PUBLIC WORKS/HYDROLOGY

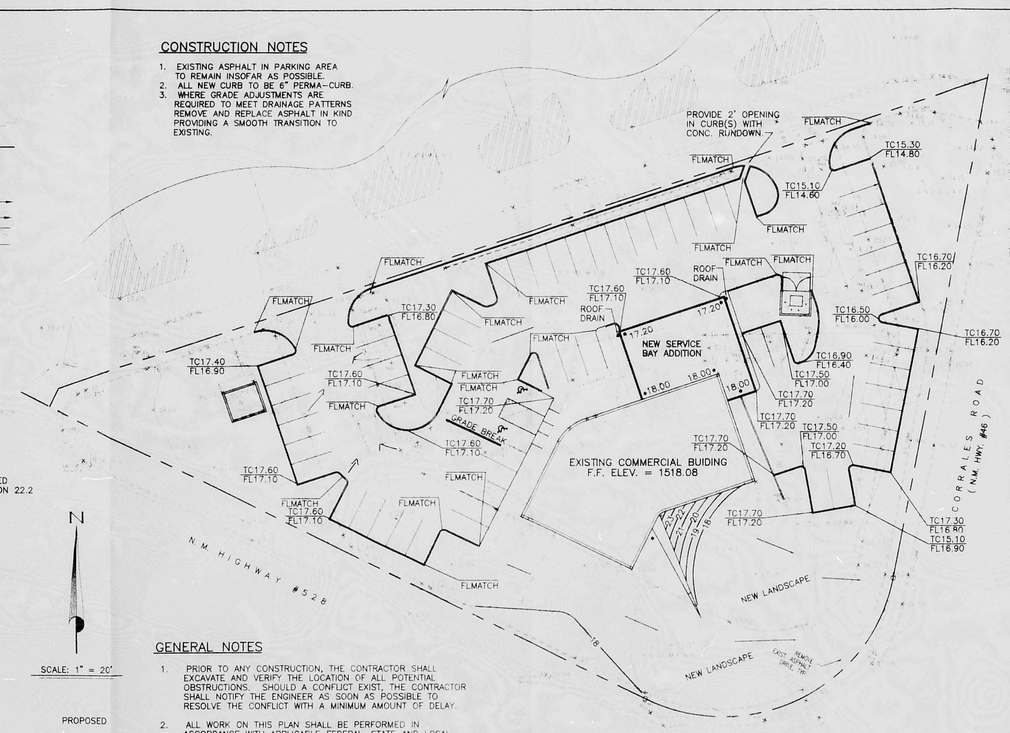
A14/D1A

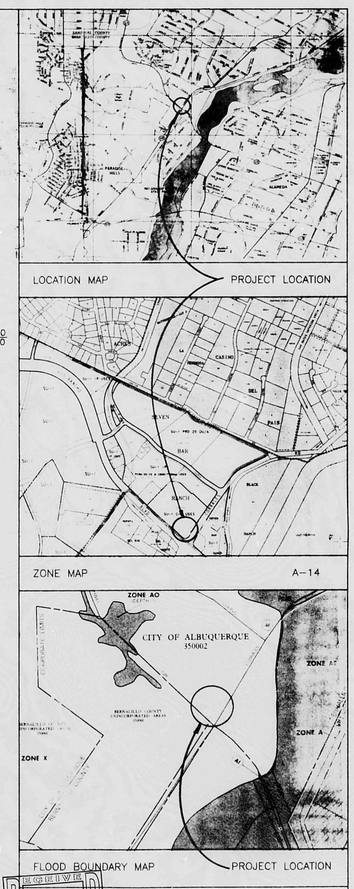
GENERAL LEGEND

EXISTING CONTOUR	
PROPOSED CONTOUR	24
EXISTING SPOT ELEVATION	× 56.5
PROPOSED SPOT ELEVATION	56.4
FLOWLINE	
FLOW DIRECTION ARROW	
PROPOSED CONCRETE	
TOP OF CURB ELEVATION	TC
TOP OF WALL ELEVATION	TW
FLOWLINE ELEVATION	FL
TOP OF ASPHALT	TA
POWER POLE	PP
ROOF DRAIN/DOWN SPOUT	D.S.

CONSTRUCTION NOTES

1. EXISTING ASPHALT IN PARKING AREA TO REMAIN INSOFAR AS POSSIBLE.
2. ALL NEW CURB TO BE 6" PERMA-CURB.
3. WHERE GRADE ADJUSTMENTS ARE REQUIRED TO MEET DRAINAGE PATTERNS REMOVE AND REPLACE ASPHALT IN KIND PROVIDING A SMOOTH TRANSITION TO EXISTING.





CALCULATIONS

THE FOLLOWING CALCULATIONS WERE DEVELOPED USING THE CITY OF ALBUQUERQUE DPM SECTION 22.2

SITE CHARACTERISTICS:
SITE LOCATION: ZONE 1
PRECIPITATION: P = 2.20 inches

LAND TREATMENT:
UNCOMPACTED SOIL – TREATMENT A
LANDSCAPE – TREATMENT B
COMPACTED SOIL – TREATMENT C
BUILDINGS & PAVING – TREATMENT D

EXCESS PRECIPITATION:
TREATMENT A E = 0.44 inches
TREATMENT B E = 0.67 inches
TREATMENT C E = 0.99 inches
TREATMENT D E = 1.97 inches

PEAK DISCHARGE:
TREATMENT A = 1.29 cfs/acre
TREATMENT B = 2.03 cfs/acre
TREATMENT C = 2.87 cfs/acre
TREATMENT D = 4.37 cfs/acre

SCALE: 1" = 20'

		EXISTING	PROPOSED
TOTAL AREA	= 1.355 AC.		
TREATMENT A	= 0.00 AC.	= 0.0%	0.00 AC. = 0.0%
TREATMENT B	= 0.569 AC.	= 42.0%	0.692 AC. = 51.1%
TREATMENT C	= 0.00 AC.	= 0.0%	0.00 AC. = 0.0%
TREATMENT D	= 0.786 AC.	= 58.0%	0.663 AC. = 48.9%

ONSITE – EXCESS PRECIPITATION & VOLUMETRIC RUNOFF:
EXISTING RUNOFF:
WEIGHTED E=[(0.44)(0.00)+(0.67)(0.569)+(0.99)(0.00)+(1.97)(0.786)]/1.355
= 1.42 inches
V100-6hr = (1.42)(1.355)/12 = 0.1608 acre ft = 7,000 cf
DEVELOPED RUNOFF:
WEIGHTED E=[(0.44)(0.00)+(0.67)(0.692)+(0.99)(0.00)+(1.97)(0.663)]/1.355
= 1.31 inches
V100-6hr = (1.31)(1.355)/12 = 0.1475acre ft = 6,425 cf

ONSITE – PEAK DISCHARGE:
EXISTING DISCHARGE:
Q100 = (1.29)(0.00)+(2.03)(0.569)+(2.87)(0.00)+(4.37)(0.786) = 4.59 cfs
DEVELOPED DISCHARGE:
Q100 = (1.29)(0.00)+(2.03)(0.692)+(2.87)(0.00)+(4.37)(0.663) = 4.30 cfs

RESULTS:

DEVELOPED VOLUMETRIC RUNOFF:
7,700 – 6,425 = 575 cf DECREASE IN RUNOFF VOLUME
DEVELOPED PEAK DISCHARGE:
4.59 – 4.30 = 0.29 cfs DECREASE IN PEAK DISCHARGE

GENERAL NOTES

1. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AS SOON AS POSSIBLE TO RESOLVE THE CONFLICT WITH A MINIMUM AMOUNT OF DELAY.
2. ALL WORK ON THIS PLAN SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
3. IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE LOCATION ONLY, AND LINES MAY EXIST WHERE NONE ARE SHOWN. THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE UTILITY OWNER OR FROM EXISTING PLANS, AND THIS INFORMATION MAY BE INCOMPLETE, OR OBSOLETE AT THE TIME OF CONSTRUCTION. THE ENGINEER HAS NOT UNDERTAKEN ANY FIELD VERIFICATION OF THESE LOCATIONS, LINE SIZES OR MATERIAL TYPE. MAKES NO REPRESENTATION THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE OR UNDERGROUND INSTALLATION IN OR NEAR THE AREA IN ADVANCE OF AND DURING ANY EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES AND UNDERGROUND FACILITIES. IN PLANNING AND CONDUCTING EXCAVATIONS, THE CONTRACTOR SHALL COMPLY WITH ALL STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
4. THE CONTRACTOR SHALL INSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHTS-OF-WAY OR ONTO PRIVATE PROPERTY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AND BY WETTING THE SOIL TO KEEP IT FROM BLOWING.
5. THE CONTRACTOR SHALL OBTAIN ANY AND ALL PERMITS REQUIRED BY THE CITY OF ALB. FOR THE COMPLETION OF THE WORK PRIOR TO BEGINNING CONSTRUCTION.

DRAINAGE PLAN

THIS SITE IS LOCATED ON THE SOUTHWEST CORNER OF THE CORRALES SHOPPING CENTER. THE EXISTING STRUCTURE OPERATED AS A BANK. THE PROPOSED PLAN IS TO CHANGE ITS USE TO A RETAIL ESTABLISHMENT WITH A 1,600 SF ADDITION. THE ENTIRE DRIVE-THRU LANE WILL BE REMOVED. ALL THE PARKING WILL BE RECONFIGURED.

AS SHOWN ON PANEL 109 OF THE FLOOD INSURANCE RATE MAP, THIS SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD AREA.

THE EXISTING SURVEY INFORMATION SHOWN HEREON WAS PREPARED FROM A FIELD SURVEY DONE BY RIO GRANDE SURVEYING CO., INC. IN NOVEMBER OF 1997. A SUBSEQUENT FIELD REVIEW BY THIS OFFICE REVEALED THAT THE INFORMATION SHOWN IS CONSISTENT WITH THE ACTUAL CONDITIONS THAT EXIST IN THE FIELD.

LEGAL DESCRIPTION

TRACT A1-1A BLACK RANCH CORRALES SHOPPING CENTER.

BENCH MARK

ALBUQUERQUE CONTROL STATION BENCH MARK MON. "6-B14". AN ALUMINUM DISK SET ON TOP OF BASE OF GALV. STEEL PWR. POLE AT THE S.E. QUAD. INTX. OF COORS & ALAMEDA BLVD. ELEVATION = 5019.57

KEMP JONES NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 10262
11/7/97

RECEIVED NOV 07 1997 HYDROLOGY SECTION

AUDIO EXPRESS
GRADING AND DRAINAGE PLAN

KEMPER-VAUGHAN
CONSULTING ENGINEERS
3700 COORS RD N.W. • ALBUQUERQUE, NEW MEXICO 87120 • (505) 831-4520

Designed	KRK	Drawn		Checked	KRK	Sheet	1 of 1
File	BANK	Date	NOVEMBER 1997				

R# 22 DATE 3-13-02 OP

CITY OF ALBUQUERQUE

This microimage is certified to be a complete and accurate copy of the original as it appears in the files of the Public Works Department and was created in the normal course of business.

The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (MS1A5-1977)

DIRECTOR

PLAN SHOT TWICE ONCE ON LIGHT ONCE ON DARK

CITY OF ALBUQUERQUE THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT.

NOTARY PUBLIC

OFFICIAL SEAL Roberta Duran NOTARY PUBLIC STATE OF NEW MEXICO My Commission Expires 07/03/02

PLANS/PLATS ON FILE

FILE DESC: A14/DIA

PLANS/PLATS 2

E 30 D 24 C 20 B 16 A 12

CITY OF ALBUQUERQUE C D F

GENERAL LEGEND

EXISTING CONTOUR	
PROPOSED CONTOUR	24
EXISTING SPOT ELEVATION	
PROPOSED SPOT ELEVATION	56.4
FLOWLINE	
FLOW DIRECTION ARROW	
PROPOSED CONCRETE	
TOP OF CURB ELEVATION	TC
TOP OF WALL ELEVATION	TW
FLOWLINE ELEVATION	FL
TOP OF ASPHALT	TA
POWER POLE	PP
ROOF DRAIN/DOWN SPOUT	D/S

CALCULATIONS

THE FOLLOWING CALCULATIONS WERE DEVELOPED USING THE CITY OF ALBUQUERQUE DPM SECTION 22.2

SITE CHARACTERISTICS:
SITE LOCATION: ZONE 1
PRECIPITATION: $P_1 = 2.20$ inches

LAND TREATMENT:
UNCOMPACTED SOIL – TREATMENT A
LANDSCAPE – TREATMENT B
COMPACTED SOIL – TREATMENT C
BUILDINGS & PAVING – TREATMENT D

EXCESS PRECIPITATION:
TREATMENT A $E_a = 0.44$ inches
TREATMENT B $E_b = 0.67$ inches
TREATMENT C $E_c = 0.99$ inches
TREATMENT D $E_d = 1.97$ inches

PEAK DISCHARGE:
TREATMENT A = 1.29 cfs/acre
TREATMENT B = 2.03 cfs/acre
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SCALE: 1" = 20'

		EXISTING		PROPOSED	
TOTAL AREA	= 1.355 AC.				
TREATMENT A	= 0.00 AC.	= 0.0%		0.00 AC.	= 0.0%
TREATMENT B	= 0.569 AC.	= 42.0%		0.692 AC.	= 51.1%
TREATMENT C	= 0.00 AC.	= 0.0%		0.00 AC.	= 0.0%
TREATMENT D	= 0.786 AC.	= 58.0%		0.663 AC.	= 48.9%

ONSITE – EXCESS PRECIPITATION & VOLUMETRIC RUNOFF:
EXISTING RUNOFF:
WEIGHTED $E = [(0.44)(0.00)+(0.67)(0.569)+(0.99)(0.00)+(1.97)(0.786)]/1.355$
$= 1.42$ inches
$V100\text{-}6hr = (1.42)(1.355)/12 = 0.1608$ acre ft = 7,000 cf
DEVELOPED RUNOFF:
WEIGHTED $E = [(0.44)(0.00)+(0.67)(0.692)+(0.99)(0.00)+(1.97)(0.663)]/1.355$
$= 1.31$ inches
$V100\text{-}6hr = (1.31)(1.355)/12 = 0.1475$ acre ft = 6,425 cf

ONSITE – PEAK DISCHARGE:
EXISTING DISCHARGE:
$Q100 = (1.29)(0.00)+(2.03)(0.569)+(2.87)(0.00)+(4.37)(0.786) = 4.59$ cfs
DEVELOPED DISCHARGE:
$Q100 = (1.29)(0.00)+(2.03)(0.692)+(2.87)(0.00)+(4.37)(0.663) = 4.30$ cfs

RESULTS:

DEVELOPED VOLUMETRIC RUNOFF:
7,700 – 6,425 = 575 cf DECREASE IN RUNOFF VOLUME
DEVELOPED PEAK DISCHARGE:
4.59 – 4.30 = 0.29 cfs DECREASE IN PEAK DISCHARGE

CONSTRUCTION NOTES

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DRAINAGE PLAN

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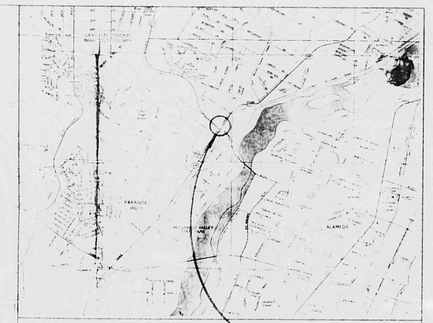
LEGAL DESCRIPTION

TRACT A1-1A BLACK RANCH
CORRALES SHOPPING CENTER

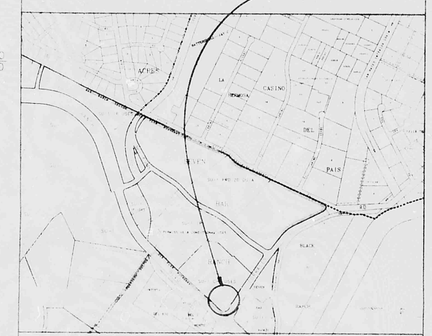
BENCH MARK

ALBUQUERQUE CONTROL STATION BENCH MARK MON. "6-B14".
AN ALUMINUM DISK SET ON TOP OF BASE OF GALV. STEEL PWR POLE AT THE S.E. QUAD. INTX. OF COORS & ALAMEDA BLVD.
ELEVATION = 5019.57

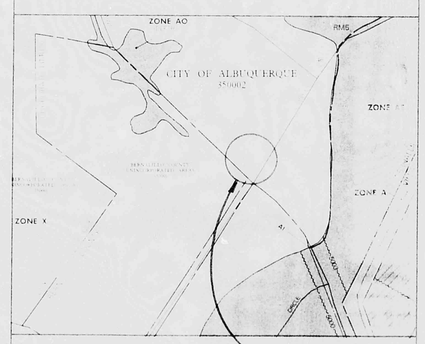
11/7/97



LOCATION MAP — PROJECT LOCATION



ZONE MAP — A-14



FLOOD BOUNDARY MAP — PROJECT LOCATION

R D 08 03 98 11:47 AM NOV 07 1997 HYDROLOGY SECTION

AUDIO EXPRESS
GRADING AND DRAINAGE PLAN

KEMPER–VAUGHAN
CONSULTING ENGINEERS
2100 COORS RD. N.W. • ALBUQUERQUE, NEW MEXICO 87120 • (505) 831-4551

Designed KRK	Drawn	Checked KRK	Sheet 1 of 1
File BANK	Date NOVEMBER 1997		

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
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R# 23 DATE 3-13-02 OP ESP

CITY OF ALBUQUERQUE

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DIRECTOR

NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
STATE OF NEW MEXICO
07/03/02

D 24 C 20 B 16 A 12 CITY OF ALBUQERQUE C D

GENERAL LEGEND

EXISTING CONTOUR	
PROPOSED CONTOUR	24
EXISTING SPOT ELEVATION	48.50
PROPOSED SPOT ELEVATION	56.4
FLOWLINE	
FLOW DIRECTION ARROW	
PROPOSED CONCRETE	
TOP OF CURB ELEVATION	TC
TOP OF WALL ELEVATION	TW
FLOWLINE ELEVATION	FL
TOP OF ASPHALT	TA
POWER POLE	PP
ROOF DRAIN/DOWN SPOUT	D.S.
AS BUILT MEASUREMENTS 4/13/98	TC XX.XX TA XX.XX

CALCULATIONS

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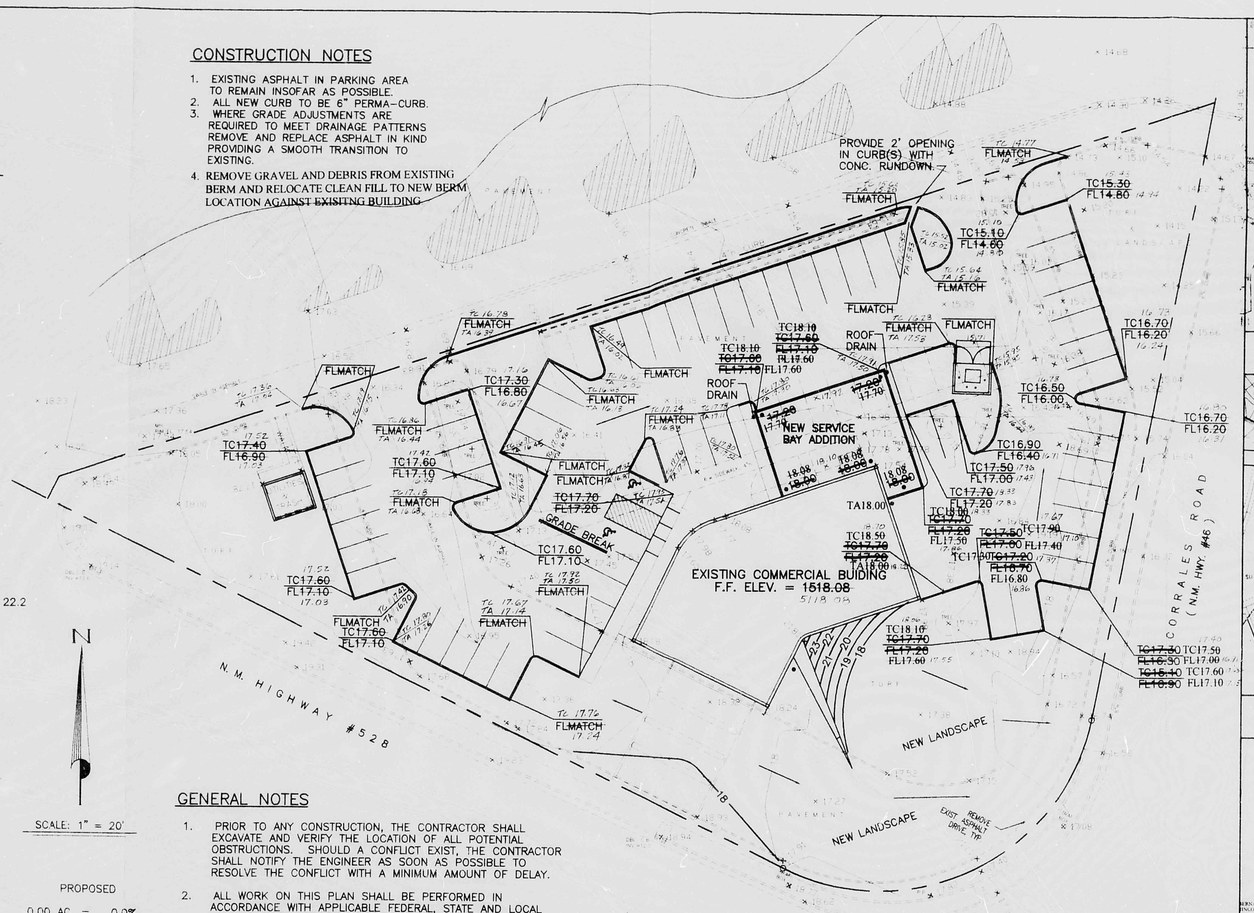
2. ALL NEW CURB TO BE 6" PERMA-CURB.
3. WHERE GRADE ADJUSTMENTS ARE REQUIRED TO MEET DRAINAGE PATTERNS REMOVE AND REPLACE ASPHALT IN KIND PROVIDING A SMOOTH TRANSITION TO EXISTING.
4. REMOVE GRAVEL AND DEBRIS FROM EXISTING BERM AND RELOCATE CLEAN FILL TO NEW BERM LOCATION AGAINST EXISTING BUILDING.



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DRAINAGE PLAN

THIS SITE IS LOCATED ON THE SOUTHWEST CORNER OF THE CORRALES SHOPPING CENTER. THE EXISTING STRUCTURE OPERATED AS A BANK. THE PROPOSED PLAN IS TO CHANGE ITS USE TO A RETAIL ESTABLISHMENT WITH A 1,600 SF ADDITION. THE ENTIRE DRIVE-THRU LANE WILL BE REMOVED. ALL THE PARKING WILL BE RECONFIGURED.

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4/14/98

THE SITE IS IN SUBSTANCIAL COMPLIANCE WITH THE APPROVED GRADING AND DRAINAGE PLAN WITH ENGINEER'S SEAL DATED 11-7-97 (WITH THE REVISIONS AS REFLECTED IN THE RECORD DRAWING ELEVATIONS SHOWN HEREON). THE SITE DRAINAGE WILL FUNCTION AS ORIGINALLY PROPOSED.

KIM P. KEMPER NEW MEXICO 10541 REGISTERED PROFESSIONAL ENGINEER

11/7/97

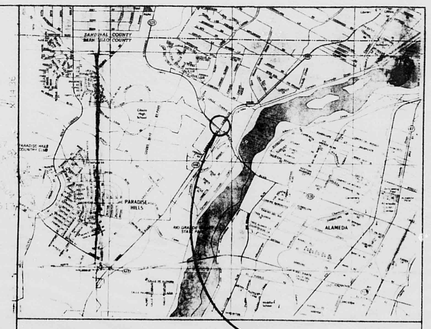
REVISED 12/24/97
1 ADD CONSTRUCTION NOTE #4
2 MODIFY GRADES AT SERVICE BAYS

LEGAL DESCRIPTION

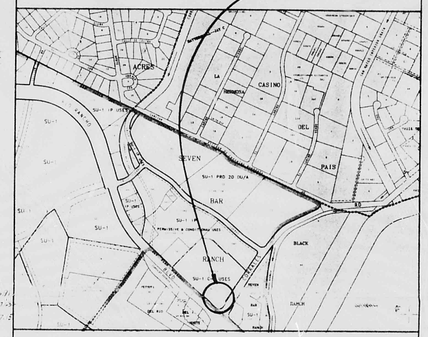
TRACT A1-1A BLACK RANCH CORRALES SHOPPING CENTER.

BENCH MARK

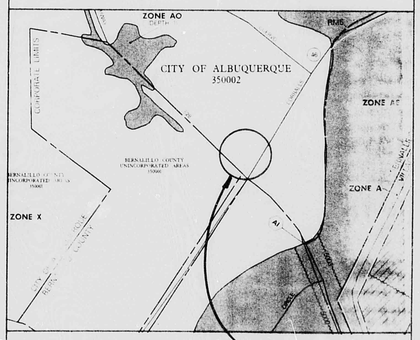
ALBUQUERQUE CONTROL STATION BENCH MARK MON. "6-B14", AN ALUMINUM DISK SET ON TOP OF BASE OF GALV. STEEL PWR. POLE AT THE S.E. QUAD. INTX. OF COORS & ALAMEDA BLVD. ELEVATION = 5019.57



LOCATION MAP — PROJECT LOCATION



ZONE MAP A-14



FLOOD BOUNDARY MAP — PROJECT LOCATION

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AUDIO EXPRESS
GRADING AND DRAINAGE PLAN

KEMPER–VAUGHAN
CONSULTING ENGINEERS
3700 COORS RD. N.W. • ALBUQUERQUE, NEW MEXICO 87120 • (505) 831-4520

Designed KRK	Drawn	Checked KRK	Sheet of
File BANK	Date NOVEMBER 1997		G-1

PLAN SHOT TWICE ONCE ON LIGHT ONCE ON DARK

CITY OF ALBUQUERQUE
THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT.

R# 23 DATE 3-13-02 OP ESP.

CITY OF ALBUQUERQUE

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DIRECTOR

NOTARY PUBLIC

OFFICIAL SEAL Roberta Duran NOTARY PUBLIC STATE OF NEW MEXICO MY COMMISSION EXPIRES 07/02/02

D 24 C 20 B 16 A 12 CITY OF ALBUQERQUE C D

GENERAL LEGEND

EXISTING CONTOUR	
PROPOSED CONTOUR	24
EXISTING SPOT ELEVATION	
PROPOSED SPOT ELEVATION	56.4
FLOWLINE	
FLOW DIRECTION ARROW	
PROPOSED CONCRETE	
TOP OF CURB ELEVATION	TC
TOP OF WALL ELEVATION	TW
FLOWLINE ELEVATION	FL
TOP OF ASPHALT	TA
POWER POLE	PP
ROOF DRAIN/DOWN SPOUT	D.S.
AS-BUILT MEASUREMENTS 4-2-98	TC 4.7 FL 4.4

CALCULATIONS

THE FOLLOWING CALCULATIONS WERE DEVELOPED USING THE CITY OF ALBUQUERQUE DPM SECTION 22.2

SITE CHARACTERISTICS:
SITE LOCATION: ZONE 1
PRECIPITATION: P = 2.20 inches

LAND TREATMENT:
UNCOMPACTED SOIL – TREATMENT A
LANDSCAPE – TREATMENT B
COMPACTED SOIL – TREATMENT C
BUILDINGS & PAVING – TREATMENT D

EXCESS PRECIPITATION:
TREATMENT A E = 0.44 inches
TREATMENT B E = 0.67 inches
TREATMENT C E = 0.99 inches
TREATMENT D E = 1.97 inches

PEAK DISCHARGE:
TREATMENT A = 1.29 cfs/acre
TREATMENT B = 2.03 cfs/acre
TREATMENT C = 2.87 cfs/acre
TREATMENT D = 4.37 cfs/acre

SCALE: 1" = 20'

		EXISTING		PROPOSED	
TOTAL AREA	=	1.355 AC.			
TREATMENT A	=	0.00 AC.	= 0.0%	0.00 AC.	= 0.0%
TREATMENT B	=	0.569 AC.	= 42.0%	0.692 AC.	= 51.1%
TREATMENT C	=	0.00 AC.	= 0.0%	0.00 AC.	= 0.0%
TREATMENT D	=	0.786 AC.	= 58.0%	0.663 AC.	= 48.9%

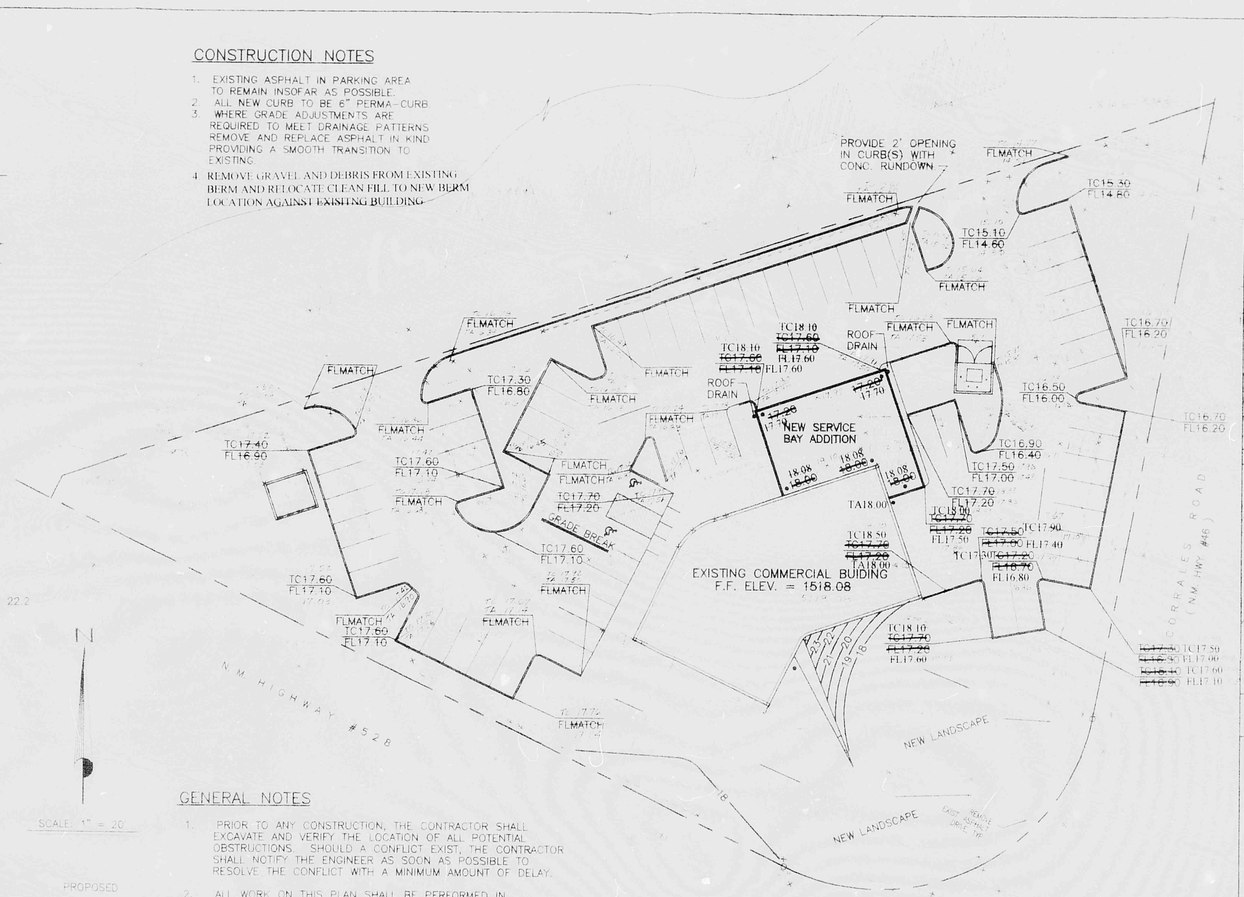
ONSITE – EXCESS PRECIPITATION & VOLUMETRIC RUNOFF:
EXISTING RUNOFF:
WEIGHTED E=[(0.44)(0.00)+(0.67)(0.569)+(0.99)(0.00)+(1.97)(0.786)]/1.355
= 1.42 inches
V100-6hr = (1.42)(1.355)/12 = 0.1608 acre ft = 7,000 cf
DEVELOPED RUNOFF:
WEIGHTED E=[(0.44)(0.00)+(0.67)(0.692)+(0.99)(0.00)+(1.97)(0.663)]/1.355
= 1.31 inches
V100-6hr = (1.31)(1.355)/12 = 0.1475acre ft = 6,425 cf

ONSITE – PEAK DISCHARGE:
EXISTING DISCHARGE:
Q100 = (1.29)(0.00)+(2.03)(0.569)+(2.87)(0.00)+(4.37)(0.786) = 4.59 cfs
DEVELOPED DISCHARGE:
Q100 = (1.29)(0.00)+(2.03)(0.692)+(2.87)(0.00)+(4.37)(0.663) = 4.30 cfs

RESULTS:
DEVELOPED VOLUMETRIC RUNOFF:
7,700 – 6,425 = 575 cf DECREASE IN RUNOFF VOLUME
DEVELOPED PEAK DISCHARGE:
4.59 – 4.30 = 0.29 cfs DECREASE IN PEAK DISCHARGE

CONSTRUCTION NOTES

1. EXISTING ASPHALT IN PARKING AREA TO REMAIN INSOFAR AS POSSIBLE.
2. ALL NEW CURB TO BE 6" PERMA-CURB.
3. WHERE GRADE ADJUSTMENTS ARE REQUIRED TO MEET DRAINAGE PATTERNS REMOVE AND REPLACE ASPHALT IN KIND PROVIDING A SMOOTH TRANSITION TO EXISTING.
4. REMOVE GRAVEL AND DEBRIS FROM EXISTING BERM AND RELOCATE CLEAN FILL TO NEW BERM LOCATION AGAINST EXISTING BUILDING.



GENERAL NOTES

1. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AS SOON AS POSSIBLE TO RESOLVE THE CONFLICT WITH A MINIMUM AMOUNT OF DELAY.
2. ALL WORK ON THIS PLAN SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
3. IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE LOCATION ONLY, AND LINES MAY EXIST WHERE NONE ARE SHOWN. THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE UTILITY OWNER OR FROM EXISTING PLANS, AND THIS INFORMATION MAY BE INCOMPLETE, OR OBSOLETE AT THE TIME OF CONSTRUCTION. THE ENGINEER HAS NOT UNDERTAKEN ANY FIELD VERIFICATION OF THESE LOCATIONS, LINE SIZES OR MATERIAL TYPE, MAKES NO REPRESENTATION THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE OR UNDERGROUND INSTALLATION IN OR NEAR THE AREA IN ADVANCE OF AND DURING ANY EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES AND UNDERGROUND FACILITIES. IN PLANNING AND CONDUCTING EXCAVATIONS, THE CONTRACTOR SHALL COMPLY WITH ALL STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
4. THE CONTRACTOR SHALL INSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHTS-OF-WAY OR ONTO PRIVATE PROPERTY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AND BY WETTING THE SOIL TO KEEP IT FROM BLOWING.
5. THE CONTRACTOR SHALL OBTAIN ANY AND ALL PERMITS REQUIRED BY THE CITY OF ALB. FOR THE COMPLETION OF THE WORK PRIOR TO BEGINNING CONSTRUCTION.

DRAINAGE PLAN

THIS SITE IS LOCATED ON THE SOUTHWEST CORNER OF THE CORRALES SHOPPING CENTER. THE EXISTING STRUCTURE OPERATED AS A BANK. THE PROPOSED PLAN IS TO CHANGE ITS USE TO A RETAIL ESTABLISHMENT WITH A 1,600 SF ADDITION. THE ENTIRE DRIVE-THRU LANE WILL BE REMOVED. ALL THE PARKING WILL BE RECONFIGURED.

AS SHOWN ON PANEL 109 OF THE FLOOD INSURANCE RATE MAP, THIS SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD AREA.

THE EXISTING SURVEY INFORMATION SHOWN HEREON WAS PREPARED FROM A FIELD SURVEY DONE BY RIO GRANDE SURVEYING CO., INC. IN NOVEMBER OF 1997. A SUBSEQUENT FIELD REVIEW BY THIS OFFICE REVEALED THAT THE INFORMATION SHOWN IS CONSISTENT WITH THE ACTUAL CONDITIONS THAT EXIST IN THE FIELD.

4/14/98

THE SITE IS IN SUBSTANCIAL COMPLIANCE WITH THE APPROVED GRADING AND DRAINAGE PLAN WITH ENGINEER'S SEAL DATED 11-3-97 WITH THE REVISIONS AS REFLECTED IN THE RECORD DRAWING ELEVATIONS SHOWN HEREON. THE SITE DRAINAGE WILL FUNCTION AS ORIGINALLY PROPOSED.

11/7/97

REVISED 12-24-97
1. ADD CONSTRUCTION NOTE #4
2. MODIFY GRADES AT SERVICE BAYS

LEGAL DESCRIPTION

TRACT A1-1A BLACK RANCH CORRALES SHOPPING CENTER.

BENCH MARK

ALBUQUERQUE CONTROL STATION BENCH MARK MON. "6-B14" AN ALUMINUM DISK SET ON TOP OF BASE OF GALV. STEEL PWR POLE AT THE S.E. QUAD. INTX. OF COORS & ALAMEDA BLVD. ELEVATION = 5019.57

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GRADING AND DRAINAGE PLAN

KEMPER-VAUGHAN
CONSULTING ENGINEERS

DRAWN	KRK	11-3-97	
CHECKED	KRK		
DATE	NOVEMBER 1997		G-1

PLAN SHOT TWICE
ONCE ON LIGHT
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NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires 07/03/02

D 24 C 20 B 16 A 12

CITY OF ALBUQUERQUE C D

HYDROLOGY

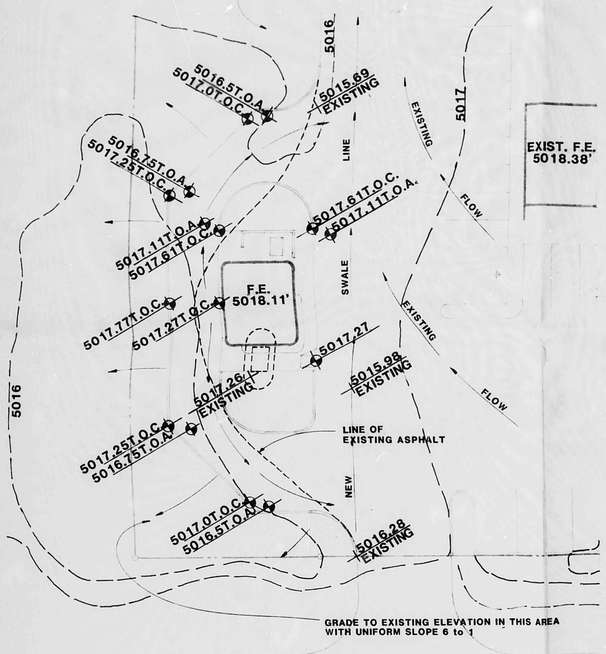
ONE PLAN NO DOCUMENTS

A14/D1A

DRB: N/A
EPC: N/A

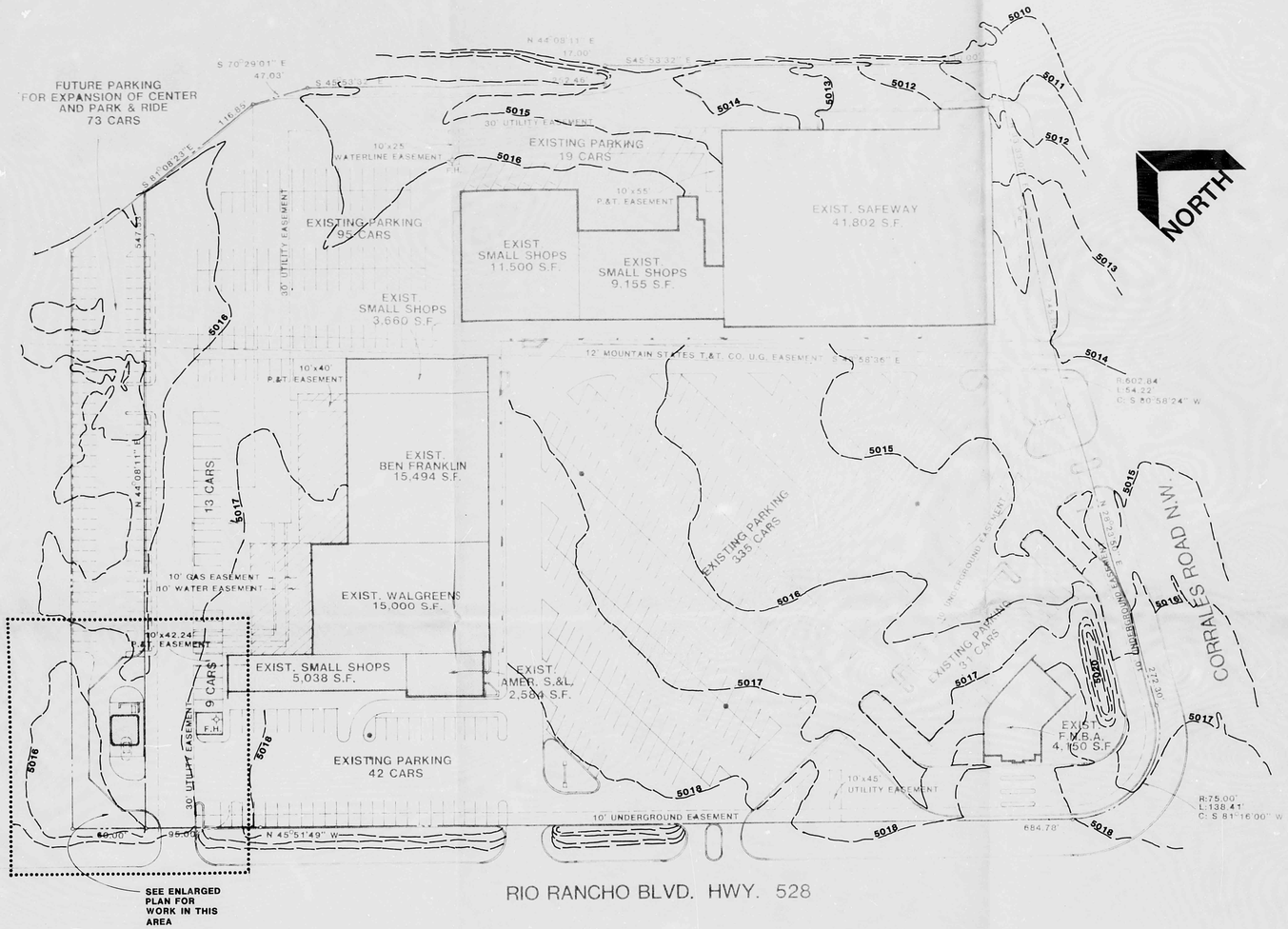
VICINITY MAP A-14-Z

GRADE TO EXISTING ELEVATION IN THIS AREA WITH UNIFORM SLOPE 6to1



GRADE TO EXISTING ELEVATION IN THIS AREA WITH UNIFORM SLOPE 6 to 1

ENLARGED GRADING & DRAINAGE PLAN 0 10 20 30 50
SCALE 1":20'-0"



EXISTING GRADING PLAN 0 25 50 100 150
SCALE 1":50'-0"

A14 DIA
Corrales Center

APPROVED FOR DRAINAGE
3/27/85
DATE
Billy J. Goolsby
SIGNATURE TITLE
ADVISE DRAINAGE INSPECTOR WHEN GRADING EXECUTED

ARCHITECT
ENGINEER

FOX PHOTO 1-HR. LAB AT CORRALES CENTER

Albuquerque, New Mexico

VOGT & BYRNES P.A.
Architects – Engineers
1617 University Blvd. N.E., Albuquerque, N.M. 87102 : (505) 242-1526

JOB NO: 8421
DRN BY: JPM
APP'D BY: GRB
DATE: MARCH 1,1985

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A14 /DIA (1)