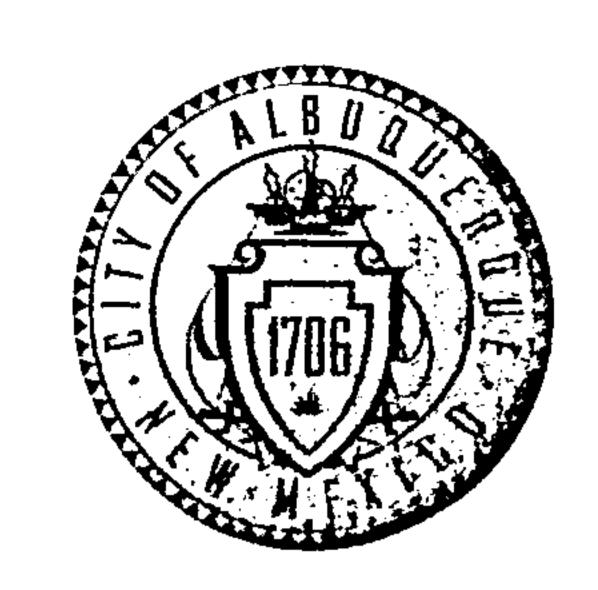
November 13, 2008

Mike Walla, P.E.
Walla Engineering, LTD
6100 Indian School NE
Albuquerque, NM 87110



Re: Lovelace Hospital Storage Addition

University Heights Hospital Lot M-1

Grading and Drainage Plan

Engineer's Stamp dated 11-06-08 (F-17/D010)

Dear Mr. Walla,

Based upon the information provided in your submittal received 11-07-08, the above referenced plan is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

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

PO Box 1293

Sincerely,

Albuquerque

Mo E Salgadø-Fernandez, P.E.

Senior Engineer, Planning Dept.

Development and Building Services

NM 87103

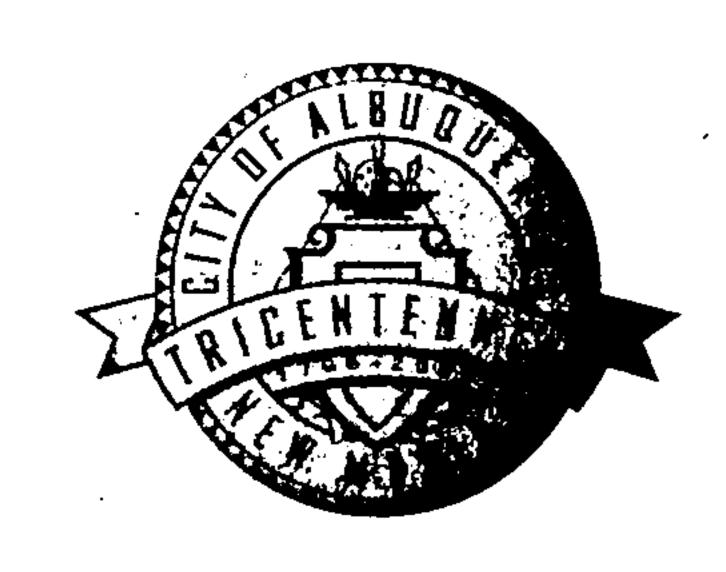
**C**:

File

www.cabq.gov

# DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV. 1/28/2003rd)

PROJECT TITLE: LOVELACE HOSPITAL STORIGE AND	
DRB #:EPC#:	_WORK ORDER#:
LEGAL DESCRIPTION: UNIVERSITY HEIGHTS HOSPITAL LY CITY ADDRESS:	ot M-1, Benjalice County, UM
ENGINEERING FIRM: WALLA ENGINEERING, LITD  ADDRESS: 6100 INDIAN SCHOOL RD 12	CONTACT: MIKE WALLA PHONE: 881-3008
CITY, STATE: XEBUO, UM	ZIP CODE: 8710
OWNER: LOVELAGE WOMEN'S HOWITH	CONTACT:PHONE:
CITY, STATE:	ZIP CODE:
ARCHITECT: MYDER GRUMMER	CONTACT:
ADDRESS: 33 WELLESLEY PL WE CITY, STATE: ALBUQ, NM	PHONE: 265-2507- ZIP CODE: 87-106
SURVEYOR:	CONTACT:
ADDRESS	PHONE:
CITY, STATE:	"ZIP CODE:
CONTRACTOR: GEAR I CANON	CONTACT:
ADDRESS:	PHONE:
CITY, STATE: WECK, LIM	ZIP CODE:
	CHECK TYPE OF APPROVAL SOUGHT:
DRAINAGE REPORT  DRAINAGE PLAN 1** SUBMITTAL, REQUIRES TCL or equal  DRAINAGE PLAN RESUBMITTAL.  CONCEPTUAL GRADING & DRAINAGE PLAN  GRADING PLAN  EROSION CONTROL PLAN  ENGINEER'S CERTIFICATION (HYDROLOGY)  CLOMR/LOMR  TRAFFIC CIRCULATION LAYOUT (TCL)  ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)  OTHER  WAS A PRE-DESIGN CONFERENCE ATTENDED:  YES  NO  COPY PROVIDED	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 BUILDING PERMIT APPROVAL CERTIFICATE OF OCCUPANCY (PERM.) CERTIFICATE OF OCCUPANCY (TEMP.) GRADING PERMIT APPROVAL PAVING PERMIT APPROVAL WORK ORDER APPROVAL OTHER (SPECIFY) NOV 6 7 2008 HYDROLOGY SPATIEINLOGY
DATE SUBMITTED: 11708 BY:	Muk und SECTION
Requests for approvals of Site Development Plans and/or Subdivision The particular nature, location and scope of the proposed development of the following levels of submittal may be required based on the 1. Conceptual Grading and Drainage Plan: Required for ap (5) acres and Sector Plans.  2. Drainage Plans: Required for building permits, grading per acres.  3. Drainage Report: Required for subdivisions containing more.	ment defines the degree of drainage detail. One or following: proval of Site Development Plans greater than five mits, paving permits and site plans less than five (5)



August 24, 2007

Scott Mc Gee, P.E.

Isaacson & Arfman, P.A.

128 Monroe Street NE

Albuquerque, NM 87108

Re: Lovelace Women's Hospital of New Mexico, 4701 Montgomery Blvd. NE,

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

Engineer's Stamp dated 11/02/06 (F-17/D010)

Certification dated 08/23/07

Dear Mr. McGee,

P.O. Box 1293

Based upon the information provided in your submittal received 08/23/2007, the above referenced certification is approved for release of Permanent Certificate of Occupancy by Hydrology.

Albuquerque

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

New Mexico 87103

Sincerely,

www.cabq.gov

Plan Checker-Hydrology, Planning Dept.

Development and Building Services

C:

CO Clerk

File

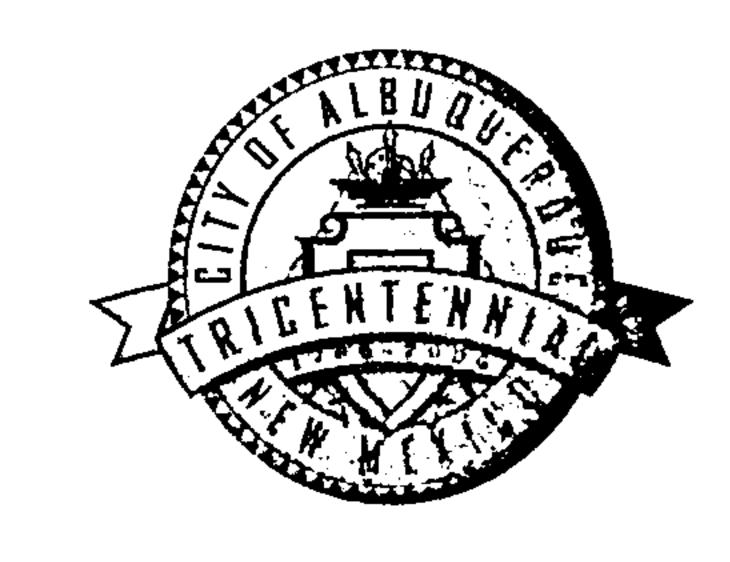
#### DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT	TTTLE: Lovelace Women's Hospit	al of NM					
	DESCRIPTION: A portion of Tract NonESS: 4701 Montgomery BLVD	• •	City of Albuquerque				
CITTAD	DICESS. 4701 INTUITIEURIEI Y DE VE	1412					
ENGINE	ERING FIRM: Isaacson & Arfman, I	P.A.	CONTACT: Bryan Bobrick				
	ADDRESS: 128 Monroe St. NE	<del> </del>	PHONE: 268-8828				
	CITY, STATE: Albuquerque, NM	,	ZIP CODE: 87108				
OWNER:	LOVELACE		CONTACT:				
<del></del> -	ADDRESS:		PHONE:				
	CITY, STATE:		ZIP CODE:				
ARCHIT	ECT Earl Swensson Assoc.		CONTACT: Mark Watson				
MICOILLI	ADDRESS: 2100 West End Ave V	anderbilt Plaza	PHONE				
	CITY, STATE: Nashville Tennesse		ZIP CODE: 37203				
er mazes	OD. Esuables of Companies a		CONTRACT. Dam Franchisco				
SURVEY	OR: Forstbauer Surveying  ADDRESS:	<del></del>	CONTACT: Ron Forstbauer				
	CITY, STATE: Albuquerque, New 1		PHONE: 268-2112 ZIP CODE:				
	CITT, STATE. Albuquerque, Ivew	VICAICO					
CONTRA	CTOR:		CONTACT:				
	ADDRESS:		PHONE:				
	CITY, STATE:		ZIP CODE:				
CHECK T	YPE OF SUBMITTAL:	•	CHECK TYPE OF APPROVAL SOUGHT:				
<del></del>	DRAINAGE REPORT		SIA / FINANCIAL GUARANTEE RELEASE				
	DRAINAGE PLAN 1 <sup>ST</sup> REQUIRES TCL	or equal	PRELIMINARY PLAT APPROVAL				
	DRAINAGE PLAN RESUBMITTAL		S. DEV. PLAN FOR SUB'D APPROVAL				
	CONCEPTUAL GRADING & DRAINA	GE PLAN	S. DEV. PLAN FOR BLDG. PERMIT APPR.				
	GRADING PLAN		SECTOR PLAN APPROVAL				
	EROSION CONTROL PLAN ENGINEER'S CERTIFICATION (HYDI	OI OGV)	FINAL PLAT APPROVALFOUNDATION PERMIT APPROVAL				
———	CLOMR / LOMR	COLOGIA	BUILDING PERMIT APPROVAL				
	TRAFFIC CIRCULATION LAYOUT (TO	C1.)	CERTIFICATE OF OCCUPANCY (PERM)				
	ENGINEER'S CERTIFICATION (TCL)	J	CERTIFICATE OF OCCUPANCY (TEMP)				
<del></del>	ENGINEER'S CERTIFICATION (DRB	APPR. SITE PLAN)	GRADING PERMIT APPROVAL				
	OTHER		PAVING PERMIT APPROVAL				
			WORK ORDER APPROVAL				
			OTHER				
WAS A P	RE-DESIGN CONFERENCE ATTE	NDED:					
	YES						
	NO						
	COPY PROVIDED						
			HYDROLOGY SECTION				
Ly value ax	JBMITTED: Thursday, AUGUS	T 23.2007					
DAIESC	DIMITIED: Indisday, F. J. W. D.		BY: Isaacson & Arfman, P.A.				

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



## Planning Department Transportation Development Services Section

August 23, 2007

Scott M. McGee, P.E. 128 Monroe St. NE Albuquerque, NM 87108

Re:

Certification Submittal for Final Building Certificate of Occupancy for

Lovelace Women's Hospital N.I.C.U. Addition, [F-17 / D10]

4701 Montgomery NE

Engineer's Stamp Dated 08/23/07

Dear Mr. McGee:

Singerely,

P.O. Box 1293

The TCL / Letter of Certification submitted on August 23, 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.

Albuquerque

New Mexico 87103

www.cabq.gov

Nilo E. Salgado-Fernandez, P.E.

Senior Traffic Engineer

Development and Building Services

Planning Department

C:

Engineer
Hydrology file
CO Clerk

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

RANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd) Women's Hospital NICU shell

PROJECT TITLE: Lovelace Women's Hospital of NM  DRB #:_ 1003804 EPC #:	ZONE MAP / DRG. FILE #: F-17 / D10				
DRB #:EPC #:	WORK ORDER #:				
LEGAL DESCRIPTION: A portion of Tract M-1, University Heights H	Inchital City of Albuquerous				
CITY ADDRESS: 4701 Montgomery BLVD NE	tospital, City of Albuquerque				
ENGINEERING FIRM: Isaacson & Arfman, P.A.	CONTACT: Bryan Bobrick				
ADDRESS: 128 Monroe St. NE	PHONE: 268-8828				
CITY, STATE: Albuquerque, NM	ZIP CODE: 87108				
OWNER: LOVELACE	CONTACT:				
ADDRESS:	PHONE:				
CITY, STATE:	ZIP CODE:				
ARCHITECT Earl Swensson Assoc.	CONTRACT: Marle Water				
ADDRESS: 2100 West End Ave Vanderbilt Plaza	CONTACT: Mark Watson				
CITY, STATE: Nashville Tennessee	PHONE PHONE				
CHII, STATE. Nashville Tellilessee	ZIP CODE: <u>37203</u>				
SURVEYOR: Surveys Southwest LS # 8686	CONTACT: Dan Graney				
ADDRESS: 333 Lomas NE	PHONE: 998-0303				
CITY, STATE: Albuquerque, New Mexico	ZIP CODE: 87102				
CONTRACTOR:	CONTACT:				
ADDRESS:	PHONE:				
CITY, STATE:	ZIP CODE:				
CHECK TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:				
DRAINAGE REPORTDRAINAGE PLAN 1 <sup>ST</sup> REQUIRES TCL or equal	SIA / FINANCIAL GUARANTEE RELEASE				
DRAINAGE PLAN I REQUIRES I CL or equal  DRAINAGE PLAN RESUBMITTAL	PRELIMINARY PLAT APPROVAL				
DRAINAGE PLAN RESUBINITIAL  CONCEPTUAL GRADING & DRAINAGE PLAN	S. DEV. PLAN FOR SUB'D APPROVAL S. DEV. PLAN FOR BLDG. PERMIT APPR.				
GRADING PLAN	SECTOR PLAN APPROVAL				
EROSION CONTROL PLAN	FINAL PLAT APPROVAL				
ENGINEER'S CERTIFICATION (HYDROLOGY)	FOUNDATION PERMIT APPROVAL				
CLOMR / LOMR	BUILDING PERMIT APPROVAL				
TRAFFIC CIRCULATION LAYOUT (TCL)	XXCERTIFICATE OF OCCUPANCY (PERM)				
ENGINEER'S CERTIFICATION (TCL)	CERTIFICATE OF OCCUPANCY (TEMP)				
XX ENGINEER'S CERTIFICATION (DRB APPR, SITE PLAN)	GRADING PERMIT APPROVAL				
OTHER	PAVING PERMIT APPROVAL				
	WORK ORDER APPROVAL				
	厅 <u>管</u> 即例				
WAS A PRE-DESIGN CONFERENCE ATTENDED:					
YES	In AUG 2 3 2007				
NO	AUG Z 3 ZUU!   U				
COPY PROVIDED					
	LAND DEVELOPMENT SECTION				
DATE SUBMITTED: Thursday, August 23, 2007	BY: Isaacson & Arfman P A				

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 acres or more.

## ISAACSON & AREMAN, P.A.

## Consulting Engineering Associates

Thomas O. Isaacson, PE & LS • Fred C. Arfman, PE Scott M. McGee, PE

August 23, 2007

Mr. Nilo Salgado-Fernandez, PE
Senior Engineer
Transportation Development Coordination
Planning Department
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

RE: Lovelace Women's Hospital N.I.C.U. Addition

(DRB No. 1003804 - 4701 Montgomery Blvd. NE)

10519

Site Plan Certification

Dear Mr. Salgado-Fernandez:

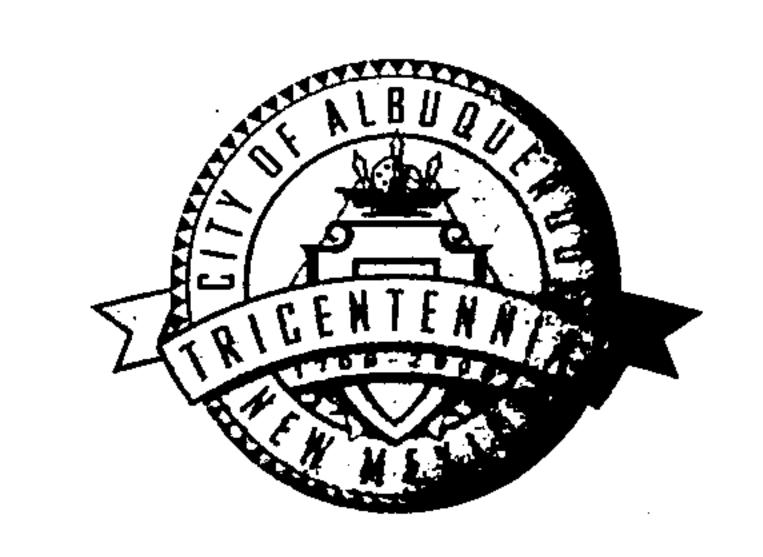
I, Scott M. McGee, NMPE No. 10519, of the firm Isaacson & Arfman, P.A., hereby certify that this project has been constructed and will function in substantial compliance with and in accordance with the design intent of the approved Site Plan (Administrative Amendment Approval dated 11/17/06).

Sincerely,

ISAACSON & ARFMAN, P.A.

Scott M. McGee, PE

SMM/rtl



November 13, 2006

Jeffrey Todd Wooten, P.E. Wooten Engineering, LTD. 5017 Sanbusco Dr. NE Rio Rancho, NM 87144

Re:

Women's Hospital of New Mexico, Engineer's Stamp dated 11-6-06 4701 Montgomery NE Building Addition (F17/D10)

Dear Mr. Wooten,

Based upon the information provided in your submittal received 11-7-06, the above referenced plan is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

P.O. Box 1293

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

Sincerely,

Albuquerque

Jeremy Hoover, P.E.

·New Mexico 87103

Senior Engineer

Hydrology Section

Development and Building Services

www.cabq.gov

cc:

file

(F17/D10)

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/11/2002)

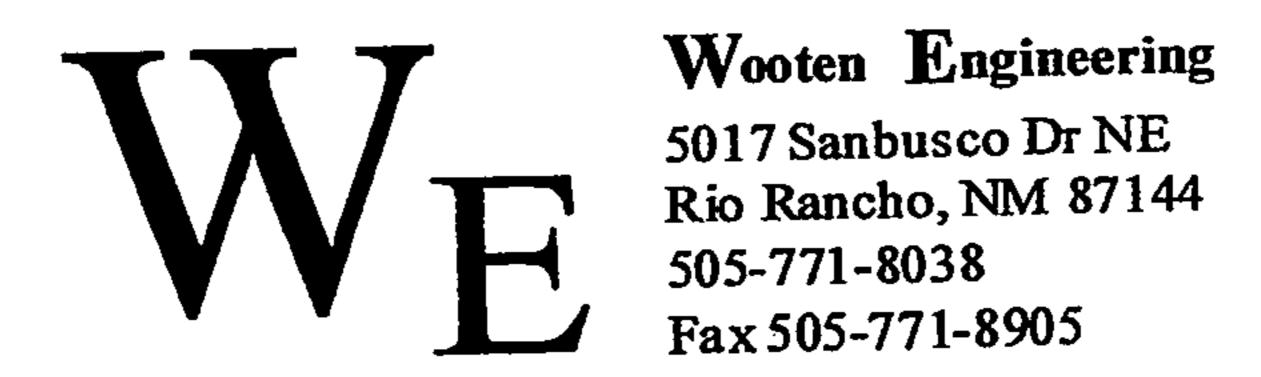
PROJECT TITLE: Women's Hospital of New Mexico  EPC#:	ZONE MAP/DRG. FILE #F-17/DID WORK ORDER#:
ORB #:EPG#:	
EGAL DESCRIPTION: Tract M-1, University Heights Hospital	······································
CITY ADDRESS: 4701 Montgomery Blvd	
	CONTACT: Jeff Wooten
NGINEERING FIRM: Wooten Engineering  FO47 Combused Dr NE	PHONE: (505) 771-8038
ADDRESS: 5017 Sanbusco Dr NE CITY, STATE: Rio Rancho, NM	ZIP CODE: 87144
CHT, STATE. MOTALISMO, INT.	
OWNER:	CONTACT:
ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
ARCHITECT: KGA Architects	CONTACT: Bill Santiana
ARCHITECT: KGA Architects ADDRESS: 214 Truman St	PHONE: 255-4975
CITY, STATE: Albuquerque	ZIP CODE:87108
	CONITACT.
SURVEYOR:	CONTACT:PHONE:
ADDRESS:	ZIP CODE:
CITY, STATE:	
CONTRACTOR:	CONTACT:
ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
CHECK TYPE OF SUBMITTAL:  DRAINAGE REPORT  X DRAINAGE PLAN  CONCEPTUAL GRADING & DRAINAGE PLAN  GRADING PLAN  EROSION CONTROL PLAN  ENGINEER'S CERTIFICATION (HYDROLOGY)  CLOMR/LOMR  TRAFFIC CIRCULATION LAYOUT (TCL)  ENGINEERS CERTIFICATION (TCL)  ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)  X OTHER (Plan Revision)	CHECK TYPE OF APPROVAL SOUGHT:  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:  YES X NO COPY PROVIDED	NOV - 7 2006 HYDROLOGY SECTION
DATE SUBMITTED: November 6, 2006	BY: Jeff Wooten

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.



Wooten Engineering Fax 505-771-8905

November 6, 2006

Jeremy Hoover City of Albuquerque - Hydrology Division Plaza Del Sol Albuquerque, New Mexico 87103

Re:

Women's Hospital of New Mexico (F17/D10) 4701 Montgomery NE Building Addition

## Dear Jeremy:

We have received your comments dated October 30, 2006 and appreciate your prompt response. We apologize for having a City of Rio Rancho reference on the plans. The reference has been corrected to read The City of Albuquerque. Please accept the attached revised plan and approve it as necessary.

If there is anything else you need from us in the meantime, please let me know.

Respectfully submitted,

Jeffrey T. Wooten, P.E.

Owner

JTW/jtw

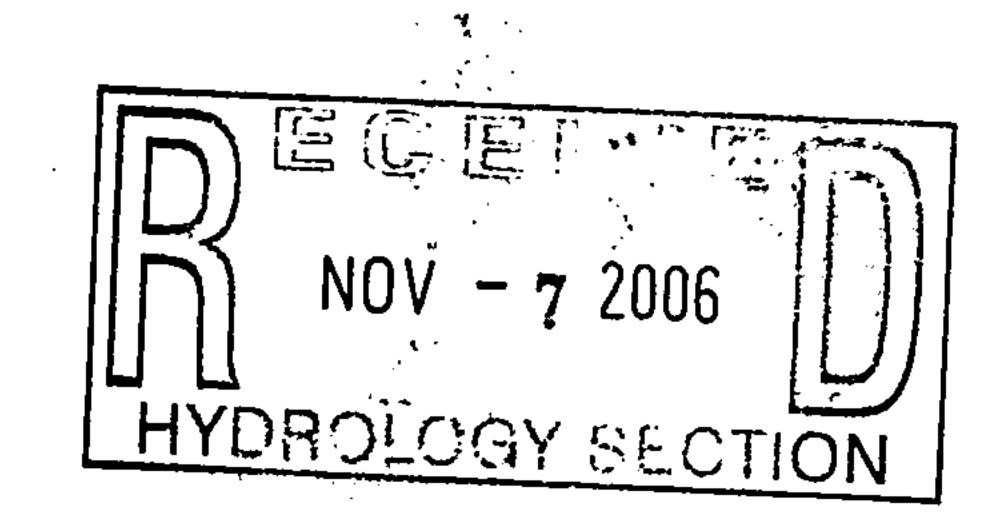
HYDROLOGY SECTION

# Letter of Transmittal

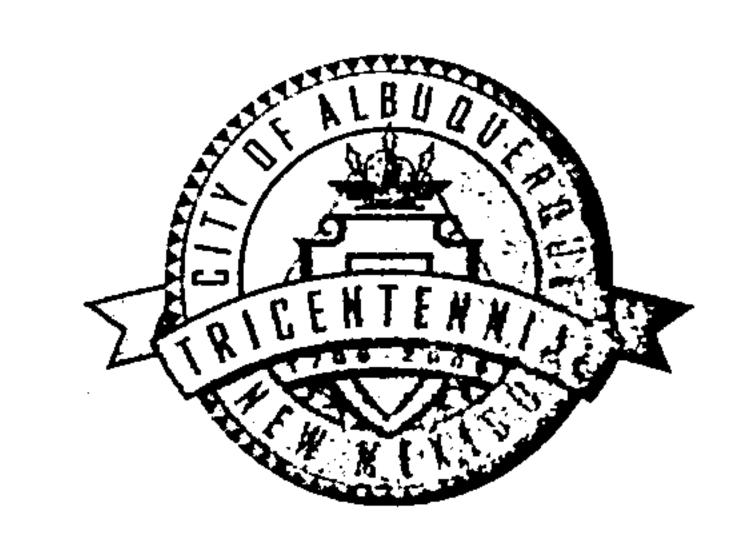
To:	Arlene Port City of Albu Plaza Del S	iquerque - Hydrology		Date: Job No.: Re:	Monday, November 06, 2006 2006036 Women's Hospital of New Mexico			
					Received By: Date:			
WE	ARE SENI	ING YOU:		/ia: Hand i	Delivery			
⊠As	s requested		For review/	comment	For approval/signature (please return)			
•	Copies	Description						
	1	Revised Copy of Grading Plan	n for Building P	ermit Appro	val			
	1	Letter to Jeremy Hoover						
	1	Drainage Info Sheet						
Rer	marks:							
We	ene, have addranks,	essed Jeremy's comments						
Co	ру То: <u>К</u> С	Α	•	By:	y Vobten, P.E.			
	Corresponde Reader File				otify us at once			
		ir enclosures a		a, Killary III				

Wooten Engineering
5017 Sanbusco Dr NE
Rio Rancho, NM 87144

505-771-8038 Fax 505-771-8905



APortitio-110606.doc



March 22, 2007

Jeffrey T. Wooten, P.E. Wooten Engineering 5017 Sanbusco Dr NE Rio Rancho, NM 87144

Re: Women's Hospital, 4701 Montgomery, Approval of Permanent Certificate of Occupancy (C.O.), Engineer's Stamp dated 11/06/06 (F-17/D010)

Certification dated 3/21/07

Based upon the information provided in your submittal received 3/22/07, 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.

Albuquerque

Sincerely,

Timothy Sims

New Mexico 87103

Plan Checker - Hydrology

Development and Building Services

www.cabq.gov

C: CO Clerk-Katrina Sigala

File

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/11/2002)

PARKING LOT ER ADDITIO	pi /
PROJECT TITLE: Women's Hospital of New Mexico	ZONE MAP/DRG. FILE # $F-17/D^{10}$
DRB #:EPC#:	
LEGAL DESCRIPTION: <u>Tract M-1, University Heights Hospital</u> CITY ADDRESS: <u>4701 Montgomery Blvd</u>	
ENGINEERING FIRM: Wooten Engineering  ADDRESS: 5017 Sanbusco Dr NE CITY, STATE: Rio Rancho, NM  OWNER:  ADDRESS: CITY, STATE: KGA Architects ADDRESS: 214 Truman St	CONTACT: Jeff Wooten PHONE: (505) 771-8038  ZIP CODE: 87144  CONTACT: PHONE: ZIP CODE:  CONTACT: Bill Santiana PHONE: 255-4975
CITY, STATE: Albuquerque	ZIP CODE: 87108
SURVEYOR: ADDRESS: CITY, STATE: CONTRACTOR:	CONTACT: PHONE: ZIP CODE: CONTACT:
ADDRESS:CITY, STATE:	PHONE:
CHECK TYPE OF SUBMITTAL:  DRAINAGE REPORT  DRAINAGE PLAN  CONCEPTUAL GRADING & DRAINAGE PLAN  GRADING PLAN  EROSION CONTROL PLAN  X ENGINEER'S CERTIFICATION (HYDROLOGY)  CLOMR/LOMR  TRAFFIC CIRCULATION LAYOUT (TCL)  ENGINEERS CERTIFICATION (TCL)  ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)  OTHER (Plan Revision)	CHECK TYPE OF APPROVAL SOUGHT:  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 BUILDING 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:  YES X NO COPY PROVIDED  DATE SUBMITTED: March 21, 2007  BY:	MAR 2 2 2007 HYDROLOGY SECTION
DATE SUBMITTED: March 21, 2007 BY:_	

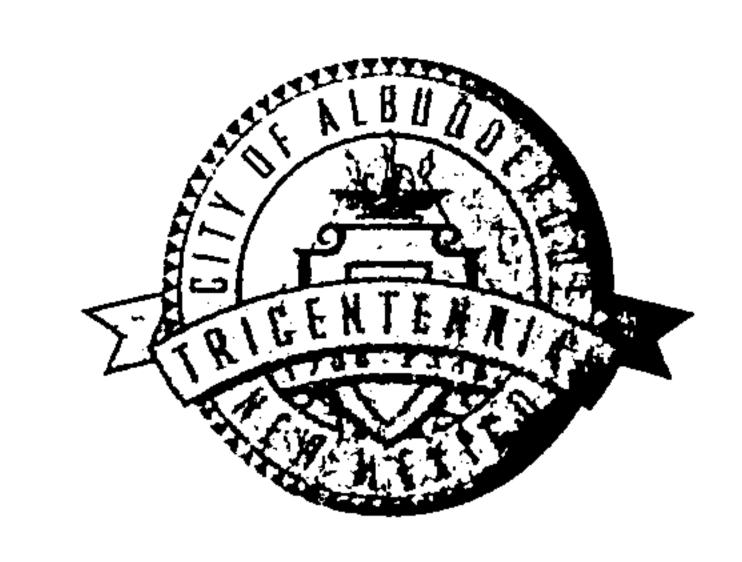
Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on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

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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.



## Planning Department Transportation Development Services Section

March 20, 2007

Kevin E. Georges, Registered Architect 214 Truman NE Albuquerque, NM 87108-1333

Re:

Certification Submittal for Final Building Certificate of Occupancy for

ER Expansion-Womens Hospital of NM(Lot M-1), [F-17 / D10]

4701 Montgomery NE

Architect's Stamp Dated 03/19/07

P.O. Box 1293

Dear Mr. Georges:

The TCL / Letter of Certification submitted on March 19, 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.

Albuquerque

www.cabq.gov

Sincerely,

New Mexico 87103

Nilo E. Salgado-Fernandez, P.E.

Senior Traffic Engineer

Development and Building Services

Planning Department

c:

Engineer
Hydrology file
CO Clerk

(Rev. 12/0:	5)
PROJECT TITLE: <u>ER EXPANSION-Womens Hospital of NM</u> DRB#: EPC#:	ZONE MAP/DRG. FILE # F-17-2 D ( WORK ORDER#:
DD 06DD 01477, 10038004	
LEGAL DESCRIPTION: Liniversity Height Hopfel Lot M-1	•
	VOUERGIR, NEW MEXICO
ENGINEERING FIRM: WOOTEN ENGINEERING	CONTACT: JEFF WOOTEN
ADDRESS: 5017 SANBUSTO Drive NE	PHONE: (505) 771-8083
CITY, STATE: <u>ALBUQUEEQUE</u> NEW MEXICO 87144	ZIP CODE: 87144
OWNER: Lomens Hospital of New Co	CONTACT: HANK HUMME
ADDRESS: 4701 MONTGOMERY BUND NE	PHONE: (505) 727-7776
CITY, STATE: SLBUGUEROUE NEW MOULO	ZIP CODE: 87109
ARCHITECT: KEVIN Georges and Associates	CONTACT: WILLIAM GANTIANA
ADDRESS: 14 TRUMAN GREGET NE	PHONE: (60S) 255 4975
CITY, STATE: <u>ALBUQUERQUES NEW MEWILD 87)08</u>	ZIP CODE: 87108
SURVEYOR:	CONTACT:
ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
CONTRACTOR: PLATINUM BUILDERS ADDRESS: 3018 4th St. NW CITY, STATE: ALBUQUEROUE NM 87167	CONTACT: WAYNE MITCHELL PHONE: (505) 352-8837 ZIP CODE: 87107
TYPE OF SUBMITTAL:	PYME OF ADDROYAL COLORED
	FYPE OF APPROVAL SOUGHT:
	SIA/FINANCIAL GUARANTEE RELEASE
	PRELIMINARY PLAT APPROVAL
	S. DEV. PLAN FOR SUB'D APPROVAL S. DEV. FOR BLDG. PERMIT APPROVAL
	SECTOR PLAN APPROVAL
	FINAL PLAT APPROVAL
	FOUNDATION PERMIT APPROVAL
	BUILDING PERMIT APPROVAL
	CERTIFICATE OF OCCUPANCY (PERM)
	CERTIFICATE OF OCCUPANCY (TEMP)
TO 707 7077 ( ) 5 07 7077 000 000 000 0 0 0 0 0 0 0 0 0	GRADING PERMIT APPROVAL
<u> </u>	PAVING PERMIT APPROVAL
	WORK ORDER APPROVAL
•	OTHER (SPECIFY)
WAS A PRE-DESIGN CONFERENCE ATTENDED:YESNO	D MAR 1 9 2007
COPY PROVIDĘD	SECTION
	HYDROLOGY SECTION
SUBMITTED BY: ///////////////////////////////////	

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

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

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



March 19, 2007

City of Albuquerque
Planning Department
Development Services Division
P.O. Box 1293
Albuquerque, New Mexico 87102

Re: Final Site Plan Certification for Traffic ER Expansion Women's Hospital of New Mexico 4701 Montgomery Blvd. NE Albuquerque, New Mexico

Legal Description: University Heights Hospital

Lot M-1

Bernalillo County, New Mexico

Zone Atlas Page No.: F - 17 - Z

To Whom it May Concern:

Please find the attached copy of the Site Plan as approved by Administrative Amendment on November 8, 2007. Note: Existing parking and traffic was not impacted or changed in any way with this addition, therefore a TCL Approval was not required.

I Kevin Georges, NMRA, of the firm Kevin Georges and Associates, hereby certify that this project is in substantial compliance with and in accordance with the design intent of the AA approved plan dated November 8, 2006. (There was no record information edited onto the original Design Document). I further certify that I have personally visited the Project Site on March 16, 2007 and have determined by visual inspection that the survey data provided is representative of actual site conditions and is true and correct to the best of my knowledge and belief. This Certification is submitted in support of a Request For Certificate Of Occupancy.

The record information presented hereon is not necessarily complete and intended only to verify substantial compliance of the traffic aspects of this project. Those relying on the record document are advised to obtain independent verification of its accuracy before using it for any other purpose.

Sincerely,

Kevin Georges, AIA Principal Architect

NM Architect 1471

GEORGES

REVINE.

GEORGES

No. 1471

GEORGES

ARCHIT

KEG/vg 2006.23\CA

Kevin Georges & Associates, PA . A Professional Association



# City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

August 22, 1994

James Topmiller
Bohannan Huston, Inc.
7500 Jefferson NE
Albuquerque, NM 87109

RE: CERTIFICATE OF OCCUPANCY RELEASE FOR ST. JOSEPH HOSPITAL WOMEN'S CENTER ADDITION (F-17/D10), ENGINEER'S STAMP DATED 7/25/94

Dear Mr. Topmiller:

Your 7/28/94 submittal is sufficient to approve Engineer's Certification for the referenced project. Also approved at this time is your Certification for the existing facility.

If I can be of further assistance, feel free to contact me at 768-3622.

Cordially,

Scott Davis

PWD, Hydrology Division

c: Andrew Garcia Lynda Michelle DeVanti File

 $(w_0+8180)$ 

## DRAINAGE INFORMATION SHEET

DRB #: EPC #:	WORK ORDER #:
LEGAL DESCRIPTION:	
CITY ADDRESS:	
ENGINEERING FIRM: BOHANNAN HUSTON, INC.	CONTACT: JAMES TOPMILLE
ADDRESS: 7500 JEFFERSON NE, ALB.	NM 87109 PHONE: 823-1000
OWNER: St. JOSEPH HOSPITAL	CONTACT: MEL LYERLA
ADDRESS: 400 WALTER NE	ALBUQ. PHONE:
ARCHITECT: 97102	CONTACT:
ADDRESS:	PHONE:
SURVEYOR:	CONTACT:
ADDRESS:	PHONE:
CONTRACTOR:	CONTACT:
ADDRESS:	PHONE:
	•
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
1	
	·
DRAINAGE REPORT	SKETCH PLAT APPROVAL
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July 21, 1994

Mr. Scott Davis Hydrology Division Public Works Department City of Albuquerque P.O. Box 1293 Albuquerque, NM 87103

Drainage Certification for St. Joseph's Hospital, Northeast Heights Location (F17-D10) Re:

Dear Scott:

The purpose of this letter is to submit to you a Drainage Certification plan for both the recent construction of the Women's Center at the above referenced site and a belated certification for the entire hospital complex.

Accordingly, the following certifications are made:

- Women's Center Certification. The enclosed plan identifies key as-built elevations of the completed construction on the Women's Center site. This as-built information and my field review indicate compliance with the approved Drainage/Grading plan on file with the City Hydrology Division's office. There were minor parking island reconfigurations since the approved plan but these do not affect the drainage plan.
- The entire hospital complex. The enclosed plan identified as the St. Joseph Northeast Heights Hospital Complex is an aerial topographic mapping of the complex immediately prior to the construction of the Women's Center. As-built elevations are reflected both by contours and by individual spot elevations at key locations. Drainage directions and detention ponds, as required by the approved plans, are indicated in the enclosed Certification Plan. Certification of substantial compliance with City approved plans is also verified by my field inspection of the site. Also enclosed are copies of the old plans prepared by Fred Denning & Associates for the pre-Women's Center Hospital Complex for your reference.

With these submittals and certifications, we request Certificate of Occupancy approval from the Hydrology Division. If I can provide additional information or answer any questions, please feel free to contact me at any time.

Sincerely,

Jam 2 Topinh James R. Topmiller, P.E.

Vice President

Community Development and Planning

JRT/jk Enclosure

Mark Wade, FMSM CC:

I:\CDP\9228447\DAVIS.LTR-7/21/94 PRINCIPALS

LARRY W. HUSTON, C.P. MICHIAL M. EMERY, P.E.

BRIAN G. BURNETT, P.E. KERRY L. DAVIS, P.E.

HOWARD C. STONE, P.E.

MARY E. CARTER GEORGE RADNOVICH, R.L.A. SILAS V. SUAZO

JAMES R. TOPMILLER, P.E.

JUL 2 8 1994

LARRY A. LARRAÑAGA, P.E. WILLIAM L. VREEKE, P.E.

GORDON A. WALHOOD, JR., P.E.



Mr. James Topmiller Bohannan Huston, Inc. 7500 Jefferson NE Albuquerque, NM 87109

# City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

December 21, 1993

RE: DRAINAGE & GRADING PLAN FOR ST. JOSEPH HOSPITAL WOMEN'S CENTER ADDITION (F-17/D10), ENGINEER'S STAMP DATED 10/29/93

Dear Mr. Topmiller:

Based upon the information supplied in your 12/17/1993 submittal, the plan is approved for Site Plan and Building Permit. Please be advised that prior to Certificate of Occupancy release, we will need Engineer's Certification per the Certification Checklist.

If I can be of further assistance, please feel free to call me at 768-3622.

Cordially

Scott Davis

PWD Hydrology Division

xc: Alan Martinez

(WP+8180)

5639 JEFFERSON STREET NE · ALBUQUERQUE, NEW MEXICO 87109 · PHONE (505) 344·4080 · FAX (505) 343·8759

## GRADING AND DRAINAGE PLAN

## FOR

## SAINT JOSEPH'S NORTHEAST HEIGHTS

## MEDICAL OFFICE BUILDING

ALBUQUERQUE, NEW MEXICO

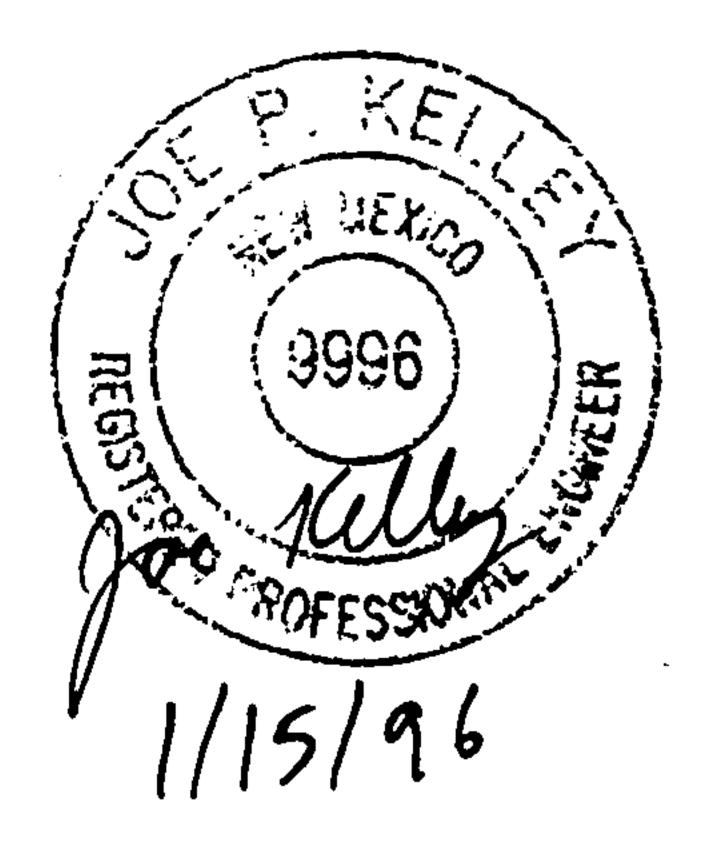
**JANUARY, 1996** 

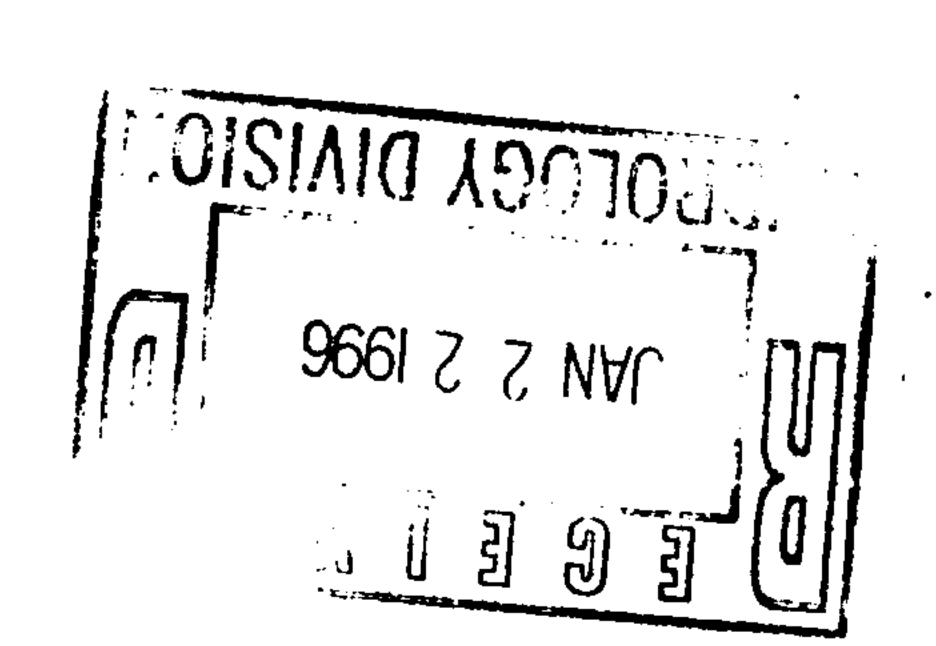
5639 JEFFERSON STREET NE · ALBUQUERQUE, NEW MEXICO 87109 · PHONE (505) 344·4080 · FAX (505) 343·8759

## GRADING AND DRAINAGE PLAN

## FOR

# SAINT JOSEPH'S NORTHEAST HEIGHTS MEDICAL OFFICE BUILDING





ALBUQUERQUE, NEW MEXICO

**JANUARY, 1996** 

### LOCATION

This site is located at 4701 Montgomery Blvd, NE in a developed part of the City.

## LEGAL DESCRIPTION

Tracts L and M of University Heights Hospital.

#### ZONING AND SURROUNDING DEVELOPMENT

The site is zoned SU-1 for a Hospital, and has been developed as such. Fully-developed streets abut the site on the south and north, a church/school site abuts the site on the west, and a shopping center abuts the site on the east.

## **FLOOD HAZARD ZONES**

As shown by Panel 3500020017 of the National Flood Insurance Rate Maps for the City of Albuquerque, dated October 14, 1983, the site is not in a designated flood hazard zone.

#### RELATED REPORTS

This site was originally developed in 1981 as the University Heights Hospital (F17/D-10). A Drainage Management Report was prepared at that time for the entire site by Fred Denney and Associates. The first phase of the hospital was then built, but no drainage certification was found in City Hydrology files. An addition was made to the facility in 1993: the St. Joseph's Northeast Heights Women's Center. The grading and drainage plan for that addition was prepared by Bohannan-Huston, who also provided a drainage certification for the whole site dated July 25, 1994 after the Women's Center was built.

#### EXISTING SITE CONDITIONS AND DRAINAGE PATTERN

The site has been developed in accordance with the original drainage plan. The majority of the roof runoff discharges to the pond via the underground storm drain system. Rainwater that collects on the surface discharges through the site via overland and underground flow to a detention pond on the west side of the property. The only part of the site that is currently undeveloped is the eastern 190', which is hard-packed dirt and rock with no vegetation. This part of the site is occasionally used for parking. A minor amount of off-site runoff discharges on-site from a 5-10' wide strip of land adjacent to the

east property line. Other than that, no off-site runoff discharges onto the property, and none is discharged off of the site, except via the detention pond.

#### PROPOSED SITE CONDITIONS AND DRAINAGE PATTERN

A three-story medical office building is proposed for construction as part of this project. This building will be built in an area that is covered primarily by impervious surfaces today. A paved parking lot is proposed for the remaining undeveloped part of the site. The proposed drainage pattern is in accordance with the existing pattern. It is also in accordance with the original 1981 Masterplan, which showed the western part of the site to be developed as impervious surfaces—a building and parking lot. Per the following table, the total impervious area actually constructed will be approximately the same as was originally projected in 1981. As can also be seen in the table, the total site area is actually less than was stated in the 1981 Masterplan. This means that the amount of runoff from the site as actually developed per this current plan will be less than was originally projected in 1981.

Land Treatment	1981 Masterplan	Ultimate Development
Roof	1.77	1.85
Paved	5.26	5.21
Total Type "D"	7.03	7.06
Landscaped	4.37	4.08
Natural	1.13	0.21
Grand Total	12.53 acres	11.35 acres
Runoff Volume	74,229 cu. ft.	66,287 cu. ft.

The new building juts out into the existing drainage pattern in such a way as to create two new low points. Type "C" inlets will be constructed at each of the low points. Basin A will produce 7.32 cfs, which will flow at a 0.52' depth into the new inlet at the low point of the basin. Basin B will produce 6.39 cfs, which will flow at a 0.48' depth into the new inlet at the low point in that basin. The grading plan has been designed such that if the inlets clog or the site experiences storms larger than the design storm, the excess runoff will flow overland in the driveways and will not present a flood hazard for the buildings.

Roof runoff from the new building will be collected by an internal storm drain system, which will be connected to the underground storm drain system. The exact routing of the new roof drains has not yet been determined, as the building is still under design.

A study of the underground storm drain system was done to determine its capacity. It appears that the storm drain has the capacity to discharge the 2 year frequency storm underground. For larger storms of lesser frequency, the paved surfaces of the parking lots and drives will discharge the excess runoff to the detention pond. A hydraulic grade line for the 2-year storm is included in the appendix. A hydraulic grade line of the 100-year storm was also computed for comparison purposes. The surcharging of the storm drain line occurs under existing conditions, and will not worsen under proposed conditions. Storm drain surcharges will not have a detrimental effect on the building or site. During larger storm events, the storm drain system will fill up, and the pressure head that develops in the roof drain pipes will push the roof runoff through the system. Because these lines are water tight, any potential back-up will have no ill effect on the buildings. Surface runoff from the parking lots in excess of the underground storm drain capacity will discharge to the west through the paved parking area south of the hospital, and will enter the detention pond. Emergency overflow routes have been provided for all runoff to insure that excess runoff will flow overland to the detention pond, and the buildings themselves will not be endangered during large storm events.

The new connecting pipes for the storm drains have been designed so that they have 100-year capacity under gravity conditions, even though the downstream storm drain does not. In this way, should the owner decide to upgrade the downstream system at a later date, the new portions of the system will already be sufficiently-sized, and will not need to be upgraded.

#### HYDROLOGY/HYDRAULICS

The runoff calculations and design have been done in accordance with Section 22.2 of the Development Process Manual of the City of Albuquerque, January 1993.

AND

HYDRAULIC COMPUTATIONS

5639 JEFFERSON STREET NE · ALBUQUERQUE, NEW MEXICO 87109 · PHONE (505) 344·4080 · FAX (505) 343·8759

## RUNOFF CALCULATIONS - SIMPLIFIED PROCEDURE ·

By: JOE KELLEY	Date: 1/3/96 REV. 1/15/90
Project: St Josephis MOB	Zone Atlas: F-17
This procedure is in accordance with the <u>Cit</u> <u>Manual. Volume 2. Section 22.2. "Hydrology",</u> ess than forty acres in size.	· · · · · · · · · · · · · · · · · · ·
Precipitation Zone from Figure A-1:	

## 1. RUNOFF RATE COMPUTATION

Use Equation a-10:  $Q_P = Q_{PA} A_A + Q_{PB} A_B + Q_{PC} A_C + Q_{PD} A_D$ 

Values of Q<sub>pi</sub> are from Table A-9, and are in CFS/acre. Area values are in acres.

BASIN	Q <sub>PA</sub>	A	Q <sub>PB</sub>	A <sub>B</sub>	Q <sub>PC</sub>	Ac	Q <sub>PD</sub>	AD	Qp
EXISTING BASIN RATE OF RUNOFF (CFS)									
						•			
					,				
						•		•	
	•		-						
DEVELO	PED B/	ASIN RA	TE OF R	UNOFF	(CFS)				
A	1.56	0	2.28	0.45	3.14	0	4.70	1.34	7.3.2
В	11	Q ·	11	0.35	11	. ()	lı	1.19	6.39
		•			•				
					•			•	
		•	•			••			

## 2. RUNOFF VOLUME COMPUTATION

Use Equation a-5 to compute weighted excess precipitation:

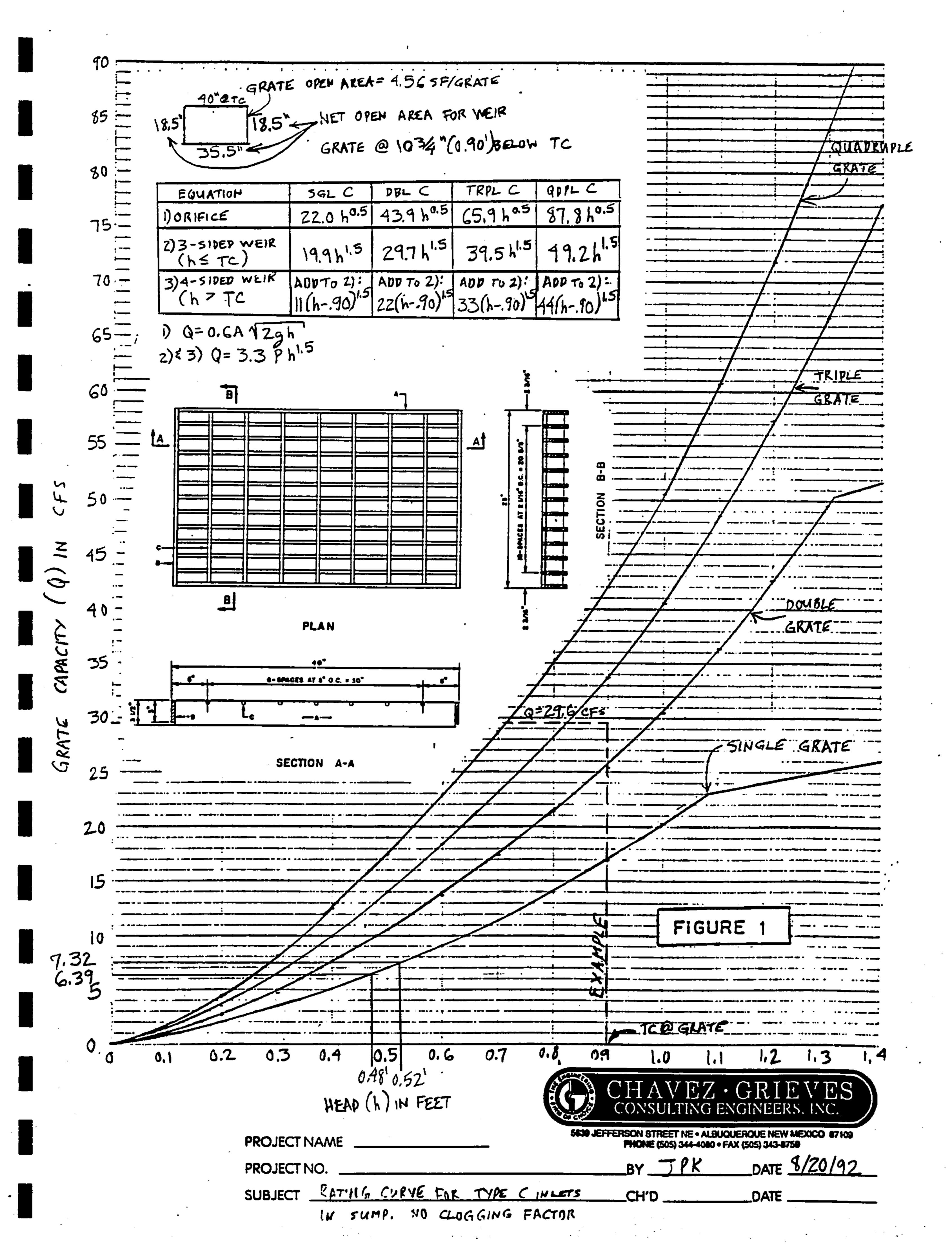
Weighted E = "E" = 
$$(E_A A_A + E_B A_B + E_C A_C + E_D A_D)/(A_A + A_B + A_C + A_D)$$
  
 $(A_A + A_B + A_C + A_D) = \sum A_i$ 

Use Equation a-6 to compute the volume:

$$V_{360}$$
 = "E" x ( $A_A + A_B + A_C + A_D$ ) x 3630 feet<sup>3</sup>/acre·inch

Values of E<sub>i</sub> are from Table A-8, and are in inches. Area values are in acres.

BASIN	E <sub>A</sub>	A	E <sub>B</sub>	A <sub>B</sub>	E <sub>c</sub>	A <sub>C</sub>	E <sub>D</sub>	$A_{D}$	$\sum A_i$	"E"	V <sub>360</sub>
EXISTING BASIN VOLUME OF RUNOFF (CUBIC FEET)											
DEVEL	OPED I	BASIN	VOLU	ME OF	RUNC	OFF (C	UBIC F	EET)			
SITE	0.53	0.21	0.78	4.08	1,13	0	2,12	7.06	11.35	1.61	66,287
						_					
						•					



Chavez-Grieves Consulting Engineers, Inc. Saint Joseph's NE Heights Medical Office Building

Hydraulic Grade Line Calculations By: Joe Kelley

1996 Joe Kelley January 15,

Colinal in 1000					•										
	Pipe	Œ	Pipe			Friction	Pipe	Pipe	Bend	Junction	Friction	Curve	Junction	Manhole	Transition
	Diameter	Flow	Area	Velocity	×	Slope	Length	Curve	Angle	Angle	Loss	Loss	Loss	Loss	250
Station Structure	(inches)	(cfs)	(s.f.)	(fps)	Factor	Sf	(feet)	(degrees)	(dearees)	(dearees)	Ħ	HC	ï	Hmh	
1+00 outlet															
	18	9.75	1.7671	5.52	105 0430	0.0086	265.00	000			2 2024				
65 MU											1007.7	0,000			
														0.0203	
	18	8.25	1.7671	4.67	105.0430	0.0062	211.00	0.00			1.3015	0000			
76 MH/junction									90.00				0.3055	0.0170	
	× 12	3.68	0.7854	4.69	35.6279	0.0107	160.00	0.00			1,7070	00000			
north) junction										***************************************				88000	
	12	0.72	0.7854	0.92	35,6279	0.0004	75.00	000			90200				
north)   MH (end)										*****************		2000			
	18	3.18	1 7671	1 80	105 0430	9000 O	125.00	000			<b>∦</b> •			0.00.10	
(east)   MH							20.031		772		0+11.0	0000		***	
									30.00					0.0025	
	18	3.18	1./6/1	1.80	105.0430	0.0009	105.00	0.00			0.0962	0000			
east) inlet (end)														0.0013	***************************************
	***														
															***************************************
		***************************************	***************************************	****											

0.013 Manning's N

	Comments	,														
Junction (3) Vel. Head	•					0.34										
(6)	(s.f.)					0.7854										
Junction (3) Diameter	(inches)					12										
Energy Grade Line	(upstream)	16.99		69.14		5 70.81		3 72.20		5 72.26		3 70.64		9 20 69		
Energy Grade Line	(downstream)			69.12		70.45		72.19		72.26		59.07		69'02		
Velocity Head	¥		0.47		9.34		0.34		0.01		0.05		0.05		00.00	
Ground	Elevation	68.67		5 74.05		74.70		09'5'		76.00		00.77		3 76.40		
Soffit	Elevation	0 66.50		5) 69.65		7 70.7		0 71.90		72.4		0 71.60		3 72.23		
e Pipe	Inve	50  65.0		80 68.1		47 69.7		18 70.9		21 71.4		59 70.1		7.07   69		
	(upstre	99	********** <b>+</b> ****	78 68.80		10 70.		17 72.		21 72.		70.		70.		
Hydraulic Grade Line	(dnstream)	l	31	<b>33</b> ] 68.7		13 70.	70	38 72.	) <b>9</b>	16 72.	<u>16</u>	26 70.58	32	13 70.69		
Total	(feet)	0.000	2.2831	0.021	1.3015	89 0.36	1.7070	00 0 0.00	90:0306	00.0	0.11	0.0	<b>60.0</b>	000[ 0.0013	00000	
Bend	롸					0.03		0.00		0.00		0.01		00.0		



## New Storm Drain Worksheet for Circular Channel

Project Description	n
Project File	untitled.fm2
Worksheet	Saint Joseph's MOB
Flow Element	Circular Channel
Method	Manning's Formula
Solve For	Discharge

Input Data		
Mannings Coefficient	0.013	
Channel Slope	0.00500	0 ft/ft
Depth	1.50	ft
Diameter	18.00	in

Results	<u> </u>	
Discharge	7.43	cfs
Flow Area	1.77	ft²
Wetted Perimeter	4.71	ft
Top Width	0.37e-7	ft
Critical Depth	1.06	ft
Percent Full	100.00	•
Critical Slope .	0.007032	2 ft/ft
Velocity	4.20	ft/s
Velocity Head	0.27	ft
Specific Energy	1.77	ft
Froude Number	0.11e-3	
Maximum Discharge	7.99	cfs
Full Flow Capacity	7.43	cfs
Full Flow Slope	0.005000	O ft/ft
Flow is subcritical.		

Chavez-Grieves Consulting Engineers, Inc.
Saint Joseph's NE Heights Medical Office Building
Hydraulic Grade Line Calculations - 100-Year Storm

By: Joe Kelley

January 15, 1996

		Pipe Diameter	Q Flow	Pipe Area	Velocity	K	Friction Slope	Pipe Length	Pipe Curve	Bend Angle	Junction Angle	Friction Loss	Curve Loss	Junction Loss	Manhole Loss	Transition Loss
Station -	Structure	(inches)	(cfs)	(s.f.)	(fps)	Factor	Sf	(feet)	(degrees)	(degrees)	(degrees)	Hf	Hc	Нj	Hmh	Ht
1+00	outlet						<b>\$</b> ************************************									· · · · · · · · · · · · · · · · · · ·
		18	22.47	1.7671	12.72	105.0430	0.0458	265.00	0,00			12.1260	0.0000			
3+65	MH														0.1077	
		18	19.02	1.7671	10.76	105.0430	0.0328	211.00	0,00			6.9178	0.0000			
5+76	MH/junction									90.00				1.2901	0.0859	
		12	8.06	0.7854	10.26	35.6279	0.0512	160.00	0.00			8.1886	0.0000			
7+36 (north)	junction														0.0426	
		12	1.67	0.7854	2.13	35.6279	0.0022	75.00	0.00			0.1648	0.0000			
8+11 (north)	MH (end)									<b></b>	<u> </u>				0.0084	
		18	7.32	1.7671	4.14	105.0430	0.0049	125.00	0.00			0.6070	0.0000			
7+01 (east)	MH									90.00			************************		0,0100	1
		18	7.32	1.7671		105.0430	0.0049		0.00				0.0000			
8+06 (east)	inlet (end)									***************************************				***************************************	0.0067	
		***************************************	A	%\&\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		\$2.5.5. <del>2.7.2.2.3.</del>		****	*************							<u>*************************************</u>
	<u></u>		***************************************	<u></u>						<u> </u>	<u>l.</u>					

Manning's N =

0.013

Bend	Total	Hydraulic	Hydraulic			Ground	Velocity	Energy	Energy	Junction (3)	Junction (3)	Junction (3)	
Loss	Losses	Grade Line	Grade Line	Pipe	Soffit	Surface	Head	Grade Line	Grade Line	Diameter '	Area	Vel. Head	
Hb_		(dnstream)			Elevation	Elevation	Hv	(downstream)	(upstream)	(inches)	(s.f.)	(feet)	Comments
	0.0000		66.50	65.00	66.50	68.67			69.01				HGL @ soffit (assumed)
	12,1260						2.51						(LISSEWEL)
***************************************	0.1077	78.63	78.73	68.15	69.65	74.05		80.42	80.53				Untrue HGL (too high)
	6.9178						1.80						
0.2065	1.5825	85.65	87.23	69.77	70.77	74.70		87.29	88.87	12	0.7854	1.64	Untrue HGL (too high)
	8.1886						1.64						
0.0000	0.0426	95.42	95.47	70.90	71.90	75.60		95.49	95.54				Untrue HGL (too high)
	0.1648						0.07						
0.0000	0.0084	95.63			72.42	76.00		95,90	95,90				Untrue HGL (too high)
	0.6070	87.84					0.27					<b>0000000000000000000000000000000000000</b>	
0.0533			87.91	70.10	71.60	77.00		88.11	88.17				Untrue HGL (too high)
	0 5099					<u> </u>	0.27						
0.00001	0 0067	88.42	88.42	70.73	72.23	76.40		88.42	88.42				Untrue HGL (too high)
	0.0000						0.00					<i></i> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
<b>!</b>	<u>l</u>		<u>L.</u>	<u></u> j									

The HGL's on this spread sheet are untrue because they are high above the ground surface, which implies that the water would rise to that point during the design storm. The water not in the pipe will actually be flowing on the surface at Manning's depths.



# City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 9, 1996

Joe Kelley Chavez-Grieves Engineering 5639 Jefferson NE Albuquerque, NM 87109

RE: DRAINAGE PLAN FOR ST. JOSEPH'S MEDICAL BUILDING & ADDITIONAL PARKING (F17-D10) REVISION DATED 2/19/96.

Dear Mr. Kelley:

Based on the information provided on your April 8, 1996 resubmittal, the above referenced site is approved for Building and Grading/Paving permit.

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

Also, 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

File



November 18, 1996

Martin J. Chávez, Mayor

Joe Kelley Chavez-Grieves 5639 Jefferson NE Albuquerque, NM 87109

RE: ENGINEER CERTIFICATION FOR AN ADDITION TO ST. JOSEPH'S NE HEIGHTS MEDICAL OFFICES (F17-D10) CERTIFICATION STATEMENT DATED 11/12/96.

Dear Mr. Kelley:

Based on the information provided on your November 13, 1996 submittal, Engineer Certification for the above referenced site is acceptable.

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

File)





December 21, 2004

Scott McGee, P.E. Isaacson & Arfman, P.A. 128 Monroe St. NE Albuquerque, NM 87108

Re: Women's Hospital of New Mexico Medical Office Building / Neonatal Intensive Care Unit, 4701 Montgomery Blvd NE, Site Development Plan

Engineer's Stamp dated 11-29-04 (F17-D10)

Dear Mr. McGee,

Based upon the information provided in your submittal received 11-29-04, the above referenced plan is approved for Site Development Plan for Building Permit action by the DRB. Please address the following comments before submitting for Building Permit:

P.O. Box 1293

Albuquerque

1. Provide existing and proposed drainage calculations for the site.

2. Verify the sufficiency of the pond volume.

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

New Mexico 87103

www.cabq.gov

Sincerely,

Kristal D. Metro

Engineering Associate, Planning Dept. Development and Building Services

C: file

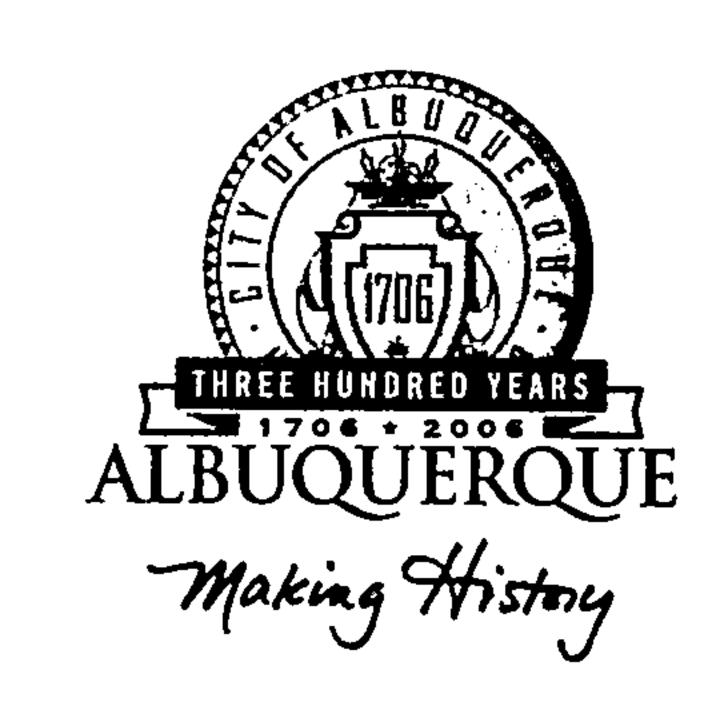
#### DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

LEGAL DESCRIPTION: A portion of Tract M-1, University Heights Hospital, City of Albuquerque CITY ADDRESS: 47.01 W management 8 1 12.5.  ENGINEERING FIRM: Issacson & Arfman P.A.  ADDRESS: 128 Montre St. NE CITY, STATE: Albuquerque, NM  CONTACT: Bryan Bobrick PHONE: 268-8828  CITY, STATE: Albuquerque, NM  CONTACT: 1  ADDRESS: PHONE: 21P CODE: ARCHITECT: Gregory T. Hicks and Assoc. ADDRESS: PHONE: 231-7992 CITY, STATE: Albuquerque, New Mexico  CONTACT: David Kines PHONE: 243-7992 CITY, STATE: Albuquerque, New Mexico  CITY, STATE: Albuquerque, New Mexico  CONTACT: David Kines PHONE: 21P CODE:  CONTACT: ADDRESS: PHONE: 21P CODE:  CONTACT: ADDRESS: PHONE: 21P CODE:  CONTACTOR: ADDRESS: PHONE: 21P CODE:  CONTACTOR: ADDRESS: PHONE: 21P CODE:  CONTACT: ADDRESS: PHONE: 21P CODE:  CONTACTOR: ADDRESS: PHONE: 21P CODE:  CONTACT: ADDRESS: PHONE: 21P CODE:  CONTACTOR: ADDRESS: PHONE: 21P CODE:  CONTACT: ADDRESS: PHONE: 21P CODE: ADDRESS: PHONE: 21	PROJECT TITLE: Women's Hospital of NM – MOB NICU	ZONE MAP / DRG. FILE #: <u>F-17 / D / D</u>
CONTACT: Bryan Bobrick ADDRESS: 128 Montoe St. NE CITY, STATE: Albuquerque, NM  OWNER: ADDRESS: 128 Montoe St. NE CITY, STATE: Albuquerque, NM  OWNER: ADDRESS: PHONE: CITY, STATE: Albuquerque, New Mexico  CONTACT: David Kines PHONE: 243-7492  CITY, STATE: Albuquerque, New Mexico  CITY, STATE: Albuquerque, New Mexico  SURVEYOR: ADDRESS: 112 Second St. SW PHONE: 243-7492  CITY, STATE: Albuquerque, New Mexico  CONTACT: David Kines PHONE: 243-7492  CITY, STATE: Albuquerque, New Mexico  CONTACT: David Kines PHONE: 243-7492  CITY, STATE: Albuquerque, New Mexico  CONTACT: David Kines PHONE: 243-7492  CITY, STATE: Albuquerque, New Mexico  CONTACT: David Kines PHONE: 243-7492  CITY, STATE: Albuquerque, New Mexico  CONTACT: David Kines PHONE: 243-7492  CITY, STATE: Albuquerque, New Mexico  CONTACT: David Kines PHONE: 243-7492  CITY, STATE: Albuquerque, New Mexico  CONTACT: David Kines PHONE: 243-7492  C	DRB #:EPC #:	WORK ORDER #:
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BP Lu paid HYDROLOGY SECTION		2 9 2004
DATE SUBMITTED: Monday, November 29, 2004  BY: Isaacson & Arfman. P.A.	BP Le Paid HYDROL	OGY SECTION
	DATE SUBMITTED: Monday, November 29, 2004	BY: Isaacson & Arfman, P.A.

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



April 7, 2005

Scott McGee, P.E. Isaacson & Arfman, P.A. 128 Monroe St. NE Albuquerque, NM 87108

Re:

Women's Hospital of New Mexico Parking Lot Revisions, 4701 Montgomery Blvd NE, Grading and Drainage Plan

Engineer's Stamp dated 3-31-05 (F17-D10)

Dear Mr. McGee,

P.O. Box 1293

Based upon the information provided in your submittal received 3-31-05, the above referenced plan is approved for Grading and Paving Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

Albuquerque

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

New Mexico 87103

www.cabq.gov

Kristal D. Metro

Sincerely,

Engineering Associate, Planning Dept. Development and Building Services

C: File

(REV. 1/28/2003rd)

PROJECT TITLE: Women's Hospital	of NM - Parking Lot Revisions	ZONE MAP / DRG. FILE #: F-17 / D10	
RB #:EPC #:			
LEGAL DESCRIPTION: A portion of CITY ADDRESS:	Tract M-1, University Heights Hospita	l, City of Albuquerque	
ENGINEERING FIRM: Isaacson & A	rfman, P.A.	CONTACT: Bryan Bobrick	
ADDRESS: 128 Monroe St.	NE	PHONE: 268-8828	
CITY, STATE: Albuquerque	z, NM	ZIP CODE: 87108	
OWNER:		CONTACT:	
ADDRESS:		PHONE:	
CITY, STATE:		ZIP CODE:	
ARCHITECT: Gregory T. Hicks and A	Assoc.	CONTACT:_Jim MacGillivray	
ADDRESS: 112 Second St.		PHONE: 243-7492	
CITY, STATE: Albuquerque	e, New Mexico	ZIP CODE: 87102	
SURVEYOR:		CONTACT:	
ADDRESS:		PHONE:	
CITY, STATE:		ZIP CODE:	
CONTRACTOR:		CONTACT:	
ADDRESS:		PHONE:	
CITY, STATE:	·	ZIP CODE:	
	$A_{\Delta}$		
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EROSION CONTROL PLAN	• /• • • • • • • • • • • • • • • • • •	FINAL PLAT APPROVAL	
ENGINEER'S CERTIFICATION	1 (HYDROLOGY)	FOUNDATION PERMIT APPROVAL	
CLOMR / LOMR		BUILDING PERMIT APPROVAL	
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OTHER	(DRB APPR, SHE PLAN)	GRADING PERMIT APPROVAL	
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COPY PROVIDED			
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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:

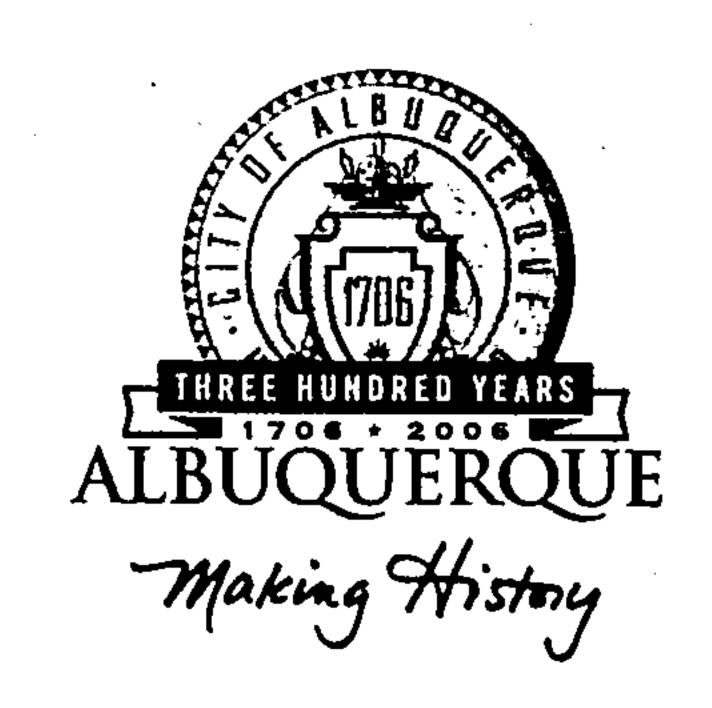
BY:

Isaacson & Arfman, P.A.

- 1. Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five acres and Sector Plans
- 2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five acres

DATE SUBMITTED: Thursday, March 31, 2005

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



August 10, 2005

Mr. Scott McGee, P.E.

ISAACSON & ARFMAN, PA

128 Monroe St. NE

Albuquerque, NM 87108

Re: WOMEN'S HOSPITAL OF NM - PARKING LOT REVISIONS, 4701

Montgomery Blvd. NE, Grading and Drainage Plan, Engineer's Stamp

dated 03/31/2005 (F-17/D10)

Dear Scott,

Thank you for providing an Engineer Certification for Paving/Grading Permits of the above referenced plan. It will be placed in the project file

P.O. Box 1293

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

Albuquerque

Arlene V. Portillo

Sincerely,

New Mexico 87103

Plan Checker, Planning Dept.-Hydrology

Development and Building Services

www.cabq.gov

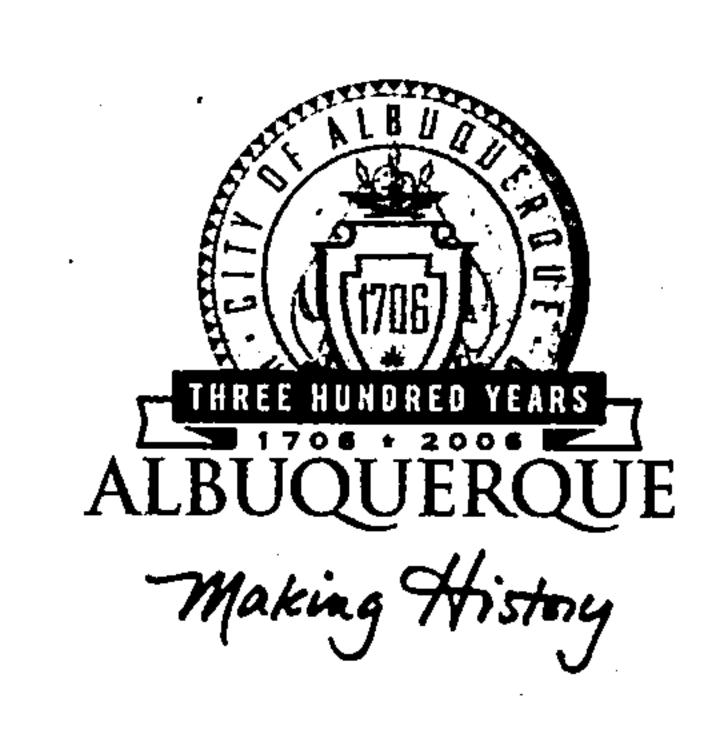
C: file

(REV. 1/28/2003rd)

PROJECT TITLE: Women's Hospital of NM - Phase I - Parking L	ZONE MAP / DRG. FILE #: F-17 / D10
DRB #:EPC #:	WORK ORDER #:
LEGAL DESCRIPTION: A portion of Tract M-1, University Heights H. CITY ADDRESS: 4701 Myntzomery Blud NE	ospital, City of Albuquerque
ENGINEERING FIRM: Isaacson & Arfman, P.A.	CONTACT: Bryan Bobrick
ADDRESS: 128 Monroe St. NE	PHONE: 268-8828
CITY, STATE: Albuquerque, NM	ZIP CODE: 87108
OWNER:	CONTACT:
ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
ARCHITECT: Gregory T. Hicks and Assoc.	CONTACT: David Kines
ADDRESS: 112 Second St. SW	PHONE: 243-7492
CITY, STATE: Albuquerque, New Mexico	ZIP CODE: <u>87102</u>
SURVEYOR:	CONTACT:
ADDRESS:	PHONE:
CITY, STATE: Albuquerque, New Mexico	ZIP CODE:
CONTRACTOR:	CONTACT:
ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
CHECK TYPE OF SUBMITTAL:  DRAINAGE REPORT  DRAINAGE PLAN IST REQUIRES TCL or equal  DRAINAGE PLAN RESUBMITTAL  CONCEPTUAL GRADING & DRAINAGE PLAN  GRADING PLAN  EROSION CONTROL PLAN  X ENGINEER'S CERTIFICATION (HYDROLOGY)  CLOMR / LOMR  TRAFFIC CIRCULATION LAYOUT (TCL)  ENGINEER'S CERTIFICATION (TCL)  ENGINEER'S CERTIFICATION (DRB APPR, SITE PLAN)  OTHER	CHECK TYPE OF APPROVAL SOUGHT:  SIA / FINANCIAL GUARANTEE RELEASE  PRELIMINARY PLAT APPROVAL  S. DEV. PLAN FOR SUB'D APPROVAL  S. DEV. PLAN FOR BLDG. PERMIT APPR.  SECTOR PLAN APPROVAL  FINAL PLAT APPROVAL  FOUNDATION PERMIT APPROVAL  BUILDING PERMIT APPROVAL  X CERTIFICATE OF OCCUPANCY (PERM)  CERTIFICATE OF OCCUPANCY (TEMP)  GRADING PERMIT APPROVAL  PAVING PERMIT APPROVAL  WORK ORDER APPROVAL
WAS A PRE-DESIGN CONFERENCE ATTENDED:YESNOCOPY PROVIDED  DATE SUBMITTED: Tuesday, August 09, 2005	THER D 国 区 国 D AUG 1 0 2005  HYDROLOGY SECTION
DATE SUBMITTED. TUESUAY, AUGUST UY, 2005	BY:BY: Isaacson & Arfman, P.A.

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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August 10, 2005

Mr. Scott McGee, P.E.

ISAACSON & ARFMAN, PA

128 Monroe St, NE

Albuquerque, NM 87108

Re:

WOMEN'S HOSPITAL OF NEW MEXICO EMERGENCY ROOM ADDITION (Parking Lot Remodel, Phase 1)

4201 Montgomery Blvd. NE

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

Engineer's Stamp dated 01/18/2005 (F-17/D10)

Certification dated 08/09/2005

P.O. Box 1293

Dear Scott:

Albuquerque

Based upon the information provided in your submittal received 08/10/2005, the above referenced certification is approved for release of Permanent Certificate of Occupancy by Hydrology.

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

New Mexico 87103

www.cabq.gov

Sincerely,

Arlene V. Portillo

Plan Checker, Planning Dept. - Hydrology

Development and Building Services

C: Phyllis Villanueva

File

(REV. 1/28/2003rd)

PROJECT TITLE: Women's Hospital of	FNM - MODNICH	ZONIE RAAD / DDO DII D // D 10 / D10
DDD #.	EDC #	ZONE MAP / DRG. FILE #: <u>F-17 / D10</u>
DRB #:	EPC #:	WORK ORDER #:
LEGAL DESCRIPTION: A portion of T CITY ADDRESS: 4701 - 47/101	ract M-1. University Heights F	Iospital, City of Albuquerque
ENGINEERING FIRM: Isaacson & Arfi	man. P.A	CONTACT: Bryan Bobrick
ADDRESS: 128 Monroe St. N		
CITY, STATE: Albuquerque,		PHONE: 268-8828
Citi, Sixib. Aibaqueique.	INIVI	ZIP CODE: <u>87108</u>
OWNER:		CONTACT:
ADDRESS:		PHONE:
CITY, STATE:		ZIP CODE:
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ARCHITECT: Gregory T. Hicks and As	soc.	CONTACT: David Kines
ADDRESS: 112 Second St. S	· · · · · · · · · · · · · · · · · · ·	PHONE: 243-7492
CITY, STATE: Albuquerque,	· · · · · · · · · · · · · · · · · · ·	ZIP CODE: 87102
SURVEYOR:		CONTACT:
ADDRESS:	· · · · · · · · · · · · · · · · · · ·	PHONE:
CITY, STATE: Albuquerque.	New Mexico	ZIP CODE:
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CONTRACTOR:		CONTACT:
ADDRESS:		PHONE:
CITY, STATE:		ZIP CODE:
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OTHER  WAS A PRE-DESIGN CONFERENCE AYESNOCOPY PROVIDED  DATE SUBMITTED: Tuesday August 6		WORK ORDER APPROVAL OTHER  AUG 1 0 2005 HYDROLOGY SECTION
DATE SUBMITTED: Tuesday, August	09, 2005	BY: <u>Isaacson &amp; Arfman, P.A.</u>

- 1. Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five acres and Sector Plans
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- 3. Drainage Report: Required for subdivisions containing more than ten (10) lots or constituting five acres or more.

75.11



January 26, 2005

Scott McGee, P.E. Isaacson & Arfman, P.A. 128 Monroe St. NE Albuquerque, NM 87108

Re: Women's Hospital of New Mexico Emergency Room Addition, 4701

1.18.03

Montgomery Blvd NE, Grading and Drainage Plan

Engineer's Stamp dated 1-15-05 (F17-D10)

ERROR

Dear Mr. McGee,

Based upon the information provided in your submittal received (1-18-05) the above referenced plan is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

Albuquerque

P.O. Box 1293

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

New Mexico 87103

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

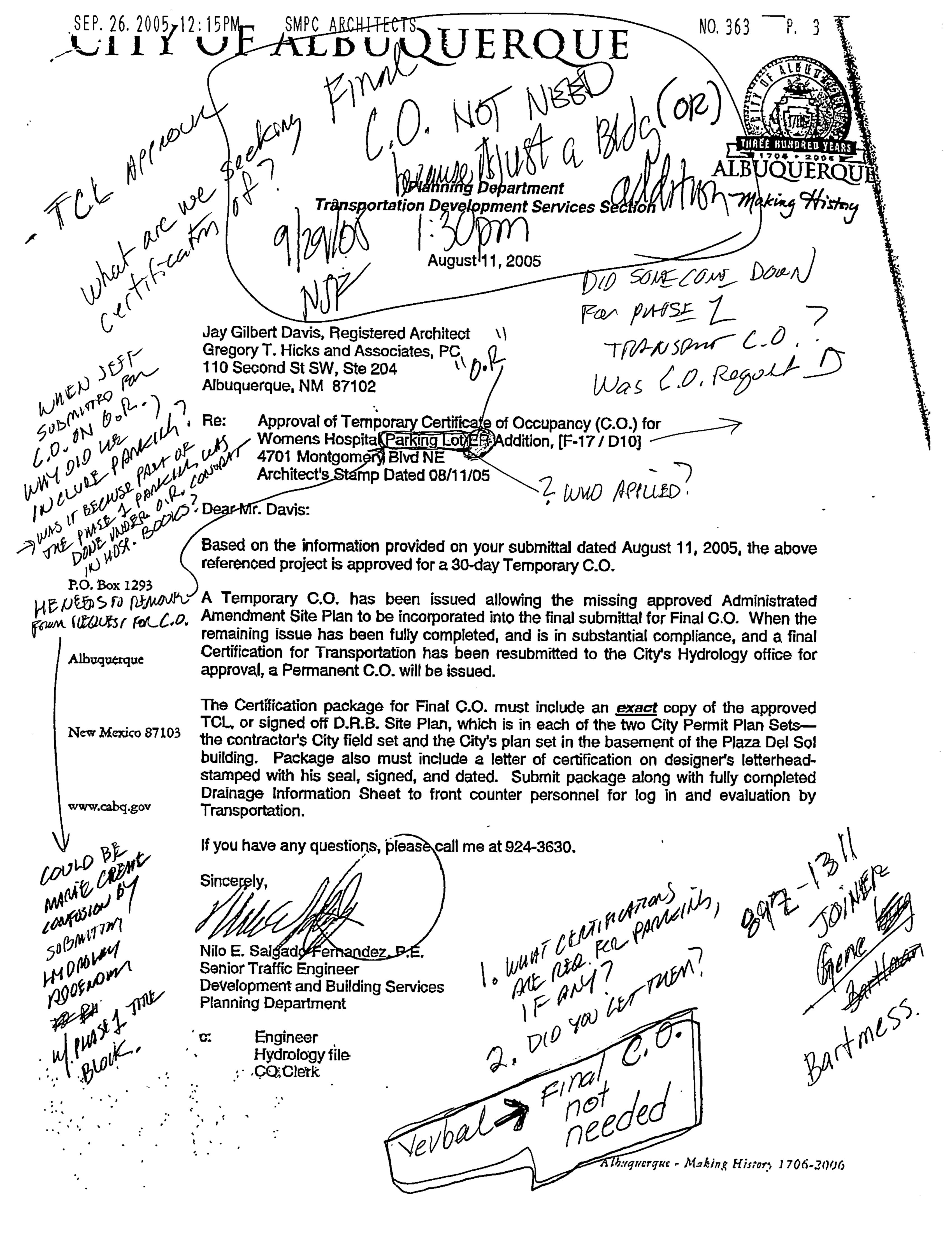
www.cabq.gov

Kristal D. Metro

Sincerely,

Engineering Associate, Planning Dept. Development and Building Services

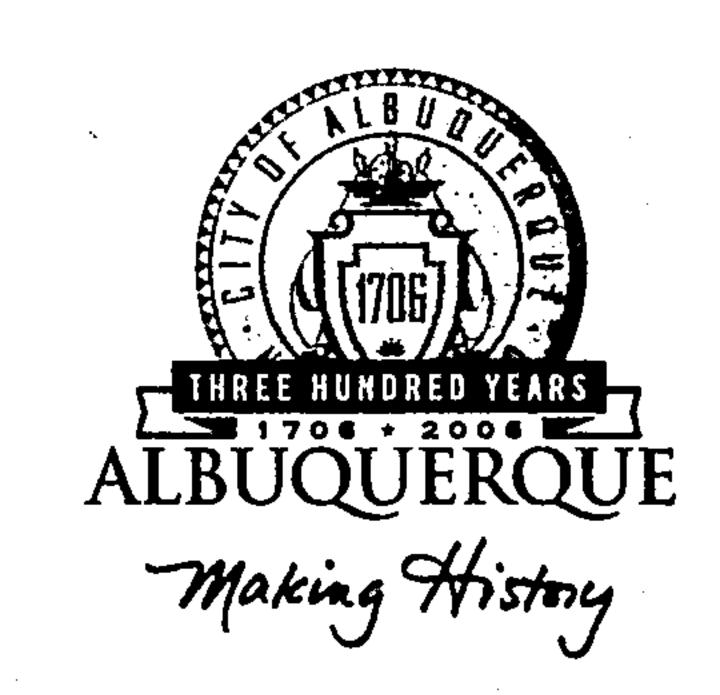
C: Charles Caruso, DMD Storm Drainage Design File



F-17/DIO OR addition Just a Blog

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### Planning Department Transportation Development Services Section

August 11, 2005

Jay Gilbert Davis, Registered Architect Gregory T. Hicks and Associates, PC 110 Second St SW, Ste 204 Albuquerque, NM 87102

Re:

Approval of Temporary Certificate of Occupancy (C.O.) for Womens Hospital Parking Lot ER Addition, [F-17 / D10]

4701 Montgomery Blvd NE

Architect's Stamp Dated 08/11/05

Dear Mr. Davis:

Based on the information provided on your submittal dated August 11, 2005, the above referenced project is approved for a 30-day Temporary C.O.

P.O. Box 1293

A Temporary C.O. has been issued allowing the missing approved Administrated Amendment Site Plan to be incorporated into the final submittal for Final C.O. When the remaining issue has been fully completed, and is 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.

Albuquerque

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.

www.cabq.gov

New Mexico 87103

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

Sincerely,

Nilo E. Salgado Fernandez, P.E.

Senior Traffic Engineer

Development and Building Services

Planning Department

C:

Engineer
Hydrology file
CO Clerk

Parking Lot ER Addition

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

PROJECT TITLE, 137 Early AND COME OF WELL MEXICO	
PROJECT TITLE: 12 FAME OF WEW MEXICA  DRB#:EPC#:	
DRB#: EPC#:	ONE MAP/DRG. FILE #/
	ORK ORDER#:
LEGAL DESCRIPTION: LOT M-1, UNIVERSITY HEIGH CITY ADDRESS: 4701 MONTGOMERY BUYO.	
CITY ADDRESS: 4771 MARIET CONTROLL STATE	SUSDIVISION
- TOTALISTED ESCHOL	VE
ENGINEERING FIRM: ISAACSON & ARFMAN, P.A. ADDRESS: 128 MONROE ST. NE	
ADDRESS: 128 MONROW CT ALE	CONTACT: BRYAN BOBEICK PHONE: Z68-8828
CITY, STATE: ALBUQUERQUE, NM	PHONE:
	ZIP CODE: 87.08
OWNER: LOVELACE SANDIA HEACTH	CONTRACT. I / A / / A / A A A A A A
ADDRESS: 16/01 MONITGOMEROM IZINA NIK	CONTACT: HANK HUMME PHONE: 777-776
CITY, STATE: ALBUQUERQUE) NM	PHONE: 777-7776 ZIP CODE: 87706
A TO CIT YYDDYD COM	
ARCHITECT: GREGORY 7. WICKS & ASSOC. P.C.	CONTACT: MY DAVIS
ADDRESS: LIO ZYLY ST. SUITE TOU	PHONE: 243-7492
CITY, STATE: ALBUQUERQUIS, NM	ZIP CODE: 87(07
SURVEYOR: SURVEYS SOUTHWEST LTO.	
ADDRESS: 434 / MASS CTO.	CONTACT: DAN GRANEY
ADDRESS: 333 COMAS BWO, NE. CITY, STATE: ALBUQUEROUS, NM	PHONE: 998-0303
	ZIP CODE: 8210 Z
CONTRACTOR: THE HAWICING GROUP	
ADDRESS: 115 AMHERST DR CE	CONTACT: JEFF HAWKINS
CITY, STATE: ACOUNTARIE, NM.	PHONE: 232 - 630
	ZIP CODE:87/04
TYPE OF SUBMITTAL: CHECK TYPE	E OF APPROVAL SOUGHT:
DRAINAGE REPORT	FINANCIAL GUARANTEE RELEASE
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GRADING PLAN	CTOR PLAN APPROVAL
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	RK ORDER APPROVAL
WAS A PRE-DESIGN CONFERENCE ATTENDED:	AUG 1 1 2005     リリ
YES	
NO	
COPY PROVIDED	HYDROLOGY SECTION
	6/./
SUBMITTED BY:	DATE:
Requests for approvals of Site Davalorment Diana and in the Color of the Site Davalorment Diana and its color	
Requests for approvals of Site Development Plans and/or Subdivision Plats st	iall be accompanied by a drainage submittal. The

- 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

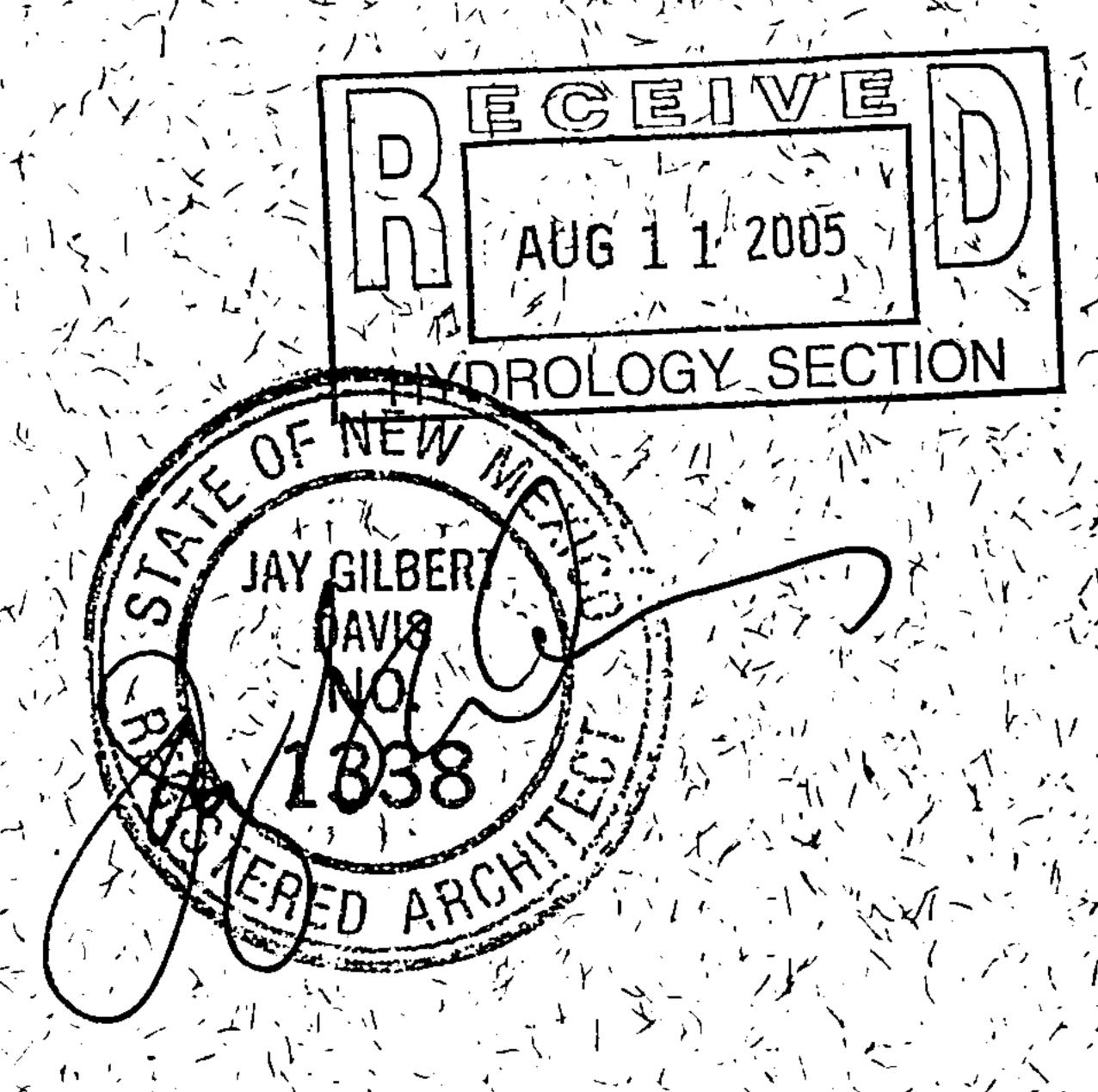
GREGORY T. HICKS EASSIC. P.C. HEREBY CERTIFY THAT THIS PROJECT HAS IS IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE, WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 12/0/04 THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY AYG. DAVIS OF THE FIRM GREGORY T. HICKS & ASSOCIATION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR CONDITIONS OF OCCUPANCY.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY, COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE TRAFFIC ASPECTS OF THIS PROJECT. THOSE RELYING ON THE RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

Signature of Engineer or Architect

Date

ENGINEER'S OR ARCHITECT'S STAMP



GREGORY T. HICKS AND ASSOCIATES, P.C.

• ARCHITECTS, PLANNERS

(505) 243-7492 fax (505) 243-1106 gthicks@gthicks.com





April 7, 2005

Scott McGee, P.E. Isaacson & Arfman, P.A. 128 Monroe St. NE Albuquerque, NM 87108

Re: Women's Hospital of New Mexico Medical Office Building and Neo-Natal I.C.U., 4701 Montgomery Blvd NE, Grading and Drainage Plan

Engineer's Stamp dated 3-03-05 (F17-D10)

Dear Mr. McGee,

Based upon the information provided in your submittal received 2-22-05, the above referenced plan is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

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

New Mexico 87103

P.O. Box 1293

Albuquerque

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

www.cabq.gov

Kristal D. Metro

Sincerely,

Engineering Associate, Planning Der Development and Building Services

C: Charles Caruso, DMD Storm Drainage Design File

(REV. 1/28/2003rd)

PROJECT TITLE: Women's Hospital of NM - MOB NICU	ZONE MAP / DRG. FILE #: F-17 / D10
DRB #:EPC #:	WORK ORDER #:
I FGAI DESCRIPTION: A nortion of Tract M., 1 University Beights Box	enital City of Albuquerana
LEGAL DESCRIPTION: A portion of Tract M-1, University Heights Hos	Spital, City of Albuquerque
ENGINEERING FIRM: Isaacson & Arfman, P.A.	
ADDRESS: 128 Monroe St. NE	CONTACT: Bryan Bobrick
	PHONE: 268-8828
CITY, STATE: <u>Albuquerque, NM</u>	ZIP CODE: <u>87108</u>
OWNER:	CONTACT:
ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
ARCHITECT: Gregory T. Hicks and Assoc.	CONTACT: David Kines
ADDRESS: 112 Second St. SW	PHONE: 243-7492
CITY, STATE: Albuquerque, New Mexico	ZIP CODE: <u>87102</u>
SURVEYOR:	CONTACT:
ADDRESS:	PHONE:
CITY, STATE: <u>Albuquerque, New Mexico</u>	ZIP CODE:
CONTRACTOR:	CONTACT:
ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
CHECK TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
XDRAINAGE REPORT	SIA / FINANCIAL GUARANTEE RELEASE
X DRAINAGE PLAN 1 <sup>ST</sup> REQUIRES TCL or equal	PRELIMINARY PLAT APPROVAL
DRAINAGE PLAN RESUBMITTAL	S. DEV. PLAN FOR SUB'D APPROVAL
CONCEPTUAL GRADING & DRAINAGE PLAN	S. DEV. PLAN FOR BLDG. PERMIT APPR.
X GRADING PLAN	SECTOR PLAN APPROVAL
ENCINEER'S CERTIFICATION (UNDROLOGY)	FINAL PLAT APPROVAL
ENGINEER'S CERTIFICATION (HYDROLOGY) CLOMR / LOMR	XFOUNDATION PERMIT APPROVAL
CLOWK / LOWKTRAFFIC CIRCULATION LAYOUT (TCL)	XBUILDING PERMIT APPROVAL
ENGINEER'S CERTIFICATION (TCL)	CERTIFICATE OF OCCUPANCY (PERM) CERTIFICATE OF OCCUPANCY (TEMP)
ENGINEER'S CERTIFICATION (DRB APPR, SITE PLAN)	GRADING PERMIT APPROVAL
OTHER	X PAVING PERMIT APPROVAL
	WORK ORDER APPROVAL
	OTHER
WAS A PRE-DESIGN CONFERENCE ATTENDED:	Male 22 10 1
YES	MYSIED ISELVI
NO	11/11/169/
COPY PROVIDED	MA GROLL
	HYVIII I I I I I I I I I I I I I I I I I
DATE SUBMITTED: Tuesday, February 22, 2005	BY: Isaacson & Arfman, P.A.

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

MARCH 3, 2005

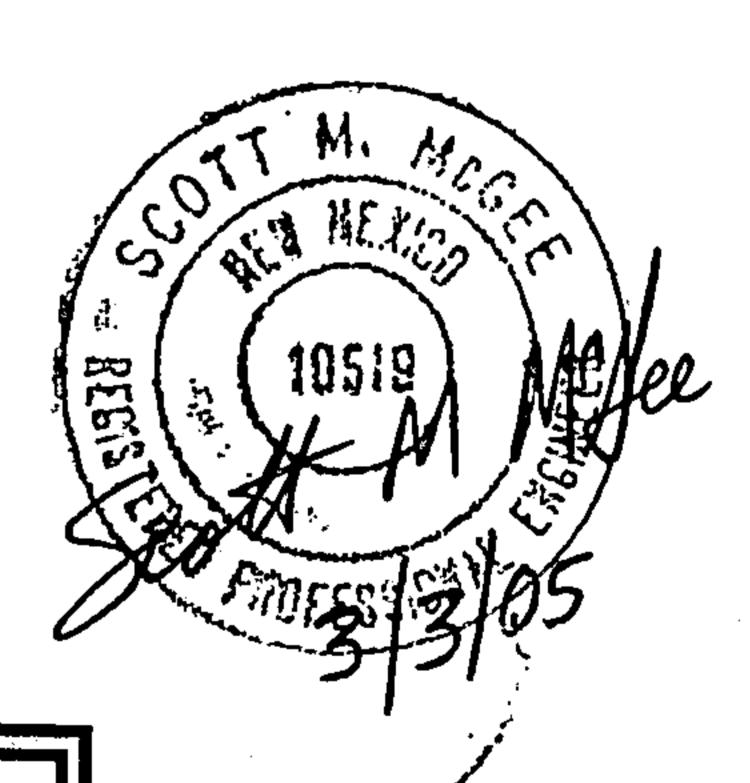
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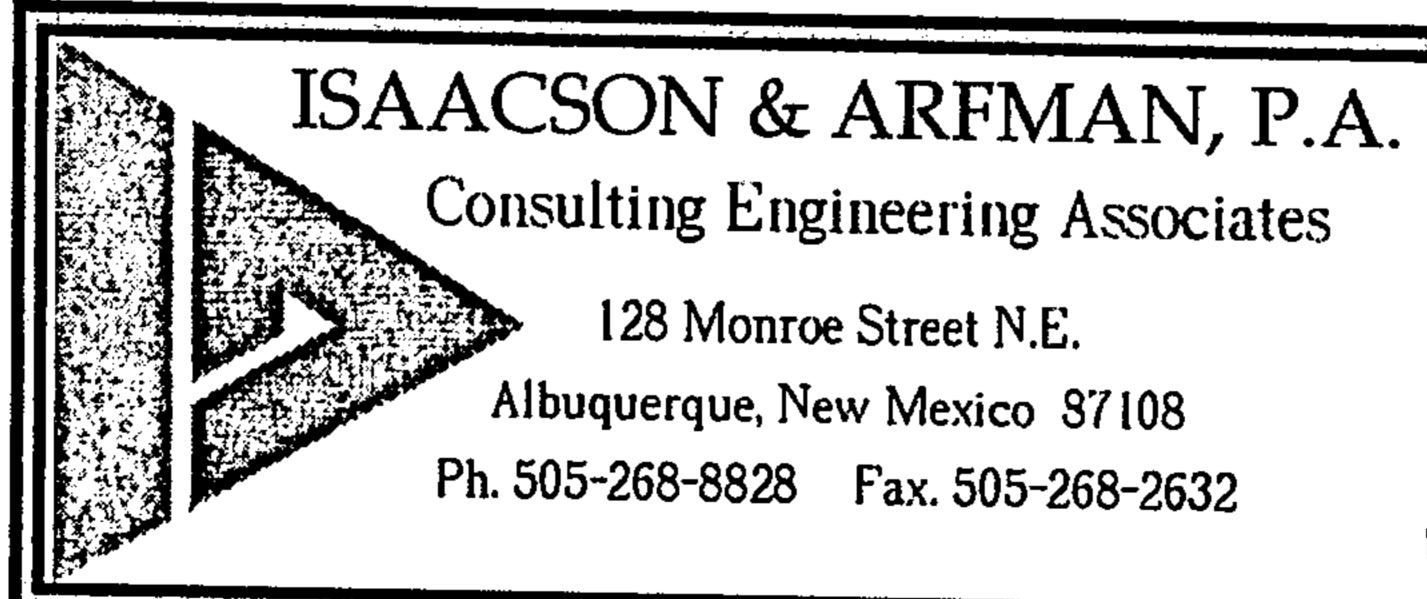
### SUPPLEMENTAL INFORMATION

**FOR** 

# WOMEN'S HOSPITAL OF NEW MEXICO MEDICAL OFFICE BLDG. and NEO-NATAL I.C.U.

BY





BC属 IV/ 国 MAR U3 2005

HYDROLOGY SECTION

### Drainage Summary:

Per the approved project <u>Women's Hospital of New Mexico</u>, <u>Parking Lot Remodel</u>

<u>Phase I</u> – Engineer Stamp dated 01-18005 which is currently under construction, the existing on-site detention pond located along the west property line is to be re-established to a depth per the original design (dated November 1981). In addition, the pond size will be increased to handle the increase in volume due to future phases of development.

The increase in pond size is 11,000 cf. The 100-year, 6-hour increase for the Phase I Parking Lot Remodel was 2,200 cf. Subtracting this from the total increase leaves 8,800 cf of unused volume in the enlarged pond.

Per the attached calculations, the site improvements proposed with this submittal are divided into two basins.

Basin 1 covers the Office Building and parking expansion on the south side of the site:

100-year, 6-hour Storr	n Erront	ne south side of the site:
	Wroposed _	, <u> </u>
Qatist 9.9 cfs	14988 cf	
Q= 11.4 cfs	18047 cf	
$\Delta$ 1.5 cfs	3059 cf	
ا اسم	. / 1	

Hasin 2 covers the parking expansion on the north side of the site:

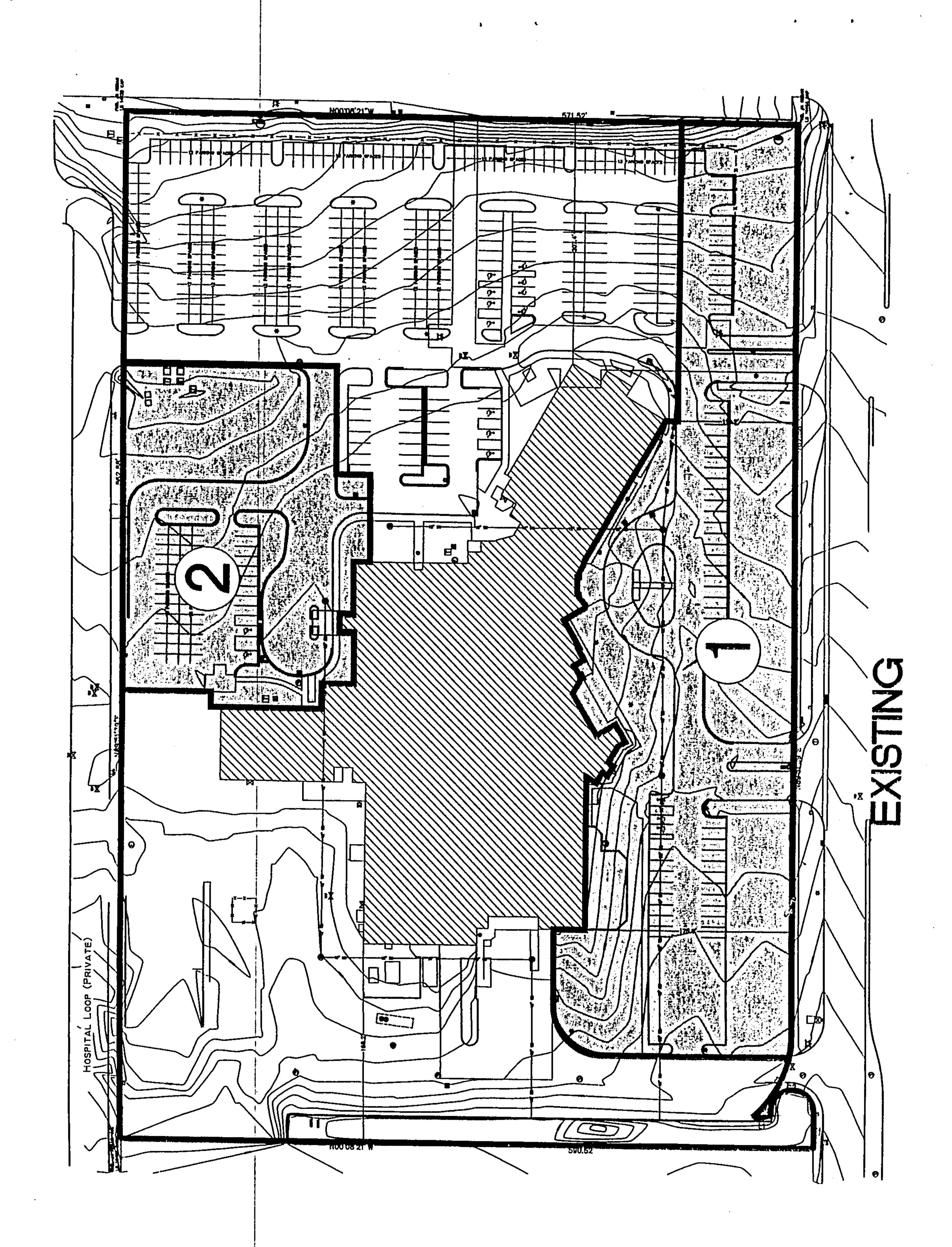
100-year, 6-hou	r Storm Event	The state of the office.
Haisting	10pased	
Q = 4.8 cfs	7322 cf	
Q= 5.4 cfs	8728 cf	
$\Delta$ 0.6 cfs	1406 cf	

The total additional discharge to the pond from this proposed development = 4465 cf. < 8,800 cf available. OK

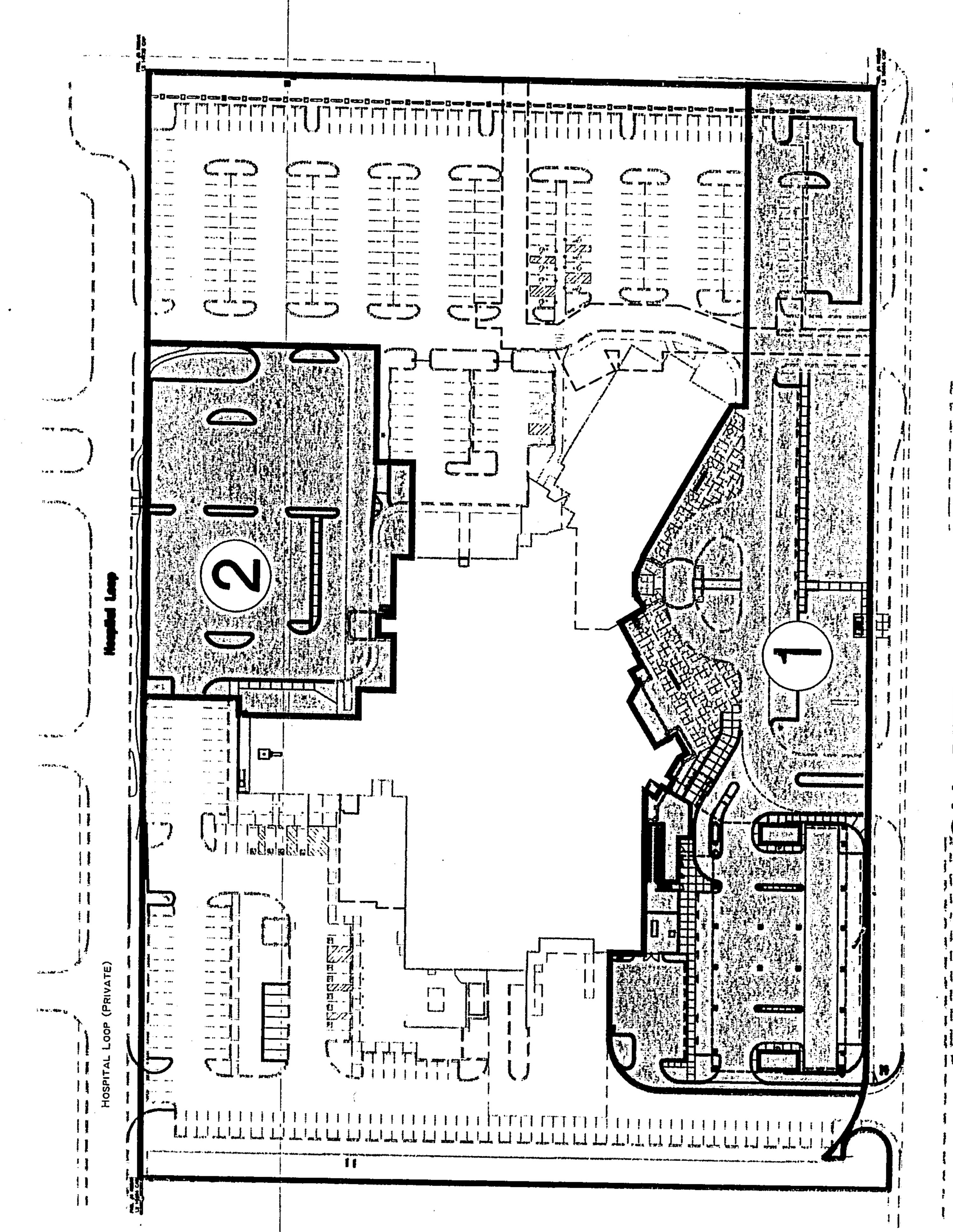
Total Regno = 26,775 ft3

#### 1410 NICU Calculations.xls

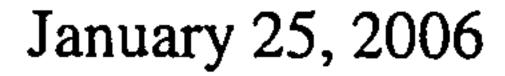
BASIN NO.		EXISTING		
Area of basin flows =	118255 S	F =	2 7 A -	
The following calculation	ons are based on Treati	nent areas as shown in table to the	2.7 Ac. Priobt	<b>.</b>
•	Sub-basin Weighted 1	Excess Precipitation (see formula	ahove)	
•	Weighted E =	1.52 in.	TREATI	AENT
	Sub-basin Volume of	Runoss (see formula above)	A =	0%
	V360 =	14988 CF	$\mathbf{B} =$	37%
-	Sub-basin Peak Discl	arge Rate: (see formula above)	C =	10%
	——————————————————————————————————————	9.9 - cfs	D =	53% ·
BASIN NO.		PROPOSED		-7.7 / 17
Area of basin flows =	118255 S	F =	2.7 Ac.	
The following calculation	ons are based on Treati	nent areas as shown in table to the	right	
	Sub-basin Weighted I	Excess Precipitation (see formula a	ibove)	
	Weighted E =	1.83 in.	TREATI	MENT
•	Sub-basin Volume of	Runost (see formula above)	A =	0%
	V360 =	18047 CF	B =	20%
	Sub-basin Peak Disch	arge Rate: (see formula above)	C =	. 2%
DACINI NICO	Qp=	11.4 cfs	D =	78%
BASIN NO. 2		EXISTING		,
Area of basin flows =	54128 S		1.2 Ac.	
The following calculation	ms are based on Treatn	nent areas as shown in table to the	right	
	Sub-basin Weighted E	Excess Precipitation (see formula a	bove)	
	Weighted E =	1.62 in.	TREATN	<b>MENT</b>
	•	Runoss (see formula above)	A =	0%
	V360 =	7322 CF	·	
		, 522 C1	$\mathbf{B} =$	30%
		arge Rate: (see formula above)	C = B =	30% 10%
	Sub-basin Peak Disch  Qp =	arge Rate: (see formula above)  4.8 cfs:		30% 10% 60%
BASIN NO. 2	Qp _ =	arge Rate: (see formula above)	C =	10%
BASIN NO. 2 Area of basin flows =	Qp _ = 54128 SI	arge Rate: (see formula above)  4.8 cfs:  PROPOSED  =	C = D =	10%
BASIN NO. 2  Area of basin flows =  The following calculation	Qp = 54128 SI ons are based on Treatn	arge Rate: (see formula above)  4.8 cfs:  PROPOSED  = lent areas as shown in table to the	C = D = 1.2 Ac.	10%
BASIN NO. 2  Area of basin flows =  The following calculation	Qp = 54128 SI ons are based on Treatm Sub-basin Weighted E	arge Rate: (see formula above)  4.8 cfs:  PROPOSED  =	C = D = 1.2 Ac.	10%
BASIN NO. 2 Area of basin flows = The following calculation	Sub-basin Weighted E  Weighted E	arge Rate: (see formula above)  4.8 cfs:  PROPOSED  = nent areas as shown in table to the excess Precipitation (see formula a 1.93 in.	C = D =  1.2 Ac.  right bove)	10%
BASIN NO. 2 Area of basin flows = The following calculation	Sub-basin Volume of	arge Rate: (see formula above)  4.8 cfs  PROPOSED  = nent areas as shown in table to the excess Precipitation (see formula a	C = D = 1.2 Ac.	10%
BASIN NO. 2 Area of basin flows = The following calculation	Sub-basin Volume of V360 =	arge Rate: (see formula above)  4.8 cfs:  PROPOSED  = nent areas as shown in table to the excess Precipitation (see formula a 1.93 in.  Runoff (see formula above)  8728 CF	C = D =  1.2 Ac.  right bove)	10% 60% 4ENT
BASIN NO. 2 Area of basin flows = The following calculation	Sub-basin Volume of V360 =	arge Rate: (see formula above)  4.8 cfs:  PROPOSED  ent areas as shown in table to the excess Precipitation (see formula a 1.93 in.  Runoff (see formula above)	C = D =  1.2 Ac.  right bove)  TREATN A =	10% 60% 4ENT 0%
BASIN NO. 2 Area of basin flows = The following calculation	Sub-basin Volume of V360 =	arge Rate: (see formula above)  4.8 cfs:  PROPOSED  = nent areas as shown in table to the excess Precipitation (see formula a 1.93 in.  Runoff (see formula above)  8728 CF	C = D =  1.2 Ac.  right bove)  TREATM A = B =	10% 60% 4ENT 0% 11%



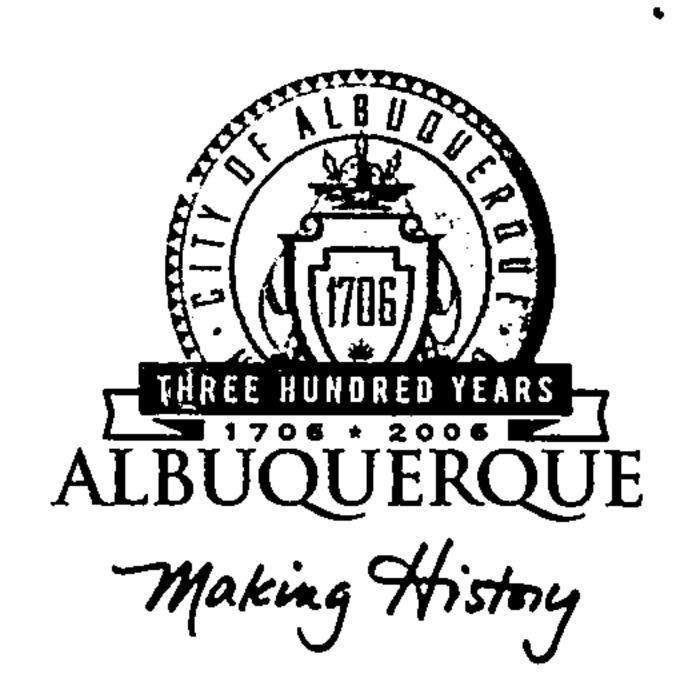
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ON-SITE BASIN NAP. PROPER



Scott M. McGee, PE Isaacson & Arfman, PA 128 Monroe St. NE. Albuquerque, NM 87108



Re: Womens Hospital of New Mexico West Wing, 4701 Montgomery Blvd NE

Grading and Drainage Plan

Engineer's Stamp dated 1-16-06 (F17/D10)

Dear Mr. McGee,

Charles Caruso

file

Based upon the information provided in your submittal received 1-19-06, the above referenced plan is approved for Site Development Plan for Building Permit action by DRB. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Also, prior to Certificate of Occupancy release, Engineer Certification of the grading plan per the DPM checklist will be required.

P.O. Box 1293

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

Albuquerque

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

New Mexico 87103

www.cabq.gov

Rudy É. Rael, Associate Engineer

Planning Department.

Building and Development Services

(REV. 1/28/2003rd)

PROJECT TITLE: Women's Hospital of NM - West Wing Hospital Add	ition ZONE MAP / DRG. FILE #: F-17 / D10
DRB #:EPC #:	WORK ORDER #:
LEGAL DESCRIPTION: A portion of Tract M-1, University Heights Ho	spital, City of Albuquerque
CITY ADDRESS:	
ENGINEERING FIRM: Isaacson & Arfman, P.A.	
ADDRESS: 128 Monroe St. NE	CONTACT: Bryan Bobrick
CITY, STATE: Albuquerque, NM	PHONE: 268-8828
CITI, STATE. Mibuquerque, Mivi	ZIP CODE: <u>87108</u>
OWNER:	CONTACT:
ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
ARCHITECT: Gregory T. Hicks and Assoc.	CONTACT: David Kines
ADDRESS: 112 Second St. SW	PHONE: 243-7492
CITY, STATE: Albuquerque, New Mexico	ZIP CODE: 87102
SURVEYOR:	CONTACT:
ADDRESS:	PHONE:
CITY, STATE: Albuquerque, New Mexico	ZIP CODE:
CONTRACTOR:	CONTACT:
ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
•	•
CHECK TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
DRAINAGE REPORTDRAINAGE PLAN 1 <sup>ST</sup> REQUIRES TCL or equal	SIA / FINANCIAL GUARANTEE RELEASE
DRAINAGE PLAN 1	PRELIMINARY PLAT APPROVAL
X CONCEPTUAL GRADING & DRAINAGE PLAN	S. DEV. PLAN FOR SUB'D APPROVAL
GRADING PLAN	X SECTOR DI ANI ADDROVAT
EROSION CONTROL PLAN	SECTOR PLAN APPROVALFINAL PLAT APPROVAL
ENGINEER'S CERTIFICATION (HYDROLOGY)	FOUNDATION PERMIT APPROVAL
CLOMR / LOMR	BUILDING PERMIT APPROVAL
TRAFFIC CIRCULATION LAYOUT (TCL)	CERTIFICATE OF OCCUPANCY (PERM)
ENGINEER'S CERTIFICATION (TCL)	CERTIFICATE OF OCCUPANCY (TEMP)
ENGINEER'S CERTIFICATION (DRB APPR, SITE PLAN)	GRADING PERMIT APPROVAL
OTHER	PAVING PERMIT APPROVAL
	WORK ORDER APPROVAL
	OTHED
WAS A PRE-DESIGN CONFERENCE ATTENDED:	
YES	
NO	JAN 1 9 2006
COPY PROVIDED	
	HYDROLOGY SECTION
	LIIDIOLOGI OLOIVI
DATE SUBMITTED: Wednesday, January 18, 2006	BY: Isaacson & Arfman, P.A.

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

### ISAACSON & ARFMAN, P.A.

### Consulting Engineering Associates

Thomas O. Isaacson, PE & LS • Fred C. Arfman, PE Scott M. McGee, PE

January 18, 2006

Hydrology Department City of Albuquerque

RE: WOMEN'S HOSPITAL OF NEW MEXICO (F17-D10)

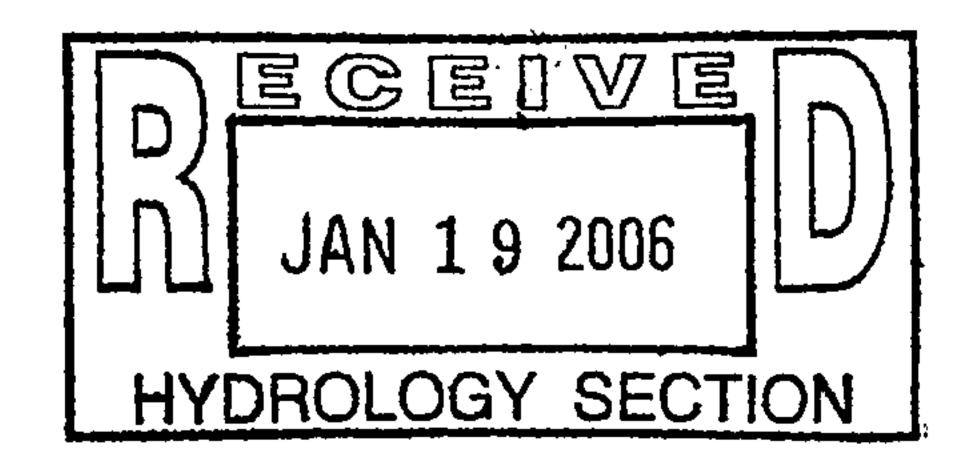
To Whom It May Concern:

Included with this letter is a new Conceptual Drainage and Grading Plan for the above mentioned project. This project was previously approved for Building Permit (see attached copy of approval letter) but due to major site plan changes, the project is going back to EPC for Amended Site Development Plan approval. Previously proposed drainage concepts remain as originally designed.

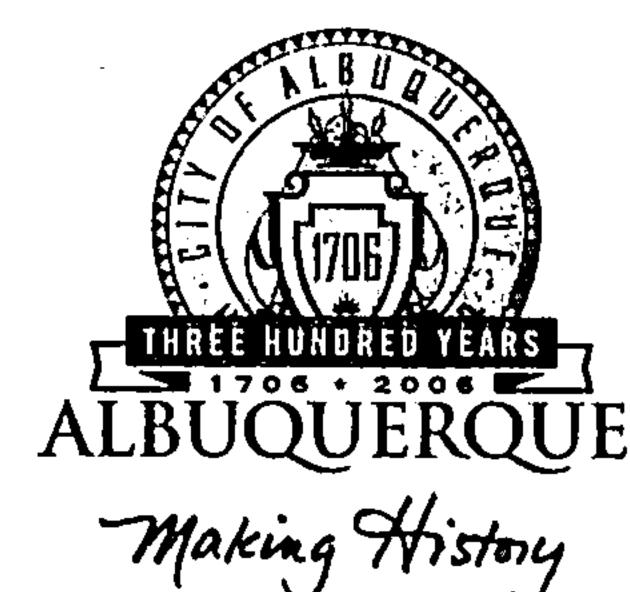
Please don't hesitate to call me or Scott McGee with any questions.

Thanks,

Project Manager

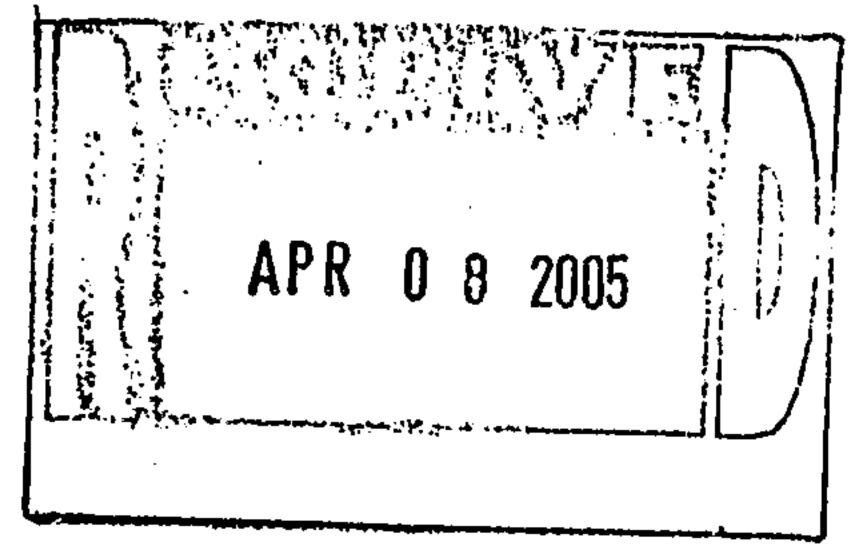


# CTTY OF ALPUQUERQUE



April 7, 2005

Scott McGee, P.E. Isaacson & Arfman, P.A. 128 Monroe St. NE Albuquerque, NM 87108



Re:

Women's Hospital of New Mexico Medical Office Building and Neo-Natal I.C.U., 4701 Montgomery Blvd NE, Grading and Drainage Plan

Engineer's Stamp dated 3-03-05 (F17-D10)

Dear Mr. McGee,

Based upon the information provided in your submittal received 2-22-05, the above referenced plan is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

Albuquerque

P.O. Box 1293

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

New Mexico 87103

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

www.cabq.gov

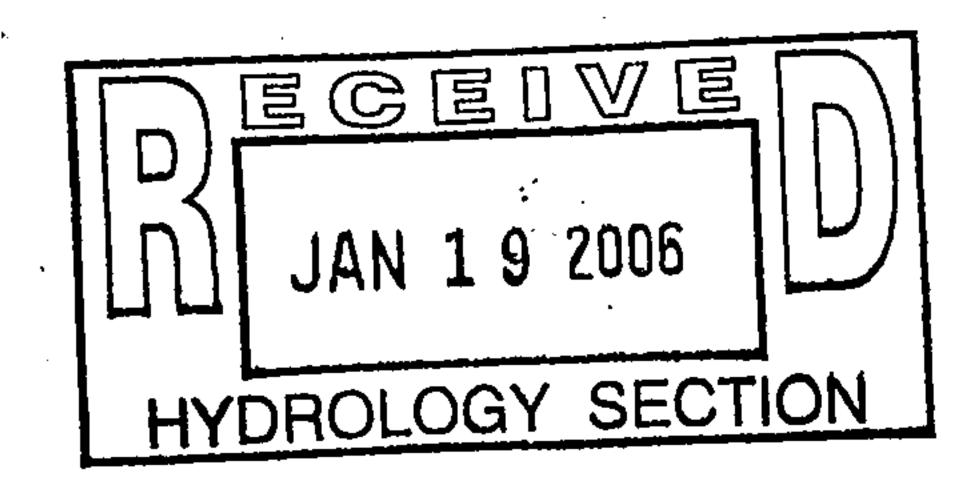
Kristal D. Metro

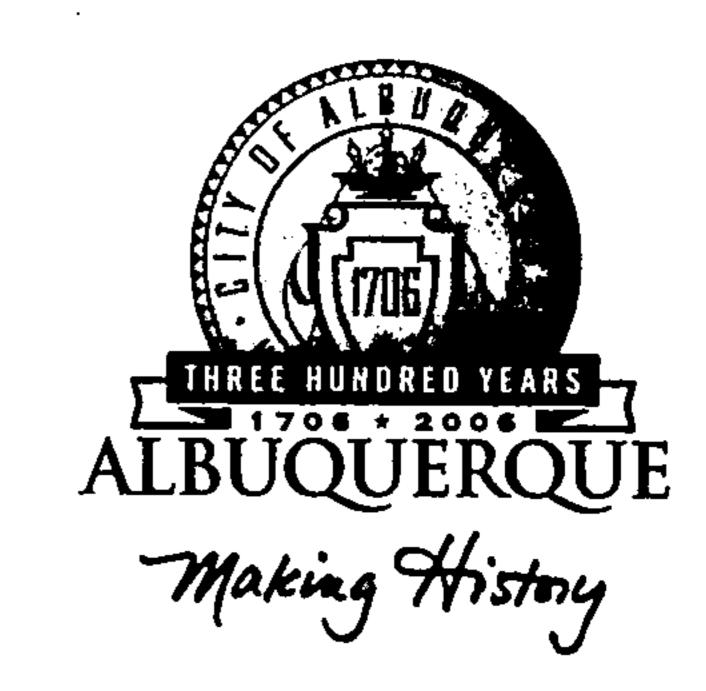
Sincerely,

Engineering Associate, Planning Dept. Development and Building Services

C: Charles Caruso, DMD Storm Drainage Design

File





December 21, 2004

Scott McGee, P.E. Isaacson & Arfman, P.A. 128 Monroe St. NE Albuquerque, NM 87108

Re:

Women's Hospital of New Mexico Parking Lot Remodel Phase 1, 4701 Montgomery Blvd NE, Grading and Drainage Plan

Engineer's Stamp dated 11-18-04 (F17-D10)

Dear Mr. McGee,

Based upon the information provided in your submittal received 11-18-04, the above referenced plan is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

Albuquerque

P.O. Box 1293

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

New Mexico 87103

Kristal D. Metro

Sincerely,

www.cabq.gov

Engineering Associate, Planning Dept. Development and Building Services

C: File

(REV. 1/28/2003rd)

PROJECT TITLE: Women's Hospital of NM - Parking Lot Remodel	
DRB #:EPC #:	WORK ORDER #:
LEGAL DESCRIPTION: A portion of Tract M-1, University Heights H	ospital. City of Albuquerque
CITY ADDRESS:	oopies, Oity of Hibaquorque
ENGINEERING FIRM: Isaacson & Arfman, P.A.	CONTACT: Bryan Bobrick
ADDRESS: 128 Monroe St. NE	PHONE: 268-8828
CITY, STATE: Albuquerque, NM	ZIP CODE: <u>87108</u>
OWNER:	CONTACT:
ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
ARCHITECT: Gregory T. Hicks and Assoc.	CONTACT: Marie Holloway
ADDRESS: 112 Second St. SW	PHONE: 243-7492
CITY, STATE: Albuquerque, New Mexico	ZIP CODE: <u>87102</u>
SURVEYOR:	CONTRACT.
ADDRESS:	CONTACT: PHONE:
CITY, STATE: Albuquerque, New Mexico	ZIP CODE:
CONTRACTOR:	CONTACT:
ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
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XDRAINAGE PLAN RESUBMITTAL	S. DEV. PLAN FOR SUB'D APPROVAL
CONCEPTUAL ORADING & DRAINAGE PLAN	S. DEV. PLAN FOR BLDG. PERMIT APPR.
GRADING PLAN	SECTOR PLAN APPROVAL
EROSION CONTROL PLAN	FINAL PLAT APPROVAL
ENGINEER'S CERTIFICATION (HYDROLOGY)	FOUNDATION PERMIT APPROVAL
CLOMR / LOMR	X BUILDING PERMIT APPROVAL
TRAFFIC CIRCULATION LAYOUT (TCL)	CERTIFICATE OF OCCUPANCY (PERM)
ENGINEER'S CERTIFICATION (TCL)	CERTIFICATE OF OCCUPANCY (TEMP)
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COPY PROVIDED .	HYDROLOGY SECTION
DATE SUBMITTED: Thursday, November 18, 2004	BY:BY: Isaacson & Arfman, P.A.

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



October 27, 2004

Scott McGee, PE Isaacson & Arfman 128 Monroe St NE Albuquerque, NM 87108

Women's Hospital of NM – Parking Remodel Grading and Drainage Plan ? Re: Engineer's Stamp dated 9-10-04 (F17/D10)

Dear Mr. McGee,

P.O. Box 1293

Based upon the information provided in your submittal dated 9-10-04, 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.

Albuquerque

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 924-3986.

New Mexico 87103

www.cabq.gov

Sincerely,

Bradley L. Bingham, PE

Principal Engineer, Planning Dept. Development and Building Services

file

L 13-D010

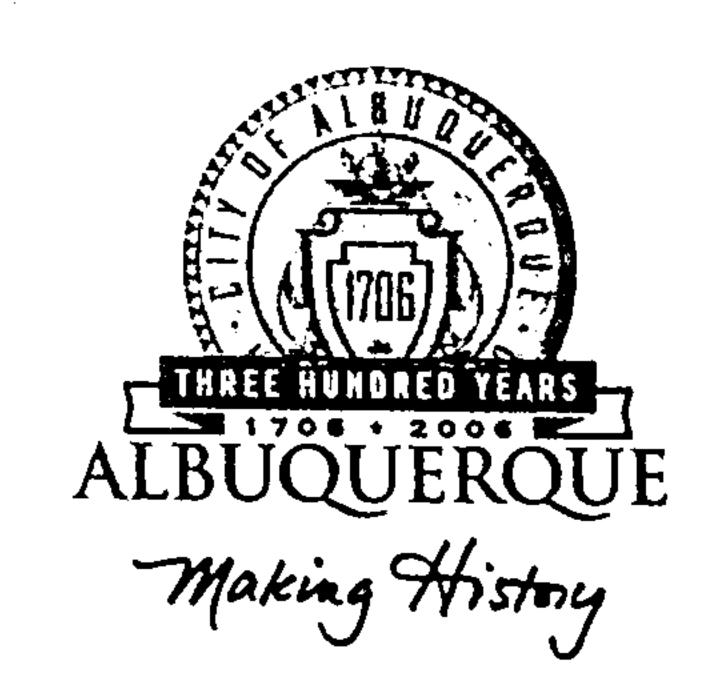
(REV. 1/28/2003rd)

DRB #:	PROJECT TITLE: Women's Hospital of NM - Parking Lot Remodel	ZONE MAP / DRG. FILE #: F-17
CITY ADDRESS:  ENGINEERING FIRM: Isaacson & Arfman, P.A.  ADDRESS: L28 Monroc St. NE.  CITY, STATE: Abuquerque, NM  OWNER:  ADDRESS: PHONE:  CITY, STATE: Abuquerque, NM  CONTACT:  ADDRESS: PHONE:  CITY, STATE: Abuquerque, New Mexico  CONTACT:  ARCHITECT: Gregory T. Hiels and Assoc.  ADDRESS: PHONE:  CITY, STATE: Abuquerque, New Mexico  ZIP CODE:  SURVEYOR:  ADDRESS: 112 Second St. SW  CITY, STATE: Abuquerque, New Mexico  ZIP CODE:  CONTACT:  ADDRESS: PHONE:  CITY, STATE: Abuquerque, New Mexico  ZIP CODE:  CONTACT:  ADDRESS: PHONE:  CITY, STATE: Abuquerque, New Mexico  ZIP CODE:  CONTACT:  ADDRESS: PHONE:  ZIP CODE:  CONTACT:  ARTHEL FORLOW  CONTACT:  ARTHEL FORLOW  ADDRESS: PHONE:  ZIP CODE:  CONTACT:  ARTHEL FORLOW  ADDRESS:  PHONE:  ZIP CODE:  CONTACT:  ARTHEL FORLOW  ADDRESS:  PHONE:  ZIP CODE:  CONTACT:  ARTHEL FORLOW  ADDRESS:  PHONE:  ZIP CODE:  CONTACT:  ARTHEL FORLOW  ADDRESS:  PHONE:  ZIP CODE:  CONTACT:  ARTHEL FORLOW  ADDRESS:  ARTHEL FORLOW  ARTHEL FORLOW  ADDRESS:  ARTHEL FORLOW  ARTHEL FORLOW  ADDRESS:  ARTHEL FORLOW	DRB #:EPC #:	WORK ORDER #:
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ENGINEERING FIRM: Isaacson & Arfman, P.A.  ADDRESS: 128 Montos St. NE. CITY, STATE: Albuquerque, NM.  OWNER:  ADDRESS: PHONE: 268-8828  CONTACT: Bryan Bobrick  PHONE: 268-8828  ZIP CODE: \$7108  CONTACT: PHONE: 219 CODE: \$7108  CONTACT: PHONE: 219 CODE: \$7108  ARCHITECT: Gregory T. Hicks and Assoc. ADDRESS: LI2 Second St. SW. CITY, STATE: Albuquerque, New Mexico  ZIP CODE: \$7102  SURVEYOR: CONTACT: Marie Holloway		
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	COPY PROVIDED	
	DATE SUBMITTED: Friday, September 10, 2004	

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

September 26, 2006

Scott M. McGee, PE Isaacson & Arfman, PA 128 Monroe St. NE. Albuquerque, NM 87108



Re: Womens Hospital of NM, 4701 Montgomery Blvd NE

Grading and Drainage Plan

Engineer's Stamp dated 9-06-06 (F-17/D10)

Dear Mr. McGee,

Based upon the information provided in your submittal received 9-08-06, the above referenced plan is approved for Foundation permit. Prior to Building Permit show all inverts and Rims. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Also, prior to Certificate of Occupancy release, Engineer Certification of the grading plan per the DPM checklist will be required.

P.O. Box 1293

If you have any questions, you can contact me at 924-3977.

Albuquerque

New Mexico 87103

www.cabq.gov

C: file

Rúdy É. Rael, Associate Engineer

Planning Department.

Building and Development Services

(REV. 1/28/2003rd)

PROJECT TITLE: Lovelace Women's Hospital of NM - Foundation Permit  DRB #: EPC #:	<del></del>	
LEGAL DESCRIPTION: A portion of Tract M-1, University Heights Hospital, CITY ADDRESS: 4701 Montgomery BLVD NE	City of Albuquerque	
ENGINEERING FIRM: Isaacson & Arfman, P.A.  ADDRESS: 128 Monroe St. NE  CITY, STATE: Albuquerque, NM	CONTACT: Bryan Bobrick PHONE: 268-8828 ZIP CODE: 87108	
OWNER: LOVELACE  ADDRESS:  CITY, STATE:	CONTACT:PHONE: ZIP CODE:	
ARCHITECT Earl Swensson Assoc.  ADDRESS: 2100 West End Ave Vanderbilt Plaza  CITY, STATE: Nashville Tennessee	CONTACT: Mark Watson PHONE ZIP CODE: 37203	
SURVEYOR: Forstbauer Surveying  ADDRESS:  CITY, STATE: Albuquerque, New Mexico	CONTACT: Ron Forstbauer  PHONE: 268-2112-2	
CONTRACTOR:  ADDRESS:  CITY, STATE:	CONTACT:PHONE: ZIP CODE:	
CHECK TYPE OF SUBMITTAL:  DRAINAGE REPORT  DRAINAGE PLAN 1 <sup>ST</sup> REQUIRES TCL or equal  DRAINAGE PLAN RESUBMITTAL  X CONCEPTUAL GRADING & DRAINAGE PLAN  EROSION CONTROL PLAN  ENGINEER'S CERTIFICATION (HYDROLOGY)  CLOMR / LOMR  TRAFFIC CIRCULATION LAYOUT (TCL)  ENGINEER'S CERTIFICATION (DRB APPR, SITE PLAN)  OTHER	S. DEV. PLAN FOR BLDG. PERMIT APPR.  SECTOR PLAN APPROVAL  FINAL PLAT APPROVAL  BUILDING PERMIT APPROVAL  CERTIFICATE OF OCCUPANCY (PERM)  CERTIFICATE OF OCCUPANCY (TEMP)  GRADING PERMIT APPROVAL  PAVING PERMIT APPROVAL  WORK ORDER APPROVAL	
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DATE SUBMITTED: Thursday, September 07, 2006	BY: Isaacson & Arfman, P.A.	

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



November 8, 2006

Scott M. McGee, P.E. Isaacson & Arfman, P.A. 128 Monroe NE Albuquerque, NM 87108

Women's Hospital N.I.C.U. Addition, Engineer's Stamp dated 11-2-06 Re:

4701 Montgomery NE Building Addition (F17/D10)

Dear Mr. McGee,

Based on the information contained in your submittal received on November 3, 2006, the above referenced plan is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Prior to Certificate of Occupancy release, Engineer Certification per the DPM

checklist will be required.

This project will also require a National Pollutant Discharge Elimination System (NPDES) permit. Inquiries regarding this permit should be directed to Sertil Kandar with the DMD Storm Drainage Design section at 768-3654 or 768-3645.

If you have any questions or need additional information, feel free to contact me

at 924-3990.

Sincerely,

New Mexico 87103

P.O. Box 1293

Albuquerque

www.cabq.gov Jeremy Hoover, P.E.

> Senior Engineer Hydrology Section

Development and Building Services

file (F17/D10)CC:

(REV. 1/28/2003rd)

PROJECT TITLE: Lovelace Women's Hospital of	NM NICU Shell	ZONE MAP / DRG. FILE #: F-17 / D10
DRB #:E	PC #:	WORK ORDER #:
IECAL DESCRIPTIONS A portion of Treat M 1	I Iniversity Unighta Heanite	1 City of Albuquosano
LEGAL DESCRIPTION: A portion of Tract M-1, CITY ADDRESS: 4701 Montgomery BLVD NE		u, City of Albuquerque
ENGINEERING FIRM: Isaacson & Arfman, P.A.		CONTACT: Bryan Bobrick
ADDRESS: 128 Monroe St. NE	· <del></del>	PHONE: 268-8828
CITY, STATE: Albuquerque, NM		ZIP CODE: <u>87108</u>
OMNIED. LOVELACE		CONTRA CT.
OWNER: LOVELACE ADDRESS:		CONTACT:
<del></del>	· · · · · · · · · · · · · · · · · · ·	_ PHONE:
CITY, STATE:		ZIP CODE:
ARCHITECT Earl Swensson Assoc.		CONTACT: Mark Watson
ADDRESS: 2100 West End Ave_Vande	rbilt Plaza	PHONE
CITY, STATE: Nashville Tennessee		ZIP CODE: <u>37203</u>
CLIDA/EN/OD. Commons Constituted I C # 0606		CONTRACT. Don Cronov
SURVEYOR: Surveys Southwest LS # 8686		CONTACT: Dan Graney
ADDRESS: 333 Lomas NE		PHONE: 998-0303
CITY, STATE: <u>Albuquerque, New Mexi</u>	ico	ZIP CODE: <u>87102</u>
CONTRACTOR:		CONTACT:
ADDRESS:	<u></u>	PHONE:
CITY, STATE:		ZIP CODE:
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DATE SUBMITTED: Thursday, November 02, 20	'UU	BY: Isaacson & Arfman, P.A.

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

OCTOBER 4, 2006

### SUPPLEMENTAL INFORMATION

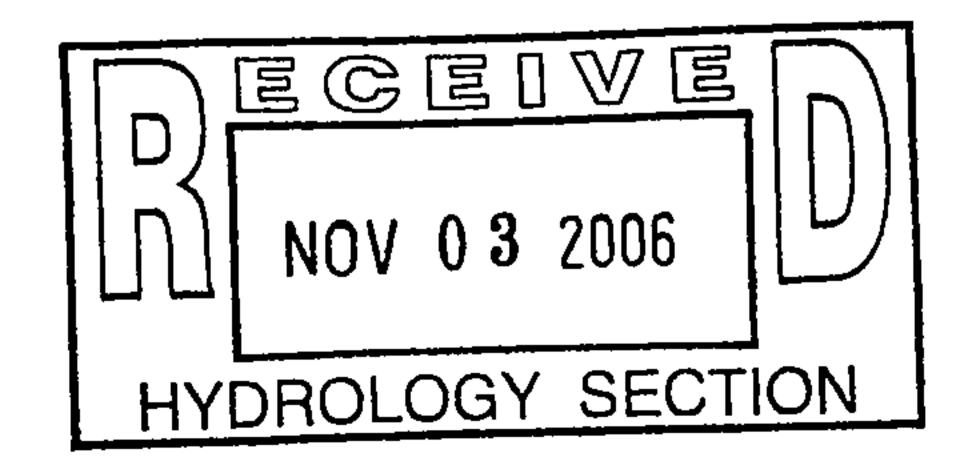
FOR

# LOVELACE WOMEN'S HOSPITAL N.I.C.U.

BY

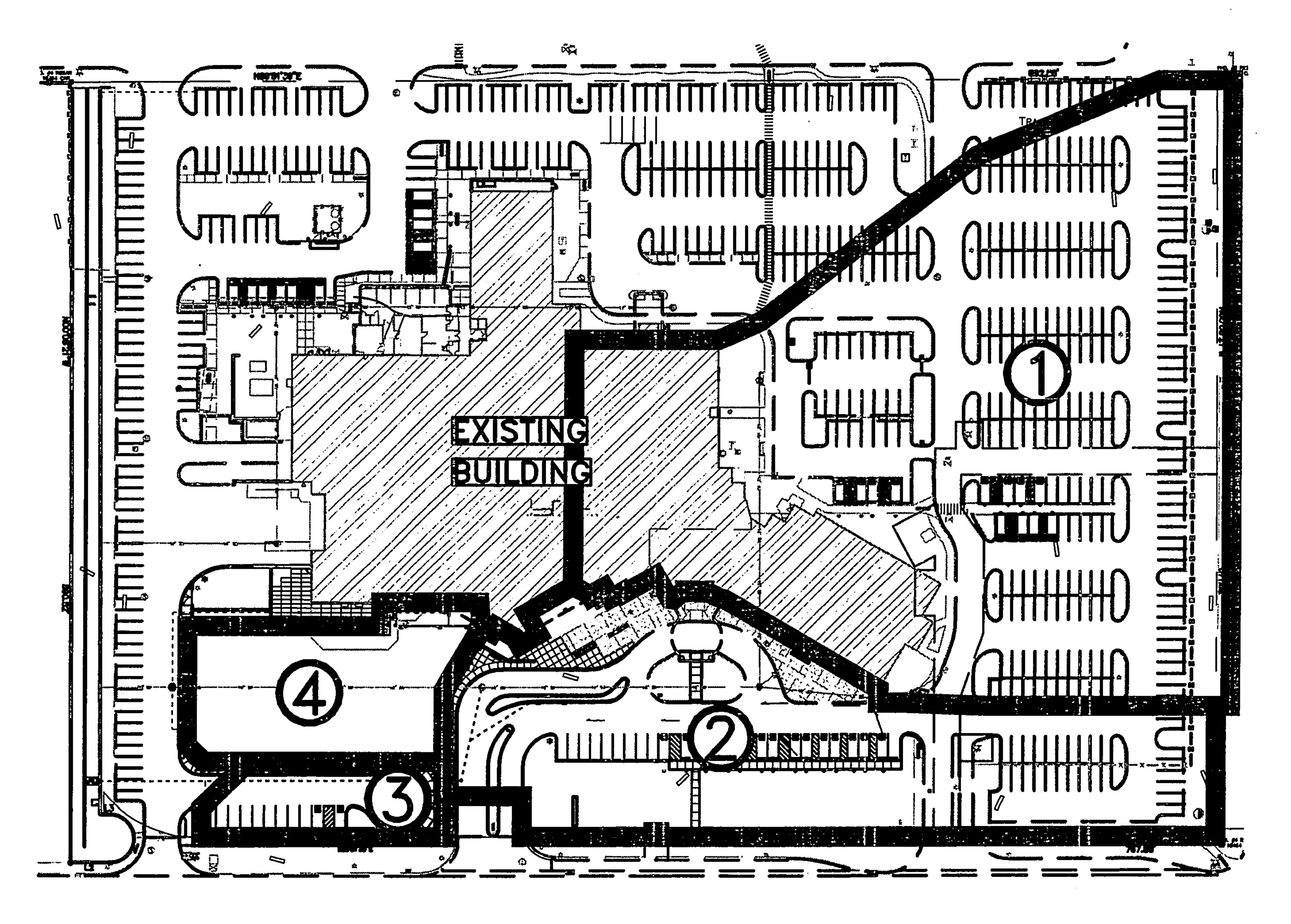


1410.2



### REPORT CONTENTS

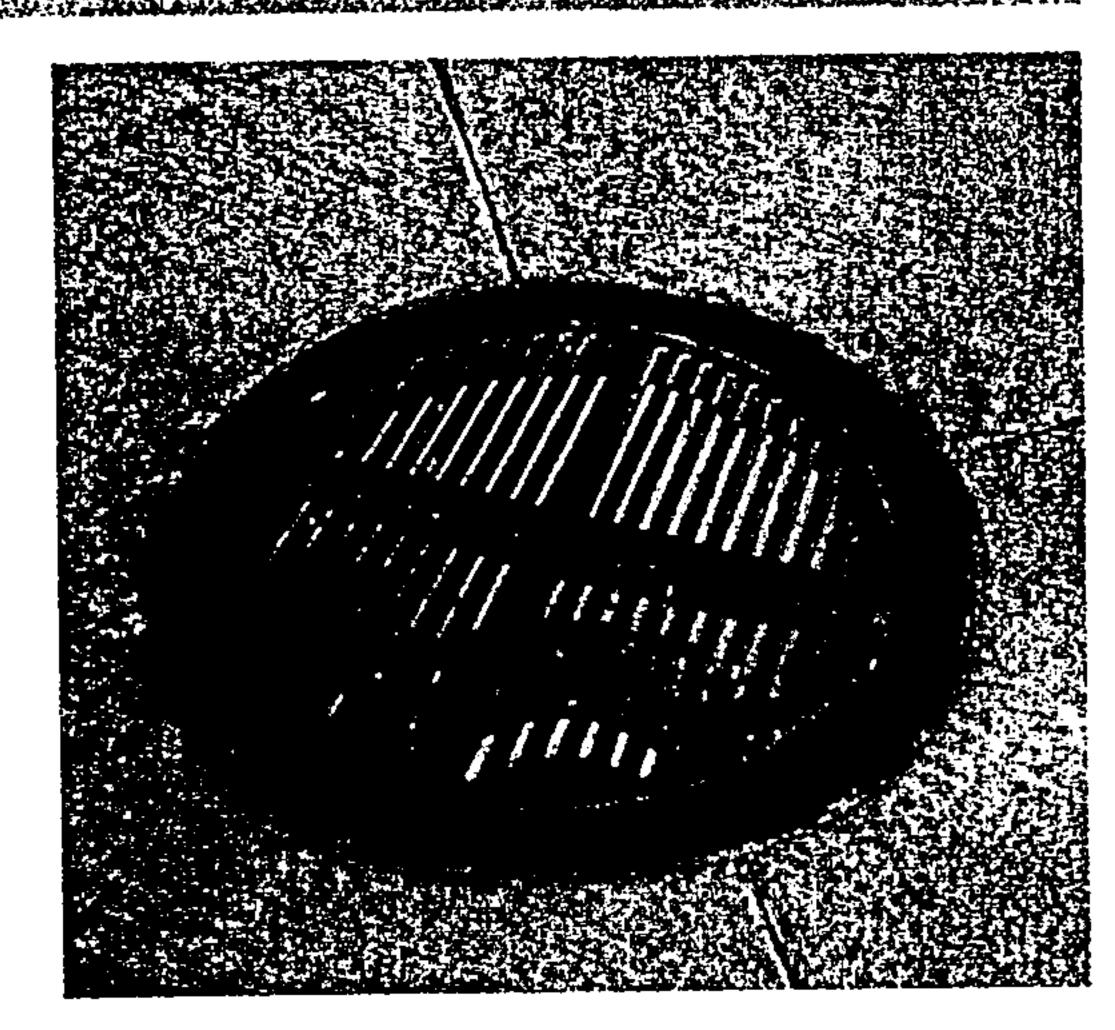
Overall Site with Sub-basins	
Sub-basin Calculations	
MH#1 (30") Information	3
MH#2 (24") Information	
Inlets A, B and C Installation Information	
Inlets A, B and C Grate Information	
Inlets A, B and C Grate Capacity Information	_
MH#3 (12") Information	
Inlets D and E Grate Information	9
18" Diameter Storm Drain Calculations	1 ^
24" Diameter Storm Drain Calculations	
	••••••• 1 1



OVERALL SITE WITH SUB-BASINS INDICATED: 1"=100"

### 1410-2 Revised DPM Calculations - 100 yr 6 hr1

BASIN NO. 1		DESCRIPTION	
Area of basin flows =	168835		3.9 Ac.
The following calculation	ns are based on Tre	eatment areas as shown in table to the right	
	Sub-basin Weight	ed Excess Precipitation (see formula above	2)
	Weighted E	= 1.95 in.	TREATMENT
	Sub-basin Volume	e of Runoff (see formula above)	A = 0%
	V360	= 27492 CF	B= 5%
	Sub-basin Peak D	ischarge Rate: (see formula above)	C = 10%
	Qp_	= 17.1 cfs	D = 85%
BASIN NO. 2		DESCRIPTION	
Area of basin flows =	76145	SF =	1.7 Ac.
The following calculation		eatment areas as shown in table to the right	
		ted Excess Precipitation (see formula above	
	Weighted E	= 1.80 in.	TREATMENT
		e of Runoff (see formula above)	A =0%
	V360	= 11438 CF	B = 20%
	Sub-basin Peak Di	ischarge Rate: (see formula above)	C = 5%
	<u>Qp</u>	= 7.2 cfs	D = 75%
DACINI NIO			
BASIN NO. 3	0520	DESCRIPTION	
Area of basin flows =	ns are based on Tre	SF =	0.2 Ac.
Area of basin flows =	ns are based on Tre	SF =eatment areas as shown in table to the right	
Area of basin flows =	ns are based on Tre Sub-basin Weight	SF  eatment areas as shown in table to the right led Excess Precipitation (see formula above	2)
Area of basin flows =	ns are based on Tre Sub-basin Weight Weighted E	SF eatment areas as shown in table to the right ted Excess Precipitation (see formula above = 2.02 in.	TREATMENT
Area of basin flows =	ns are based on Tre Sub-basin Weight Weighted E Sub-basin Volume	eatment areas as shown in table to the right ted Excess Precipitation (see formula above 2.02 in.  e of Runoff (see formula above)	TREATMENT  A = 0%
Area of basin flows =	ns are based on Tre Sub-basin Weighted E Sub-basin Volume V360	SF eatment areas as shown in table to the right ted Excess Precipitation (see formula above = 2.02 in. e of Runoff (see formula above) = 1605 CF	TREATMENT  A = 0%  B = 0%
Area of basin flows =	ns are based on Tre Sub-basin Weighted E Sub-basin Volume V360	SF eatment areas as shown in table to the right ted Excess Precipitation (see formula above = 2.02 in. te of Runoff (see formula above) = 1605 CF tischarge Rate: (see formula above)	TREATMENT  A = 0%  B = 0%  C = 10%
Area of basin flows =	ns are based on Tre Sub-basin Weighted E Sub-basin Volume V360	SF = [ eatment areas as shown in table to the right ted Excess Precipitation (see formula above = 2.02 in. e of Runoff (see formula above) = 1605 CF eischarge Rate: (see formula above) = 1.0 cfs	TREATMENT  A = 0%  B = 0%  C = 10%  D = 90%
Area of basin flows = The following calculation	ns are based on Tre Sub-basin Weighted E Sub-basin Volume V360 Sub-basin Peak D  Qp	SF = [ eatment areas as shown in table to the right ted Excess Precipitation (see formula above = 2.02 in. e of Runoff (see formula above) = 1605 CF bischarge Rate: (see formula above) = 1.0 cfs  DESCRIPTION	TREATMENT  A = 0%  B = 0%  C = 10%  D = 90%
Area of basin flows = The following calculation  BASIN NO. 4 Area of basin flows =	ns are based on Tre Sub-basin Weighted E Sub-basin Volume V360 Sub-basin Peak D  Qp  21660	SF = [ eatment areas as shown in table to the right ted Excess Precipitation (see formula above = 2.02 in. e of Runoff (see formula above) = 1605 CF bischarge Rate: (see formula above) = 1.0 cfs  DESCRIPTION	TREATMENT  A = 0%  B = 0%  C = 10%  D = 90%  0.5 Ac.
Area of basin flows = The following calculation  BASIN NO. 4 Area of basin flows =	ns are based on Tre Sub-basin Weighted E Sub-basin Volume V360 Sub-basin Peak D  Qp  21660  ns are based on Tre	SF =  eatment areas as shown in table to the right ted Excess Precipitation (see formula above = 2.02 in. e of Runoff (see formula above) = 1605 CF eischarge Rate: (see formula above) = 1.0 cfs  DESCRIPTION  SF =   Output  DESCRIPTION	TREATMENT  A = 0%  B = 0%  C = 10%  D = 90%  0.5 Ac.
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# Ductile Iron Grates for Every Traffic Situation, Weight Load and Site Requirement

- H-25 Heavy-duty grates
- Medium-duty grates
- Solid covers H-25 rated
- Bronze grates
- Domed grates
- Drop-in grates

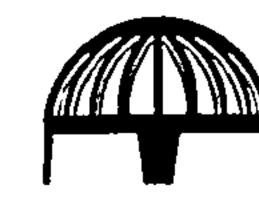
### Locking option is available for all grates.

All grate options are available for drain basins and inline drains.

### Ductile Iron Grates meet the following ASTM standards.

ASTM A536 grate 70-50-05 for ductile iron. ASTM A-48-83 class 30B for 12" & 15" cast iron frames.





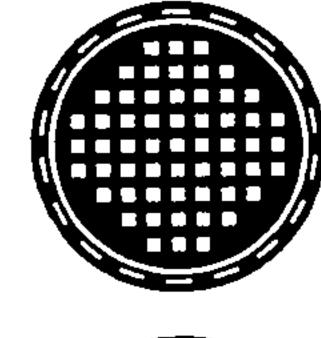
8", 10", Dome Light-Duty



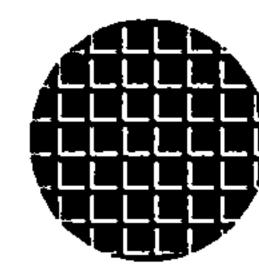
18", 24" & 30" Dome Light-Duty



8" & 10"
Standard
Light-Duty
(also available in bronze)



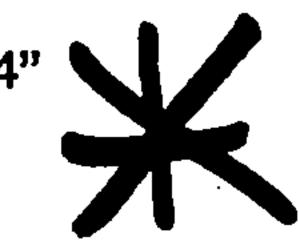
18" Standard H-25



8" & 10" Solid Light-Duty



18" & 24" Solid H-25

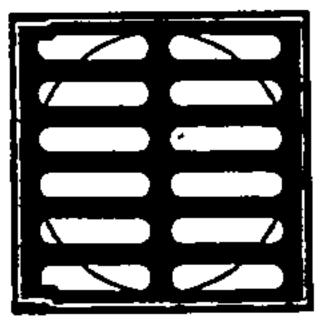




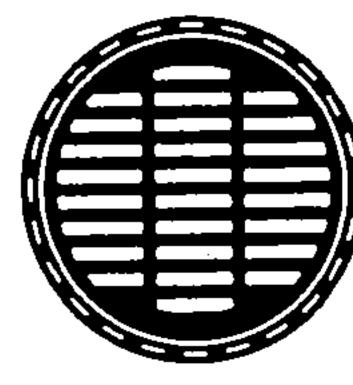
12" & 15" Dome Light-Duty



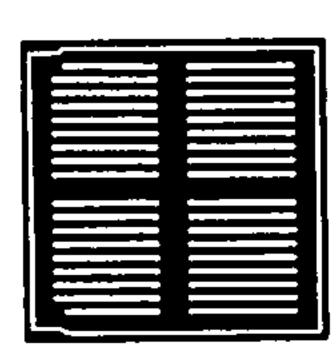
18" Pedestrian H-10



12" & 15"
Standard
H-25
Hinged
Design



24" Standard H-25



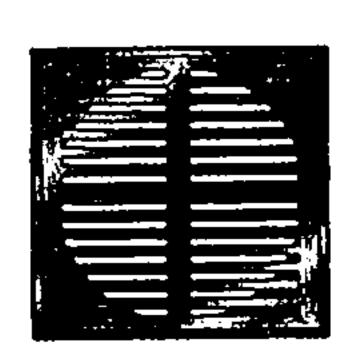
12" & 15" Pedestrian H-10

Hinged

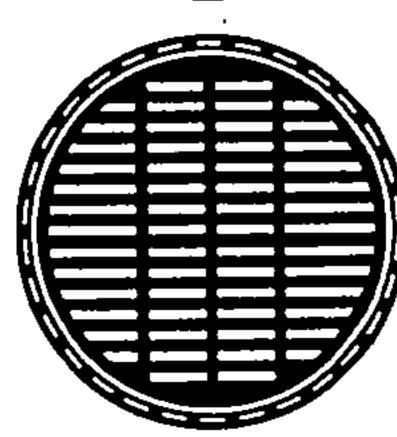
Design



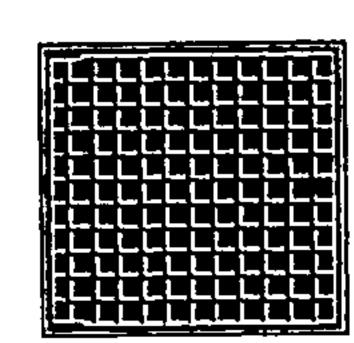
24" Pedestrian H-10



12" & 15"
Pedestrian
Light-Duty
Bronze

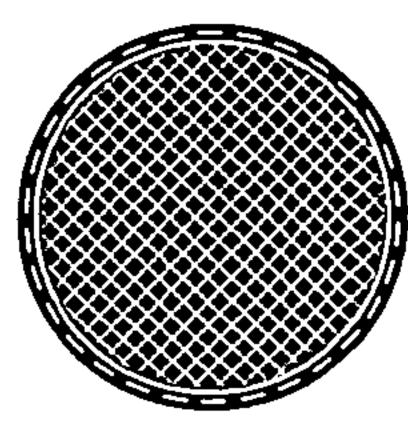


30" Standard H-25



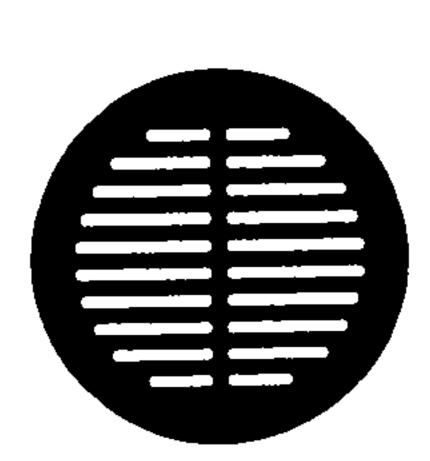
12" & 15" Solid H-25 *Hinged* 

Design



30" Solid H-25

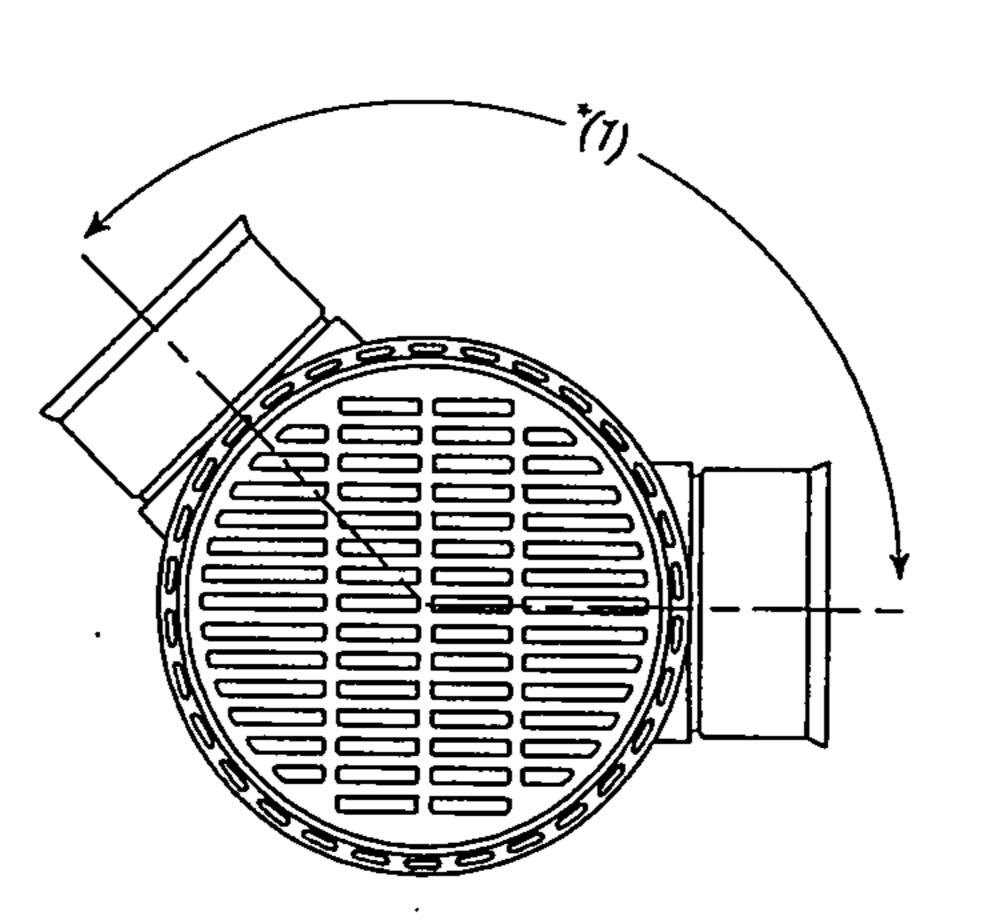




### **Drop-In Grates**

Our light-duty Drop-In Grates provide easy installation by eliminating the need for a frame and adapt to a variety of commonly used pipes.

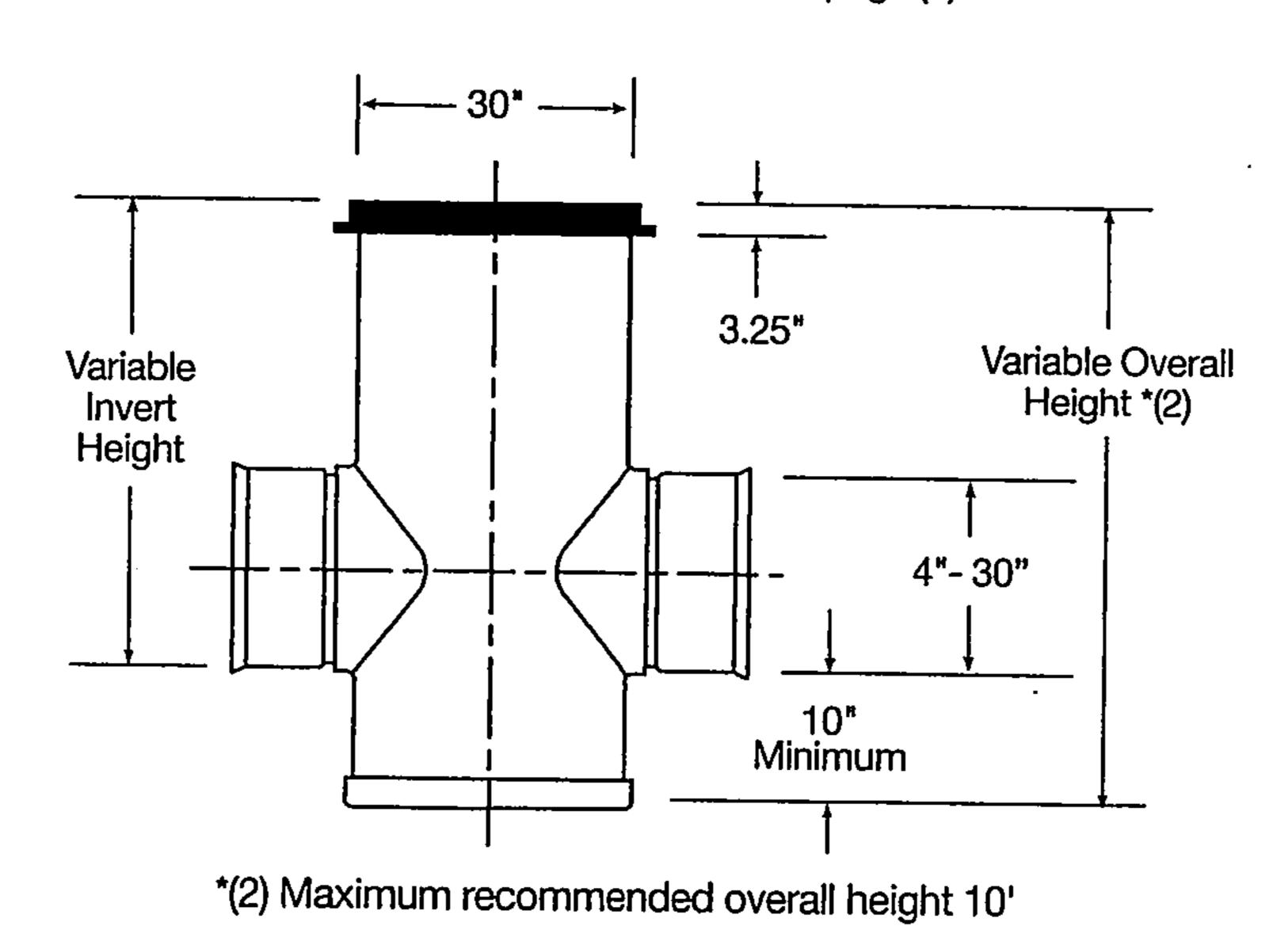
Part#/Prefix	Product Description	Available Outlets	
2830AGX	30" Custom Basin	4" thru 30"	



MH#1 (30")
Inlet = 24"
Outlet - 24"

\*(1) Adapters can be mounted on any angle 0° to 359°.

To determine minimum angle between adapters please see chart on page (1).

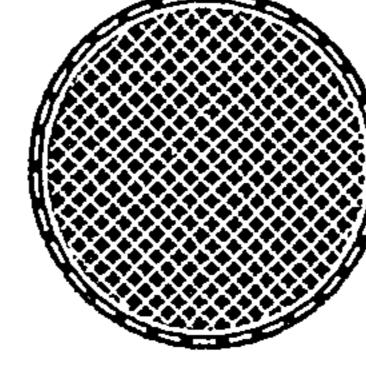


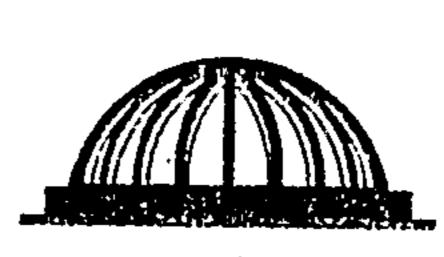










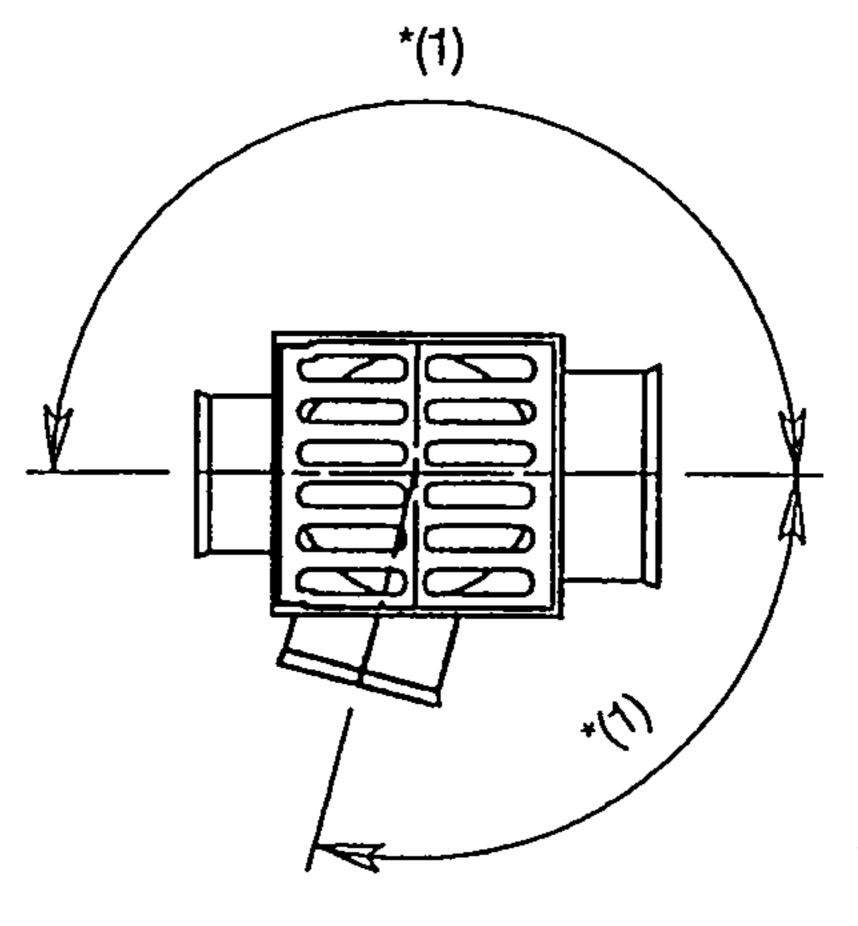


Standard H-25 Rated

Solid

Domed

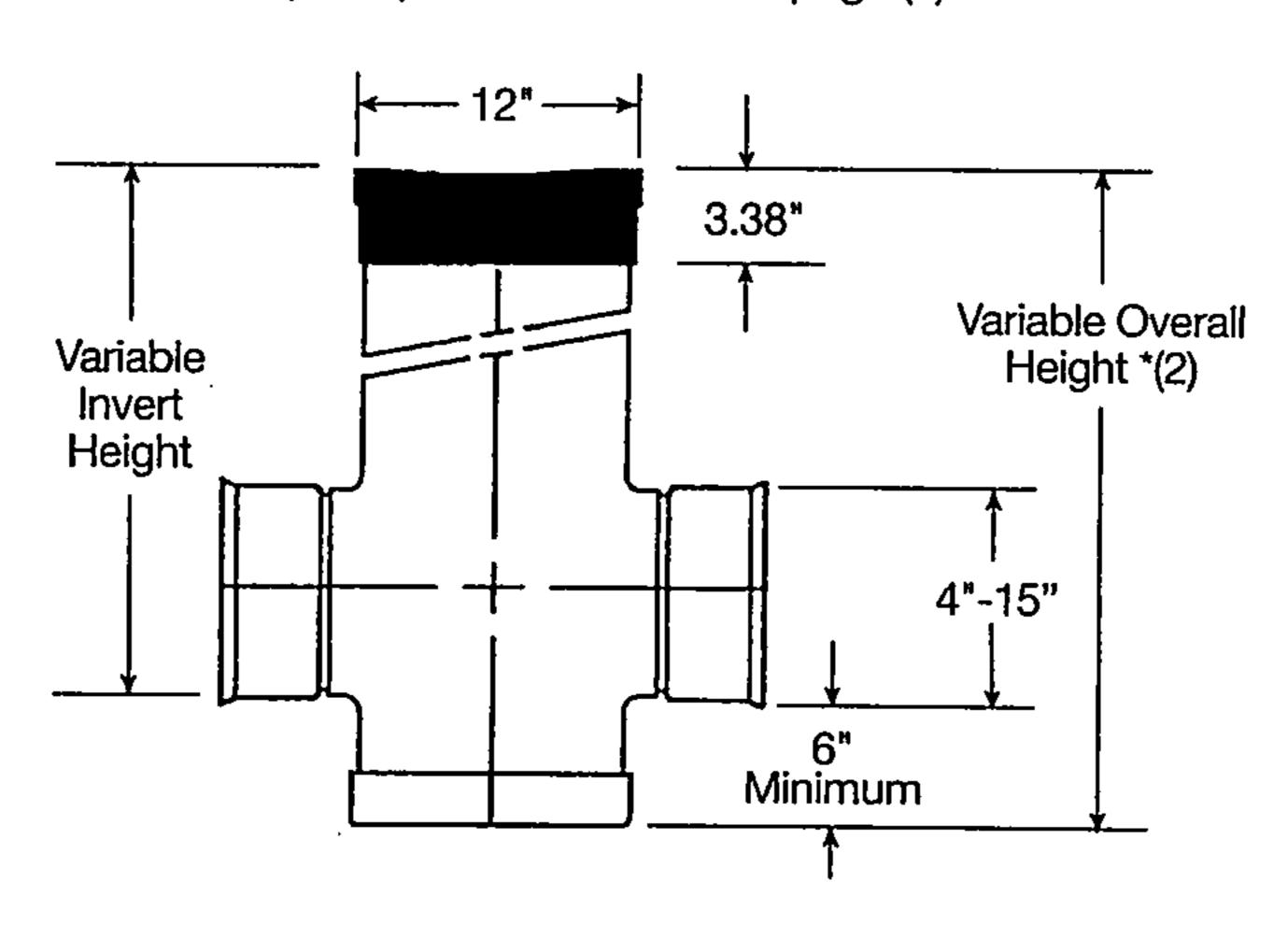
		the same of the first transfer of the same
Part#/Prefix	Product Description	Available *** Outlets ***
2812AGX	12" Custom Basin	4" thru 12"
2815AGX	15" Custom Basin	4" thru 15"



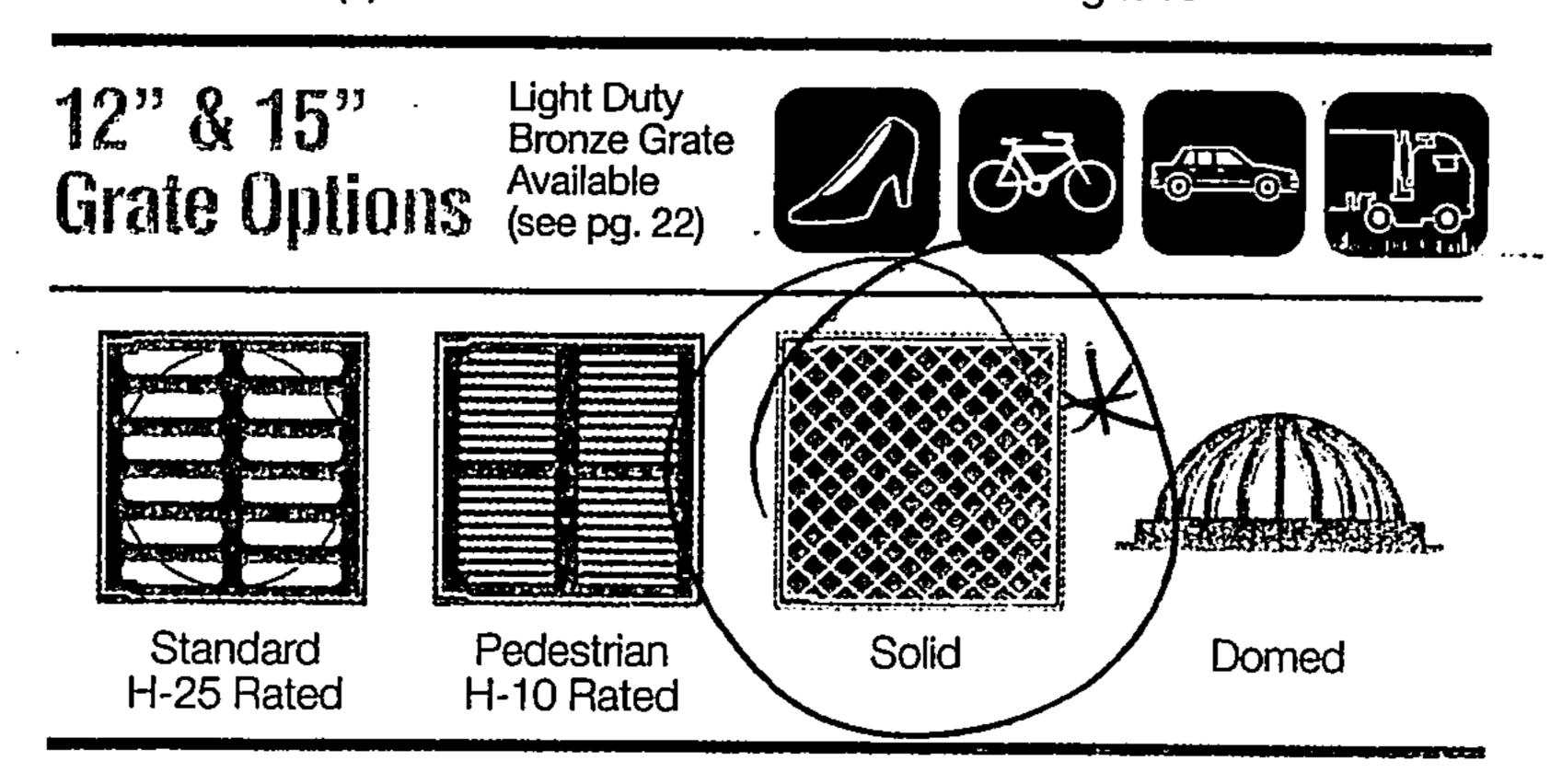
\*(1) Adapters can be mounted on any angle 0° to 359°.

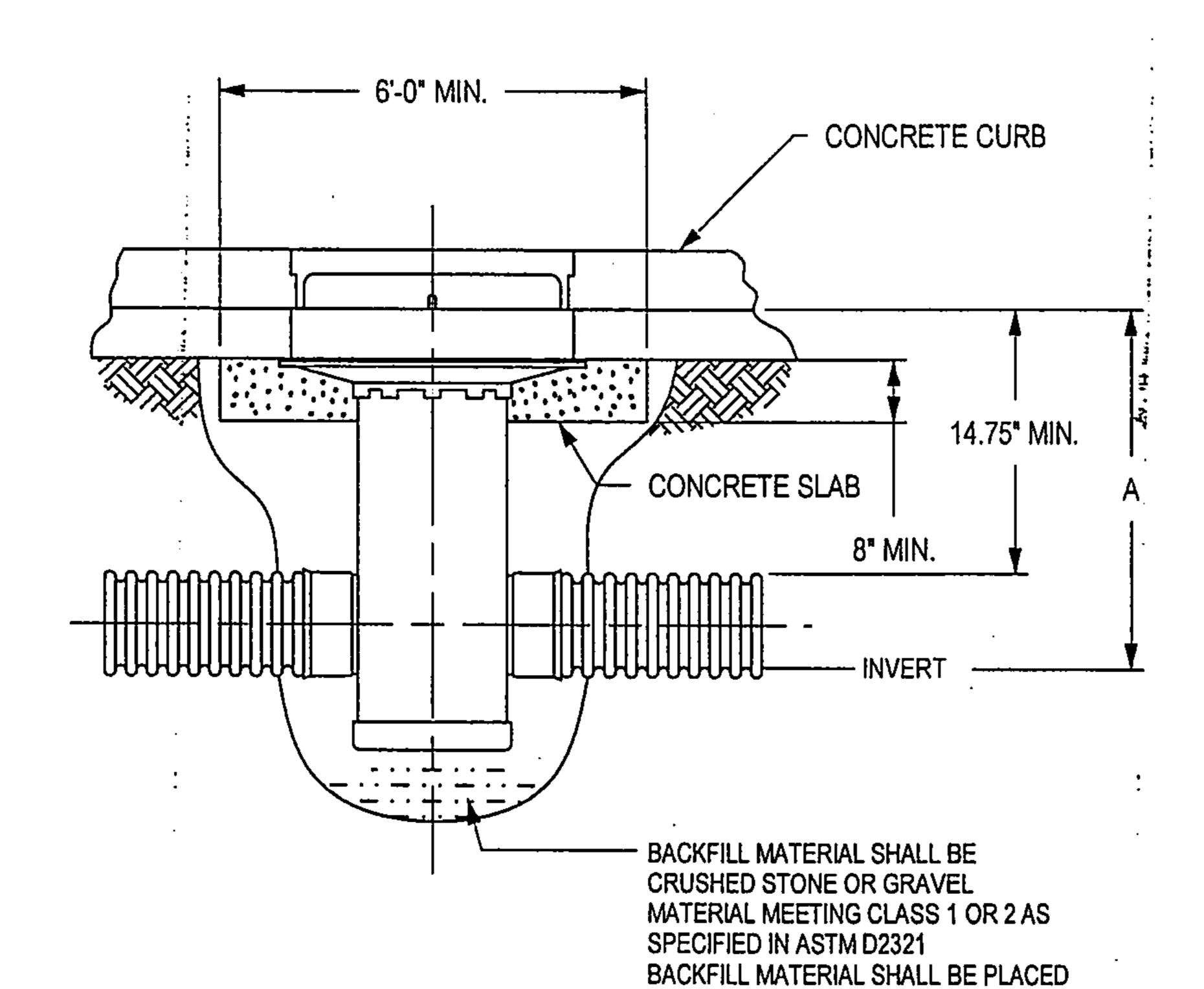
Inlet = 12" Outlet - 12" <= 180°

To determine minimum angle between adapters please see chart on page (1).



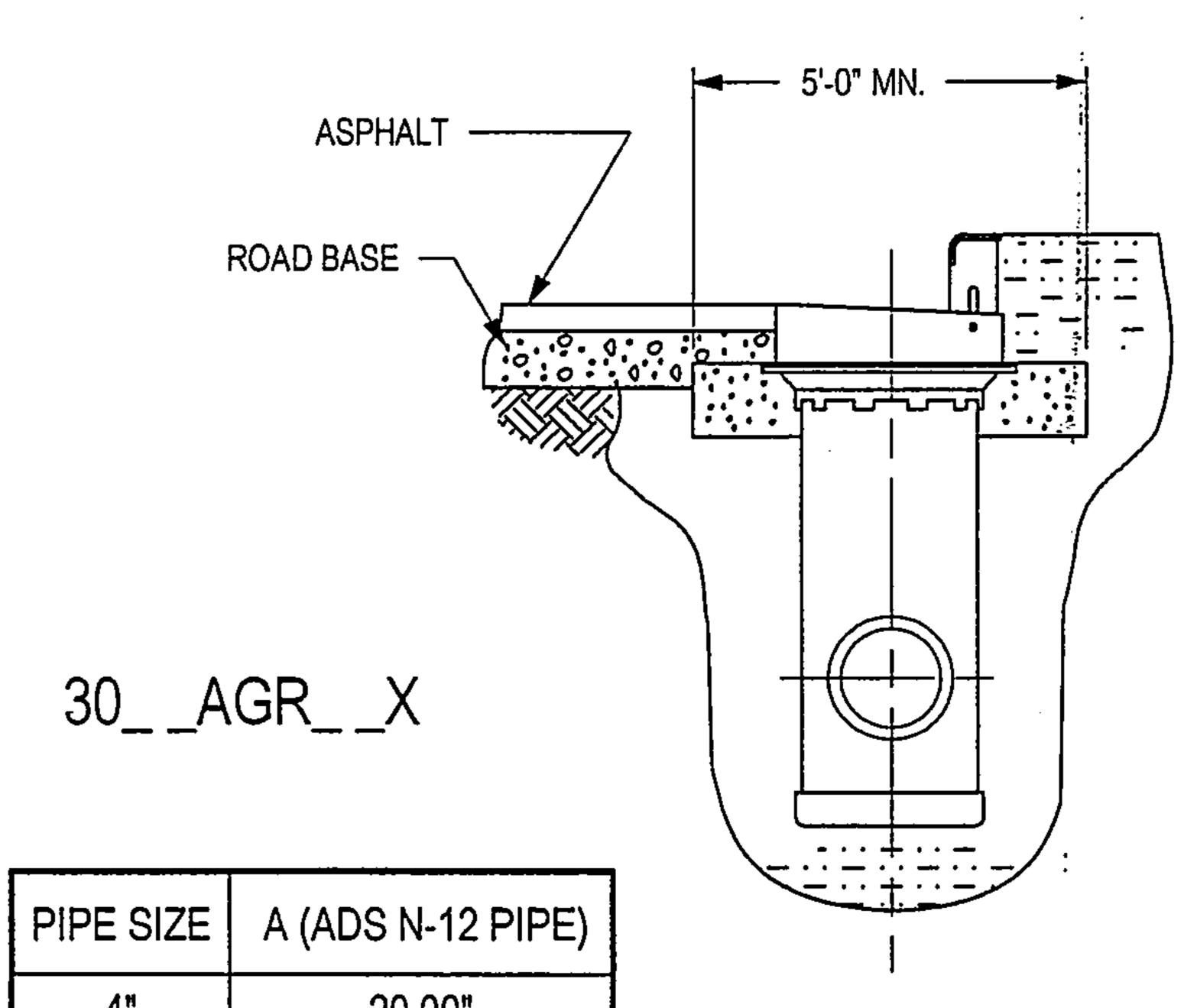
\*(2) Maximum recommended overall height 10'





UNIFORMLY IN 12" LIFTS AND

COMPACTED



PIPE SIZE	A (ADS N-12 PIPE)
4"	20.00"
6"	22.00"
8"	24.00"
10".	26.00"
12"	29.00"
15"	32.00"
18"	35.00"
24"	42.00"
30"	48.00"

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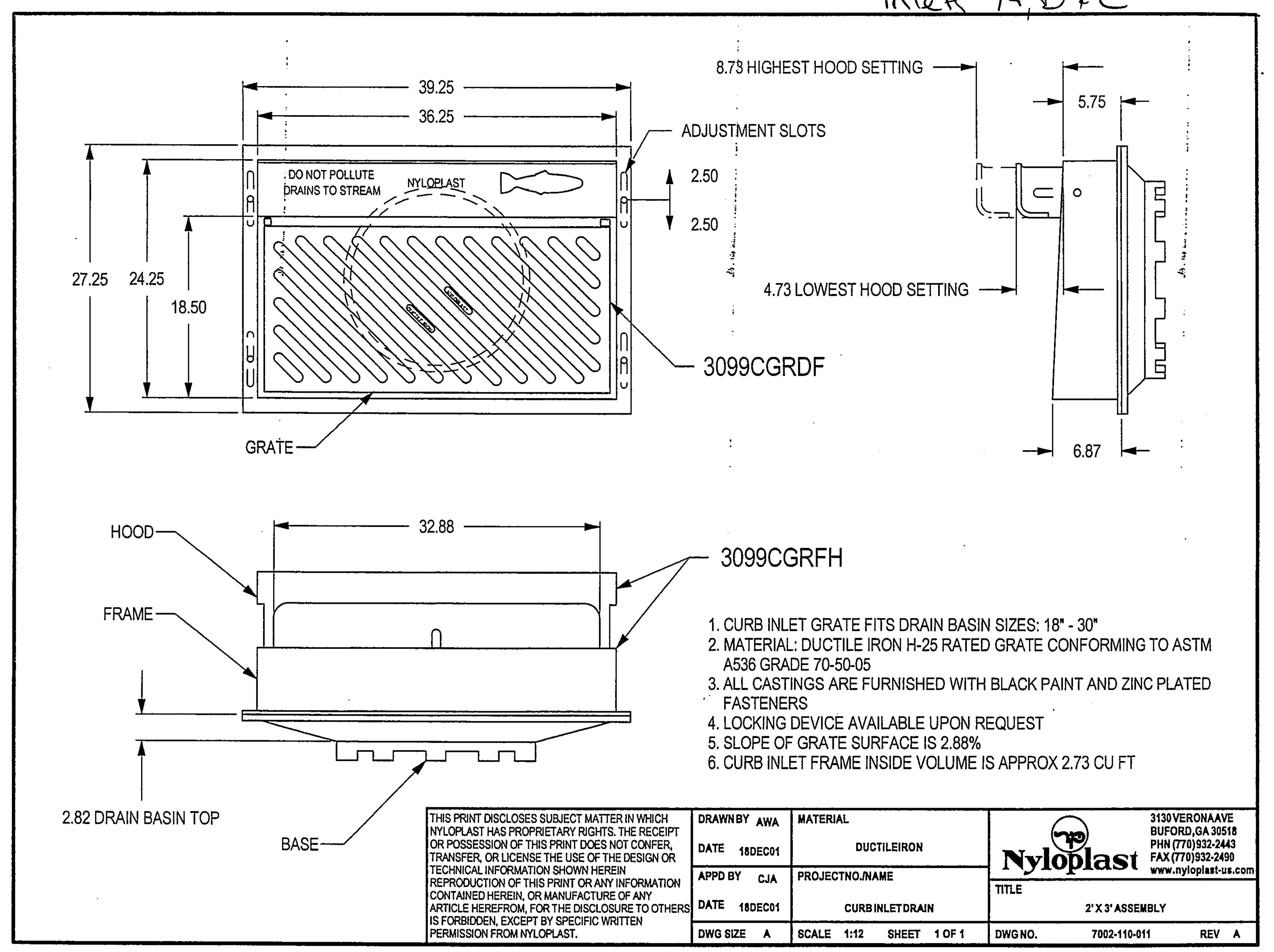
T	DRAWN BY AWA	MATERIAL	
	DATE 18DEC01		
ų.	APPD BY CJA	PROJECTNO./NAME	TITLE
RS	DATE 18DEC01	CURB INLET DRAIN	111122
	DWG SIZE A	SCALE NTS SHEET 1 OF 1	DWG NO.

3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com

2'X 3' INSTALLATION

7002-110-010 REV A

Inlet AB¢C



## NyloplastCurbinletCapacityChart

This chart is based on equations from the FAA Airport Drainage AC 150/5320-5B, 1970, Page 35. Certain assumptions have been made and no two installations will necessarily perform the same way. Safety factors should change with site conditions such that a safety factor 1.25 should be used for an inlet in pavement, and a safety factor of 2.0 should be used in turf areas.

Basin Outlet - Pipe Size :	Flow Rate CFS *	
4"	0.229	
6" .	0.662	
8"	1.441	
10"	2.612	
12"	4.152	
15" 3	7.126	
18"	12.163	<del>、</del> 米
24"	25.821	
30"	52.173	

\* Maximum flow capacity before curb inlet basin begins to backfill. Calculation based on an average pipe slope of 1%.

	Nyloplast2' X 3' DiagonalCurb Inlet Grate O O'S'	
		Hood Settings
		Highest
		Highest Lowest + 3"
		Lowest + 2"
		Lowest
S		1
Capacity, CFS		-11.3ch
paci		, ,, ,
ర		7,0
	0.00 0.10 0.20 0.30 0.40 0.50 0.60 0.70 0.80 0.90 1.00 1	$1.10  \bigcirc  \bigcirc  \bigcirc  \bigcirc  \bigcirc  \bigcirc  \bigcirc  \bigcirc  \bigcirc  $
	Head, Feet	

3099CGRDF

Basin #2 = 7.2 cts

© 0.5 head, capacity = 12.4 cts x 50% clasing

Factor = 6.2 cts.

Basin #3 = 1.0 cfs //

@ 1.0' had, capacity = ZZ. lects x 50% closing factor = 11.3 cts.

	THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH	DRAWN	BY
	NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR	DATE	180
- 1	TECHNICAL INFORMATION SHOWN HEREIN	APPD B	Υ
	REPRODUCTION OF THIS PRINT OR ANY INFORMATION		•
i	CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS	DATE	180
	IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST.	DWG SI	ZE

_		<u> </u>	
	DRAWN BY AWA	MATERIAL	
	DATE 18DEC01	•	Nylo
i	APPD BY CJA	PROJECTNO./NAME	<u> </u>
			TITLE
S	DATE 18DEC01	CURB INLET DRAIN	2' X 3'

SHEET

1 OF 1

SCALE 1:2

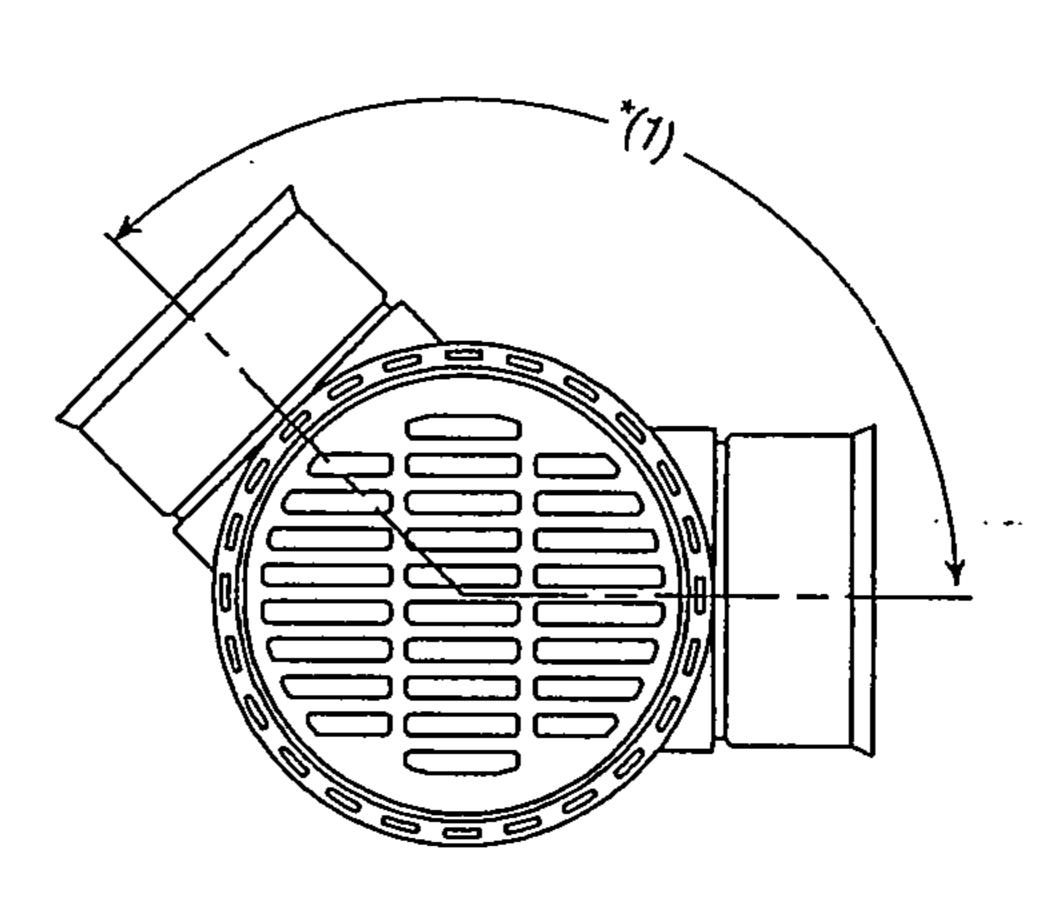
3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com

TLE
2' X 3' DIAGONAL INLET CAPACITY

DWG NO. 7002-110-017 REV A

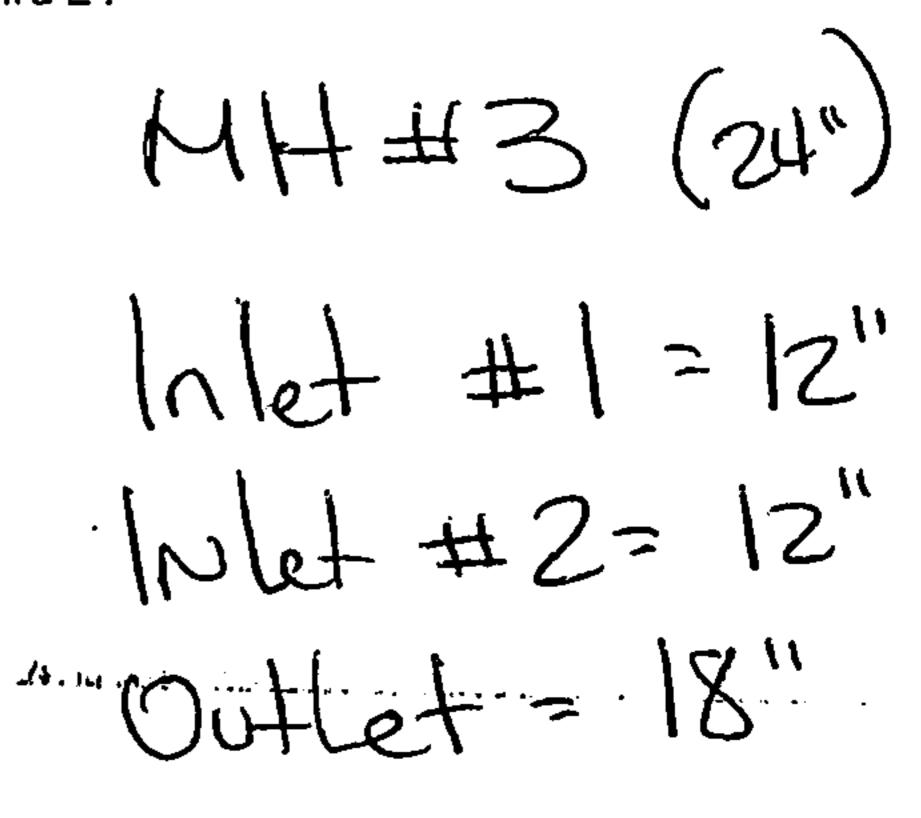


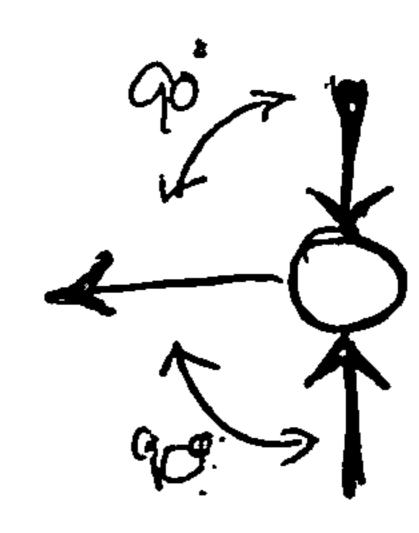
Part#/Prefix	Product Description	Available Outlets
2824AGX	24" Custom Basin	4" thru 24"

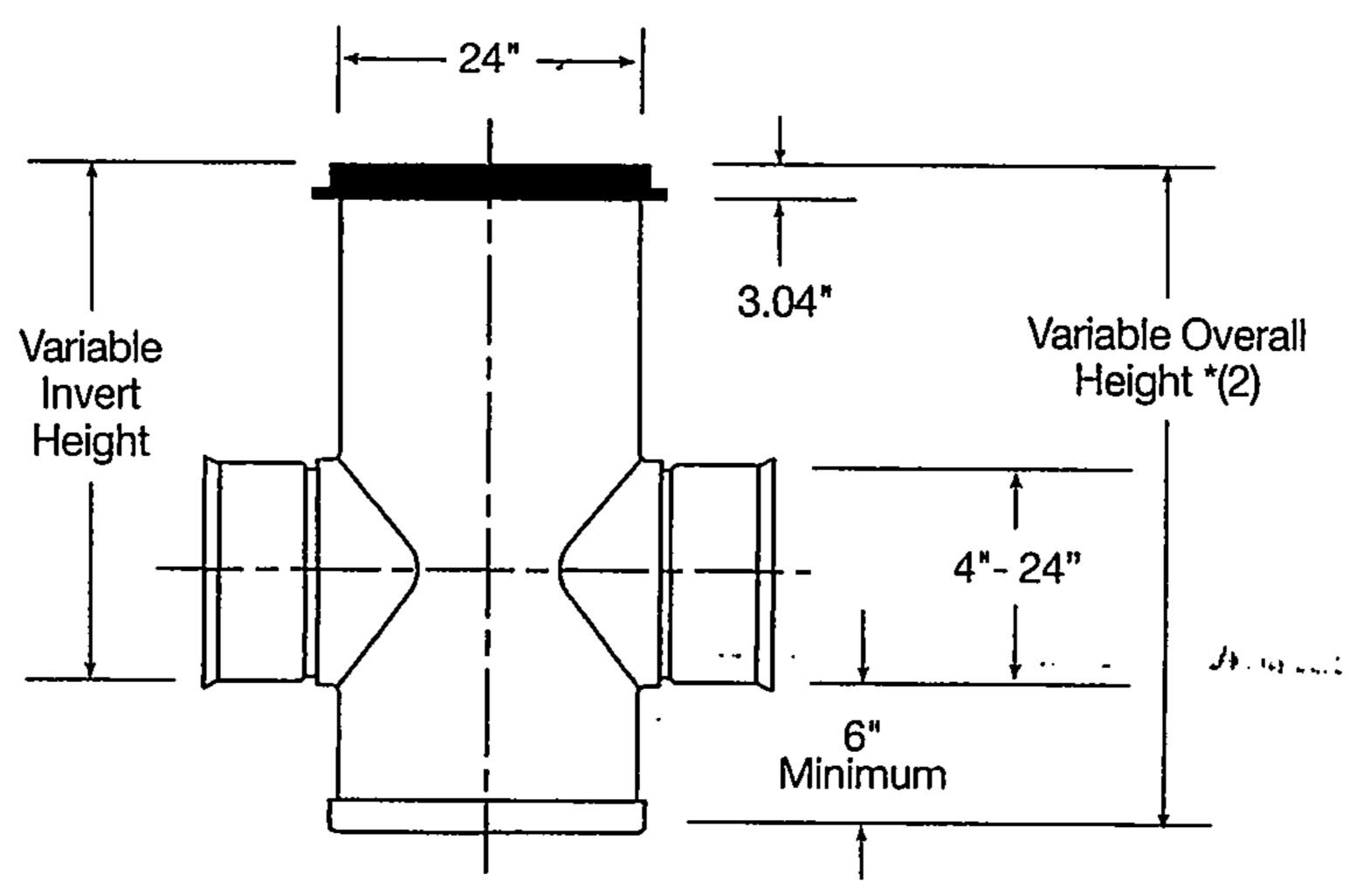


\*(1) Adapters can be mounted on any angle 0° to 359°.

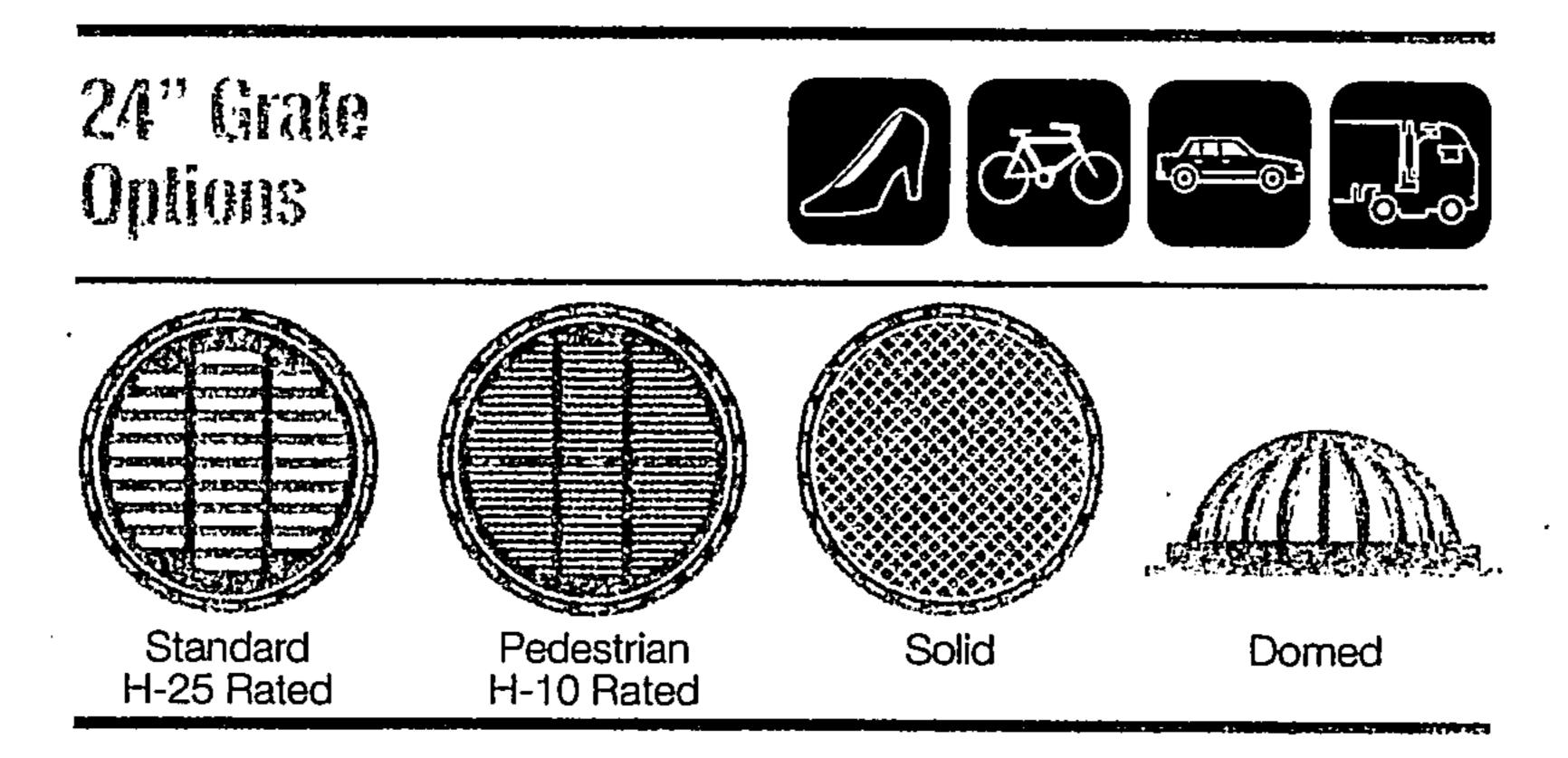
To determine minimum angle between adapters please see chart on page (1).

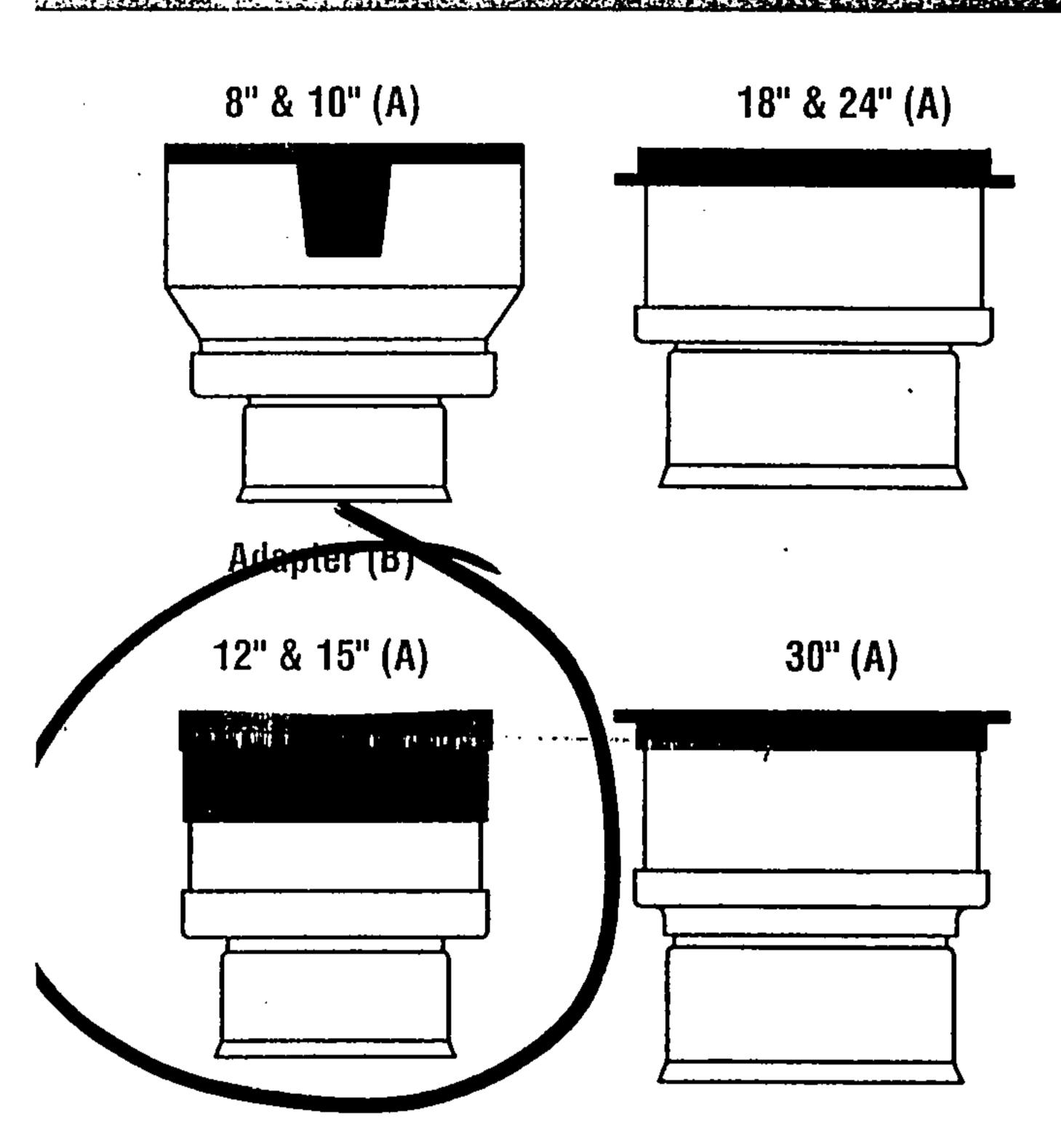






\*(2) Maximum recommended overall height 10'



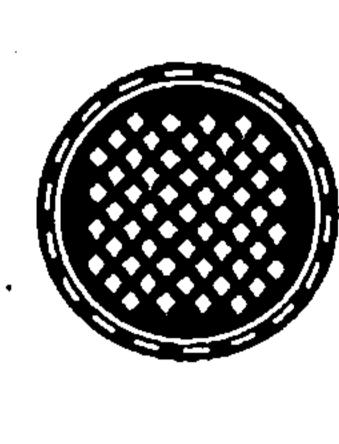


Part #	<u>Drain Basin</u>	Adapts to Pipe Dia.
2708AG	8"	4", 6"
2710AG	10"	4", 6", 8"
2712AG	12"	4", 6", 8", 10", 12"
2715AG	15"	4", 6", 8", 10", 12", 15"
2718AG	18"	4", 6", 8", 10", 12", 15", 18"
2724AG	24"	4", 6", 8", 10", 12", 15", 18", 24"
2730AG	30"	4", 6", 8", 10", 12", 15", 18", 24", 30

3-7 day lead times are required for product delivery.



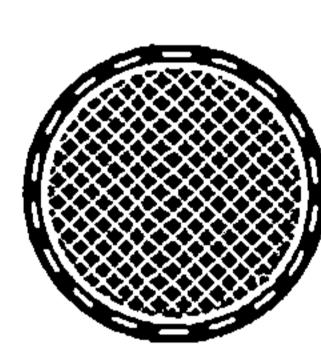
Light-Duty 8' - 0899CGD 10" - 1099CGD



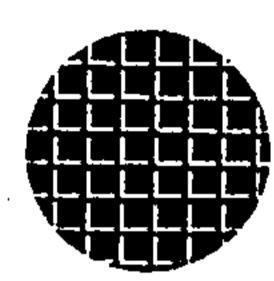
Standard H-25 18" - 1899CGS



Standard **Light-Duty** 8" - 0899CGS 10' - 1099CGS **Light-Duty Bronze** 8" - 0899CGB 10' - 1099CGB



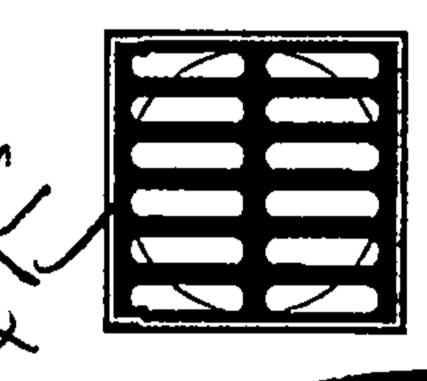
Solid H-25 18" - 1899CGS 25" - 2499CGS



Solid **Light-Duty** 8\* - 0899CGC 10" - 1099CGC



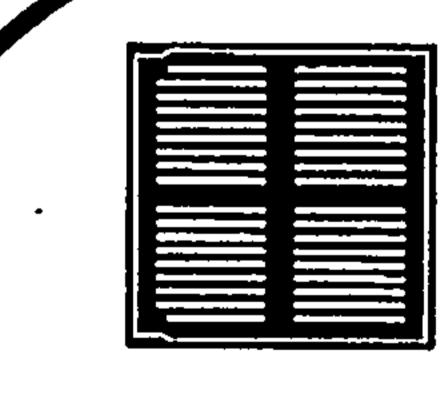
Pedestrian H-10 18\* - 1899CGP



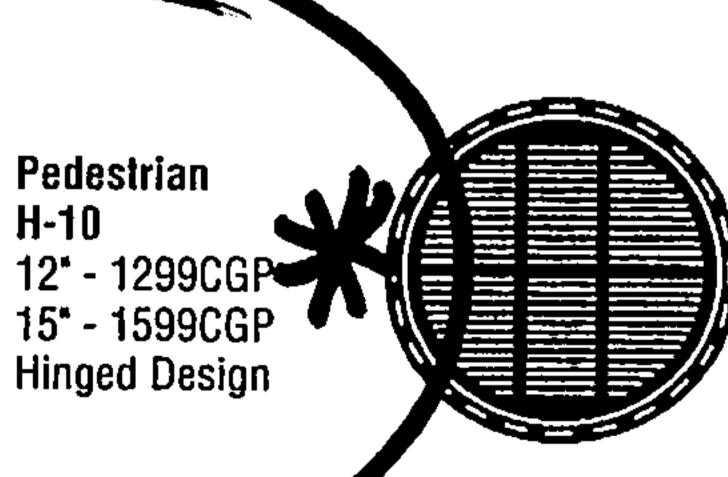
Standard H-25 12" - 1299CGS 15" - 1599CGS Hinged Design



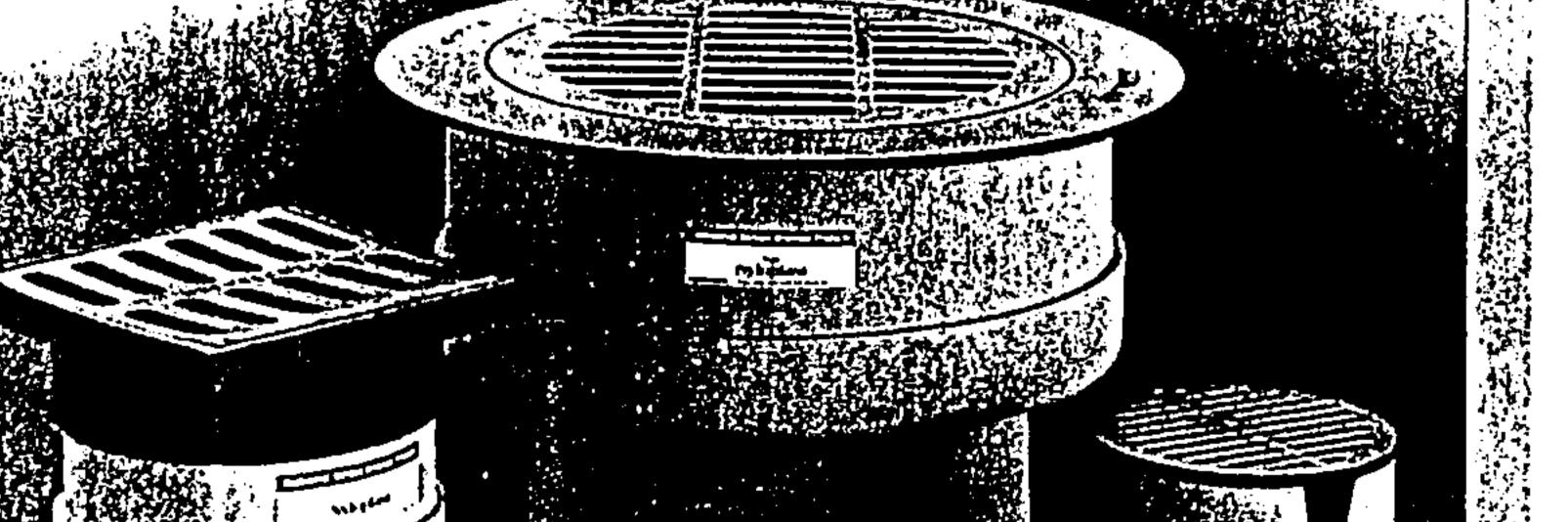
Standard H-25 24" - 2499CGS



Pedestrian H-10 12" - 1299CGP 15" - 1599CGP

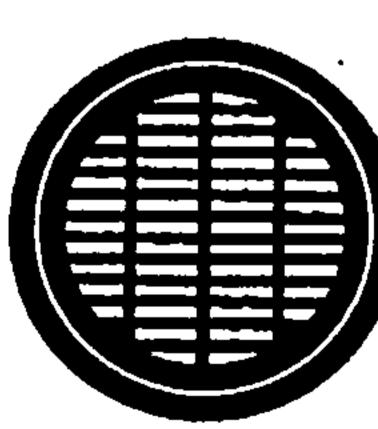


Pedestrian H-10 24" - 2499CGP

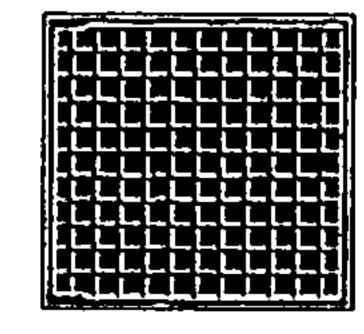


Bronze Pedestrian **Light-Duty** 

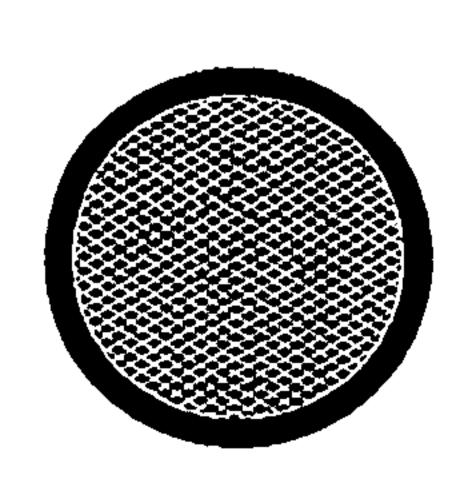




Standard H-25 30\* - 3099CGS



H-25 12" - 1299CGC 15" - 1599CGC Hinged Design



Solid H-25 30" - 3099CGC

# 18" diameter storm drain Worksheet for Circular Channel

Project Description	on
Project File	c:\haestad\academic\fmw\1410.fm2
Worksheet	18" Storm Drain
Flow Element	Circular Channel
Method	Manning's Formula
Solve For	Discharge

Input Data		
Mannings Coefficient	0.009	
Channel Slope	0.006700 ft/ft	
Depth	1.50	ft
Diameter	18.00	in

		<del></del>
Results		<del></del>
Discharge	12.42	cfs
Flow Area	1.77	ft²
Wetted Perimeter	4.71	ft
Top Width	0.37e-7	ft
Critical Depth	1.33	ft
Percent Full	100.00	
Critical Slope	0.005977	7 ft/ft
Velocity	7.03	ft/s
Velocity Head	0.77	ft
Specific Energy	2.27	ft
Froude Number	0.18e-3	
Maximum Discharge	13.36	cfs
Full Flow Capacity	12.42	cfs
Full Flow Slope	0.006700	Oft/ft
Flow is subcritical.		
Full Flow Capacity Full Flow Slope	12.42	cfs

BASIN #2 = 7.2cfs < 12.42cfs

# 24" diameter storm drain Worksheet for Circular Channel

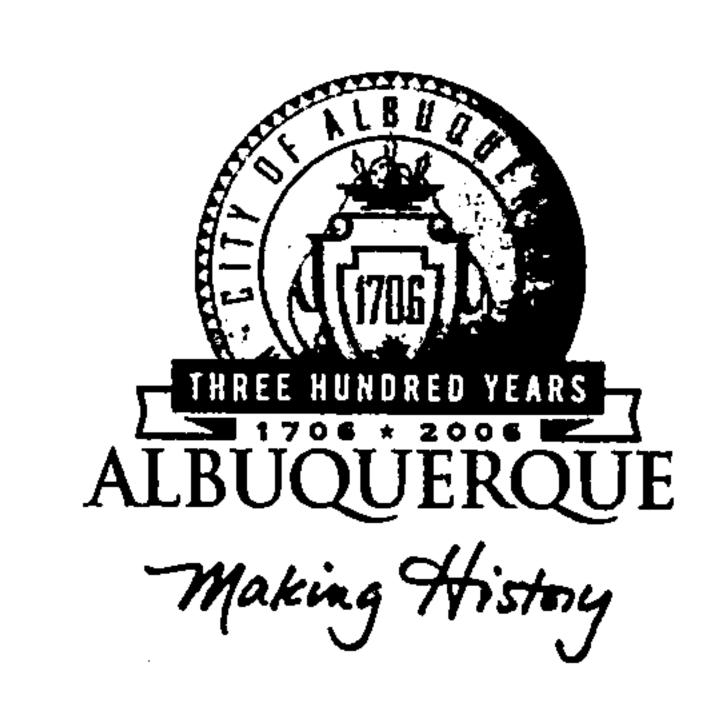
Project Description	on
Project File	c:\haestad\academic\fmw\1410.fm2
Worksheet	24" Storm Drain
Flow Element	Circular Channel
Method	Manning's Formula
Solve For	Discharge

Input Data		
Mannings Coefficient	0.009	
Channel Slope	0.006700 ft/ft	
Depth	2.00 ft	
Diameter	24.00	<u>in</u>

Results			
Discharge	26.75	cfs	
Flow Area	3.14	ft²	
Wetted Perimeter	6.28	ft	
Top Width	0.00	ft	
Critical Depth	1.80	ft	
Percent Full	100.00		
Critical Slope	0.005891 ft/ft		
Velocity	8.51	ft/s	
Velocity Head	1.13	ft	
Specific Energy	FULL	ft	
Froude Number	FULL		
Maximum Discharge	28.77	cfs	
Full Flow Capacity	26.75	cfs	
Full Flow Slope	0.0067	00 ft/ft	

Basin #1 = 17.1 cfs Basin #2 = 7.2 cfs 24.3 cfs \ 26.75 cfs

# CITY OF ALBUQUERQUE



January 26, 2005

Scott McGee, P.E. Isaacson & Arfman, P.A. 128 Monroe St. NE Albuquerque, NM 87108

Re: Women's Hospital of New Mexico Emergency Room Addition, 4701 Montgomery Blvd NE, Grading and Drainage Plan

Engineer's Stamp dated 1-18-05 (F17-D10)

Dear Mr. McGee,

Based upon the information provided in your submittal received 1-18-05, the above referenced plan is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

Albuquerque

P.O. Box 1293

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

New Mexico 87103

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

www.cabq.gov

Kristal D. Metro

Sincerely,

Engineering Associate, Planning.Dept. Development and Building Services

C: Charles Caruso, DMD Storm Drainage Design File

### DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJEC	TTTLE: Women's Hospital of NM - Parking Lot Remodel	ZONE MAP / DRG. FILE #: F-17 / D10
DRB #:_	EPC #:	WORK ORDER #:
	DESCRIPTION: A portion of Tract M-1, University Heights Ho	spital, City of Albuquerque
CHYA	DDRESS:	
ENGINI	EERING FIRM: Isaacson & Arfman, P.A.	CONTACT: Bryan Bobrick
PINOINI	ADDRESS: 128 Monroe St. NE	PHONE: 268-8828
	CITY, STATE: Albuquerque, NM	ZIP CODE: <u>87108</u>
	CITT, STATE. Albuqueique, inivi	Zir CODE <u>07100</u>
OWNER	₹ <u>:</u>	CONTACT:
<u> </u>	ADDRESS:	PHONE:
	CITY, STATE:	ZIP CODE:
ARCHI'	TECT: Gregory T. Hicks and Assoc.	CONTACT: Marie Holloway
	ADDRESS: 112 Second St. SW	PHONE: 243-7492
	CITY, STATE: Albuquerque, New Mexico	ZIP CODE: 87102
<b>SURVE</b>	<u>YOR:</u>	CONTACT:
	ADDRESS:	PHONE:
	CITY, STATE: Albuquerque, New Mexico	ZIP CODE:
<u></u>		
CONTR	RACTOR:	CONTACT:
	ADDRESS:	PHONE:
	CITY, STATE:	ZIP CODE:
CHECK	TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
	DRAINAGE REPORT	SIA / FINANCIAL GUARANTEE RELEASE
	DRAINAGE PLAN 1 <sup>ST</sup> REQUIRES TCL or equal	PRELIMINARY PLAT APPROVAL
<u>X</u>	DRAINAGE PLAN RESUBMITTAL	S. DEV. PLAN FOR SUB'D APPROVAL
	CONCEPTUAL GRADING & DRAINAGE PLAN	S. DEV. PLAN FOR BLDG. PERMIT APPR.
	GRADING PLAN	SECTOR PLAN APPROVAL
	EROSION CONTROL PLAN	FINAL PLAT APPROVAL
<del></del>	ENGINEER'S CERTIFICATION (HYDROLOGY)	FOUNDATION PERMIT APPROVAL
	CLOMR / LOMR	X BUILDING PERMIT APPROVAL
	TRAFFIC CIRCULATION LAYOUT (TCL)	CERTIFICATE OF OCCUPANCY (PERM)
	ENGINEER'S CERTIFICATION (TCL)	CERTIFICATE OF OCCUPANCY (TEMP)
	ENGINEER'S CERTIFICATION (DRB APPR, SITE PLAN)	GRADING PERMIT APPROVAL
	OTHER	PAVING PERMIT APPROVAL
		WORK ORDER APPROVAL OTHER JAN 7 0 0
WASA	PRE-DESIGN CONFERENCE ATTENDED:	——————————————————————————————————————
TT CLOP	YES	LHYDDA
<del></del>		L HYDROLOGY SECTION
<del></del>	NO CORY DROWDED	DECTION
	COPY PROVIDED	
DATE S	SUBMITTED: Monday, January 17, 2005	BY: Isaacson & Arfman, P.A.
		~~ ·ibaavbon & Allinan, I .A.

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

## ISAACSON & ARFMAN, P.A.

### Consulting Engineering Associates

Thomas O. Isaacson, PE & LS • Fred C. Arfman, PE Scott M. McGee, PE

January 17, 2005

Bradley L. Bingham, P.E. / Kristal Metro City of Albuquerque – Hydrology Section P.O. Box 1293 Albuquerque, New Mexico 87103

RE: WOMEN'S HOSPITAL OF NEW MEXICO PARKING LOT REMODEL PHASE 1 – (F17-D10)

Dear Brad and Kristal,

Per our phone conversation last week, this is a resubmittal of the Drainage and Grading Plan for the 'Women's Hospital of New Mexico Parking Lot Remodel' – Engineer's Stamp Dated 11-18-04 and approved 12-22-04.

The revisions to this plan are as follows - (see clouded area on attached revised plans):

1. The addition of approx. 4,500 sf Emergency Room building addition. This replaces treatment 'C' gravel landscaping and represents a minor change in Historic / Developed calculations. Proposed roof flow will be piped through the proposed adjacent concrete walk directly into the asphalt paved parking.

2. The Phase I pond expansion was designed to accommodate this phase as well as future phases of development with an increased volume of approx. 11,000 cf. The 2,200± cf increase in discharge volume of this phase during the 100-year 6-hour storm event will utilize only 20% of the overall increase.

HYDROLOGY SECTION

Please don't hesitate to call me at 266-3444 or Scott McGee with any questions or comments. Thanks very much for your expedition of this resubmittal.

Sincerely,

Bryan & Bobrick
Project Manager

# CITY OF ALBUQUERQUE



October 30, 2006

Jeffrey Todd Wooten, P.E. Wooten Engineering, LTD. 5017 Sanbusco Dr. NE Rio Rancho, NM 87144

Re: Women's Hospital of New Mexico, Engineer's Stamp dated 10-20-06?? 4701 Montgomery NE Building Addition (F17/D10)

Dear Mr. Walla,

Based on the information contained in your submittal received on October 18, 2006, there is one (1) additional item that must be addressed prior to Building Permit approval. The general note referencing the City of Rio Rancho Standard Specifications must be replaced with a reference to the City of Albuquerque Standard Specifications for Public Works Construction.

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

P.O. Box 1293

Sincerely,

Albuquerque

Jeremy Hoover, P.E.

New Mexico 87103 Senior Engineer

Hydrology Section

Development and Building Services

www.cabq.gov

cc:

file (F17/D10)

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/11/2002)

×
×
×
×

PROJECT TITLE: Women's Hospital of New Mexico Addin	ZONE MAP/DRG. FILE #F-17/DIO
DRB #:EPC#:	WORK ORDER#:/
LECAL DESCRIPTION: Treat M.4. University Heighte Hespital	
LEGAL DESCRIPTION: <u>Tract M-1, University Heights Hospital</u> CITY ADDRESS: 4701 Montgomery Blvd	· · · · · · · · · · · · · · · · · ·
CITTADDICES	· · · · · · · · · · · · · · · · · · ·
ENGINEERING FIRM: Wooten Engineering	CONTACT: Jeff Wooten
ADDRESS: 5017 Sanbusco Dr NE	PHONE: (505) 771-8038
CITY, STATE: Rio Rancho, NM	ZIP CODE: <u>87144</u>
	CONTACT:
OWNER: ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
	•
ARCHITECT: KGA Architects	CONTACT: Bill Santiana
ADDRESS: 214 Truman St	PHONE: 255-4975
CITY, STATE: <u>Albuquerque</u>	ZIP CODE: 87108
SURVEYOR:	CONTACT:
ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
CONTRACTOR:	CONTACT:PHONE:
ADDRESS:	ZIP CODE:
CITY, STATE:	ZIF CODL.
CHECK TYPE OF SUBMITTAL:  DRAINAGE REPORT  X DRAINAGE PLAN  CONCEPTUAL GRADING & DRAINAGE PLAN  GRADING PLAN  EROSION CONTROL PLAN  ENGINEER'S CERTIFICATION (HYDROLOGY)  CLOMR/LOMR  TRAFFIC CIRCULATION LAYOUT (TCL)  ENGINEERS CERTIFICATION (TCL)  ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)  OTHER	CHECK TYPE OF APPROVAL SOUGHT:  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:  YES X NO COPY PROVIDED  DATE SUBMITTED: October 18, 2006 BY:	D 区区IV区D OCT 18 2006 HYDROLOGY SECTION Jeff Wooten
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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.

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# CITY OF ALBUQUERQUE



November 8, 2006

Jeffrey Todd Wooten, P.E. Wooten Engineering, LTD. 5017 Sanbusco Dr. NE Rio Rancho, NM 87144

Re: Women's Hospital of New Mexico, Engineer's Stamp dated 11-1-06

4701 Montgomery NE Building Addition (F17/D10)

Dear Mr. Wooten,

Based on the information contained in the above referenced submittal, there is still one (1) additional item that must be addressed prior to Building Permit approval. The general note referencing the City of Rio Rancho Standard Specifications must be replaced with a reference to the City of Albuquerque Standard Specifications for Public Works Construction.

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

P.O. Box 1293

Sincerely,

Albuquerque

Jeremy Hoover, P.E.

New Mexico 87103 Senior Engineer

Hydrology Section

Development and Building Services

www.cabq.gov

cc:

file

(F17/D10)

### DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/11/2002)

PROJECT TITLE: Wo DRB #:	men's Hospital of New Mexico _ A	1 <u>alitim</u> ZO WC	NE MAP/DRG. FI DRK ORDER#:	LE#F-17/10
LEGAL DESCRIPTION: CITY ADDRESS:	Tract M-1, University Heights Hospital 4701 Montgomery Blvd			
ENGINEERING FIRM:ADDRESS:CITY, STATE:	Wooten Engineering 5017 Sanbusco Dr NE Rio Rancho, NM		CONTACT: PHONE: ZIP CODE:	Jeff Wooten (505) 771-8038 87144
OWNER: ADDRESS: CITY, STATE:			CONTACT: PHONE: ZIP CODE:	
ARCHITECT:ADDRESS:CITY, STATE:	KGA Architects 214 Truman St Albuquerque	· · · · · · · · · · · · · · · · · · ·	CONTACT: PHONE: ZIP CODE:	Bill Santiana 255-4975 87108
SURVEYOR:  ADDRESS:  CITY, STATE:			CONTACT: PHONE: ZIP CODE:	
CONTRACTOR:ADDRESS:CITY, STATE:			CONTACT: PHONE: ZIP CODE:	
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	NFERENCE ATTENDED:		D) © [] DOCT 3 HYDROLOG	I 2006  SECTION
DATE SUBMITTED:	October 31, 2006	3Y: <u>Jeff Woot</u>	en	

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