

April 17, 2009

Van H. Gilbert, R.A.
Van H. Gilbert Architect PC
2428 Baylor Dr. SE
Albuquerque, NM 87106

Re: Certification Engineer's Stamp dated 7-16-08 (M16-D012) Certificate of Occupancy Van H. Gilbert Office Addition, 2428 Baylor Dr. dated 02-06-09 - Transportation Developme SE,

Dear Mr. Gilbert,

PO Box 1293 Occupancy by Transportation Development. above referenced certification Based upon the information provided in your submittal recication is approved for release of permaner of permanen

If you have any questions, you can contact me at 924-3991

Sincerely,

NM 87103

cabq.gov

Kristal D. Metro, P.E. Traffic Engineer, Plant

Development and Building Services

C: CO Clerk

्रि AND TRANSPORTATION (REV 12/2005) (REV INFORMATIO SHEET

Plats shall be accompanied by a draining submittal. The particular nature,	Requests for approvals of Site Development Plans and/or Subdivision I
BY:////	DATE SUBMITTED: 4//6/09
	COPY PROVIDED
SECTION	
HYDROLOGY	WAS A PRE-DESIGN CONFERENCE ATTENDED: YES
OTHER (SPECIFY) APR 1.6 7009	
PAVING PERMIT APPROVAL PAVING PERMIT APPROVAL	OTHER (SPECIFY) OTHER (SPECIFY)
CY (TEMP)	ENGINEER'S CERT (TCL)
CERTIFICATE OF OCCUPANCY (PERM)	TRAFFIC CIRCULATION LAYOUT
OUNDATION PERMIT	ENGINEER'S CERT (HYDROLOGY)
FINAL PLAIN APPROVAL	EROSION CONTROL PLAN
DEV. FOR BLDG. PERMIT APPRO	CONCEPTUAL G & D PLAN
S. DEV. PLAN FOR SUB'D APPROVAL	DRAINAGE PLAN RESUBMITTAL
A/FINANCIAL GUARANTI	DRAINAGE REPORT TO A THIA CE DE ANI 1st CETEAMTT A T
VAL	TYPE OF SUBMITTAL:
ZIP CODE: 87/04	ITY, STATE: ALGUA. NM
CONTACT: B.//	CONTRACTOR: B. R. GORDON CONSTR.
CODE: 87113	TTY, STATE: ALBUSUERS
CONTACT: Shawn Brazar VE PHONE: 895-5570	SURVEYOR: ADDRESS: 4414 ANAHEIM AVE N
)E:	Y, STATE: ALBuquesqu
PHONE: 338-7025	2428 B1
ار از	・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・
ZIP CODE: 33X-702S	CITY, STATE: ACQUATION ONLY
4	VAN H. G.Ibert &
ZIP CODE:	STATE:
I I	.;
CONTACT:	ᅜ
F AUBUQ, NM 87106	ADDRESS:_
	LEGAL DESCRIPTION:
359 WORK ORDER#: ZONE MAP: 199-15-2	PROJECT TITLE: VAN H Gibeat Facous

cation, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be quired based on the following:

1. Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.

2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres.

3. Drainage Report: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more.

TRAFFIC CERTIFICATION

actual in I, approved plan dated further certify the Document has certification Van H. Gilbert, of the fin Substantial Compliance site conditions IS that I submitted been bу obtained have and ave personally visual inspection is support true with by and and ofvisited the correct Gilbert in acc that request Gilbert accordance the to for the Project of information survey the best with firm Site data of m Van the provi knowledge and belief. design Occupancy. H. Gilbert Architect PC.

2428 Baylor Drive SE and vided is representative of the second seco certify onto the intent that representative of and belief. This original Design t this project is it of the TCL and of

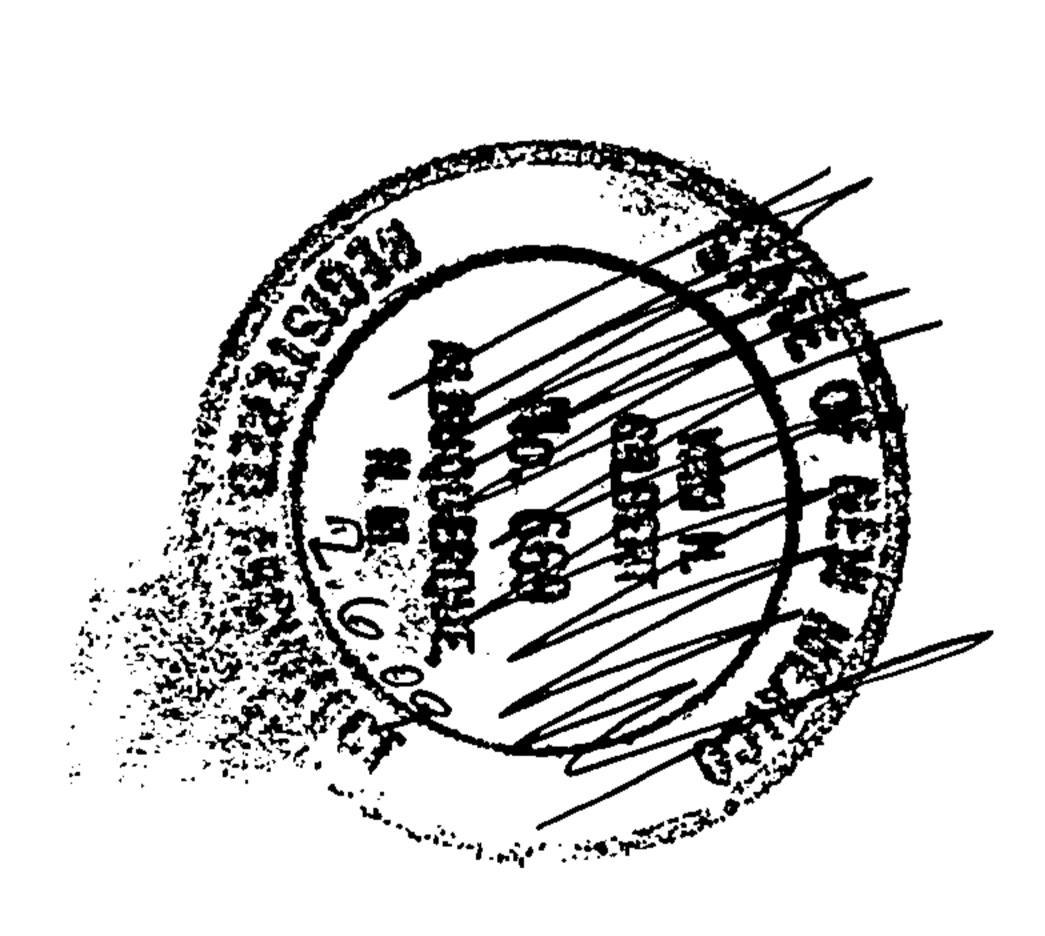
Substantial informatio the her traffic endent aspects necessarily ofthis complo Projec ct. its ete accuracy Those and intended relying before only on using the

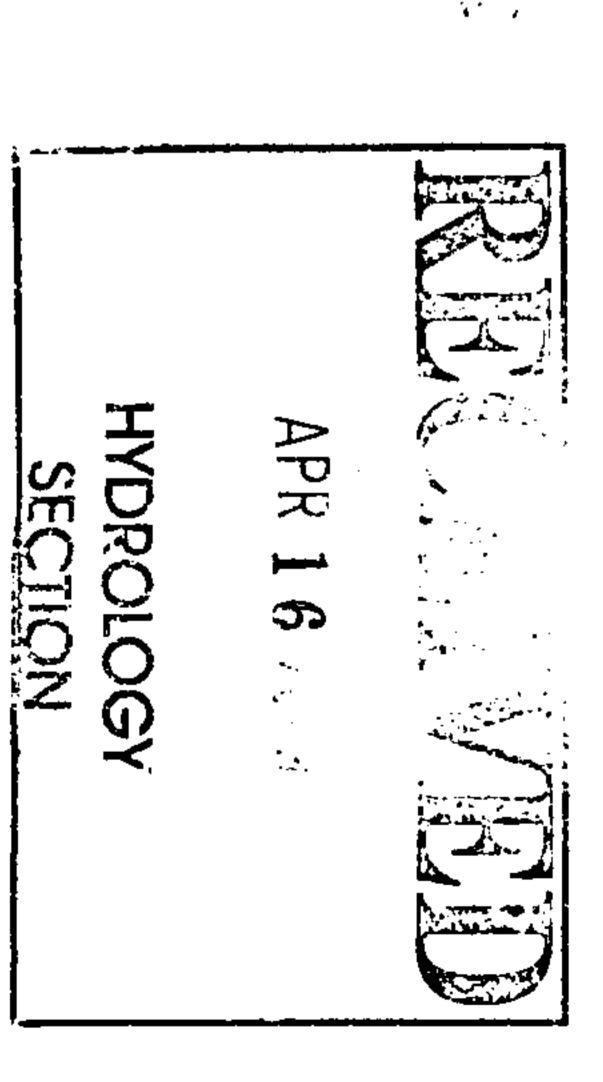
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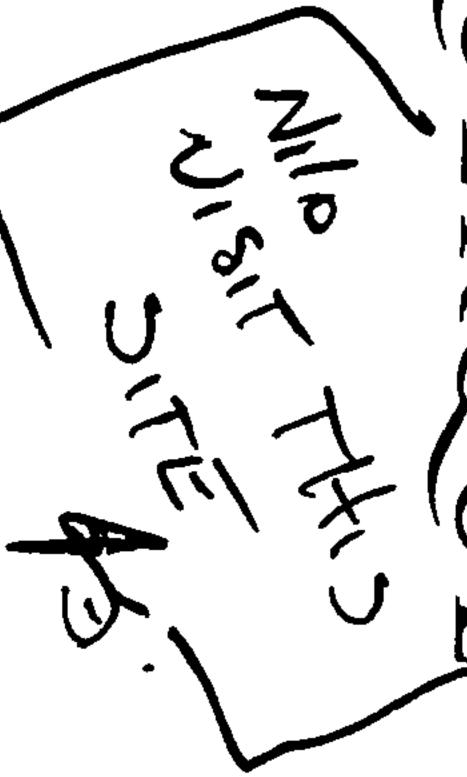
Signature of Engineer or Archite

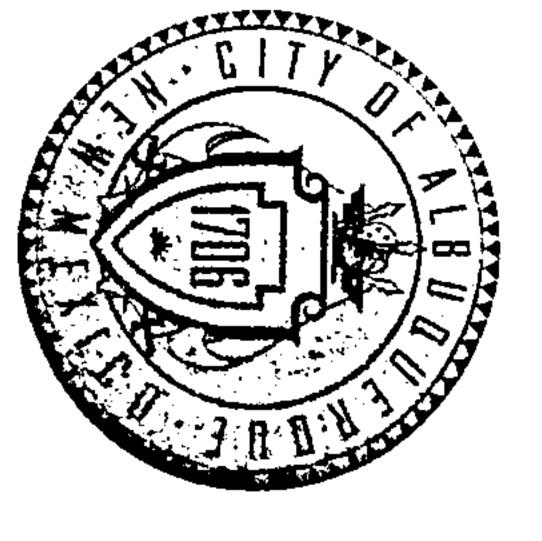
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July 25, 2008

Van 2428 Albuquerque, Baylor Dr . Gilbert, R.A. . Gilbert Archite NM 87 ect PC 106

Van Architect's Gilber pert Office Addition, 2428 Baylor Dr. Stamp Dated 7-16-08 (M-16/D012)

Dear Mr. Gilbert,

signed information permits are required Please keep Public infrastructure or information only and is TOL as approved. mittal received 7-25-08 is approved for Building Permit. The plan is stamped and proved. A copy of this plan will be needed for each of the building permit plans. the original to be used for certification of the site for final C.O. for Transportation. structure or work done within City Right-of-Way shown on these plans is for only and is not part of approval. A separate DRC and/or other appropriate required to construct these items.

Albuque 129 If a temporary CO is needed, a copy of the original TCL that was stamped as approved by th City will be needed. This plan must include a statement that identifies the outstanding items that need to be constructed or the items that have not been built in "substantial compliance," as well as the signed and dated stamp of a NM registered architect or engineer. Submit this TCL with a completed Drainage and Transportation Information Sheet to Hydrology at the Development Services Center of Plaza Del Sol Building.

approved by the

Transportation Information Sol Building. compliance" with the approved TCL for ce date the certification When the site is completed and a final C.O. is requested, use the orig TCL for certification. A NM registered architect or engineer ertification TCL along with indicating that the development we" with the TCL. Submit this certification TCL with a compleation Information Sheet to Hydrology at the Development Se CL with a completed Development Service development wa original must stamp, sign, and vas built in "substantial ed <u>Drainage and</u> lices Center of Plaza City stamped 크.

NM 87103

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

Sincerely,

Traffic Kristal Development and Engine Ō. Metro, Planning Dept.

Building Service lanni

File

DR GE J K ANSPOR TION INFORMATION SHEET

SUR DRB#: CITY PROJECT OWNER: ENGINEERING FIRM: ONTR ACHITECT:
ADDRESS:
CITY, STA RVEYOR:
ADDRESS:
"TY, STATE: AL DESCRIPTADDRESS: ADDRESS: CITY, STATE: ADDRESS: _____CITY, STATE: CITY, ADDRESS: CTOR: TITLE: STATE: ATE: TION: 428 74 BAYE 乡 10 0 EPC#: 4 2 7 (RE (TATIUIN / 12/2005) 25 WORK ORDER#: CONTACT:
PHONE: CONTACT:
PHONE:
ZIP CODE: PHONE: CONTAC PHONE: CONT ZIP ZIP PHONE: CONTACT: ZIP CODE: CODE: CODE: CODE: ACT: ACT: ZONE MAP: 87106 ō Jela

HYDROLOGY	D: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	WAS A PRE-DESIGN CONFERENCE ATTENDED: YES
PROVAL JUL 25 2008	WORK ORDER APPROVAL OTHER (SPECIFY)	
FAVING PERMIT MAPROVAL	PAVING PERMIT	ENGINEER'S CERT (DRB SITE PLAN) OTHER (SPECIFY)
TE OH COLVENANCY (LEVIN)	CERTIFICATE OF	ENGINEER'S CERT (TCL)
ERMIT APPROVAL, L	BUILDING PERMI	CLOMR/LOMR TRAFFIC CIRCUIT ATION I AVOITE
FOUNDATION PERMIT APPROVAL	FOUNDATION PE	ENGINEER'S CERT (HYDROLOGY)
ROVAL	FINAL PLAT APPROVAL	EROSION CONTROL PLAN
PROVAL	SECTOR PLAN APPROVAL	GRADING PLAN
EV. FOR BLDG. PERMIT APPROVAL	S. DEV. FOR BLDO	CONCEPTUAL G & D PLAN
PLAN FOR SUB'D APPROVAL	S. DEV. PLAN FOR	DRAINAGE PLAN RESUBMITTAL
JMINARY PLAT APPROVAL	PRELIMINARY PI	DRAINAGE PLAN 1st SUBMITTAL
SIA/FINANCIAL GUARANTEE RELEASE	SIA/FINANCIAL C	DRAINAGE REPORT
AL SOUGHT:	CHECK TYPE OF APPROVAL SOUGHT:	TYPE OF SUBMITTAL:

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

1. Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five 2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres or 3. Drainage Report: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or Plans and/or Subdivision Plats shall be accompanied by a dramage nent defines the degree of drainage detail. One or more of the follo submittal. The particular nature, wing levels of submittal may be

DATE

SUBMITTED:

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BY

A SECTION

NO

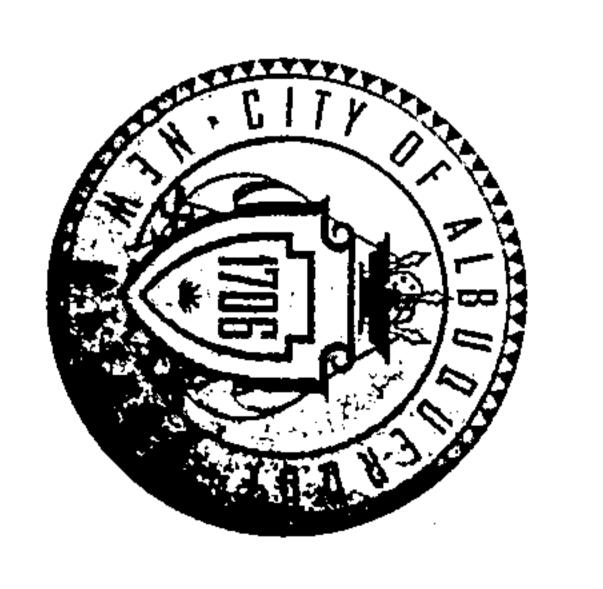
COP.

PRO

VIDED

SECTION

- five (5) acres and Sector Plans.
 /e (5) acres.
 /s or more.



April 15, 2009

Shahab Biazar, P.E.

Advanced Engineering & Consulting, LLC

4416 Anaheim Avenue NE

Albuquerque, NM 87113

Approval of Permanent Certificate of Occupancy, Van H. Gi lbert Architect Studio Office Addition, 9

Engineer's Stamp Date: 04-11-08

Certification Stamp Date: 4-10-09

Dear Mr. Biazar,

РО Вох

1293

Based upon your approved for rele ase of Permanent submittal received 4/10/09, the Certificate of Occupancy b above referen

If ou ha any q uestions, you can contact me at 924-3982.

Albuquerque

Timothy E. Sims

NM 87103

Plan Checker-Hydrology, Planning Dept Development and Building Services

C: CO Clerk—Katrina Sigala file

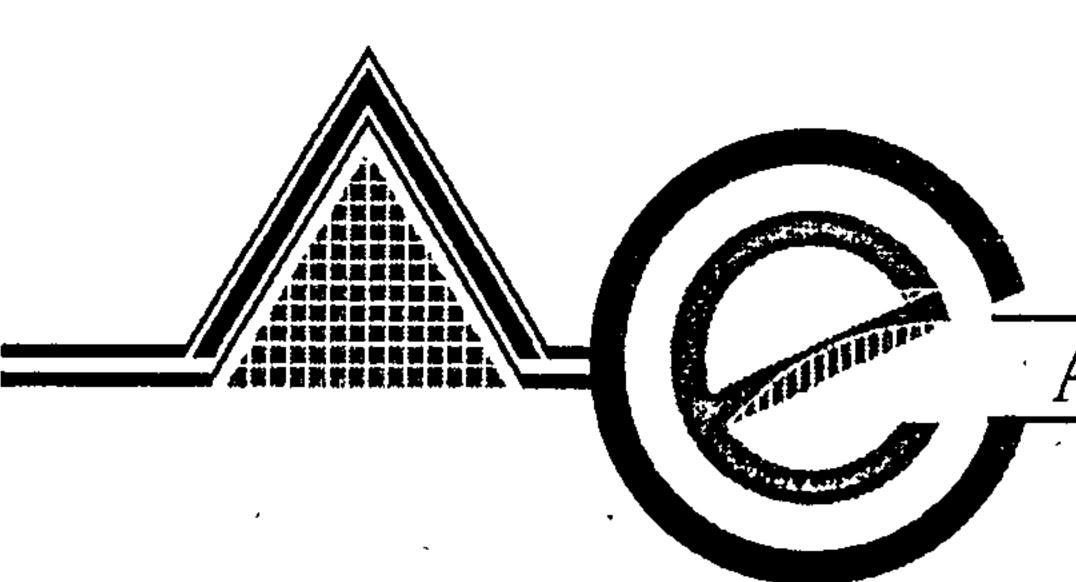
DRAINAGE AND TRANSPORTATION INFORMATION SHEET (Rev. 12/05)

PROIECT TITLE.	VAN H CIL RERT ARCHITECT STILLION OFFICE ADDITION	ZONE ATLAS/DEC RILE #	M16/D012
DRB #:		ORDER#:	
LEGAL DESCRIPTION:	TRACT A-2, BLOCK 2, AIRPORT INDUSTRIAL PA	RX	
CITY ADDRESS:			
ENGINEERING FIRM: ADDRESS: CITY, STATE:	Advanced Engineering and Consulting, LLC 4416 Anaheim Ave., NE Albuquerque, New Mexico ZIP CODE:	T: Shahab Biazar (505) 899-5570 E: 87113	
OWNER: ADDRESS: CITY, STATE:	CONTACT: PHONE: ZIP CODE:	T:	
ARCHITECT: ADDRESS: CITY, STATE:	CONTACT: PHONE: ZIP CODE:		
SURVEYOR: ADDRESS: CITY, STATE:	CONTAC PHONE: ZIP COD	T:	
CONTRACTOR: ADDRESS: CITY, STATE:	CONTACT PHONE: ZIP CODE:		
CHECK TYPE OF SUBMITTAL:	TAL: CHECK TYPE OF	APPROVAL SOUGHT:	

DATE SUBMITTED: 04/10/2009	COPY PROVIDED	YES	PRE-DESIGN CONFERENCE ATTENDED:	OTHER (SPECITY)	ENGINEER/ARCHITECT CERT (AA)	ENGINEER/ARCHITECT CERT (DRB S.P.)	ENGINEER/ARCHITECT CERT (TCL)	TRAFFIC CIRCULATION LAYOUT (TCL)	CLOMR / LOMR	ENGINEER'S CERTIFICATION (HYDROLOGY)	EROSION CONTROL PLAN	GRADING PLAN	CONCEPTUAL GRADING & DRAINAGE PLAN	DRAINAGE PLAN RESUBMITTAL	DRAINAGE PLAN IST SUBMITTAL	
BY: Shahab Biazar, P.E.	<u></u>	APRIOS ZUUS	OTHER (SPECIFY)	WORK ORDER APPROVAL	PAVING PERMIT APPROVAL	GRADING PERMIT APPROVAL	CERTIFICATE OF OCCUPANCY (TEMP.)	X CERTIFICATE OF OCCUPANCY (PERM.)	BUILDING PERMIT APPROVAL	FOUNDATION PERMIT APPROVAL	FINAL PLAT APPROVAL	SECTOR PLAN APPROVAL	S. DEV. PLAN FOR BLDG. PERMIT APPROVAL	S. DEV. PLAN FOR SUB'D. APPROVAL	PRELIMINARY PLAT APPROVAL	

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

- Sector Plans. Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans gr eater than five (5) and
- **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5).
- **Drainage Report:** Required for subd ivisions containing more than ten (10) lots or containing five (5) acres or more.



ADVANCED ENGINEERING and CONSULTING, LLC

Consulting
Design
Development
Management
Inspection

Surveying

April 10, 2009

Mr. Timothy E. Sims
Plan Checker-Hydrology
Development and Building Services
600 Second Street NW
Albuquerque, New Mexico 87102

RE: VAN GILBERT ARCHITECT STUDIO OFFICE ADDITION (M16-D012) FINAL CERTIFICATION OF OCCUPANCY

Dear Mr. Sims:

This letter is in request of Final Certification of Occupancy for the above mentioned project. I Shahab Biazar, NMPE, of the Advanced Engineering, LLC hereby certify that project has been graded and will drain in substantial compliance with and design intent of the approved plan dated 04/11/2008. Your comments received dated February 18, 2009 have been addressed. Top of wall elevations at the four corners of the pond are shown (elevations ranging from 5241.12 to 5240.92). Bottom of the wall/pond elevations are shown (elevations ranging from 5235.56 to 5236.12). The average elevations for the bottom of the pond are lower that what was called out on the plan. Therefore, we have more retention volume. The splash blocks are placed at all the scupper locations. Swales and the landscaping are completed as well.

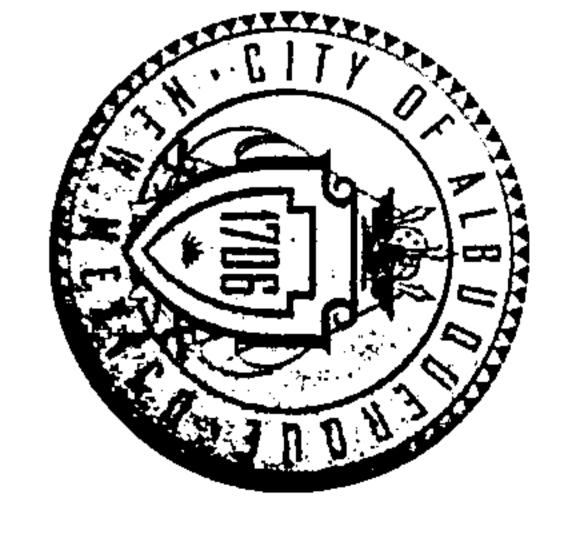
Please contact me if there are any questions or concerns regarding this submittal.

Sincerely yours,

Shahab Biazar, P.E.

APR (E) 7 WA

HYDROLOGY



February 18, 2009

Shahab Biazar, P.E.

Advanced Engineering & Consulting, LLC

4416 Anaheim Avenue NE

Albuquerque, NM 87113

Van Gilbert Architect Studio Office Addition, 2 428

Permanent Certificate of Occupancy - Not Approx Engineer's Stamp dated 4/11/08 (M-16/D012)

ed

Certification dated: 2-11-09

referenced Certif Based upon the fication is not approved for Permanent Certifi nformation provided in the Certification **icate** of Occupancy ,09 the

Before Permanent C.O. approval:

pond will Additional elevations are required for all the retaining need to be called out. The bottom of

Splash blocks are required at all scupper locations.

The will be required behind the bullaing to the dest side of the swale will need to be constructed on the east side of the swale will need to be constructed on the east side of the constructed on the east side of the swale will need to be constructed on the east side of the swale will need to be constructed on the east side of the swale will need to be constructed on the east side of the swale will need to be constructed on the east side of the swale will need to be constructed on the east side of the swale will need to be constructed on the east side of the swale will need to be constructed on the east side of the swale will need to be constructed on the east side of the swale will need to be constructed on the east side of the swale will need to be constructed on the east side of the swale will need to be constructed on the east side of the swale will need to be constructed on the east side of the swale will need to be constructed on the east side of the swale will need to be constructed on the east side of the swale will need to be constructed on the east side of the swale will need to be constructed on the east side of the swale will need to be constructed on the will need to be constructed on the swale will need to be constructed on the swale wil landscaping and swales to the basin will need to be be required behind the building to the detention por $\overline{\mathbf{Q}}$ building to completed. addition the pond.

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

NM 87103

Albuquerque

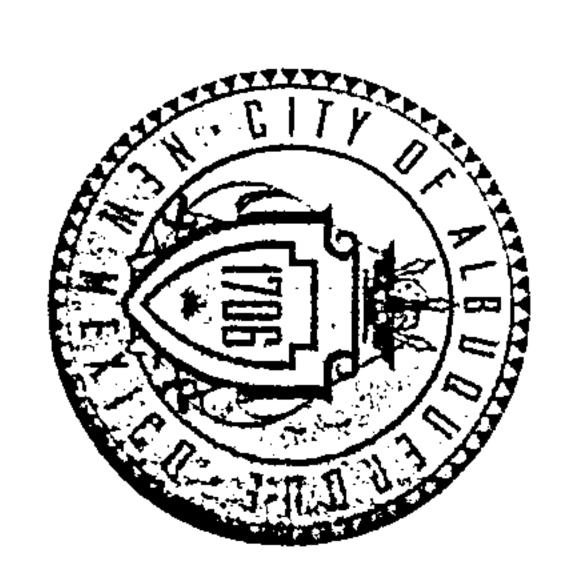
Timothy E. Sims

erely

X8V)

Plan Checker—Hydrology
Development and Building Services

Albuquerque - Making History 1706-200



July 15, 2008

Van H. Gilbert, R.A.
Van H. Gilbert Architect PC
2428 Baylor Dr. SE
Albuquerque, NM 87106

Re: Van H. Gilbert Office Addition, 2428 Baylor Dr.

Traffic Circulation Layout

No Architect's Stamp (M-16/D012)

Dear Mr. Gilbert,

above referenced plan cannot be approved for Building Permit un comments are addressed: Based upon the information provided in your submittal rec

engineer The traffic circulation layout must be or architect licensed in the state of New stamped, signed, Mexi

- 2. Provide a copy of the shared parking agreement with L
- 3. Please show a vicinity map on the plan.
- Chapter \forall scale must be 27, Section 2, shown Part B.1, only the following sca on the plan. Per the Developm

NM 87103

Albuquerque

PO Box 1293

• 1" = 50'
• 1" = 20'
• 1" = 10'
• 1" = 100' (for overall layouts only)

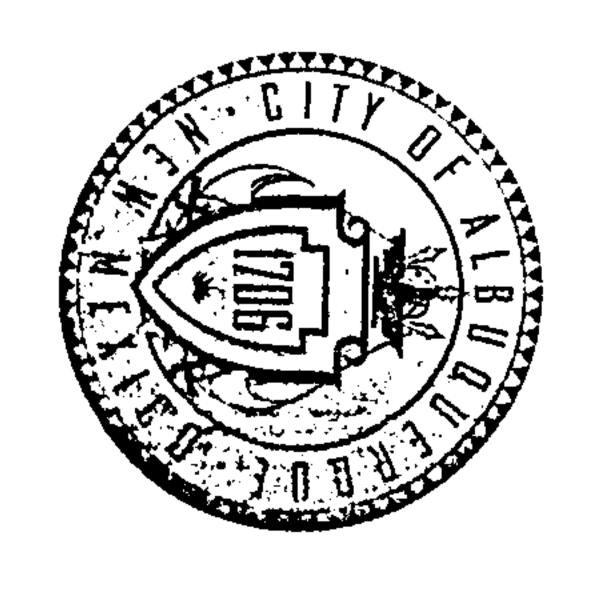
If you have any questions, you can contact me at 924-3991

Sin

spely,

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

C: File



July 2, 2008

2428 Van H. Van H. 2428 Baylor Dr. SE Albuquerque, NM 87106 Gilbert Gilbert, R.A Architect PC

Traffic Van H. Architect's Stamp dated 6-17-08 (M-16/D012) Circulation Layout Gilbert Office Addition, 2428 Baylor Dr.

Dear Mr. Gilbert,

comments are addressed: above referenced plan cannot be approved for Building Permit unt Based upon the information provided in your submittal rec

parking requires prior approval.

Please list the width and length for all parking spaces. count on-street parking within your parking calculation Unless you have been approved for onstreet parking c

Albuquerque

PO Box 1293

Provide a copy of the shared parking agreement with La Clarify the extents of this project; will any changes hap Please provide more detail.

you have any questions, you can contact me at 924-3991.

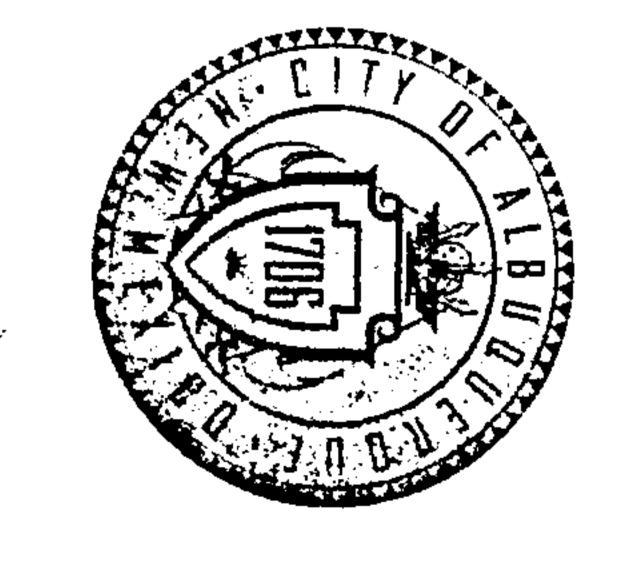
Sincerely

Traffic ristal D. Engineer, . Metro, P.E. Planning Dept. lding Services

Development and Buij

DEPARTMEN evelopment

April 24, 2008



Shahab Biazar, P.E. Advanced Engineering and Consulting, LLC 4416 Anaheim Ave., NE Albuquerque, NM 87113

Revised 'AN H. **Grading and Drainage Plan** BERT ARCHITECT STUDIO OFFICE (PE Stamped (

Dear Mr. Biazar:

Permit Report Based npon and Building Permit. with the P.E. information seal uauon provided in your s l dated 2/5/08 above submittal referenced received plan Grading

Please requesting signattach off copy off by the Hydrology Section. of the Building plan

PO Box 1293

Albuquerque

purposes, Notes: -Please "escape. easement an underground call me if you want to consider to however 1.)This high. createAs an approved plan proposes a retention pond with Fencing of this installation is not required alternative, your client masstorage/infiltration system, safety positive codesof outfall may south one of these alternativ require to may the or fence want to storm even and drain requir consider 2 Alamo

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NM 87103

this Prior to Certificate plan is required of per Occupancy the DPM. approval, an Engineer's Certification

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

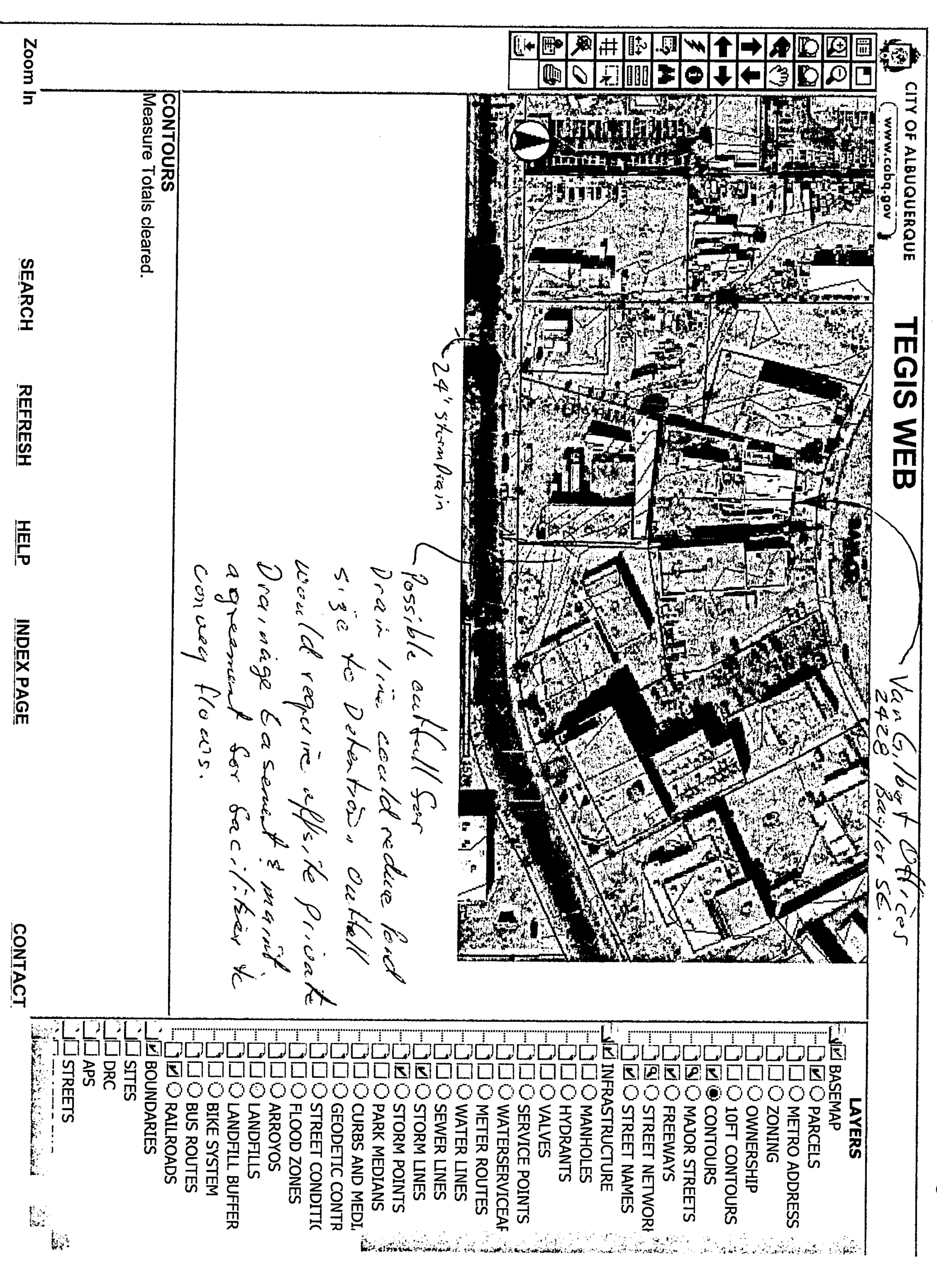
Sincerely,

Gregofry R.

Olson,

P.E.

Brad Bingham file F21-B66 (A) - 9012 (4)



Design Your Detention

HOLES

pricing For design assistance, dyods@contechssistance, drawings, completed worksheet cpi.com

roject STORMWATE Summary OLUTIONS INC.

Date: Project Name: 4/23/2008 /an Gilbert

Albuquerque NM

olution

CAST-IN-PLAC

Enter Information 3

State: Designed By: City / County: ompany:

Storage Calculator (ft^3)

Volume

Required

6,265

8.00

18

5

.99

span

Volume

12" Min.

Cover

Elevation

Finished

6.00

Yes

Waterway

Area (ft²)

47.38

Strip

Invert Depth Below Limiting Width (ft): Asphalt(ft):

Foundation Type: Precast Rise (‡

Porous Stone Backfill included for Storage:

Depth A: Stone Above Arch (in):

Depth Stone Porosity (0 to Stone Below Foundation 40%):

of Manhole **Outlet Chambers** Openings:

0

40

Elev.

Precast Clear Rise

Effective Depth

Span

below

Rise is 1" less than Precast Rise ð

Outlet chambers used

Minimum Hydraulic Sizing Storage Control walls. Use Custom Layout (at right) for layout adjustment

.ength:

ft x 38,568 11850 056 448 133 ∞ Ħ Units ರ S 804.8 1064 %

ONTECH Materials

Rectangular

Footprint

3

Porous Stone

Storage:

Total Storage Provided:

Total Length of Required

CON/STORM Storage:

Manhole Total Length of Joint Wrap Detached CON/STORM Units: Supports: Endwalls: 22 35 (8) (8) 8 55 65 tons tons

onstruction Quantities **Approximate** Truckloads:

19

trucks

Total Excavation: Stone Backfill: 1127 3149 Ş Ş stone

0

N

5

00

9

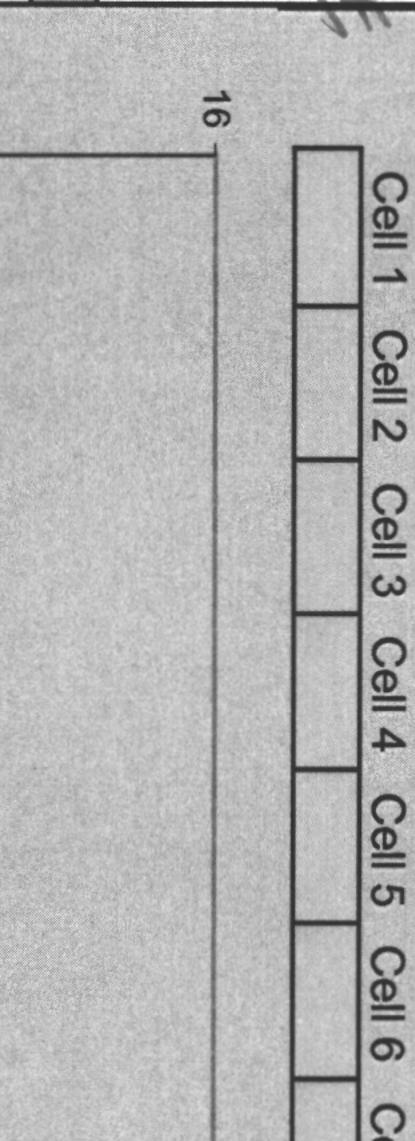
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12

Remaining Backfill to Grad. 454 Ş

Construction Quantities are Solutions approximate and should be verified upon final design

Additiona Length (Feet) 16 Cell Required select the



£41

FF: 43-63

· ·

Design Your Detention





pricing send completed worksheet to: For design assistance, dyods@contech-cpi.com drawings,

Project Depth Depth Project orrugated Metal Pipe Calc Storage Volume Required (cf): Date: Stone Width Around Perimeter Number Of Headers: Invert Depth Below Stone Porosity (0 to 40%): Solid or Perforated Pipe: Limiting State: Spacing between Barrels Shape Or Diameter (in): Company: Designed By: City / County: ₽ C: Porous Name: Width (ft): Porous Stone Stone Pipe Calculator Asphalt (ft): 4/23/2008 Albuquerque Above an Gilbert Below Pipe Pipe of System (in): (in): Additions 6,265 6.00 60 18.00 Perforated Enter Information in ft² Pipe Area

System Sizing

Pipe Storage:

Porous

Stone

Storage:

2,68

cf

6,37

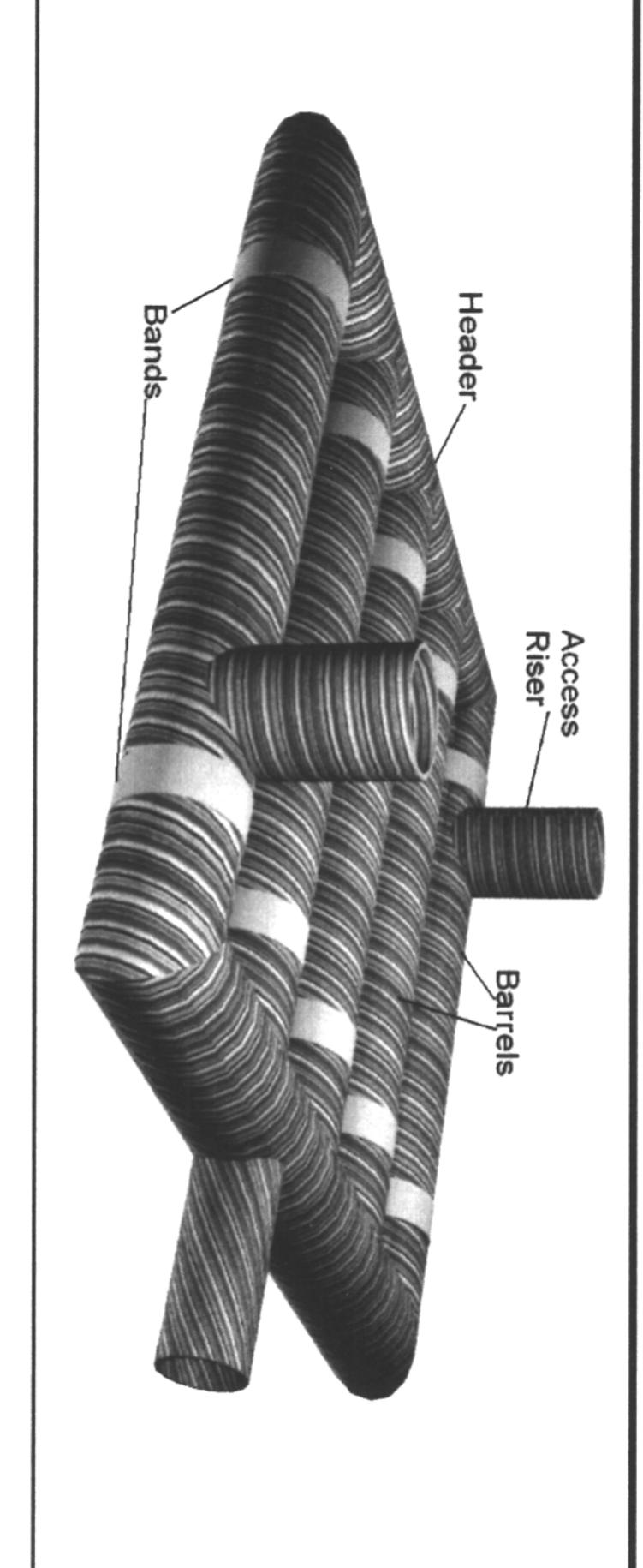
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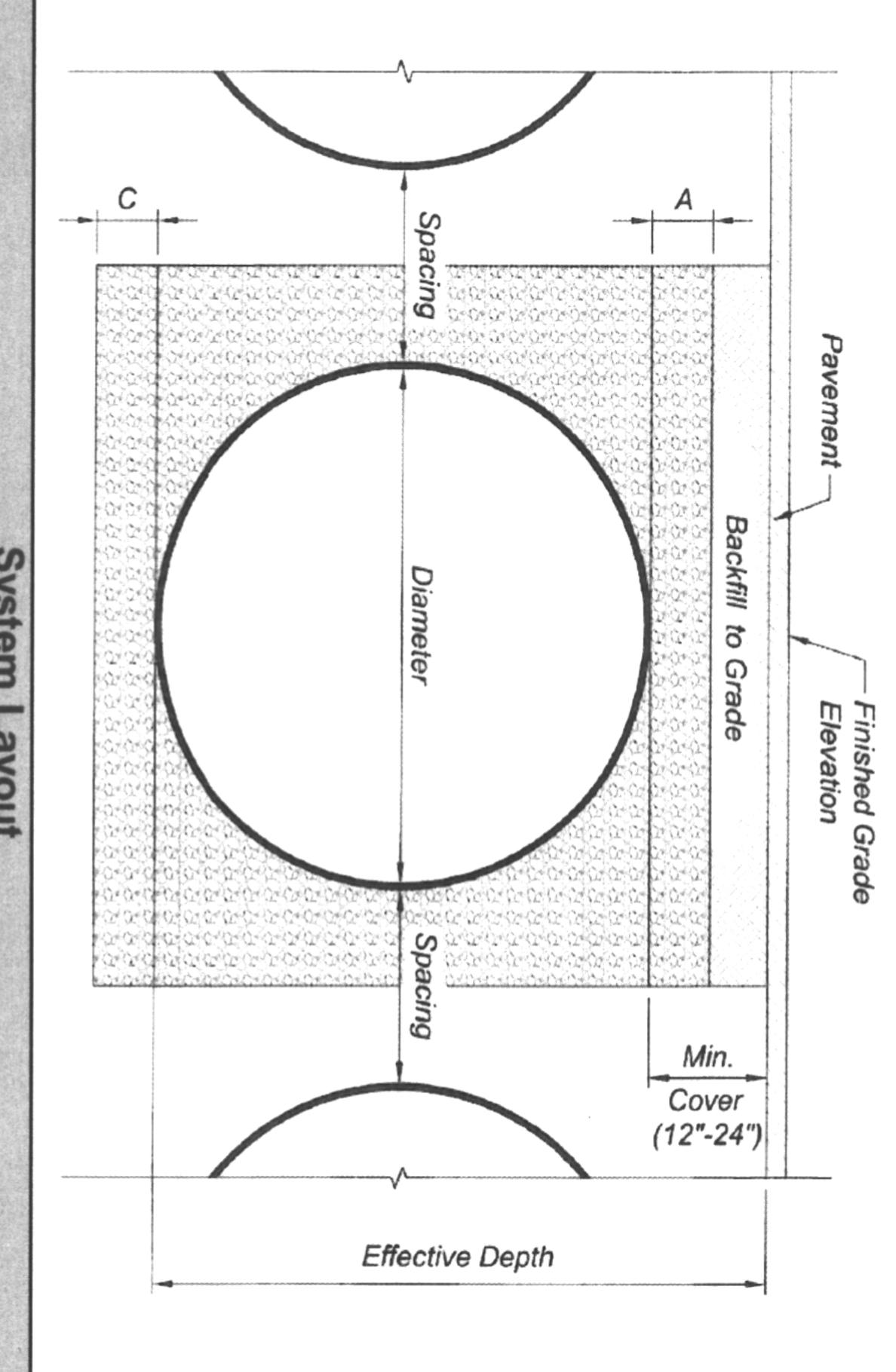
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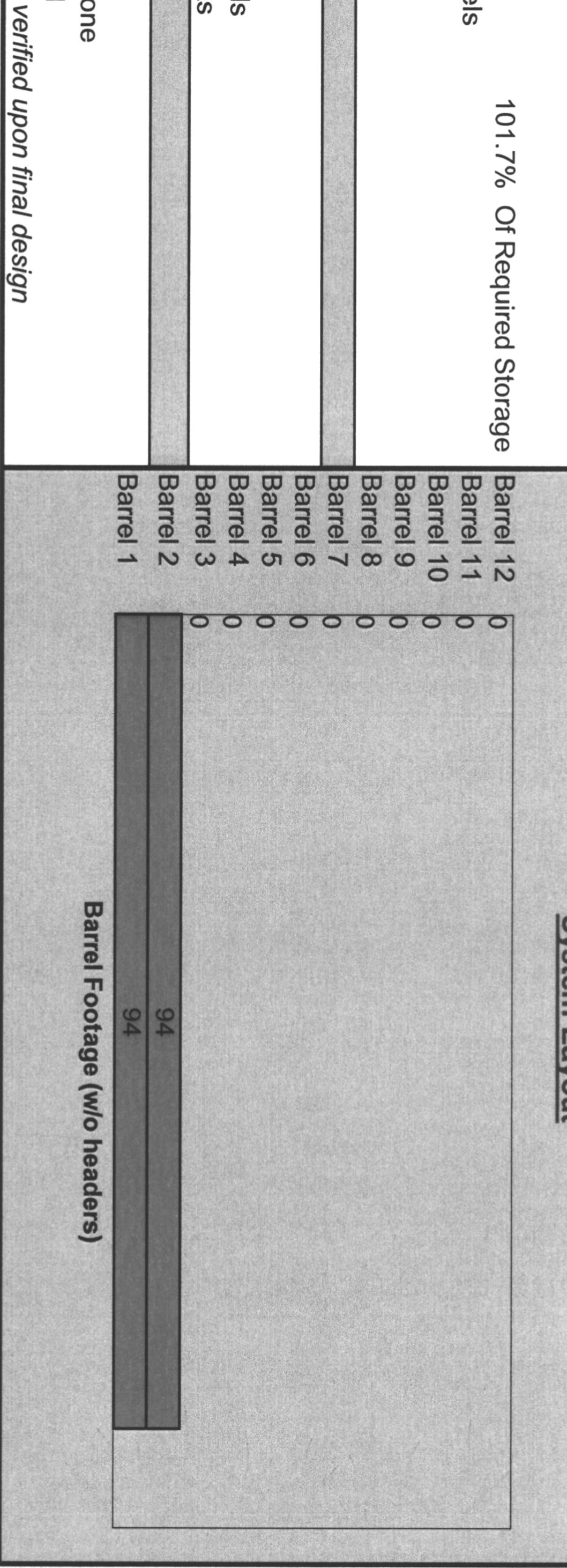
barrels

3,691

 $C_{\mathbf{f}}$







onstruction Quantities

Approximate

Truckloads:

Approximate

Total Pieces:

188 8

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pcs

2

bands

trucks

Total CMP

П

ootage:

Approximate

Coupling

ONTECH Materials

Rectangular Footprint

 \geqslant

99.

0.0

0

Length Per Header:

ength per Barrel:

Number of Barrels:

Total Storage Provided:

Total Excavation:

Porous

Stone Backfill For Storage:

248

Ç

stone

0

cy fill

385

S

Backfill to Grade

Excluding Stone:

**Construction

quantities

are

approximate

and

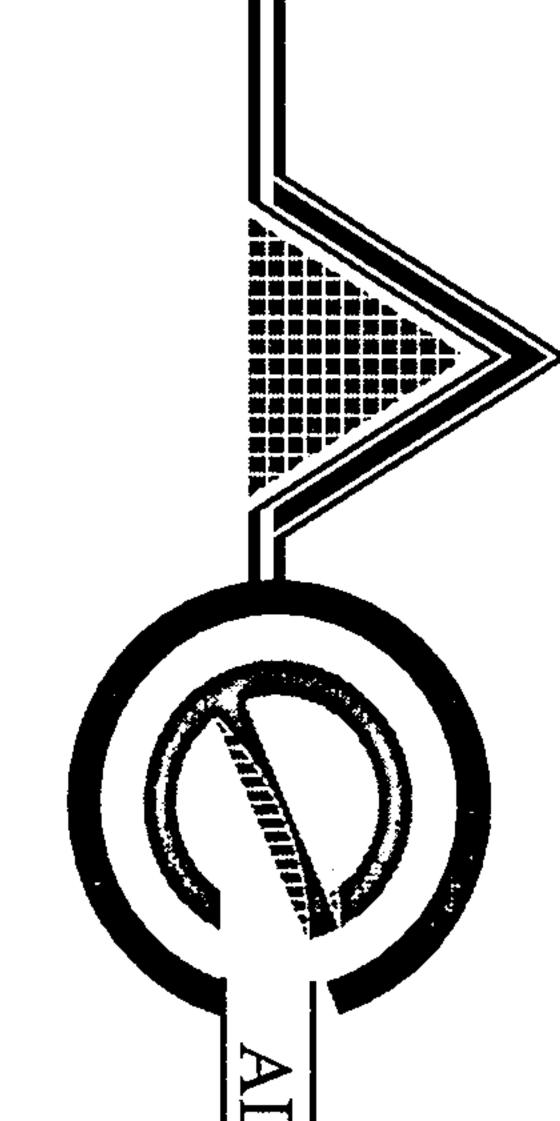
ould be

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (Rev. 12/05)

	BY: Shahab-Biazar, P.E.		04/11/2008	DATE SUBMITTED:
	A SECOND			
				COPY PROVIDED
				X NO
()				YES
			ONFERENCE ATTENDED:	WAS A PRE-DESIGN CON
	PECIFY)	OTHER (SPE		
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	- WORK OR	'	OTHER (SPECIT
	PERMIT APPROVALORS	PAVING PI	HITECT CERT (AA)	ENGINEER/ARCHI
	PERMIT APPROVAL	GRADING	HITECT CERT (DRB S.P.)	ENGINEER/ARCHITEC
	TIFICATE OF OCCUPANCY (TEMP.)	_ CERTIFIC	HITECT CERT (TCL)	ENGINEER/ARCHIT
•	THICATE OF OCCUPANCY (PERM.)	_ CERTIFIC	JLATION LAYOUT (TCL)	TRAFFIC CIRCUI
	PERMIT APPROVAL	_ BUILDING		CLOMR / LOMR
	TION PERMIT APPROVAL	_ FOUNDAT	RTIFICATION (HYDROLOGY)	ENGINEER'S CERTIFICATION
	AT APPROVAL	FINAL PLA	ROL PLAN	EROSION CONTRO
	PLAN APPROVAL	SECTOR P		X GRADING PLAN
YAL	PLAN FOR BLDG. PERMIT APPRO	S. DEV. PL	GRADING & DRAINAGE PLAN	CONCEPTUAL
	AN FOR SUB'D. APPROVAL	_ S. DEV. PL	DRAINAGE PLAN RESUBMITTAL	DRAINAGE PLA
	ARY PLAT APPROVAL	PRELIMINARY	N 1ST SUBMITTAL	DRAINAGE PLAN
	FINANCIAL GUARANTEE RELEASE	_ SIA / FINAI	ORT	DRAINAGE REPOR
	PPROVAL SOUGHT:	K TYPE OF A	CHEC	CHECK TYPE OF SUBMITTAL
-				
		ZIP CODE:		CITY, STATE:
		CONTACT:		CONTRACTOR:
		ZIP CODE:		CITY, STATE:
		CONTACT:		SURVEYOR:
		ZIP CODE:		CITY, STATE:
		CONTACT: PHONE:		ARCHITECT: ADDRESS:
		ZIP CODE:		CITY, STATE:
		34		OWNER: ADDRESS:
	87113	ZIP CODE:	Albuquerque, New Mexico	CITY, STATE:
	505) 89	ONE:	Q	ADDRESS:
	Shahab Biazar	CONTACT:	Advanced Engineering and Consulting, LLC	ENGINEERING FIRM:
			S	CITY ADDRESS:
		JSTRIAL PARK	TRACT A-2, BLOCK 2, AIRPORT INDUS	LEGAL DESCRIPTION:
	WORK ORDER #:		EPC #:	
M16/D012	ZONE ATLAS/DRG. FILE #:	ADDITION	VAN H. GILBERT ARCHITECT STUDIO OFFICE AL	PROJECT TITLE:

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

- Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans g
- **Drainage Plans:** Required for build ling permits, grading permits, paving permits and site plans less than five (5).
- Drainage Report: Required for subdivisions containing more than ten (10) lots or containing fiv



pril 11, 2008

Consulting
Design
Development
Management
Inspection
Surveying

Mr. 600 Hydrology Development and Building Albuquerque, Second S Gregory Section 77 New treet N Olson, Mexico \leq P.E. 87 Se 102

ÄN DR GIL BERT AINAGE PI RCI 6-D012)

Dear Mr. Olson:

following This are letter the responses and submittal to based comments: March 12, 2008. The

- the the pond is full. The water retaining should be wall was maintained Ħ within the pond, and retaining ij should structurally be th this modification stable when
- pond volume water The retention surface pond elevation is was shown to have Section 1.06' freeboard. 100-year/10-day volume vised calculations for the
- the Developed Q, Pond Under the City Drainage General Notes Number Volume, etc Vumber was .D012. added to lso the plan. values surface ainage treatments, report under
- The areas of different treatments was added to the plan.
- having Since was the are wall proposing suspende retaining
- proposed plans. The rundowns 4'x4' were concrete from the H drain over the wall onto penetrations are added to DROLOG

H (505) 899-5570 FA

4416

Anaheim Ave.,

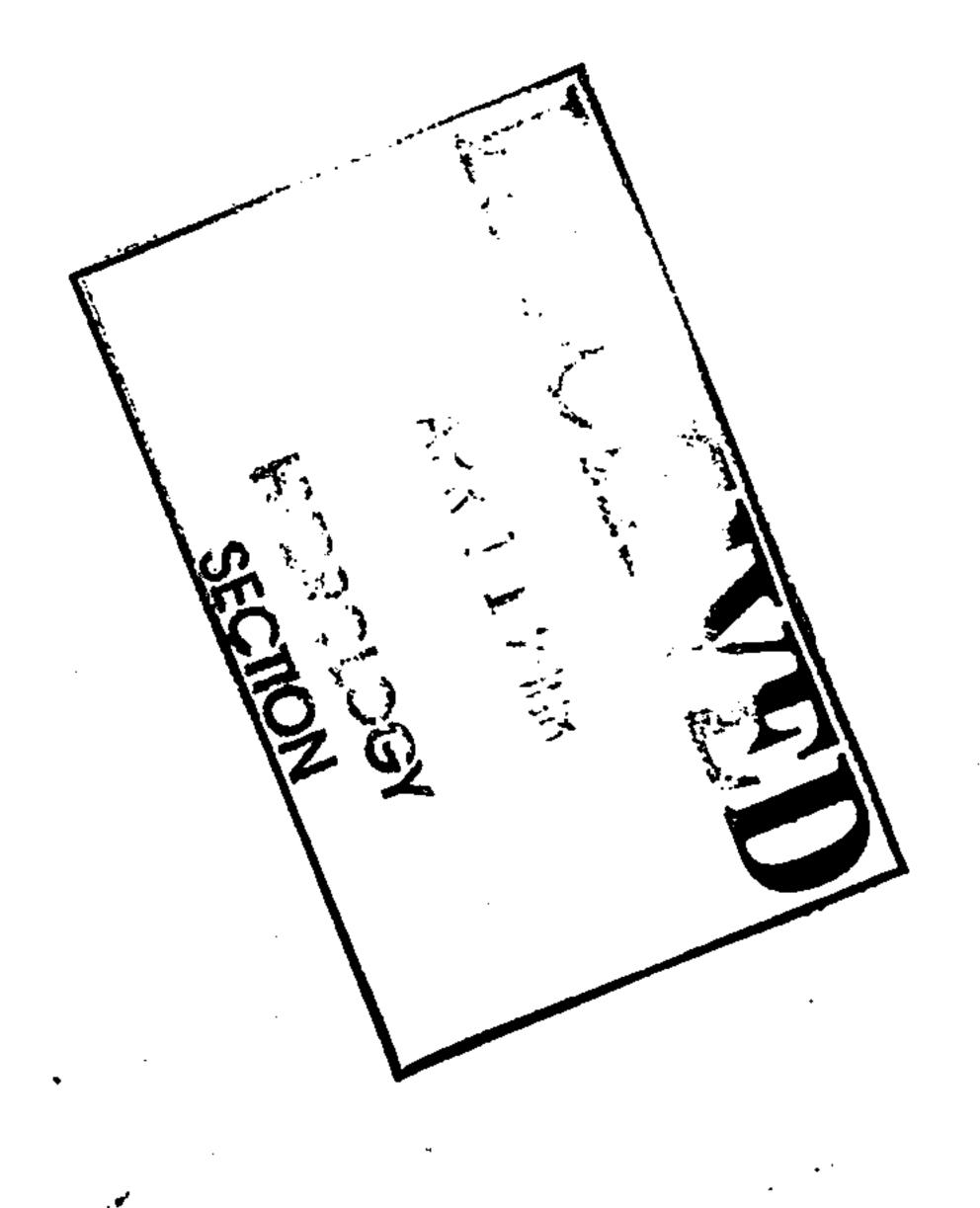
N.E.,

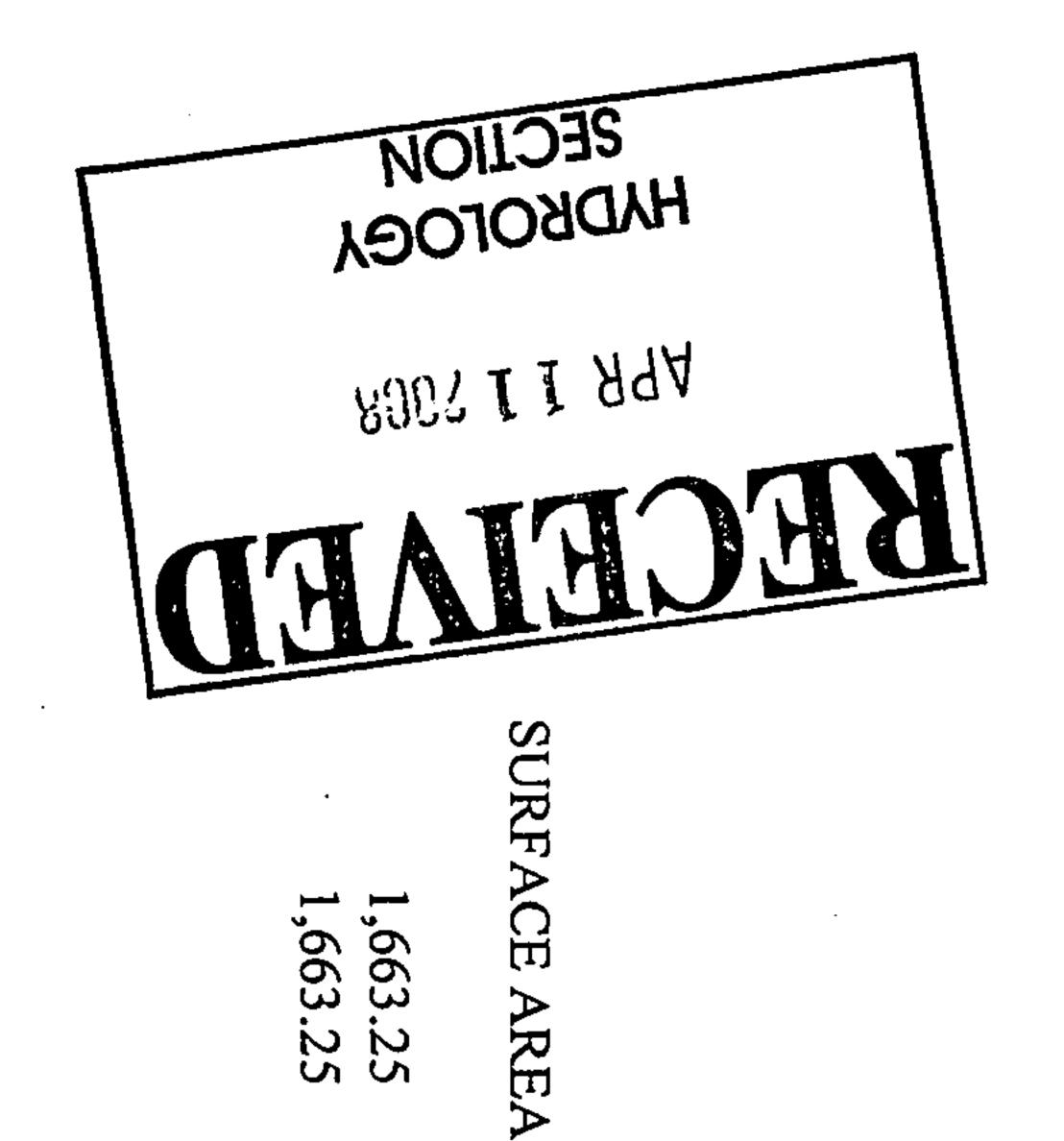
- Section D-D section show the new retaining wall. was corrected on the plans. The 6" layer of rock is shown. Section D-D was modified to
- proposed 4'x4' Channel Section was eliminated from the plans. concrete apron. The runoff will flow ver the wall onto
- Section F-F Dimensions from the Section F-F and Section was added to retaining show the retaining wall at the pond and the -A wall to the extended stem Concrete apron does not connect to the wall were added extended stem extended on the
- retaining wall. Concrete Apron Detail. Sections D-D and F-F both show how concre apron ties itno

Please contact me if there any questions or concerns regarding this submittal.

Sincerely yours,

Shahab Biazar, P.E.





SURFACE AREA (SF)

ELEVATION (FT)

OLUME (CF)

VOLUME (A

1,663.25 1,663.25

5,241.00 5,235.67

8,870.67

0.2036

PONDING VOLUME PROVIDED (@ ELEV. 5241) =

8,870.67

0.2036

PONDING VOLUME REQUIRED (100-YR / 10-DAY STORM) = 6,264.07

0.1438

(100-YEAR / 10-DA VOLUME)

ELEVATION (FT)

(SF)

VOLUME (CF)

VOLUME (A

5239.936160 5,236.17

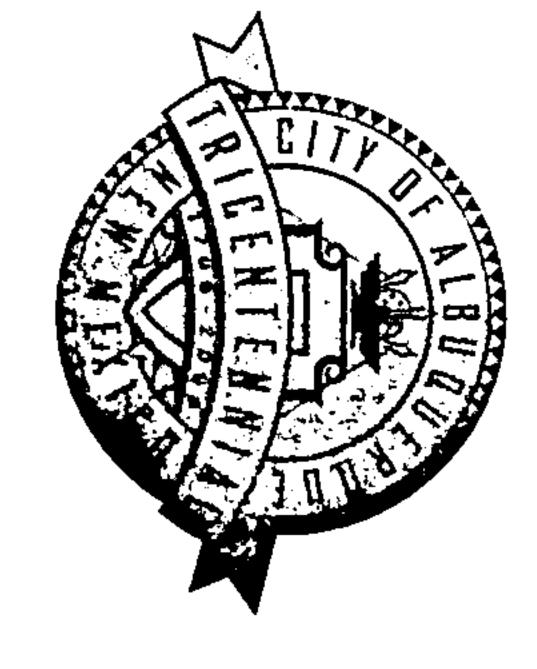
1,663.25 1,663.25

6,264.07

0.1438

NNING **3uilding**

March 12, 2008



Shahab Biazar, P.E. Advanced Engineering and Consulting, LLC 4416 Anaheim Ave., NE Albuquerque, NM 87113

Grading VAN H. and BERT Drainage Plan ARCHITECT STUDIO OFFICE ADDITION (PE Stamped 02-05--08) (M16 D012)

Dear Mr. Biazar:

comments above referenced Based upon are addressed: plan the information provided in your submittal received on 2/07/08 cannot be approved for Grading and Paving Permit until the following the

- flows tlows remaining on site to the new retention pond. Of specific contour intersecting the site near the west side of the pond. The submittal needs to include contour information at the west boundary concern is showing the 5042
- alone Since site, provide the are not pond elevation is above the grade at the property line retaining wall details to ensure that the pond wall is impervious (R.R. ties adequate) and structurally stable when pond is full. the SW corner of the

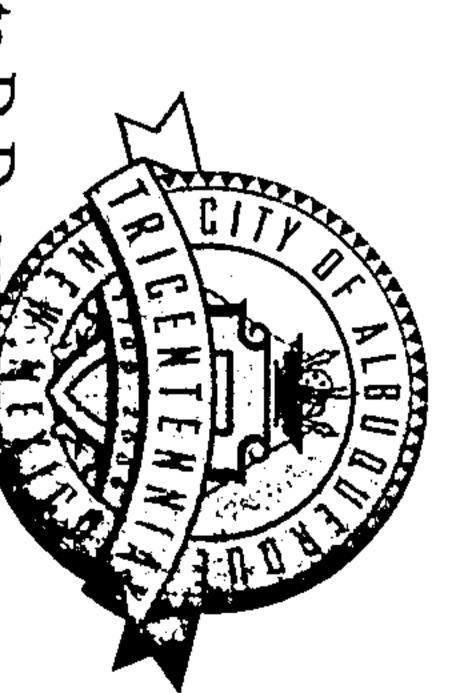
Albuquerque

Mexico

P.O. Box 1293

- 87103 water freeboard. Show the The retention surface 100-yr/10-day water surface on Section A-A and provide level. pond needs to have at least 12" of freeboard above Calculations provided indicate freeboard will be the 12" 100-year, less minimum than 10--3/4"
- Make Developed Q, critical values reference be on the G & D plan to the separate Drainage R from that report on the G & D Plan (e.g.- Propo Pond Volume, etc.). Proposed eport treatments, ANDinclude
- surface treatments used in the Call out on this plan the areas to be paved and landscaped to verify in the calculation. percentages
- What is the heavy gray line in the SW corner of the addition?
- the channel Section A-A: will be suspended above With the grades provided in the grade at the back of the Apron & Chann 5239 el Detail it appears Terrace .evel. that
- Section A-A:
- R.R. Provide details of how the rundown channels and the Drain Pi Tie Retaining walls. pes will pass through the
- Section D-D: The section appears to be reversed from the section cut in the plan view.
- Section D-D: Show in the section where the channel intercepts the lowest terrace
- D-D: Show the 6, layer of rock in the pond bottom.
- Channel Section: Provide specified channel dimensions, not ju ust ranges

2008 Building & elopment



and ties to channel to Apron & Channel Detail: show the concrete apron slab; n Detail: How does how tail: Provide a Section F-F cut parallel the "Extended Stem Wall" fits with the Show dimensions for the "Extended Tie R etaining Wall.' Stem Wall

Concrete Apron How does this tie or fit with the Reta Wall?

If you have any questions or would like to schedule a meeting to contact me at 924-3981. discuss this,

P.I

Brad Bingham file F21 D66

P.O. Box 1293

Mexico 87103

DRAINAGE É TRANSPORTATION INFORMATION

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9	
Q	
<u>o</u>	
` <u>.</u> 1	

		(ev. 12/05)	
PROJECT TITLE:	VAN H. GILBERT ARCHITECT STUD	DIO OFFICE ADDITION	ZONE ATLAS/DRG. FILE #: M16
	EPC #:		WORK ORDER #:
LEGAL DESCRIPTION:	TRACT A-2, BLOCK 2,	AIRPORT INDUSTRIAL PARK	
CITY ADDRESS:	2428 BAYLOR DR. S.E.		
ENGINEERING FIRM: ADDRESS: CITY, STATE:	Advanced Engineering and Consulting, 4416 Anaheim Ave., NE Albuquerque, New Mexico	CONTACT: PHONE: ZIP CODE:	Shahab Biazar (505) 899-5570 87113
OWNER: ADDRESS:		CONTACT: PHONE:	
CITY, STATE:		IP C	
ARCHITECT: ADDRESS: CITY, STATE:		CONTACT: PHONE: ZIP CODE:	
SURVEYOR: ADDRESS: CITY. STATE:		CONTACT: PHONE: ZIP CODE:	
CONTRACTOR:		3 Z	
CITY, STATE:		IP C	
CHECK TYPE OF SUBMITTA	TAL:	CHECK TYPE OF AP	PROVAL SOUGHT:
X DRAINAGE REPORT	ORT	SIA / FINAN	NCIAL GUARANTEE RELEASE
DRAINAGE PLAN	N 1ST SUBMITTAL	PRELIMIN,	ARY PLAT APPROVAL
DRAINAGE PLAN	N RESUBMITTAL	S. DEV. PL	AN FOR SUB'D. APPROVAL
CONCEPTUAL GRADING	RADING & DRAINAGE PLAN	S. DEV. PL.	AN FOR BLDG. PERMIT APPROVAL
X GRADING PLAN		SECTOR PI	LAN APPROVAL
EROSION CONTROL	PLAN	FINAL PLA	T APPROVAL
ENGINEER'S CERT	RTIFICATION (HYDROLOGY)	NDAT	N PERMIT APPRO
CLOMR/LOMR		DII	RMIT APPROVAL
TRAFFIC CIRCULA ENGINEER/ARCHIT	HITECT CERT (TCL)	CERTIFICA	ATE OF OCCUPANCY (PERM.) ATE OF OCCUPANCY (TEMP.)
ENGINEER/ARCHIT	TECT CERT (DRI	X GRADING	PERMIT APPROVA
ENGINEER/ARCHI	HITECT CERT (AA)	PAVING PE	RMIT PROVAL
OTHER (SPECIT	<u>5</u>	OTHER (SE	DER AFROYAL'S
WAS A PRE-DESIGN CONFEI	FERENCE ATTENDED:	S0.00	FEB VO TIME
X YES			
COPY PROVIDED			
DATE SUBMITTED:	02 / 05 / 2008		BY: Shahab Biazar, P.E.

 $\sum_{i=1}^{n} (i)^{i}$

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

Conceptual Grading and Drainage Plan: Sector Plans.

Drainage Plans:

Required for build

- Required for approval of Site Development Plans g eater than five (5) and
- **Drainage Report:** Required for subdivisions containing more than ten (10) lots or containing five (5) acres or more.

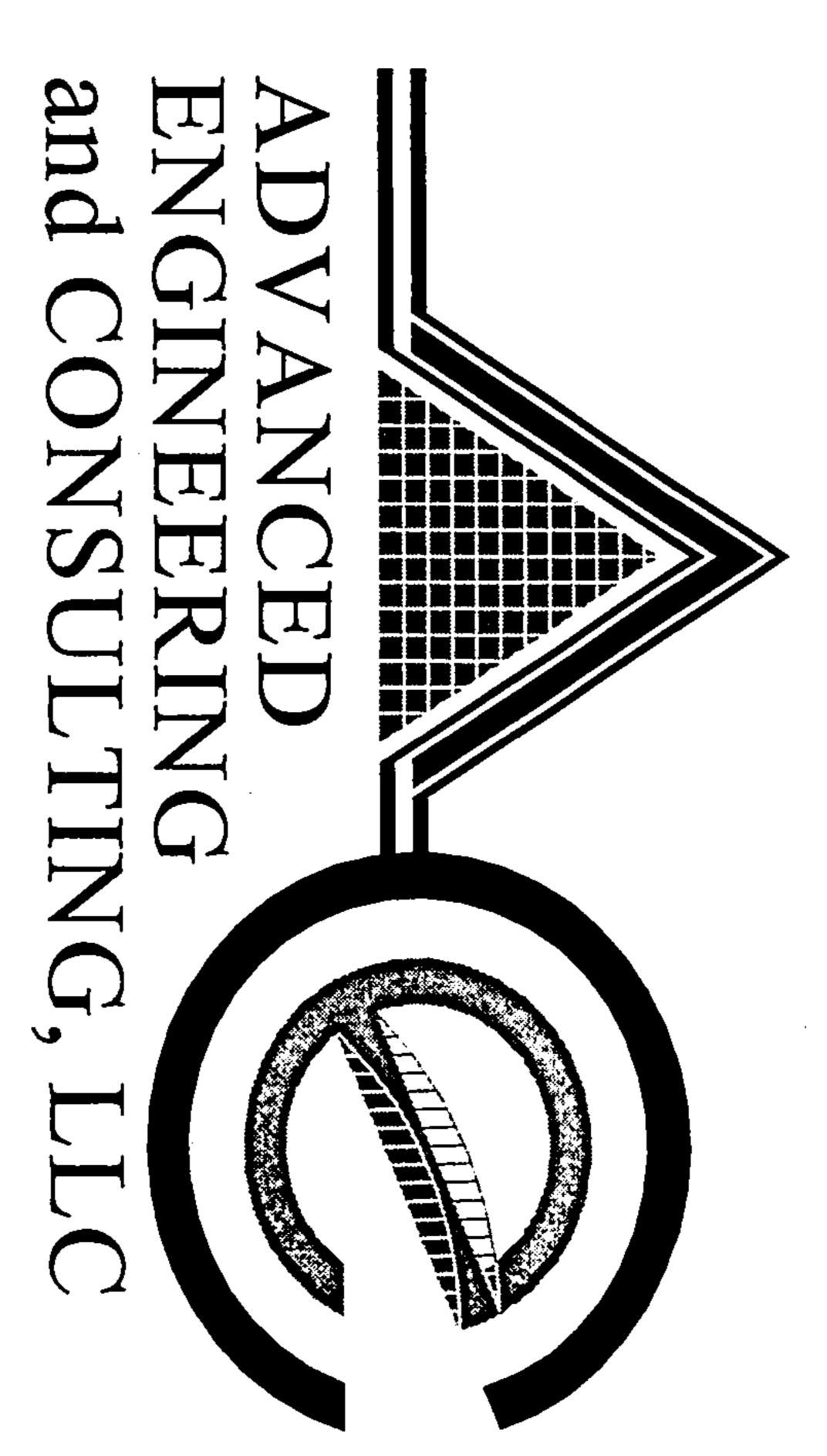
ling permits, grading permits, paving permits and site plans

less than five (5).

DRAINAGE REPORT FOR

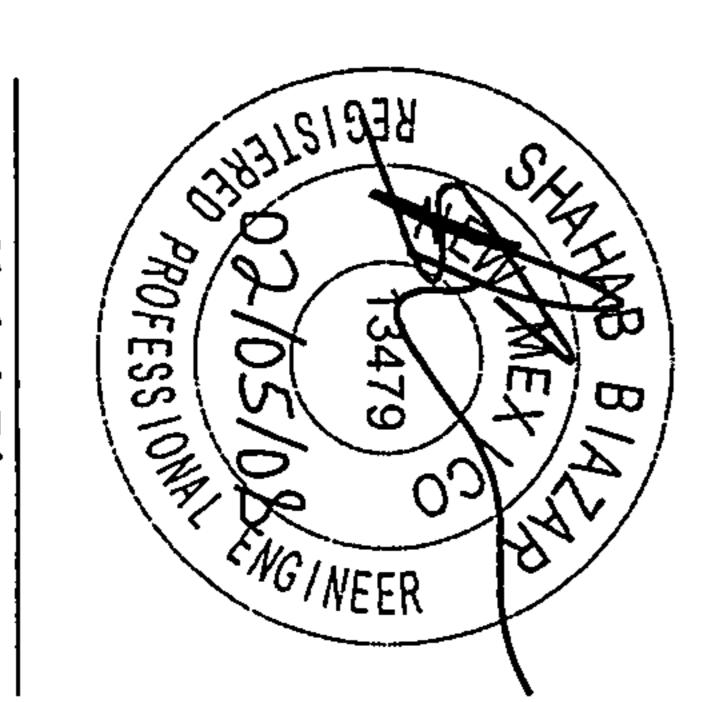
(2) IRP ORT INDUSTRIA PARK (2428 M

Prepared by:

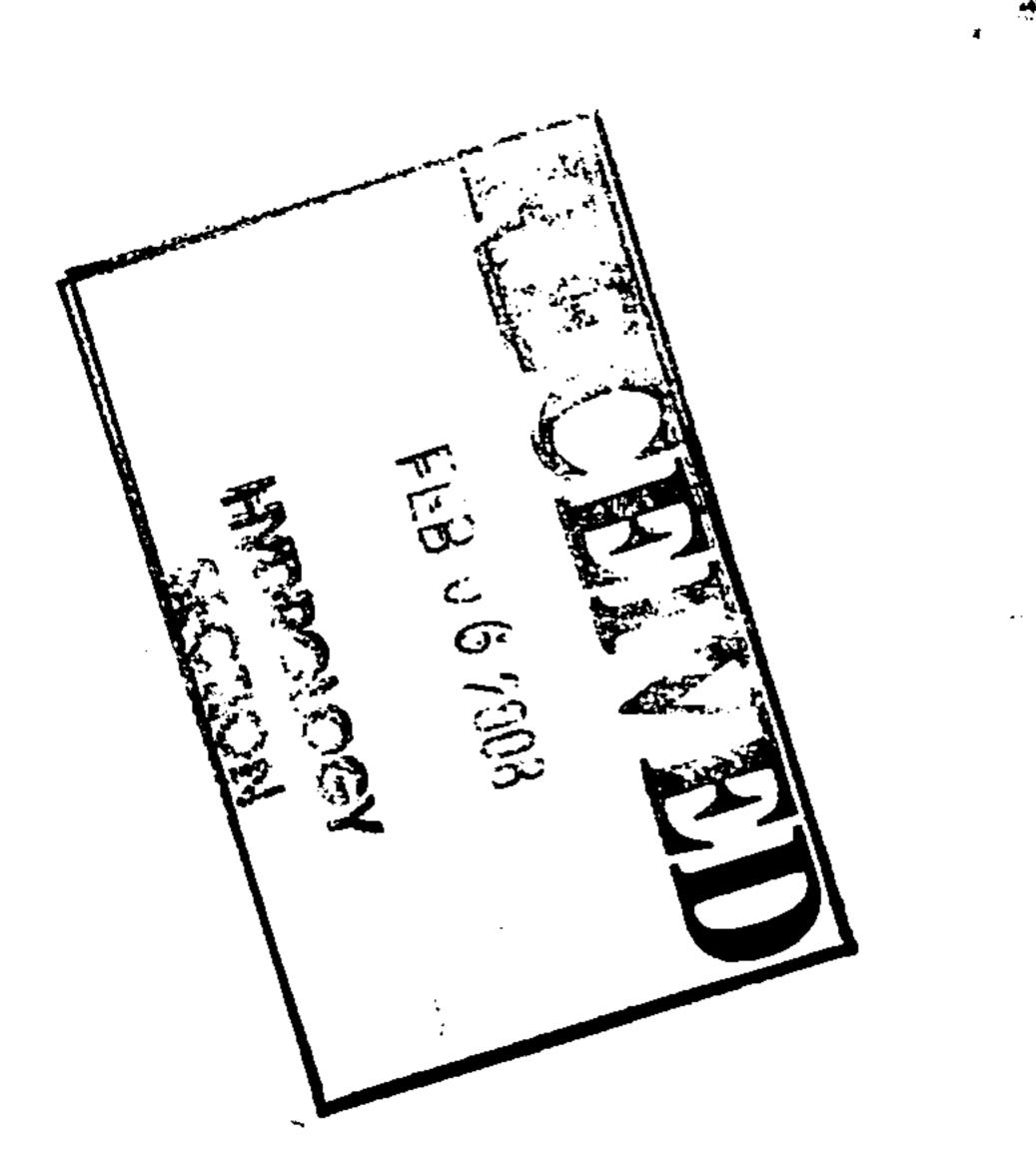


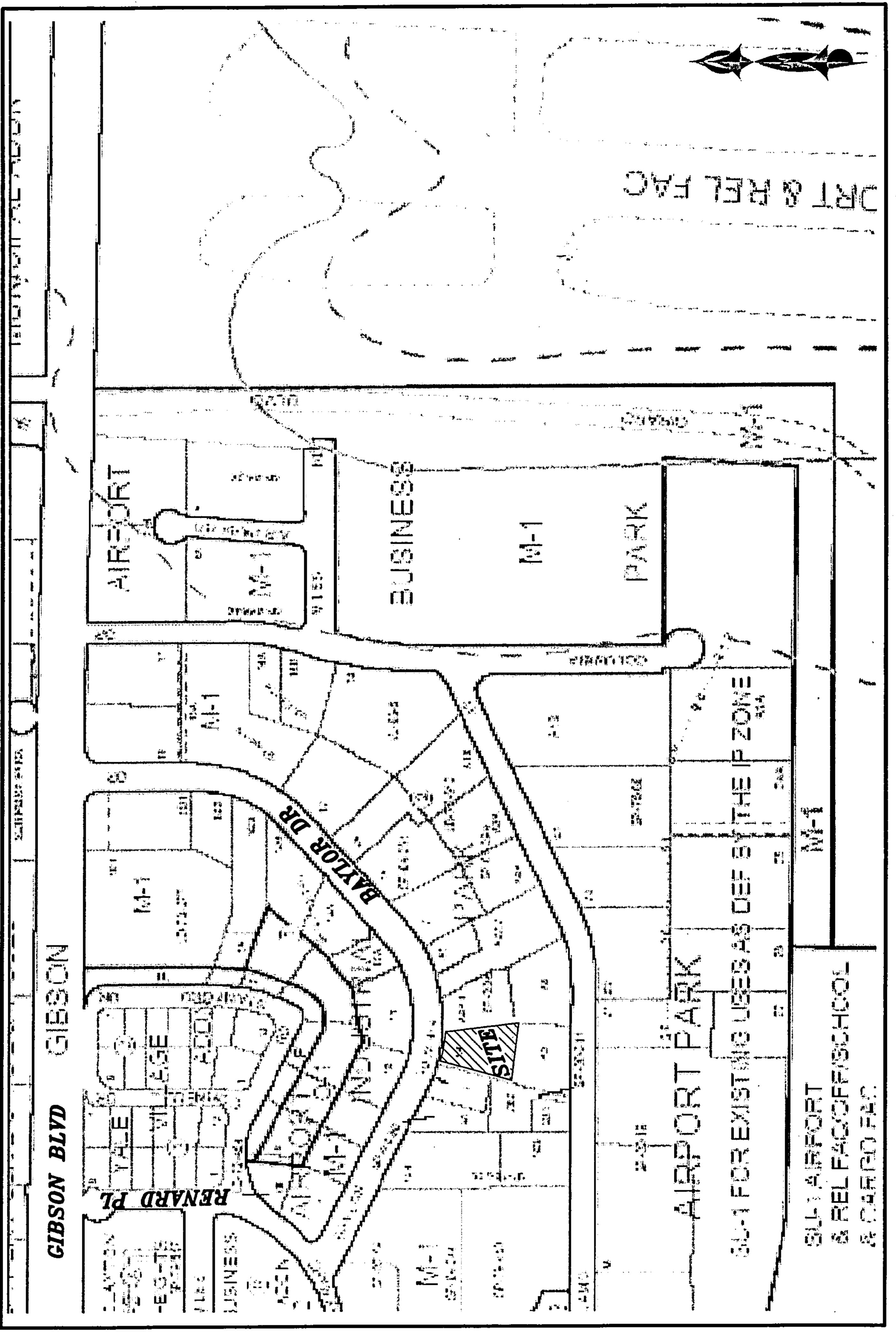
4416 Anaheim Ave., NE Albuquerque, New Mexico 87113

February, 2008



Shahab Biazar PE NO. 13479





Location

portion of the irport Industrial Atlas page number M-16 for exact Park is located at 2428 Ю

Purpose

pproval for proposed proposed addition. drainage report We are requesting rough Grading is to present grading Permit **Building Permit**

Existing Drainage Conditions

the site. drains to The an site does not retention pond at the south corner the site. has fall within a 100-year floodplain. a building with parking and landscaping. No offsite runoff runoff enters from the

Site Drainage Management Plan

tention pond sterly) boundary pattern will remain the line. The same. runoff will drain The runoff will drain to pond a new via storm

intercept some of the runoff year/10-day storm. by a new trench drain. system and surface to An existing new the and then it will drop inlet proposed retention pond. trench drain located in front is. also drain being proposed in it to the The retention of the pond the buil is back where designed for the 100ding will be replaced ting

Calculations

runoff calculations. was used for runoff calculations. this report for elopment Process See this report for Manuel, Summary Table input r runoff results. Hydrology Section, output files for See

RUNOFF CALCULATIONS

(INPUT DATA FOR AHYMO CALCULATIONS)

The site is @ Zone 2

DEPTH (INCHES) @ 100-YEAR STORM

 $P_{60} = 2.01 \text{ inches}$

 $P_{360} = 2.35$ inches

= 2.75 inches

DEPTH (INCHES) @ 10-YEAR STORM

 $P_{60} = 2.01 \times 0.667$

= 1.34 inches

-

.

 $P_{360} = 1.57$

 $P_{1440} = 1.83$

ee the summary output from AHYMO calculations.

RUNOFF CALCULATION RESULTS

0.000818	0.5235	22802.63	ON-SITE
AREA (MI ²)	AREA (AC)	AREA (SF)	BASIN

RICAL (Undereloped:

•

100%, 0%, 0%, 0%	0.20	0.82	ON-SITE
A, B, C, D	CFS	CFS	
TREATMENT	Q-10	Q-100	BASIN

PROPOSED

85%	0%, 5%, 8	⊢	0%	1.48	2.31	ON-SITE
D	C,	B,	A,	CFS	CFS	
	EATMENT	[REA]		Q-10	Q-100	BASIN

AHYMO INPUT FILE

THO. HUUU IIX MAUU XAINKA *****************	ガーコココココン・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・
HYD NO=112.0 AREA=0.000 A=0.00 PER B=10.00 PER C	COMPUTE NM HYD
TIME=0.0 TYPE=1-RAIN QUARTER=0.0-IN RAIN ONE=1.34 IN RAIN SIX=1.57 IN RAIN DAY=1.83 IN DT=0.03333 HR	┪
-HR STORM (UNDER PROPOSED CONDITIO ***********************************	* ***********************************
ID=1 HYD NO=111.0 AREA=0.000818 SQ MI PER A=0.00 PER B=10:00 PER C=5.00 PER D=85:00 TP=0.1333 HR MASS RAINFALL=-1 ************************************	* ON-STIE COMPUTE NM HYD ************************************
TIME=0.0 TYPE=1 RAIN QUARTER=0.0 IN RAIN ONE=2.01 IN RAIN SIX=2.35 IN RAIN DAY=2.75 IN DT=0.03333 HR	ALT E
-HR ST	* ************************************
SQ MI 00 PE	UTE NM HY
	* ON-SITE
IME=0.0	START
RM (UNDER EXISTING CONDITION ************************************	* ************************************
101.0 AREA=0.000818 S PER B=0.00 PER C=0.0 MASS RAINFALL=-1 ************************************	* *
AIN ONE=2.01 IN RAIN SIX=2.35 AIN DAY=2.75 IN DT=0.03333 HR	S I
ME=0.0 PE=1 RAIN QUARTER=0.0 IN	START
*************************************	* ZONE 2 ************************************

		18 Jan		185		
	RAINFALL TYPE= COMPUTE NM HYD FINISH	AH WN	RAINFALL TYPE=	ALL TYPE TE NM HYD	COMMAND	AHYMO PROGRAM I
	1	DE X	 	X	IDENTI	SUMMARY 01
	112.00	111.00	102.00	101.00	HYDROGRAPH	TABLE
	J	i	I	1	FROM ID	_ОМХНЧ)
	j— •	} -}	1		TO.	97) –
	.00082	.00082	.00082	.00082	AREA (SQ MI)	
	1.48	2.31	.20	. 82	DISCHARGE (CFS)	- - -
	.052	.084	.005	.023	RUNOFF VOLUME (AC-FT)	ERSION: 1997
	1.18863	1.93022	.12517	.53121	RUNOFF (INCHES)	. 02d U
	1.500	1.500	1.533	1.533	TIME TO PEAK (HOURS)	RUN DATE (USER NO.= P
•	2.830	4.411	. 376	1.570	CES PER ACRE	(MON/DAY/YR) = AHYMO-I-9702c0
	TIME= RAIN6= PER IMP=	RAIN6= PER IMP=	RAIN6= PER IMP=	TIME= RAIN6= PER IMP=	PAGE =	/YR) =01/28/2 9702c01000R31
	1.570 85.00	2.350	1.570	2.350	ğ 1	3/2008 331-AH

.

AREA RM ASSUMING N 50% HH

at the grate:

$$L = 38.375" - 7 (1/2"_{middle bars})$$

$$= 34.875"$$

$$= 2.906'$$

W =
$$25.5$$
" - $13 (1/2 \text{ middle bars})$
= 1.583 '

Effective Area =
$$4.601 - 0.5$$
 (4.601)
= 2.30 ft²

ft²

•

0

(2gh)

cfs > cfs

capacity calculations were done using the orifice equation.

lculation Using Orifice

√2gh

(minimum head, 1' above the inlet)

 $0.60 \times$ $(2 \times 32.2 \times 3.50)$

•

•

(developed flow

•

•

.

•

.

capacity calculations were done using the orifice equation.

3" Pipe Flow Capacity Calculation Using Orifice Equation

Orifice Equation:

$$Q = CA \sqrt{(2gh)}$$

h (head) = 2.26' (minimum head, invert to the grate)

A = 0.1111 sf

g = 32.2(

$$2 = 0.60 \times 0.1111 \times \text{V}$$
 (2 x 32.2 x 2.26)

p = 2.53 cfs > 2.31 cfs (developed flow for the entire site)

2.666 1.255 1.355

•

(UNDER PROPOSED CONDITIONS)

DRAINAGE BASINS

	ON-SITE	SUB-BASIN
	22,802.63	AREA (SF)
	0.5235	AREA (AC-FT)
1	0.000818	

$$E = EA(AA) + EB(AB) + EC(AC) + ED(AD)$$

$$AA + AB + AC + AD$$

$$V-360 = E(AA + AB + AC + AD)$$

V-10 Day = V-360 + AD (P-10 Day - P-360) / 12 in/ft

•

$$P-60 = 2.01$$
 $P-360 = 2.35$
 $P-1440 = 2.75$
 $P-10 Day = 3.95$

10 DAY =	7-10 Day =	AD=	V-360 =	₹
6,264.07	0.1438	0.4450	0.0845	1.9365
CF	AC-FT	AC	AC-FT	IN

POND CALCULATIONS PROPOSED RETENTION POND

		PONDING VOLUME REQUIRED (100-YR / 10-DAY STORM) =	PONDING VOLUME
0.1493	6,504.34	TOTAL PONDING VOLUME PROVIDED (@ ELEV. 5241) =	TOTAL PONDING
		6504	
0.0243	1,057.94	5,237.00 } to 58	528.97
		5,237.00)	1,059.95
0.0730	3,177.84	5,239.00 }	1,059.95
0.1475	0,007.07	5,239.00 \ 3326	1,663.25
0 1 4 0 2	72 VOS 9	5.241.00 7	1,663.25
VOLUME (AC	VOLUME (CF)	ELEVATION (FT)	SURFACE AREA (SF)

Took !