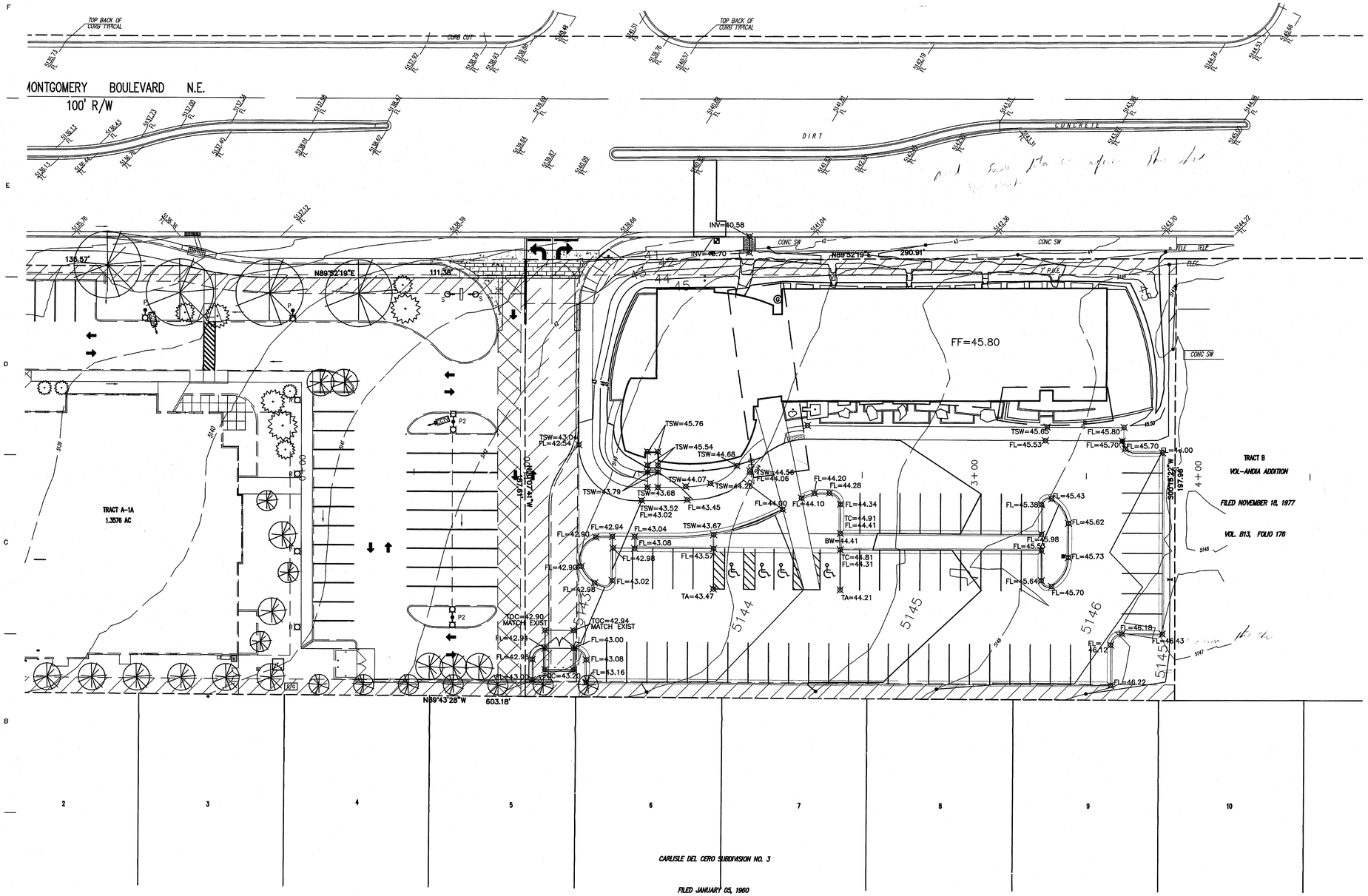


GENERAL NOTES:

A. See sheet C100 for complete list of general notes and symbol/linetype legend that apply to all sheets.

B. Surface features associated with underground utilities are shown on paving plans for clarity. See applicable utility plans for construction notes and details.

C. Contractor shall field verify site for existing conditions (spoils, borrow areas, etc.) prior to bidding earthwork quantities.

D. See survey for actual existing ground contours and spot elevations for earthwork in project area.

A1 OVERALL GRADING PLAN

SCALE: 1" = 20'-0"

GRAPHIC SCALE

30 0 10 20 40 60

(IN FEET)

1 inch = 20 ft.

DAVID A. ALBE — STATE OF NEW MEXICO — 14271 — REGISTERED PROFESSIONAL ENGINEER

7-8-06 7/6/06

THE DESIGN GROUP
ARCHITECTS · PLANNERS · INTERIOR DESIGN
302 CENTRAL AVENUE SE SUITE 200
ALBUQUERQUE, NEW MEXICO 87102
PHONE: 505.242.6885 FAX: 505.242.6881

RECEIVED JUL 07 2006 HYDROLOGY SECTION

PROJECT NAME:
Center for Prenatal Development
Montgomery Blvd
Albuquerque, NM

REVISIONS

No.	DATE	DESCRIPTION

SHEET TITLE:
SITE
GRADING
PLAN

DESIGNED:	DAA	SCALE:	1" = 20'-0"
CHECKED:	DAA	JOB NO:	2292
DATE:	05.08.06	COMP. FILE:	2292_C201

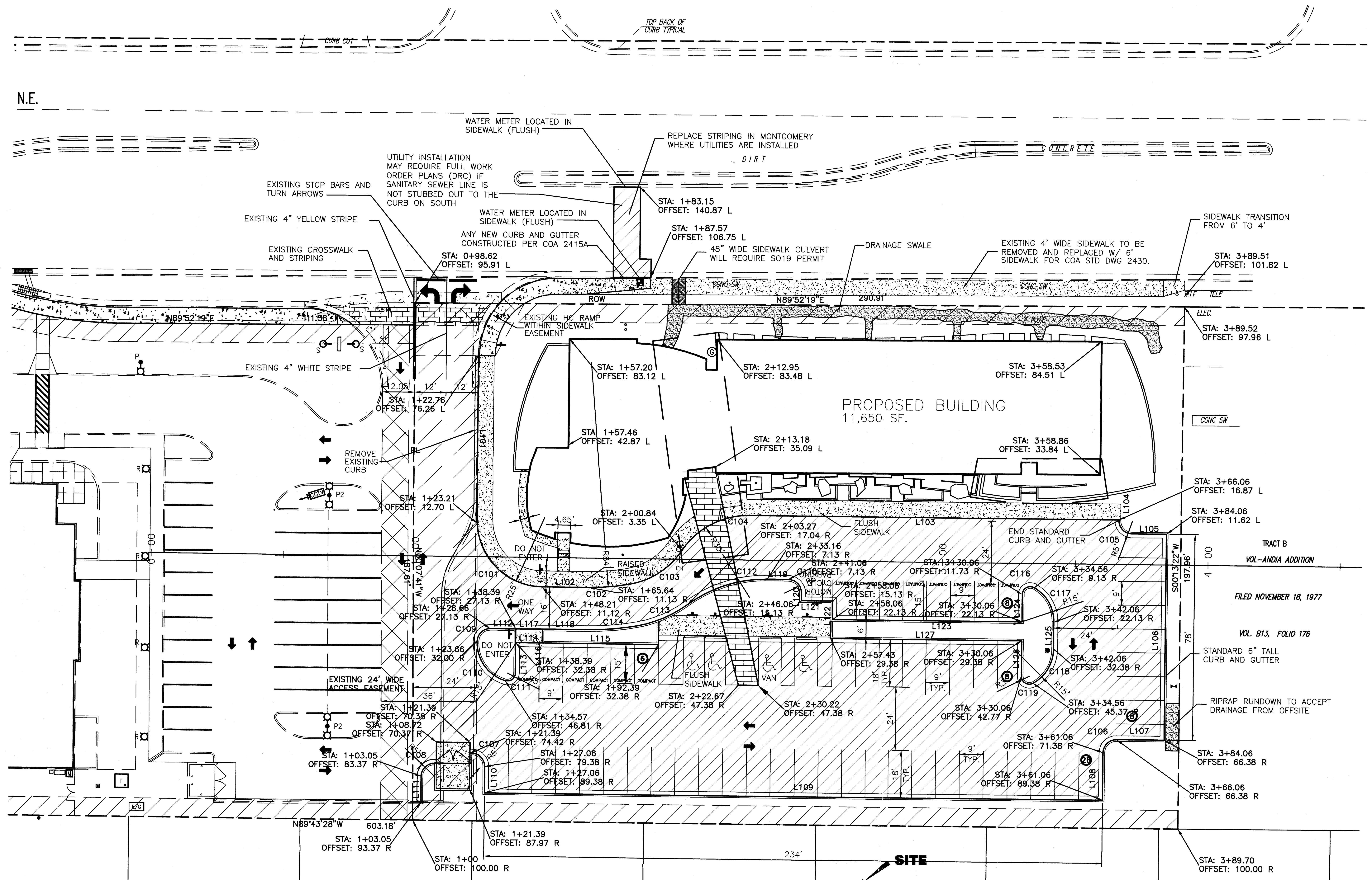
C201

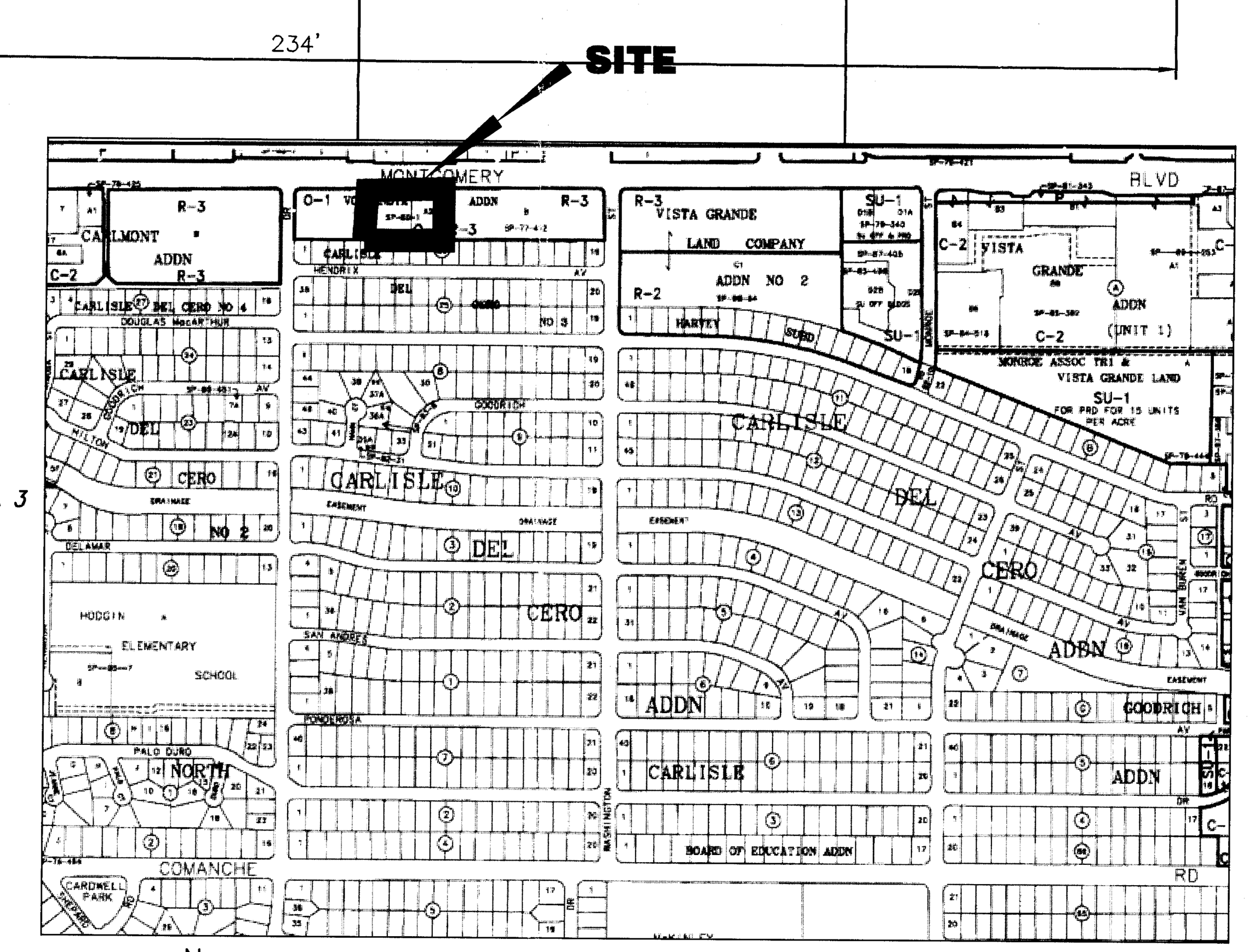
PAVING PLAN GENERAL NOTES:

A. See sheet CG01 for complete list of general notes and symbol/linetype legend that apply to all sheets.

B. Surface features associated with underground utilities are shown on paving plans for clarity. See applicable utility plans for construction notes and details.

C. See structural plans for over excavation/ engineered fill limits.





VICINITY MAP

NOT TO SCALE ZONE ATLAS G-17

LINE TABLE		
LINE	LENGTH	BEARING
L101	62.57	N00°08'51"W
L102	17.43	N89°44'15"W
L103	140.15	N89°44'15"W
L104	0.25	N00°15'45"E
L105	13.00	N89°44'15"W
L106	78.00	N00°15'45"E
L107	18.00	N89°44'15"W
L108	18.00	N00°15'45"E
L109	234.00	N89°44'15"W
L110	10.00	N00°15'45"E
L111	10.05	N00°15'45"E
L112	9.73	N89°44'15"W
L113	16.80	N00°15'45"E
L114	10.00	N89°44'15"W
L115	44.00	N89°44'15"W
L116	5.25	N00°15'45"E
L117	10.00	N89°44'15"W
L118	17.25	N89°44'15"W
L119	7.90	N89°44'15"W
L120	3.00	N00°15'45"E
L121	12.00	N89°44'15"W
L122	7.00	N00°15'45"E
L123	72.00	N89°44'15"W
L124	10.39	N00°15'45"E
L125	10.25	N00°15'45"E
L126	13.39	N00°15'45"E
L127	72.62	N89°44'15"W

CURVE TABLE				
CURVE	LENGTH	RADIUS	TANGENT	DELTA
C101	39.09	25.00	24.82	89°35'46"
C102	15.85	84.00	7.95	10°48'47"
C103	24.02	30.00	12.69	45°52'01"
C104	29.68	30.00	16.18	56°40'48"
C105	7.85	5.00	5.00	90°00'00"
C106	7.85	5.00	5.00	90°00'00"
C107	8.53	5.00	5.72	97°42'03"
C108	7.85	5.00	5.00	90°00'00"
C109	7.73	5.00	4.88	88°34'03"
C110	19.80	15.00	11.64	75°38'24"
C111	5.54	3.00	3.97	105°47'33"
C112	32.04	50.00	16.59	36°42'42"
C113	20.79	46.00	10.58	25°53'55"
C114	18.87	100.00	9.46	10°48'47"
C115	7.85	5.00	5.00	90°00'00"
C116	6.28	3.00	5.20	120°00'00"
C117	15.71	15.00	8.66	60°00'00"
C118	15.71	15.00	8.66	60°00'00"
C119	6.28	3.00	5.20	120°00'00"

TRAFFIC CIRCULATION LAYOUT APPROVED

40 7/11/06

Signed

7-6-06

TABULATED PARKING—REQUIRED BY ZONING		
PARKING REQUIRED	REGULAR	52 TOTAL
	HC	3 TOTAL
	VAN HC	1 TOTAL
	MOTORCYCLE	3 TOTAL
		59 TOTAL
PARKING PROVIDED	REGULAR	42 TOTAL
	COMPACT	14 TOTAL
	HC	3 TOTAL
	VAN HC	1 TOTAL
	MOTORCYCLE	3 TOTAL
		61 TOTAL

PARKING REQUIRED
1 SPACE/200SF OFFICE (11,650SF) = 59 SPACES
TOTAL REQUIRED 59 SPACES

RECEIVED JUL 07 2006 HYDROLOGY SECTION

A1 TRAFFIC CIRCULATION LAYOUT

SCALE: 1" = 20'-0"

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

DAVID A. AUBE STATE OF NEW MEXICO 14221 REGISTERED PROFESSIONAL ENGINEER

THE DESIGN GROUP
ARCHITECTS • PLANNERS • INTERIOR DESIGN
202 CENTRAL AVENUE SE SUITE 200
ALBUQUERQUE, NEW MEXICO 87102
PHONE: 505.242.6880 FAX: 505.242.6881

PROJECT NAME:
Center for Prenatal Development
Montgomery Blvd
Albuquerque, NM

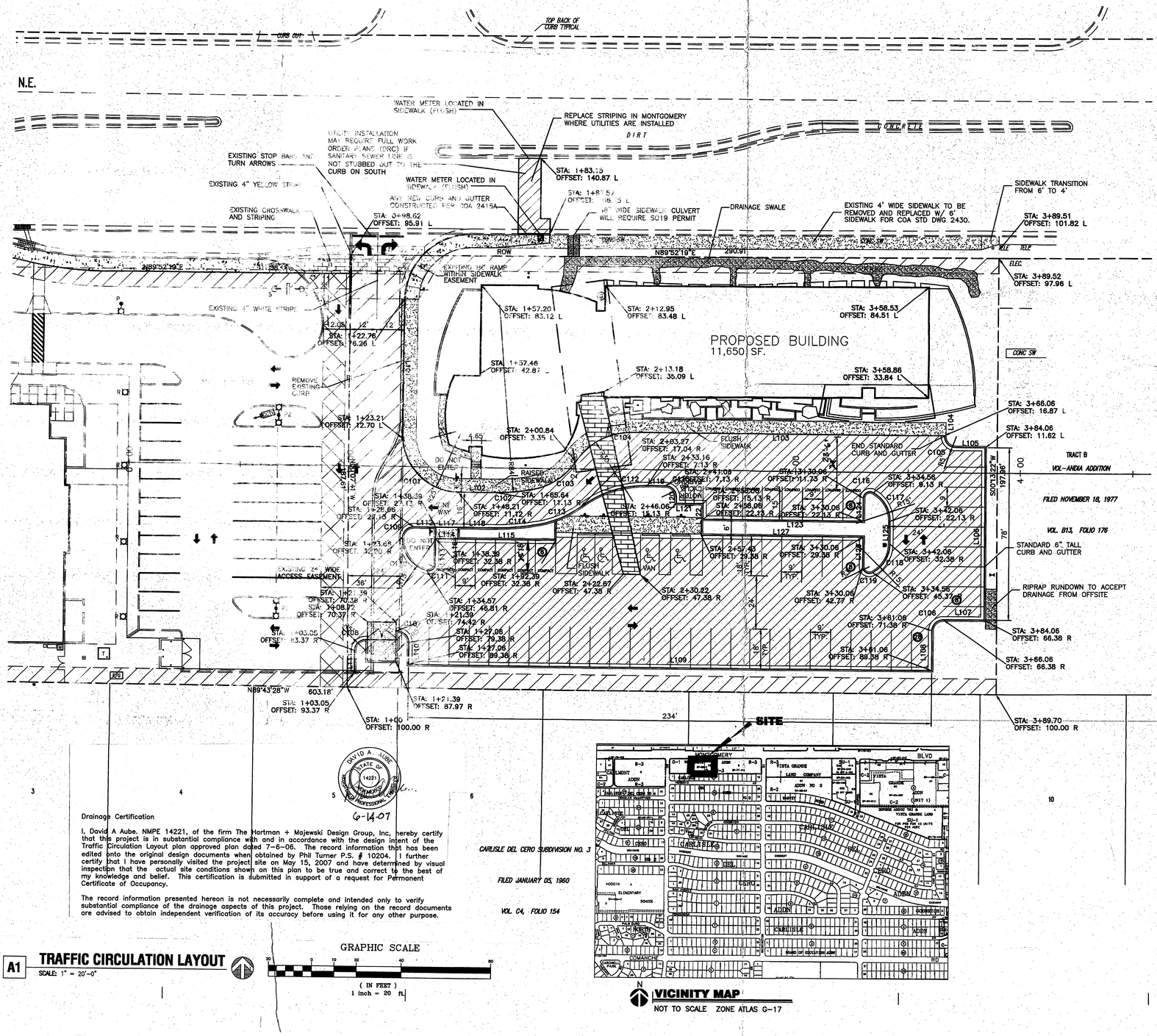
REVISIONS

No.	DATE	DESCRIPTION
1	06.21.06	ADDENDUM 1

SHEET TITLE:
TRAFFIC CIRCULATION LAYOUT

DESIGNED:	DAA	SCALE:	1" = 20'-0"
CHECKED:	DAA	JOB NO:	2292
DATE:	06.21.06	COMP. FILE:	2292_C101

TCL



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C118	15.71	15.00	8.66	60°00'00"
C119	6.28	3.00	5.20	120°00'00"

DAVID A. AUBE STATE OF NEW MEXICO 14221 REGISTERED PROFESSIONAL ENGINEER
6-14-07

Drainage Certification

I, David A Aube. NMPE 14221, of the firm The Hartman + Majewski Design Group, Inc, hereby certify that this project is in substantial compliance with and in accordance with the design intent of the Traffic Circulation Layout plan approved plan dated 7-6-06. The record information that has been edited onto the original design documents when obtained by Phil Turner P.S. # 10204. I further certify that I have personally visited the project site on May 15, 2007 and have determined by visual inspection that the actual site conditions shown on this plan to be true and correct to the best of my knowledge and belief. This certification is submitted in support of a request for Permanent Certificate of Occupancy.

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

CARLISLE DEL CERO SUBDIVISION NO. 3
FILED JANUARY 05, 1960
VOL. C4, FOLIO 154

A1 TRAFFIC CIRCULATION LAYOUT
SCALE: 1" = 20'-0"

GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.

N
VICINITY MAP
NOT TO SCALE ZONE ATLAS G-17

TRAFFIC CIRCULATION LAYOUT APPROVED
7/11/06
Signed Date

DAVID A. AUBE STATE OF NEW MEXICO 14221 REGISTERED PROFESSIONAL ENGINEER
7-6-06

THE DESIGN GROUP
ARCHITECTS · PLANNERS · INTERIOR DESIGN
302 CENTRAL AVENUE SE SUITE 200
ALBUQUERQUE, NEW MEXICO 87102
PHONE: 505.242.4888 FAX: 505.242.4883

TABULATED PARKING--REQUIRED BY ZONING		
PARKING REQUIRED	REGULAR	52 TOTAL
	HC	3 TOTAL
	VAN HC	1 TOTAL
	MOTORCYCLE	3 TOTAL
		59 TOTAL
PARKING PROVIDED	REGULAR	42 TOTAL
	COMPACT	14 TOTAL
	HC	3 TOTAL
	VAN HC	1 TOTAL
	MOTORCYCLE	3 TOTAL
		61 TOTAL

PARKING REQUIRED
1 SPACE/200SF OFFICE (11,650SF) = 59 SPACES
TOTAL REQUIRED 59 SPACES

RECEIVED JUL 07 2006 HYDROLOGY SECTION

RECEIVED JUN 14 2007 HYDROLOGY SECTION

PROJECT NAME:
Center for Prenatal Development
Montgomery Blvd
Albuquerque, NM

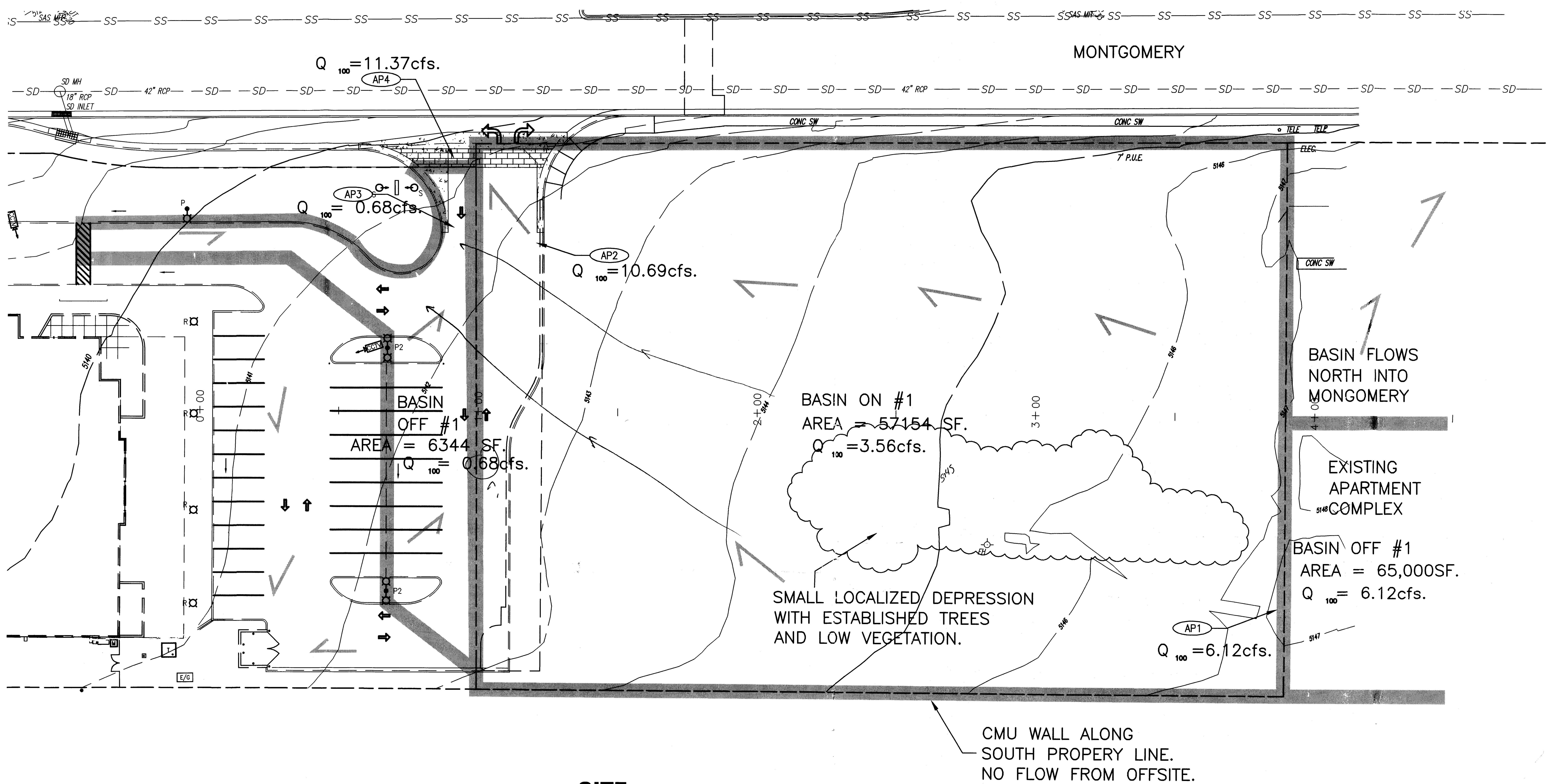
REVISIONS

No.	DATE	DESCRIPTION
1	06.21.06	ADDENDUM 1

SHEET TITLE:
TRAFFIC CIRCULATION LAYOUT

DESIGNED:	DAA	SCALE:	1" = 20'-0"
CHECKED:	DAA	JOB NO.	2252
DATE:	06.21.06	COMP. FILE:	2252_C101

TCL



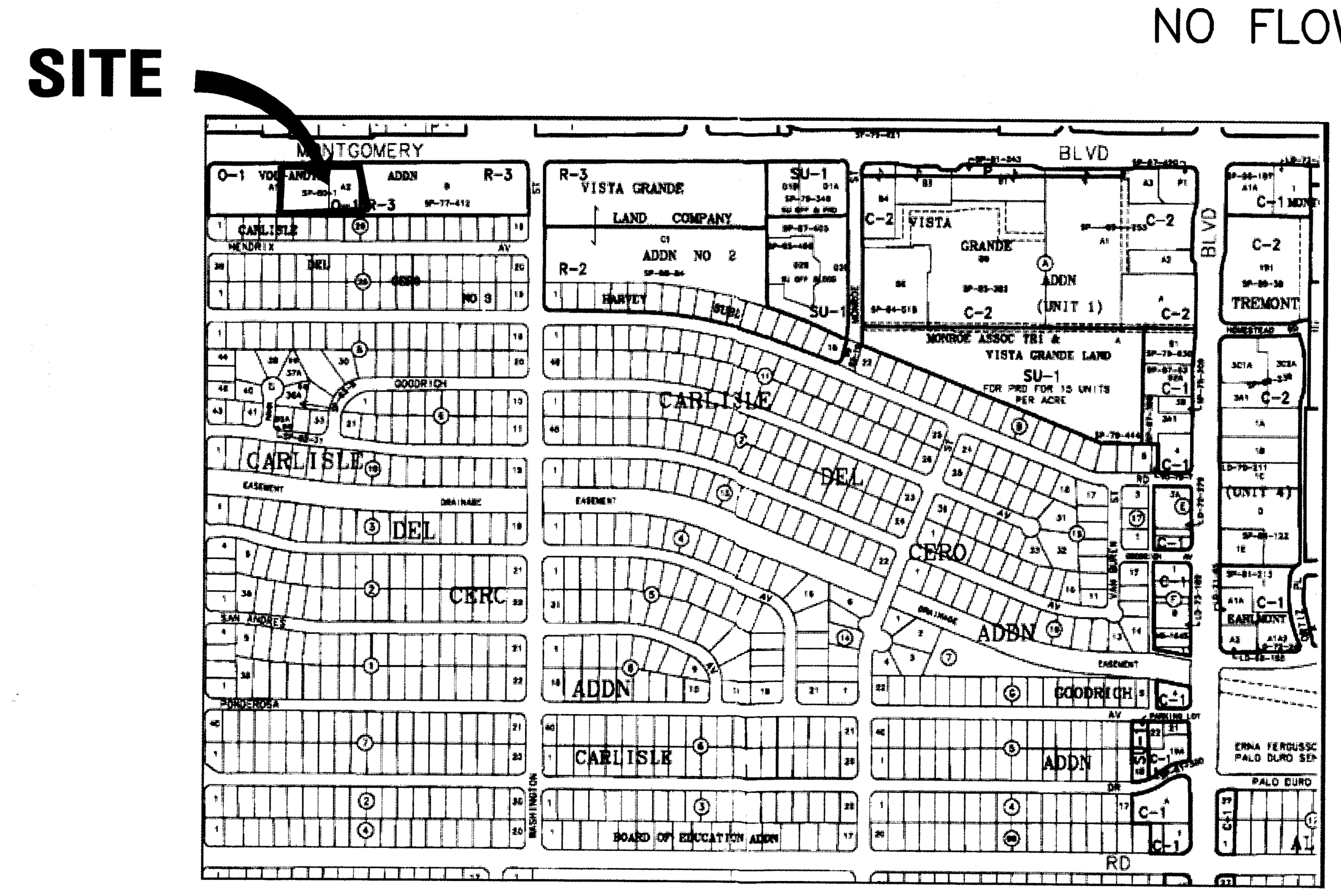
BASIN #	A	B	C	D
ON 1	0	50	50	0
OFF 1	0	15	15	70
OFF 2	0	0	0	100

A1 **EXISTING SITE DRAINAGE PLAN**

SCALE: 1" = 20'-0"

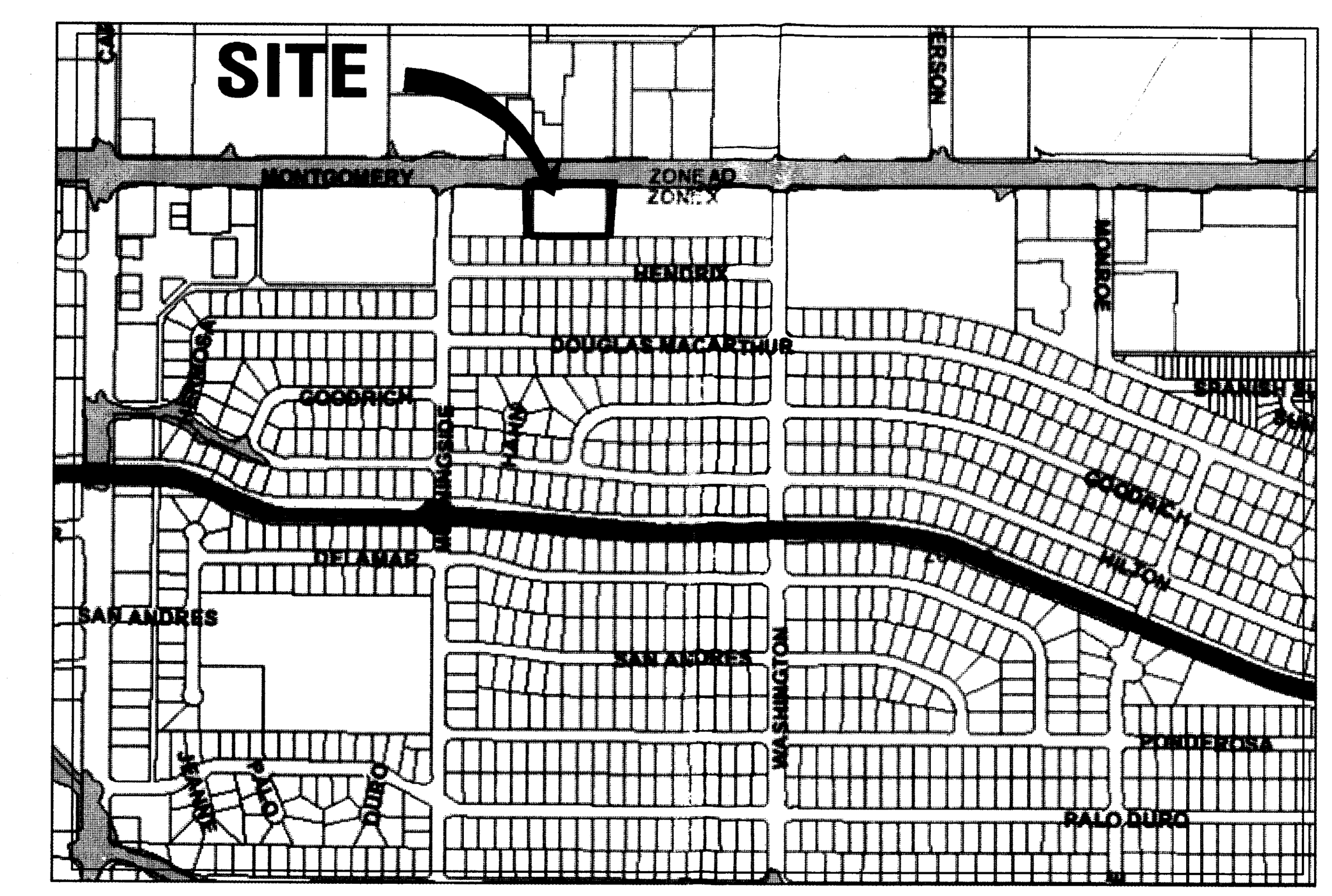
GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.



VICINITY MAP G-17-Z

NOT TO SCALE



FLOOD ZONE MAP

NOT TO SCALE

5-25-06

THE DESIGN GROUP
ARCHITECTS • PLANNERS • INTERIOR DESIGN
202 CENTRAL AVENUE SE SUITE 200
ALBUQUERQUE, NEW MEXICO 87102
PHONE: 505.242.6880 FAX: 505.242.6881

PROJECT NAME:
Center of Prenatal Development
Montgomery Blvd.
Albuquerque, NM

REVISIONS

No.	DATE	DESCRIPTION

SHEET TITLE:
EXISTING SITE
DRAINAGE
PLAN

DESIGNED:	DAA	SCALE:	1" = 20'
CHECKED:	DAA	JOB NO:	2292
DATE:	02.20.06	COMP. FILE:	A1.1_2260

CD1

Center for Prenatal Development Facility

I. PURPOSE AND SCOPE

The purpose of this drainage plan is to present the existing and proposed drainage management plans for the proposed Center for Prenatal Development Facility located on Montgomery near the Morningside. The site currently vacant.

II. SITE DESCRIPTION AND HISTORY

The site was originally part of the apartment complex located to the East. The drainage plan on file at the City of Albuquerque Hydrology department shows that the southern driveway collected water and conveyed this flow into this site. This site will be designed to allow this off site runoff to pass through and out into Montgomery. 6.12 cfs

III. COMPUTATIONAL PROCEDURES

Hydrologic analysis was performed utilizing the design criteria found in the COA-DPM Section 22.2 released in June 1997.

IV. PRECIPITATION

The 100-yr 6-hr duration storm was used as the design storm for this analysis. This site is within Zone 2 as identified in the DPM Section 22.2. Tables within the section were used to establish the 6-hr precipitation, excess precipitation and peak discharge. The retention pond located in the southwest corner was designed to contain the 100-yr 72-hr event.

V. EXISTING DRAINAGE CONDITIONS OVERVIEW

The existing site was previously planned for an extension of the apartment complex to the east. There was to be additional retention ponds constructed between buildings to remove the water form the southern driveway and building runoff. There is a stand of trees and low vegetation that has become well established where the excess runoff from the southern driveway enters the site from the east. A pre-design discussion was conducted with staff regarding this offsite drainage and ponding requirement for onsite drainage. Brad Bingham indicated that offsite drainage should be routed through the site and discharge directly into Montgonery. Because this site is an infill project and the storm drainage infrstructure in Montgomery is fully developed, free discahrge for this development will be permitted.

The existing site generally flows from east to west and eventually into Montgomery Boulevard. The peak runoff from Basin Offsite #1 is 6.12cfs. This flow rate will be permitted to pass throught the driveway inot Montgomery Boulevard.

The existing 57154sf site generates a peak runoff of 3.56cfs.

VI. DRAINAGE MANAGEMENT PLAN

Offsite drainage form Basin off #1 will be allowed to enter the site at is current location and will be conveyed through the site. The proposed building will have a high point (ridge) in the roof that will shed the water to the north and to the south. The site has therefor been divided into two basins as shown on sheet CD2.

The impervious treatments are 15%B and 85%D for Basin Pro On #1 and 20%B, 20%C, and 60%D for Pro On #2. The peak runoff of 4.57cfs from Pro basin #1 will be added to offsite Basin Off #1 for a combined total of 10.69 cfs entering Mongomery Boulevard through the drive pad. Basin Pro #2 generates a peak flow rate of 1.01 cfs and will be conveyed to the sidewalk culvert requiring an SO-19 permit by a riprap channel within the landscaping on the north side of the building.

The peak total runoff generated by the two onsite basins is 5.58 cfs.

VII. CONCLUSIONS

This is an infill project and downstream storm dainage structures are in place to allow for free discharge.

The small increase in runoff should have neglegable effects on downstream users.

N. FIRM

Drainage Summary

Project:	Center for Prenatal Development			
Project Numbe:	2292			
Date:	05/16/06			
By:	Dave A			
Site Location				
Precipitaion Zone	2 Per Table A-1 COA DPM Section 22.2			
Existing summary				
Basin Name	Ex 1	Off Ex #1	Off Ex #2	
Area (sf)	57154	65000	6343	
Area (acres)	1.31	1.49	0.15	
%A Land treatment				
%B Land treatment	50	15		
%C Land treatment	50	15		
%D Land treatment		70	100	
Soil Treatment (acres)				
Area "A"	0.00	0.00	0.00	
Area "B"	0.66	0.22	0.00	
Area "C"	0.66	0.22	0.00	
Area "D"	0.00	1.04	0.15	
Excess Runoff (acre-feet)				
100yr. 6hr.	0.1044	0.2202	0.0257	
10yr. 6hr.	0.0437	0.1316	0.0163	
2yr. 6hr.	0.0093	0.0719	0.0096	
100yr. 24hr.	0.1044	0.2550	0.0306	
Peak Discharge (cfs)				
100 yr.	3.56	6.12	0.68	
10yr.	1.75	3.88	0.46	
2yr.	0.45	2.10	0.27	
Proposed summary				
Basin Name	Pro On #1	Pro On #2	Off Ex #1	Off Ex #2
Area (sf)	45879	11275	65000	6343
Area (acres)	1.05	0.26	1.49	0.15
%A Land treatment				
%B Land treatment	15	20	15	
%C Land treatment		20	15	
%D Land treatment	85	60	70	100
Soil Treatment (acres)				
Area "A"	0.00	0.00	0.00	0.00
Area "B"	0.16	0.05	0.22	0.00
Area "C"	0.00	0.05	0.22	0.00
Area "D"	0.90	0.16	1.04	0.15
Excess Runoff (acre-feet)				
100yr. 6hr.	0.1684	0.0357	0.2202	0.0257
10yr. 6hr.	0.1037	0.0208	0.1316	0.0163
2yr. 6hr.	0.0592	0.0110	0.0719	0.0096
100yr. 24hr.	0.1983	0.0409	0.2550	0.0306
Peak Discharge (cfs)				
100 yr.	4.57	1.01	6.12	0.68
10yr.	2.96	0.63	3.88	0.46
2yr.	1.68	0.32	2.10	0.27

DAVID A. AUBE — STATE OF NEW MEXICO — REGISTERED PROFESSIONAL ENGINEER

5-25-06

THE DESIGN GROUP
ARCHITECTS · PLANNERS · INTERIOR DESIGN
202 CENTRAL AVENUE SE SUITE 200
ALBUQUERQUE, NEW MEXICO 87102
PHONE: 505.242.6880 FAX: 505.242.6881

PROJECT NAME:
Center of Prenatal Development
Montgomery Blvd.
Albuquerque, NM

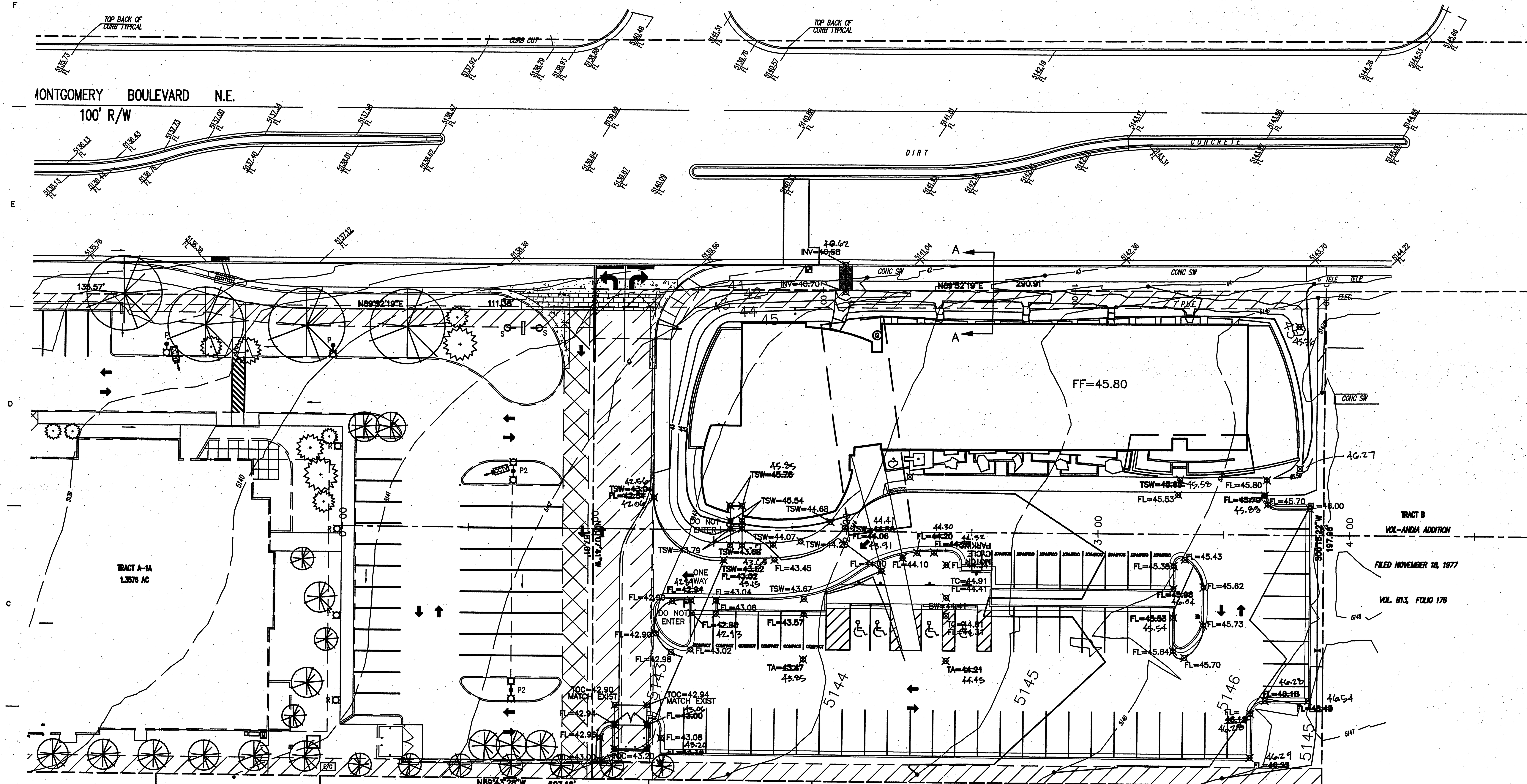
REVISIONS

No.	DATE	DESCRIPTION

SHEET TITLE:
DRAINAGE
NARRATIVE

DESIGNED:	DAA	SCALE:	VARIES
CHECKED:	DAA	JOB NO:	2292
DATE:	02.20.06	COMP. FILE:	2292_CD.2

CD.3



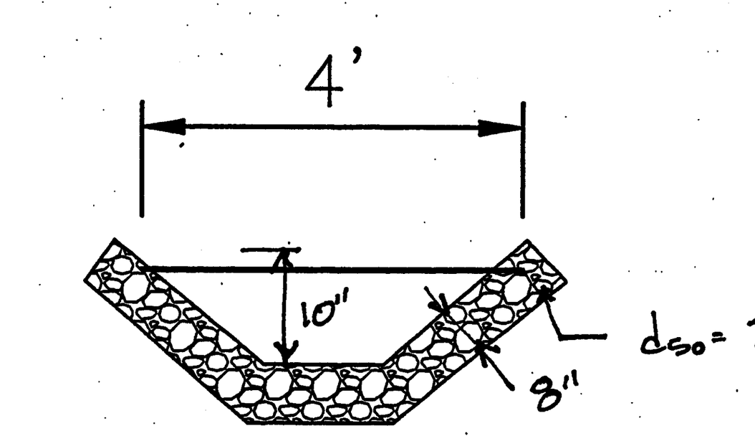
GENERAL NOTES:

A. See sheet C100 for complete list of general notes and symbol/linetype legend that apply to all sheets.

B. Surface features associated with underground utilities are shown on paving plans for clarity. See applicable utility plans for construction notes and details.

C. Contractor shall field verify site for existing conditions (spoils, borrow areas, etc.) prior to bidding earthwork quantities.

D. See survey for actual existing ground contours and spot elevations for earthwork in project area.



RIP RAP SWALE
SECTION A–A

Drainage Certification

I, David A Aube. NMPE 14221, of the firm The Hartman + Majewski Design Group, Inc, hereby certify that this project is in substantial compliance with and in accordance with the design intent of the Grading and Drainage plan approved plan dated 7–12–06. The record information that has been edited onto the original design documents when obtained by Phil Turner P.S. #10204. The Benchmark used for this as built information is ACS "M–SA" with Elevation (NAVD29) = 5154.523. I further certify that I have personally visited the project site on June 6, 2007 and have determined by visual inspection that the actual site conditions shown on this plan to be true and correct to the best of my knowledge and belief. This certification is submitted in support of a request for Permanent Certificate of Occupancy.

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

DAVID A. AUBE — STATE OF NEW MEXICO — 14221 — REGISTERED PROFESSIONAL ENGINEER

6-15-07

A1 OVERALL GRADING PLAN
SCALE: 1" = 20'-0"

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

DAVID A. AUBE — STATE OF NEW MEXICO — 14221 — REGISTERED PROFESSIONAL ENGINEER

7-12-06

THE DESIGN GROUP
ARCHITECTS • PLANNERS • INTERIOR DESIGN
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ALBUQUERQUE, NEW MEXICO 87102
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PROJECT NAME:
Center for Prenatal Development
Montgomery Blvd
Albuquerque, NM

REVISIONS

No.	DATE	DESCRIPTION
1	06.21.06	ADDENDUM 1

SHEET TITLE:
SITE
GRADING
PLAN

DESIGNED:	DAA	SCALE:	1" = 20'-0"
CHECKED:	DAA	JOB NO:	2292
DATE:	06.21.06	COMP. FILE:	2292_C201

C201