CITY OF ALBUQUERQUE



February 23, 2015

Matt Satches, E.I. Bohannan Huston, Inc. 7600 Jefferson St NE Albuquerque, NM 87109

Re: Smiles for Kids Dental Office Conceptual DMP and Conceptual Grading Plan Engineer's Stamp Date –no stamp- (C12D054)

Dear Mr. Satches,

Based upon the information provided in your submittal received 2-17-15, the above referenced plans are approved for Site Plan for Building Permit action by the DRB with the condition that as access easement can be obtained across lot 10A1, which should be shown.

When submitting for Building Permit:

- 1. Provide the direction of roof flows.
 - 2. Provide calculations for the channel and the sidewalk culvert.
 - 3. Demonstrate, with a detail if necessary, how runoff from the landscape area on the east part of the site will enter the channel.
 - 4. Explain why one building is hatched and the other is not.
 - 5. Provided build notes for the curb cuts in the parking island that will receive the first flush.
 - 6. Show curb, permanent or temporary, to be built on the access drive to Loma Fuente, at least on the downhill side.

If you have any questions, you can contact me at 924-3986.

www.cabq.gov

New Mexico 87103

PO Box 1293

Albuquerque

Sincerely to crl.

Curtis Cherne, P.E. Principal Engineer, Hydrology Planning Dept.

C: e-mail



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title:	Building Permit #:	City Drainage #:
DRB#: EPC#:		Work Order#:
Legal Description:		
City Address:		
Engineering Firm:		Contact:
Address:		
Phone#: Fax#:		E-mail:
Owner:		Contact:
Address:		
Phone#: Fax#:		E-mail:
Architect:		Contact:
Address:		
Phone#: Fax#:		E-mail:
Surveyor:		Contact:
Address:		
Phone#: Fax#:		E-mail:
Contractor:		Contact:
Address:		
Phone#: Fax#:		E-mail:
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROV	AL/ACCEPTANCE SOUGHT:
DRAINAGE REPORT	SIA/FINANCIAL GUARAN	TEE RELEASE
DRAINAGE PLAN 1st SUBMITTAL	PRELIMINARY PLAT APPI	ROVAL
DRAINAGE PLAN RESUBMITTAL	S. DEV. PLAN FOR SUB'D	APPROVAL
CONCEPTUAL G & D PLAN	S. DEV. FOR BLDG. PERMI	IT APPROVAL
GRADING PLAN	SECTOR PLAN APPROVAL	_
EROSION & SEDIMENT CONTROL PLAN (ESC)	FINAL PLAT APPROVAL	
ENGINEER'S CERT (HYDROLOGY)	CERTIFICATE OF OCCUPA	ANCY (PERM)
CLOMR/LOMR	CERTIFICATE OF OCCUPA	ANCY (TCL TEMP)
TRAFFIC CIRCULATION LAYOUT (TCL)	FOUNDATION PERMIT AP	PROVAL
ENGINEER'S CERT (TCL)	BUILDING PERMIT APPRO	DVAL
ENGINEER'S CERT (DRB SITE PLAN)	GRADING PERMIT APPRO	VAL SO-19 APPROVAL
ENGINEER'S CERT (ESC)	PAVING PERMIT APPROV	AL ESC PERMIT APPROVAL
SO-19	WORK ORDER APPROVAL	ESC CERT. ACCEPTANCE
OTHER (SPECIFY)	GRADING CERTIFICATION	N OTHER (SPECIFY)
WAS A PRE-DESIGN CONFERENCE ATTENDED:	Yes No Co	ppy Provided
DATE SUBMITTED:	By:	

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

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

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

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

4. Erosion and Sediment Control Plan: Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

Bohannan 🛦 Huston

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

www.bhinc.com

voice: 505.823.1000 facsimile: 505.798.7988 toll free: 800.877.5332

February 17, 2015

Mr. Curtis Cherne, P.E. Principal Engineer, Hydrology Planning Department City of Albuquerque 600 2nd St NW Albuquerque, NM 87102

Re: Smiles for Kids Dental Office, Hydrology Re-Submittal

Dear Mr. Cherne:

Enclosed for your review is a copy of the revised grading plan and drainage management plan. The revisions are based on comments that you provided in your letter dated February 6, 2015. Below is a brief description of how the comments were addressed:

- 1. The first flush pond was relocated to the parking lot as discussed. Due to site constraints such as building and parking setbacks, site steepness, and an existing utility easement, the pond volume provided does not entirely satisfy the first flush requirements.
- 2. The retaining wall running adjacent to the ribbon channel along the North property line, doesn't allow enough space for an effective first flush pond.
- 3. The first flush volume calculations are provided in the drainage narrative on the updated DMP.

With this submittal we are requesting Hydrology Site Development Plan for Building Permit Approval. If you have any questions or require further information, please feel free to contact me.

Sincerely,

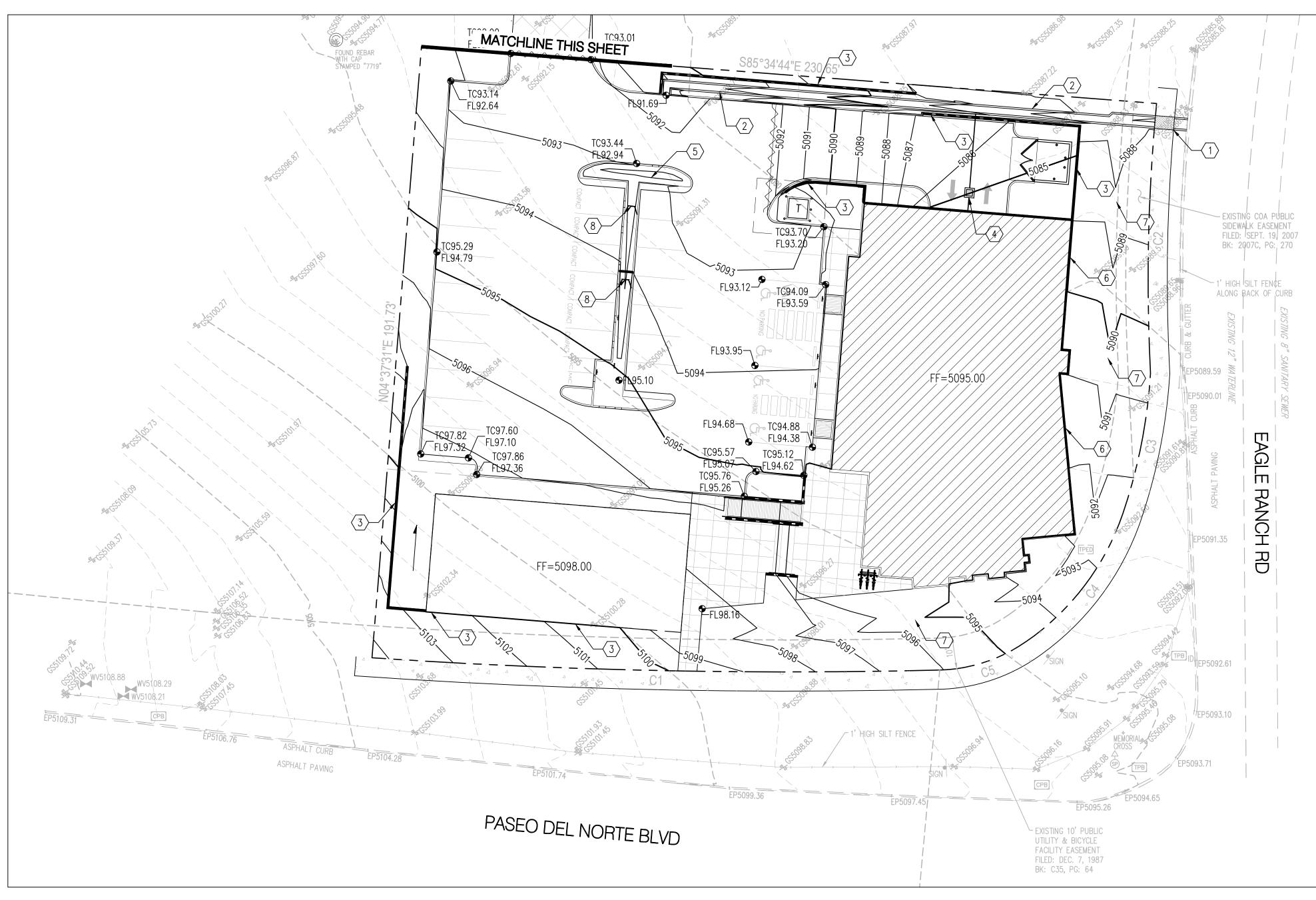
1 ha

Matthew Satches, E.I. Engineer Intern Community Development & Planning

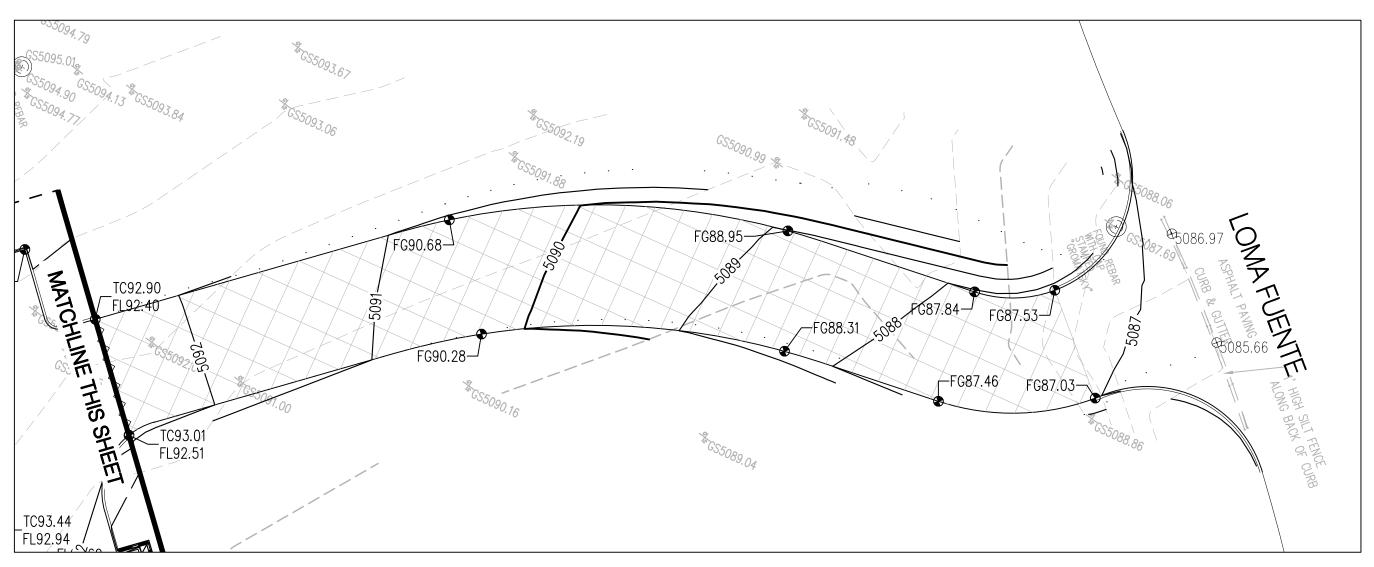
MHS/jcm Enclosures

Engineering **A**

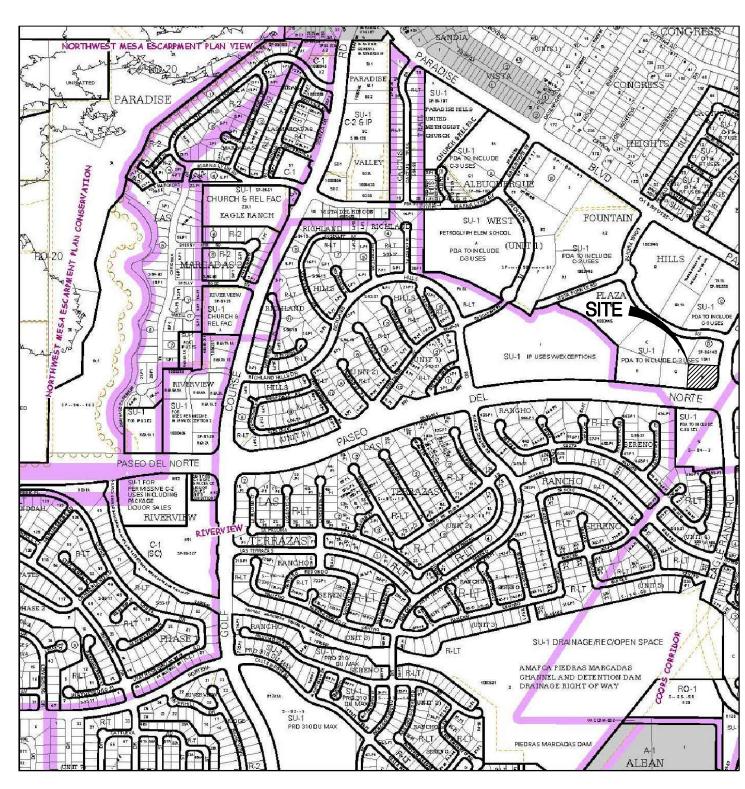
- Spatial Data 🔺
- Advanced Technologies **A**



SITE CONCEPTUAL GRADING PLAN



ACCESS ROAD CONCEPTUAL GRADING PLAN



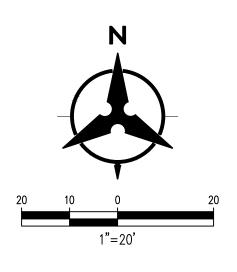
\rightarrow GRADING KEYED NOTES

- 1. INSTALL SIDEWALK CULVERT
- 2. INSTALL RIBBON CHANNEL
- 3. INSTALL RETAINING WALL
- 4. INSTALL SUMP PUMP 5. POND FOR FIRST FLUSH
- 6. BUILDING STEM WALL
- 8. CHECK DAM

VICINITY MAP: C-12

SWALE TO KEEP RUNOFF AWAY FROM BUILDING AND RETAINING WALLS

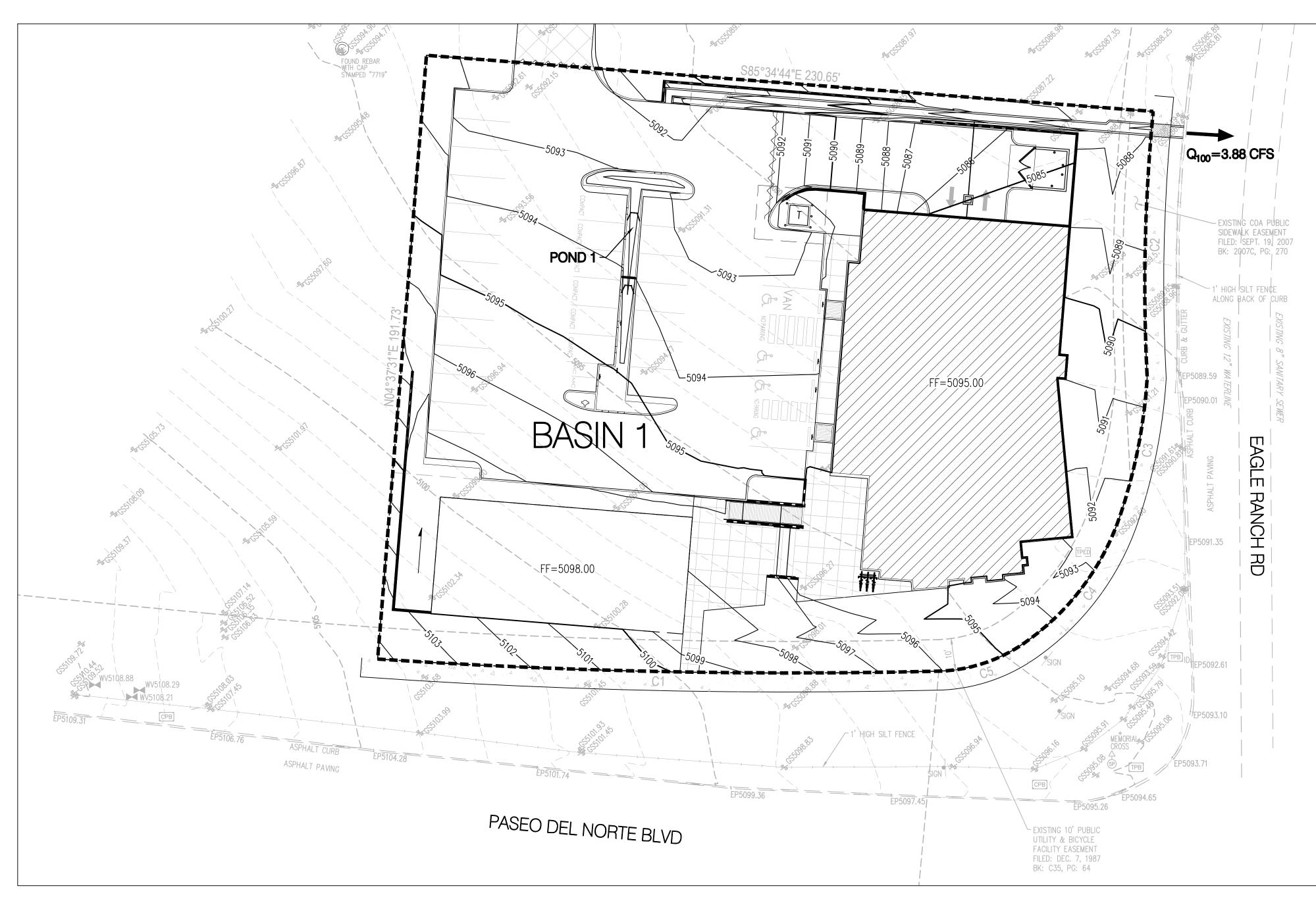
LEGEND			
	PROPERTY LINE		
5301	EXISTING CONTOURS		
● ^{65.23}	PROPOSED SPOT ELEVATION TC=TOP OF CURB, FL=FLOW LINE TW=TOP OF WALL, BW=BOTTOM OF WALL EX=EXISTING, TG=TOP OF GRADE		
S=2.0%	PROPOSED DIRECTION OF FLOW		
~~~~~~	WATER BLOCK		
	PROPOSED RETAINING WALL		
	PROPOSED INDEX CONTOURS		
	PROPOSED INTER CONTOURS		
	PROPOSED CURB & GUTTER		
	EASEMENT		
SD	PROPOSED STORM DRAIN LINE		proiact title



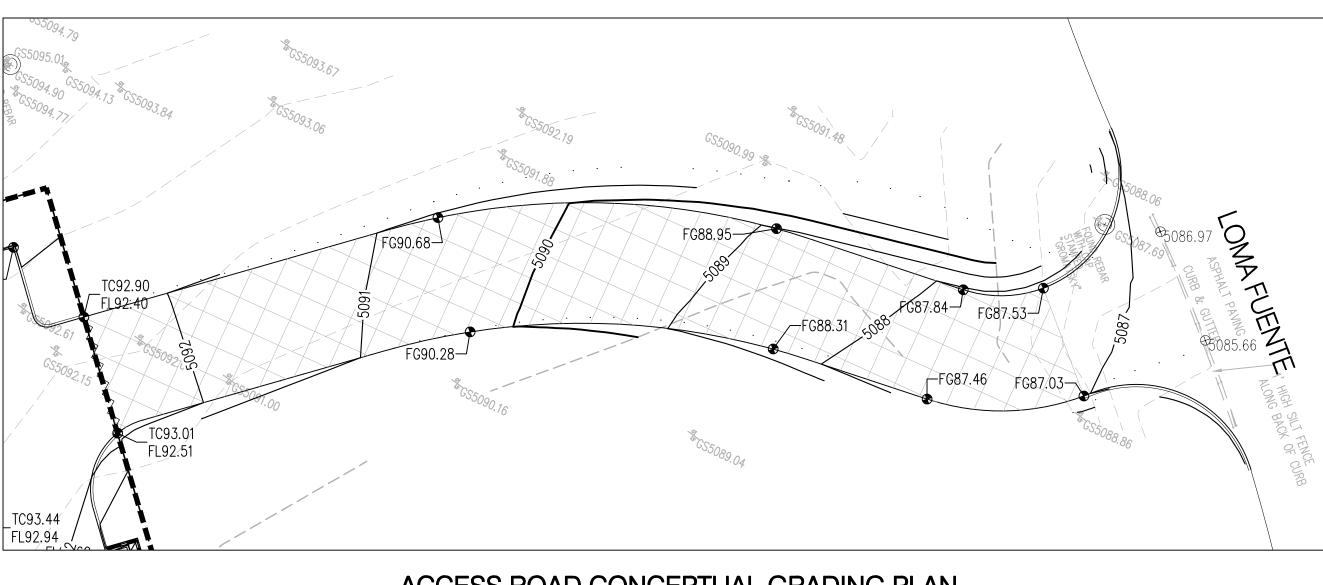


 $\operatorname{Res}(\mathcal{A}) = \operatorname{Res}(\mathcal{A})$ Mullen Heller Architecture P.C. 924 Park Avenue SW Suite B Albuquerque 87102 505 268 4144[p] 505 268 4244 [f] for Kids Dental Office Ranch Road, NW. New Mexico 87114 <u>Р</u>  $\bigcirc$ din Gra σ ptu Smiles 1 9201 Eagle Albuquerque sheet-

C100

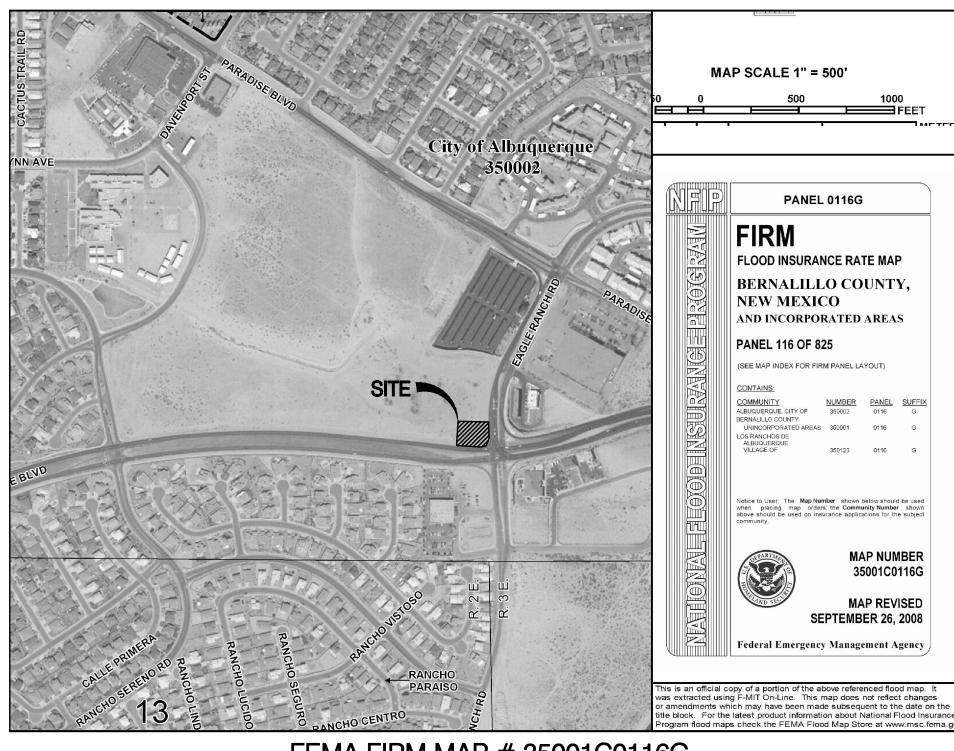


## SITE CONCEPTUAL DRAINAGE MANAGEMENT PLAN



## ACCESS ROAD CONCEPTUAL GRADING PLAN

LEC	THE ULTIMATE OUTFALL LOCAT THE FIRST FLUSH. A PORTION SANITARY SEWER.	
	PROPERTY LINE EXISTING CONTOURS	OFFSITE PRIVATE ACCESS ROA <u>FIRST FLUSH CALCULATIONS:</u> IMPERVIOUS AREA: 28,868 SF
● ^{65.23}	PROPOSED SPOT ELEVATION TC=TOP OF CURB, FL=FLOW LINE TW=TOP OF WALL, BW=BOTTOM OF WALL EX=EXISTING, TG=TOP OF GRADE	VOLUME REQUIRED: 1,058 CF VOLUME PROVIDED: 315 CF THERE WERE MANY CONTRIBUT APPROXIMATELY 10.00%. STEEF
<u></u>	PROPOSED DIRECTION OF FLOW WATER BLOCK	VOLUME INTERCEPTED. IN ADD EFFECTIVE AT TREATING THE F COMMUNICATION AND GAS LINE
5305	PROPOSED RETAINING WALL PROPOSED INDEX CONTOURS PROPOSED INTER CONTOURS	<u>Conclusion:</u> The peak discharge from t Albuquerque hydrology rei
	PROPOSED CURB & GUTTER EASEMENT PROPOSED STORM DRAIN LINE	



	Smiles for Kids Dental Office										
	Proposed Ultimate Development Conditions Basin Data Table										
This table is based on the DPM Section 22.2, Zone: 1											
Basin	Area	Area	Land Treatment Percentages			<b>Q</b> (100yr)	<b>Q</b> (100yr-6hr)	WT E	<b>V</b> (100yr-6hr)	<b>V</b> (100yr-10day)	
ID	(SQ. FT)	(AC.)	A	В	C	D	(cfs/ac.)	(CFS)	(inches)	(CF)	CF
Prop	Proposed										
1	42493	0.98	0.0%	0.0%	26.0%	74.0%	3.98	3.88	1.72	6074	9926
TOTAL	42493	**0.98						3.88			***9926

INTRODUCTION:

#### EXISTING CONDITIONS:

THE 0.98 ACRE SITE IS CURRENTLY UNDEVELOPED. THE SITE SLOPES TO THE NORTH / NORTHEAST WHERE THE RUNOFF OPENLY DISCHARGES INTO EAGLE RANCH RD. BASED ON THE DRAINAGE STUDY FOR FOUNTAIN HILLS (CITY OF ALBUQUERQUE DRAINAGE FILE #C12/D3B), THE ALLOWABLE PEAK DISCHARGE FROM THE SITE IS

APPROXIMATELY 4.08 CFS.

METHODOLOGY:

THE HYDROLOGIC ANALYSIS PROVIDED WITH THIS DRAINAGE MANAGEMENT PLAN HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 22.2 OF THE DPM. THE SITE IS LOCATED WEST OF THE RIO GRANDE WITHIN PRECIPITATION ZONE 1. LAND TREATMENT PERCENTAGES WERE CALCULATED BASED ON THE ACTUAL CONDITIONS IN EACH ONSITE BASIN AND ARE SUMMARIZED IN THE "PROPOSED BASIN DATA TABLE" (THIS SHEET).

#### PROPOSED CONDITIONS:

THIS DRAINAGE MANAGEMENT PLAN WAS DEVELOPED IN ACCORDANCE WITH A FULLY DEVELOPED SITE. IT WAS DETERMINED THAT THE MAXIMUM ALLOWABLE PEAK DISCHARGE FROM THE SITE IS APPROXIMATELY 4.08 CFS (AS MENTIONED ABOVE). THIS IS A SMALL SITE AND ACTS AS ONE DRAINAGE BASIN (BASIN 1).

ULTIMATE OUTFALL LOCATION IS EAGLE RANCH ROAD THROUGH MEANS OF RIBBON CHANNEL AND A SMALL POND (POND 1) IN THE PARKING LOT USED TO MITIGATE FIRST FLUSH. A PORTION OF THE SITE DRAINS INTO THE PARKING GARAGE, THAT FLOW IS THEN DIRECTED INTO A SUMP PUMP WHERE IT DISCHARGES INTO ITARY SEWER.

ERVIOUS AREA: 28,868 SF JME REQUIRED: 1,058 CF UME PROVIDED: 315 CF

E WERE MANY CONTRIBUTING FACTORS THAT LIMITED THE VOLUME THAT COULD BE INCORPORATED INTO THE SITE DESIGN. THE SITE HAS AN EXISTING SLOPE OF ROXIMATELY 10.00%. STEEP SLOPE SITES MAKE IT CHALLENGING TO INCORPORATE SHALLOW RETENTION AREAS IN THE LANDSCAPE DESIGN AND REDUCE THE ACTUAL JME INTERCEPTED. IN ADDITION, BUILDING AND SITE PARKING SET BACKS LIMITED THE AREA AVAILABLE TO PROVIDE RETENTION PONDS WHERE THEY WOULD BE MOST CTIVE AT TREATING THE FIRST FLUSH. ANOTHER SITE CONSTRAINT IS AN EXISTING UTILITY EASEMENT (ALONG EAGLE RANCH AND PASEO DEL NORTE) CONTAINING MUNICATION AND GAS LINES. GIVEN THE SITE CONSTRAINTS, THIS DESIGN MAXIMIZED THE FIRST FLUSH RETAINED WITHIN THE PARKING LOT PONDING AREA. <u>CLUSION:</u>

PEAK DISCHARGE FROM THE SITE IS 3.88 CFS WHICH IS LESS THAN THE ALLOWABLE PEAK DISCHARGE RATE, THEREFORE WE ARE IN CONFORMANCE WITH CITY OF JQUERQUE HYDROLOGY REQUIREMENTS AND REQUEST SITE DEVELOPMENT PLAN FOR BUILDING PERMIT APPROVAL.

# FEMA FIRM MAP # 35001C0116G

### PROPOSED BASIN DATA TABLE

THE PROJECT IS LOCATED ON THE NORTHWEST INTERSECTION OF PASEO DEL NORTE BLVD AND EAGLE RANCH RD. THIS SITE IS NOT WITHIN A DEFINED FLOOD ZONE AS SHOWN ON FIRM MAP NUMBER 35001C0116G (THIS SHEET). THE PURPOSE OF THIS SUBMITTAL IS TO PROVIDE A DRAINAGE MANAGEMENT PLAN FOR THE DEVELOPMENT OF SMILES FOR KIDS DENTIST OFFICE AND REQUEST SITE DEVELOPMENT PLAN FOR BUILDING PERMIT APPROVAL.

SITE PRIVATE ACCESS ROAD IS NOT INCLUDED IN THE CALCULATION. RUNOFF FROM TRACT 10-A-1 WILL BE ADDRESSED WITH THE DEVELOPMENT OF THAT TRACT.

