:	
	4968.5 =	10 718	3834	 	
Flows will be released to	1st Street NW through a	4" storm drains. Capacity	= 0.35 cfs each.		
See Inflow / Outflow Hy	drograph for additional i	nformation.			
		BASIN 3 - PROPO	SED		:
From Site Topographic	Survey:				
Area of Basin flows =	6022 SF] = [0.1 Ac.	Precip. Zone	2
The following calculation	ons are based on Treatmen	nt areas as shown in table t	o the right	_	
		s Precipitation (see formu	la above)		
	Weighted E =	1.85 in.	TREAT	MENT	
	Off-Site Volume of Run		A =	0%	
	$\frac{V360}{CCC} =$	930 CF	B =	17%	
	Off-Site Peak Discharge	Rate: (see formula above)	C =	4%	•
**D	$Qp = \frac{Qp}{1 + 1}$	0.6 cts	<u>D</u> =	79%	
rroposea Basin 3 flow	vs to free discharge to 1st				,
		BASIN 4 - PROPO	SED		When and a three processes are seen as the second of the s
From Site Topographic]		_	
Area of Basin flows =	6780 SF		0.2 Ac.	Precip. Zone	2
I ne following calculatio	ons are based on Treatmen	nt areas as shown in table t	o the right		
	Off Cias 347-1-1-4-1 E	- D ' - ' - (C	1 1		
		s Precipitation (see formu			
	Weighted E =	1.91 in.	TREAT	MENT	
	Off-Site Volume of Run		A =	0%	
	Off Site Peels Discharge	1077 CF	B =	16%	
	On-Site Peak Discharge	Rate: (see formula above)	C =	0%	•
**Proposed Rasin 4 flow	vs to free discharge to 1st	St NIM	<u>D</u> =	84%	
i roposcu Dasin 4 nov					×
Free discharge comments	<u>-</u>	RGE TO 1ST STREET N	w - warison		
Free discharge comparis	OII.	Dronosa			
Existing:		Proposed			
Basin 1 only =	3.0 cfs	Basin 1 =	1.3 cfs		
		Basin 2 (pipe) =	0.4 cfs		
		Basin 3 =	0.6 cfs		
		Basin 4 =	0.7 cfs		

Therefore, the increase in discharge rates is insignificant and will have a negligible affect on downstream facilities.

TOTAL

2.9 cfs

JUNE 9, 1998

SUPPLEMENTAL CALCULATIONS

FOR

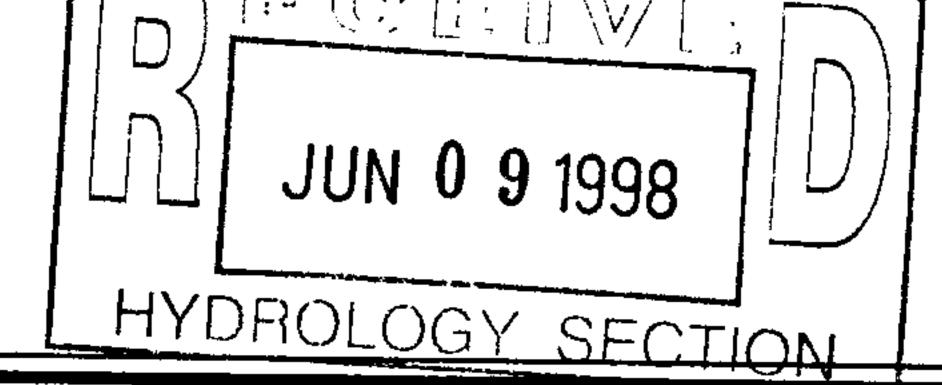
DuBay - 2300 FIRST STREET NW ALBUQUERQUE, NEW MEXICO

BY



C.L.WEISS ENGINEERING, INC.

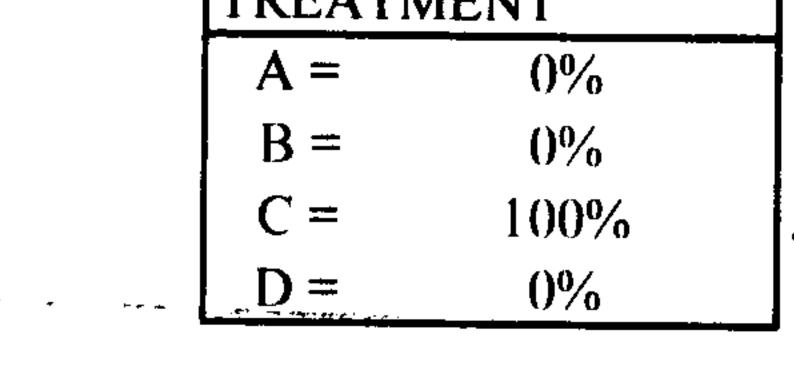
Post Office Box 97 * Sandia Park, NM 87047
Phone / Fax (505) 281-1800
1100 Alvarado Dr. NE * Albuquerque, NM 87110
Phone / Fax (505) 266-3444

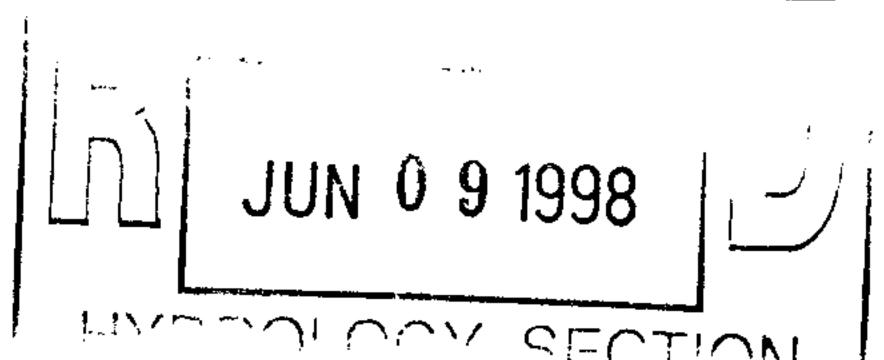


Calculations are based on the Drainage Design Criteria for City of Albuquerque Section 22.2. DPM. Vol 2, dated Jan., 1993 ON-SITE AREA OF SITE: 54346 SF Ac. = HISTORIC FLOWS: **DEVELOPED FLOWS: EXCESS PRECIPITATION:** On-Site Historic Land Condition On-Site Developed Land Condition Precip. Zone SF Area a =Area a SF Ea = 0.53Area b =SF Area b SF 4059 \equiv Eb =0.7832396 SF Area c 10853 Area c SF Ec = 1.1321950 Area d SF = 39434 Area d SF Ed = 2.12= 54346 SF Total Area Total Area 54346 On-Site Weighted Excess Precipitation (100-Year, 6-Hour Storm) Weighted E = EaAa + EbAb + EcAc + EdAdAa + Ab + Ac + AdHistoric 1.53 in. E Developed E 1.82 in. On-Site Volume of Runoff: V360 = E*A / 126928 CF Historic V360 = Developed V360 8252 CF On-Site Peak Discharge Rate: Qp = QpaAa+QpbAb+QpcAc+QpdAd / 43,560 For Precipitation Zone 2 Qpa = 1.56Qpc | 3.14 == 2.28Qbb 4.70 Qpd. Historic Qp = 4.7 CFS Developed Qp 5.2 CFS See below for individual basin analysis. **BASIN 1 - EXISTING** From Site Topographic Survey: Area of Basin flows = 31050 SF 0.7 Precip. Zone Ac. The following calculations are based on Treatment areas as shown in table to the right. Weighted Excess Precipitation (see formula above) Weighted E 1.85 in. TREATMENT Volume of Runoff (see formula above) A =()% V360 4794 CF $\mathbf{B} =$ ()% Peak Discharge Rate: (see formula above) C =27% 3.0 cfs 73% D =**Existing Basin 1 flows currently exit the site to 1st Street NW **BASIN 2 - EXISTING** From Site Topographic Survey: Area of Basin flows = 16248 SF 0.4 Ac. Precip. Zone The following calculations are based on Treatment areas as shown in table to the right. Weighted Excess Precipitation (see formula above) Weighted E 1.13 in. TREATMENT Volume of Runoff (see formula above) 0% V360 1530

**Existing Basin 2 flows currently pond on site

Peak Discharge Rate: (see formula above)





1.2

cfs

BASIN 3 - EXISTI	NG
From Site Topographic Survey:	
Area of Basin flows = 7048 SF	0.2 Ac. Precip. Zone 2
The following calculations are based on Treatment areas as shown in table t	to the right.
Weighted Excess Precipitation (see formula above	2)
Weighted E = 1.15 in.	TREATMENT
Volume of Runoff (see formula above)	A = 0%
V360 = 675 CF	B = 0%
Peak Discharge Rate: (see formula above)	C = 98%
Qp = 0.5 cfs	D = 2%
**Existing Basin 3 flows currently exit site to the A.T. & S.F. Railroad R.O).W.
BASIN 1 - PROPO	SED
From Site Topographic Survey:	
Area of Basin flows = 12021 SF	0.3 Ac. Precip. Zone 2
The following calculations are based on Treatment areas as shown in table t	to the right
Weighted Excess Precipitation (see formula above	2)
Weighted E = 1.78 in.	TREATMENT
Volume of Runoff (see formula above)	A = 0%
V360 = 1781 CF	$\mathbf{B} = 0\%$
Peak Discharge Rate: (see formula above)	$C = \cdot 34\%$
Qp = 1.1 cfs	D = 66%
**Proposed Basin 1 Flows to free discharge to 1st Street NW	
BASIN 2 - PROPO	SED
From Site Topographic Survey:	
Area of Basin flows = 30105 SF	0.69 Ac. Precip. Zone 2
The following calculations are based on Treatment areas as shown in table t	to the right
Weighted Excess Precipitation (see formula above	<u></u>
Weighted E = 1.88 in.	TREATMENT
Volume of Runoff (see formula above)	A = 0%
V360 = 4722 CF	$\mathbf{B} = 0\%$
Peak Discharge Rate: (see formula above)	C = 24%
Qp = 3.0 cfs	D = 76%
**Proposed Basin 2 flows to be collected in storm drain inlet and released the	hrough a 4" dia. storm drain. See additional calcs. below
PROPOSED POND SIZE	
	UME (CF) Volume Required:
Area of contour $4969.5 = 8095$	4231
$\begin{array}{rcl} 4969.0 & = & 4757 \\ 4968.5 & = & 10 \end{array} \stackrel{3213}{\longrightarrow} 1192$	* * * * * * * * * * * * * * * * * * *
7700.5 TO 10	4405

Flows will be released to 1st Street NW through 2 - 4" storm drains draining through a 1' wide sidewalk culvert. Pipe flow condition was checked by Orifice Equation and Kutters Formula for circular pipes flowing full. Controlling factor is friction loss for a maximum discharge of 0.15 cfs per pipe (total 0.3 cfs). See Inflow / Outflow Hydrograph for additional information.

DuBay - 2300 First Street NW

		BASIN 3 - PROPOSED			
From Site Topographic	Survey:				
Area of Basin flows =	4438 SF		0.1 Ac.	Precip. Zone	2
The following calculation	ons are based on Treatmer	it areas as shown in table to the ri			<u> </u>
			~~·		
	Weighted Excess Precip	itation (see formula above)			
	Weighted E =	1.76 in.	TREAT	MENT	
	Volume of Runoff (see		A =	0%	
	V36() =	650 CF	B =	27%	
	Peak Discharge Rate: (s		C =	0%	
	Qp =	0.4 cfs	D =	73%	•
**Proposed Basin 3 flov	ws to free discharge to 1st			7.57.0	
		BASIN 4 - PROPOSED			
From Site Topographic	Survey:				
Area of Basin flows =	7782 SF	=	0.2 Ac.	Precip. Zone	2
The following calculation	ons are based on Treatmer	t areas as shown in table to the ri			<u> </u>
			<i>G</i>		
	Weighted Excess Precip	itation (see formula above)			
	Weighted E =	1.93 in.	TREAT	MENT	
	Volume of Runoff (see f		A =	0%	
	V360 =	1253 CF	B =	14%	
	Peak Discharge Rate: (se	ee formula above)	C =	0%	
	Qp =	0.8 cfs	D =	86%	
**Proposed Basin 3 flow	vs to free discharge to 1st	St. NW			
	DISCHAR	GE TO 1ST STREET NW - CO	MPARISON		
Free discharge comparis	·				
Existing:		Proposed			
Basin 1 only =	3.0 cfs	Basin 1 =	1.1 cfs		
		Basin 2 (pipe) =	0.3 cfs		
		Basin 3 =	0.4 cfs		
		Basin 4 =	0.8 cfs		
		TOTAL =	2.6 cfs		

2.6 cfs

HYDROGRAPH FOR SMALL WATERSHED DPM SECTION 22-2 * PAGE A-13/14

Base time, t_B, for a small watershed hydrograph is,

tB =
$$(2.107 * E * AT / QP) - (0.25 * AD / AT)$$

Where
$$E = 1.88 \text{ inches}$$

$$AT = 0.69 \text{ acres}$$

$$AD = 0.53 \text{ acres}$$

$$QP = 3.0 \text{ cfs}$$

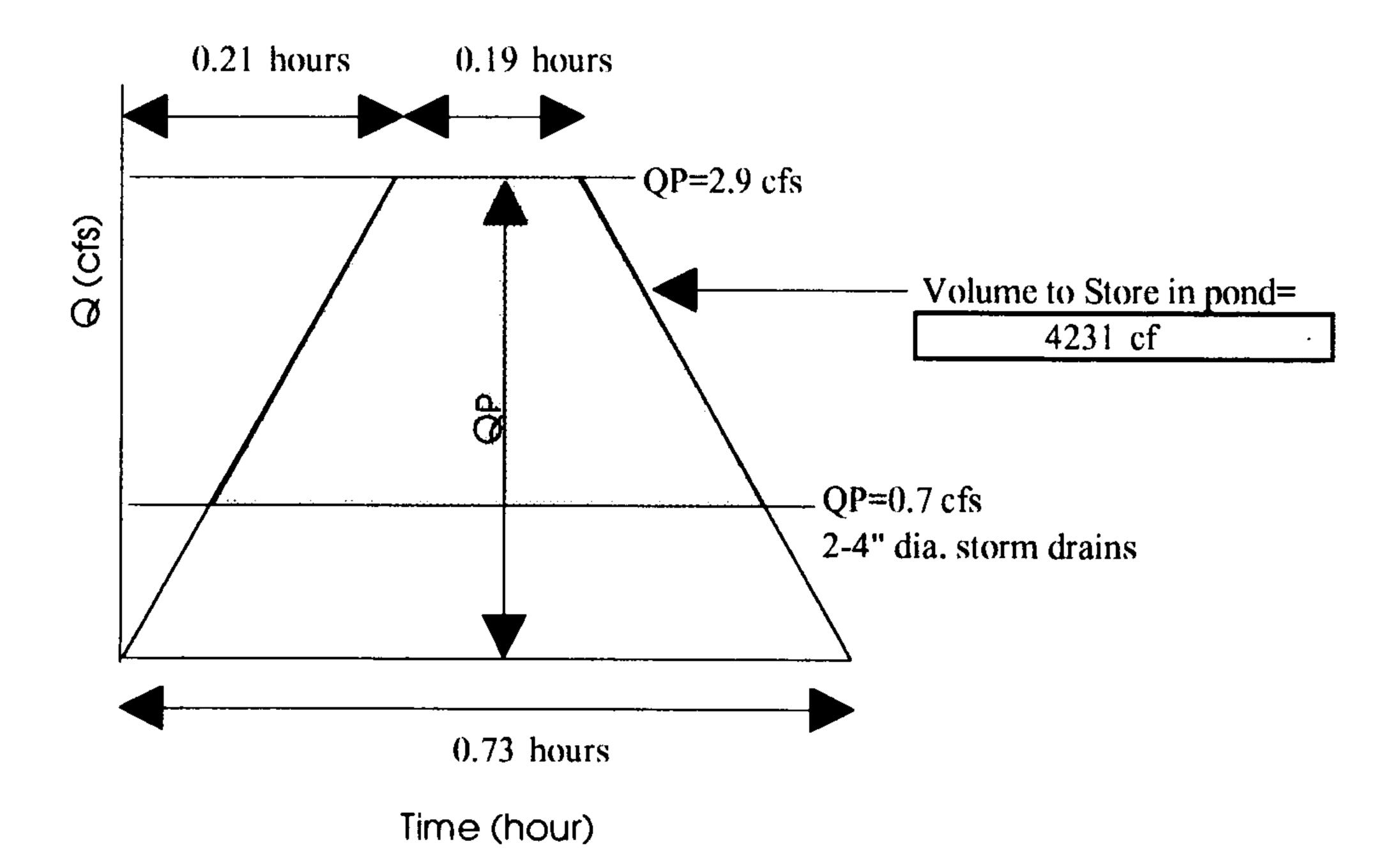
 $t_{\rm B} = 0.73 \text{ hours}$

E is the excess precipitation in inches (from DPM TABLE A-8), QP is the peak flow, AD is the area in treatment D, and AT is the total area in acres. Using the time of concentration, tC (hours), the time to peak in hours is:

tP =
$$(0.7 * tC) + ((1.6 - (AD / AT)) / 12)$$

Where $tC = 0.20 \text{ hours}$
tP = 0.21 hours

Continue the peak for 0.25 * AP / AT hours. When AD is zero, the hydrograph will be triangular. When AD is not zero, the hyrograph will be trapezoidal, see the graph below:



INFLOW / OUTFLOW HYDROGRAPH

RESUBMITTAL DRAINAGE INFORMATION SHEET

PROJECT TITLE: First Street Facility Hausman Corporation LEGAL DESCRIPTION: Lots 1-11, Block 12, Franciscan Additional Legal Description of the Le	ZONE ATLAS / DRNG. FILE #: <u>H14-D81</u> tion, Albuquerque, New Mexico	
CITY ADDRESS: N/A		
ENGINEERING FIRM: C.L. Weiss Engineering	CONTACT: Chris Weiss	
ADDRESS: P.O. Box 97, Sandia Park NM, 87047	PHONE: 281-1800	
OWNER:	CONTACT:	
ADDRESS:	PHONE:	
ARCHITECT:	CONTACT:	
ADDRESS:	PHONE:	
SURVEYOR: Forstbauer Surveying Co.	CONTACT: Ron Forstbauer	
ADDRESS: 1100 Alvarado Dr. NE - 87110	PHONE: 268-2112	
CONTRACTOR FIRM:	CONTACT:	
ADDRESS:	PHONE:	
PRE-DESIGN MEETING:		
YES	DRB NO	
X_NO	EPC NO	
COPY OF CONFERENCE RECAP SHEET PROVIDED	PROJ. NO	
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:	
DRAINAGE REPORT	SKETCH PLAT	
X_DRAINAGE PLAN	PRELIMINARY PLAT	
CONCEPTUAL GRADING & DRAINAGE PLAN	SITE DEVELOPMENT PLAN	
X_GRADING PLAN	FINAL PLAT	
EROSION CONTROL PLAN	X BUILDING PERMIT	
ENGINEER'S CERTIFICATION	FOUNDATION PERMIT	
	CERT. OF OCCUPANCY	
MAY 0 6 1998	ROUGH GRADING PERMIT	
	GRADING / PAVING PERMIT	
HYDROLOGY SECTION	OTHER	
DATE SUBMITTED: May 6, 1998 - RESUBMITTAL		

BY: C.L. Weiss Engineering, Inc.



Phone / Fax (505) 281-1800 Alvarado Office (505) 266-3444

May 6, 1998

Bernie Montoya City of Albuquerque Hydrology Dept. PO Box 1293 Albuquerque, NM 87103

RE:

DRAINAGE PLAN RESUBMITTAL FOR FIRST STREET FACILITY HAUSMAN CORPORATION (H14-D81).

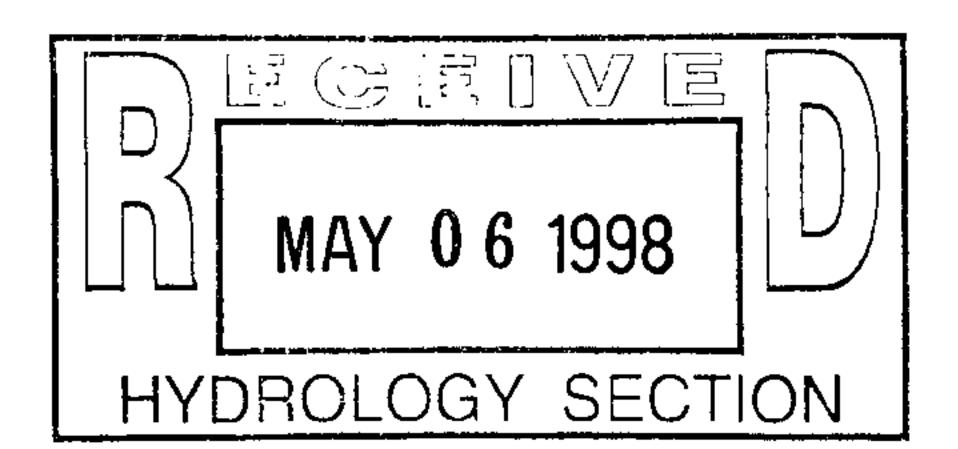
Dear Mr. Montoya,

Mike DuBay asked us to resubmit this plan with a current date on the engineer's stamp to obtain a new building permit. I have reviewed the plan and all notes and calculations are based on current COA requirements. No changes have been made other than the updated engineer's stamp. Please don't hesitate to call me at 266-3444 or Chris Weiss at 281-1800 with any questions or comments.

Sincerely,

Bryan J. Hobrick

C. L. Weiss Engineering, Inc.





June 22,1998

Chris Weiss C.L. Weiss Engineering Inc. P.O. Box 97 Sandia Park, new Mexico 87047

RE: REVISED DRAINAGE PLAN FOR FIRST STREET FACILITY HAUSMAN CORP. (H14-D81) REVISION DATED 5/9/98

Dear Mr. Weiss:

Based on the information provided on your June 9,1998 resubmittal, the above referenced site is approved for Building Permit.

Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

Also, I will need concurrence from the sidewalk inspector for the sidewalk culverts that have already been installed.

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

If I can be of further assistance, please feel free to contact me at 924-3986.

C: Andrew Garcia

File 2

Sincerely

Bernie J. Montoya CE
Associate Engineer



RESUBMITTAL DRAINAGE INFORMATION SHEET



HYDROLOGY SECTION

PROJECT TITLE: First Street Facility Hausman Corporation	ZONE ATLAS / DRNG. FILE #: H14-D8
LEGAL DESCRIPTION: Lots 1-A, Block 12, Franciscan Additi	on, Albuquerque, New Mexico
CITY ADDRESS: 2300 First Street NW	
ENGINEERING FIRM: C.L. Weiss Engineering	CONTACT: Chris Weiss
ADDRESS: P.O. Box 97, Sandia Park NM, 87047	PHONE: 281-1800
OWNER:	CONTACT:
ADDRESS:	PHONE:
ARCHITECT:	
ADDRESS:	PHONE:
SURVEYOR: Forstbauer Surveying Co.	CONTACT: Ron Forstbauer
ADDRESS: 1100 Alvarado Dr. NE - 87110	PHONE: 268-2112
CONTRACTOR FIRM:	CONTACT:
ADDRESS:	PHONE:
PRE-DESIGN MEETING:	
YES	DRB NO
 NO	EPC NO.
COPY OF CONFERENCE RECAP SHEET PROVIDED	PROJ. NO
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
DRAINAGE REPORT	SKETCH PLAT
X_DRAINAGE PLAN	PRELIMINARY PLAT
CONCEPTUAL GRADING & DRAINAGE PLAN	SITE DEVELOPMENT PLAN
X_GRADING PLAN	FINAL PLAT
EROSION CONTROL PLAN	X BUILDING PERMIT
ENGINEER'S CERTIFICATION	FOUNDATION PERMIT
	CERT. OF OCCUPANCY
	ROUGH GRADING PERMIT
	GRADING / PAVING PERMIT
	OTHER
CATE OURS USES -	
DATE SUBMITTED: June 9, 1998 - RESUBMITTAL	
BY: C.L. Weiss Engineering, Inc.	D