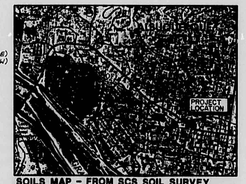
BENCH MARK

AN ACS ALUMINUM CAP STAMPED "13 _ J13 1913" SET FLUSH WITH THE CURB AT THE LOMAS-CENTRAL AVE. INTERSECTION.
STATE PLANE COORDINATES:
x = 374864.68 y = 1489527.09
ELEV. = 4953.44 FEET

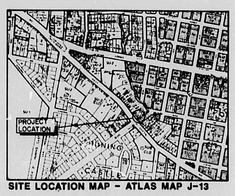
NOTE: TYPICAL PAVING IN PARKING AREA IS 2" ASPHALT ON 4" COMPACTED SUBBASE. SEE SHT. C-1 FOR DETAIL

LEGEND

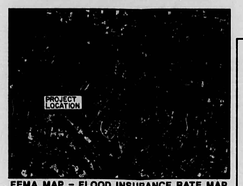
- EXISTING CONTOUR (1 FT. INTERVALS)
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- DIRECTION OF FLOW
- BASIN BOUNDARY
- EXISTING SANITARY SEWER
- EXISTING WATER LINE
- EXISTING POWER LINE
- LANDSCAPE AREA



SOILS MAP - FROM SCS SOIL SURVEY OF BERNALILLO COUNTY



SITE LOCATION MAP - ATLAS MAP J-13



FEMA MAP - FLOOD INSURANCE RATE MAP PANEL 28, 9/15/83

DRAINAGE PLAN

THE TRACT OF LAND IS DESCRIBED AS TRACTS 96-C AND 103 IN SECTION 18, TOWNSHIP 10 NORTH, RANGE 3 EAST, NEW MEXICO PRINCIPAL MERIDIAN, CITY OF ALBUQUERQUE AS DESIGNATED ON THE MRGCD MAP NUMBER 38.

THE AREA OF LAND CONSIDERED IN THIS PLAN INCLUDES THE TRACTS DESCRIBED ABOVE PLUS THE ACCESS EASEMENT AND SIDEWALKS AS SHOWN. THIS AREA IS 14175.0 SQ. FT. OR 0.325 ACRES, MORE OR LESS. ALL OF THE FLOWS CONSIDERED IN THIS ANALYSIS ORIGINATE FROM THE SITE ITSELF AND FLOW SOUTH OFF THE PROPERTY ONTO CENTRAL AVE. AND LAGUNA PLACE. THE AREA IS CURRENTLY DEVELOPED WITH DETERIORATED PAVEMENT.

EXISTING CONDITIONS:

Q=CIA WHERE Q = FLOW IN CFS, I = INTENSITY OF RAINFALL, A = AREA IN ACRES.

SOIL TYPE IS THE VINTON SANDY LOAM, HYDROLOGIC SOIL TYPE B. FOR THIS TYPE AND FROM DPM UPDATE VOL. 1 THE RUNNOFF FACTOR IS 0.95. FOR THE LOCATION AND TIME OF CONCENTRATION OF 10 MINUTES THE INTENSITY IS I = 4.86 INCHES PER HOUR, THEREFORE:

Q(100 YR.) = (0.95)(4.86)(0.325) = 1.5 CFS.

FOR THE VOLUME RUNOFF, USING THE SCS METHOD, WITH A CURVE NUMBER (CN) FROM PLATE 22.2 C-3, CN = 0.92 (COMMERCIAL AREA, 85 % PERVIOUS). FROM PLATE 22.2 D-2 THE POINT RAINFALL IS 2.3" FOR A 6 HOUR EVENT. THUS, USING PLATE 22.2 C-4, THE DIRECT RUNOFF IS 1.5 INCHES. THEREFORE THE VOLUME OF RUNOFF IS:

VOL = 1.5 IN x 0.325 AC. = 0.49 AC.IN. OR 1769.0 CU.FT.

PROPOSED CONDITIONS:

THE DRAINAGE AREA IS BROKEN INTO 4 BASINS AS FOLLOWS:
BASIN A: BUILDING ROOF TOP
BASIN B: PARKING AREA
BASIN C: LANSCAPED AREAS
BASIN D: SIDEWALKS

FLOW RATES, AND VOLUMES (100 YR):

BASIN	A (ACRES)	To (MIN)	%IMP	C	6 HR RAIN (INCHES)	I	Q=CIA (CFS)	VOL* (CU.FT.)
A	0.09	10	95	.95	2.3	4.86	0.42	327.
B	0.165	10	95	.95	2.3	4.86	0.76	599.
C	0.04	10	0	.25	2.3	4.86	0.05	0.
D	0.03	10	95	.95	2.3	4.86	0.14	109.
TOTALS							1.37	1035.*

* THIS VOLUME IS COMPUTED USING THE SCS METHOD AS DESCRIBED ABOVE.

CONCLUSION:

AS CAN BE SEEN THE PROPOSED CONDITIONS IN TERMS OF FLOW AND VOLUME DO NOT EXCEED THE EXISTING. THIS IS DUE IN PART TO THE ADDITONAL LANDSCAPE AREAS OF BASIN C. THEREFORE THE STORM SEWER AND RUNOFF CAPACITIES WILL NOT BE AFFECTED ADVERSELY. ALSO AROUND THE ENTIRE PERIMETER OF THE SITE THE FINSIHED GRADES MATCH WITH EXISTING, THUS MINOR FLOWS THAT ENTER THE SITE FROM ADJACENT PROPERTY IS UNAFFECTED.

NOTES

1. THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE (PH. 765-1234) TWO WORKING DAYS PRIOR TO ANY EXCAVATION FOR LOCATION OF EXISTING UTILITIES.
2. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES. SHOULD A CONFLICT EXIST THE CONTRACTOR SHALL NOTIFY THE ARCHITECT SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
3. PRIOR TO PLACING FILL ON THE SITE, THE EXISTING SURFACE SHALL BE CLEARED OF DEBRIS, VEGETATION AND OTHER DELETERIOUS MATERIAL, MOISTENED TO OPTIMUM MOISTURE AND COMPACTED TO 90% OF OPTIMUM DENSITY PER ASTM D-1557.
4. FILL MATERIAL SHALL BE FREE FORM DEBRIS, ACCEPTABLE TO THE OWNER OR HIS DESIONATED REPRESENTATIVE.
5. FILL SHALL BE MOISTENED TO OPTIMUM MOISTURE, PLACED IN 8" LOOSE LIFTS AND COMPLACTED TO:
   90% MINIMUM OVER THE ENTIRE SITE.
   95% BENEATH AND EXTENDING 2'-0" FROM WALL AND BUILDING FOOTINGS. SEE STRUCTURAL SHEET FOR ADDITIONAL GRADING NOTES.

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REVISE IN BLUE NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 11-19-87

BOHANNAN HUSTON, INC.

PROJECT TITLE: INDIAN SILVER CRAFTS, INC. ALBUQUERQUE, N.M.

CONTENTS: GRADING PLAN

REVISIONS	DRAWN	PAGE
DEC. 2, 1987	CHECKED	SHEET C-2
	PROJECT NO. 87119.00	

J-13/D041

FILE 21 DATE 2-24-93 OF 1-8-P
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THIS PLAN SHOT TWICE ONCE ON LIGHT AND ONCE ON DARK.

CITY OF ALBUQUERQUE
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PLANS/PLATS ON FILE

FILE DESC: J-13/D041

PLANS/PLATS 1

F 30 D 24 C 20 B 16 A 12

CITY OF ALBUQUERQUE

C D F

BENCH MARK

AN ACS ALUMINUM CAP STAMPED "13 _ J13 1983" SET FLUSH WITH THE CURB AT THE LOMAS - CENTRAL AVE. INTERSECTION.
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ELEV. = 4953.44 FEET

NOTE: TYPICAL PAVING IN PARKING AREA IS 2" ASPHALT ON 4" COMPACTED SUBBASE. SEE SHT. C-1 FOR DETAIL

LEGEND

- EXISTING CONTOUR (1 FT. INTERVALS)
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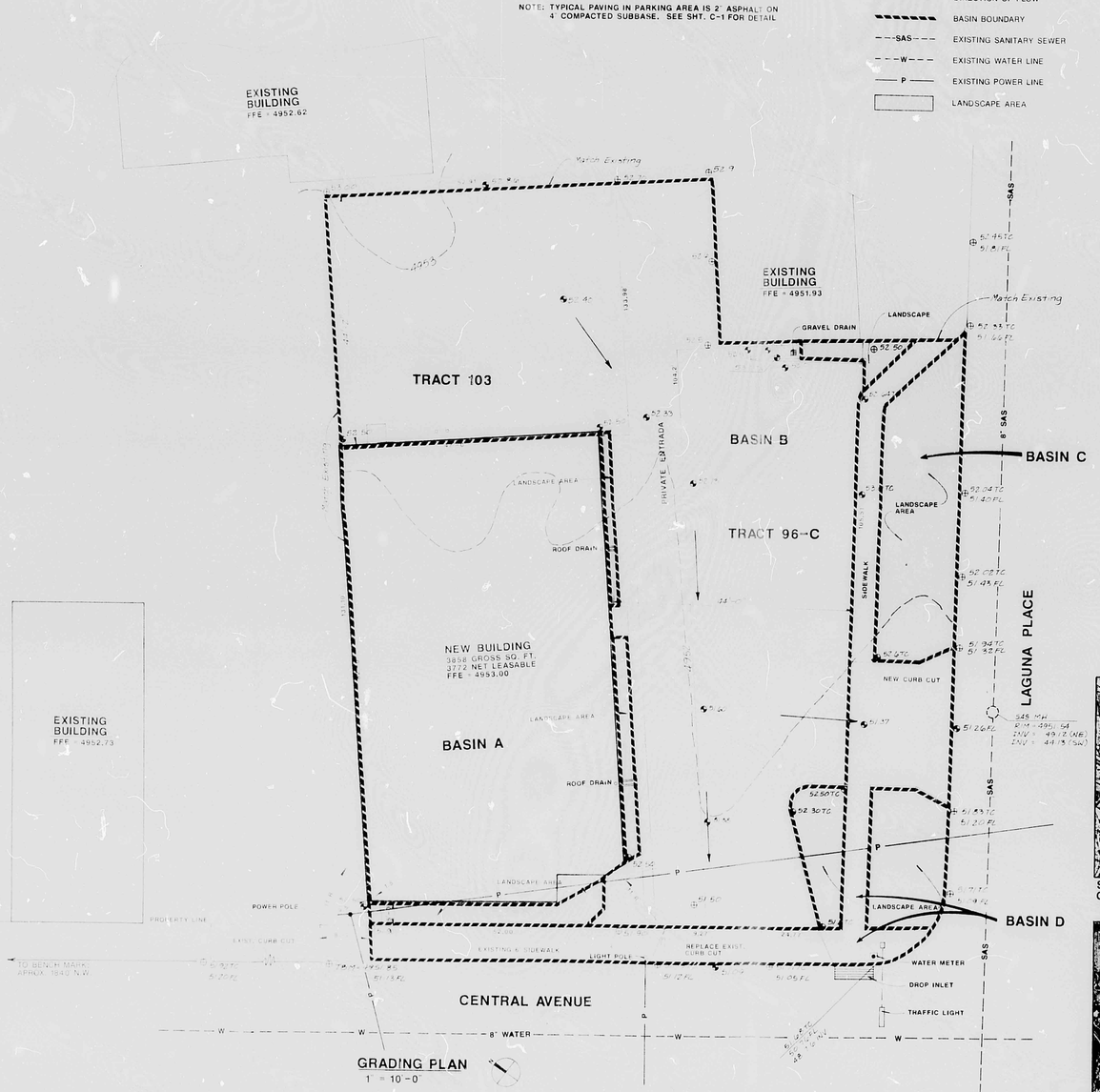
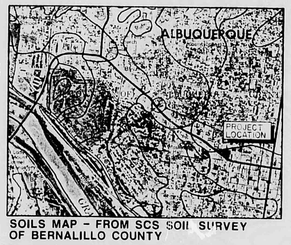
- PROPOSED SPOT ELEVATION
- DIRECTION OF FLOW
- BASIN BOUNDARY
- ---SAS--- EXISTING SANITARY SEWER
- ---W--- EXISTING WATER LINE
- ---P--- EXISTING POWER LINE
- LANDSCAPE AREA



GRADING PLAN
1" = 10'-0"



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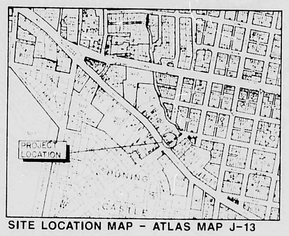

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B	0.165	10	95	.95	2.3	4.86	0.76	599.
C	0.04	10	0	.25	2.3	4.86	0.05	0.
D	0.03	10	95	.95	2.3	4.86	0.14	109.
TOTALS							1.17	1035.

* THIS VOLUME IS COMPUTED USING THE SCS METHOD AS DESCRIBED ABOVE.

CONCLUSION:

AS CAN BE SEEN THE PROPOSED CONDITIONS IN TERMS OF FLOW AND VOLUME DO NOT EXCEED THE EXISTING. THIS IS DUE IN PART TO THE ADDITIONAL LANDSCAPE AREAS OF PARKING AREA. THE STORM SEWER SYSTEM DOWNSTREAM WILL NOT BE AFFECTED ADVERSELY. ALSO AROUND THE ENTIRE PERIMETER OF THE SITE THE FINISHED GRADES MATCH WITH EXISTING. THUS MINOR FLOWS THAT ENTER THE SITE FROM ADJACENT PROPERTY IS UNAFFECTED.

NOTES

1. THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE (PHONE 1-800-321-7020) WORKING DAYS PRIOR TO ANY EXCAVATION FOR LOCATION OF EXISTING UTILITIES.
2. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES. SHOULD A CONFLICT EXIST THE CONTRACTOR SHALL NOTIFY THE ARCHITECT SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
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BOHANNAN HUSTON, INC.

PROJECT: INDIAN SILVER CRAFTS, INC. ALBUQUERQUE, N.M.

TITLE: GRADING PLAN

REVISIONS	DRAWN	DATE
	CHECKED	
	DATE	
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THIS PLAN SHOT TWICE ONCE ON LIGHT AND ONCE ON DARK.

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