

# CITY OF ALBUQUERQUE



August 10, 2006

J. Graeme Means, P.E.  
Jeff Mortensen & Assoc., Inc.  
6010-B Midway Park Blvd. NE  
Albuquerque, NM 87109

**Re: Rich Court Grading Plan**  
**Engineer's Stamp dated 7-25-06 (C20/D44)**

Dear Mr. Means,

Based upon the information provided in your submittals dated 7-25-06 and 8-8-06, the above referenced plan is approved for Preliminary Plat action by the DRB. Once that board approves the grading plan, please submit a mylar copy for my signature in order to obtain a Rough Grading Permit.

This project requires a National Pollutant Discharge Elimination System (NPDES) permit. If you have any questions feel free to call the Municipal Development Department Hydrology Section at 768-3654 (Charles Caruso).

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

*Blb*

C: file  
Brad Bingham  
Charles Caruso, DMD

P.O. Box 1293

Albuquerque

New Mexico 87103

[www.cabq.gov](http://www.cabq.gov)

**DRAINAGE AND TRANSPORTATION INFORMATION SHEET**

(REV. 1/28/2003rd)

PROJECT TITLE: Rich Court ZONE ATLAS/DRNG. FILE #: C-20/D44  
 DRB #: \_\_\_\_\_ EPC #: \_\_\_\_\_ WORK ORDER #: \_\_\_\_\_

## LEGAL DESCRIPTION:

CITY ADDRESS: Alameda Blvd NE

ENGINEERING FIRM: Jeff Mortensen & Assoc., Inc. CONTACT: Graeme Means, PE 13676  
 ADDRESS: 6010-B Midway Park Blvd. NE PHONE: (505) 345-4250  
 CITY, STATE: Albuquerque, NM ZIP CODE: 87109

OWNER: Llave Homes CONTACT: Bob Keeran  
 ADDRESS: PO Box 93642 PHONE: 856-4076  
 CITY, STATE: Albuquerque, NM ZIP CODE: 87199

ARCHITECT: \_\_\_\_\_ CONTACT: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_  
 CITY, STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

SURVEYOR: JMA CONTACT: Chuck Cala, PS 11184  
 ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_  
 CITY, STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

CONTRACTOR: Not Selected CONTACT: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_  
 CITY, STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

## TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT  
☐ DRAINAGE PLAN 1<sup>st</sup> SUBMITTAL, **REQUIRES TCL or equal**  
☐ DRAINAGE PLAN RESUBMITTAL  
☐ CONCEPTUAL GRADING & DRAINAGE PLAN  
☐ GRADING PLAN  
☐ EROSION CONTROL PLAN  
☐ ENGINEER'S CERTIFICATION (HYDROLOGY)  
☐ CLOMR/LOMR  
☐ TRAFFIC CIRCULATION LAYOUT (TCL)  
☐ ENGINEER'S CERTIFICATION (TCL)  
☐ ENGINEER'S CERTIFICATION (DRB APPR. SITE PLAN)  
☒ OTHER - **Supplemental Information**

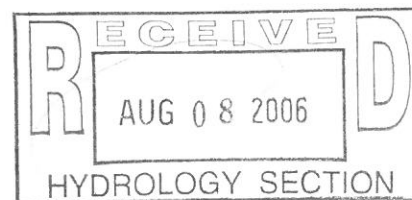
## CHECK TYPE OF APPROVAL SOUGHT:

- ☒ SIA/FINANCIAL GUARANTEE RELEASE  
☒ PRELIMINARY PLAT APPROVAL  
☐ S. DEV. PLAN FOR SUB'D APPROVAL  
☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL  
☐ SECTOR PLAN APPROVAL  
☒ FINAL PLAT APPROVAL  
☐ FOUNDATION PERMIT APPROVAL  
☐ BUILDING PERMIT APPROVAL  
☐ CERTIFICATE OF OCCUPANCY (PERM.)  
☐ CERTIFICATE OF OCCUPANCY (TEMP.)  
☒ GRADING PERMIT APPROVAL  
☐ PAVING PERMIT APPROVAL  
☒ WORK ORDER APPROVAL  
☐ OTHER (SPECIFY) \_\_\_\_\_

## WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☐ YES  
☒ NO  
☐ COPY PROVIDED

DATE SUBMITTED: 08/08/06 BY: J. Graeme Means



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 upon 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.

## DRAINAGE REPORT

### I. EXECUTIVE SUMMARY AND INTRODUCTION

THE PROPOSED DEVELOPMENT IS LOCATED IN THE LA CUEVA SECTOR PLAN AREA OF NORTH ALBUQUERQUE ACRES. THE DRAINAGE OUTFALL FOR THE SITE IS TO AN EXISTING PUBLIC DRAINAGE CHANNEL CONSTRUCTED BY CPN 7519.82 THAT WAS SIZED FOR THIS DISCHARGE. OFFSITE FLOWS ASSOCIATED WITH THE LA CUEVA ARROYO IMPACT THE SITE. THE SITE LIES WITHIN A DESIGNATED FLOOD HAZARD ZONE AND A LETTER OF MAP REVISION FROM FEMA WILL BE REQUESTED UPON COMPLETION OF THE LA CUEVA ARROYO CHANNEL BY THE SAME DEVELOPER UNDER A SEPARATE CONTRACT (CPN 757781). A LARGE PART OF THE SITE (TRACT A) WILL REMAIN UNDEVELOPED AT THIS TIME DUE TO PHASED LA CUEVA CHANNEL CONSTRUCTION AND THE IMPENDING REALIGNMENT OF ALAMEDA BLVD NE. THE PURPOSE OF THIS DRAINAGE REPORT IS TO OBTAIN PRELIMINARY PLAT, ROUGH GRADING, FINAL PLAT, AND WORK ORDER APPROVALS.

### II. PROJECT DESCRIPTION:

AS SHOWN BY VICINITY MAP C-20 AT RIGHT, THE SITE IS LOCATED IN NORTH ALBUQUERQUE ACRES ON THE NORTH SIDE OF ALAMEDA BLVD NE, BETWEEN BARSTOW STREET NE AND VENTURA STREET NE. THE SITE LIES ADJACENT TO THE LA CUEVA ARROYO, THE DOWNSTREAM REACH OF WHICH IS CURRENTLY UNDER CONSTRUCTION FOR PERMANENT CHANNELIZATION BY A SEPARATE PROJECT BY THE SAME DEVELOPER. THE SITE IS UNDEVELOPED. THE SITES TO THE NORTH AND WEST ARE DEVELOPED RESIDENTIALLY. THE SITES TO THE SOUTH AND EAST ARE UNDEVELOPED. THE EXISTING LEGAL DESCRIPTION IS LOTS 25-27, BLOCK 3, NORTH ALBUQUERQUE ACRES, TRACT 3, UNIT 3. THE SITE IS CURRENTLY ZONED R-D (3 DU/GROSS ACRE) BY THE LA CUEVA SECTOR PLAN. AS SHOWN BY PANEL 141 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS, BERNALILLO COUNTY, NEW MEXICO, AND INCORPORATED AREAS, DATED NOVEMBER 19, 2003, A LARGE PORTION OF THE SITE LIES WITHIN A DESIGNATED FLOOD HAZARD ZONE (AO, DEPTH 2) ASSOCIATED WITH THE LA CUEVA ARROYO.

### III. BACKGROUND DOCUMENTS

THE FOLLOWING IS A LIST OF DOCUMENTS RELATED TO THE SITE AND SURROUNDING AREA. THIS LIST MAY NOT BE INCLUSIVE, HOWEVER, REPRESENTS A SUMMARY OF RELEVANT PLANS AND DOCUMENTS KNOWN TO THE ENGINEER AT THE TIME OF PLAN PREPARATION.

- FINAL NORTH ALBUQUERQUE ACRES MASTER DRAINAGE PLAN PREPARED FOR THE CITY OF ALBUQUERQUE BY RTI DATED OCTOBER, 1998. THE SUBJECT SITE LIES WITHIN BASIN 111.3 WHICH ASSUMED RESIDENTIAL DEVELOPMENT WITH AN OUTFALL TO THE LA CUEVA ARROYO VIA SD-25 IN BARSTOW.
- CONSTRUCTION PLANS FOR ESTRADA COURT SUBDIVISION BY RIO GRANDE ENGINEERING DATED 8/28/2005 (CPN 751982). THESE PLANS ADDRESS THE SUBDIVISION TO THE NORTH THAT IS CURRENTLY UNDER CONSTRUCTION AND PROVIDES A PUBLIC DRAINAGE CHANNEL THAT IS THE OUTFALL FOR THE RICH COURT SUBDIVISION.
- CONSTRUCTION PLANS FOR LA CUEVA ARROYO CHANNEL IMPROVEMENTS BY RIO GRANDE ENGINEERING (CPN 757781). THESE PLANS ADDRESS THE PERMANENT CHANNELIZATION OF THE DOWNSTREAM PORTION OF THE LA CUEVA ARROYO TO BARSTOW STREET NE AND INCLUDE A TEMPORARY RIP-RAP LINED DIVERSION BERM ALONG THE EAST EDGE OF THE RICH COURT SITE. THIS PROJECT IS CURRENTLY UNDER CONSTRUCTION AND WILL PROTECT RICH COURT FROM THE HAZARD OF FLOODING.

THE PROPOSED CONSTRUCTION DRAINING DIRECTLY AND FREELY TO EXISTING PUBLIC DRAINAGE IMPROVEMENTS AS PROPOSED AND DESCRIBED HEREIN IS IN ACCORDANCE WITH THE POLICIES AND REQUIREMENTS OF THE ABOVE LISTED DOCUMENTS.

### IV. EXISTING CONDITIONS:

THE SITE IS UNDEVELOPED WITH A SPARSE GROUND COVER OF NATIVE VEGETATION. THERE IS EVIDENCE OF RECENT DISTURBANCE FROM NEARBY CONSTRUCTION. THE SITE SLOPES FROM SOUTHEAST TO NORTHWEST. A CMU WALL HAS BEEN CONSTRUCTED ALONG THE NORTH PROPERTY LINE BY THE SAME DEVELOPER FOR THE ESTRADA COURT SUBDIVISION (REFERENCE B). A PUBLIC DRAINAGE CHANNEL WAS ALSO CONSTRUCTED BY THE ESTRADA COURT PROJECT AND THERE ARE NUMEROUS WALL OPENINGS IN THE AFOREMENTIONED CMU WALL. OFFSITE FLOWS ENTER THE SITE FROM THE LA CUEVA ARROYO. BASED ON REFERENCE A, THE 100-YEAR PEAK FLOW RATE ASSOCIATED WITH THE ARROYO IS BETWEEN 3094 CFS AND 3048 CFS. THE LA CUEVA CHANNEL, CURRENTLY UNDER CONSTRUCTION, IS DESIGNED TO ACCEPT AND CONFINE THESE FLOWS.

### V. DEVELOPED CONDITIONS

THE PROJECT WILL BE PHASED. THE FIRST 6 LOTS WILL BE AS SHOWN BY THIS PROPOSAL. A SEPARATE SUBMITTAL WILL ADDRESS FUTURE EXPANSION TO THE EAST THAT WILL REQUIRE EXTENSION OF THE LA CUEVA CHANNEL AND OFFICIAL ESTABLISHMENT OF THE ALAMEDA REALIGNMENT. AS SHOWN BY THE GRADING PLAN ON SHEET 2, THE PROPOSED LOTS WILL DRAIN INTERNALLY VIA SURFACE FLOW TO A PROPOSED PUBLIC DRAINAGE CHANNEL THAT WILL OUTLET TO THE PUBLIC DRAINAGE CHANNEL RECENTLY CONSTRUCTED BY THE ESTRADA COURT PROJECT. THE DOWNSTREAM AND ADJACENT LA CUEVA CHANNEL IMPROVEMENTS ARE CURRENTLY BEING CONSTRUCTED BY SEPARATE WORK ORDER AND WILL BE MAINTAINED BY AMAFCA. A PERIMETER WALL IS PROPOSED AS SHOWN. THE DEVELOPER WILL CONSTRUCT THE WALL AND IT WILL RETAIN NO MORE THAN 18 INCHES AT ANY LOCATION. THE INTENT OF THE PLAN IS TO BLEND IN WITH EXISTING GRADES TO THE MAXIMUM EXTENT POSSIBLE.

### VI. GRADING PLAN

THE GRADING PLAN ON SHEET 2 SHOWS: 1) EXISTING GRADES INDICATED BY CONTOURS AT 1 FT, 0 IN INTERVALS FROM THE MAY 9, 2006 TOPOGRAPHIC AND BOUNDARY SURVEY CONDUCTED BY THIS OFFICE, NMPS 11184, 2) PROPOSED GRADES INDICATED BY PAD ELEVATIONS, SPOT ELEVATIONS, TOP OF CURB ELEVATIONS AND FLOWLINES, 3) THE LIMIT AND CHARACTER OF THE EXISTING IMPROVEMENTS AS SHOWN BY THE AFOREMENTIONED SURVEY AND SUPPLEMENTED WITH PROPOSED CHANNEL IMPROVEMENTS TAKEN FROM THE PLANS BY RIO GRANDE ENGINEERING, AND 4) THE LIMIT AND CHARACTER OF THE PROPOSED IMPROVEMENTS.

### VII. CALCULATIONS

THE CALCULATIONS, WHICH APPEAR HEREON, ANALYZE BOTH THE EXISTING AND DEVELOPED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL EVENT. THE PROCEDURE FOR 40-ACRE AND SMALLER BASINS, AS SET FORTH IN THE REVISION OF SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA, DATED JANUARY, 1993, HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUNOFF GENERATED. AS DEMONSTRATED BY THE CALCULATIONS, THERE WILL BE AN INCREASE ATTRIBUTABLE TO DEVELOPMENT. MANNING'S EQUATION WAS USED TO EVALUATE THE PROPOSED PUBLIC DRAINAGE CHANNEL.

### VIII. CONCLUSIONS

- THE PROPOSED SITE IMPROVEMENTS AND DRAINAGE CONCEPT ARE CONSISTENT WITH THE DEVELOPMENT CRITERIA ESTABLISHED BY PREVIOUSLY APPROVED PLANS FOR NORTH ALBUQUERQUE ACRES AND THE LA CUEVA ARROYO.
- DEVELOPED RUNOFF FROM THIS SITE WILL DRAIN FREELY TO EXISTING PERMANENT DOWNSTREAM PUBLIC STORM DRAINAGE IMPROVEMENTS SIZED FOR THIS DISCHARGE.
- THERE ARE NO DRAINAGE RELATED DPM DESIGN VARIANCES, OR DRAINAGE COVENANTS ANTICIPATED AT THIS TIME.
- A LOWR WILL BE REQUIRED TO ELIMINATE THE EXISTING FLOOD HAZARD ZONE UPON COMPLETION OF THE LA CUEVA CHANNEL IMPROVEMENTS.

## CALCULATIONS

### SITE CHARACTERISTICS

- PRECIPITATION ZONE = 3
- $P_{100} = P_{300} = 2.60$
- TOTAL PROJECT AREA ( $A_T$ ) = 114,354 SF  
2.63 AC
- EXISTING LAND TREATMENT
 

TREATMENT	AREA (SF/AC)	%
B	57,054 / 1.31	50
C	57,300 / 1.32	50

### 5. DEVELOPED LAND TREATMENT

- | TREATMENT | AREA (SF/AC)  | %  |
|-----------|---------------|----|
| B         | 24,227 / 0.56 | 21 |
| C         | 24,227 / 0.56 | 21 |
| D         | 65,900 / 1.51 | 58 |

### EXISTING CONDITION

- BASIN
  - VOLUME
 
$$E_w = (E_{A1} + E_{A2} + E_{A3} + E_{A4}) / A_T$$

$$E_w = ((1.31 \times 0.92) + (1.32 \times 1.29)) / 2.63 = 1.11 \text{ IN}$$

$$V_{100} = (E_w / 12) A_T = (1.11 / 12) 2.63 = 0.2433 \text{ AC-FT} = 10,580 \text{ CF}$$
  - PEAK DISCHARGE
 
$$Q_p = Q_{pA1} + Q_{pA2} + Q_{pA3} + Q_{pA4}$$

$$Q_p = Q_{100} = (1.31 \times 2.6) + (1.32 \times 3.45) = 8.0 \text{ CFS}$$

### DEVELOPED CONDITION

- BASIN
  - VOLUME
 
$$E_w = (E_{A1} + E_{A2} + E_{A3} + E_{A4}) / A_T$$

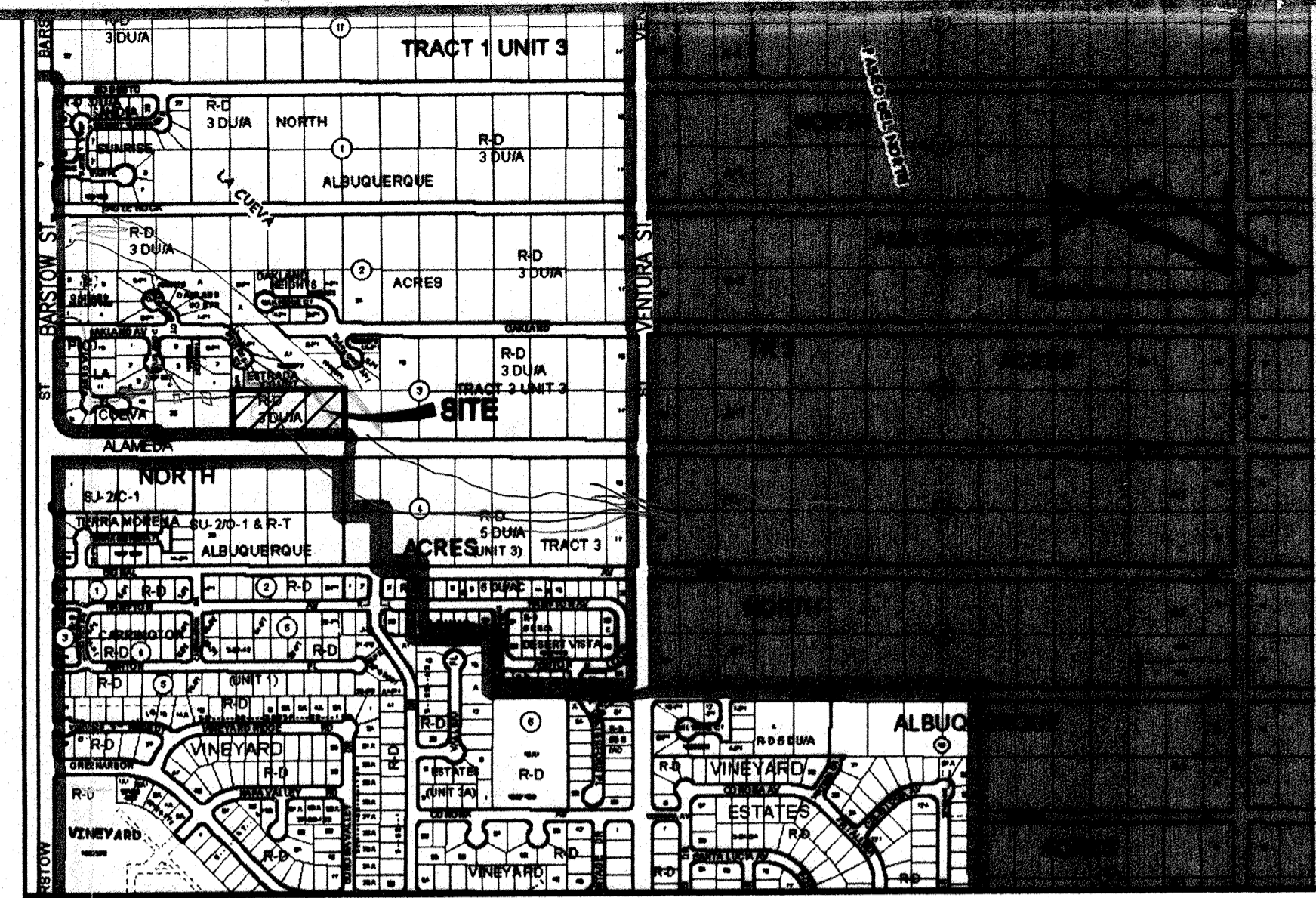
$$E_w = ((0.56 \times 0.92) + (0.56 \times 1.29) + (1.51 \times 2.36)) / 2.63 = 1.83 \text{ IN}$$

$$V_{100} = (E_w / 12) A_T = (1.83 / 12) 2.63 = 0.4011 \text{ AC-FT} = 17,440 \text{ CF}$$
  - PEAK DISCHARGE
 
$$Q_p = Q_{pA1} + Q_{pA2} + Q_{pA3} + Q_{pA4}$$

$$Q_p = Q_{100} = (0.56 \times 2.6) + (0.56 \times 3.45) + (1.51 \times 5.02) = 11.0 \text{ CFS}$$

### COMPARISON

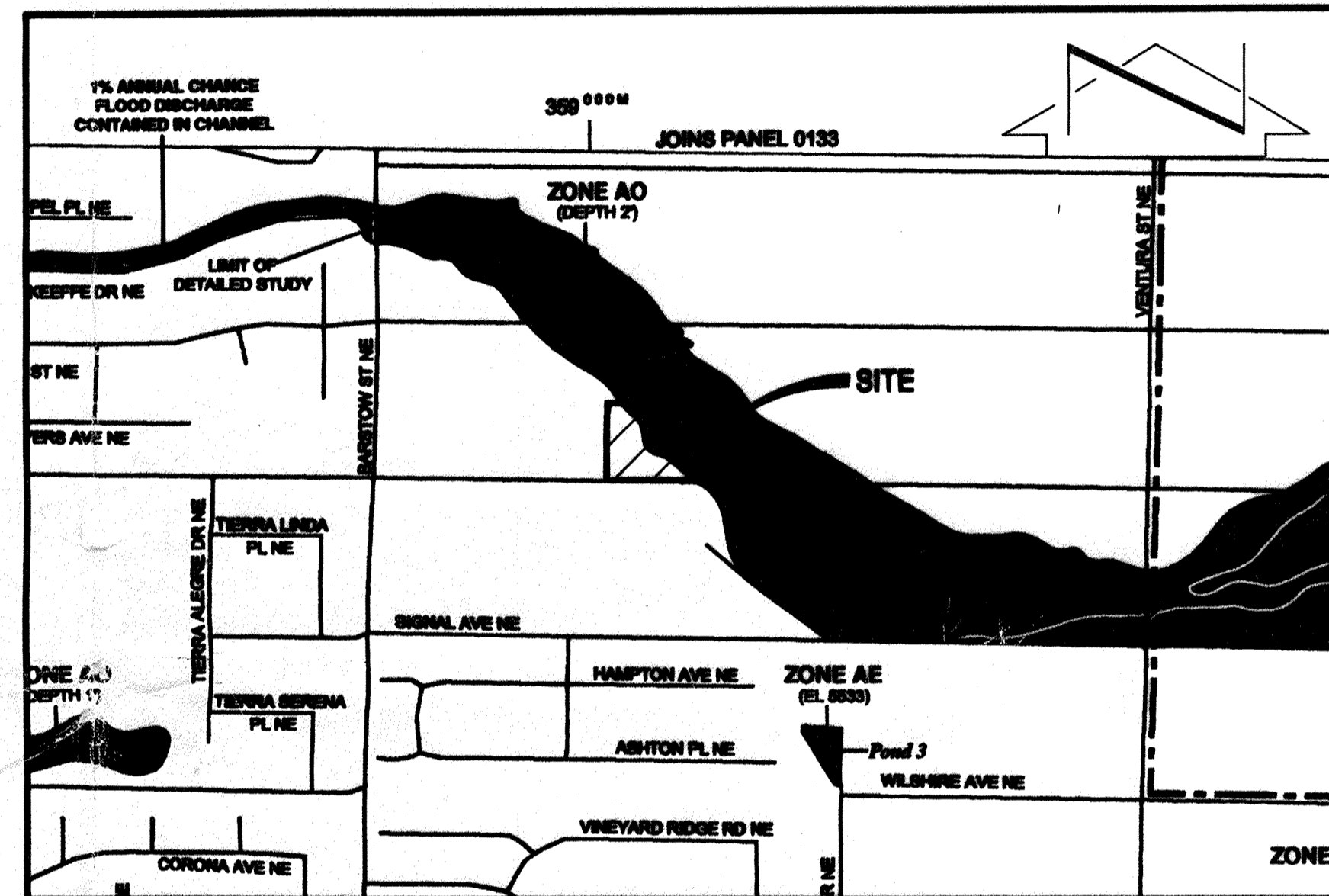
- BASIN
  - VOLUME
 
$$\Delta V_{100} = 17,440 - 10,580 = 6,860 \text{ CF (INCREASE)}$$
  - PEAK DISCHARGE
 
$$\Delta Q_{100} = 11.0 - 8.0 = 3.0 \text{ CFS (INCREASE)}$$



VICINITY MAP

SCALE: 1" = 750'

C-20



F.I.R.M.

SCALE: 1" = 500'

PANEL 141 OF 825

### LEGAL DESCRIPTION

LOTS 25-27, BLOCK 3, NORTH ALBUQUERQUE ACRES, TRACT 3, UNIT 3

### PROJECT BENCHMARK

AN ACS 1 3/4" ALUMINUM DISK STAMPED "ACS BM, 11-C19" EPOXIED TO TOP OF A CONCRETE CURB LOCATED AT THE NNW RETURN OF BARSTOW ST. AND OAKLAND AVENUE N.E. ELEVATION = 5480.97 FEET (NGVD 1929)

### T.B.M.

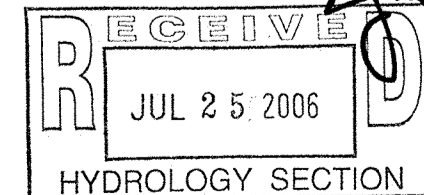
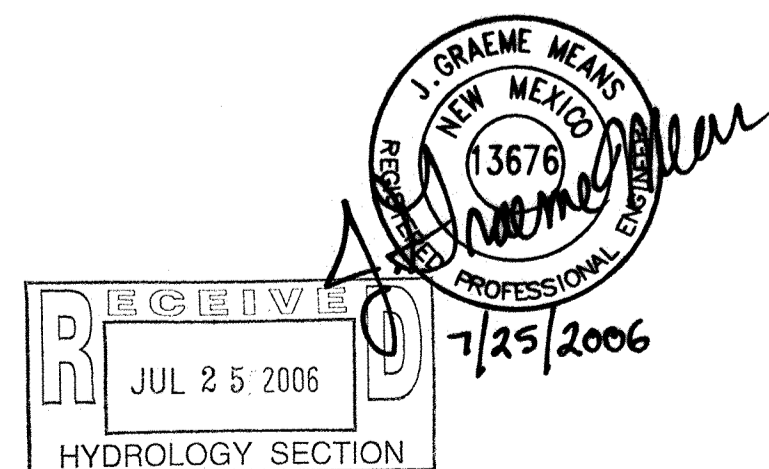
T.B.M. #1  
A SPIKE WITH JMA RED CAP LOCATED APPROXIMATELY 114 FEET NORTH OF THE NORTH EDGE OF ALAMEDA BLVD. N.E. AND APPROXIMATELY 80 FEET EAST OF A CMU WALL AS SHOWN ON SHEET 2.  
ELEVATION = 5515.76 FEET

T.B.M. #2  
A SPIKE WITH JMA RED CAP LOCATED NORTH OF THE SITE AS SHOWN ON SHEET 2.  
ELEVATION = 5522.79 FEET

## INDEX OF DRAWINGS

- COVER SHEET, VICINITY MAP, FIRM, INDEX OF DRAWINGS, DRAINAGE REPORT AND CALCULATIONS.
- GRADING PLAN
- SECTIONS, DETAILS AND GENERAL NOTES
- ALAMEDA BLVD. NW PLAN AND PROFILE (FOR INFORMATION ONLY)

DRB PROJECT #



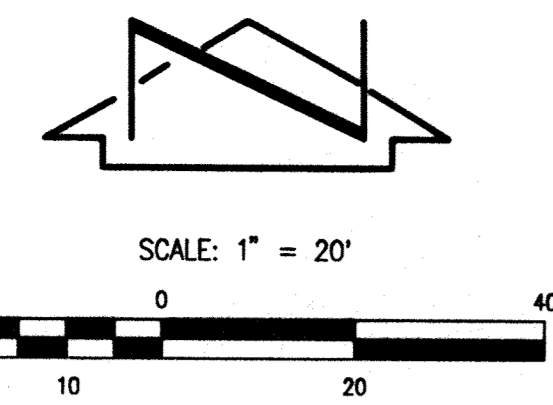
DESIGNED BY	DATE	BY	REVISIONS	JOB NO.
GM/J.D.S.				2005.070.4
DRAWN BY				DATE
JLP				07-2006
APPROVED BY				SHEET
J.G.M.				1 OF 4



JEFF MORTENSEN & ASSOCIATES, INC.  
600-B KIRKWAY PARK BLVD. NE  
ALBUQUERQUE, NEW MEXICO 87109  
ENGINEERS & SURVEYORS (S60) 545-4250  
FAX: 505 345-4254 ESTABLISHED 1977

COVER SHEET, VICINITY MAP, FIRM, INDEX OF DRAWINGS AND DRAINAGE REPORT

RICH COURT



# KEYED NOTES

## EXISTING EASEMENT

- TEMPORARY PUBLIC DRAINAGE EASEMENT GRANTED BY DOCUMENT FILED 04-19-2005, BOOK A95, PAGE 3821, DOC. #2005053982

## NEW EASEMENTS

- PUBLIC UTILITY EASEMENT
- 6" PUBLIC DRAINAGE EASEMENT
- PUBLIC ROADWAY EASEMENT (TO BE VACATED AT A LATER DATE UPON DEDICATED RE-ALIGNMENT OF ALAMEDA BOULEVARD N.E.)
- PRIVATE DRAINAGE EASEMENT
- VACATED RIGHT-OF-WAY

- FORMER ALAMEDA BOULEVARD N.E. STREET RIGHT-OF-WAY, PUBLIC ROADWAY EASEMENT (TO BE VACATED AT A LATER DATE UPON DEDICATED RE-ALIGNMENT OF ALAMEDA BOULEVARD N.E.)

CONCRETE CHANNEL UNDER CONSTRUCTION BY CPN 757781

LOT 3-P1 ESTERADA COURT (FILED 09-06-2005, 2005C-299)

TRACT A-1 ESTERADA COURT (FILED 09-06-2005, 2005C-299)

T.B.M. #2 ELEV. = 5522.79

LOT 4-P1 OAKLAND COURT (FILED 01-13-2005, 2005C-12)

## PROJECT BENCHMARK

AN ACS 1 3/4" ALUMINUM DISK STAMPED "ACS BM, 11-C19" EPOXY TO TOP OF A CONCRETE CURB LOCATED AT THE NW RETURN OF BARSTOW ST. AND OAKLAND AVENUE N.E. ELEVATION = 5480.97 FEET (NGVD 1929)

## T.B.M.

T.B.M. #1 A SPIKE WITH JMA RED CAP LOCATED APPROXIMATELY 114 FEET NORTH OF THE NORTH EDGE OF OAKLAND BLVD. N.E. AND APPROXIMATELY 80 FEET EAST OF A CMU WALL AS SHOWN HEREON.

ELEVATION = 5515.76 FEET

T.B.M. #2 A SPIKE WITH JMA RED CAP LOCATED NORTH OF THE SITE AS SHOWN HEREON. ELEVATION = 5522.79 FEET

## LEGEND

CMU	CONCRETE MASONRY UNIT
EA	EDGE OF ASPHALT
NG	NATURAL GROUND
OHC(1)	OVERHEAD COMMUNICATION (NO. OF LINES)
OHC(2)	OVERHEAD ELECTRIC (NO. OF LINES)
TA	TOP OF ASPHALT
TR	TELEPHONE RISER
TW	TOP OF WALL
WPP	WOOD POWER POLE
+ 19.6	EXISTING SPOT ELEVATION
	EXISTING CONTOUR
	EXISTING CONIFEROUS TREE
	PROPOSED ASPHALT PAVEMENT
	PROPOSED CONCRETE
	PROPOSED TEMPORARY PAVEMENT
	PERIMETER WALL
	RIP-RAP (BY CPN 757781)

LOT 34, BLOCK 3 NORTH ALBUQUERQUE AVENUE TRACT 3, UNIT 3 (FILED 09-10-1931, D-121)

THIS IS NOT A BOUNDARY SURVEY. APPARENT PROPERTY CORNERS ARE SHOWN HEREON FOR ORIENTATION PURPOSES ONLY. BOUNDARY AND TOPOGRAPHIC DATA SHOWN HEREON IS FROM A SURVEY DATED 5/09/06 BY THIS OFFICE, NMPS 11184. PROPOSED LOTS AND EASEMENTS ARE FROM THE PRELIMINARY PLAN PREPARED BY THIS OFFICE, NMPS 11184.

ALAMEDA BOULEVARD N.E.

# GRADING PLAN RICH COURT

APPROVED FOR ROUGH GRADING

CITY HYDROLOGY DATE

DESIGNED BY J.D.S./G.M.  
DRAWN BY S.G.H.  
APPROVED BY G.M.

NO.	DATE	BY	REVISIONS

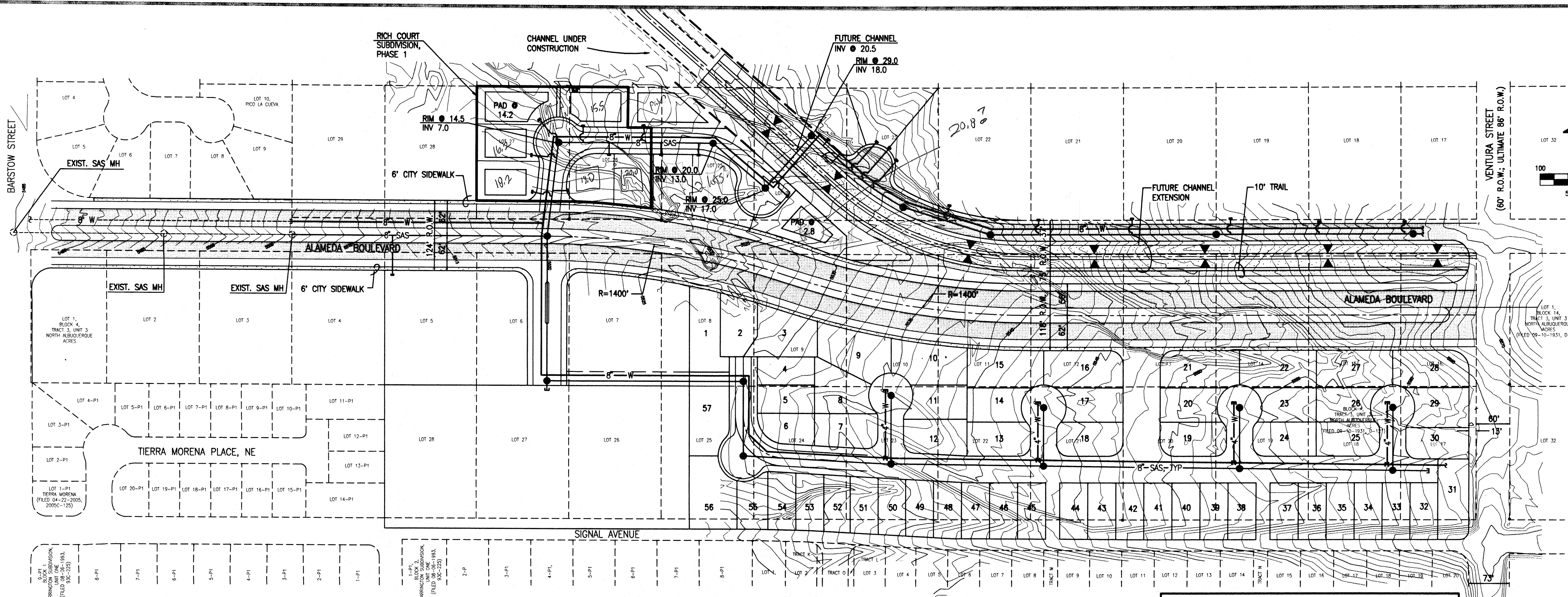
JOB NO. 2005.070.4  
DATE 07-2006  
SHEET 2 OF 4

**Jma** JEFF HORTENSEN & ASSOCIATES, INC.  
6010-B MIDWAY PARK BLVD. N.E.  
ALBUQUERQUE, N.M. 87109  
ENGINEERS & SURVEYORS (CDS) 345-4250  
FAX: 505 345-4254 ESTABLISHED 1977

Plot Path: E:\JMA\2006\2005\2005.070.4\2005.070.4.DWG  
Plot Date: 07-24-2006  
Plot Time: 4:29 pm  
File Name: 50704GR.DWG



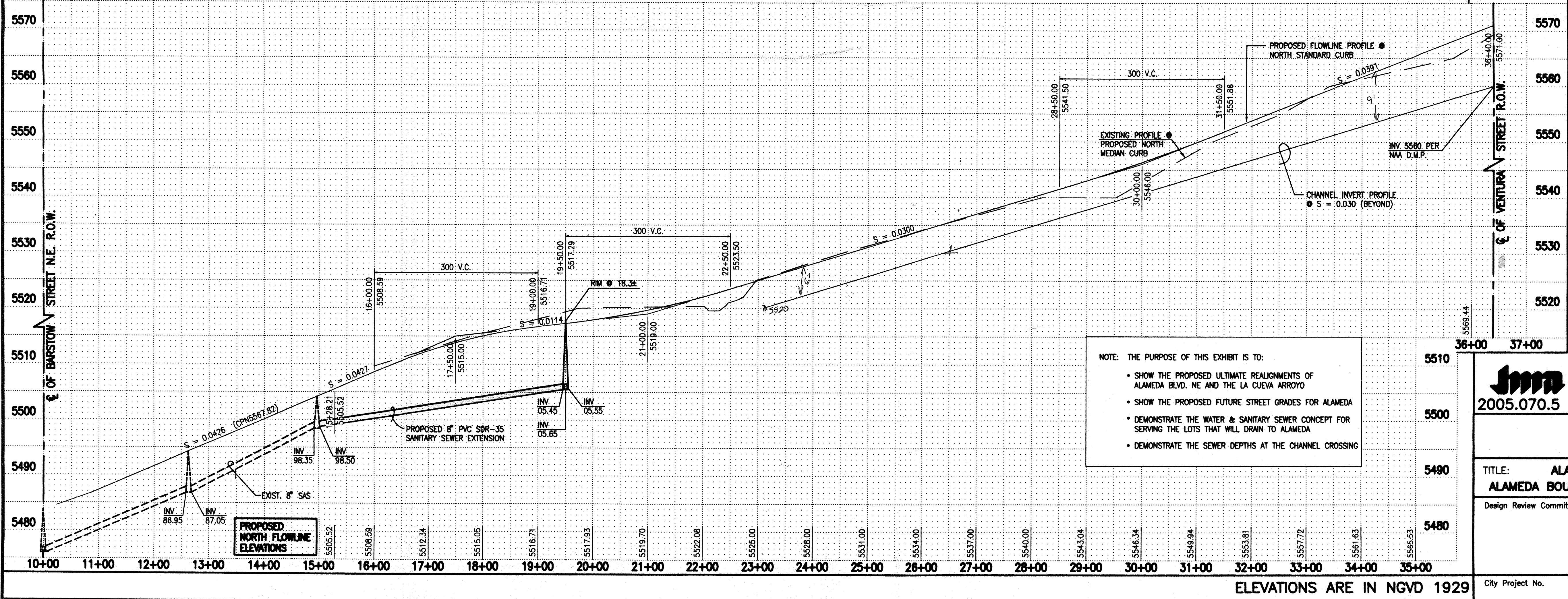
File Path: E:\JMM\ALBUQUERQUE\Plot Date: 07-21-2006  
File Name: 5070422.DWG Plot Time: 09:09 am



### ALAMEDA BLVD N.E.

alignment for Rich Cx  
pad 28  
per height  
in lot 25

**NOTE:**  
THIS IS NOT A BOUNDARY SURVEY. EXISTING LOTTING IS REPRESENTED FROM RECORD PLATTING AND IS SHOWN FOR ORIENTATION PURPOSES ONLY. EXISTING TOPOGRAPHY IS FROM CPN 757781, LA CUEVA CHANNEL. PROPOSED LOTTING IS CONCEPTUAL AND REPRESENTS A POSSIBLE DEVELOPMENT SCENARIO.



**NOTE: THE PURPOSE OF THIS EXHIBIT IS TO:**

- SHOW THE PROPOSED ULTIMATE REALIGNMENTS OF ALAMEDA BLVD. NE AND THE LA CUEVA ARROYO
- SHOW THE PROPOSED FUTURE STREET GRADES FOR ALAMEDA
- DEMONSTRATE THE WATER & SANITARY SEWER CONCEPT FOR SERVING THE LOTS THAT WILL DRAIN TO ALAMEDA
- DEMONSTRATE THE SEWER DEPTHS AT THE CHANNEL CROSSING

**JMM**  
2005.070.5  
JEFF MORTENSEN & ASSOCIATES, INC.  
6801-B HIGHWAY PARK N.E. V.B. NE  
ALBUQUERQUE, N.M. 87109  
ENGINEERS & SURVEYORS (C80) 3445-4250  
FAX: 505 345-4254 ESTABLISHED 1977

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: <b>ALAMEDA BLVD NE PLAN AND PROFILE</b> <b>ALAMEDA BOULEVARD/LA CUEVA ARROYO ALIGNMENT STUDY</b>	
Design Review Committee	City Engineer Approval
City Project No.	Zone Map No.
Sheet	Of
4	4