CITY OF ALBUQUERQUE

April 4, 2007

Jeffrey L. Mulberry, P.E.
Bohannan Huston, Inc.
7500 Jefferson NE – Courtyard 1
Albuquerque, NM 87109

Re: Mesa del Sol COA WO 7754.83 and 7754.84 Design Analysis Report Engineer's Stamp dated 3-26-07(R16/D001)

Dear Mr. Mulberry,

Based upon the information provided in your submittal dated 3-27-07, the above referenced report is approved for Work Order. When submitting the next set of plans for DRC, provide details of the pond to be constructed near Building 3. In addition, include the volume provided and the volume required for the interim condition for the two ponds west of Building 2 and Building 3.

Any comments on the plans will be handled through the DRC process.

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

Sincerely,

Curtis A. Cherne, E.I.
Engineering Associate, Planning Dept.
Development and Building Services

C: file

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

DRAINAGE AND TRANSPORTATION INFORMATION SHEET
(REV. 1/11/2002)

R-14/D001

PROJECT TITLE: Mesa del Sol Block one COA WO #'s 7754.83 & 7754.84 – Design Analysis Report
ZONE MAP/DRG. FILE # R15-R16
DRB #: 1004872 EPC#: _____ WORK ORDER#: 7754.83 & 7754.84

LEGAL DESCRIPTION: _____
CITY ADDRESS: _____

ENGINEERING FIRM: Bohannan Huston, Inc.
ADDRESS: 7500 Jefferson NE – Courtyard I
CITY, STATE: Albuquerque, NM
CONTACT: Jeff Mulbery
PHONE: (505) 823-1000
ZIP CODE: 87109

OWNER: Forest City Covington, N.M., LLC
ADDRESS: 801 University Blvd. SE, Suite 200
CITY, STATE: Albuquerque, NM
CONTACT: Mike Castillo
PHONE: 505-400-3021
ZIP CODE: 87106

ARCHITECT: _____
ADDRESS: _____
CITY, STATE: _____
CONTACT: _____
PHONE: _____
ZIP CODE: _____

SURVEYOR: _____
ADDRESS: _____
CITY, STATE: _____
CONTACT: _____
PHONE: _____
ZIP CODE: _____

CONTRACTOR: _____
ADDRESS: _____
CITY, STATE: _____
CONTACT: _____
PHONE: _____
ZIP CODE: _____

CHECK TYPE OF SUBMITTAL:
- ____ DRAINAGE REPORT
- ____ 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 (DRAINAGE DESIGN ANALYSIS REPORT)

dc

CHECK TYPE OF APPROVAL SOUGHT:
- ____ SIA / FINANCIAL GUARANTEE RELEASE
- ____ PRELIMINARY PLAT APPROVAL
- ____ S. DEV. PLAN FOR SUB'D. APPROVAL
- ____ S. DEV. PLAN FOR DRB 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
- X WORK ORDER APPROVAL
- X OTHER (DRC HYDROLOGY APPROVAL)

WAS A PRE-DESIGN CONFERENCE ATTENDED:
- ____ YES
- ____ NO
- ____ COPY PROVIDED

RECEIVED
MAR 2 7 2007
HYDROLOGY SECTION

DATE SUBMITTED: 03-26-07 BY: Jeff Mulbery/mb

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.

Bohannan ▲ Huston INC.

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

CLIENT/COURIER TRANSMITTAL

To: Brad Bingham
City of Albuquerque
600 2nd St. NW 2nd Floor
Albuquerque, NM 87102

Requested by: Mike Balaskovits

Date: March 27, 2007

Time Due:
- ☐ **This A.M.**
- ☒ **This P.M.**
- ☐ **Rush** _____
- ☐ **By Tomorrow**

Phone: 924-3986

Job No.: 070010

Job Name: Mesa del Sol Public Work Order

DELIVERY VIA

- ☒ **Courier**
- ☐ **Federal Express**
- ☐ **Mail**
- ☐ **UPS**
- ☐ **Other**

PICK UP

Item: _____

ITEM NO.	QUANTITY	DESCRIPTION
1	1	Mesa del Sol Block One - COA Work Order #'s 7754.83 & 7754.84 Drainage Design Analysis Report
1	1	Drainage info sheet

COMMENTS / INSTRUCTIONS

Brad,

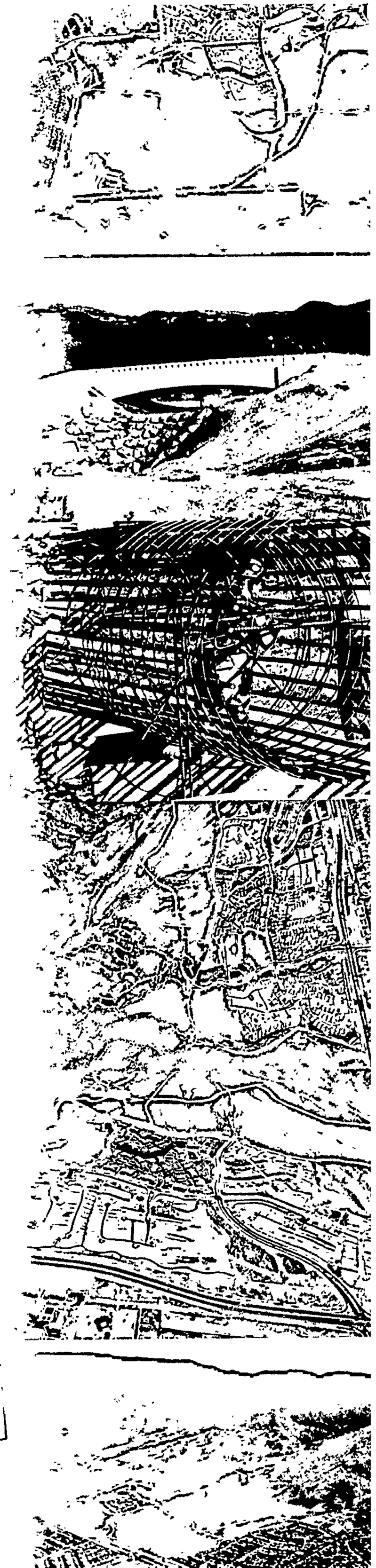
Attached is the DAR in support of the COA work order #'s 7754.83 and 7754.84. These work order's are scheduled at DRC April 4 (1:30 and 2:30). If you have any questions or comments do not hesitate to let myself or Jeff Mulbery know. Thanks.

Mike Balaskovits

REC'D BY: Sandy Handley ***DATE:*** 03/27/07 ***TIME:*** 3:20

ENGINEERING ▲
SPATIAL DATA ▲
ADVANCED TECHNOLOGIES ▲

MESA DEL SOL BLOCK ONE DESIGN ANALYSIS REPORT



COA Work Order No's.
7754.83 and 7754.84

MARCH 26, 2007

Prepared for:
City of Albuquerque
PO Box 1293
Albuquerque, NM 87103

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HYDROLOGY SECTION

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ENGINEERING ▲
SPATIAL DATA ▲
ADVANCED TECHNOLOGIES ▲

MESA DEL SOL BLOCK ONE – COA WORK ORDER #'S 7754.83 & 7754.84
DESIGN ANALYSIS REPORT

March 26, 2007

PREPARED BY:
BOHANNAN HUSTON INC.
COURTYARD ONE
7500 JEFFERSON NE
ALBUQUERQUE, NM 87109

Prepared by:

3.26.07
Jeffrey L. Mulbery, PE. Date

3-26-07
Michael Balaskovits, E.I. Date

TABLE OF CONTENTS

I. PURPOSE **1**
II. SITE LOCATION AND CHARACTERISITICS **1**
III. HYDROLOGY **1**
A. Precipitation 1
B. Time to Peak 2
C. Land Treatments 2
D. Sediment Bulking Factors 2
E. Routing 2
IV. HYDRAULICS **3**
V. INTRODUCTION **3**
VI. DRAINAGE AREAS **3**
A. Drainage Basin (Solar Mesa Ave. Infrastructure) 3
B. Drainage Basin (Ochoa Ave. Infrastructure) 4
C. Drainage Basin (Watson Dr. Infrastructure) 5
VII. INTERIM CONDITIONS **5**
VIII. RESULTS AND RECOMMENDATIONS **5**

FIGURES

Figure 1 – Drainage Area Contributing to Solar Mesa Avenue
Figure 2 – Drainage Area Contributing to Ochoa Avenue
Figure 3 – Drainage Area Contributing to Offsite Drainage to the East
Figure 4 – Drainage Area Contributing – Regional Retention Pond – Interim Conditions

APPENDICES

APPENDIX A – Hydraulic Calculations
APPENDIX B – HGL Calculations
APPENDIX C – Mesa del Sol Employment Center – Block 1 Drainage Management Plan
APPENDIX D – Bulk Land Plat (Draft)

I. PURPOSE

This design report presents an analysis of the drainage concepts for the full construction of the "Loop Road" in Block 1 (Drainage Area 1) of the Mesa Del Sol Employment Center. The "Loop Road" project consists of approximately 2,035 feet of Solar Mesa Avenue, 950 feet of Watson Drive, and 1,915 feet of Ochoa Avenue. The drainage concepts described in this report are consistent to those in the "Mesa Del Sol Employment Center – Block 1 Drainage Management Plan," stamped January 31, 2007. This report will specifically address all drainage areas within the Block that affect the street flow and storm drainage out falling to two regional retention ponds centrally located within the block (drainage area). ***With this submittal, we are requesting COA hydrology department approval for DRC work order approval (COA Project numbers 7754.83, 7754.84)***

II. SITE LOCATION AND CHARACTERISITICS

The project is located east of University Blvd. and north of the Advent Solar building recently constructed. This loop road will encompass approximately 28 acres, which will be developed at a later date. The land slopes from west to east at approximately 0.5%.

III. HYDROLOGY

The methodology selected for hydrological analysis of the project area is the City of Albuquerque's 1997 Development Process Manual (DPM), chapter 22, section 2. All basin discharges were calculated using the rational method, as per DPM requirements.

A. Precipitation

Historically, the majority of rainfall occurring in Albuquerque is the result of local thunderstorms that occur during the summer months. This can result in flash flooding downstream. Rainfall values for this block (drainage area) were determined from the City of Albuquerque DPM for Zone 2. The total rainfall depths used in the calculations for runoff models are:

Rain One (I hour – 100 year) 2.01 inches

Rain Six (6 hour – 100 year) 2.35 inches

Rain Day (24 hour – 100 year) 2.75 inches

B. Time to Peak

The time of concentration is defined as the time it takes for runoff to travel from the farthest upstream point in a basin to the basin outfall. The time to peak is defined as the time it takes for the runoff hydrograph at the outlet of a basin to reach its peak and is estimated as two-thirds of the time of concentration. This report utilizes the SCS Upland Method to calculate time of concentration for basins with reach lengths less than 4,000 ft as presented in the DPM Section 22.2.

C. Land Treatments

Land treatment types describe land usage. Table A-4 in Section 22.2 of the DPM describes the land conditions associated with each treatment type. There are four treatment types: A, B, C, and D. Type A is the most pervious, and Type D is the most impervious. All developed basins analyzed within this DAR were assumed to be 90% Treatment D and 10% Treatment B for conservative and simplistic approach. The land treatments associated with the undeveloped areas is assumed to be 50% treatment A and 50% treatment B.

D. Sediment Bulking Factors

Sediment bulking accounts for increases in flow rates and volumes due to sediment in the runoff. For this study, a bulking factor was not used because under developed conditions the majority of the area will be covered with either irrigated grass or asphalt.

E. Routing

The runoff flows routed through Block 1 will utilize street flow and storm drainage. The Manning's coefficient (N) value used for routing was 0.017 for street flow and 0.013 for a concrete storm drain.

F. Drainage Infrastructure Design

All conveyance facilities (streets, pipes, catch basins, etc.) are sized for the 100 year, 6 hour storm event. The regional retention ponds are sized for the 100 year, 10 day storm event.

IV. HYDRAULICS

The hydraulic calculations contained in this report were performed using the DPM Section 22 Standard Roadway Drainage Criteria. All hydraulic calculations can be found in Appendix A Hydraulic Calculations.

V. INTRODUCTION

The COA approved "Mesa del Sol Employment Center – Block 1 Drainage Management Plan," (COA Hydro file R16/D001) previously set the framework for the analysis of this road way. In that plan, it was stated that the entire block will outfall to two regional retention ponds sized to accept the 100 year, 10 day storm event. Four basins shown in that report will outfall directly to the retention ponds and not effect the design of the public infrastructure (Basins 1E, 1F, 1H, and 1J). This DAR will only analyze the portion of Block 1 (Drainage Area 1) that will effect the public infrastructure design. This portion is broken up into three drainage basins, which will be analyzed individually with this report. They are as follows:

1. The drainage basin contributing to the Solar Mesa Infrastructure (Figure 1)
2. The drainage basin contributing to the Ochoa Ave. Infrastructure (Figure 2)
3. The eastern portion of Watson Dr., which will discharge to the east via surface flow (Figure 3).

VI. DRAINAGE AREAS

The three drainage areas associated with the construction of the Loop Road, which affect the design of the storm drain and inlets, are discussed below. This infrastructure was sized for the 100 year 6 hour storm event.

A. Drainage Basin (Solar Mesa Ave. Infrastructure)

The drainage basin contributing to the design of the Solar Mesa Ave. infrastructure is approximately 7.01 acres (see Figure 1). This basin consists of one third of the drainage basin 1G, Solar Mesa Ave from University Blvd to Watson Dr. and a portion of the west side of Watson Dr. Drainage was analyzed at two points for this basin. Point 1 located just east of Turing Dr. and Point 2 located at the low point adjacent to the Regional

Retention ponds (see Figure 1 and Table 1) The drainage resulting from the 100 year, 6 hour storm event from these contributing basins is conveyed to the regional retention pond via surface flow within the road. Once this drainage has reached the low point (located adjacent to the regional retention pond), this flow will enter the pond via two type 'A' inlets to a storm drain. The inlets and storm drainage at this point have been sized to accommodate the contributing flow generated by this basin (see Table 2, road and inlet capacities). 30 cfs ?

In addition, there will be a 24" storm drain constructed within Solar Mesa Ave. to serve a portion of Basin 1G for future use. This storm drain is an alternate means of drainage to the regional retention pond for basin 1G. It accommodates some flexibility for the development of this tract. A maximum of 8cfs can enter this storm drain requiring the remaining discharge to exit the site via surface flow into Solar Mesa Ave. or Turing Dr. (See Appendix B for hydraulic grade line location).

B. Drainage Basin (Ochoa Ave. Infrastructure)

The drainage basin contributing to the design of Ochoa Ave. infrastructure is approximately 15.38 acres (see Figure 2). This basin consists of two thirds of basin 1G, basin 1D, approximately 1,900 LF of Ochoa Ave from University Blvd. east to Watson Dr., approximately 870 LF of Turing Dr., and approximately 670 LF of the western portion of Watson Dr. Drainage was analyzed at two points for this basin. Point 3 located just east of Turing Dr. and Point 4 located at the low point adjacent to the Regional Retention ponds (see Figure 2 and Table 1). The drainage resulting from the 100 year, 6 hour storm event from these contributing basins is conveyed to the regional retention pond via surface flow within the road. At Point 3, two type 'A' inlets are located on the slope allowing approximately 8 cfs to enter each inlet. The remaining drainage is conveyed to the low point, located adjacent to the regional retention pond. This drainage will enter the pond via two type 'A' double grate inlets tied to the 36" Regional Pond connecting storm drain. (Note: The 36" RCP storm drain that connects the regional retention ponds is sloped such that during small storm events, the drainage will enter the large regional retention pond. During large storms this 36" connector pipe will act as an equalizer).

In addition, there will be a 24" storm drain constructed within Ochoa Ave to serve Basin 1D and a portion of 1G for future use. This storm drain is an alternate means of drainage to the regional retention pond for these two basins. It accommodates some flexibility for the development of these tracts. A maximum of 4cfs can enter this storm drain from each basin requiring the remaining discharge to exit the site via surface flow into Ochoa Ave. or Turing Dr. (See Appendix B for hydraulic grade line locations)

C. Drainage Basin (Watson Dr. Infrastructure)

The eastern portion of Watson Dr. consist of approximately 1.0 acre. The drainage was analyzed at one point for this basin. Point 5 located at the low point within Watson (at Ochoa Ave.) will outfall to the east via surface flow into the existing playa system at 4.49 cfs (see Figure 3 and Table 1). Upon development of the tracts to the east, this tract will outfall to a future retention pond to be designed later.

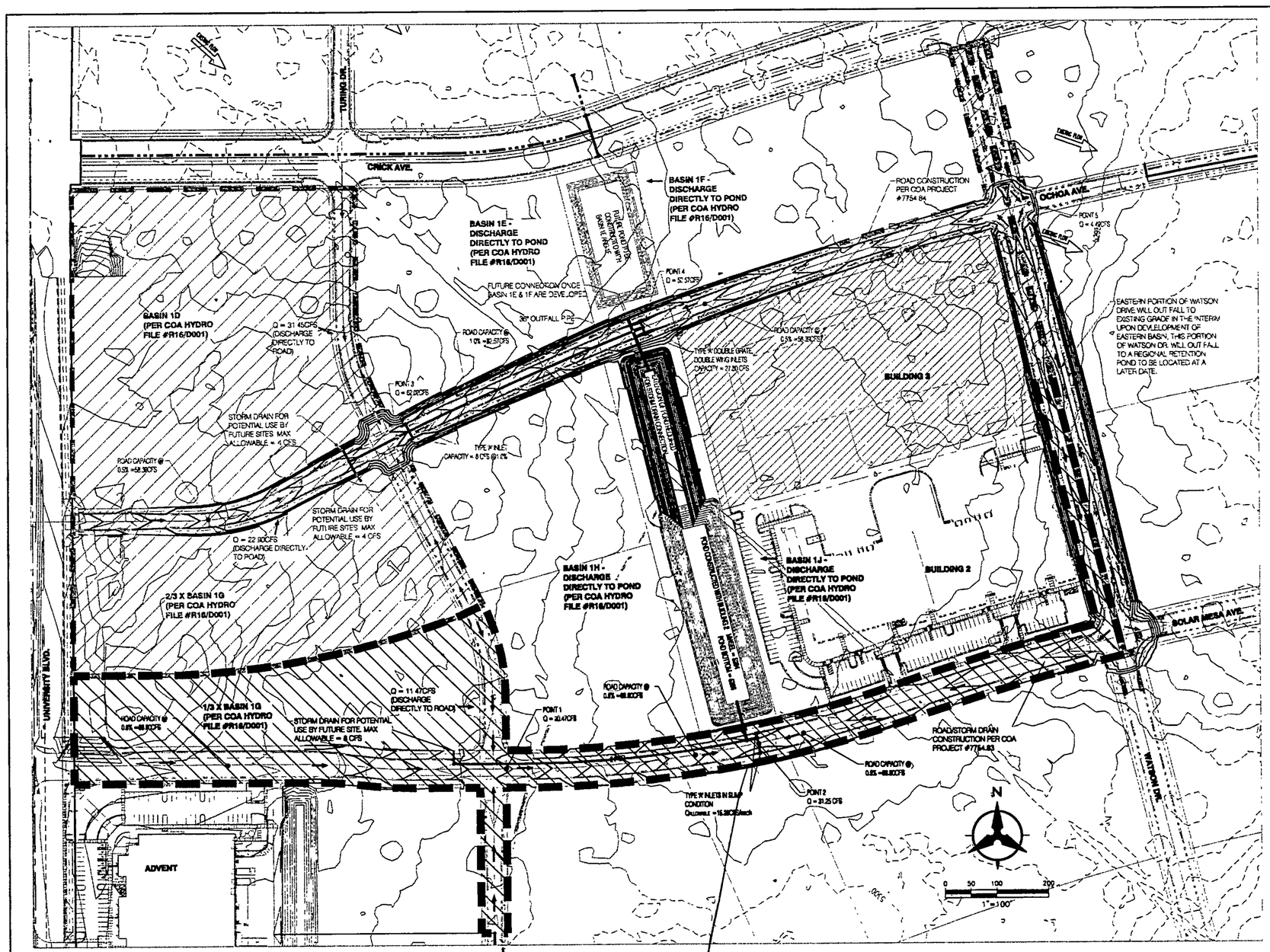
VII. INTERIM CONDITIONS

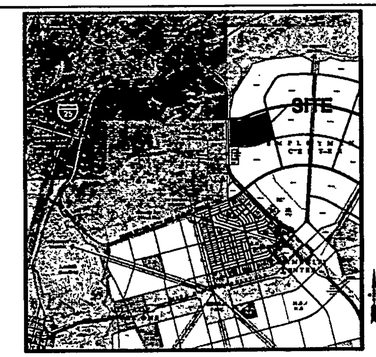
A portion of the regional retention pond was constructed with the development of Building 2 (COA hydro file # R16/D1). This pond will be extended to the north to tie to the storm drain within Ochoa Ave. The extension of the pond increased the pond volume enough to accept the newly developed flows from the road construction as well as an undeveloped offsite basin to the west (See Figure 4 and Table 3 for hydraulic calculations). The offsite drainage north of Ochoa Ave. will be diverted around the site via a series of berms and swales located along north ROW line.

VIII. RESULTS AND RECOMMENDATIONS

This report demonstrates that 100-yr, 6-hour storm event can safely converge to the appropriate retention ponds, and these ponds were sized accordingly. The total volume required to retain the water discharged from each basin is approximately 619,000 cubic feet. The total volume provided by both ponds is approximately 700,000 cubic feet for a difference of about 80,000 cubic feet.

Figures





LOCATION MAP
ZONE ATLAS INDEX MAP R-16

NOTE:
IN THE EVENT TRUCK DOCKS WHICH REQUIRE UNDERGROUND STORM DRAINAGE ARE INTRODUCED IN THE LOTS, A "REDUNDANT" 24" STORM DRAIN HAS BEEN INSTALLED TO ACCEPT THESE FLOWS. THE CAPACITY OF THIS PIPE IS 22.68 CFS WHICH WILL SIMPLY REDUCE FLOW IN THE STREET. THIS PIPE IS NOT NECESSARY TO CONVEY THESE FLOWS, BUT WILL BE INSTALLED AS A MATTER OF FLEXIBILITY TO THESE SITES.

NOTE:
THE OFFSITE BASIN WHICH INCLUDES THE EASTERN HALF OF WATSON DRIVE WILL CONTINUE TO SHEET FLOW ALONG THE EXISTING DISCHARGE PATH AND NOT CONTRIBUTE TO THE REGIONAL RETENTION PONDS SHOWN.

LEGEND

- CONTRIBUTING DRAINAGE AREA BASIN LINE
- DEVELOPED FLOW ARROW
- EXISTING FLOW ARROW
- DIVERSION (SWALE/BERM)
- Q = 52.8cfs DEVELOPED CONDITION FLOW
- PROPOSED STORM DRAIN

AS-BUILT INFORMATION: CONTRACTOR / WORK STAKED BY / AS-BUILTS ACCEPTANCE BY / FIELD VERIFICATION BY / DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION: RECORDED BY — DATE; NO. — DATE
BENCH MARKS
SURVEY INFORMATION: FIELD NOTES — NO. / BY / DATE
ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY BW DATE 03/2007
DRAWN BY BW DATE 03/2007
CHECKED BY JLM DATE 03/2007

Bohannan ▲ Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING • SPATIAL DATA • ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

Mesa del Sol Block One - COA WO #'s 7754.83 & 7754.84
Drainage Area Contributing to Solar Mesa Ave.

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO	ZONE MAP NO	SHEET	OF
	R-16	1	

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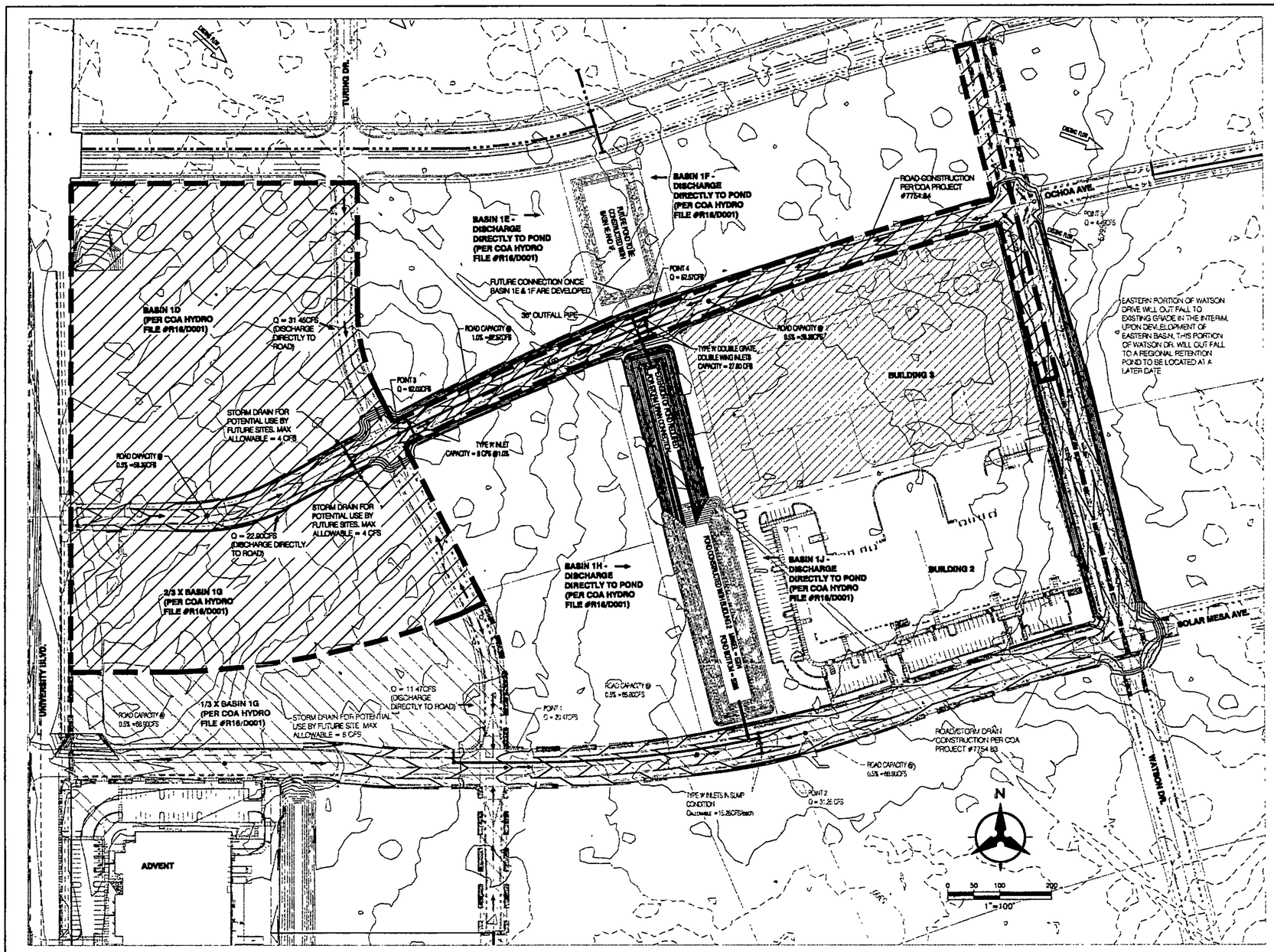

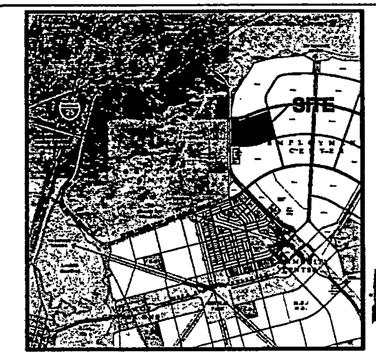

LOCATION MAP

ZONE ATLAS INDEX MAP R-16

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- DEVELOPED FLOW ARROW
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AS-BUILT INFORMATION

	DATE
CONTRACTOR	
WORK STAKED BY	
INSPECTOR'S ACCEPTANCE	
FIELD VERIFICATION BY	
DRAWINGS CORRECTED BY	

MICRO-FILM INFORMATION

	DATE
RECORDED BY	
NO.	

BENCH MARKS

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN	DATE 03/2007	DESIGNED BY BW
	DATE 03/2007	DRAWN BY BW
	DATE 03/2007	CHECKED BY JJM

Bohannan ▲ Huston

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

ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

Mesa del Sol Block One - COA WO #'s 7754.83 & 7754.84
Drainage Area Contributing to Ochoa Ave.

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO	ZONE MAP NO	SHEET	OF
	R-16	2	

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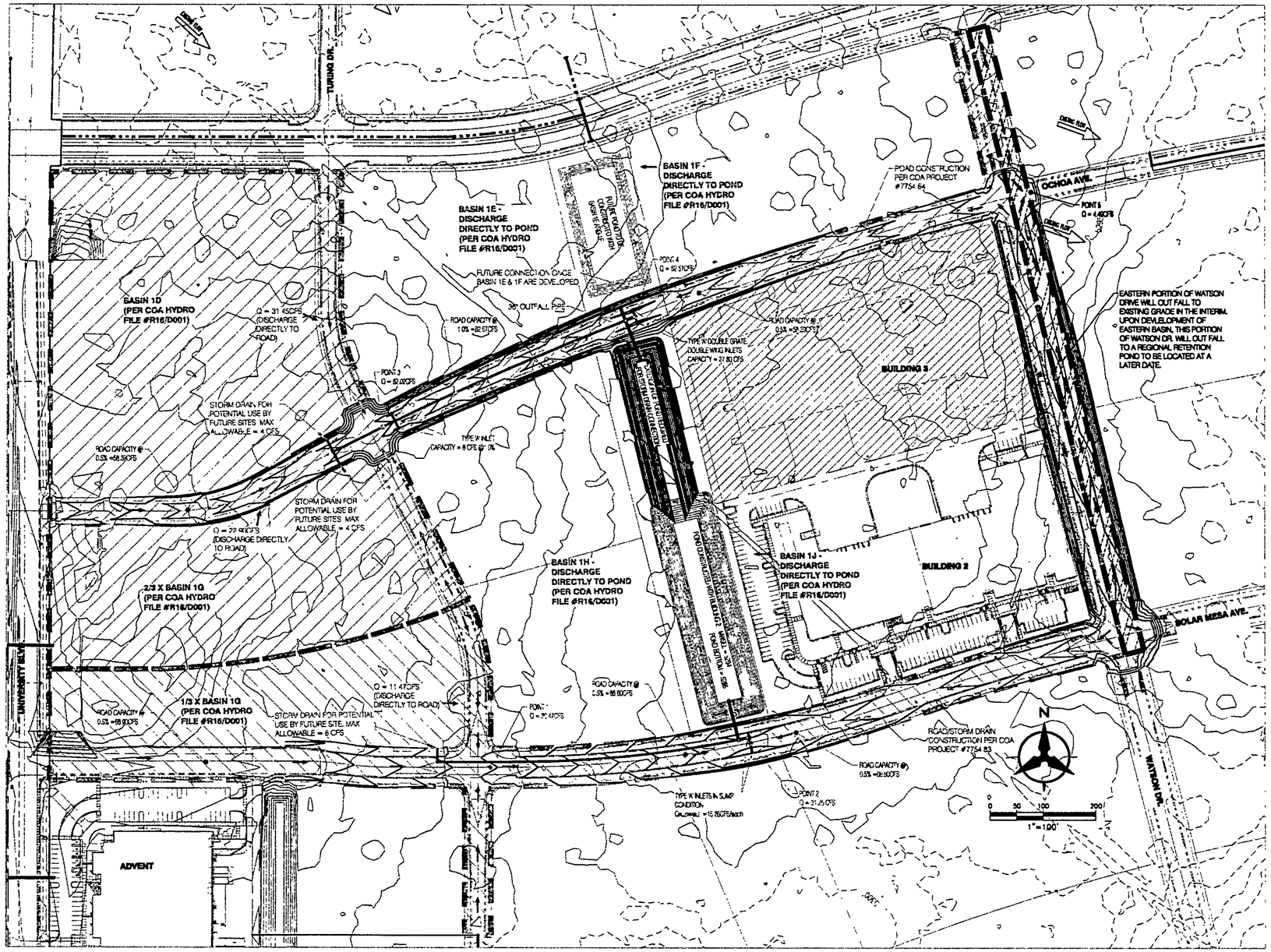

LOCATION MAP
ZONE ATLAS INDEX MAP R-16

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LEGEND

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- DEVELOPED FLOW ARROW
- EXISTING FLOW ARROW
- DIVERSION (SWALE/BERM)
- Q = 52.6cfs DEVELOPED CONDITION FLOW
- PROPOSED STORM DRAIN

AS-BUILT INFORMATION
CONTRACTOR — DATE
STAKED BY — DATE
SUPERVISOR ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO. — DATE

BENCH MARKS

ENGINEER'S SEAL

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY BW DATE 03/2007
DRAWN BY BW DATE 03/2007
CHECKED BY JLM DATE 03/2007

Bohannan ▲ Huston
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Mesa del Sol Block One - COA WO #'s 7754.83 & 7754.84
Drainage Area Contributing to Offsite Drainage to the East

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO	ZONE MAP NO	SHEET	OF
	R-16	3	

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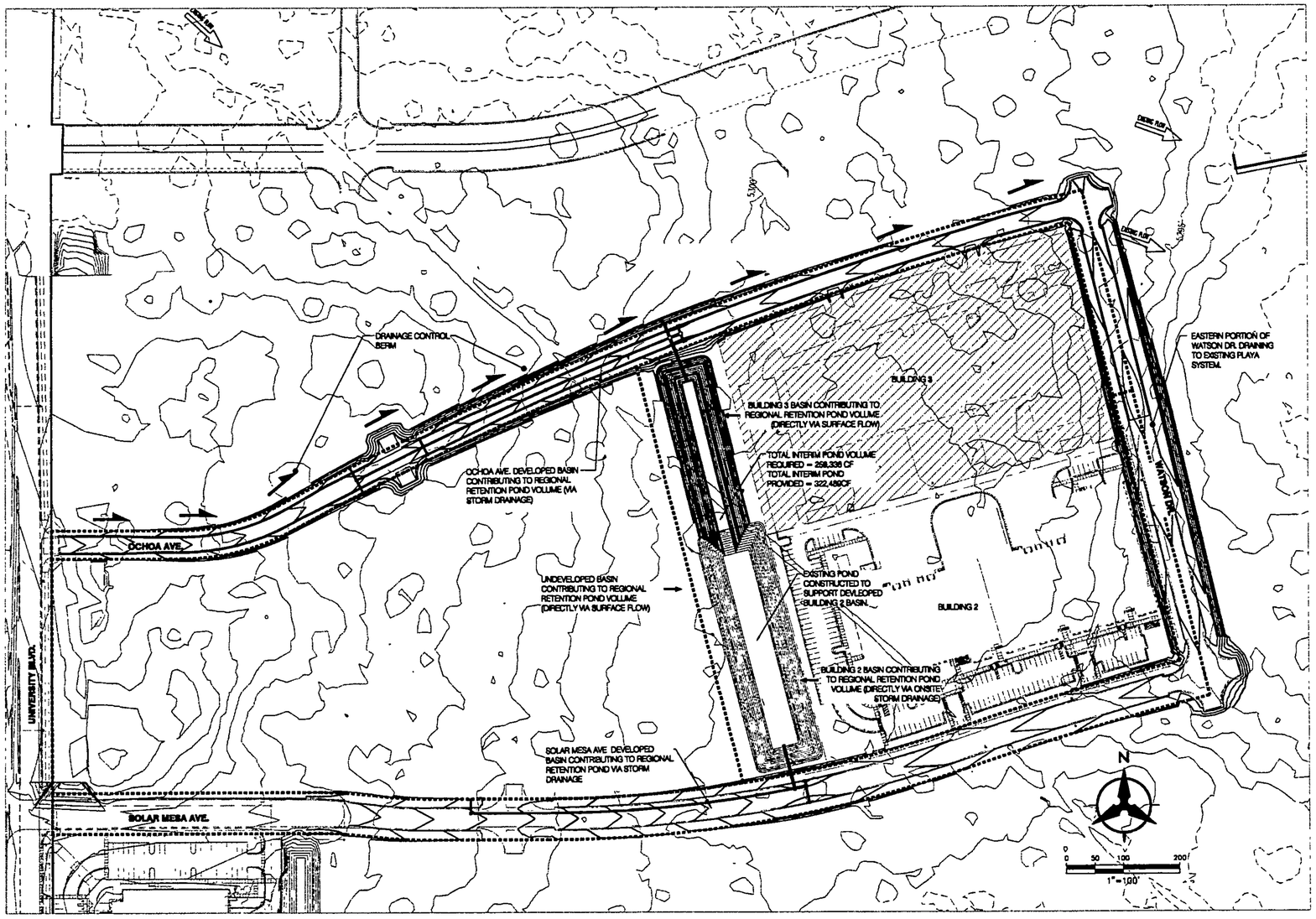
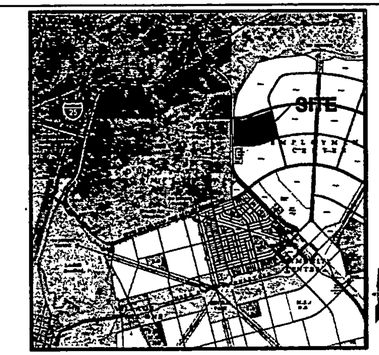
BHI JOB NO 070181





LOCATION MAP
ZONE ATLAS INDEX MAP R-16

NOTE:
ALONG THE NORTH ROW LINE OF OCHOA AVE., A BERM WILL BE CONSTRUCTED IN ORDER TO DIVERT DRAINAGE TO THE EAST AROUND THE SITE AND OUTFALL INTO THE EXISTING PLAYA SYSTEM.

NOTE:
THE EASTERN PORTION OF WATSON DR. WILL DISCHARGE DIRECTLY TO THE EXISTING PLAYA SYSTEM. UPON DEVELOPMENT OF THE EASTERN DRAINAGE AREA, THIS PORTION OF WATSON DR. WILL OUTFALL INTO THE REGIONAL RETENTION POND ASSOCIATED WITH THAT DRAINAGE AREA.

LEGEND

- INTERIM BASIN CONTRIBUTING TO REGIONAL RETENTION POND
- DIVERSION (SWALE/BERM)
- EXISTING FLOW ARROW
- DEVELOPED FLOW ARROW
- PROPOSED STORM DRAIN

AS-BUILT INFORMATION
CONTRACTOR — DATE
STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE

MICRO-FILM INFORMATION
RECORDED BY — DATE
NO. — DATE

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY BW DATE 03/2007
DRAWN BY BW DATE 03/2007
CHECKED BY JLM DATE 03/2007

Bohannan ▲ Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

Mesa del Sol Block One - COA WO #'s 7754.83 & 7754.84
Drainage Area Contributing
Regional Retention Pond - Interim Conditions

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR	MO./DAY/YR

CITY PROJECT NO	ZONE MAP NO	SHEET	OF
	R-16	4	

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Tue, 27-Mar-2007 - 11:38:am, Plotted by: MBALASKOWTS

BHI JOB NO. 070181

Appendix A

Hydraulic Calculations

TABLE 1
Drainage calculations at specific points - Ultimate Conditions.

		This table is based on the DPM Section 22.2, Zone: 2										
BASIN	Area	Area	Land Treatment Percentages				Q(100)	Q(100)	WT E	$V(100)_{360}$	$V(100)_{10day}$	$V(100)_{10day}$
ID	(SQ. FT)	(AC.)	A	B	C	D	(cfs/ac.)	(csf)	(inches)	(CF)	(CF)	(ACFT)
Solar Mesa Ave. /Turing Dr.	87941	2.02	0.0%	10.0%	0.0%	90.0%	4.46	9.00	*1.99*	*14554*	*25107*	*0.58*
1/3 Basin 1G	112121	2.57	0.0%	10.0%	0.0%	90.0%	4.46	11.47	*1.99*	*18556*	*32011*	*0.73*
Total Point 1	200062	4.59						20.47				
Point 1								20.47				
Solar Mesa Ave./Watson Dr.	105306	2.42	0.0%	10.0%	0.0%	90.0%	4.46	10.78	*1.99*	*17428*	*30065*	*0.69*
Total Point 2	305368	7.01						31.25				
Ochoa Ave /Turing Dr.	74497	1.71	0.0%	10.0%	0.0%	90.0%	4.46	7.62	*1.99*	*12329*	*21269*	*0.49*
Adjacent tracts	531546	12.20	0.0%	10.0%	0.0%	90.0%	4.46	54.40	*1.99*	*87971*	*151756*	*3.48*
Total Point 3	606042	13.91						62.02				
Point 3 after inlets (Each inlet takes 8cfs)								46.02				
Ochoa Ave /Watson Dr.	63926	1.47	0.0%	10.0%	0.0%	90.0%	4.46	6.54	*1.99*	*10580*	*18251*	*0.42*
Total Point 4	63926	1.47						52.57				
Eastern Portion of Watson Dr.	43886	1.01	0.0%	10.0%	0.0%	90.0%	4.46	4.49	*1.99*	*7263*	*12529*	*0.29*
Total Point 5	43886	1.01						4.49				

TABLE 2

ANALYSIS OF AN INLET IN A SUMP CONDITION - **Solar Mesa Ave. - SUMP (Single Type 'A')**

INLET TYPE: Single Grate Type "A" with curb opening wings on both sides on inlet.

WEIR: Q=C*L*H^1.5		ORIFICE: Q=C*A*(2*G*H)**0.5	
Wing opening	Grate opeining	Grate opening	Wing opening
C= 3.0	C=3.0	C=0 6	C=0.6
L= 4.0 ft	L(single grate)=[(2.67')+2(1.8')]=6.27 ft	A(single grate)=4.09 sf	A=2.0 sf
Q=3.0(4.0')H**1 5= 12.0H**1.5	Q=3.0(6.27)H^1.5=18.81*H^1.5	Q=2.46*(64.4*H)^0.5	Q=1 2*(64.4*H)^0.5

	WS ELEVATION	HEIGHT ABOVE INLET	Q (CFS) WEIR WING OPENING	Q (CFS) WEIR SINGLE GRATE	Q (CFS) ORIFICE SINGLE GRATE	TOTAL Q (CFS)	COMMENTS:
~FL @ INLET	0.00	0.00	0.00	0.00	0.00	0.00	Flow at single "A" inlet w/ two wing openings
	0.10	0.10	0.38	0.59	6.24	1.35	Weir controls on grate analysis
	0.20	0.20	1.07	1.68	8.82	3.83	
	0.30	0.30	1 97	3.09	10.80	7.03	
	0.40	0.40	3.04	4.76	12.47	10.83	
	0.50	0.50	4.24	6.65	13.94	15.14	
	0.60	0.60	5.58	8.74	15.27	19.90	
TOP OF CURB	0.67	0.67	6.58	10.32	16.14	23.48	Point 2, Q100yr, 6hr =31.25 cfs
	0.70	0.70	7.03	11.02	16 50	25.07	
	0.80	0 80	8.59	13.46	17.64	30.63	
	0.90	0.90	10.25	16.06	18.71	36.55	

ANALYSIS OF AN INLET IN A SUMP CONDITION - **Ochoa Ave - SUMP (Double Type 'A')**

INLET TYPE: Double Grate Type "A" with curb opening wings on both sides on inlet.

WEIR: Q=C*L*H^1 5		ORIFICE: Q=C*A*(2*G*H)**0 5	
Wing opening	Grate opeining	Grate opening	Wing opening
C= 3.0	C=3.0	C=0.6	C=0.6
L= 4.0 ft	L(double grate)=[2(2.67')+2(1.8')]=8.94	A(double grate)=8.19 s	A=2.0 sf
Q=3.0(4.0')H**1 5= 12.0H**1.5	Q=3.0(8.94)H^1.5=26.82*H^1.5	Q=4.194*(64 4*H)^0.5	Q=1 2*(64.4*H)^0.5

	WS ELEVATION	HEIGHT ABOVE INLET	Q (CFS) WEIR "A" OPENING	Q (CFS) WEIR DOUBLE GRATE	Q (CFS) ORIFICE DOUBLE GRATE	TOTAL Q (CFS)	COMMENTS:
~FL @ INLET	0.00	0.00	0.00	0.00	0.00	0.00	Flow at double "A" inlet w/ two wing openings
	0.10	0.10	0.38	0.85	12.47	1.61	Weir controls on grate analysis
	0.20	0 20	1 07	2.40	17.64	4.55	
	0.30	0.30	1.97	4.41	21.60	8.35	
	0.40	0.40	3.04	6.78	24.94	12.86	
	0.50	0.50	4.24	9.48	27.88	17.97	
	0.60	0.60	5.58	12.46	30.55	23.62	
TOP OF CURB	0.67	0.67	6.58	14.71	32.28	27.87	Point 4, Q100yr, 6hr =52 57cfs
	0.70	0.70	7.03	15.71	32.99	29.76	
	0.80	0.80	8.59	19.19	35.27	36.36	
	0 90	0.90	10.25	22.90	37.41	43.39	

TABLE 3
Interim Pond Sizing

		This table is based on the DPM Section 22.2, Zone: 2										
BASIN	Area	Area	Land Treatment Percentages				Q(100)	Q(100)	WT E	$V(100)_{360}$	$V(100)_{10day}$	$V(100)_{10day}$
ID	(SQ. FT)	(AC.)	A	B	C	D	(cfs/ac.)	(csf)	(inches)	(CF)	(CF)	(ACFT)
Ochoa Ave	107814	2.48	0.0%	10.0%	0.0%	90.0%	4.46	11.03	*1.99*	*17843*	*30781*	*0.71*
Solar Mesa	165508	3.80	0.0%	10.0%	0.0%	90.0%	4.46	16.94	*1.99*	*27392*	*47252*	*1.08*
Undeveloped (West)	623734	14.32	50.0%	50.0%	0.0%	0.0%	1.92	27.49	*0.66*	*34045*	*34045*	*0.78*
Building 2	268860	6.17	0.0%	10.0%	0.0%	90.0%	4.46	27.52	*1.99*	*44496*	*76760*	*1.76*
Building 3	246934	5.67	0.0%	10.0%	0.0%	90.0%	4.46	25.27	*1.99*	*40868*	*70500*	*1.62*
TOTAL	*1,412,850*	*32.43*						*108.25*		*164,644*	*259,338*	*5.95*

NOTE: Existing pond constructed with Building 2 has a volume of 212,313

Total Interim Pond Required = *259,338*
Total Interim Pond Provided = 322,489

Mannings Analysis for Solar Mesa Ave. 40' F-F (72' ROW):

Manning's Eqn: Q = 1.49/n x AR^2/3 x S^1/2

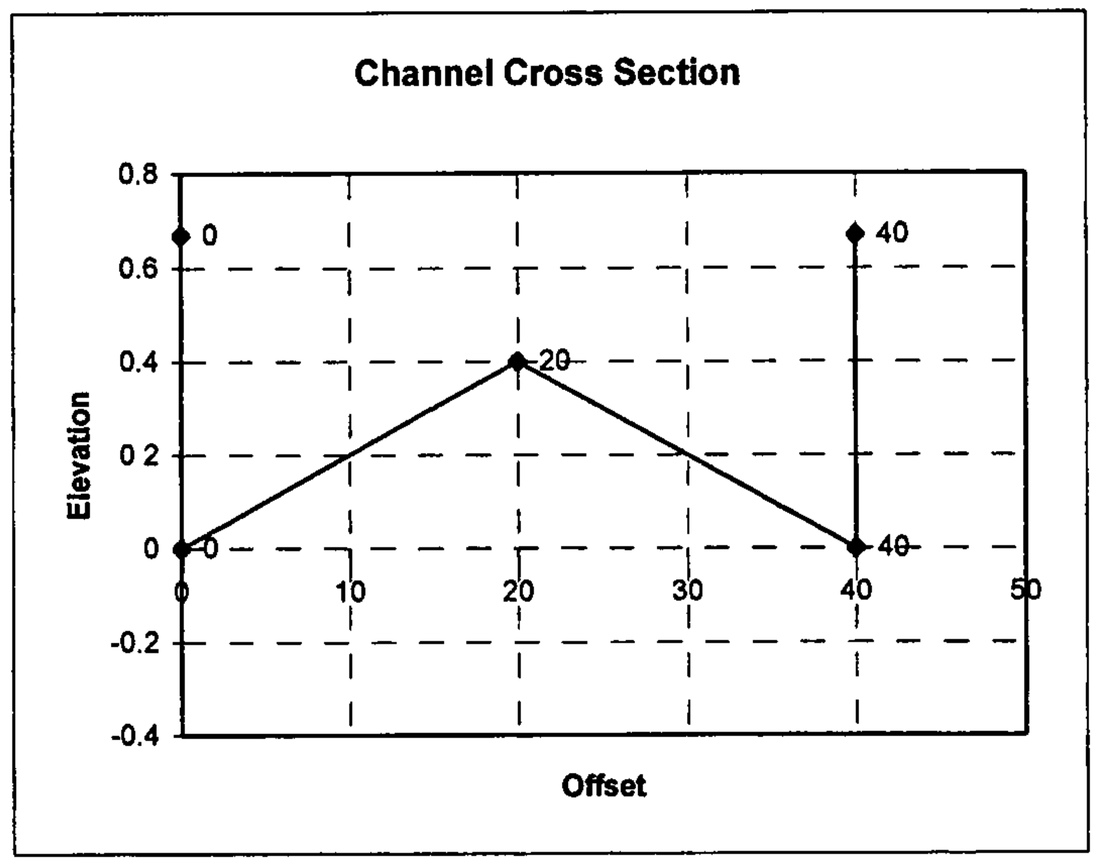
Channel Coordinates - Offset and Elevation

Point #	Offset	Elevation
1	0	0.67
2	0	0
3	20	0.4
4	40	0
5	40	0.67

A	18.8000 sq. ft
WP	41.3400 ft.
R	0.45476536 ft.
Slope	0.5000%
n	0.017

Q= 68.903

V= 3.67



Mannings Analysis for Ochoa Ave. 28' F-F (50' ROW):

Manning's Eqn: Q = 1.49/n x AR^2/3 x S^1/2

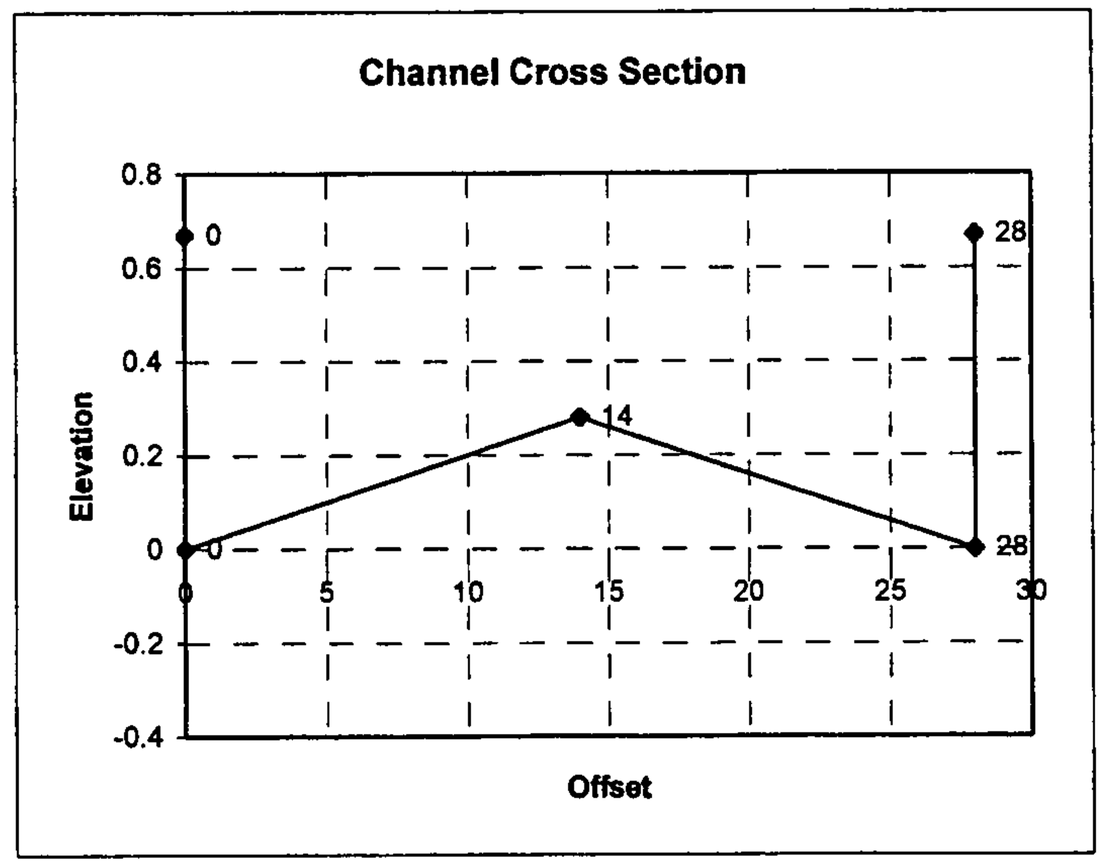
Channel Coordinates - Offset and Elevation

Point #	Offset	Elevation
1	0	0.67
2	0	0
3	14	0.28
4	28	0
5	28	0.67

A	14.8400 sq. ft
WP	29.3400 ft.
R	0.50579414 ft.
Slope	0.5000%
n	0.017

Q= 58.386

V= 3.93



Mannings Analysis for Ochoa Ave. 28' F-F (50' ROW):

Manning's Eqn: Q = 1.49/n x AR^2/3 x S^1/2

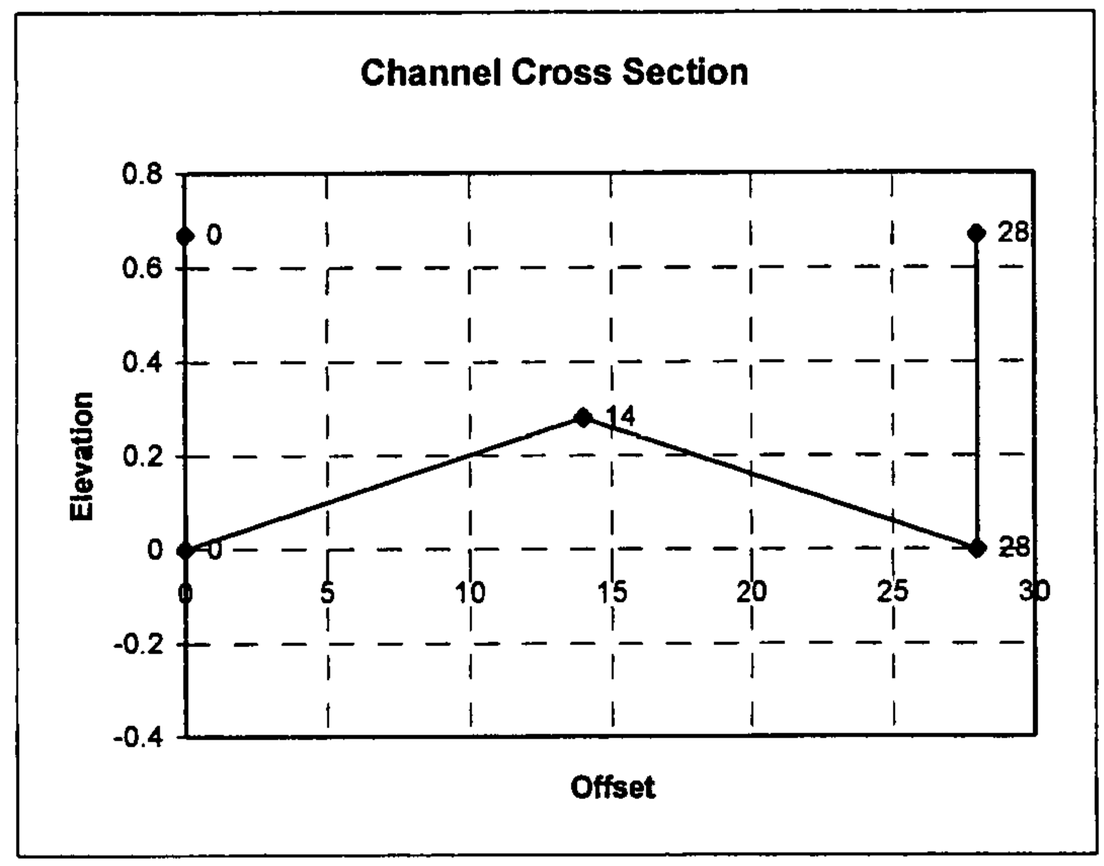
Channel Coordinates - Offset and Elevation

Point #	Offset	Elevation
1	0	0.67
2	0	0
3	14	0.28
4	28	0
5	28	0.67

A	14.8400 sq. ft
WP	29.3400 ft.
R	0.50579414 ft.
Slope	1.0000%
n	0.017

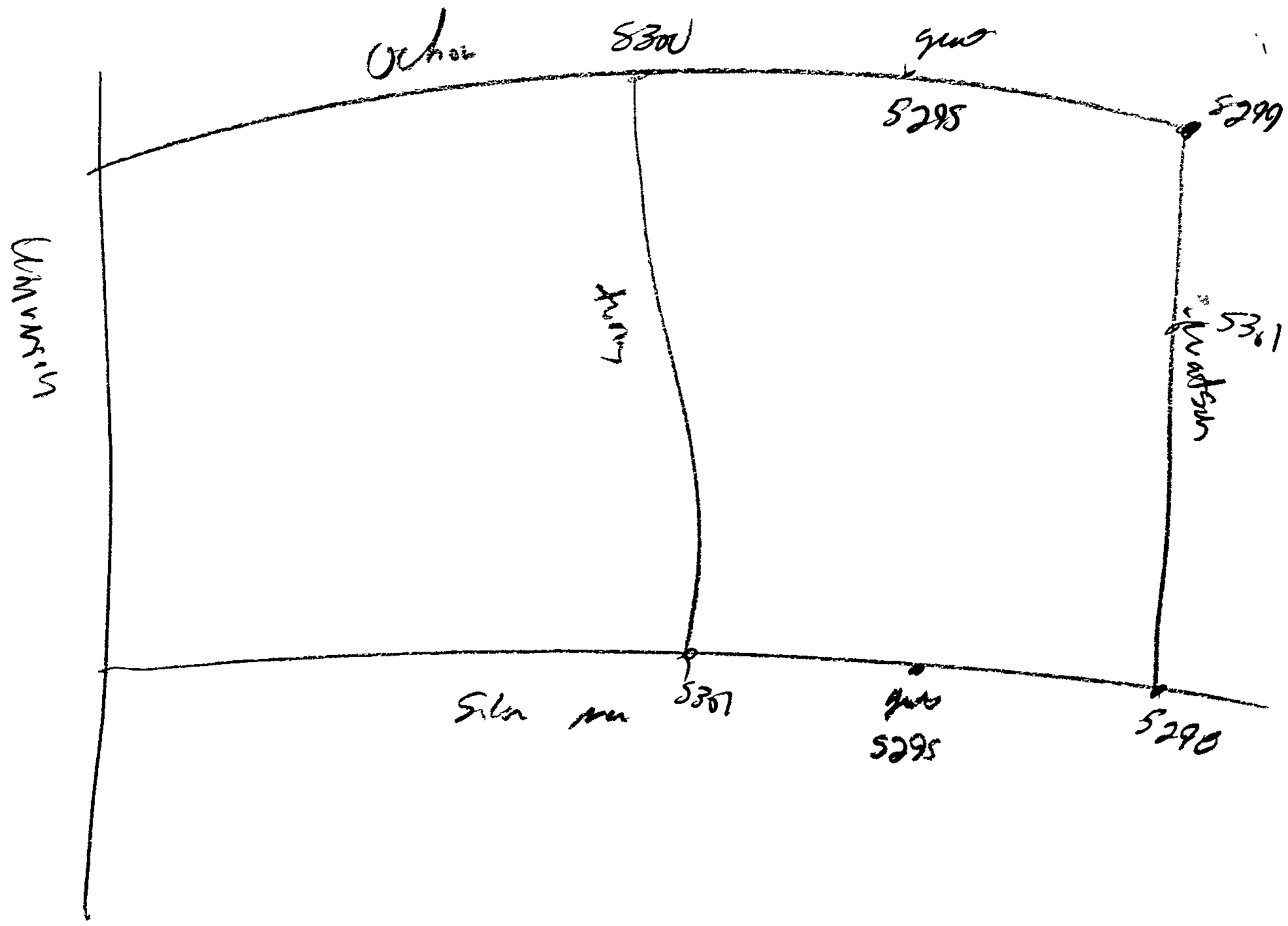
Q= 82.570

V= 5.56



Appendix B

HGL Calculations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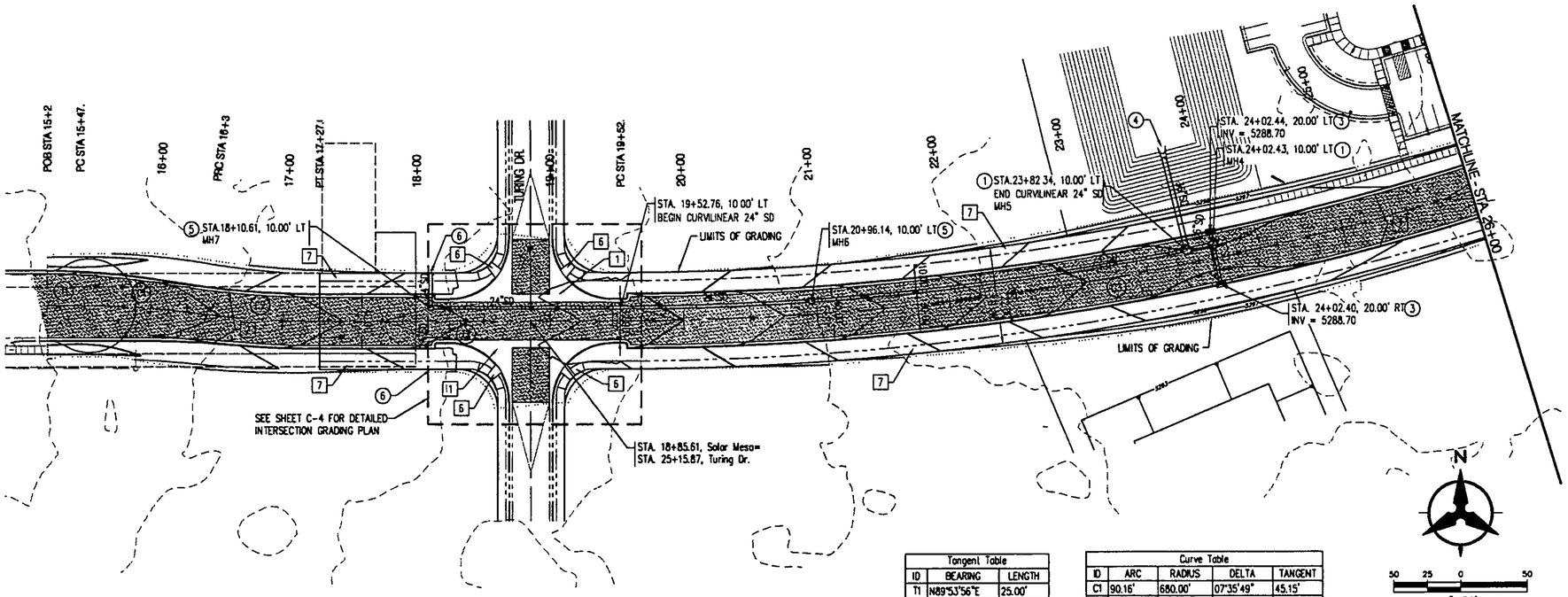
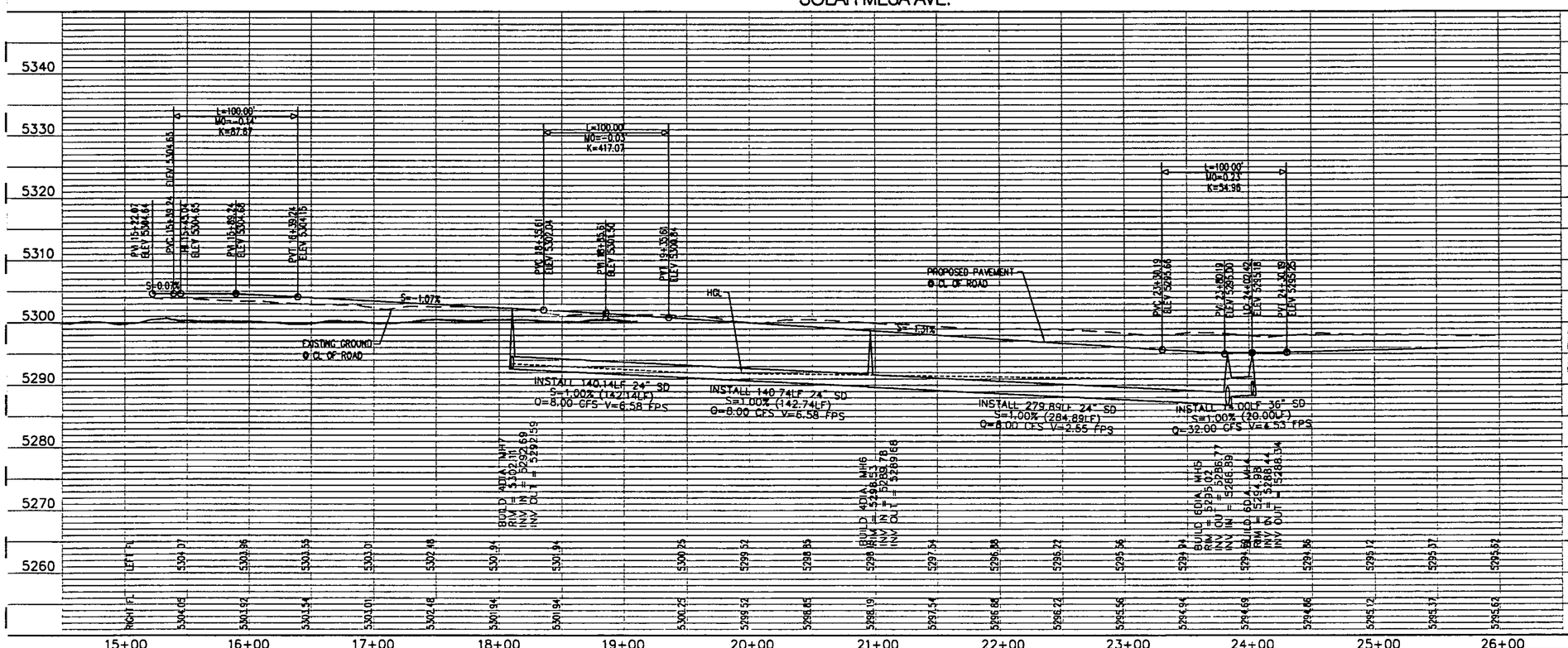


Tangent Table		
ID	BEARING	LENGTH
T1	N89°53'56"E	25.00'
T2	N89°52'45"E	225.12'

Curve Table				
ID	ARC	RADIUS	DELTA	TANGENT
C1	90.16'	680.00'	07°35'49"	45.15'
C2	90.40'	680.00'	07°37'01"	45.27'
C3	730.98'	2200.00'	19°02'15"	368.89'

SOLAR MESA AVE.



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BHI JOB NO.

SCALE. 1"=50' HORIZ
1"=10' VERT.

PAVING KEYED NOTES

1 INSTALL CONCRETE VALLEY GUTTER AS PER STD. DWG. 2420
2 STANDARD CURB & GUTTER AS PER STD. DWG. 2415
3 MEDIAN CURB & GUTTER AS PER STD. DWG. 2415
4 INSTALL CONCRETE CUT-OFF WALL AS PER STD. DWG. 2415
5 INSTALL 4" TEXTURED & COLORED MEDIAN PAVEMENT AT MEDIAN NOSES TO LIMITS SHOWN ON PLANS.
6 INSTALL WHEEL CHAIR RAMP AS PER COA STD DWG 2440.
7 FUTURE 6' CONCRETE SIDEWALK

GRADING KEYED NOTES

1. INSTALL 6' DIA, TYPE "E" MANHOLE PER COA STD DWG 2102.
2. INSTALL TYPE SINGLE "C" INLET PER COA STD DWG 2205.
3. INSTALL TYPE DOUBLE "C" INLET PER COA STD DWG 2205.
4. INSTALL 36" REINFORCED CONCRETE END SECTION.
5. INSTALL 4' DIA, TYPE "E" MANHOLE PER COA STD DWG 2102.
6. CAP STORM DRAIN @ RIGHT OF WAY.
7. CAP 36" PIPE.

GENERAL NOTE:
ALL STORM DRAIN MANHOLES SHALL BE 6' DIAMETER TYPE "E" AS PER STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED.

AS-BUILT INFORMATION

		DATE
CONTRACTOR		
SURVEYED BY		
INSPECTOR'S ACCEPTANCE BY		
VERIFICATION BY		
DRAWINGS CORRECTED BY		

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	DATE

BENCH MARKS

ACS 3-1/4" ALUMINUM CAP RIVETED TO A TUBE SET IN A CONCRETE BASE IN THE GROUND STAMPED "5-0-14, 1987". FROM THE RIO BRAVO BLVD AND BROADWAY INTERSECTION GO SOUTH 0.9 MILES AND PROCEED 123' WEST OF THE CENTERLINE. STATE PLANE COORDINATES (CENTRAL ZONE, NAD83/NAVD88) N=1460471.432, E=1521388.180 (GROUND) ELEVATION=4981.17

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

90% SUBMITTAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY: DATE 03.07
DRAWN BY: DATE 03.07
CHECKED BY: DATE 03.07

Bohannan ▲ Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4385
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

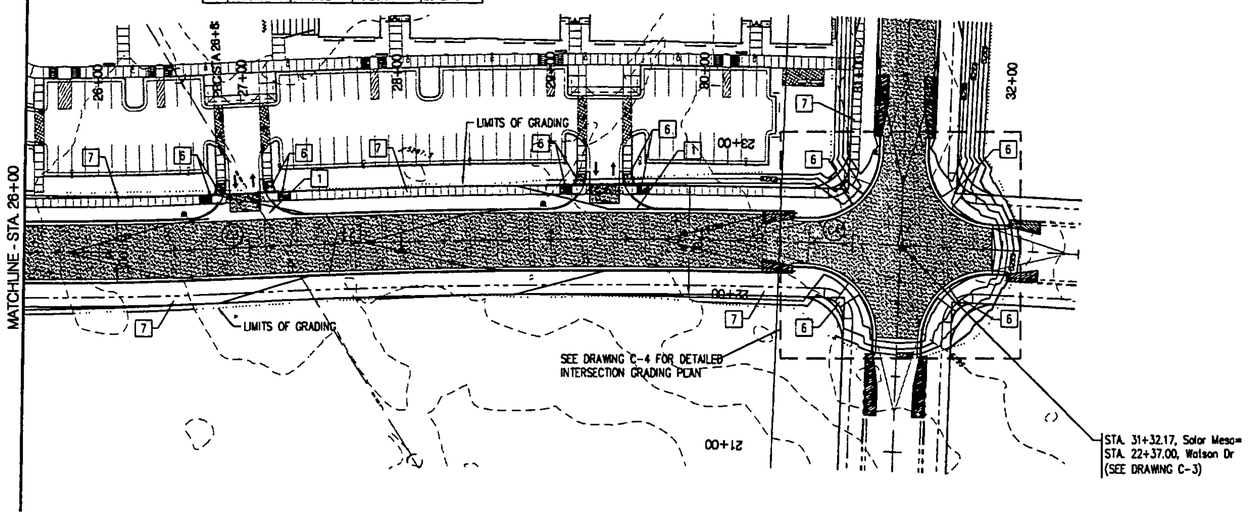
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

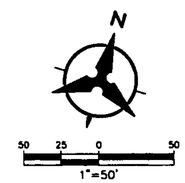
MESA DEL SOL EMPLOYMENT CENTER PHASE II
SOLAR MESA AVE
PLAN & PROFILE STA 15+00 TO STA. 26+00

Design Review Committee	City Engineer Approval	Last Design Update	Mo/Day/Yr	Mo/Day/Yr

City Project No	Zone Map No	Drawing No	Sheet	Of
775483	R-15-R16	C-1	7	16

Curve Table				
ID	ARC	RADIUS	DELTA	TANGENT
C3	730.98'	2200.00'	19°02'15"	368.89'
C4	4335.57'	5035.32'	49°20'01"	2312.45'





PAVING KEYED NOTES

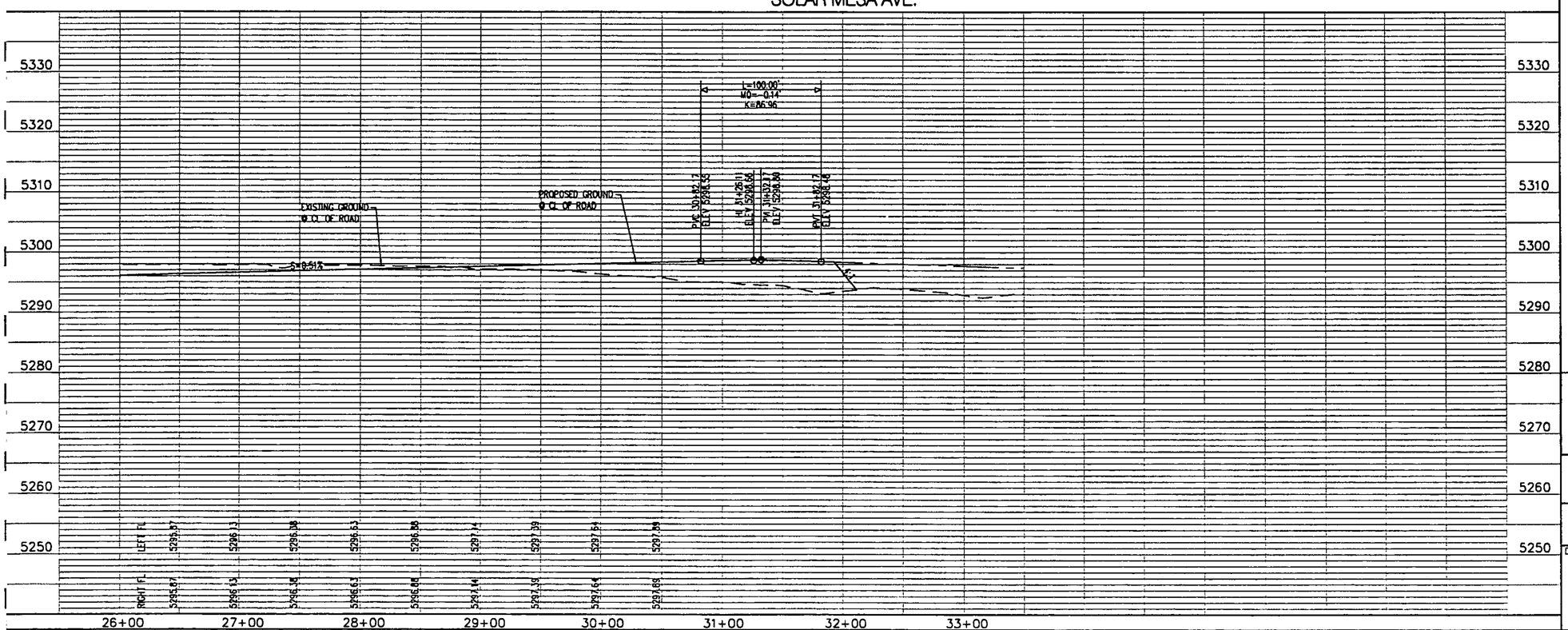
1 INSTALL CONCRETE VALLEY GUTTER AS PER STD. DWG. 2420
2 STANDARD CURB & GUTTER AS PER STD. DWG. 2415
3 MEDIAN CURB & GUTTER AS PER STD. DWG. 2415
4 INSTALL CONCRETE CUT-OFF WALL AS PER STD. DWG. 2415
5 INSTALL 4" TEXTURED & COLORED MEDIAN PAVEMENT AT MEDIAN NOSES TO LIMITS SHOWN ON PLANS.
6 INSTALL WHEEL CHAIR RAMP AS PER COA STD DWG 2440.
7 FUTURE 6' CONCRETE SIDEWALK

GRADING KEYED NOTES

1. INSTALL 6' DIA, TYPE "E" MANHOLE PER COA STD DWG 2102.
2. INSTALL TYPE SINGLE "C" INLET PER COA STD DWG 2205.
3. INSTALL TYPE DOUBLE "C" INLET PER COA STD DWG 2205.
4. INSTALL 36" REINFORCED CONCRETE END SECTION
5. INSTALL 4' DIA, TYPE "E" MANHOLE PER COA STD DWG 2102.
6. CAP STORM DRAIN @ RIGHT OF WAY.
7. CAP 36" PIPE.

GENERAL NOTE:
ALL STORM DRAIN MANHOLES SHALL BE 6' DIAMETER TYPE "E" AS PER STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED.

SOLAR MESA AVE.



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SCALE. 1"=50' HORIZ.
1"=10' VERT.
BHI JOB NO.

Bohannan ▲ Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

MESA DEL SOL EMPLOYMENT CENTER PHASE II
SOLAR MESA AVE
PLAN & PROFILE STA 26+00 TO STA. 32+50

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr	Mo./Day/Yr

City Project No	Zone Map No	Drawing No	Sheet	Of
775483	R-15-R16	C-2	8	16

AS-BUILT INFORMATION
CONTRACTOR / DATE
STAKED BY / DATE
INSPECTOR'S ACCEPTANCE BY / DATE
VERIFICATION BY / DATE
DRAWINGS CORRECTED BY / DATE
MICRO-FILM INFORMATION
RECORDED BY / DATE
NO / DATE

BENCH MARKS
ACS 3-1/4" ALUMINUM CAP RIVETED TO A TUBE SET IN A CONCRETE BASE IN THE GROUND STAMPED "5-Q-14, 1987", FROM THE RIO BRAVO BLVD AND BROADWAY INTERSECTION GO SOUTH 0.9 MILES AND PROCEED 123' WEST OF THE CENTERLINE. STATE PLANE COORDINATES (CENTRAL ZONE, NAD83/NAVD88)
N=1460471.432, E=1521388.180 (GROUND)
ELEVATION=4981.17

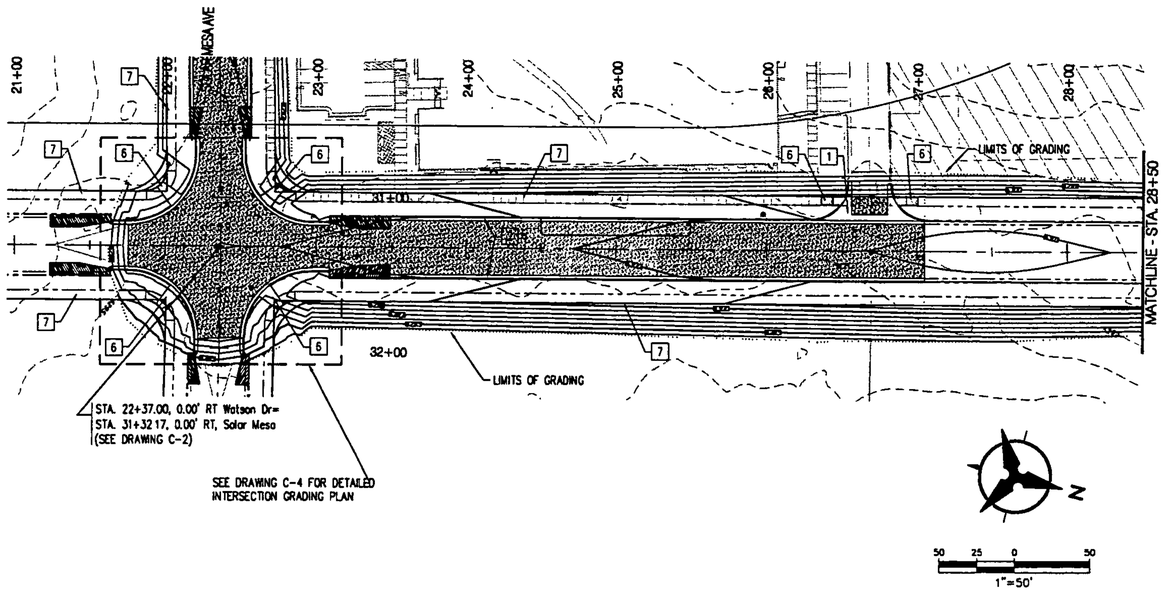
SURVEY INFORMATION
FIELD NOTES
NO. / BY / DATE

ENGINEER'S SEAL

90% SUBMITTAL

NO.	REMARKS	BY	DATE
	REVISIONS		
	DESIGN		

DESIGNED BY: JLM DATE 03.07
DRAWN BY: RB DATE 03.07
CHECKED BY: JLM DATE 03.07



PAVING KEYED NOTES

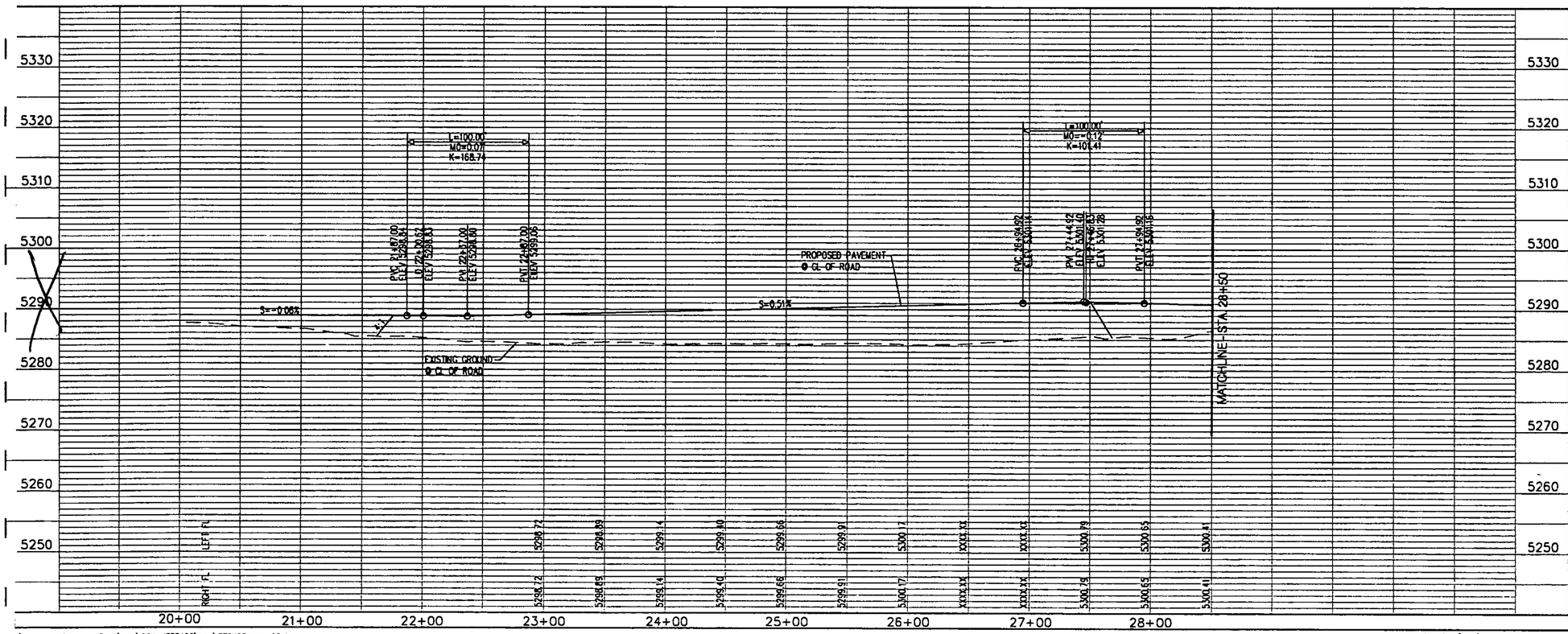
1 INSTALL CONCRETE VALLEY GUTTER AS PER STD. DWG. 2420
2 STANDARD CURB & GUTTER AS PER STD. DWG. 2415
3 MEDIAN CURB & GUTTER AS PER STD. DWG. 2415
4 INSTALL CONCRETE CUT-OFF WALL AS PER STD. DWG. 2415
5 INSTALL 4" TEXTURED & COLORED MEDIAN PAVEMENT AT MEDIAN NOSES TO LIMITS SHOWN ON PLANS.
6 INSTALL WHEEL CHAIR RAMP AS PER COA STD DWG 2440.
7 FUTURE 6' CONCRETE SIDEWALK

GRADING KEYED NOTES

1. INSTALL 6' DIA, TYPE "E" MANHOLE PER COA STD DWG 2102.
2 INSTALL TYPE SINGLE "C" INLET PER COA STD DWG 2205.
3. INSTALL TYPE DOUBLE "C" INLET PER COA STD DWG 2205.
4. INSTALL 36" REINFORCED CONCRETE END SECTION.
5. INSTALL 4' DIA, TYPE "E" MANHOLE PER COA STD DWG 2102.
6. CAP STORM DRAIN @ RIGHT OF WAY
7. CAP 36" PIPE.

GENERAL NOTE:
ALL STORM DRAIN MANHOLES SHALL BE 6' DIAMETER TYPE "E" AS PER STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED.

WATSON DR.



SURVEY INFORMATION		
FIELD NOTES		
NO.	BY	DATE

BENCH MARKS	
ACS 3-1/4" ALUMINUM CAP RIVETED TO A TUBE SET IN A CONCRETE BASE IN THE GROUND STAMPED "5-D-14, 1987", FROM THE RIO BRAVO BLVD AND BROADWAY INTERSECTION GO SOUTH 0.9 MILES AND PROCEED 123' WEST OF THE CENTERLINE. STATE PLANE COORDINATES (CENTRAL ZONE, NAD83/NAVD88) N=1460471.432, E=1521388.180 (GROUND) ELEVATION=4981.17	

AS-BUILT INFORMATION	
CONTRACTOR	DATE
WORK STAKED BY	DATE
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO	DATE

ENGINEER'S SEAL

90% SUBMITTAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY JLM DATE 03.07
DRAWN BY RB DATE 03.07
CHECKED BY JLM DATE XX/20XX

Bohannan ▲ Huston INC.
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

MESA DEL SOL EMPLOYMENT CENTER PHASE II
WATSON DR.
PLAN & PROFILE STA 20+00 TO STA. 28+50

Design Review Committee	City Engineer Approval	Last Design Update	Mo/Day/Yr	Mo/Day/Yr

City Project No.	Zone Map No	Drawing No.	Sheet	Of
775483	R-15-R16	C-3	9	16

SCALE: 1"=50' HORIZ
1"=10' VERT.
BHI JOB NO.

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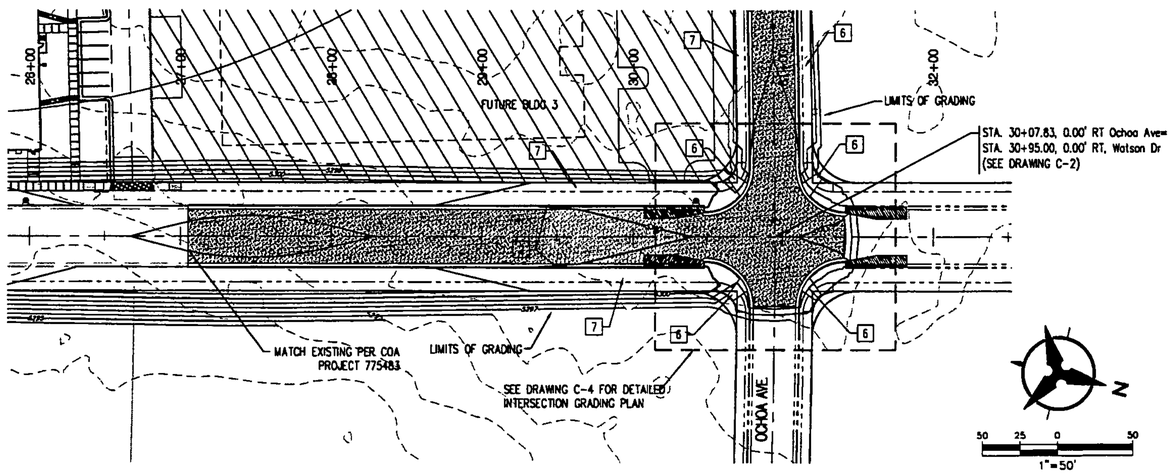
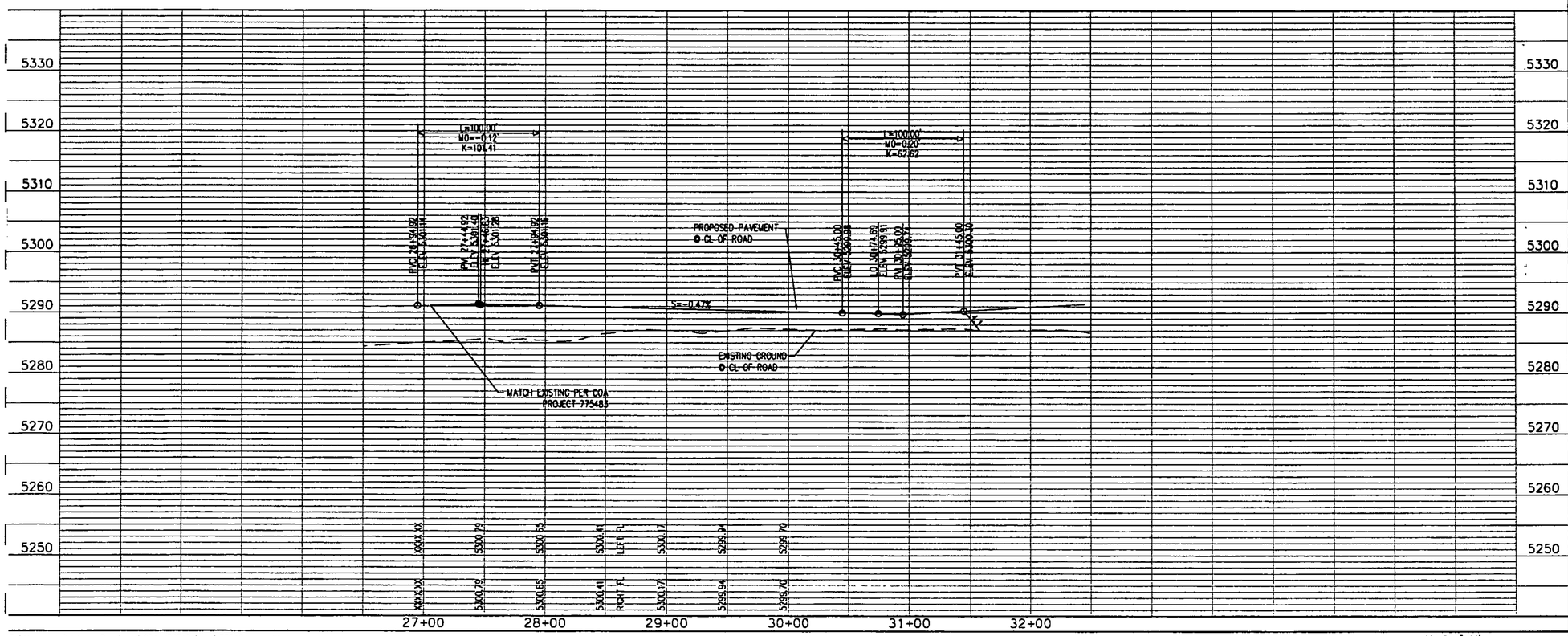


WATSON DR.



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Tue, 27-Mar-2007 - 11:55:am, Plotted by: MBALASKOWTS

SCALE: 1"=50'
BHI JOB NO. 1"=10'

PAVING KEYED NOTES

1 INSTALL CONCRETE VALLEY GUTTER AS PER STD. DWG. 2420
2 STANDARD CURB & GUTTER AS PER STD. DWG. 2415
3 MEDIAN CURB & GUTTER AS PER STD. DWG. 2415
4 INSTALL CONCRETE CUT-OFF WALL AS PER STD. DWG. 2415
5 INSTALL 4" TEXTURED & COLORED MEDIAN PAVEMENT AT MEDIAN NOSES TO LIMITS SHOWN ON PLANS.
6 INSTALL WHEEL CHAIR RAMP AS PER COA STD DWG 2440.
7 FUTURE 6' CONCRETE SIDEWALK

GRADING KEYED NOTES

1. INSTALL 6' DIA, TYPE "E" MANHOLE PER COA STD DWG 2102.
2. INSTALL TYPE SINGLE "C" INLET PER COA STD DWG 2205.
3. INSTALL TYPE DOUBLE "C" INLET PER COA STD DWG 2205
4. INSTALL 36" REINFORCED CONCRETE END SECTION
5. INSTALL 4' DIA, TYPE "E" MANHOLE PER COA STD DWG 2102.
6. CAP STORM DRAIN @ RIGHT OF WAY.
7. CAP 36" PIPE.

GENERAL NOTE:
ALL STORM DRAIN MANHOLES SHALL BE 6' DIAMETER TYPE "E" AS PER STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED.

AS-BUILT INFORMATION
CONTRACTOR — DATE
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO. — DATE

BENCH MARKS
ACS 3-1/4" ALUMINUM CAP RIVETED TO A TUBE SET IN A CONCRETE BASE IN THE GROUND STAMPED "3-Q-14, 1987". FROM THE RIO BRAVO BLVD AND BROADWAY INTERSECTION GO SOUTH 0.9 MILES AND PROCEED 123' WEST OF THE CENTERLINE. STATE PLANE COORDINATES (CENTRAL ZONE, NAD83/NAVD88)
N=1460471.432, E=1521388.180 (GROUND)
ELEVATION=4981.17

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL

90% SUBMITTAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY JLM DATE 03.07
DRAWN BY RB DATE 03.07
CHECKED BY JLM DATE 03.07

Bohannan ▲ Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4386
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

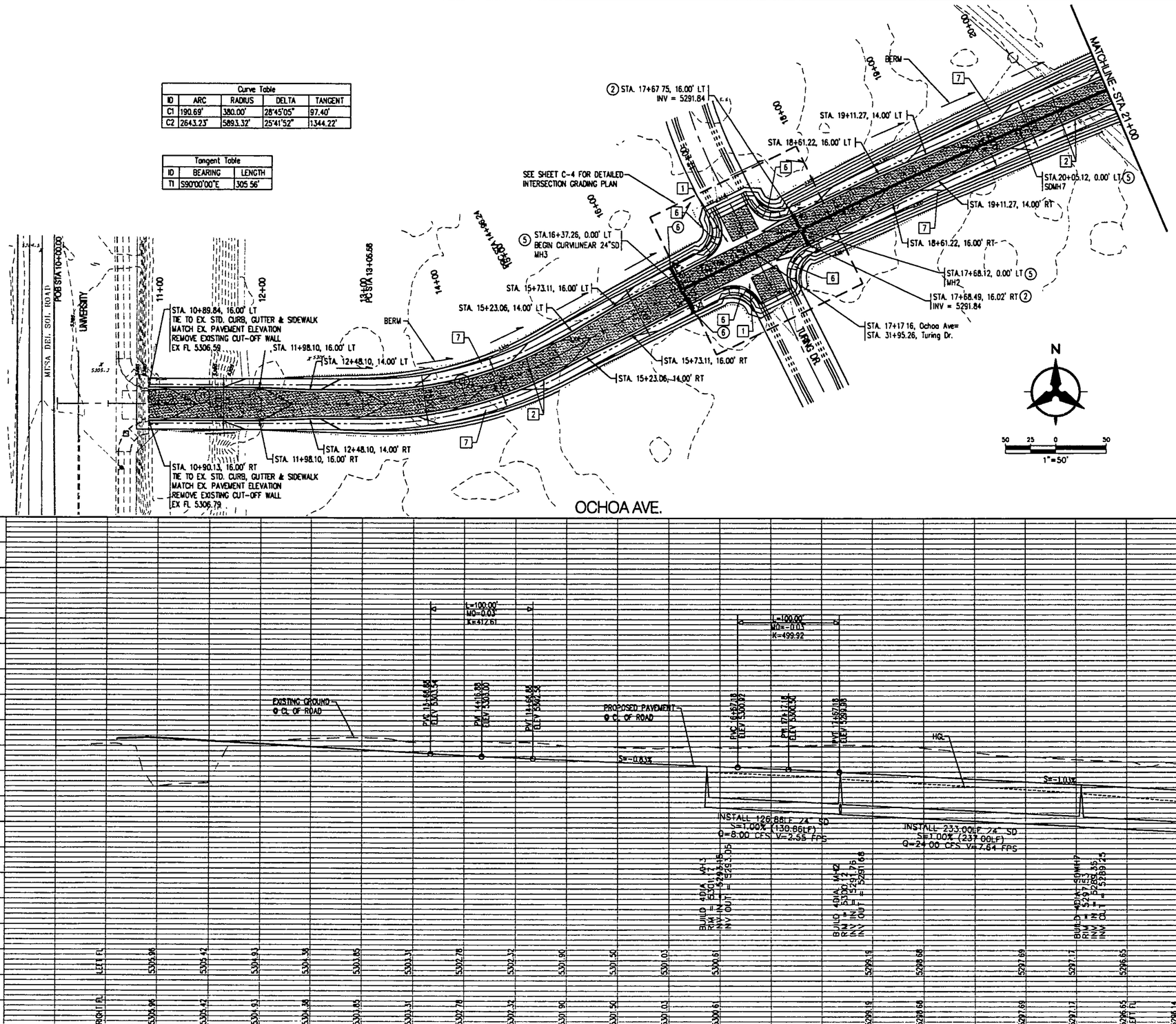
MESA DEL SOL EMPLOYMENT CENTER PHASE II
WATSON DR.
PLAN & PROFILE STA 27+00 TO STA. 32+00

Design Review Committee	City Engineer Approval	Last Design Update	Mo/Day/Yr	Mo/Day/Yr

City Project No	Zone Map No	Drawing No	Sheet	Of
775484	R-15-R16	C-3	8	15

Curve Table				
ID	ARC	RADIUS	DELTA	TANGENT
C1	190.69'	380.00'	28°45'05"	97.40'
C2	2643.23'	5893.32'	25°41'52"	1344.22'

Tangent Table		
ID	BEARING	LENGTH
T1	S90°00'00"E	305.56'



PAVING KEYED NOTES

1 INSTALL CONCRETE VALLEY GUTTER AS PER STD. DWG. 2420
2 STANDARD CURB & GUTTER AS PER STD. DWG. 2415
3 MEDIAN CURB & GUTTER AS PER STD. DWG. 2415
4 INSTALL CONCRETE CUT-OFF WALL AS PER STD. DWG. 2415
5 INSTALL 4" TEXTURED & COLORED MEDIAN PAVEMENT AT MEDIAN NOSES TO LIMITS SHOWN ON PLANS.
6 INSTALL WHEEL CHAIR RAMP AS PER COA STD DWG 2440.
7 FUTURE 6' CONCRETE SIDEWALK

GRADING KEYED NOTES

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2. INSTALL TYPE SINGLE "C" INLET PER COA STD DWG 2205.
3. INSTALL TYPE DOUBLE "C" INLET PER COA STD DWG 2205.
4. INSTALL 36" REINFORCED CONCRETE END SECTION
5. INSTALL 4' DIA, TYPE "E" MANHOLE PER COA STD DWG 2102.
6. CAP STORM DRAIN @ RIGHT OF WAY.
7. CAP 36" PIPE.

GENERAL NOTE:
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AS-BUILT INFORMATION
CONTRACTOR — DATE
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE

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N=1460471.432, E=1521388.180 (GROUND)
ELEVATION=4981.17

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

90% SUBMITTAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY: JLM DATE 03.07
DRAWN BY: RB DATE 03.07
CHECKED BY: JLM DATE 03.07

RECORDED BY — DATE
NO. — DATE

Bohannan ▲ Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

MESA DEL SOL EMPLOYMENT CENTER PHASE II
OCHOA AVE.
PLAN & PROFILE STA 10+00 TO STA 21+00

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr	Mo./Day/Yr

City Project No.	Zone Map No	Drawing No	Sheet	Of
775484	R-15-R16	C-1	6	15

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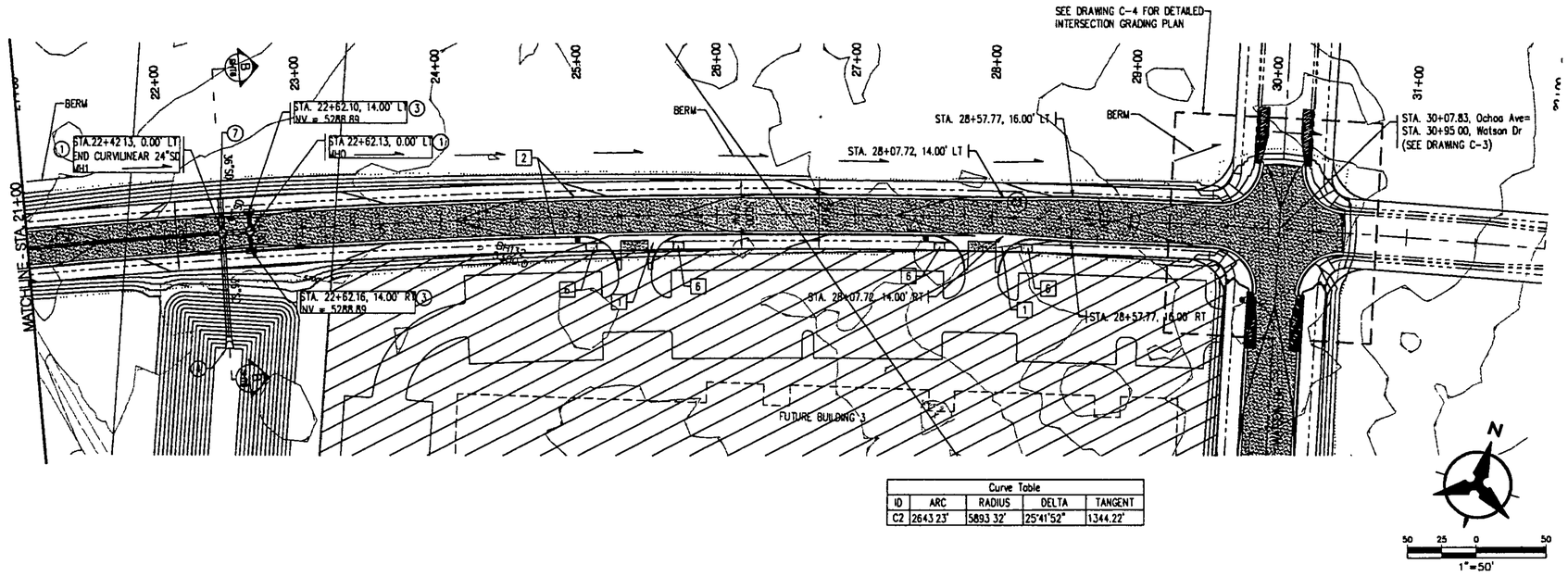
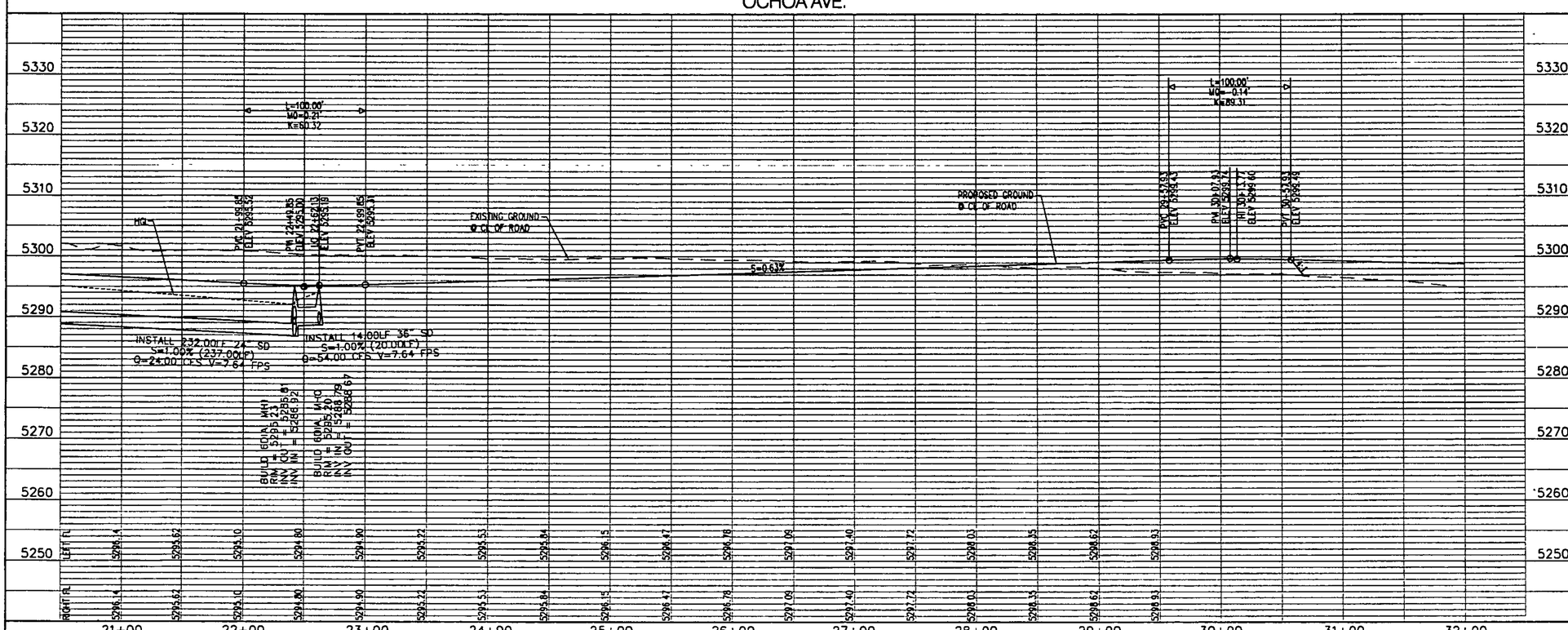
SCALE: 1"=50'
BHI JOB NO. 1"=10'



Curve Table				
ID	ARC	RADIUS	DELTA	TANGENT
C2	2643.23'	5893.32'	25°41'52"	1344.22'

OCHOA AVE.



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SCALE: 1"=50' 1"=10'
BHI JOB NO.

PAVING KEYED NOTES

1 INSTALL CONCRETE VALLEY GUTTER AS PER STD. DWG. 2420
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AS-BUILT INFORMATION
CONTRACTOR WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWING CORRECTED BY — DATE

MICRO-FILM INFORMATION
RECORDED BY — DATE
NO. — DATE

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N=1460471.432, E=1521388.160 (GROUND)
ELEVATION=4981.17

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

90% SUBMITTAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY: JLM DATE 03.07
DRAWN BY: RB DATE 03.07
CHECKED BY: JLM DATE 03.07

Bohannan ▲ Huston
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

MESA DEL SOL EMPLOYMENT CENTER PHASE II
OCHOA AVE.
PLAN & PROFILE STA 21+00 TO STA. 32+00

Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr | Mo./Day/Yr

City Project No.	Zone Map No	Drawing No.	Sheet	Of
775484	R-15-R16	C-2	7	15

Appendix C

Mesa del Sol Employment Center - Block 1

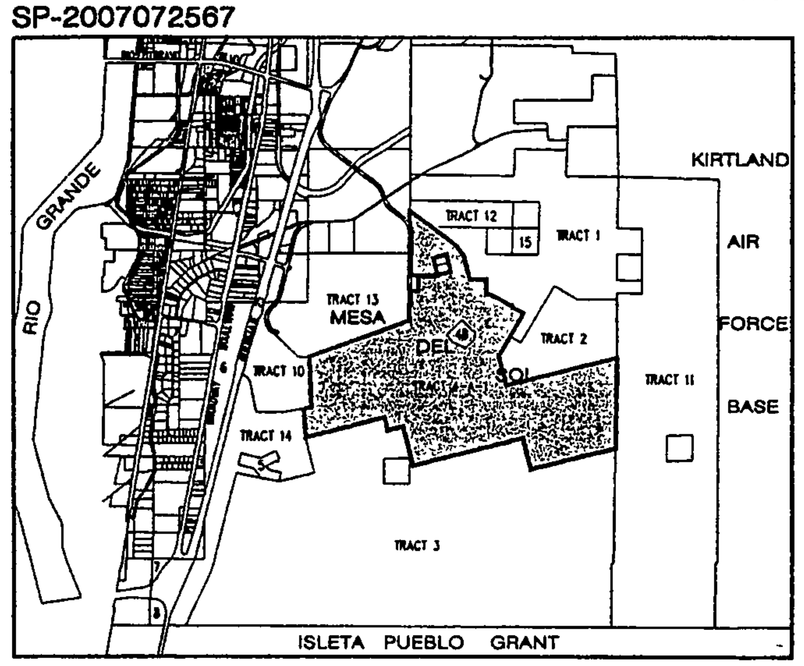
Drainage Management Plan

Appendix D

Bulk Land Plat (Draft)

Edison Ridge at Mesa del Sol

SP-2007072567



LOCATION MAP

ZONE ATLAS INDEX MAP Nos. Q-16, R-15, R-16, R-17, S-14, S-15, S-16, S-17, T-16, T-17

NOT TO SCALE

DISCLOSURE STATEMENT

The purpose of this Plat is to subdivide all of Tract 4-B of the Plat of Mesa Del Sol Tracts 4-A, 4-B and 4-C, Albuquerque, New Mexico as the same is shown and designated on the plat thereof, filed in the Office of the County Clerk of Bernalillo County, New Mexico on June 22, 2006 in Book 2006C, page 197 as Document No. 2006092610 together withall of Tract 4-A-1 of the Plat of Mesa Del Sol Tracts 4-A-1, 4-A-2 & 4-A-3, Albuquerque, New Mexico as the same is shown and designated on the plat thereof, filed in the Office of the County Clerk of Bernalillo County, New Mexico on _____ in Book 2007C, page _____ as Document No. _____ into thirty-one (31) tracts, to dedicate public street right-of-way to the City of Albuquerque, to grant easements and to vacate easements.

LANDFILL DISCLOSURE STATEMENT

The subject property is located near or is a former landfill site. Due to the subject property being on or near a former landfill, certain precautionary measures may need to be taken to ensure the hearth and safety of the public. Recommendations made by a professional engineer with expertise in landfills and landfill gas issues (as required by the most current version of the "Interim Guidelines for Development within 1000 feet of Landfills") shall be consulted prior to development of the site.

PUBLIC UTILITY EASEMENTS

PUBLIC UTILITY EASEMENTS shown on this plat are for the common joint use of:

A. PNM Electric Services for the installation, maintenance and service of underground electrical lines, transformers, and other equipment, fixtures, structures, and related facilities reasonably necessary to provide electrical service.

B. PNM Gas services for installation, maintenance, and service of natural gas lines, valves and other equipment and facilities reasonably necessary to provide natural gas.

C. QWEST for the installation, maintenance, and service of all buried communication lines and other related equipment and facilities reasonably necessary to provide communication services, including but not limited to above ground pedestals and closures.

D. Comcast Cable for the installation, maintenance, and service of such lines, cable, and other related equipment and facilities reasonably necessary to provide Cable TV service.

E. Time Warner for the installation, maintenance, and service of all buried communication lines and other related equipment and facilities and cable and other related equipment and facilities reasonably necessary to provide communication services and cable TV service including but not limited to above ground pedestals and closures.

Included is the right to build, rebuild, construct, reconstruct, locate, relocate, change, remove, modify, renew, operate, and maintain facilities for the purposes described above, together with free access to, from, and over said easements, including sufficient working area space for electric transformers, with the right and privilege to trim and remove trees, shrubs or bushes which interfere with the purposes set forth herein. No building, sign, pool, (above ground or subsurface), hot tub, concrete or wood pool decking, or other structure shall be erected or constructed on said easements, nor shall any well be drilled or operated thereon. Property owners shall be solely responsible for correcting any violations of National Electric Safety Code caused by construction of pools, decking, or any structures adjacent to or near easements shown on this plat.

Easements for electric transformers/switchgears, as installed shall extend ten feet (10) in front of transformer/switchgear doors and five feet (5) on each side.

DESCRIPTION

A certain tract of land being a portion of Sections 15, 21, 22, 23, 26, 27, 28, 29, 34 and 35, Township 9 North, Range 3 East, New Mexico Principal Meridian, Bernalillo County, New Mexico, being and comprising all of Tract 4-B of the Plat of Mesa Del Sol Tracts 4-A, 4-B and 4-C, Albuquerque, New Mexico as the same is shown and designated on the plat thereof, filed in the Office of the County Clerk of Bernalillo County, New Mexico on June 22, 2006 in Book 2006C, page 197 as Document No. 2006092610 together with all of Tract 4-A-1 of the Plat of Mesa Del Sol Tracts 4-A-1, 4-A-2 & 4-A-3, Albuquerque, New Mexico as the same is shown and designated on the plat thereof, filed in the Office of the County Clerk of Bernalillo County, New Mexico on _____ in Book 2007C, page _____ as Document No. _____

Tract contains 2270.5622 acres, more or less.

SUBDIVISION DATA

1. DRB No.
2. Zone Atlas Index Nos. Q-16, R-15, R-16, R-17, S-14, S-15, S-16, S-17, T-16 and T-17.
3. Zoning: PC.
3. Gross Subdivision Acreage: 2242.3745 Acres.
4. Total number of tracts Created: Thirty (30) Tracts.
5. Total mileage of full width public street right-of-way created: 5.132 Miles.
6. Date of Survey: February, 2007.
7. Plat is located within Sections 15, 21, 22, 23, 26, 27, 28, 29, 34 and 35, Township 9 North, Range 3 East, New Mexico Principal Meridian, Bernalillo County, New Mexico.

NOTICE OF SUBDIVISION PLAT CONDITIONS

PURSUANT TO SECTION 7 OF THE CITY OF ALBUQUERQUE, NEW MEXICO SUBDIVISION ORDINANCE, A VARIANCE OR WAIVER FROM CERTAIN SUBDIVISION REQUIREMENTS HAS BEEN GRANTED BY THE CITY AND THE ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY IN CONNECTION WITH THIS PLAT.

FUTURE SUBDIVISION OF LANDS WITHIN THIS PLAT, ZONING SITE DEVELOPMENT PLAN APPROVALS, AND DEVELOPMENT PERMITS MAY BE CONDITIONED UPON DEDICATION OF RIGHTS-OF-WAY AND EASEMENTS, AND/OR UPON INFRASTRUCTURE IMPROVEMENTS BY THE OWNER FOR WATER, SANITARY SEWER, STREETS, DRAINAGE, GRADING AND PARKS IN ACCORDANCE WITH CURRENT RESOLUTIONS, ORDINANCES AND POLICIES IN EFFECT AT THE TIME FOR ANY SPECIFIC PROPOSAL.

THE CITY (AND AMAFCA WITH REFERENCE TO DRAINAGE) MAY REQUIRE AND/OR PERMIT EASEMENTS TO BE ADDED, MODIFIED, OR REMOVED WHEN FUTURE PLATS AND/OR SITE DEVELOPMENT PLANS ARE APPROVED.

BY ITS APPROVAL OF THIS SUBDIVISION THE CITY MAKES NO REPRESENTATION OR WARRANTIES AS TO AVAILABILITY OF UTILITIES, OR FINAL APPROVAL OF ALL REQUIREMENTS INCLUDING (BUT NOT LIMITED TO) THE FOLLOWING ITEMS:

1. WATER AND SANITARY SEWER AVAILABILITY.
2. FUTURE STREET DEDICATIONS AND/OR IMPROVEMENTS.
3. PARK AND OPEN SPACE REQUIREMENTS.
4. DRAINAGE REQUIREMENTS AND/OR IMPROVEMENTS.
5. EXCAVATION, FILLING OR GRADING REQUIREMENTS.

ANY PERSON INTENDING DEVELOPMENT OF LANDS WITHIN SUBJECT SUBDIVISION IS CAUTIONED TO INVESTIGATE THE STATUS OF THESE ITEMS.

AT SUCH TIME AS ALL SUCH CONDITIONS HAVE BEEN SATISFACTORILY MET, THE CITY ENGINEER SHALL APPROVE A RECORDABLE DOCUMENT, REMOVING SUCH CONDITIONS FROM ALL OR FROM A PORTION OF THE AREA WITHIN THE SUBJECT SUBDIVISION.

NOTES

1. Bearings are New Mexico State Plane Grid Bearings (Central Zone) NAD 1927 and the basis of bearings is the Plat of Mesa Del Sol, Tracts 4-A-1, 4-A-2 and 4-A-3, Albuquerque, New Mexico, filed on _____ in Book 2007C, Page ____ as Document No. _____.
2. Record Bearings and distances are the same as shown on this plat and the same as shown on the Plat of Mesa Del Sol, Tracts 4-A-1, 4-A-2 and 4-A-3, Albuquerque, New Mexico, filed on _____ in Book 2007C, Page ____ as Document No. _____
3. Distances are ground distances.
4. All easements of record are shown.
5. The location of pipeline, powerline, and communication line easements and/or right-of-ways shown hereon were plotted from the granting documents in conjunction with field ties of existing infrastructure.
6. All easements shown hereon were provided by Fidelity National Title included in the Condition of Title Report No. _____ dated _____. Other documents not of public record in the Bernalillo County Clerk's were provided by the State Land Office as shown hereon.
7. Centerline monumentation to be installed at installed at centerline PC's, PT's, angle points and street intersections prior to acceptance of subdivision street improvements and will consist of a standard 3-1/4" aluminum alloy cap stamped "CITY OF ALBUQUERQUE", "CENTERLINE MONUMENTATION", "SURVEY MARKER", "DO NOT DISTURB", "PLS 16469".
8. All interior tract corners to be monumented by a #5 rebar and yellow plastic survey cap stamped "GROMATZKY PS 16469".
9. All streets are public, to be dedicated to the City of Albuquerque with the filing of this plat.
10. Tracts OS-1 thru OS-4 are private open space, owned and maintained by Mesa Del Sol, LLC or its assignees and excepting Tract OS-4, are subject to a public pedestrian access and public drainage easement granted with the filing of this plat. These tracts are for the use and benefit of Tracts 1 thru 24 inclusive.
11. Maintenance of public drainage easement and public pedestrian access easement is the responsibility of Mesa Del Sol, LLC.
12. Tracts 1, 5 & OS-4 may be subject to a slope easement per pending unfiled Right-of-Way Maps for University Boulevard prepared in March, 2005. Slope Easements were agreed to, but not defined in the Stipulated Partial Judgment and Road Agreement filed in the Office of the County clerk of Bernalillo County, New Mexico on April 7, 1998 in Book 9808, page 518.

FREE CONSENT AND DEDICATION

The foregoing plat of that certain tract of land situate within Sections 15, 21, 22, 23, 26, 27, 28, 29, 34 and 35, Township 9 North, Range 3 East, New Mexico Principal Meridian, Bernalillo County, New Mexico, being and comprising all of Tract 4-B of the Plat of Mesa Del Sol Tracts 4-A, 4-B and 4-C, Albuquerque, New Mexico as the same is shown and designated on the plat thereof, filed in the Office of the County Clerk of Bernalillo County, New Mexico on June 22, 2006 in Book 2006C, page 197 as Document No. 2006092610 together withall of Tract 4-A-1 of the Plat of Mesa Del Sol Tracts 4-A-1, 4-A-2 & 4-A-3, Albuquerque, New Mexico as the same is shown and designated on the plat thereof, filed in the Office of the County Clerk of Bernalillo County, New Mexico on _____ in Book 2007C, page ____ as Document No. _____, now comprising Tracts 1 thru 26 inclusive, Tract A, and Tracts OS-1 thru OS-4 inclusive, Bulk Land Plat For Edison Fields at Mesa Del Sol, Albuquerque, New Mexico is with the free consent and in accordance with the desires of the undersigned owner(s) and/or proprietor(s) thereof. Said owner(s) and/or proprietor(s) do hereby dedicate all streets and public rights-of-way as shown hereon to the City of Albuquerque in fee simple with warranty covenants and do hereby grant: All Access, Utility and Drainage Easements shown hereon including the right to construct, operate, inspect, and maintain facilities therein; and all Public Utility Easements shown hereon for the common and joint use of Gas, Electrical Power, and Communication Services for buried distribution lines, conduits, and pipes for underground utilities where shown or indicated, including the right of ingress and egress for construction and maintenance, and the right to trim interfering trees and shrubs. The City has the right to enter upon the Grantees Property at any time and perform whatever inspection, installation, maintenance, repair, modification or removal ("Work") it deems appropriate without liability to the City. If the Work effects any improvements or Encroachments made by the Grantee, the City will not be financially or otherwise responsible for rebuilding or repairing of improvements or encroachments. If in the opinion of the City, the Work to be performed by the City could endanger the structural integrity or otherwise damage the improvements or encroachments, the Grantee shall, at its own expense, take whatever protective measures are required to safeguard the improvements or encroachments. Said owner warrants that he holds complete and indefeasible title in fee simple to the land subdivided. Said owner(s) and/or proprietor(s) do hereby consent to all of the foregoing and do hereby certify that this subdivision is their free act and deed.

MESA DEL SOL, LLC, a New Mexico Limited Liability Company
By: FC Covington Manager, LLC, a New Mexico Limited Liability Company, Member
By: FC Mesa, Inc., a New Mexico Corporation, Member

BY: _____
Michael D. Daly
Chief Operating Officer

State of New Mexico)
SS
County of Bernalillo)

This instrument was acknowledged before me on _____ day of _____ 2007, by Michael D. Daly, Chief Operating Officer of FC Mesa, Inc., a New Mexico Corporation, as Member of FC Covington Manager, LLC, a New Mexico Limited Liability Company, as Member of Mesa Del Sol, LLC, a New Mexico Limited Liability Company.

My Commission Expires: _____ _____
Notary Public

JURISDICTIONAL AFFIDAVIT

I, Robert Gromatzky, a registered Professional New Mexico Surveyor, hereby affirm that the property described does lie within the platting and subdivision jurisdiction of the City of Albuquerque.

_____
Robert Gromatzky
New Mexico Professional Surveyor 16469

Date: February 27, 2007

SURVEYOR'S CERTIFICATION

I, Robert Gromatzky, a registered Professional New Mexico Surveyor, certify that I am responsible for this survey and that this plat was prepared by me or under my supervision, shows all easements of record, and conforms to the Minimum Requirements of the Board of Registration for Professional Engineers and Professional Surveyors in October, 2000 and meets the minimum requirements for monumentation and surveys contained in the Albuquerque Subdivision Ordinance, and is true and accurate to the best of my knowledge and belief.

_____
Robert Gromatzky
New Mexico Professional Surveyor 16469

Date: February 27, 2007

ROBERT GROMATZKY
NEW MEXICO
16469
LICENSED PROFESSIONAL SURVEYOR

BULK LAND PLAT FOR

EDISON RIDGE AT MESA DEL SOL

(A REPLAT OF TRACTS 4-A-1 & 4-B, MESA DEL SOL)

ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO
MARCH, 2007

PROJECT NUMBER _____

APPLICATION NUMBER _____

PLAT APPROVAL

QWEST TELECOMMUNICATIONS	DATE
COMCAST CABLE	DATE
PNM ELECTRIC SERVICES	DATE
PNM GAS SERVICES	DATE
TIME WARNER	DATE
CITY APPROVALS:	
CITY SURVEYOR	DATE
TRAFFIC ENGINEERING, TRANSPORTATION DIVISION	DATE
UTILITY DEVELOPMENT DEPARTMENT	DATE
PARKS & RECREATION DEPARTMENT	DATE
A.M.A.F.C.A.	DATE
CITY ENGINEER	DATE
DRB CHAIRPERSON, PLANNING DEPARTMENT	DATE
ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY	DATE
REAL PROPERTY DIVISION	DATE
ENVIRONMENTAL HEALTH DEPARTMENT	DATE

TAX CERTIFICATION

THIS IS TO CERTIFY THAT TAXES ARE CURRENT AND PAID ON UPC #

_____

PROPERTY OWNER OF RECORD _____

BERNALILLO COUNTY TREASURER'S OFFICE	DATE

In approving this plat, PNM Electric Services and Gas Services (PNM) did not conduct a Title Search of the properties shown hereon. Consequently, PNM does not waive nor release any easement or easement rights to which it may be entitled.

Bohannan ▲ Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

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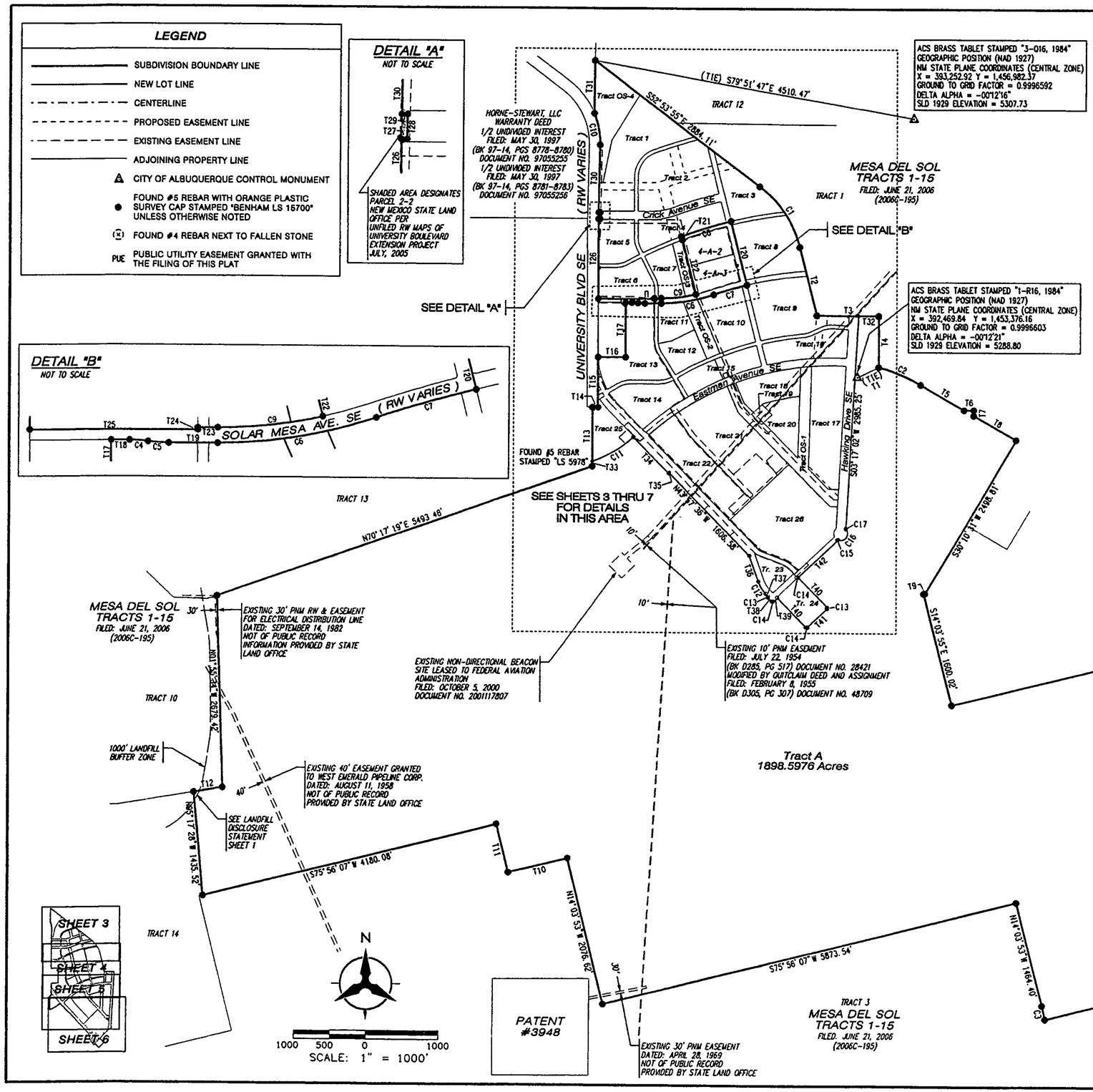
ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO
MARCH, 2007



Curve Data						
ID	DELTA	TANGENT	ARC	RADIUS	CHORD	CHORD BRG
C1	38°50'02"	535.78'	1030.23'	1520.00'	1010.62'	S33°28'54"E
C2	15°07'15"	320.29'	636.86'	2413.20'	635.02'	S67°23'06"E
C3	04°17'24"	95.28'	190.48'	2544.00'	190.43'	N11°55'11"W
C4	07°37'01"	42.87'	85.61'	644.00'	85.55'	S86°18'45"E
C5	07°37'01"	47.66'	95.19'	716.00'	95.12'	S86°18'45"E
C6	19°02'15"	374.93'	742.94'	2236.00'	739.53'	N80°21'38"E
C7	05°30'55"	240.80'	481.23'	4999.32'	481.04'	N73°35'58"E
C8	07°01'56"	363.65'	726.38'	5918.32'	725.93'	S72°46'37"W
C9	12°53'21"	244.44'	486.81'	2164.00'	485.78'	S83°26'05"W
C10	23°45'17"	226.73'	446.94'	1078.00'	443.74'	N10°53'13"W
C11	20°54'50"	339.89'	672.22'	1841.64'	668.50'	N59°06'38"E
C12	25°00'00"	100.65'	198.09'	454.00'	196.53'	S31°27'36"E
C13	90°00'00"	14.00'	21.99'	14.00'	19.80'	S01°02'24"W
C14	90°00'00"	14.00'	21.99'	14.00'	19.80'	S88°57'36"E
C15	60°18'11"	8.13'	14.73'	14.00'	14.06'	N76°11'29"E
C16	145°50'28"	309.20'	241.81'	95.00'	181.62'	N33°25'21"E
C17	42°46'55"	5.48'	10.45'	14.00'	10.21'	N18°06'26"W

NOTE: TABLES ARE FOR THIS SHEET ONLY

Tangent Data		
ID	BEARING	DISTANCE
T1	S64°05'21"W	328.32'
T2	S14°03'53"E	982.93'
T3	S89°38'06"E	854.93'
T4	S00°02'06"E	716.21'
T5	S59°49'29"E	694.35'
T6	S89°47'27"E	135.42'
T7	S00°00'22"E	78.25'
T8	S59°49'29"E	680.37'
T9	S75°56'04"W	17.45'
T10	S75°56'07"W	830.46'
T11	N14°03'53"W	683.98'
T12	N80°27'33"E	401.10'
T13	N00°07'15"W	831.77'
T14	S89°47'27"E	78.00'
T15	N00°07'15"W	701.63'
T16	N89°52'45"E	382.00'
T17	N00°07'15"W	764.01'
T18	N89°52'45"E	86.76'
T19	N89°52'45"E	225.12'
T20	N14°03'20"W	919.02'
T21	S20°44'21"E	50.00'
T22	S14°03'20"E	785.43'
T23	S89°52'45"W	92.14'
T24	S00°07'12"E	10.00'
T25	S89°52'45"W	782.00'
T26	N00°07'15"W	1115.70'
T27	S89°28'45"E	19.75'
T28	N00°59'25"E	86.76'
T29	N89°00'35"W	20.00'
T30	N00°59'25"E	946.23'
T31	N00°27'38"E	732.42'
T32	N89°38'06"W	279.61'
T33	N00°07'15"W	69.15'
T34	N43°57'36"W	705.24'
T35	S46°02'24"W	12.00'
T36	N18°57'36"W	386.79'
T37	N43°57'36"W	46.00'
T38	N43°57'36"W	80.00'
T39	S46°02'24"W	78.00'
T40	N43°57'36"W	565.00'
T41	S46°02'24"W	372.00'
T42	S46°02'24"W	770.32'

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

ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

SHEET 2 OF 7

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JOB NO 070181

BULK LAND PLAT FOR
EDISON RIDGE AT MESA DEL SOL

(A REPLAT OF TRACTS 4-A-1 & 4-B, MESA DEL SOL)

ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO
MARCH, 2007

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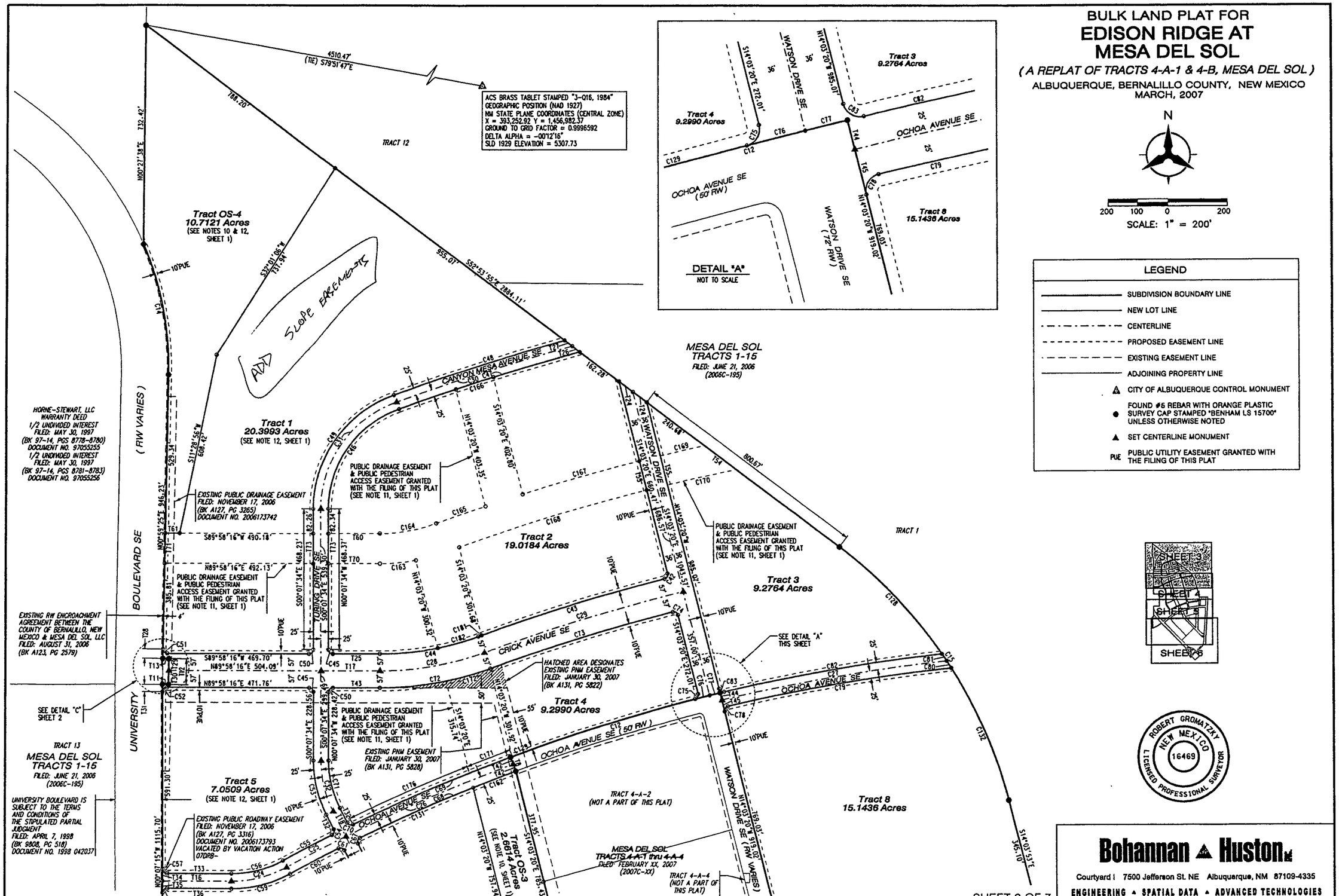
SCALE: 1" = 200'



LEGEND

- SUBDIVISION BOUNDARY LINE
- NEW LOT LINE
- CENTERLINE
- PROPOSED EASEMENT LINE
- EXISTING EASEMENT LINE
- ADJOINING PROPERTY LINE
- CITY OF ALBUQUERQUE CONTROL MONUMENT
- FOUND #5 REBAR WITH ORANGE PLASTIC SURVEY CAP STAMPED "BENHAM LS 15700" UNLESS OTHERWISE NOTED
- SET CENTERLINE MONUMENT
- PUE — PUBLIC UTILITY EASEMENT GRANTED WITH THE FILING OF THIS PLAT

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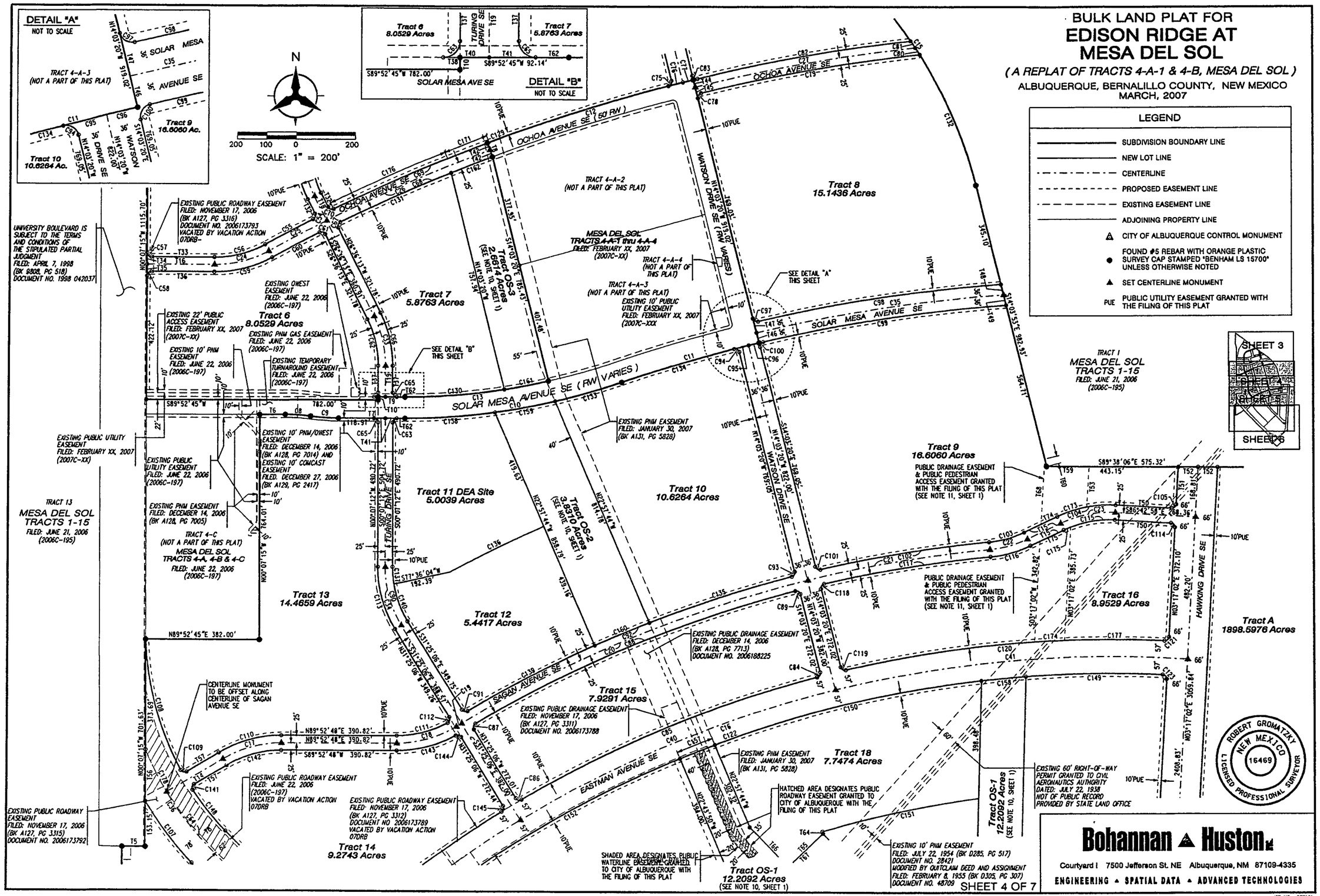

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SHEET 4 OF 7

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MARCH, 2007

N

200 100 0 200
SCALE: 1" = 200'

SHEET 3
SHEET 4
SHEET 5
SHEET 6

SAGAN AVENUE SE
EASTMAN AVENUE SE
UNIVERSITY BOULEVARD SE
HAWKING DRIVE SE

Tract 15
7.9291 Acres

Tract 14
9.2743 Acres

Tract 18
7.7474 Acres

TRACT 19
PNM SUBSTATION
0.9183 Acres

Tract 20
6.2353 Acres

Tract 17
16.8252 Acres

Tract 25
6.4638 Acres

Tract 21
25.5254 Acres

Tract 22
15.8242 Acres

Tract OS-1
12.2092 Acres
(SEE NOTE 10, SHEET 1)

Tract A
1898.5976 Acres

TRACT 4-B

Tract 26
Albuquerque Studios
28.2756 Acres

TRACT 13
MESA DEL SOL
TRACTS 1-15
FILED: JUNE 21, 2006
(2006C-195)

CENTERLINE MONUMENT TO BE OFFSET ALONG CENTERLINE OF SAGAN AVENUE SE

EXISTING PUBLIC ROADWAY EASEMENT FILED: NOVEMBER 17, 2006 (BK A127, PG 3315) DOCUMENT NO. 2006173792

EXISTING PUBLIC ROADWAY EASEMENT FILED: NOVEMBER 17, 2006 (BK A127, PG 3314) DOCUMENT NO. 2006173791

EXISTING PUBLIC ROADWAY EASEMENT FILED. JUNE 22, 2006 (2006C-197) VACATED BY VACATION ACTION 07DRB

EXISTING PUBLIC ROADWAY EASEMENT FILED: NOVEMBER 17, 2006 (BK A127, PG 3312) DOCUMENT NO. 2006173789 VACATED BY VACATION ACTION 07DRB

EXISTING PUBLIC DRAINAGE EASEMENT FILED: DECEMBER 14, 2006 (BK A128, PG 7711) DOCUMENT NO. 2006188223

EXISTING PUBLIC DRAINAGE EASEMENT FILED: DECEMBER 14, 2006 (BK A128, PG 7713) DOCUMENT NO. 2006188225

EXISTING PUBLIC DRAINAGE EASEMENT FILED: NOVEMBER 17, 2006 (BK A127, PG 3311) DOCUMENT NO. 2006173788

EXISTING PRIVATE ACCESS EASEMENT GRANTED TO PACIFICA MESA STUDIOS, LLC FILED: JULY 7, 2006 (BK A120, PG 645) DOCUMENT NO. 2006100929 VACATED BY VACATION ACTION 07DRB-

EXISTING 10' PNM/QWEST EASEMENT FILED: DECEMBER 14, 2006 (BK A128, PG 7014) AND EXISTING 10' COMCAST EASEMENT FILED: DECEMBER 27, 2006 (BK A129, PG 2417)

EXISTING PNM EASEMENT FILED: JANUARY 30, 2007 (BK A131, PG 5828)

HATCHED AREA DESIGNATES PUBLIC ROADWAY EASEMENT GRANTED TO CITY OF ALBUQUERQUE WITH THE FILING OF THIS PLAT

20' PUBLIC UTILITY EASEMENT GRANTED TO PNM WITH THE FILING OF THIS PLAT

TRACT 19 IS SUBJECT TO AN EXISTING PNM EASEMENT FILED: JANUARY 30, 2007 (BK A131, PG 5821)

SHADED AREA DESIGNATES PUBLIC WATERLINE EASEMENT GRANTED TO CITY OF ALBUQUERQUE WITH THE FILING OF THIS PLAT

HATCHED AREA DESIGNATES PUBLIC ROADWAY EASEMENT GRANTED TO CITY OF ALBUQUERQUE WITH THE FILING OF THIS PLAT

EXISTING STORM WATER DETENTION PONDS EASEMENT FILED: JULY 7, 2006 (BK A120, PG 639)

CENTERLINE MONUMENT TO BE OFFSET ALONG CENTERLINE OF EASTMAN AVENUE SE

EXISTING PUBLIC DRAINAGE EASEMENT FILED: NOVEMBER 17, 2006 (BK A127, PG 3313) DOCUMENT NO. 2006173790 VACATED BY VACATION ACTION 07DRB-

EXISTING PRIVATE ACCESS EASEMENT GRANTED TO PACIFICA MESA STUDIOS, LLC FILED: JULY 7, 2006 (BK A120, PG 645) DOCUMENT NO. 2006100929

FOUND #5 REBAR STAMPED "LS 5978"

HATCHED AREA DESIGNATES EXISTING PUBLIC ROADWAY EASEMENT FILED: JUNE 22, 2006 (2006C-197) VACATED BY VACATION ACTION 07DRB-

EXISTING 30' COMCAST EASEMENT FILED: DECEMBER 27, 2006 (BK A129, PG 2417)

EXISTING DRAINAGE EASEMENT FILED: JULY 7, 2006 (BK A120, PG 639) VACATED BY VACATION ACTION 07DRB

30' PUBLIC WATERLINE EASEMENT GRANTED TO CITY OF ALBUQUERQUE WITH THE FILING OF THIS PLAT

EXISTING TEMPORARY CONSTRUCTION EASEMENT FILED: JULY 7, 2006 (BK A120, PG 646)

40' PUBLIC UTILITY EASEMENT GRANTED TO PNM WITH THE FILING OF THIS PLAT

EXISTING 60' RIGHT-OF-WAY PERMIT GRANTED TO CIVIL AERONAUTICS AUTHORITY DATED: JULY 22, 1938 NOT OF PUBLIC RECORD PROVIDED BY STATE LAND OFFICE

EXISTING STORM WATER DETENTION PONDS EASEMENT FILED: JULY 7, 2006 (BK A120, PG 639)

EXISTING PNM/QWEST EASEMENT FILED: DECEMBER 14, 2006 (BK A128, PG 7014) AND EXISTING COMCAST EASEMENT FILED: DECEMBER 27, 2006 (BK A129, PG 2417)

EXISTING PUBLIC PEDESTRIAN ACCESS EASEMENT FILED: JUNE 6, 2006 (BK A119, PG 2350) VACATED BY VACATION ACTION 07DRB-

EXISTING PUBLIC DRAINAGE EASEMENT FILED: NOVEMBER 17, 2006 (BK A127, PG 3321) DOCUMENT NO. 2006173798 VACATED BY VACATION ACTION 07DRB-

EXISTING 10' PNM EASEMENT FILED: JULY 22, 1954 (BK D285, PG 517) DOCUMENT NO 28421 MODIFIED BY QUITCLAIM DEED AND ASSIGNMENT FILED: FEBRUARY 8, 1955 (BK D305, PG 307) DOCUMENT NO. 48709

SEE DETAIL "A" SHEET 6

LEGEND

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- NEW LOT LINE
- CENTERLINE
- PROPOSED EASEMENT LINE
- EXISTING EASEMENT LINE
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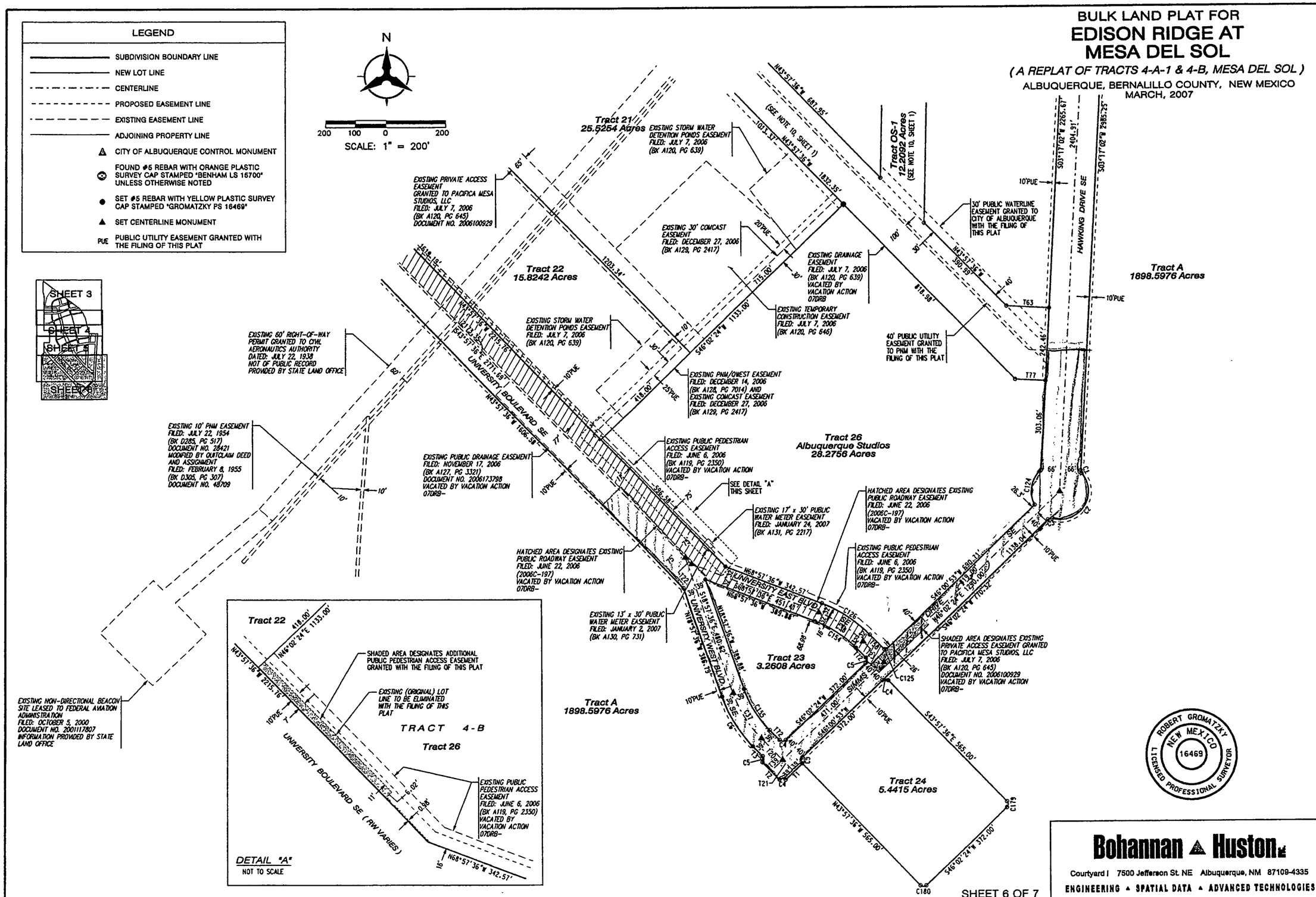

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SHEET 6 OF 7

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ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO
MARCH, 2007

Curve Data

ID	DELTA	TANGENT	ARC	RADIUS	CHORD	CHORD BRG
C1	42°46'55"	5.48'	10.45'	14.00'	10.21'	S18°06'26"E
C2	145°50'28"	309.20'	241.81'	95.00'	181.62'	S33°25'21"W
C3	60°18'11"	8.13'	14.73'	14.00'	14.06'	S76°11'29"W
C4	90°00'00"	14.00'	21.99'	14.00'	19.80'	S88°57'36"E
C5	90°00'00"	14.00'	21.99'	14.00'	19.80'	N01°02'24"E
C6	25°00'00"	100.65'	198.09'	454.00'	196.53'	N31°27'36"W
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C14	23°45'17"	226.73'	446.94'	1078.00'	443.74'	N10°53'13"W
C15	38°50'02"	535.78'	1030.23'	1520.00'	1010.62'	S33°28'54"E
C16	47°52'19"	1684.71'	3171.08'	3795.32'	3079.64'	S70°01'16"W
C17	31°06'19"	105.76'	206.30'	380.00'	203.77'	N74°19'38"E
C18	31°35'24"	107.49'	209.51'	380.00'	206.87'	N74°05'06"E
C19	00°17'29"	10.62'	21.25'	4177.32'	21.25'	N58°26'09"E
C20	17°21'46"	637.84'	1265.89'	4177.32'	1261.06'	N67°15'47"E
C21	08°31'20"	311.24'	621.34'	4177.32'	620.76'	N80°12'20"E
C22	20°00'14"	67.02'	132.67'	380.00'	132.00'	N74°27'53"E
C23	28°49'16"	97.64'	191.15'	380.00'	189.14'	N78°52'24"E
C24	28°45'05"	97.40'	190.69'	380.00'	188.69'	N75°37'27"E
C25	02°08'52"	110.47'	220.92'	5893.32'	220.90'	N62°19'21"E
C26	05°51'52"	301.87'	603.21'	5893.32'	602.95'	N66°19'43"E
C27	07°21'04"	378.57'	756.11'	5893.32'	755.59'	N79°58'12"E
C28	20°19'05"	178.65'	353.55'	997.00'	351.70'	N79°48'43"E
C29	06°17'29"	344.88'	689.06'	6275.32'	688.71'	N72°47'56"E
C30	04°54'05"	306.41'	612.45'	7159.32'	612.27'	S72°13'57"W
C31	69°54'28"	265.62'	463.65'	380.00'	435.42'	S34°49'40"W
C32	26°28'39"	89.40'	175.61'	380.00'	174.05'	S13°21'54"E
C33	26°29'01"	89.42'	175.65'	380.00'	174.09'	S13°21'43"E
C34	31°17'54"	106.45'	207.58'	380.00'	205.01'	S15°46'09"E
C35	09°35'24"	422.39'	842.81'	5035.32'	841.83'	N81°08'57"E
C36	21°32'32"	199.18'	393.65'	1047.00'	391.34'	S33°11'21"E
C37	25°00'00"	92.00'	181.08'	415.00'	179.64'	S31°27'36"E
C38	25°00'00"	90.45'	178.02'	408.00'	176.61'	S56°27'36"E
C39	12°29'47"	415.53'	827.77'	3795.32'	826.13'	N52°20'00"E
C40	17°21'46"	579.51'	1150.13'	3795.32'	1145.74'	N67°15'47"E
C41	18°00'46"	601.55'	1193.17'	3795.32'	1188.27'	N84°57'03"E
C42	89°32'55"	13.89'	21.88'	14.00'	19.72'	S30°43'07"W
C43	05°50'24"	322.99'	645.43'	6332.32'	645.15'	S72°34'23"W
C44	20°19'05"	168.44'	333.34'	940.00'	331.59'	S79°48'43"W
C45	89°54'10"	13.98'	21.97'	14.00'	19.78'	N45°04'39"W
C46	69°54'28"	248.15'	433.14'	355.00'	406.77'	N34°49'40"E
C47	05°03'22"	314.99'	629.57'	7134.32'	629.37'	N72°18'35"E
C48	04°44'53"	297.86'	595.37'	7184.32'	595.20'	S72°09'21"W
C49	69°54'28"	283.10'	494.15'	405.00'	464.06'	S34°49'40"W
C50	90°05'50"	14.02'	22.01'	14.00'	19.82'	S44°55'21"W
C51	91°01'09"	14.25'	22.24'	14.00'	19.97'	N44°31'10"W
C52	90°05'31"	14.02'	22.01'	14.00'	19.81'	N44°55'30"E
C53	26°28'39"	95.28'	187.16'	405.00'	185.50'	S13°21'54"E
C54	89°37'24"	13.91'	21.90'	14.00'	19.73'	S18°12'29"W
C55	01°46'16"	91.48'	182.95'	5918.32'	182.94'	S62°08'03"W
C56	28°45'05"	90.99'	178.14'	355.00'	176.28'	S75°37'27"W
C57	89°52'45"	13.97'	21.96'	14.00'	19.78'	N45°03'37"W
C58	90°07'15"	14.03'	22.02'	14.00'	19.82'	N44°56'23"E
C59	28°45'05"	103.80'	203.23'	405.00'	201.11'	N75°37'27"E
C60	01°45'58"	90.45'	180.89'	5868.32'	180.88'	N62°07'54"E
C61	90°22'54"	14.09'	22.08'	14.00'	19.86'	S71°47'40"E
C62	26°29'01"	83.54'	164.09'	355.00'	162.63'	S13°21'43"E
C63	89°59'57"	14.00'	21.99'	14.00'	19.80'	S44°52'47"W
C64	12°44'05"	116.84'	232.71'	1047.00'	232.23'	S37°35'34"E
C65	90°00'03"	14.00'	21.99'	14.00'	19.80'	N45°07'13"W
C66	26°29'01"	95.30'	187.20'	405.00'	185.54'	N13°21'43"W
C67	90°22'54"	14.09'	22.08'	14.00'	19.86'	N18°35'14"E
C68	05°28'58"	280.99'	561.56'	5868.32'	561.34'	N66°31'10"E
C69	05°29'16"	283.65'	566.86'	5918.32'	566.64'	S66°31'01"W
C70	89°37'24"	13.91'	21.90'	14.00'	19.73'	N71°24'55"W
C71	26°28'39"	83.52'	164.05'	355.00'	162.60'	N13°21'54"W
C72	20°19'05"	188.87'	373.76'	1054.00'	371.81'	N79°48'43"E
C73	05°49'47"	316.62'	632.69'	6218.32'	632.41'	N72°34'04"E
C74	90°27'42"	14.11'	22.10'	14.00'	19.88'	S59°17'11"E
C75	89°31'01"	13.88'	21.87'	14.00'	19.72'	S30°42'11"W
C76	00°28'59"	24.94'	49.88'	5918.32'	49.88'	N75°42'11"E
C77	00°20'55"	18.00'	36.00'	5918.32'	36.00'	N76°07'07"E
C78	90°29'22"	14.12'	22.11'	14.00'	19.88'	N31°11'21"E
C79	07°19'58"	376.03'	751.03'	5868.32'	750.52'	N80°06'01"E
C80	01°03'09"	13.96'	27.92'	1520.00'	27.92'	N32°43'53"W
C81	01°03'40"	14.08'	28.15'	1520.00'	28.15'	N33°47'18"W
C82	07°05'33"	366.78'	732.62'	5918.32'	732.15'	S79°58'25"W
C83	89°31'01"	13.88'	21.87'	14.00'	19.72'	N58°48'51"W
C84	89°15'32"	13.82'	21.81'	14.00'	19.67'	S30°34'26"W
C85	16°02'38"	542.92'	1078.73'	3852.32'	1075.21'	S67°10'53"W
C86	89°25'19"	13.86'	21.85'	14.00'	19.70'	N76°07'46"W
C87	90°32'24"	14.13'	22.12'	14.00'	19.89'	N13°51'06"E
C88	16°07'50"	588.40'	1169.02'	4152.32'	1165.16'	N67°11'13"E
C89	90°41'32"	14.17'	22.16'	14.00'	19.92'	S59°24'06"E
C90	31°17'54"	99.45'	193.92'	355.00'	191.52'	S15°46'09"E
C91	89°28'12"	13.87'	21.86'	14.00'	19.71'	S76°09'12"E
C92	16°09'12"	596.34'	1184.76'	4202.32'	1180.84'	N67°11'18"E
C93	89°19'14"	13.83'	21.83'	14.00'	19.68'	N30°36'17"E
C94	90°34'29"	14.14'	22.13'	14.00'	19.90'	N59°20'34"W
C95	00°34'29"	25.07'	50.14'	4999.32'	50.14'	N75°39'26"E
C96	00°24'45"	18.00'	36.00'	4999.32'	36.00'	N76°09'03"E
C97	89°26'12"	13.86'	21.85'	14.00'	19.70'	S58°46'26"E
C98	09°21'53"	415.36'	828.88'	5071.32'	827.95'	N81°11'24"E
C99	09°29'53"	415.32'	828.74'	4999.32'	827.79'	S81°16'05"W
C100	90°34'29"	14.14'	22.13'	14.00'	19.90'	S31°13'54"W
C101	89°19'14"	13.83'	21.83'	14.00'	19.68'	S58°42'57"E
C102	07°50'34"	288.06'	575.22'	4202.32'	574.77'	N80°32'43"E
C103	20°00'14"	62.61'	123.94'	355.00'	123.31'	N74°27'53"E
C104	28°49'16"	104.07'	203.72'	405.00'	201.58'	N78°52'24"E
C105	90°00'00"	14.00'	21.99'	14.00'	19.80'	N48°17'02"E
C106	00°16'49"	4.50'	9.01'	1841.64'	9.01'	N48°30'49"E
C107	13°16'38"	130.94'	260.70'	1125.00'	260.12'	N37°19'17"W
C108	27°22'17"	235.96'	462.91'	969.00'	458.52'	S15°11'57"E
C109	92°20'26"	14.58'	22.56'	14.00'	20.20'	S75°03'18"E
C110	31°06'19"	112.72'	219.87'	405.00'	217.18'	N74°19'38"E
C111	28°38'23"	90.62'	177.45'	355.00'	175.61'	N75°33'37"E
C112	92°39'32"	14.67'	22.64'	14.00'	20.25'	N14°54'39"E
C113	31°17'54"	113.45'	221.24'	405.00'	218.50'	N15°46'09"W
C114	90°00'00"	14.00'	21.99'	14.00'	19.80'	N41°42'58"W
C115	28°49'16"	91.22'	178.57'	355.00'	176.70'	S78°52'24"W
C116	20°00'14"	71.43'	141.40'	405.00'	140.68'	S74°27'53"W
C117	07°49'48"	284.17'	567.45'	4152.32'	567.01'	S80°33'06"W
C118	90°41'32"	14.17'	22.16'	14.00'	19.92'	S31°17'26"W
C119	89°15'32"	13.82'	21.81'	14.00'	19.67'	S58°41'06"E
C120	16°04'25"	543.94'	1080.73'	3852.32'	1077.19'	N84°43'20"E
C121	89°28'31"	13.87'	21.86'	14.00'	19.71'	N48°01'17"E
C122	45°17'02"	1559.32'	2954.59'	3738.32'	2878.29'	N70°05'50"E
C123	90°32'41"	14.13'	22.12'	14.00'	19.89'	S41°59'19"E
C124	77°09'57"	75.79'	127.95'	95.00'	118.49'	S10°41'40"W
C125	90°01'31"	5.00'	7.86'	5.00'	7.07'	N88°58'22"W
C126	25°00'00"	97.55'	191.99'	440.00'	190.47'	N56°27'36"W
C127	91°24'56"	14.35'	22.34'	14.00'	20.04'	N01°44'52"E
C128	18°34'47"	248.63'	492.90'	1520.00'	490.75'	S43°36'31"E
C129	11°41'19"	605.78'	1207.36'	5918.32'	1205.27'	S69°37'02"W
C130	08°54'41"	168.62'	336.57'	2164.00'	336.23'	S85°25'25"W
C131	04°00'21"	205.23'	410.28'	5868.32'	410.20'	N65°46'51"E
C132	18°08'26"	242.66'	481.25'	1520.00'	479.24'	S23°08'06"E
C133	05°58'52"	116.81'	233.41'	2236.00'	233.31'	N73°49'56"E
C134	04°31'41"	197.65'	395.09'	4999.32'	394.99'	N73°06'21"E
C135	06°51'49"	252.00'	503.41'	4202.32'	503.10'	S71°49'59"W
C136	04°21'02"	176.30'	352.44'	4641.37'	352.35'	S63°37'41"W
C137	09°24'35"	29.22'	58.30'	355.00'	58.24'	N04°49'30"W
C138	07°48'25"	152.57'	304.67'	2236.00'	304.44'	N85°58'32"E
C139	06°33'46"	240.93'	481.34'	4202.32'	481.08'	S62°23'34"W
C140	21°53'19"	68.65'	135.62'	355.00'	134.80'	N20°28'27"W
C141	92°20'26"	14.58'	22.56'	14.00'	20.20'	N12°36'16"E
C142	31°06'19"	98.80'	192.73'	355.00'	190.37'	N74°19'38"E
C143	29°08'06"	105.25'	205.94'	405.00'	203.73'	N75°18'45"E
C144	87°50'11"	13.48'	21.46'	14.00'	19.42'	S75°20'12"E
C145	89°25'19"	13.86'	21.85'	14.00'	19.70'	S13°17'33"W
C146	10°33'21"	355.87'	709.72'	3852.32'	708.72'	S52°43'33"W
C147	88°35'31"	13.66'	21.65'	14.00'	19.55'	N88°15'22"W
C148	10°23'39"	88.14'	175.79'	969.00'	175.55'	N38°45'47"W
C149	07°03'20"	230.46'	460.34'	3738.32'	460.05'	N89°12'41"E
C150	14°11'00"	465.08'	925.41'	3738.32'	923.04'	N76°16'33"E
C151	09°11'35"	268.85'	536.54'	3343.97'	535.97'	S77°48'18"W
C152	12°42'02"	416.03'	828.66'	3738.32'	826.96'	N60°55'09"E
C153	07°06'49"	232.36'	464.13'	3738.32'	463.83'	N51°00'44"E
C154	25°00'00"	83.36'	164.06'	388.00'	162.76'	S56°27'36"E
C155	25°00'00"	83.36'	164.06'	388.00'	162.76'	N31°27'36"W
C156	21°11'39"	344.55'	681.23'	1841.64'	677.35'	S58°58'13"W
C157	01°54'52"	62.46'	124.92'	3738.32'	124.91'	N68°13'36"E
C158	02°18'59"	75.57'	151.13'	3738.32'	151.12'	N84°31'32"E
C159	05°14'57"	102.50'	204.86'	2236.00'	204.78'	N79°26'51"E
C160	02°43'38"	100.03'	200.02'	4202.32'	200.00'	S67°02'16"W
C161	03°58'40"	75.15'	150.24'	2164.00'	150.21'	S78°58'44"W
C162	01°28'37"	75.64'	151.27'	5868.32'	151.27'	N68°31'20"E
C163	10°47'45"	60.47'	120.59'	640.00'	120.41'	S84°34'23"W
C164	20°19'05"	96.76'	191.49'	540.00'	190.49'	N79°48'43"E
C165	01°28'07"	86.29'	172.57'	6732.32'	172.57'	N70°23'15"E
C166	01°02'48"	65.16'	130.32'	7134.32'	130.32'	N71°55'03"E
C167	03°24'25"	200.21'	400.31'	6732.32'	400.25'	N73°56'05"E
C168	05°35'59"	324.36'	648.21'	6632.32'	647.95'	S72°50'01"W
C169	01°17'06"	75.49'	150.97'	6732.32'	150.97'	N76°53'36"E
C170	02°01'14"	116.95'	233.88'	6632.32'	233.87'	S77°15'56"W
C171	01°27'51"	75.63'	151.25'	5918.32'	151.25'	N68°35'07"E
C172	08°10'00"	75.24'	150.23'	1054.00'	150.10'	S73°49'20"W
C173	14°52'12"	52.85'	105.11'	405.00'	104.82'	N71°53'52"E
C174	01°29'47"	50.31'	100.61'	3852.32'	100.60'	N87°00'11"E
C175	04°14'44"	13.16'	26.30'	355.00'	26.30'	S66°35'08"W
C176	04°04'49"	210.82'	421.47'	5918.32'	421.38'	S65°48'47"W
C177	05°00'28"	168.46'	336.71'	3852.32'	336.60'	S89°44'41"E
C178	08°48'26"	80.63'	160.94'	1047.00'	160.78'	S26°49'18"E
C179	90°00'00"	14.00'	21.99'	14.00'	19.80'	S01°02'24"W
C180	90°00'00"	14.00'	21.99'	14.00'	19.80'	N88°57'36"W
C181	00°05'58"	5.49'	10.99'	6332.32'	10.99'	S69°42'10"W
C182	08°29'25"	69.77'	139.29'	940.00'	139.17'	S73°53'54"W

Tangent Data

ID	BEARING	DISTANCE
T1	S46°02'24"W	78.00'
T2	N43°57'36"W	80.00'
T3	N43°57'36"W	46.00'
T4	S46°02'24"W	12.00'
T5	S89°47'27"E	78.00'
T6	N89°52'45"E	86.76'
T7	N89°52'45"E	225.12'
T8	S20°44'21"E	50.00'
T9	S89°52'45"W	92.14'
T10	S00°07'12"E	10.00'
T11	S89°28'45"E	19.75'
T12	N00°59'25"E	86.76'
T13	N89°00'35"W	20.00'
T14	N58°46'29"E	219.08'
T15	N64°27'46"E	123.75'
T16	S90°00'00"E	227.46'
T17	N89°58'16"E	193.62'
T18	S26°36'13"E	93.13'
T19	S00°07'12"E	106.83'
T20	S43°57'36"E	100.00'
T21	S43°57'36"E	54.00'
T22	S43°57'36"E	29.43'
T23	S43°57'36"E	100.00'
T24	N52°53'55"W	57.40'
T25	S89°58'16"W	154.74'
T26	N52°53'55"W	31.58'
T27	N52°53'55"W	31.51'
T28	S00°59'25"W	31.08'
T29	S00°59'25"W	39.83'
T30	S00°59'25"W	46.94'
T31	S00°07'15"E	24.28'
T32	S26°36'13"E	54.26'
T33	N90°00'00"W	213.54'
T34	S00°07'15"E	38.97'
T35	S00°07'15"E	39.03'
T36	N90°00'00"E	213.38'
T37	S00°07'12"E	92.83'
T38	N89°52'45"E	14.00'
T39	N46°02'24"E	53.00'
T40	N89°52'45"E	25.00'
T41	N89°52'45"E	39.00'
T42	N20°44'21"W	25.00'
T43	N89°58'16"E	154.50'
T44	S14°03'20"E	25.00'
T45	S14°03'20"E	39.10'
T46	N14°03'20"W	36.00'
T47	N14°03'20"W	49.88'
T48	S14°03'53"E	36.55'
T49	S14°03'53"E	36.56'
T50	S86°42'58"E	188.36'
T51	N03°17'02"E	126.45'
T52	S89°38'06"E	66.09'
T53	N03°17'02"E	137.10'
T54	S52°53'55"E	132.11'
T55	S14°03'20"E	100.00'
T56	N00°07'15"W	174.79'
T57	N58°46'29"E	126.28'
T58	N43°57'36"W	69.00'
T59	N89°38'06"W	142.76'
T60	N89°58'16"E	169.40'
T61	S89°58'16"W	47.50'
T62	S89°52'45"W	28.14'
T63	N86°42'58"W	141.28'
T64	N16°47'30"W	6.76'
T65	S46°02'24"W	163.00'
T66	N43°57'36"W	185.91'
T67	S46°02'24"W	200.00'
T68	S03°17'02"W	220.66'
T69	N43°57'36"W	200.00'
T70	S89°58'16"W	169.23'
T71	S00°59'25"W	100.02'
T72	N43°57'36"W	46.00'
T73	N00°07'34"W	100.00'
T74	N64°27'46"E	59.81'
T75	S64°27'46"W	87.32'
T76	S46°02'24"W	37.00'
T77	N86°42'58"W	100.00'

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