City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 10, 1994

Mr. Kerry L. Davis, P.E.
Vice President, Community
Development and Planning
Bohannan-Huston
Courtyard I 7500 Jefferson St. N.E.
Albuquerque N.M. 87109

RE: GRADING AND DRAINAGE CERTIFICATION FOR CANYON HILLS SUBDIVISION PHASE I AND II CITY PROJECT 4518

Dear Kerry:

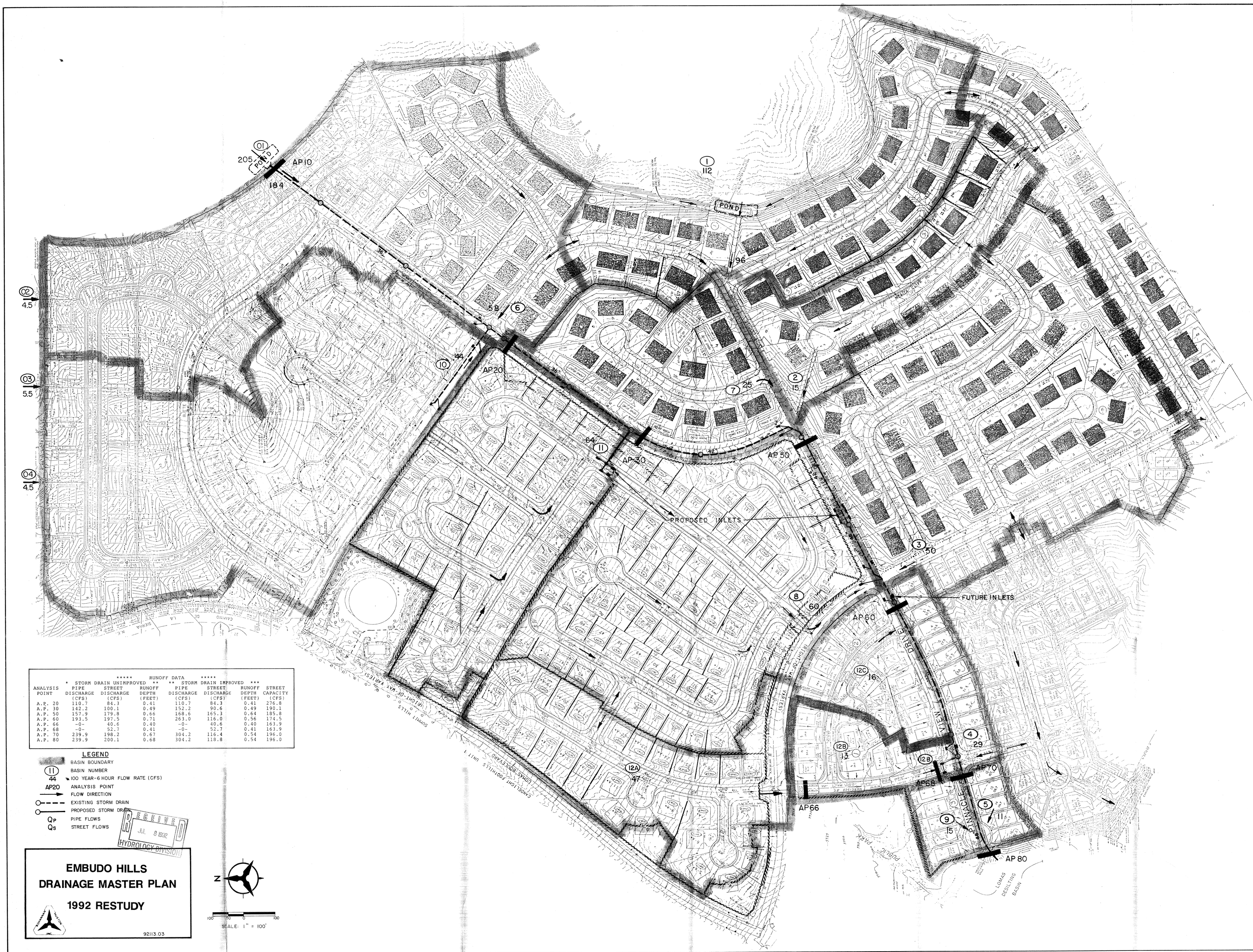
The referenced plan dated April 19, 1994 is approved. The information material submitted to the City by the consultant engineer includes the following. The grading and drainage certification dated April 19, 1994 which includes sheets 4, 5, and 6 of project 4518.91. The letter dated April 20, 1994 from Kerry Davis. And a certification letter dated January 13, 1994 from Mr. Ray Mondragon.

Sincerely,

Carlos Montoya P.E.

c:
Lynda Michelle DeVanti, Engineering Group

THE CITY OF ALBUQUERQUE IS AN EQUAL OPPORTUNITY/REASONABLE ACCOMMODATION EMPLOYER



ANALYSIS POINT	* STORM DRAIN UNIMPROVED ** PIPE DISCHARGE (CFS)	STREET DISCHARGE (CFS)	RUNOFF DEPTH (FEET)	** STORM DRAIN IMPROVED *** PIPE DISCHARGE (CFS)	STREET DISCHARGE (CFS)	RUNOFF DEPTH (FEET)	STREET CAPACITY (CFS)
	***** RUNOFF DATA *****						
A.P. 20	110.7	84.3	0.41	110.7	84.3	0.41	276.8
A.P. 30	142.2	100.1	0.49	152.2	90.6	0.49	190.1
A.P. 50	157.9	179.8	0.66	168.6	165.3	0.64	185.8
A.P. 60	193.5	197.5	0.71	263.0	116.0	0.56	174.5
A.P. 66	-0-	40.6	0.40	-0-	40.6	0.40	163.9
A.P. 68	-0-	52.7	0.41	-0-	52.7	0.41	163.9
A.P. 70	239.9	198.2	0.67	304.2	116.4	0.54	196.0
A.P. 80	239.9	200.1	0.68	304.2	118.8	0.54	196.0

LEGEND

- BASIN BOUNDARY
- (11) BASIN NUMBER
- 44 100 YEAR-6 HOUR FLOW RATE (CFS)
- AP20 ANALYSIS POINT
- FLOW DIRECTION
- EXISTING STORM DRAIN
- PROPOSED STORM DRAIN
- Q_P PIPE FLOWS
- Q_S STREET FLOWS

RECEIVED
JUL 8 1992
HYDROLOGY DIVISION

EMBUDO HILLS
DRAINAGE MASTER PLAN
1992 RESTUDY

BOHANNAN HUSTON INC.

92113.03

N

100 50 0 100

SCALE: 1" = 100'

GRADING AND DRAINAGE CERTIFICATION

I, KERRY L. DAVIS, P.E. #9984, HAVE PERSONALLY VISITED THE SITE, AND HEREBY CERTIFY THAT SITE GRADING, PAVING, AND DRAINAGE IMPROVEMENTS ARE CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THIS APPROVED GRADING AND DRAINAGE PLAN, TO ALLOW THE IMPLEMENTATION OF THE DRAINAGE PATTERNS AND REQUIREMENTS IDENTIFIED HEREIN. AS-BUILT FINISHED FLOOR, PAD, WALL, CURB, SPOT, RIM AND INVERT ELEVATIONS WERE VERIFIED BY FIELD SURVEYS PERFORMED BY BOHANNAN-HUSTON INC. DURING JANUARY AND MARCH, 1994. THIS STATEMENT DOES NOT REPRESENT CERTIFICATION OF CONTRACTORS CONSTRUCTION METHODS OR MATERIALS.

KERRY L. DAVIS — NEW MEXICO — 9984 — PROFESSIONAL ENGINEER — 4-19-94

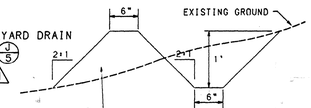
GENERAL NOTES

1. CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR IS TO REFER TO EARTHWORK SPECIFICATONS AS NOTED IN THE SOILS REPORT SUPPLIED BY CENTEX HOMES.
3. THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE AND FEDERAL DUST CONTROL MEASURES AND REQUIREMENTS AND WILL BE RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS AND APPROVALS.
4. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOTS INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AS PER DETAIL THIS SHEET AND WETTING THE SOIL TO KEEP IT FROM BLOWING.
5. THE TOLERANCES FOR ROUGH GRADING SHALL CONFORM TO TO THE FOLLOWING:

   PAD SUBGRADE: +/- 0.2'
   STREET SUBGRADE: +/- 0.2'
   ALL OTHER AREAS: +/- 0.5'

6. RETAINING WALLS TO BE CONSTRUCTED UNDER THESE WORK ORDER PLAN IMPROVEMENTS WITH FINAL GRADING, DRAINAGE, UTILITY AND STREET CONSTRUCTION. FOR WALL PLAN AND DETAILS, SEE SHEET 16.
7. FOR GRADING AND DRAINAGE DETAILS, SEE SHEET 5.
8. PHASE BOUNDARIES ARE FOR STREET PAVING AND UTILITY CONSTRUCTION ONLY. FINE GRADING FOR PHASE 1 AND ROUGH GRADING FOR PHASE 2 SHALL BE DONE UNDER PHASE 1 CONTRACT. FINAL GRADING OF PHASE 2 SHALL BE DONE UNDER PHASE 2 CONTRACT.
9. DURING PHASE 1 ROUGH GRADING OF THE PHASE 2 PORTION OF THE SITE, TEMPORARY 3:1 SLOPES SHALL BE CONSTRUCTED AT FUTURE PHASE 2 RETAINING WALL LOCATIONS IN LIEU OF THE WALLS. DURING PHASE 2 FINAL GRADING, THE 3:1 SLOPES SHALL BE REPLACED BY RETAINING WALLS PER THIS PLAN.
10. BACKYARD DRAIN TO BE PROVIDED AS DESIGNATED. PROPERTY OWNER TO MAINTAIN BACKYARD DRAIN. SEE SHEET 16 FOR DRAIN DETAIL.
11. EXCEPT AS NOTED, HOUSES SHALL BE LOCATED 5' FROM UPHILL PROPERTY LINE.

INSTALL BACKYARD DRAIN PER DETAIL ⑤ ON EACH LOT ⑤ TYPICAL.



EROSION CONTROL BERM

NO SCALE

A BERM WITH THE DIMENSIONS SHOWN SHALL BE MAINTAINED DURING CONSTRUCTION UNTIL COMPLETION OF INDIVIDUAL HOMES WITHIN THE PROJECT. BERM SHALL BE LOCATED AS SHOWN ON THIS PLAN AND ON TYPICAL LOT DETAIL, SHEET 5.

LEGEND

- PROJECT BOUNDARY
- EXISTING CONTOUR
- EXISTING SPOT ELEVATION 025.42
- PROPOSED SPOT ELEVATION ●25.42
- DIRECTION OF FLOW
- PHASE BOUNDARY
- EXISTING RETAINING WALL
- PROPOSED RETAINING WALL
- EXISTING STORM DRAIN LINE —SD—
- EXISTING STORM DRAIN MANHOLE
- EXISTING STORM DRAIN INLET
- PROPOSED STORM DRAIN LINE —SD—
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN INLET
- PROPOSED EROSION CONTROL BERM
- PROPOSED BACKYARD DRAIN
- LOT WITH 55'x55' PAD *

THIS STAMP IS FOR PHASE 2 ONLY

BERNALILLO COUNTY TREASURER'S OFFICE — APR 20 1994

BHI JOB NO. 93164.01

AS BUILT INFORMATION
CONTRACTOR
WORK INSPECTED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
VERIFICATION BY — DATE
CORRECTIONS ENTERED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
THE BENCHMARK IS THE ACS STATION 21-J23.
ELEV. 6017.266. MONUMENT IS AN ALUMINUM DISK EPOXIED TO THE TOP OF THE CURB AT THE ENE CURB RETURN AT THE NE CORNER OF THE INTERSECTION OF PINNACLE VIEW AND VILLA SANDIA ROAD N.E.

SURVEY INFORMATION
FIELD NOTES — NO. — BY — DATE

ENGINEERS SEAL
KERRY L. DAVIS — NEW MEXICO — 9984 — REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
2	5/21/93	MODIFIED WALL GRADING	KD
1	5/19/93	ADDED NEW RETAINING WALL SECTION CUTS, CHANGED DETAIL DESIGNATION (5&6) TO (16)	KD

REVISIONS

	DESIGN	DATE
DESIGNED BY	RLB	7/92
DRAWN BY	MM.SAR	7/92
CHECKED BY	RLB	7/92

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: CANYON HILLS SUBDIVISION, PHASE 2 DRAINAGE AND GRADING PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	[signature]	6-7-93	WATER	N/A RWK	5-11-93
TRANS. DEV.	N/A [illegible]	5-26-93	WASTE WATER	N/A RWK	5-11-93
HYDROLOGY	CAM	5-11-93			

PROJECT NO. 4518.91 | MAP NO. J-23 | SHEET 4 OF 16

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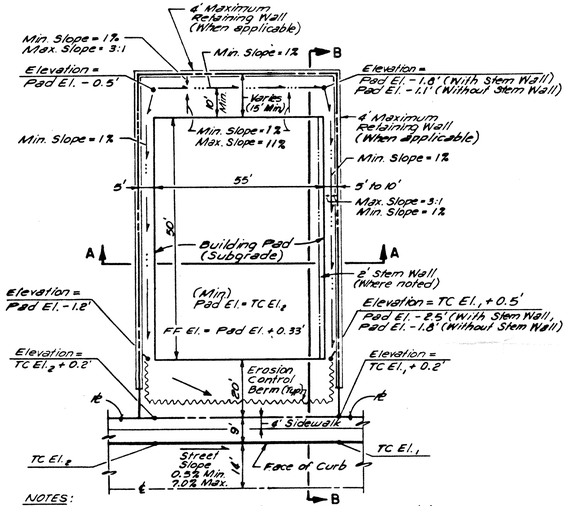
FILENAME: GRADE2.ORF



NOTES:

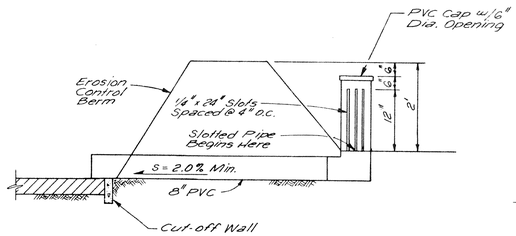
1. Side and rear-yard drainage allowed when side or rear-yard is adjacent to R.O.W. Weep holes shall be provided in side or rear property walls when walls are adjacent to R.O.W..
2. Driveway Slope = 10% Max.
3. No cross-lot drainage allowed except as noted.

TYPICAL LOT GRADING
NOT TO SCALE

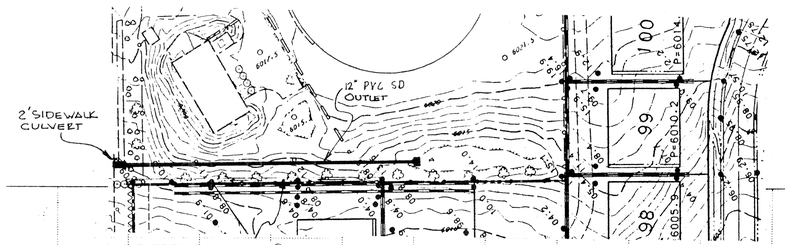
SECTION "A-A"

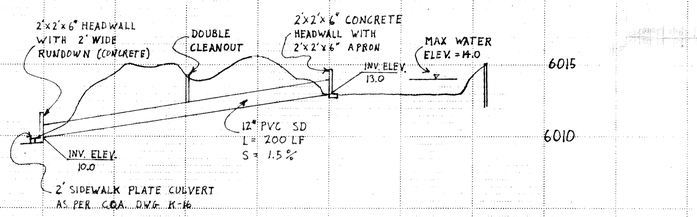
SECTION "B-B"

TYPICAL LOT GRADING
NOT TO SCALE

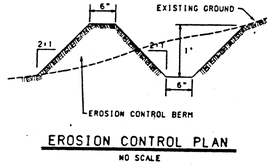


STANDPIPE DETAIL
NO SCALE



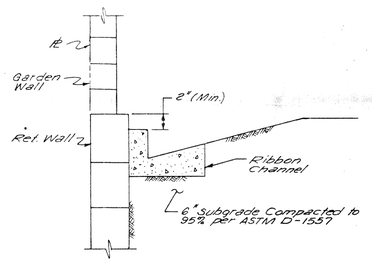


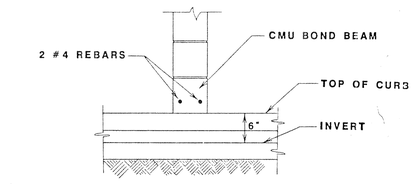
DETENTION POND OUTLET STRUCTURE
SCALE: VERT 1":5' HORZ. 1":50'



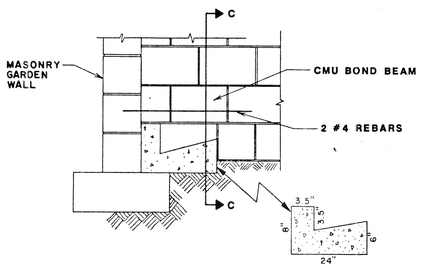
EROSION CONTROL PLAN
NO SCALE

A BERM WITH THE DIMENSIONS SHOWN SHALL BE MAINTAINED DURING CONSTRUCTION UNTIL COMPLETION OF INDIVIDUAL HOMES WITHIN THE PROJECT.





SECTION C-C



REAR YARD RUNDOWN DETAILS

RECEIVED
JUL 8 1992
HYDROLOGY DIVISION

AS-BUILT INFORMATION

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

MICRO-FILM INFORMATION

RECORDED BY _____ DATE _____
NO. _____

BENCH MARKS

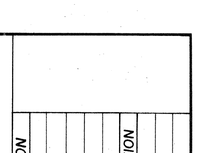
BENCH MARK No. 11-J23
At the Northwest corner of the intersection of Lomas Blvd. and Monte Largo Drive NE.
An ACS 1 3/4" aluminum disk stamped "ACS BM, 11-J23", epoxied to the top of the curb at the NW Curb return. Elevation 5928.316

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL



NO.	DATE	REMARKS	BY

REVISIONS

DESIGN
DESIGNED BY _____ DATE _____
DRAWN BY _____ DATE _____
CHECKED BY _____ DATE _____

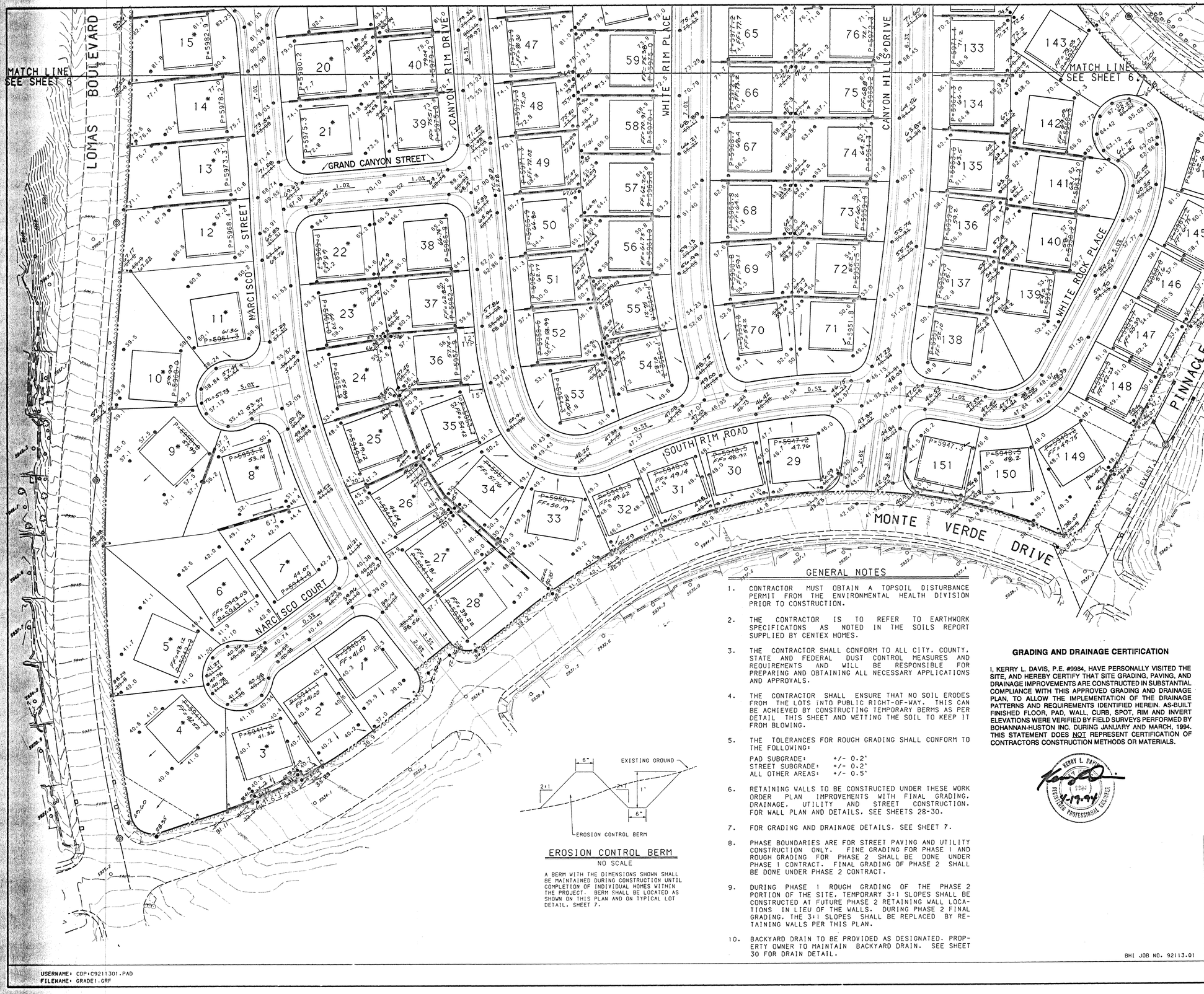
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: CANYON HILLS SUBDIVISION
DRAINAGE & GRADING DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY					
PARKS					

DRAWING NO. | MAP NO. J-23 | SHEET OF

J MAR 44-232



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7. FOR GRADING AND DRAINAGE DETAILS, SEE SHEET 7.
8. PHASE BOUNDARIES ARE FOR STREET PAVING AND UTILITY CONSTRUCTION ONLY. FINE GRADING FOR PHASE 1 AND ROUGH GRADING FOR PHASE 2 SHALL BE DONE UNDER PHASE 1 CONTRACT. FINAL GRADING OF PHASE 2 SHALL BE DONE UNDER PHASE 2 CONTRACT.
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10. BACKYARD DRAIN TO BE PROVIDED AS DESIGNATED. PROPERTY OWNER TO MAINTAIN BACKYARD DRAIN. SEE SHEET 30 FOR DRAIN DETAIL.

EROSION CONTROL BERM

NO SCALE

A BERM WITH THE DIMENSIONS SHOWN SHALL BE MAINTAINED DURING CONSTRUCTION UNTIL COMPLETION OF INDIVIDUAL HOMES WITHIN THE PROJECT. BERM SHALL BE LOCATED AS SHOWN ON THIS PLAN AND ON TYPICAL LOT DETAIL. SHEET 7.

GRADING AND DRAINAGE CERTIFICATION

I, KERRY L. DAVIS, P.E. #9984, HAVE PERSONALLY VISITED THE SITE, AND HEREBY CERTIFY THAT SITE GRADING, PAVING, AND DRAINAGE IMPROVEMENTS ARE CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THIS APPROVED GRADING AND DRAINAGE PLAN, TO ALLOW THE IMPLEMENTATION OF THE DRAINAGE PATTERNS AND REQUIREMENTS IDENTIFIED HEREIN. AS-BUILT FINISHED FLOOR, PAD, WALL, CURB, SPOT, RIM AND INVERT ELEVATIONS WERE VERIFIED BY FIELD SURVEYS PERFORMED BY BOHANNAN-HUSTON INC. DURING JANUARY AND MARCH, 1994. THIS STATEMENT DOES NOT REPRESENT CERTIFICATION OF CONTRACTORS CONSTRUCTION METHODS OR MATERIALS.

KERRY L. DAVIS — 9984 — REGISTERED PROFESSIONAL ENGINEER — 4-19-94

BHI JOB NO. 92113.01

LEGEND

PROJECT BOUNDARY	
EXISTING CONTOUR	
EXISTING SPOT ELEVATION	025.42
PROPOSED SPOT ELEVATION	●25.42
DIRECTION OF FLOW	
PHASE BOUNDARY	
PROPOSED STEM WALL	
PROPOSED RETAINING WALL	
EXISTING STORM DRAIN LINE	SD
EXISTING STORM DRAIN MANHOLE	◎
EXISTING STORM DRAIN INLET	□
PROPOSED STORM DRAIN LINE	SD
PROPOSED STORM DRAIN MANHOLE	◎
PROPOSED STORM DRAIN INLET	■
PROPOSED EROSION CONTROL BERM	
PROPOSED BACKYARD DRAIN	●
LOT WITH 55'x55' PAD	*

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

BENCH MARKS

THE BENCHMARK IS THE ACS STATION 21-J23.
ELEV. 6017.266. MONUMENT IS AN ALUMINUM DISK EPOXIED TO THE TOP OF THE CURB AT THE ENE CURB RETURN AT THE NE CORNER OF THE INTERSECTION OF PINNACLE VIEW AND VILLA SANDIA ROAD N.E.

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY — DATE
INSPECTED BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

ENGINEERS SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	RLB
		DATE	7/92
		DRAWN BY	MM.SAR
		DATE	7/92
		CHECKED BY	RLB
		DATE	7/92

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: CANYON HILLS SUBDIVISION
DRAINAGE AND GRADING PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair		9-9-92	WATER	N/A RWK	8-27-92
TRANS. DEV.	N/A CAD	8-18-92	WASTE WATER	N/A RWK	8-27-92
HYDROLOGY	CAM	8-8-92	NMUI		
PARKS					

PROJECT NO. 4518.90 | MAP NO. J-23 | SHEET OF 30

APR 20 1994
HYDROLOGY DIVISION

USERNAME: CDP:C9211301.PAD
FILENAME: GRADE1.GRF

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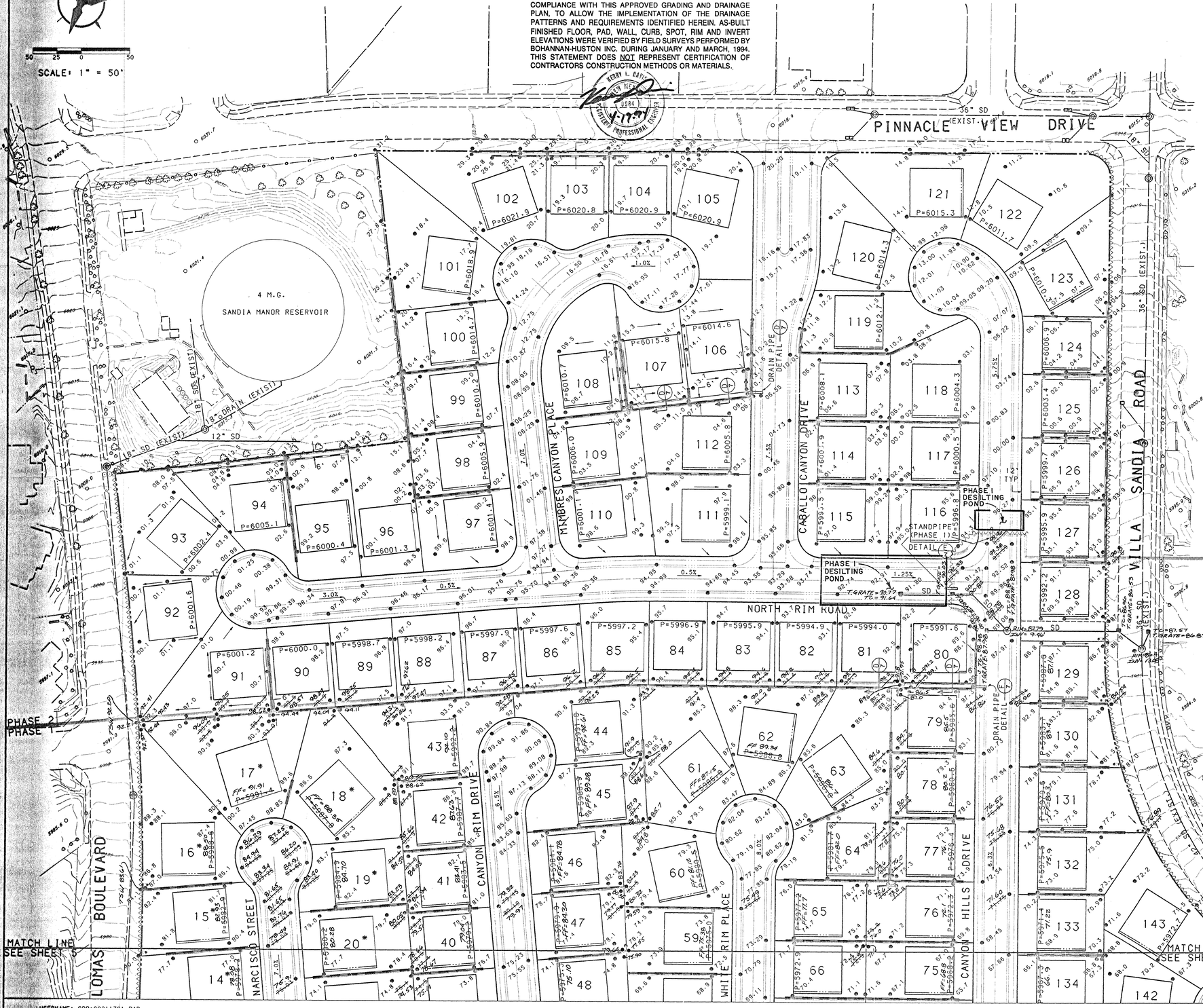
KERRY L. DAVIS 9984 REGISTERED PROFESSIONAL ENGINEER 4-17-94

N

50 25 0 50

SCALE: 1" = 50'



USERNAME: COP\C9211301.PAD
FILENAME: GRADE2.GRF

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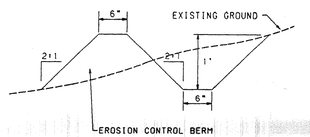

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PROPOSED EROSION CONTROL BERM	
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LOT WITH 55'x55' PAD	

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

BENCH MARKS

THE BENCHMARK IS THE ACS STATION 21-J23.
ELEV. 6017.266. MONUMENT IS AN ALUMINUM DISK EPOXIED TO THE TOP OF THE CURB AT THE ENE CURB RETURN AT THE NE CORNER OF THE INTERSECTION OF PINNACLE VIEW AND VILLA SANDIA ROAD N.E.

AS BUILT INFORMATION

CONTRACTOR	DATE
STAKED BY	
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD LOCATION BY	DATE
VERIFICATION BY	
CORRECTED BY	DATE

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

ENGINEERS SEAL

KERRY L. DAVIS 9984 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGNED BY	RLB	DATE 7/92
DRAWN BY	NM, SAR	DATE 7/92
CHECKED BY	RLB	DATE 7/92

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: CANYON HILLS SUBDIVISION
DRAINAGE AND GRADING PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	Ronald Bohannan	9-9-92	WATER	N/A RWK	8-27-92
TRANS. DEV.	N/A RWK	8-13-92	WASTE WATER	N/A RWK	8-27-92
HYDROLOGY	CHM	8-8-92			

PROJECT NO. 4518.90 | MAP NO. J-23 | SHEET 6 OF 30