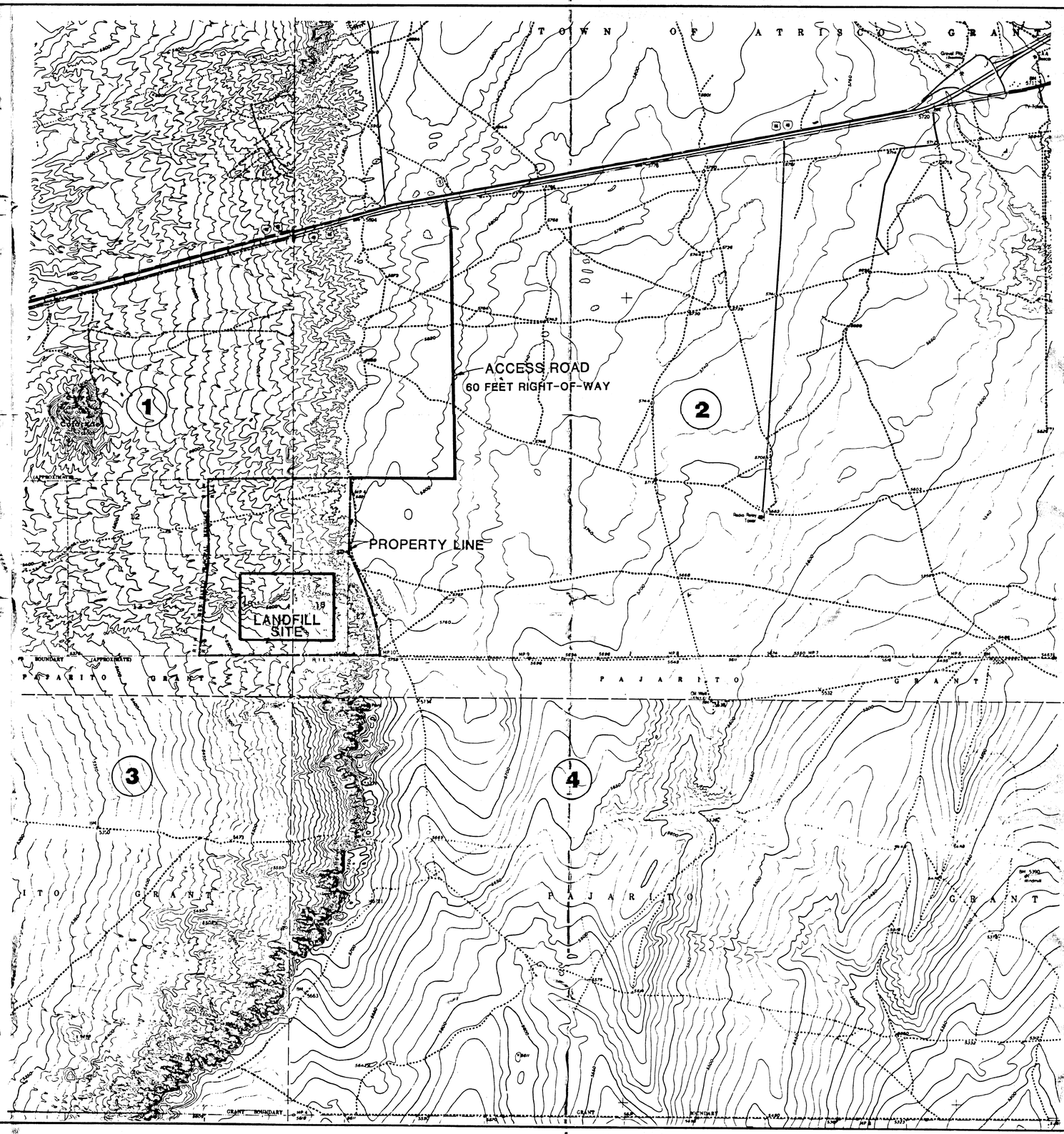


SCALE IN FEET

2000 0 2000 4000

LEGEND

PROPERTY LINE

LANDFILL SITE BOUNDARY

USGS MAPS

1 LA MESITA NEGRA, N.M.
1954 (PHOTO REVISED 1971)

2 LA MESITA NEGRA SE, N.M.
1954 (PHOTO REVISED 1967 & 1973)

3 DALIES NW, N.M.
1952

4 WIND MESA, N.M.
1952 (PHOTO REVISED 1967)

PROPOSED CERRO COLORADO LANDFILL
SITE DEVELOPMENT AND OPERATIONS PLAN
CITY OF ALBUQUERQUE

ATTACHMENT 1
TOPOGRAPHIC MAP

Date	Checked	Revision

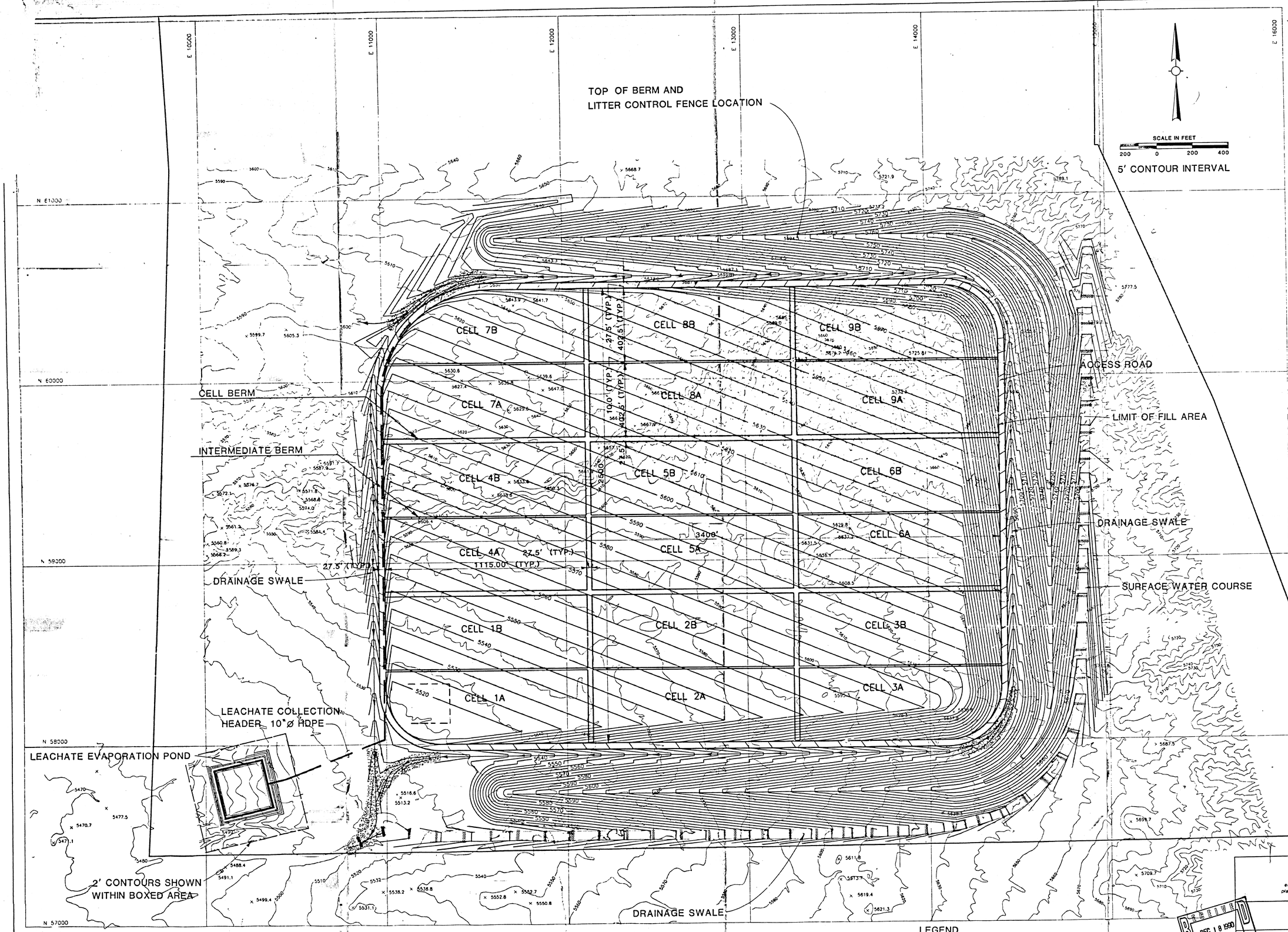
Designed by:
Drawn by:
Checked by:
Approved by:

Date: SEPT. 21, 1989
Scale: 1" = 2000'

CAMP DRESSER & McKEE INC.
2400 LOUISIANA BLVD. N.E.
AMERICAN FINANCIAL CENTER #5
SUITE 740
ALBUQUERQUE, NEW MEXICO

CDM
environmental engineers, scientists, planners, & management consultants

SHEET NO. 1



LEGEND

- RIP RAP
- 5' BASE GRADE CONTOUR
- 10' EXISTING CONTOUR
- SURFACE WATER FLOW

GRADING SHALL PROCEED PROGRESSIVELY WITH EACH CELL CONSTRUCTED AND DEVELOPED BEGINNING WITH CELL NO. 1.

ATTACHMENT 2

RECEIVED DEC 18 1990 HYDROLOGY DIVISION

AS BUILT INFORMATION
CONTRACTOR
PLOTTED BY DATE
CHECKED BY DATE
ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
CERTIFICATE OF COMPLETION BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL

REVISIONS
NO. DATE REMARKS BY

DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY DATE

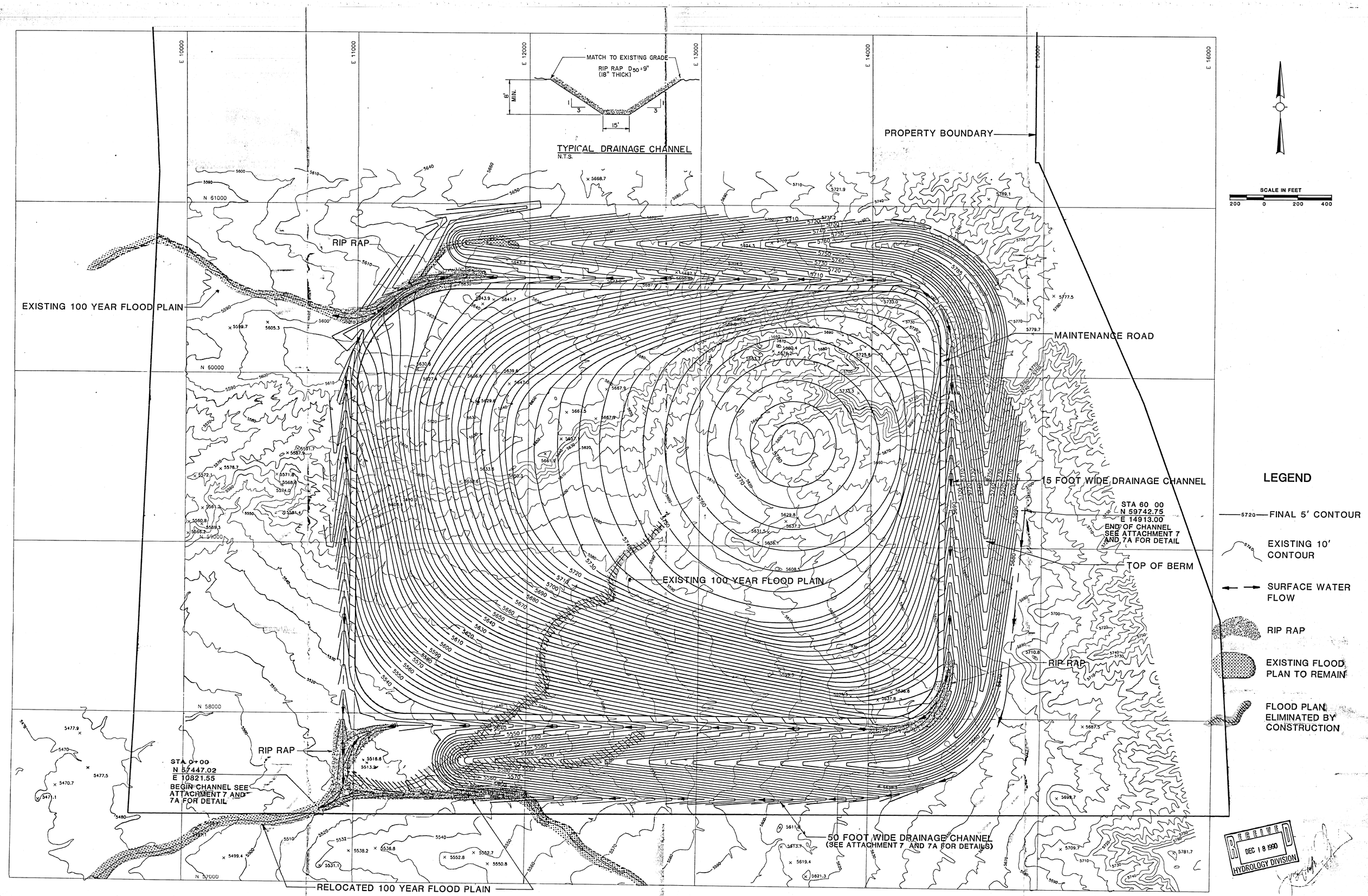
CDM
environmental engineers, scientists, planners, & management consultants

CITY OF ALBUQUERQUE
SOLID WASTE
MANAGEMENT DEPARTMENT

CERRO COLORADO
MUNICIPAL SANITARY LANDFILL MASTERPLAN FACILITIES
INITIAL SITE GRADING PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D R C Chair					
Trans Dev					
Utility Dev					

DRAWING NO. | MAP NO. | SHEET OF



RECEIVED
DEC 18 1990
HYDROLOGY DIVISION

ATTACHMENT 3

PROPOSED CERRO COLORADO LANDFILL
SITE DEVELOPMENT AND OPERATIONS PLAN
CITY OF ALBUQUERQUE

FINAL GRADING PLAN

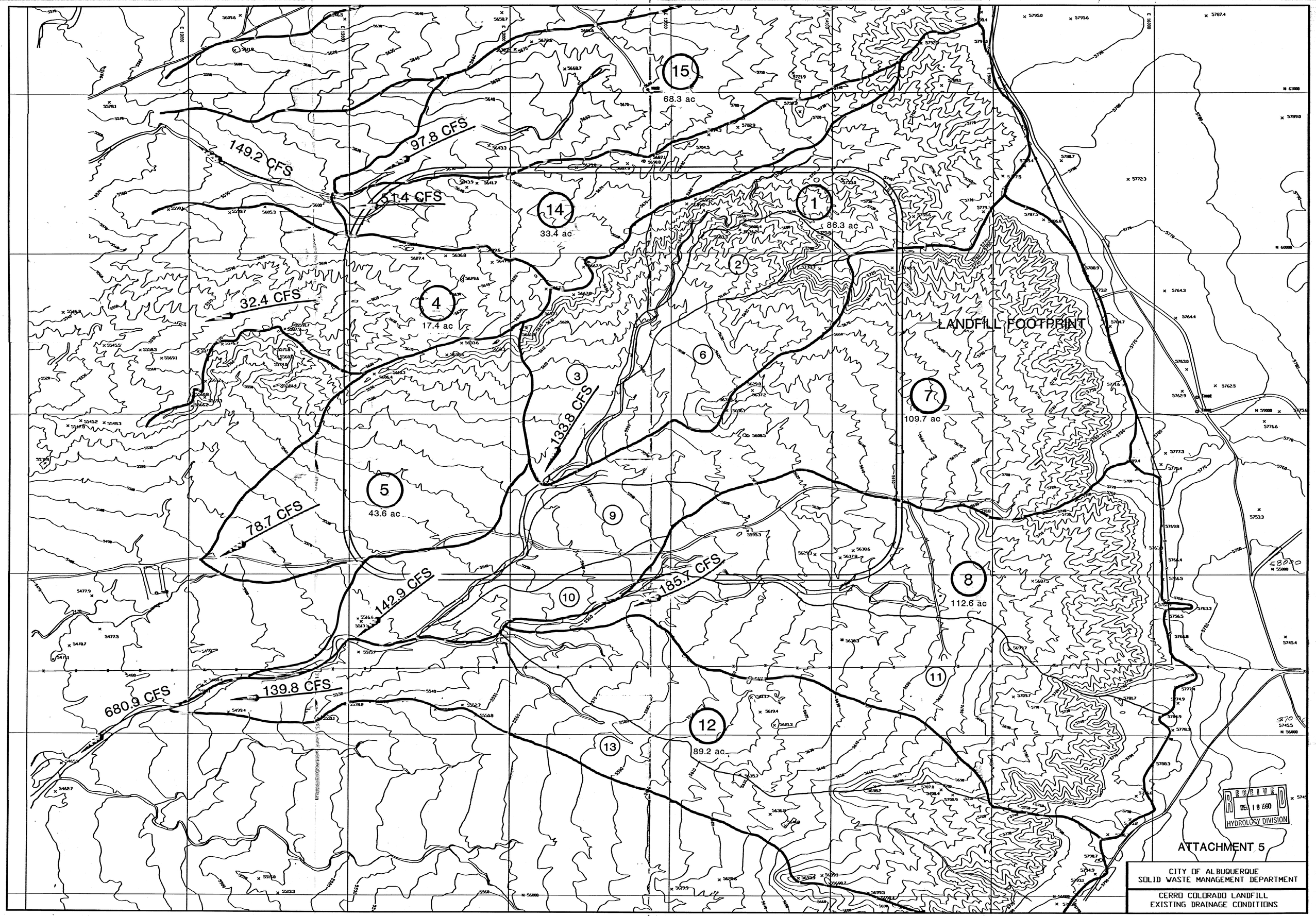
Date	Checked	Revision

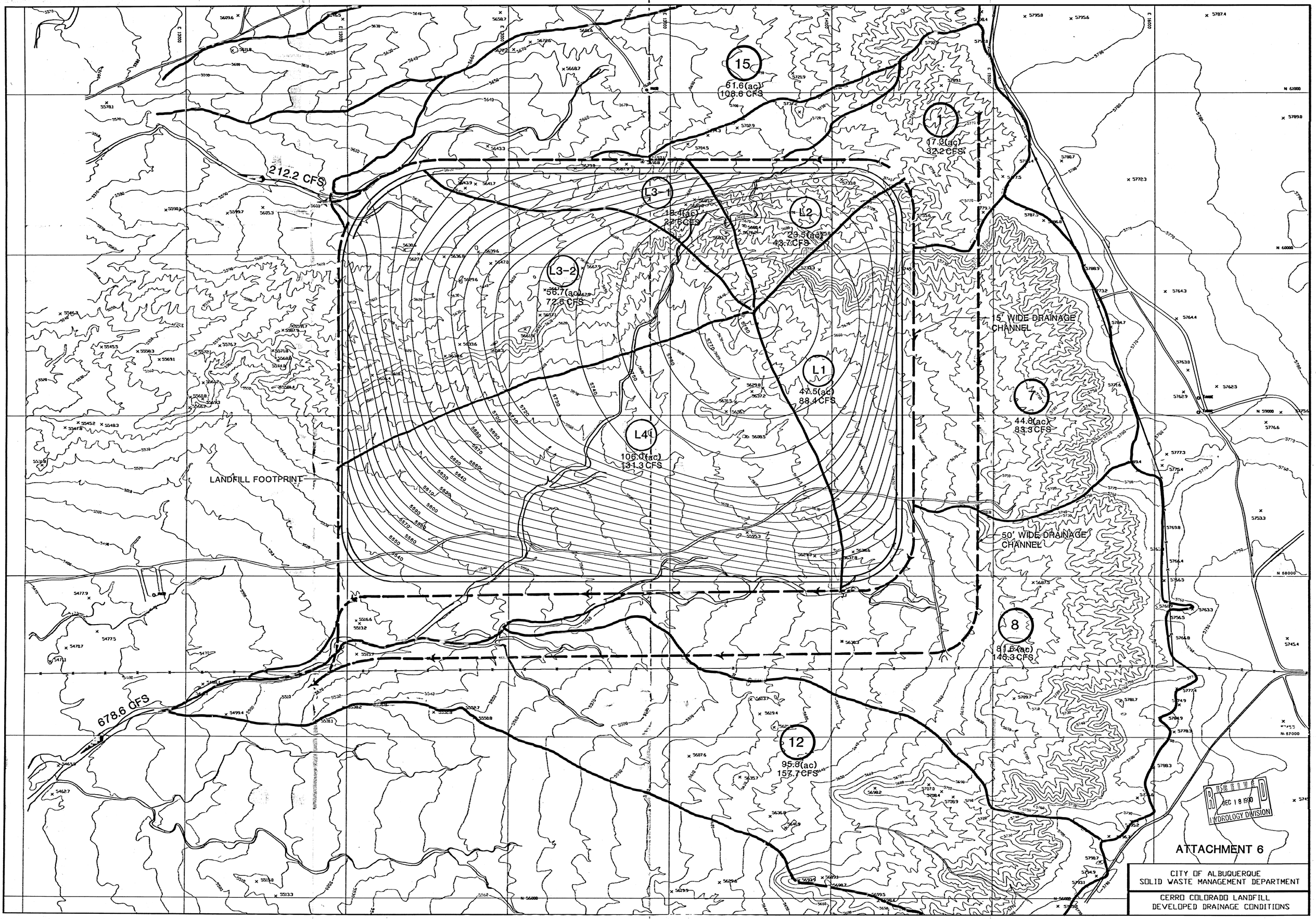
Designed by: _____
Drawn by: _____
Checked by: _____
Approved by: _____
Date: _____
Scale: 1"=200'

CAMP DRESSER & McKEE INC.
2400 LOUISIANA BLVD. N.E.
AMERICAN FINANCIAL CENTER #5
SUITE 740
ALBUQUERQUE, NEW MEXICO

CDM
environmental engineers, scientists, planners, & management consultants

SHEET NO.

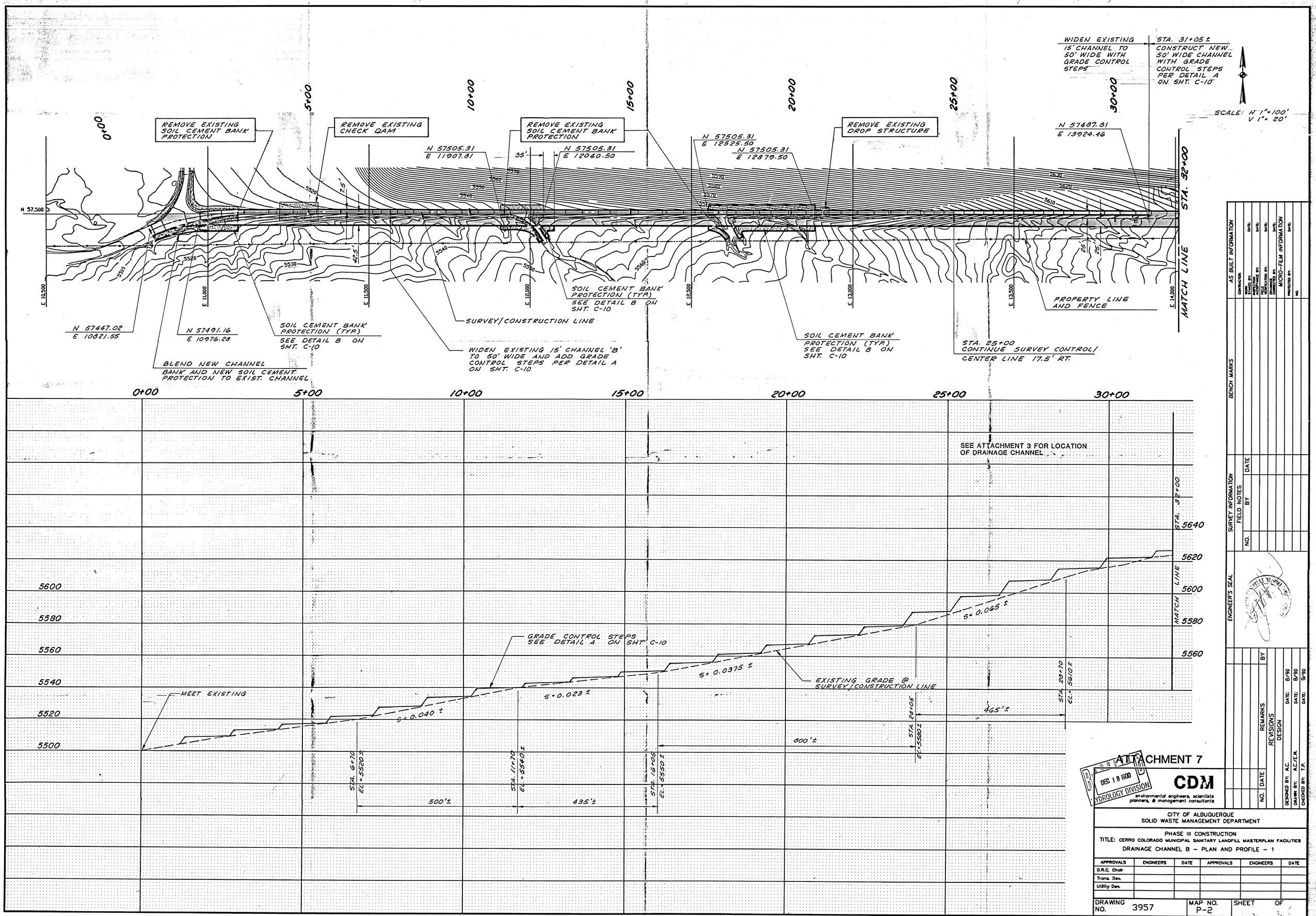

15
68.3 ac
97.8 CFS
149.2 CFS
51.4 CFS
14
33.4 ac
1
86.3 ac
2
32.4 CFS
4
17.4 ac
LANDFILL FOOTPRINT
6
3
133.8 CFS
7
109.7 ac
5
43.6 ac
78.7 CFS
9
185.7 CFS
8
112.6 ac
142.9 CFS
10
11
139.8 CFS
680.9 CFS
12
89.2 ac
13
RECEIVED
DEC 18 1990
HYDROLOGY DIVISION
ATTACHMENT 5
CITY OF ALBUQUERQUE
SOLID WASTE MANAGEMENT DEPARTMENT
CERRO COLORADO LANDFILL
EXISTING DRAINAGE CONDITIONS



ATTACHMENT 6

CITY OF ALBUQUERQUE
SOLID WASTE MANAGEMENT DEPARTMENT

CERRO COLORADO LANDFILL
DEVELOPED DRAINAGE CONDITIONS



ATTACHMENT 7

DEC 18 1990
HYDROLOGY DIVISION

CDM
environmental engineers, scientists planners, & management consultants

CITY OF ALBUQUERQUE
SOLID WASTE MANAGEMENT DEPARTMENT

PHASE III CONSTRUCTION

TITLE: CERRO COLORADO MUNICIPAL SANITARY LANDFILL MASTERPLAN FACILITIES

DRAINAGE CHANNEL B – PLAN AND PROFILE – 1

APPROVALS	ENGINEERS	DATE	APPROVALS	ENGINEERS	DATE
D.R.C. Chair					
Trans. Dev.					
Utility Dev.					

DRAWING NO.	MAP NO.	SHEET	OF
3957	P-2		

AS BUILT INFORMATION
CONTRACTOR: DATE:
STAKED BY: DATE:
INSPECTOR: DATE:
REPRESENTATIVE
FIELD VERIFICATION BY: DATE:
DRAWINGS CORRECTED BY: DATE:
MICRO-FILM INFORMATION
PROTECTED BY: DATE:
REL.

BENCH MARKS

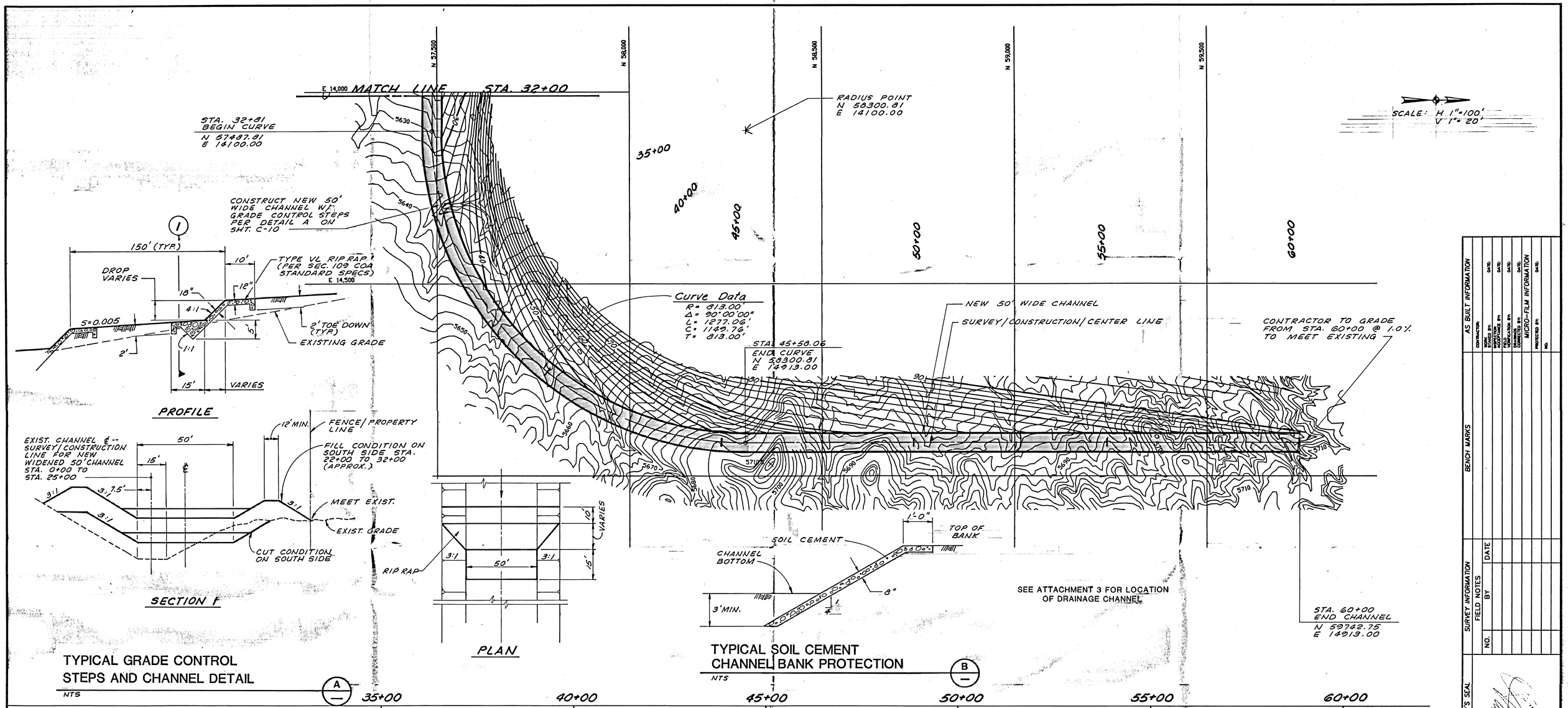
SURVEY INFORMATION
FIELD NOTES

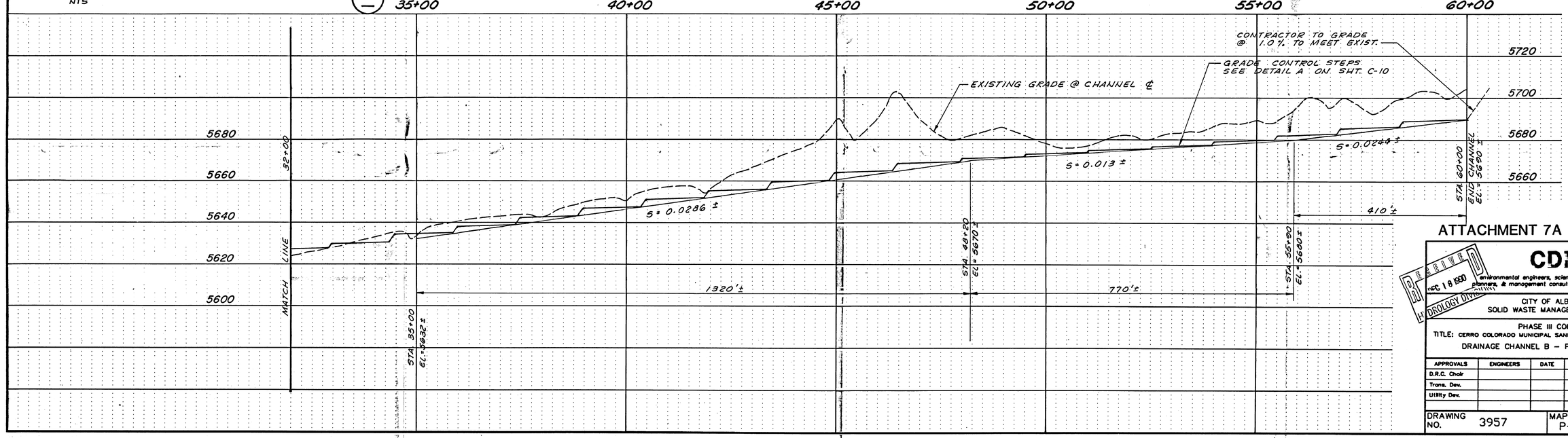
NO.	BY	DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN
DESIGNED BY: A.C. DATE: 8/90
DRAWN BY: A.C./E.M. DATE: 8/90
CHECKED BY: T.P. DATE: 9/90





ATTACHMENT 7A

RECEIVED DEC 18 1990 HYDROLOGY DIV.

CDM
environmental engineers, scientists planners, & management consultants

CITY OF ALBUQUERQUE
SOLID WASTE MANAGEMENT DEPARTMENT

PHASE III CONSTRUCTION

TITLE: CERRO COLORADO MUNICIPAL SANITARY LANDFILL MASTERPLAN FACILITIES

DRAINAGE CHANNEL B – PLAN AND PROFILE – 2

APPROVALS	ENGINEERS	DATE	APPROVALS	ENGINEERS	DATE
D.R.C. Chair					
Trans. Dev.					
Utility Dev.					

DRAWING NO.	MAP NO.	SHEET	OF
3957	P-2		

AS BUILT INFORMATION
CONTRACTOR: STAKED BY: DATE: INSPECTOR'S ACCEPTANCE BY: DATE: FIELD CLOSURE BY: DATE: COMPUTED BY: DATE: MICRO-FILM INFORMATION PROTECTED BY: DATE: VOL.

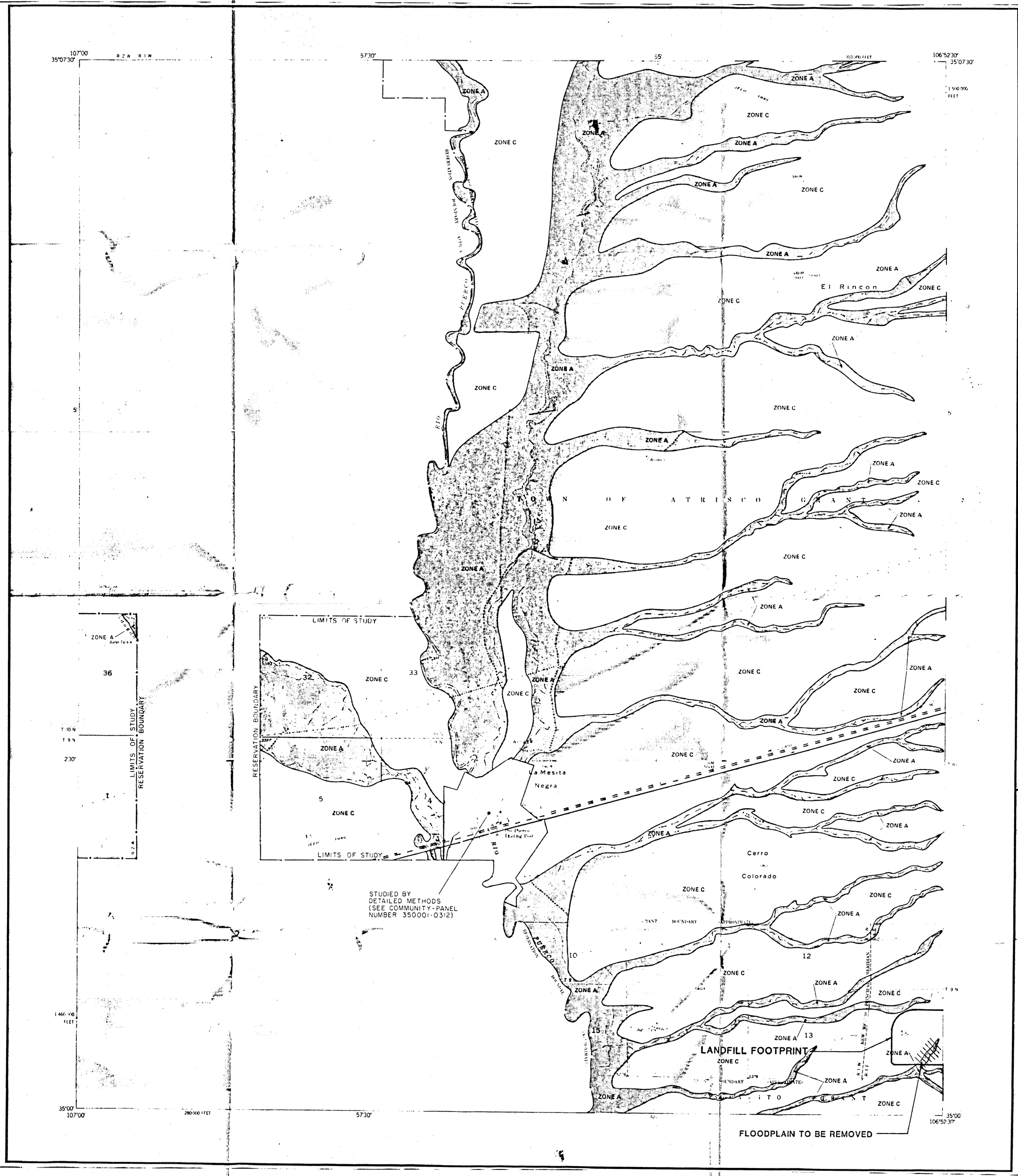
BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY: A.C. DATE: 8/90
DRAWN BY: A.C./E.M. DATE: 8/90
CHECKED BY: T.P. DATE: 9/90



KEY TO MAP

500-Year Flood Boundary	
100-Year Flood Boundary	ZONE B
Zone Designations*	
100-Year Flood Boundary	ZONE B
500-Year Flood Boundary	
Base Flood Elevation Line With Elevation In Feet**	513
Base Flood Elevation In Feet Where Uniform Within Zone**	(EL 987)
Elevation Reference Mark	RM7 ×
River Mile	• M1.5

**Referenced to the National Geodetic Vertical Datum of 1929

*EXPLANATION OF ZONE DESIGNATIONS

ZONE	EXPLANATION
A	Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
AO	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
AH	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1-A30	Areas of 100-year flood; base flood elevations and flood hazard factors determined.
A99	Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
B	Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading)
C	Areas of minimal flooding. (No shading)
D	Areas of undetermined, but possible, flood hazards.
V	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
V1-V30	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.

NOTES TO USER

Certain areas not in the special flood hazard areas (zones A and V) may be protected by flood control structures.

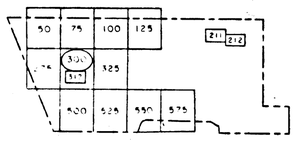
This map is for flood insurance purposes only; it does not necessarily show all areas subject to flooding in the community or all planimetric features outside special flood hazard areas.

For adjoining map panels, see separately printed Index To Map Panels.

INITIAL IDENTIFICATION:
DECEMBER 20, 1974
FLOOD HAZARD BOUNDARY MAP REVISIONS:
SEPTEMBER 6, 1977

FLOOD INSURANCE RATE MAP EFFECTIVE:

SHEET INDEX



MATCH LINE TO ADJOINING MAPS

Refer to the FLOOD INSURANCE RATE MAP EFFECTIVE date shown on this map to determine when actuarial rates apply to structures in the zones where elevations or depths have been established.

To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program at (800) 638-6620.

SCALE 1" = 2000'
2000 0 2000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

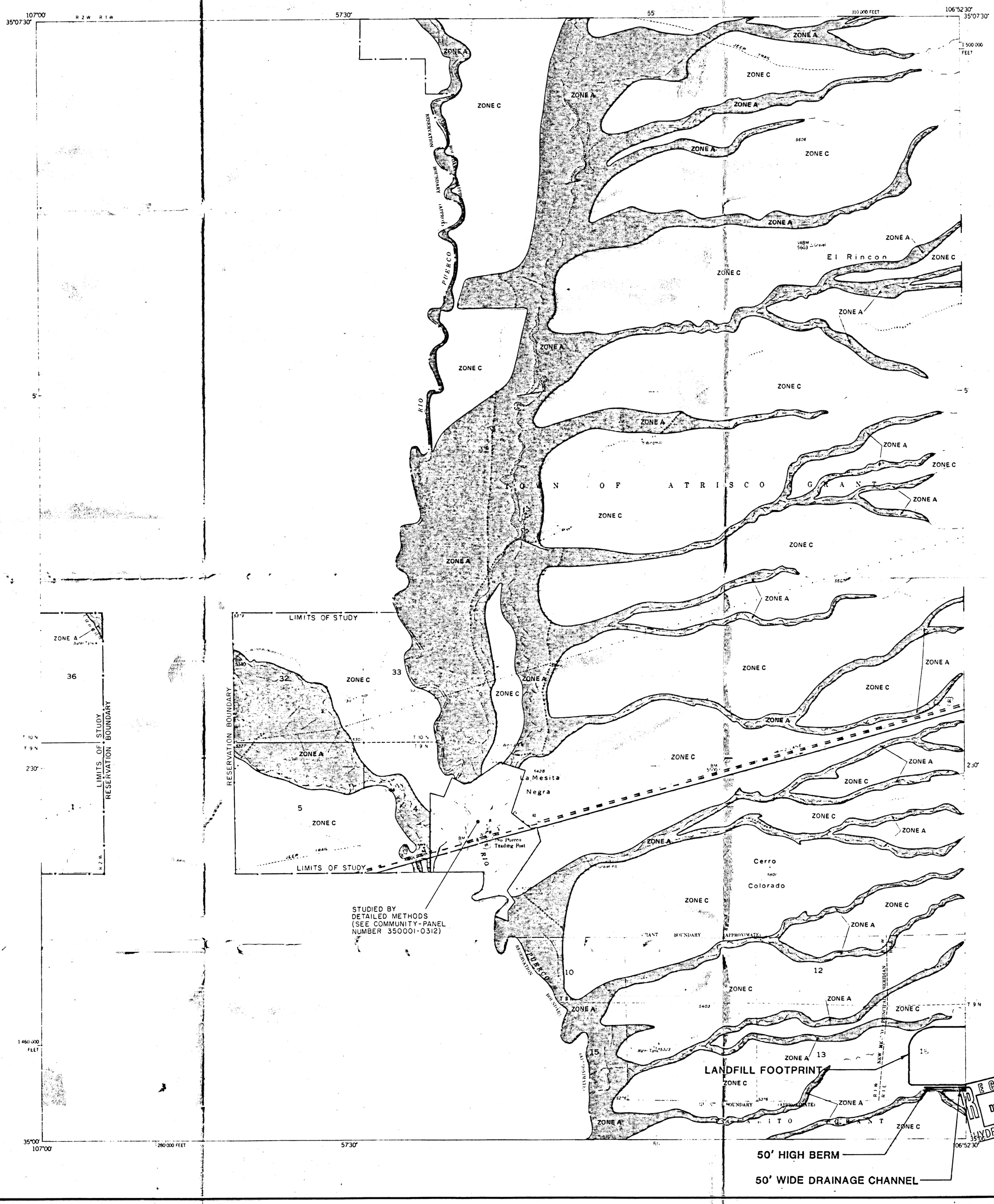
BERNALILLO COUNTY, NEW MEXICO
(UNINCORPORATED AREAS)

PANEL 300 OF 825
(SEE MAP INDEX FOR PANELS NOT PRINTED)

ATTACHMENT 8
EXISTING FIRM

COMMUNITY-PANEL NUMBER
350001 0300
EFFECTIVE DATE:

Federal Emergency Management Agency



KEY TO MAP

500-Year Flood Boundary	
100-Year Flood Boundary	ZONE B
Zone Designations*	
100-Year Flood Boundary	
500-Year Flood Boundary	ZONE B
Base Flood Elevation Line With Elevation In Feet**	513
Base Flood Elevation in Feet Where Uniform Within Zone**	(EL 987)
Elevation Reference Mark	RM7 ×
River Mile	• M1.5

**Referenced to the National Geodetic Vertical Datum of 1929

*EXPLANATION OF ZONE DESIGNATIONS

ZONE	EXPLANATION
A	Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
A0	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
AH	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1-A30	Areas of 100-year flood; base flood elevations and flood hazard factors determined.
A99	Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
B	Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading)
C	Areas of minimal flooding. (No shading)
D	Areas of undetermined, but possible, flood hazards.
V	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
V1-V30	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.

NOTES TO USER

Certain areas not in the special flood hazard areas (zones A and V) may be protected by flood control structures.

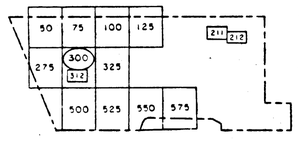
This map is for flood insurance purposes only; it does not necessarily show all areas subject to flooding in the community or all planimetric features outside special flood hazard areas.

For adjoining map panels, see separately printed Index To Map Panels.

INITIAL IDENTIFICATION:
DECEMBER 20, 1974
FLOOD HAZARD BOUNDARY MAP REVISIONS:
SEPTEMBER 6, 1977

FLOOD INSURANCE RATE MAP EFFECTIVE:

SHEET INDEX



MATCH LINE TO ADJOINING MAPS

Refer to the FLOOD INSURANCE RATE MAP EFFECTIVE date shown on this map to determine when actuarial rates apply to structures in the zones where elevations or depths have been established.

To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program at (800) 638-6620.

SCALE 1" = 2000'
2000 0 2000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

BERNALILLO COUNTY, NEW MEXICO
(UNINCORPORATED AREAS)

PANEL 300 OF 825
(SEE MAP INDEX FOR PANELS NOT PRINTED)

ATTACHMENT 9
NEW FIRM

COMMUNITY-PANEL NUMBER
350001 0300
EFFECTIVE DATE:

Federal Emergency Management Agency

GENERAL NOTES

1. ALL SUBGRADE, BACKFILL AND EMBANKMENT SHALL BE COMPACTED TO 90% (MODIFIED PROCTOR) IN NON-STRUCTURAL AREAS, AND 95% (MODIFIED PROCTOR) IN STRUCTURAL AREAS.
2. CONTRACTOR TO REFERENCE FOUNDATION PLAN AND SOILS REPORT FOR RECOMMENDATIONS ON FOUNDATION EARTHWORK AND CONCRETE SECTIONS.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA.

KEYED NOTES

1. LOCATION OF BURIED ELECTRIC LINE IS APPROXIMATE. DEPTH OF BURY IS UNKNOWN.
2. PROPOSED BUILDING FOUNDATION BOUNDARY, FF=5619, SEE SHEET S1 FOR DETAILS.
3. EXISTING CONCRETE FOUNDATION TO REMAIN.
4. PROPOSED DRAINAGE PATH, CONTRACTOR SHALL GRADE TO DRAIN RUNOFF AWAY FROM FOUNDATION, SEE SECTION #1 THIS SHEET FOR DETAILS.

DRAINAGE PLAN

EXECUTIVE SUMMARY

THIS PROJECT, LOCATED AT THE INTERMEDIATE PROCESSING FACILITY (CERRO COLORADO LANDFILL), CONSISTS OF NEW CONSTRUCTION OF A 7370 SF, SINGLE STORY, METAL BUILDING TO HOUSE GLASS RECYCLING EQUIPMENT. THE SITE IS DEVELOPED AND THE NEW BUILDING IS AN ADDITION TO THE EXISTING FACILITY WHICH WILL ENCLOSE AN EXISTING CONCRETE PAD. THE PURPOSE OF THIS DRAINAGE PLAN IS TO OBTAIN BUILDING PERMIT APPROVAL.

PROJECT DESCRIPTION

AS SHOWN ON THE VICINITY MAP, THE SITE IS LOCATED 4 MILES WEST OF PASEO DEL VOLCAN ALONG I-40, AND 2 MILES SOUTH ON SHELLY ROAD. THE SITE IS CURRENTLY ZONED A-1, SU-PERMIT. AS SHOWN BY PANEL 300 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS, BERNALILLO COUNTY, NEW MEXICO, AND INCORPORATED AREAS, DATED NOVEMBER 19, 2003, THIS SITE LIES WITHIN DESIGNATED FLOOD HAZARD ZONE X. ZONE X IS CHARACTERIZED BY AREAS WITHIN THE 500-YR FLOOD, AREAS OF 100-YR FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE AND AREAS PROTECTED BY LEVEES FROM 100-YR FLOOD.

EXISTING CONDITIONS AND DRAINAGE PATTERNS

THE SITE IS RELATIVELY FLAT WITH SLOPES LESS THAN 4%. THE SITE DRAINS FROM THE EAST TO WEST. LAND TREATMENT IS PREDOMINATELY 'C', SOIL COMPACTED BY HUMAN ACTIVITY, WITH IMPERVIOUS AREAS 'D' OCCURING AT THE EXISTING IPF CONCRETE PAD AND AT AN EXISTING SMALL OFFICE BUILDING.

DEVELOPED CONDITIONS AND DRAINAGE PATTERNS

THE PROPOSED BUILDING WILL ENCLOSE THE EXISTING IPF CONCRETE PAD. THEREFORE, THE IMPERVIOUS AREA FOR THE DRAINAGE BASIN AS A WHOLE INCREASES BY 14%. THE AREA AROUND THE PERIMETER OF THE BUILDING WILL BE GRADED TO SLOPE AWAY FROM THE FOUNDATION AND TIEING TO EXISTING GROUND. GRADING AT THE NORTHEAST CORNER OF THE BUILDING WILL INCLUDE A CUT INTO THE EXISTING EMBANKMENT AT A 3:1 SLOPE. ROOF DRAINS ON THE NEW BUILDING WILL DISCHARGE ON THE WEST SIDE OF THE BUILDING. SITE GRADING WILL BE LIMITED TO THE AREA IN THE VICINITY OF THE NEW BUILDING. THE OVERALL DRAINAGE PATTERN FOR THE SITE WILL REMAIN UNCHANGED.

CALCULATIONS

REFERENCE: THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, SECTION 22.2, HYDROLOGY, 1997 REVISION

BERNALILLO COUNTY PRECIPITATION ZONE: 1

DRAINAGE BASIN AREA = 1.24 ACRES

EXISTING CONDITIONS

LAND TREATMENT AREAS: 'C' (1.06 ACRES), 'D' (0.18 ACRES)

PEAK DISCHARGE (TABLE A-9):

$Q_{P\,(2\text{-}YR)}$ = (1.06 ACRE)*(0.47 CFS/ACRE)+(0.18 ACRE)*(1.69 CFS/ACRE) = 0.80 CFS

$Q_{P\,(10\text{-}YR)}$ = (1.06 ACRE)*(1.49 CFS/ACRE)+(0.18 ACRE)*(2.89 CFS/ACRE) = 2.10 CFS

$Q_{P\,(100\text{-}YR)}$ = (1.06 ACRE)*(2.87 CFS/ACRE)+(0.18 ACRE)*(4.37 CFS/ACRE) = 3.83 CFS

DEVELOPED CONDITIONS

LAND TREATMENT AREAS: 'C' (1.05 ACRES), 'D' (0.21 ACRES)

PEAK DISCHARGE (TABLE A-9):

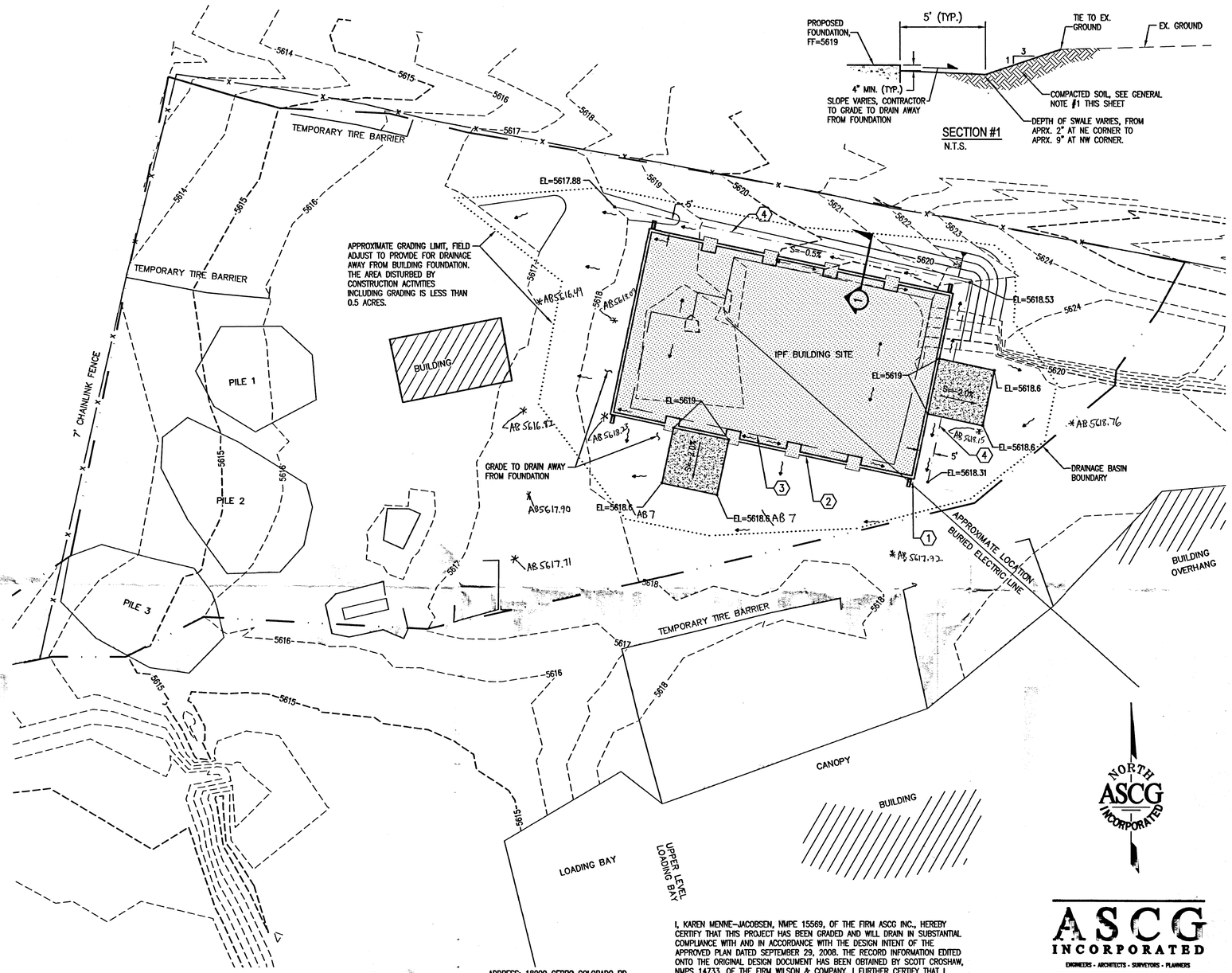
$Q_{P\,(2\text{-}YR)}$ = (1.05 ACRE)*(0.47 CFS/ACRE)+(0.21 ACRE)*(1.69 CFS/ACRE) = 0.85 CFS

$Q_{P\,(10\text{-}YR)}$ = (1.05 ACRE)*(1.49 CFS/ACRE)+(0.21 ACRE)*(2.89 CFS/ACRE) = 2.17 CFS

$Q_{P\,(100\text{-}YR)}$ = (1.05 ACRE)*(2.87 CFS/ACRE)+(0.21 ACRE)*(4.37 CFS/ACRE) = 3.93 CFS

CONCLUSION

THE NEW BUILDING PROPOSED FOR THE IPF SITE WILL NOT SIGNIFICANTLY CHANGE THE HYDROLOGIC CONDITION FOR THE SITE. THE SMALL INCREASE IN IMPERVIOUS AREA WILL INCREASE RUNOFF FROM HISTORIC RATES BY APPROXIMATLY 6% FOR THE 2-YR STORM EVENT, 3% FOR THE 10-YR STORM EVENT, AND 2.5% FOR THE 100-YR STORM EVENT.



SECTION #1
N.T.S.

LEGEND

PROPOSED	EXISTING	DESCRIPTION
5620	5620	CONTOUR
		BUILDING
		CONCRETE
		FLOW ARROW
		DRAINAGE BASIN BOUNDRY

ADDRESS: 18000 CERRO COLORADO RD., ALBUQUERQUE, NM 87121

RECORD DRAWING
Date 4/20/2009
These drawings have been revised based on field data and every reasonable attempt has been made to depict construction as actually performed.

DRAINAGE PLAN
SCALE: 1" =20'

I, KAREN MENNE-JACOBSEN, NMPE 15569, OF THE FIRM ASCG INC., HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED SEPTEMBER 29, 2008. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY SCOTT CROSHAW, NMPS 14733, OF THE FIRM WILSON & COMPANY. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON FEBRUARY 6, 2009, AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR A CERTIFICATION OF OCCUPANCY.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

Karen Menne-Jacobsen
KAREN MENNE-JACOBSEN, NMPE 15569
4-20-09
DATE

Rec 4-20-9 - Address!

NORTH
ASCG INCORPORATED

ASCG INCORPORATED
ENGINEERS · ARCHITECTS · SURVEYORS · PLANNERS
8501 AMERICAS PARKWAY NE, SUITE 400
ALBUQUERQUE, NEW MEXICO 87110-5372
PHONE 505.247.0294 · FAX 505.242.4845

AS BUILT INFORMATION

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

MICRO-FILM INFORMATION

	DATE
RECORDED BY	
NO.	

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	DATE

ENGINEERS SEAL

K. MENNE-JACOBSEN · NEW MEXICO · 15569 · LICENSED PROFESSIONAL ENGINEER · 4-20-09

NO.	REMARKS	DATE

DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
CAPITAL IMPLEMENTATION PROGRAM

TITLE: DRAINAGE PLAN

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

City Project No.	Zone Map No.	Sheet	Of
7396.01	P-1	4	4

GENERAL NOTES

1. ALL SUBGRADE, BACKFILL AND EMBANKMENT SHALL BE COMPACTED TO 90% (MODIFIED PROCTOR) IN NON-STRUCTURAL AREAS, AND 95% (MODIFIED PROCTOR) IN STRUCTURAL AREAS.
2. CONTRACTOR TO REFERENCE FOUNDATION PLAN AND SOILS REPORT FOR RECOMMENDATIONS ON FOUNDATION EARTHWORK AND CONCRETE SECTIONS.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA.

KEYED NOTES

1. LOCATION OF BURIED ELECTRIC LINE IS APPROXIMATE. DEPTH OF BURY IS UNKNOWN.
2. PROPOSED BUILDING FOUNDATION BOUNDARY, FF=5619, SEE SHEET S1 FOR DETAILS.
3. EXISTING CONCRETE FOUNDATION TO REMAIN.
4. PROPOSED DRAINAGE PATH, CONTRACTOR SHALL GRADE TO DRAIN RUNOFF AWAY FROM FOUNDATION, SEE SECTION #1 THIS SHEET FOR DETAILS.

DRAINAGE PLAN

EXECUTIVE SUMMARY

THIS PROJECT, LOCATED AT THE INTERMEDIATE PROCESSING FACILITY (CERRO COLORADO LANDFILL), CONSISTS OF NEW CONSTRUCTION OF A 7370 SF, SINGLE STORY, METAL BUILDING TO HOUSE GLASS RECYCLING EQUIPMENT. THE SITE IS DEVELOPED AND THE NEW BUILDING IS AN ADDITION TO THE EXISTING FACILITY WHICH WILL ENCLOSE AN EXISTING CONCRETE PAD. THE PURPOSE OF THIS DRAINAGE PLAN IS TO OBTAIN BUILDING PERMIT APPROVAL.

PROJECT DESCRIPTION

AS SHOWN ON THE VICINITY MAP, THE SITE IS LOCATED 4 MILES WEST OF PASEO DEL VOLCAN ALONG I-40, AND 2 MILES SOUTH ON SHELLY ROAD. THE SITE IS CURRENTLY ZONED A-1, SU-PERMIT. AS SHOWN BY PANEL 300 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS, BERNALILLO COUNTY, NEW MEXICO, AND INCORPORATED AREAS, DATED NOVEMBER 19, 2003, THIS SITE LIES WITHIN DESIGNATED FLOOD HAZARD ZONE X. ZONE X IS CHARACTERIZED BY AREAS WITHIN THE 500-YR FLOOD, AREAS OF 100-YR FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE AND AREAS PROTECTED BY LEVEES FROM 100-YR FLOOD.

EXISTING CONDITIONS AND DRAINAGE PATTERNS

THE SITE IS RELATIVELY FLAT WITH SLOPES LESS THAN 4%. THE SITE DRAINS FROM THE EAST TO WEST. LAND TREATMENT IS PREDOMINATELY 'C', SOIL COMPACTED BY HUMAN ACTIVITY, WITH IMPERVIOUS AREAS 'D' OCCURING AT THE EXISTING IPF CONCRETE PAD AND AT AN EXISTING SMALL OFFICE BUILDING.

DEVELOPED CONDITIONS AND DRAINAGE PATTERNS

THE PROPOSED BUILDING WILL ENCLOSE THE EXISTING IPF CONCRETE PAD. THEREFORE, THE IMPERVIOUS AREA FOR THE DRAINAGE BASIN AS A WHOLE INCREASES BY 14%. THE AREA AROUND THE PERIMETER OF THE BUILDING WILL BE GRADED TO SLOPE AWAY FROM THE FOUNDATION AND TIEING TO EXISTING GROUND. GRADING AT THE NORTHEAST CORNER OF THE BUILDING WILL INCLUDE A CUT INTO THE EXISTING EMBANKMENT AT A 3:1 SLOPE. ROOF DRAINS ON THE NEW BUILDING WILL DISCHARGE ON THE WEST SIDE OF THE BUILDING. SITE GRADING WILL BE LIMITED TO THE AREA IN THE VICINITY OF THE NEW BUILDING. THE OVERALL DRAINAGE PATTERN FOR THE SITE WILL REMAIN UNCHANGED.

CALCULATIONS

REFERENCE: THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, SECTION 22.2, HYDROLOGY, 1997 REVISION

BERNALILLO COUNTY PRECIPITATION ZONE: 1

DRAINAGE BASIN AREA = 1.24 ACRES

EXISTING CONDITIONS

LAND TREATMENT AREAS: 'C' (1.06 ACRES), 'D' (0.18 ACRES)

PEAK DISCHARGE (TABLE A-9):

$Q_{P\,(2\text{-}YR)}$ = (1.06 ACRE)*(0.47 CFS/ACRE)+(0.18 ACRE)*(1.69 CFS/ACRE) = 0.80 CFS

$Q_{P\,(10\text{-}YR)}$ = (1.06 ACRE)*(1.49 CFS/ACRE)+(0.18 ACRE)*(2.89 CFS/ACRE) = 2.10 CFS

$Q_{P\,(100\text{-}YR)}$ = (1.06 ACRE)*(2.87 CFS/ACRE)+(0.18 ACRE)*(4.37 CFS/ACRE) = 3.83 CFS

DEVELOPED CONDITIONS

LAND TREATMENT AREAS: 'C' (1.05 ACRES), 'D' (0.21 ACRES)

PEAK DISCHARGE (TABLE A-9):

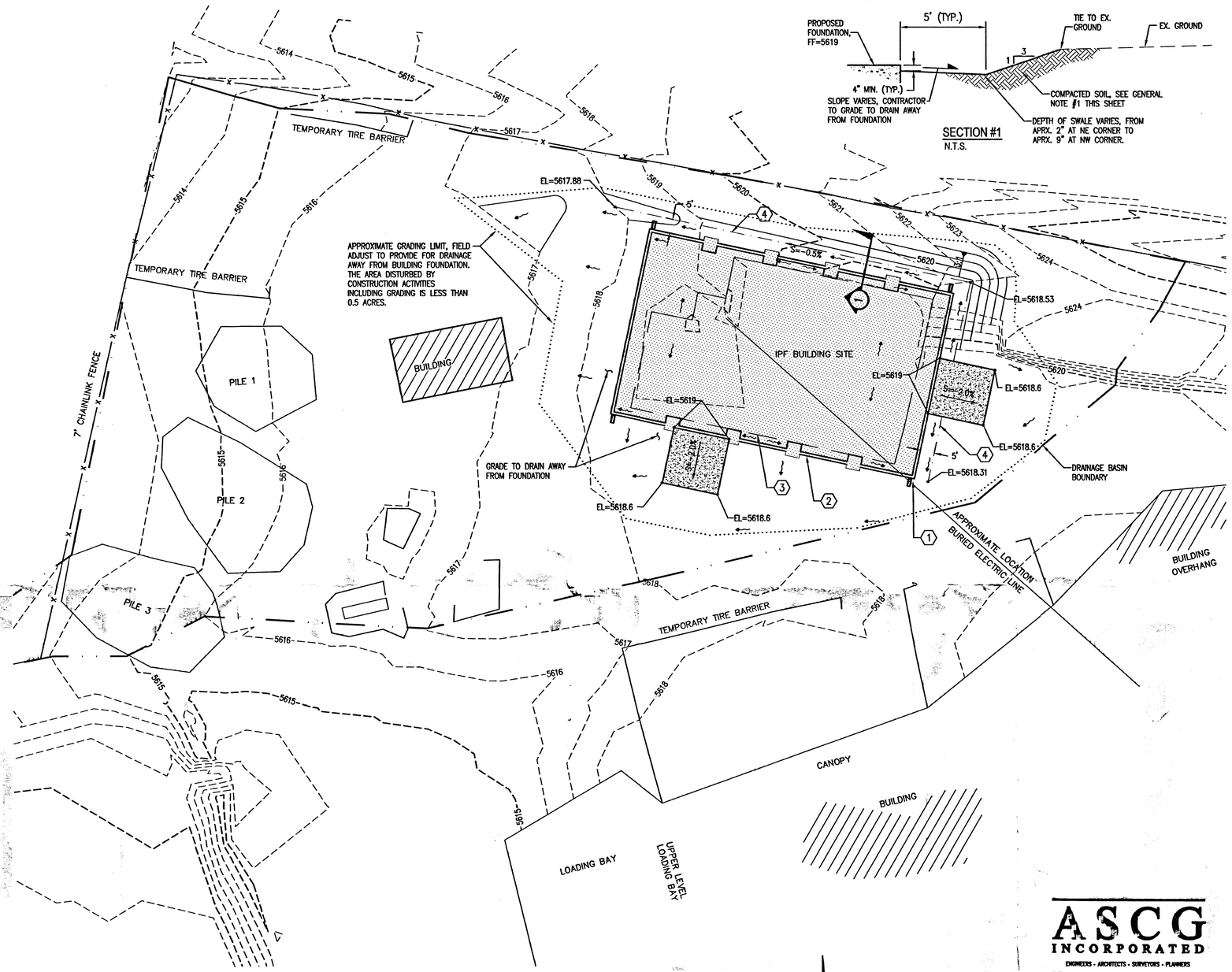
$Q_{P\,(2\text{-}YR)}$ = (1.05 ACRE)*(0.47 CFS/ACRE)+(0.21 ACRE)*(1.69 CFS/ACRE) = 0.85 CFS

$Q_{P\,(10\text{-}YR)}$ = (1.05 ACRE)*(1.49 CFS/ACRE)+(0.21 ACRE)*(2.89 CFS/ACRE) = 2.17 CFS

$Q_{P\,(100\text{-}YR)}$ = (1.05 ACRE)*(2.87 CFS/ACRE)+(0.21 ACRE)*(4.37 CFS/ACRE) = 3.93 CFS

CONCLUSION

THE NEW BUILDING PROPOSED FOR THE IPF SITE WILL NOT SIGNIFICANTLY CHANGE THE HYDROLOGIC CONDITION FOR THE SITE. THE SMALL INCREASE IN IMPERVIOUS AREA WILL INCREASE RUNOFF FROM HISTORIC RATES BY APPROXIMATLY 6% FOR THE 2-YR STORM EVENT, 3% FOR THE 10-YR STORM EVENT, AND 2.5% FOR THE 100-YR STORM EVENT.



SECTION #1
N.T.S.

LEGEND

PROPOSED	EXISTING	DESCRIPTION
5620	5620	CONTOUR
		BUILDING
		CONCRETE
		FLOW ARROW
		DRAINAGE BASIN BOUNDRY

DRAINAGE PLAN
SCALE: 1" =20'

NORTH
ASCG INCORPORATED

ASCG INCORPORATED
ENGINEERS · ARCHITECTS · SURVEYORS · PLANNERS
6501 AMERICAS PARKWAY NE, SUITE 400
ALBUQUERQUE, NEW MEXICO 87110-5372
PHONE 505.247.0294 · FAX 505.242.4845

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

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. | DATE

ENGINEERS SEAL
K. MENG-JACOBSEN
NEW MEXICO
15569
LICENSED PROFESSIONAL ENGINEER
9-26-07

NO.	REMARKS	DATE

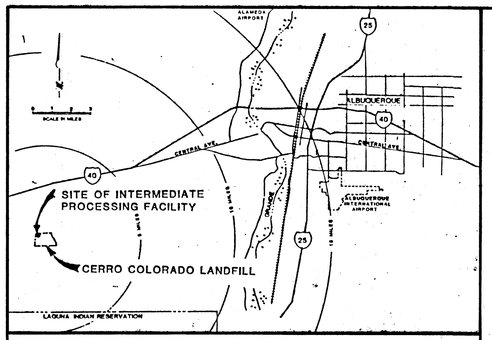
DESIGNED BY — DATE
DRAWN BY — DATE
CHECKED BY — DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
CAPITAL IMPLEMENTATION PROGRAM

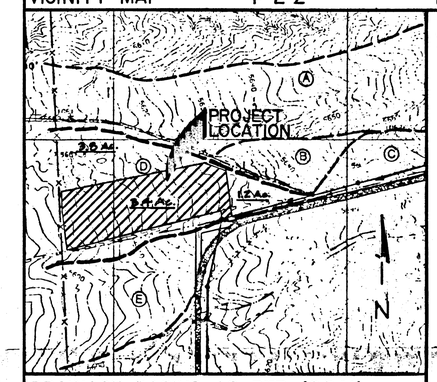
TITLE: DRAINAGE PLAN

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

City Project No.	Zone Map No.	Sheet	Of
7396.01	P-1	4	4



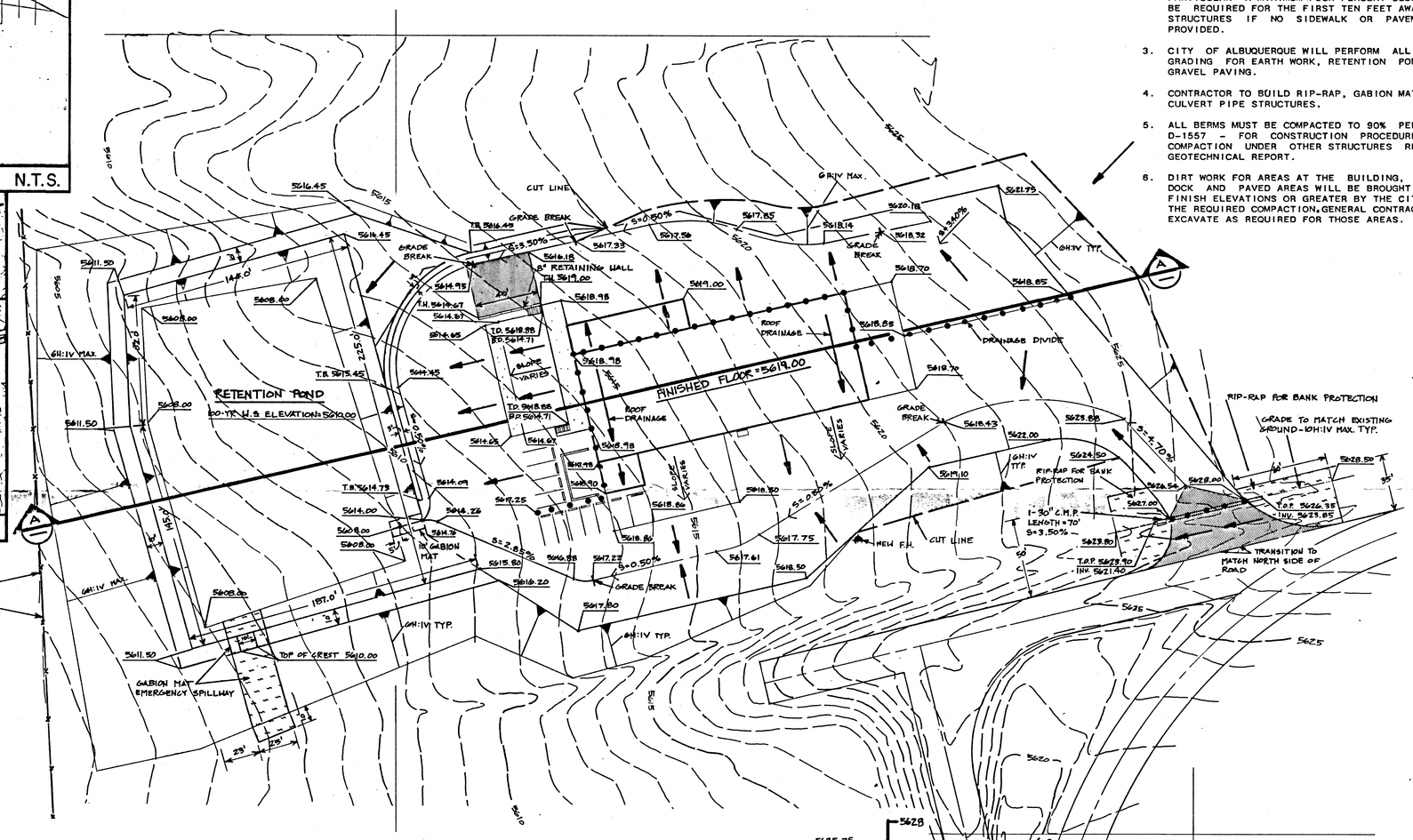
VICINITY MAP P-2-Z N.T.S.



DRAINAGE BASINS AS PER (C.D.M.)

GENERAL NOTES

1. ALL RIP-RAP (d 50 = 6") AND ALL GABION MATS REQUIRE 6" GRAVEL FILTER.
2. REFER TO GEOTECHNICAL REPORT "GEOTECHNICAL INVESTIGATION CERRO COLORADO INTERMEDIATE PROCESSING FACILITY, PREPARED BY VINYARD AND ASSOCIATES, INC., JULY 6, 1992" FOR EARTH WORK PREPARATION AND GRADING PROCEDURES. IN PARTICULAR A MINIMUM FOUR PERCENT SLOPE WILL BE REQUIRED FOR THE FIRST TEN FEET AWAY FROM STRUCTURES IF NO SIDEWALK OR PAVEMENT IS PROVIDED.
3. CITY OF ALBUQUERQUE WILL PERFORM ALL FINISH GRADING FOR EARTH WORK, RETENTION POND, AND GRAVEL PAVING.
4. CONTRACTOR TO BUILD RIP-RAP, GABION MAT, AND CULVERT PIPE STRUCTURES.
5. ALL BERMS MUST BE COMPACTED TO 90% PER ASTM D-1557 - FOR CONSTRUCTION PROCEDURES AND COMPACTION UNDER OTHER STRUCTURES REFER TO GEOTECHNICAL REPORT.
6. DIRT WORK FOR AREAS AT THE BUILDING, LOADING DOCK AND PAVED AREAS WILL BE BROUGHT UP TO FINISH ELEVATIONS OR GREATER BY THE CITY, AT THE REQUIRED COMPACTION. GENERAL CONTRACTOR TO EXCAVATE AS REQUIRED FOR THOSE AREAS.

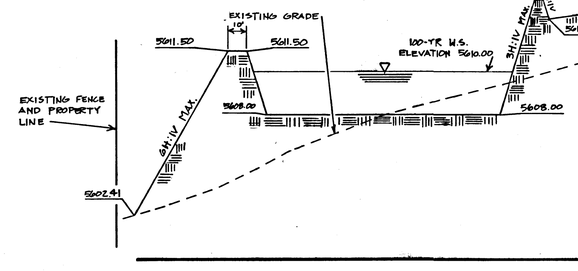


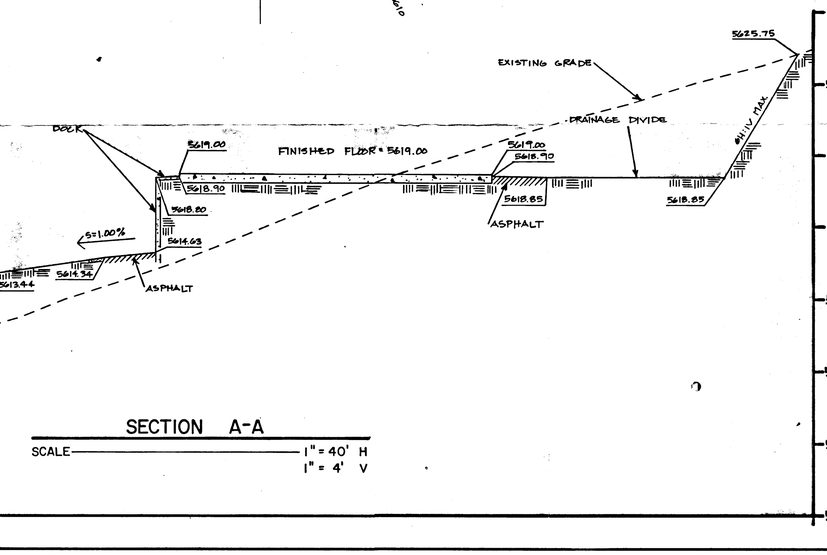
ABBREVIATIONS

T.W.	TOP OF WALL
T.B.	TOP OF BERM
T.D.	TOP OF DOCK
B.D.	BOTTOM OF DOCK
F.F.	FINISHED FLOOR
T.O.P.	TOP OF PIPE
INV.	INVERT OF PIPE
C.M.P.	CORRUGATED METAL PIPE

LEGEND

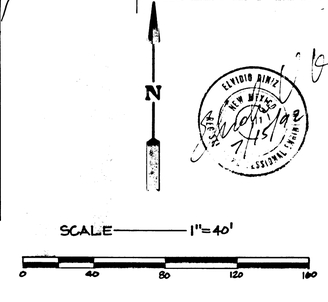
	TRANSITION
	FLOW DIRECTION
57.50	EXISTING ELEVATION
50.00	PROPOSED ELEVATION
	EXISTING CONTOURS
	DRAINAGE DIVIDE
	SLOPE INDICATOR
	RETAINING WALL
	RIP-RAP OR GABION MAT





SECTION A-A

SCALE 1" = 40' H
1" = 4' V



GENERAL NOTES

Site Description:

Present - The site is currently undeveloped with growth of native grasses. It slopes from the east to the west with approximately 18 feet of relief across the extent of the proposed development.

Proposed - The project site will be developed for an intermediate processing facility (recycling center) with some landscaping and unpaved parking. Proposed design will allow on-site and upstream off-site run-off to discharge into a retention pond via swales in the unpaved parking lot. The volume of the pond is designed to retain a 10-day storm with 1.5 ft. of freeboard. The pond will have an emergency spillway weir located on the south side.

Flood Hazard Zone: Zone C

Soil Type : BKD - Bluepoint - Hydrologic Soil Group "A"

Previous Drainage Report : A drainage report titled "Drainage Study, Intermediate Processing Facility, Cerro Colorado Landfill, Camp Dresser and McKee (CDM), February 1992 was used to obtain the area of the drainage basin (D) in which the project site is located.

On-Site Drainage Area : Rectangular shaped site consisting of 148,104 sq ft = 3.4 acres

Off-Site Contributing Drainage : There is some off-site drainage with an area of 1.2 acres reaching the project site from the east. Proposed design will drain this runoff to the proposed retention pond located on the west side of the site. However, to be conservative, the additional area (located north and west of the project site) within off-site basin D (CDM, February 1992) is 3.8 acres and the runoff from this area was also included in the pond volume requirements.

HYDROLOGY

Precipitation Zone 1 (DPM Figure A)

Six Hour Rainfall Depth from NOAA Atlas 2, Volume IV:
10-Year = 1.5 inches
100-Year = 2.2 inches

Peak Rainfall Intensity:
10-Year = 3.1 inches/hour
100-Year = 4.7 inches/hour

Land Treatments : Total Drainage Basin Area = 8.4 acres; proposed development area = 3.4 acres of which 0.1 acres will be landscaping; contributing off-site area = 1.2 acres; non-contributing drainage area = 3.8 acres

Existing Conditions - Land Treatment A = 100 % = 8.4 acres (Total Drainage Basin D)

Developed Conditions - Land Treatment A = 59 % = 8.0 acres (Total Drainage Basin D) (Off-site Basin (contributing and non-contributing))

Land Treatment B = 2 % = 0.1 acres (landscaping)

Land Treatment D = 39 % = 3.3 acres (Building and Parking Lot)

Excess Precipitation (DPM Table 8)

	10-yr. (in.)	100-yr. (in.)
Zone 1 Land Treatment A	0.08	0.44
Zone 1 Land Treatment B	0.22	0.67
Zone 1 Land Treatment D	1.24	1.97

Peak Discharge per Land Treatment (DPM Table 9)

Existing Conditions:
10-Year = Land Treatment A = 0.24 cfs/acre
100-Year = Land Treatment A = 1.29 cfs/acre

Developed Conditions:
10-Year = Land Treatment A = 0.24 cfs/acre
Land Treatment B = 0.78 cfs/acre
Land Treatment D = 2.89 cfs/acre

100-Year = Land Treatment A = 1.29 cfs/acre
Land Treatment B = 2.03 cfs/acre
Land Treatment D = 4.37 cfs/acre

Results for Total Area of 8.4 ac.

6-hr Volume Computation	Existing Conditions	Developed Conditions
Run-off Volume (cu ft)		
10-Year	2,439	16,388
100-Year	13,416	31,828
Peak Discharge (cfs)		
10-Year	2.0	10.8
100-Year	10.8	21.1

10-day 100-yr Volume Computation

100-yr 6-hr runoff volume for developed conditions = 31,828 cu ft
= 0.73 ac-ft

The proposed retention pond for the project site will retain runoff for 10 days, and will also be responsible for retaining off-site drainage that occurs along the east side.

Per DPM Equation (9) for 10-day storms

Volume 10-days = Volume 6-hr (ac-ft) + Land Treatment D area * (10-day depth (in.)) - (6-hour depth (in.)) / 12 in./ft

= 0.73 ac-ft + 3.3 acres * (3.87 in.-2.20 in.) / 12 in./ft = 1.13 ac.ft.

Total Volume Required = 1.13 ac-ft

Pond Computations

At elevation 5608.00, Area = 24,602 sq ft
At elevation 5610.00, Area = 28,556 sq ft

Volume of Pond =
2/3 * (24,602 sq ft + 28,556 sq ft + ((24,602 sq ft * 28,556 sq ft)) ^ 1/2

Total Pond Volume Provided = 53,109 cu ft
= 1.22 ac-ft

Design the pond with a 2-ft depth and 3H:1V side slopes; provide 1.5 ft of freeboard. Therefore, the proposed retention pond has been designed to retain 1.22 ac-ft.

Weir Computations (emergency spillway for Pond)

Peak Discharge 100-yr = 21.1 cfs; assume L = 10 ft. and C = 2.6

H = (Q / C * L) ^ 2/3
H = (21.1 cfs / 2.6 * 10 ft) ^ .67
H = 0.89 ft

Use a gabion mat 1 ft. thick and 10ft. wide as the weir section. The gabion mat must extend to 10 ft. beyond the toe of the dike forming the pond.

Resource Technology, Inc.
ENGINEERS & ENVIRONMENTAL SCIENTISTS
3229 OSUNA NE - SUITE 200, ALBUQUERQUE, NEW MEXICO 87113
TELEPHONE - (505) 345 - 3115

CLAUDIO RIVIZ NEW MEXICO 7/15/92 PROFESSIONAL ENGINEER

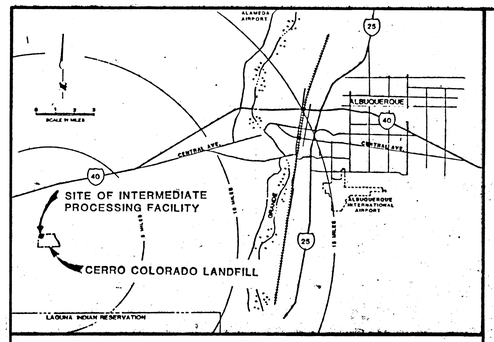
RECEIVED JUL 16 1992 HYDROLOGY DIVISION

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

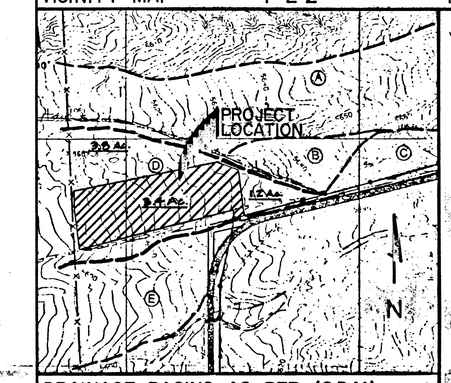
TITLE: CERRO COLORADO
INTERMEDIATE PROCESSING FACILITY CONCEPTUAL GRADING AND DRAINAGE PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORT.			WASTE WATER		
HYDROLOGY					

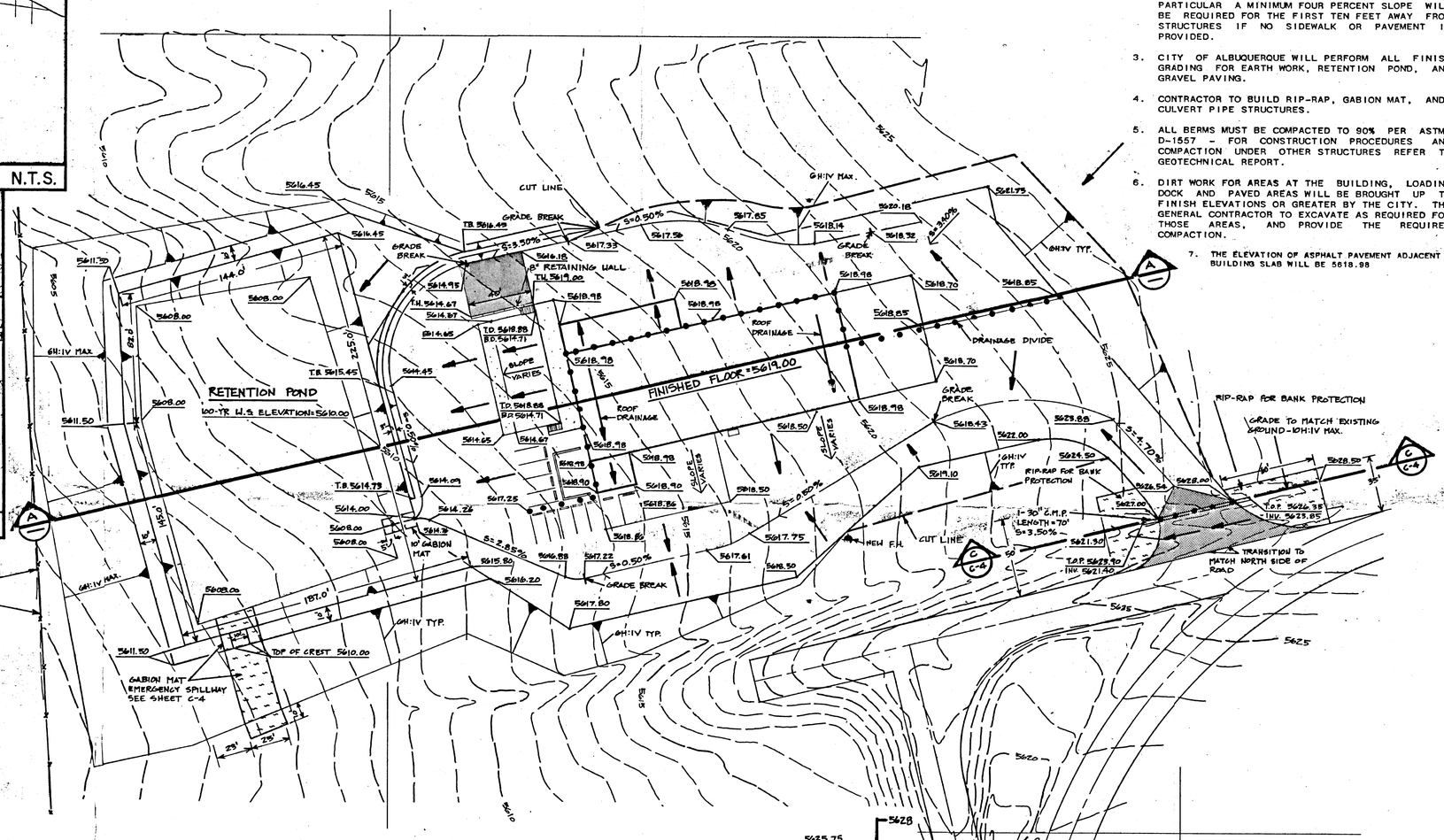
PROJECT NO.	MAP NO.	SHEET OF
	P-2-Z	1 1



VICINITY MAP P-2-Z N.T.S.



DRAINAGE BASINS AS PER (C.D.M.)



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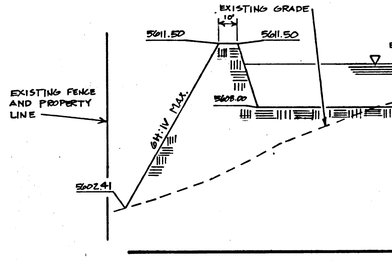

SECTION A-A

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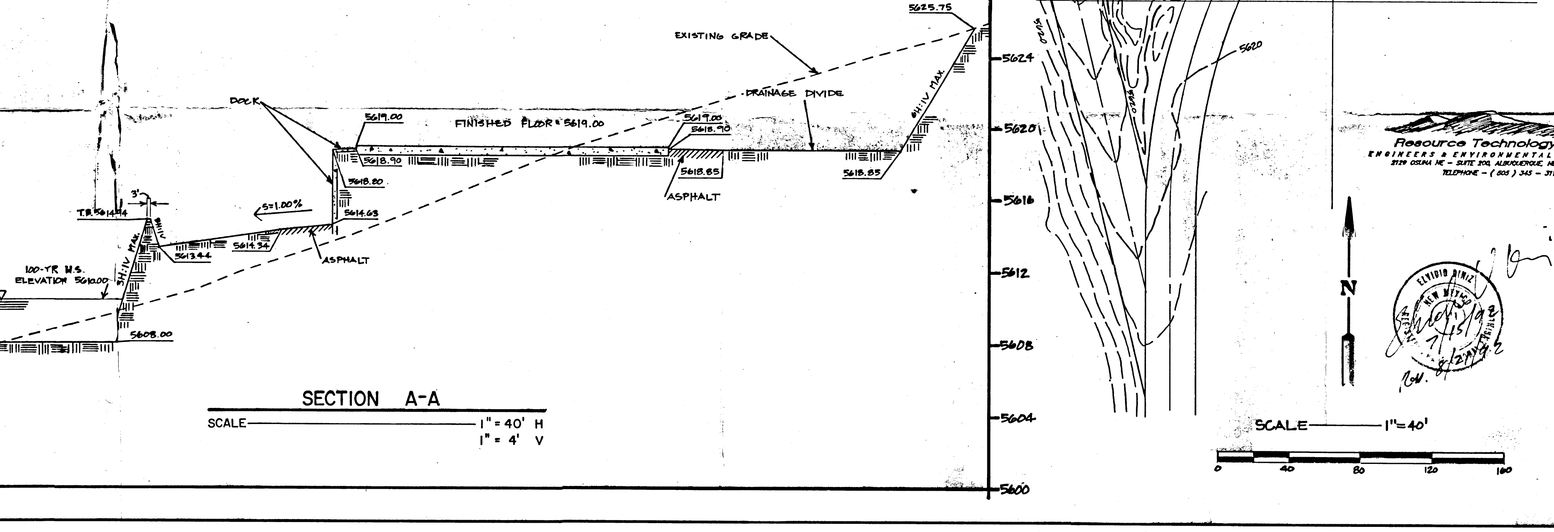

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7. THE ELEVATION OF ASPHALT PAVEMENT ADJACENT TO BUILDING SLAB WILL BE 5618.98

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Total Volume Required = 1.13 ac-ft

Pond Computations

At elevation 5608.00, Area = 24,602 sq ft
At elevation 5610.00, Area = 28,558 sq ft

Volume of Pond =
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Total Pond Volume Provided = 53,109 cu ft
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Design the pond with a 2-ft depth and 3H:1V side slopes; provide 1.5 ft of freeboard. Therefore, the proposed retention pond has been designed to retain 1.22 ac-ft.

Weir Computations (emergency spillway for pond)

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H = (21.1 cfs / 2.6 * 10 ft) ^ .67
H = 0.89 ft

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Resource Technology, Inc.
ENGINEERS & ENVIRONMENTAL SCIENTISTS
3124 OSUNA NE - SUITE 200, ALBUQUERQUE, NEW MEXICO 87113
TELEPHONE - (505) 345 - 3113

SCALE 1"=40'

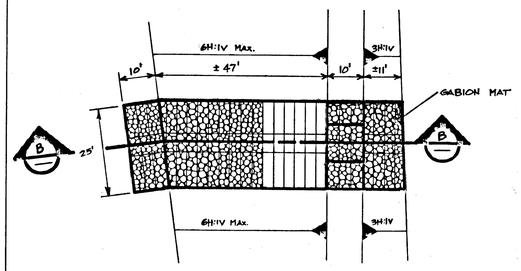
0 40 80 120 160

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: CERRO COLORADO
INTERMEDIATE PROCESSING FACILITY CONCEPTUAL GRADING AND DRAINAGE PLAN

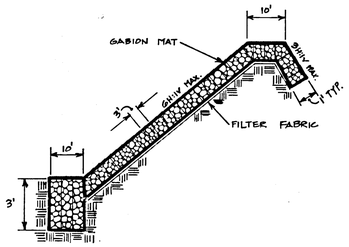
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORT.			WASTE WATER		
HYDROLOGY					

PROJECT NO.	MAP NO.	SHEET	OF
4362	P-2-Z	1	3



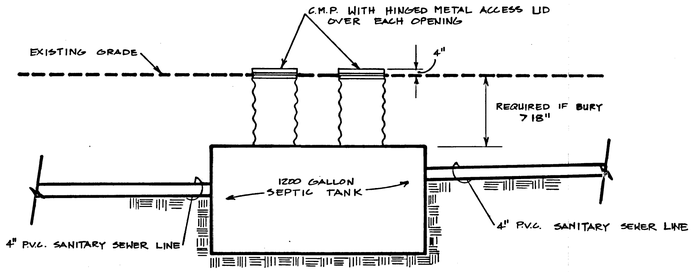
GABION MAT DETAIL

SCALE — 1" = 20'



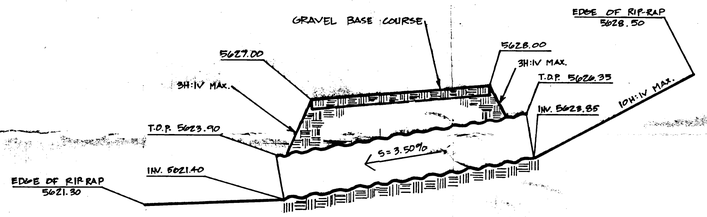
SECTION B-B

SCALE — 1" = 20' H
1" = 4' V



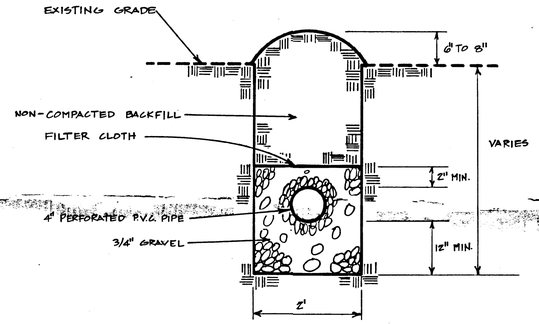
SEPTIC TANK RISER DETAIL

NOT TO SCALE



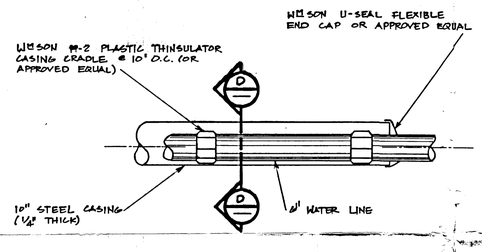
CULVERT DETAIL
SECTION C-C

SCALE — 1" = 20' H
1" = 4' V



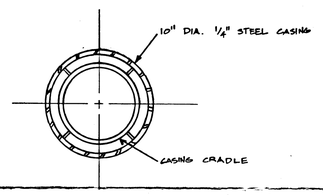
DRAINFIELD TRENCH DETAIL

NOT TO SCALE



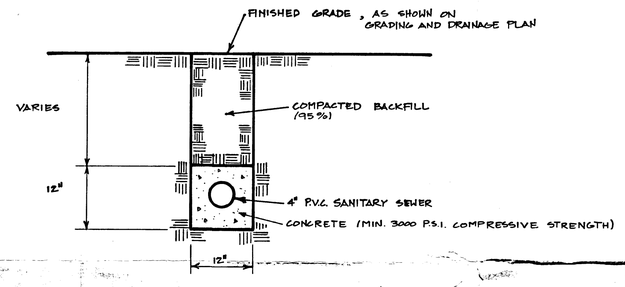
STEEL CASING DETAIL

NOT TO SCALE



SECTION D-D

NOT TO SCALE



CONCRETE ENCASEMENT DETAIL

NOT TO SCALE

General Notes

1. Drainfield Gravel Gradation

Screen Size	% Passing (Wt)
1"	100
3/4"	75-100
No. 4	30-50
No. 30	0-10

AS BUILT INFORMATION

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

BENCH MARKS

SURVEY INFORMATION

NO.	BY	DATE
FIELD NOTES		

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN

DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE

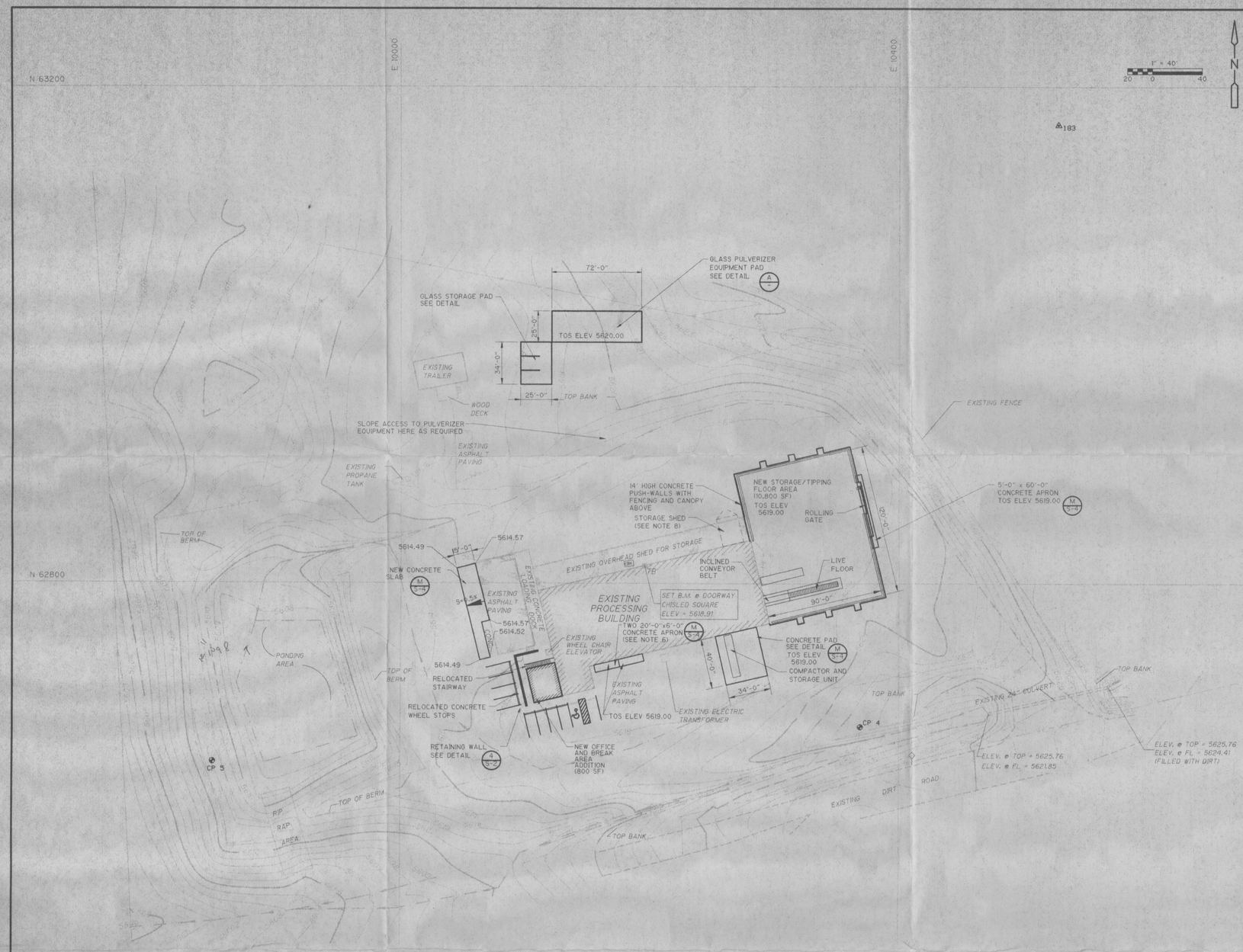
Resource Technology, Inc.
ENGINEERS & ENVIRONMENTAL SCIENTISTS
8729 OSUNA NE - SUITE 200, ALBUQUERQUE, NEW MEXICO 87113
TELEPHONE - (505) 345 - 3115

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: CERRO COLORADO
INTERMEDIATE PROCESSING FACILITY
DETAILS

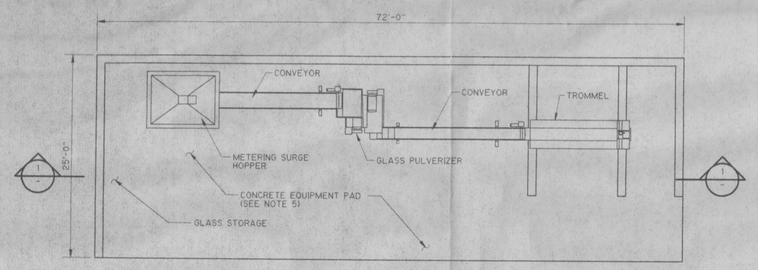
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORT.			WASTE WATER		
HYDROLOGY					

PROJECT NO.	MAP NO.	SHEET	OF
4362	P-2-Z	3	3

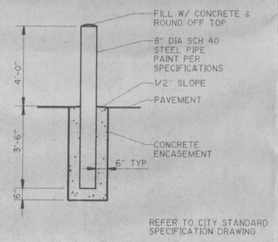


NOTES

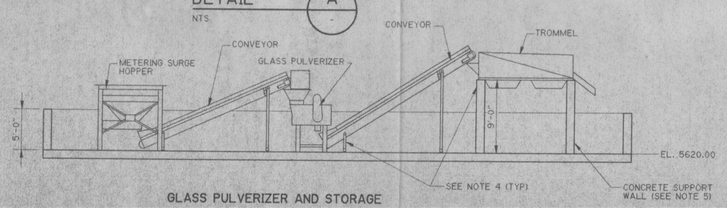
1. CONTRACTOR SHALL GRADE AND SLOPE AREA AROUND THE GLASS PULVERIZER TO ALLOW SURFACE DRAINAGE.
2. CONTRACTOR SHALL KEEP IN MIND THAT THE CITY PLANS TO PREPARE AND APPLY AN ASPHALT SURFACE TO THE AREA SURROUNDING THE BUILDING AFTER THIS PROJECT IS COMPLETE. THE CONTRACTOR SHALL REMOVE ALL MATERIALS, PILES, AND OTHER OBSTRUCTIONS CAUSED BY THE CONTRACTORS OPERATIONS PRIOR TO PROJECT COMPLETION.
3. EXISTING CONDITIONS ARE BASED ON "AS-BUILT" DRAWINGS PROVIDED BY GAMELSKY BENTON ARCHITECTS, P.C. ALL DIMENSIONS AND EQUIPMENT LAYOUT SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OF ALL EQUIPMENT AND STRUCTURES.
4. CONTRACTOR SHALL FASTEN EQUIPMENT TO THE CONCRETE SLAB AND SUPPORT WALLS AS RECOMMENDED BY THE MANUFACTURER.
5. SEE SHEET S-3 FOR STRUCTURAL DESIGN OF THE CONCRETE SLAB, EQUIPMENT SUPPORT, WALLS AND RETAINING WALLS.
6. CONTRACTOR SHALL INSTALL CONCRETE APRONS AT BOTH SOUTH ROLL-UP DOORS. APRONS SHALL BE INSTALLED AND COORDINATED WITH EXISTING COMPACTION UNIT AND STORAGE CONTAINER IN THIS AREA.
7. CONTRACTOR SHALL RESTORE DISTURBED HANDICAPPED AND REGULAR PARKING SPACE TO ITS ORIGINAL CONDITION PRIOR TO COMPLETION.
8. CONTRACTOR TO INSTALL 16' x 24' REINFORCED CONCRETE PAD BELOW THE STORAGE SHED AS REQUIRED BY THE MANUFACTURER. CONTRACTOR SHALL REPAIR ASPHALT SURROUNDING THE SHED TO HAVE A UNIFORM SURFACE.



GLASS PULVERIZER AND STORAGE
DETAIL A
NTS



BOLLARD POST
DETAIL B
NTS



GLASS PULVERIZER AND STORAGE
SECTION 1
NTS

RECEIVED
MAR 09 1998
HYDROLOGY SECTION

CDM Camp Dresser & McKee Inc.
consulting engineering construction operations
121 TUERAS BOULEVARD N.E.
SUITE 1000
ALBUQUERQUE, NEW MEXICO 87102
(505) 243-3200

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY: DATE:
INSPECTED BY: DATE:
ACCEPTANCE BY: DATE:
VERIFICATION BY: DATE:
DRAWINGS: VERIFICATION BY: DATE:
MICRO-FILM INFORMATION
PROCESSED BY: DATE:
NOT:

BENCH MARKS
BASIS OF NO. 305, N 1529931.8, EAST 1527.78 ELEV. 5636.66
BASIS OF NO. 305, N 1527.78, EAST 1529931.8 ELEV. 5636.66
CONTROL POINT NO. 4, N 62,624.476, EAST 15,365.183 ELEV. 5625.82
CONTROL POINT NO. 5, N 62,656.617, EAST 15,948.846 ELEV. 5612.21

SURVEY INFORMATION
FIELD NOTES
NO. BY

ENGINEER'S SEAL
THOMAS D. PARKER
NEW MEXICO
(11272)
REGISTERED PROFESSIONAL ENGINEER

REVISIONS
NO. DATE REMARKS BY
DESIGN
DESIGNED BY: TL BROOKS DATE: MAR 1998
DRAWN BY: RS PALMER DATE: MAR 1998
CHECKED BY: DJ HENRICKSEN DATE: MAR 1998

CITY OF ALBUQUERQUE
SOLID WASTE MANAGEMENT DEPARTMENT

INTERMEDIATE PROCESSING FACILITY (IPF) EXPANSION
CERRO COLORADO MUNICIPAL SANITARY LANDFILL
SITE PLAN AND CIVIL DETAILS

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

City Project No. 5659.90 | Zone Map No. P-2-Z | Sheet C-1 | 3 Of 26