

June 16, 2010

Fred C. Arfman, P.E. Isaacson & Arfman, P.A. 128 Monroe St NE Albuquerque, NM 87108

Re: First Choice Community Healthcare, 1401 William St SE, Grading and Drainage Plan

Engineer's Stamp dated 6-1-10 (L14/D058)

Dear Mr. Arfman,

Thank you for submitting a plan for our files.

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

Sincerely,

Curtis A. Cherne, P.E.

Senior Engineer, Planning Dept.

Development and Building Services

..

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

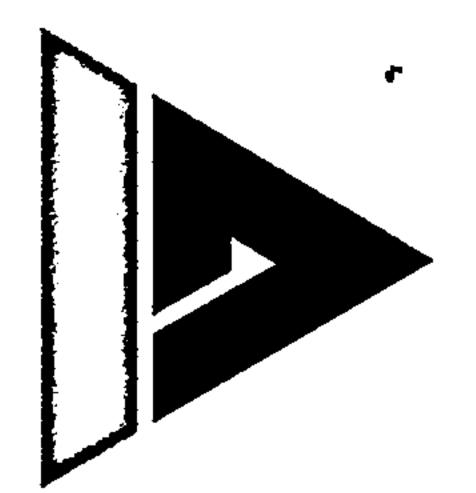
C: file

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

PROJECT TITLE: First Choice Community Healthcare Improvements	ZONE MAP/DRG. FILE # L-14 / D058
DRB#: EPC#:	WORK ORDER#:
LEGAL DESCRIPTION: A portion of Tract 397, MRGCD Property M	an No. 41 Barnalillo County NM
CITY ADDRESS: 1401 William St. SE, Albuquerque, NM 8710	
CITT ADDICESS. 1401 William St. SE, Albuqueique, IVIVI 671	<u>UZ</u>
ENGINEERING FIRM: ISAACSON & ARFMAN, PA	CONTACT:åsa Weber
ADDRESS: 128 MONROE NE	PHONE: 268-8828
CITY, STATE: <u>ALBUQUERQUE, NM</u>	ZIP CODE: 87108
OWNER:	CONTACT:
ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
ARCHITECT: Gregory T. Hicks & Associates	CONTACT: Russ Golitely
ADDRESS: 110 Second St. SW, Suite 204	PHONE: 243-7492
CITY, STATE: Albuq. NM	ZIP CODE: 87102
SURVEYOR: Forstbauer Surveying	CONTACT:
ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
CONTRACTOR:	CONTACT:
ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
TYPE OF SUBMITTAL:	TYPE OF APPROVAL SOUGHT:
	SIA/FINANCIAL GUARANTEE RELEASE
	PRELIMINARY PLAT APPROVAL
	S. DEV. PLAN FOR SUB'D APPROVAL
	S. DEV. FOR BLDG. PERMIT APPROVAL
	SECTOR PLAN APPROVAL
	FINAL PLAT APPROVAL
	FOUNDATION PERMIT APPROVAL
	BUILDING PERMIT APPROVAL
	CERTIFICATE OF OCCUPANCY (PERM)
ENGINEER/ARCHITECT CERT (TCL)	CERTIFICATE OF OCCUPANCY (TEMP)
	GRADING PERMIT APPROVAL
· · · · · · · · · · · · · · · · · · ·	PAVING PERMIT APPROVIE
	WORK ORDER APPROVAL
	OTHER (S.O.19 Approval)
777 A A DDD DDGGGGGGGGGGGGGGGGGGGGGGGGGG	JUN 0 3 2010
WAS A PRE-DESIGN CONFERENCE ATTENDED:	
YES	HYDROLOGY
NO	SECTION
COPY PROVIDED	· · · · · · · · · · · · · · · · · · ·
SUBMITTED BY: Fred C. Arfman, PE	DATE: 6/2/2010

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 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.



Isaacson & Arfman, P.A.

Consulting Engineering Associates

Thomas O. Isaacson, PE & LS * Fred C. Arfman, PE * Åsa Nilsson-Weber, PE

February 9, 2010

Mr. Curtis A. Cherne, PE Senior Engineer, Planning Dept. COA Hydrology Dept.

RE: First Choice Community Healthcare Grading and Drainage Plan (L14/D058)

Dear Mr. Cherne:

Included with this letter is one copy of the revised Grading and Drainage Plan for the above referenced property. Due to significant cost cutting to bring the project within budget, the majority of site plan improvements have been eliminated as follows:

- Existing public walks, drivepads, discharge patterns, etc. will not be altered.
- Existing on-site asphalt pavement will remain with a 1.5" overlay and re-striping provided.
- A portion of concrete walk will be constructed adjacent to the building to accommodate the modified roof discharge locations and handicap accessibility.
- The existing curb along the west side of the west parking area will be removed and replaced due to poor condition.

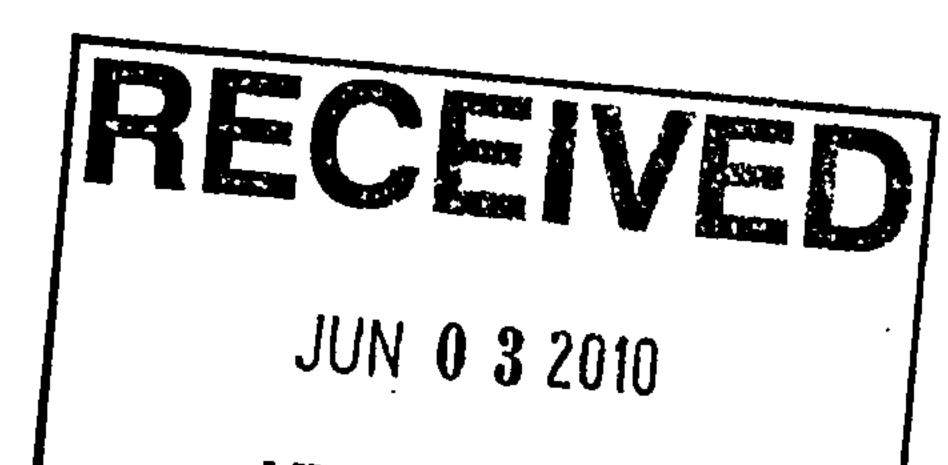
We are providing this plan for your files to override the previous Drainage/Grading and SO19 submittals. Please don't hesitate to call me or Bryan Bobrick with any questions or comments.

Sincerely,

ISAACSON & ARFMAN P.A.

Fred C. Arfman, PE

Attachments



JANUARY 13, 2010

DRAINAGE REPORT

FOR

SOUTH BROADWAY HEALTH CENTER

SITE IMPROVEMENTS

BY

ISAACSON & ARFMAN, P.A.

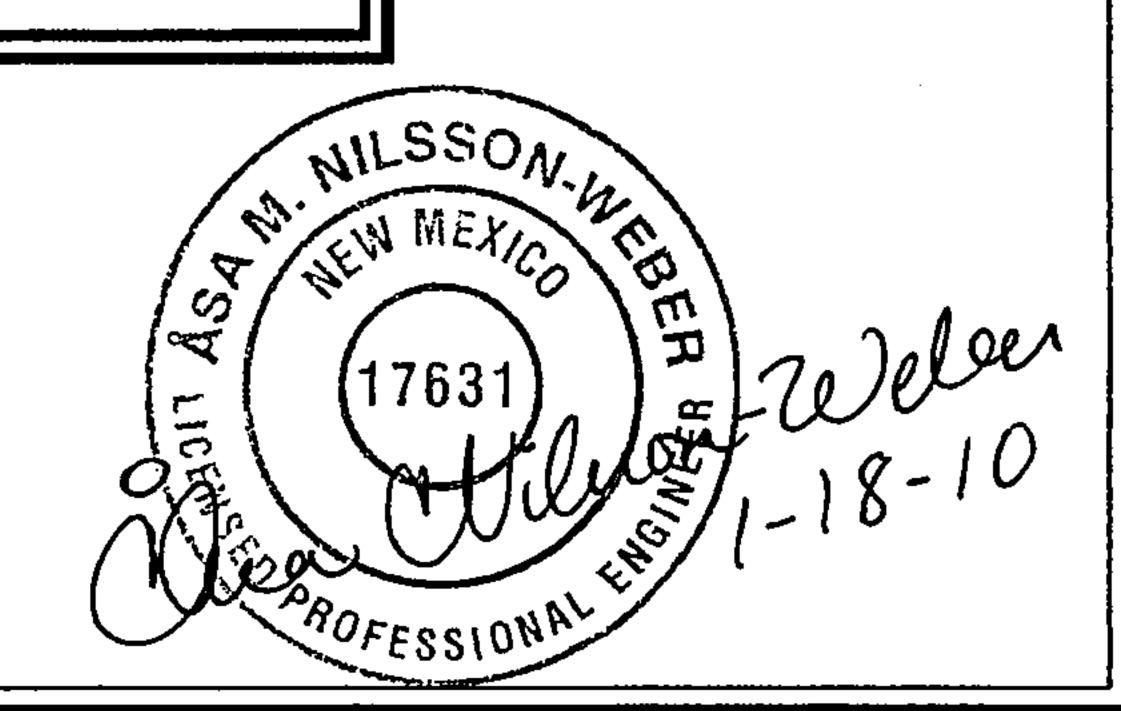
Consulting Engineering Associates

128 Monroe Street N.E.

Albuquerque, New Mexico 87108

Ph. 505-268-8828 Fax. 505-268-2632

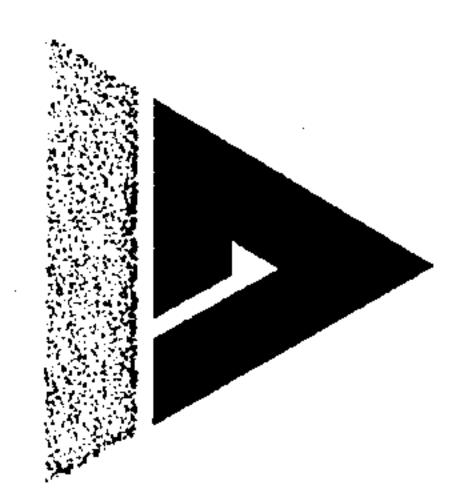
I&A PROJECT 1752



SUPPLEMENTAL INFORMATION

CONTENTS

Drainage Analysis	1
Site Key	2
Historic / Developed Flow Calculations	3
Channel Report	4
FIRM Floodplain Map Exhibit	5



Isaacson & Arfman, P.A.

Consulting Engineering Associates

Thomas O. Isaacson, PE & LS * Fred C. Arfman, PE * Åsa Nilsson-Weber, PE

DRAINAGE ANALYSIS FOR: First Choice Community Healthcare South Broadway Health Center

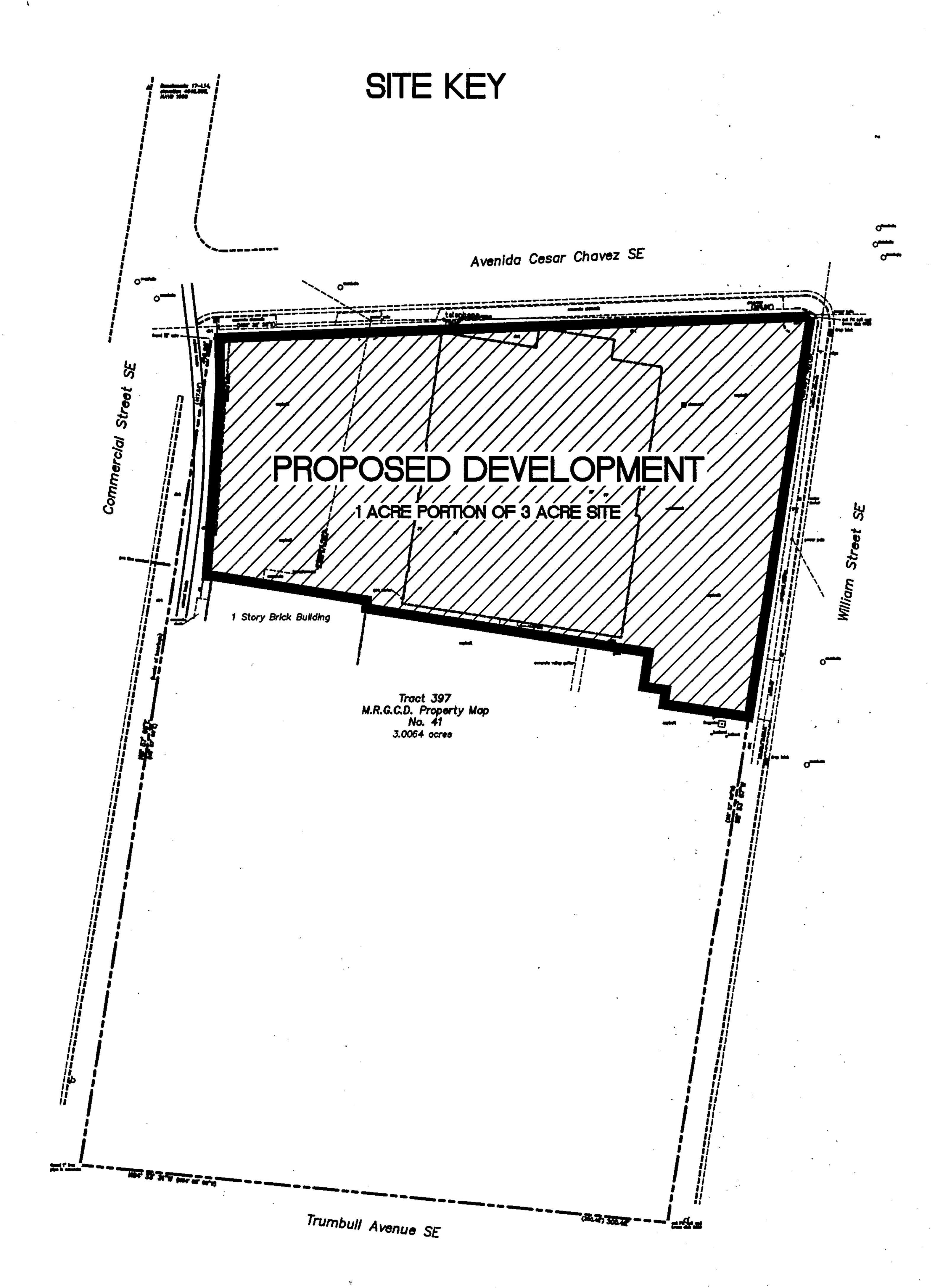
1401 William St. SE Albuquerque, NM 87102

The proposed development occurs on approximately 1 acre of a 3 acre property (see SITE KEY exhibit). Calculations provided indicate the total discharge from the proposed area (100-year, 6-hour storm event) will be 4.6 cfs. This discharge will be split into two sub-basins with approximately 2.3 cfs discharging north to Avenida Cesar Chavez SE via the access drivepads and approximately 2.3 cfs discharging to Williams St. SE via new covered sidewalk culverts.

The removal of existing impervious pavement to be replaced by landscaping will provide a minimal decrease in historic discharge.

Roof discharge will be reworked to discharge all flow to the east and west sides of the building.

The proposed covered sidewalk culverts (12" bottom width) have a max. capacity of 3.2 cfs at a depth of 6" (see CHANNEL REPORT exhibit). Proposed discharge to each is 1.2 cfs max.



Band on Design		_	17 17 17.1	. A 11		a Caatian 77 7 INDM Mai') doted	1 1007			
Dascu on Drain	nage De	esign C	riteria for City o	of Albu	querqu	e Section 22.2, DPM, Vol 2		Jan., 1993			
						ON-SITE	•			· · · · · · · · · · · · · · · · · · ·	
AREA OF SITI	E:					44216	SF	=	1.0		
						100-year, 6-hour					
HISTORIC FI	LOWS	:				DEVELOPED FLOWS:	•			EXCESS PRECIP:	
			Treatment SF	· 	%			Treatment SF	%	Precip. Zone	2
Area	a A	=	0		0%	Area A		0	0%	$E_A = 0.53$	
Area	аВ	=	0		0%	Area B	=	0	0%	$E_{\rm B}=0.78$	
Area	a C	=	1768.64		4%	Area C		4422	10%	$E_{\rm C} = 1.13$	
Area	a D	=	42447.36	5	96%	Area D	=	39794	90%	$E_{D} = 2.12$	
Total A	rea	=	44216		1000/			44016			
On-Site Weight			44216 cipitation (100-	Year, 6	100% 5-Hour		=	44216	100%		•
On-Site Weight			•	Year, 6			=	44216	100%		
On-Site Weight			•	_				44216	100%		
On-Site Weight			cipitation (100-	_		Storm)	Ξ <u>η</u> Α <u>η</u>	44216	100%		
			cipitation (100-	_	5-Hour	Storm) $E_{A}A_{A} + E_{B}A_{B} + E_{C}A_{C} + E_{B}A_{B}$	Ξ <u>η</u> Α <u>η</u>		.02 in.		
Historic E	ted Exc	ess Pre	cipitation (100- Weighted E =	=	5-Hour	Storm) $\frac{E_A A_A + E_B A_B + E_C A_C + E_C}{A_A + A_B + A_C + A_D}$	Ξ <u>η</u> Α <u>η</u>				
Historic E On-Site Volume	ted Exc	ess Pre	cipitation (100- Weighted E =	=	n.	Storm) $E_A A_A + E_B A_B + E_C A_C + E_A A_A + A_B + A_C + A_D$ $Developed E$ $E*A / 12$	Ξ <u>η</u> Α <u>η</u>				
Historic E On-Site Volume	ted Exc	ess Pre	veipitation (100- Weighted E =	=	n.	Storm) $ \frac{E_A A_A + E_B A_B + E_C A_C + E_C}{A_A + A_B + A_C + A_D} $ Developed E	Ξ <u>η</u> Α <u>η</u>	2.			
Historic E On-Site Volume Historic V ₃₆₀	ted Exc	ess Pre	veighted E =	2.08 i 7666	n. CF	Storm) $E_{A}A_{A} + E_{B}A_{B} + E_{C}A_{C} + E_{C}A_{C$	<u>EnAn</u>	2.	.02 in.		
Historic E On-Site Volume Historic V ₃₆₀	ted Exc	ess Pre	veighted E =	2.08 i 7666	n. CF	Storm) $E_A A_A + E_B A_B + E_C A_C + E_A A_A + A_B + A_C + A_D$ $Developed E$ $E*A / 12$	<u>EnAn</u>	2.	.02 in.		
Historic E On-Site Volume Historic V ₃₆₀ On-Site Peak Description	ted Exc	ess Pre	veighted E =	2.08 i 7666	n. CF	Storm) $E_{A}A_{A} + E_{B}A_{B} + E_{C}A_{C} + E_{C}A_{C$	<u>EnAn</u>	2.	.02 in.		
Historic E On-Site Volume Historic V ₃₆₀ On-Site Peak D For Precipitation	ted Exc	ess Pre	veighted E =	2.08 i 7666	n. CF	Storm) $E_{A}A_{A} + E_{B}A_{B} + E_{C}A_{C} + E_{C}A_{C$	<u>EnAn</u>	2.	.02 in.		
Historic E On-Site Volume Historic V ₃₆₀ On-Site Peak D For Precipitation	ted Exc	ess Pre	cipitation (100-Weighted E = V360 = Qp = QpAAA+	2.08 i 7666	n. CF	Storm) $E_{A}A_{A} + E_{B}A_{B} + E_{C}A_{C} + E_{C}A_{C$	EnAn =	74	.02 in.		

Channel Report

Compute by:

No. Increments

Hydraflow Express Extension for AutoCAD® Civil 3D® 2009 by Autodesk, Inc.

Q vs Depth

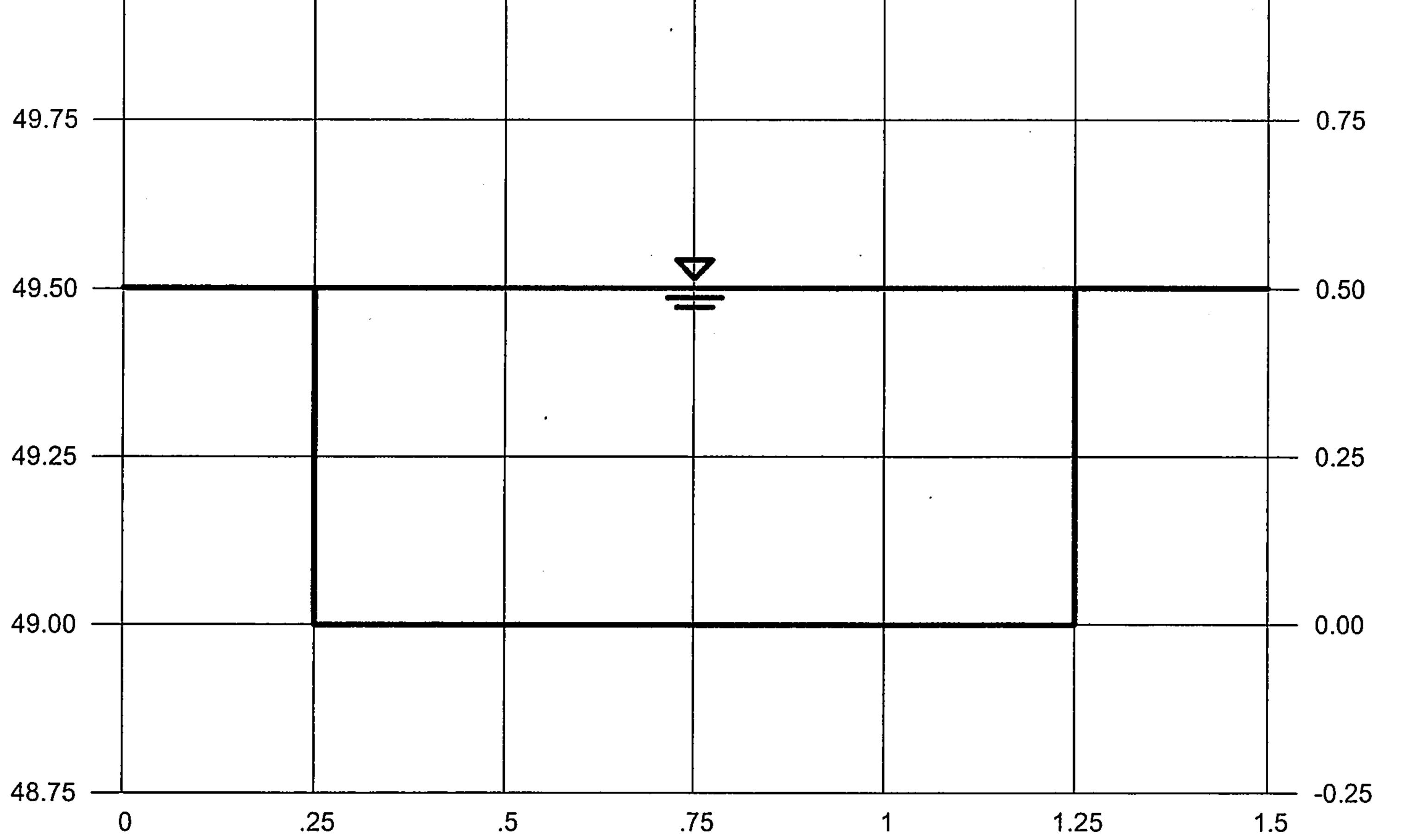
= 10

Monday, Jan 18 2010

12" WIDE X 6" DEEP COVERED SIDEWALK CULVERT

Rectangular Highlighted Bottom Width (ft) Depth (ft) = 1.00 = 0.50Total Depth (ft) = 0.50Q (cfs) = 3.206Area (sqft) = 0.50Velocity (ft/s) Invert Elev (ft) = 49.00 = 6.41Wetted Perim (ft) Slope (%) = 2.00= 2.00 = 0.013N-Value Crit Depth, Yc (ft) = 0.50Top Width (ft) = 1.00Calculations EGL (ft) = 1.14

Elev (ft) Section Depth (ft) 50.00 ______ 1.00



Reach (ft)





February 12, 2010

Asa M. Nilsson-Weber, P.E. Isaacson & Arfman, P.A. 128 Monroe St NE Albuquerque, NM 87108

Re: First Choice Community Healthcare, 1401 William St SE, Grading and Drainage Plan

Engineer's Stamp dated 2-10-10 (L14/D058)

Dear Ms. Nilsson-Weber,

Based upon the information provided in your submittal received 2-10-10, the above referenced plan cannot be approved for Building Permit until the following comments are addressed:

PO Box 1293

• The flow-line at the north east corner of the site (drive entrance) should remain unchanged or changed to drain to the drop inlet on William St.

Albuquerque

• Per our conversation, 2-12-09, the wet utility improvements will be built under a Mini Work Order. In that case, the sidewalk culverts can be constructed with an SO-19 Permit. If the project goes to Work Order, then the sidewalk culverts should be built per the Work Order.

NM 87103

Thank you for submitting two copies of the plan. We give one to the inspector.

www.cabq.gov

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

Sincerely,

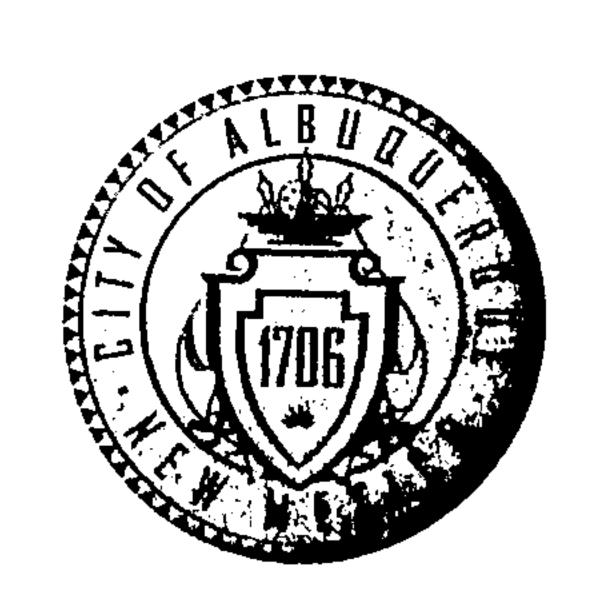
Curtis A. Cherne, P.E.

Center a chem

Senior Engineer, Planning Dept.

Development and Building Services

C· file



February 3, 2010

Asa M. Nilsson-Weber, P.E. Isaacson & Arfman, P.A. 128 Monroe St NE Albuquerque, NM 87108

Re: First Choice Community Healthcare, 1401 William St SE, Grading and Drainage Plan

Engineer's Stamp dated 1-18-10 (L14/D058)

Dear Ms. Nilsson-Weber,

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

Based upon the information provided in your submittal dated 1-19-10, the above referenced plan cannot be approved for Building Permit or SO-19 Permit until the following comments are addressed:

• Hydrology requests the southern sidewalk culvert be moved north of the highpoint (48.37) in William St. so that the runoff will more readily run towards the inlet to the north.

• Keyed Note 15 specifies to "See detail this sheet", but a detail is not provided.

 Work in the ROW in addition to what is proposed is not required, however, ponding in the gutter on Avenida Cesar Chavez may be eliminated by replacing the curb and gutter at the northeast corner of the site.

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

Sincerely, Cut a chem

Curtis A. Cherne, P.E.

Senior Engineer, Planning Dept.

Development and Building Services

C: file



February 22, 2010

Asa M. Nilsson-Weber, P.E. Isaacson & Arfman, P.A. 128 Monroe St NE Albuquerque, NM 87108

Re: First Choice Community Healthcare, 1401 William St SE, Grading and Drainage Plan

Engineer's Stamp dated 2-15-10 (L14/D058)

Dear Ms. Nilsson-Weber,

Based upon the information provided in your submittal received 2-16-10, the above referenced plan is approved for Building Permit and SO 19 Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

PO Box 1293

A separate permit (SO 19) is required for construction within City ROW. A copy of this approval letter must be on hand when applying for the excavation/barricading permit. If there is a Work Order associated with this project, this work is to be included in the Work Order.

Albuquerque

To obtain a temporary or permanent CO, Engineer Certification of the Grading Plan per the DPM is required and the sidewalk culverts in the City ROW must be inspected and accepted. Please contact Duane Schmitz, 235-8016, to schedule an inspection.

NM 87103

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

www.cabq.gov

Sincerely,

Curtis A. Cherne, P.E.

Senior Engineer, Planning Dept.

Development and Building Services

C: file

Antoinette Baldonado, Excavation and Barricading Duane Schmitz, Street/Storm Drain Maintenance

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

PROJECT TITLE: First Choice Community Healthcare Improvements	ZONE MAP/DRG. FILE # L-14 / D058
DRB#: EPC#:	WORK ORDER#:
LEGAL DESCRIPTION: A portion of Tract 397, MRGCD Property M	
CITY ADDRESS: 1401 William St. SE, Albuquerque, NM 8710	UZ
ENGINEERING FIRM: ISAACSON & ARFMAN, PA	CONTACT: Åsa Weber
ADDRESS: 128 MONROE NE	PHONE: 268-8828
CITY, STATE: ALBUQUERQUE, NM	ZIP CODE: 87108
	•
OWNER:	CONTACT:
ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
ADCINTECT. Crocory T. Highe & Accordance	
ARCHITECT: Gregory T. Hicks & Associates	CONTACT: Russ Golitely ,
ADDRESS: 110 Second St. SW, Suite 204	PHONE: 243-7492
CITY, STATE: <u>Albuq. NM</u>	ZIP CODE: <u>87102</u>
SURVEYOR: Forstbauer Surveying	CONTACT:
ADDRESS:	
CITY, STATE:	ZIP CODE:
CONTRACTOR:	CONTACT:
ADDRESS:	PHONE:
CITY, STATE:	ZIP CODE:
TYPE OF SUBMITTAL:	TYPE OF APPROVAL SOUGHT:
	SIA/FINANCIAL GUARANTEE RELEASE
	PRELIMINARY PLAT APPROVAL
	S. DEV. PLAN FOR SUB'D APPROVAL
	S. DEV. FOR BLDG. PERMIT APPROVAL
	SECTOR PLAN APPROVAL
	FINAL PLAT APPROVAL
	FOUNDATION PERMIT APPROVAL
	BUILDING PERMIT APPROVAL
	CERTIFICATE OF OCCUPANCY (PERM)
	CERTIFICATE OF OCCUPANCY (TEMP)
	GRADING PERMIT APPROVAL
	PAVING PERMIT APPROVAL
	WORK ORDER APPROVAL
	OTHER (S.O.19 Approval)
	FEB 16 20:3
WAS A PRE-DESIGN CONFERENCE ATTENDED:	TED 1. 10 ""
YES	
NO	HYDROLOGY
COPY PROVIDED	HYDROLOGY SECTION
SUBMITTED BY: Åsa Nilsson-Weber, PE	DATE: 2/16/2010
Isaacson & Arfman, P.A.	171111. <u>211012010</u>

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.