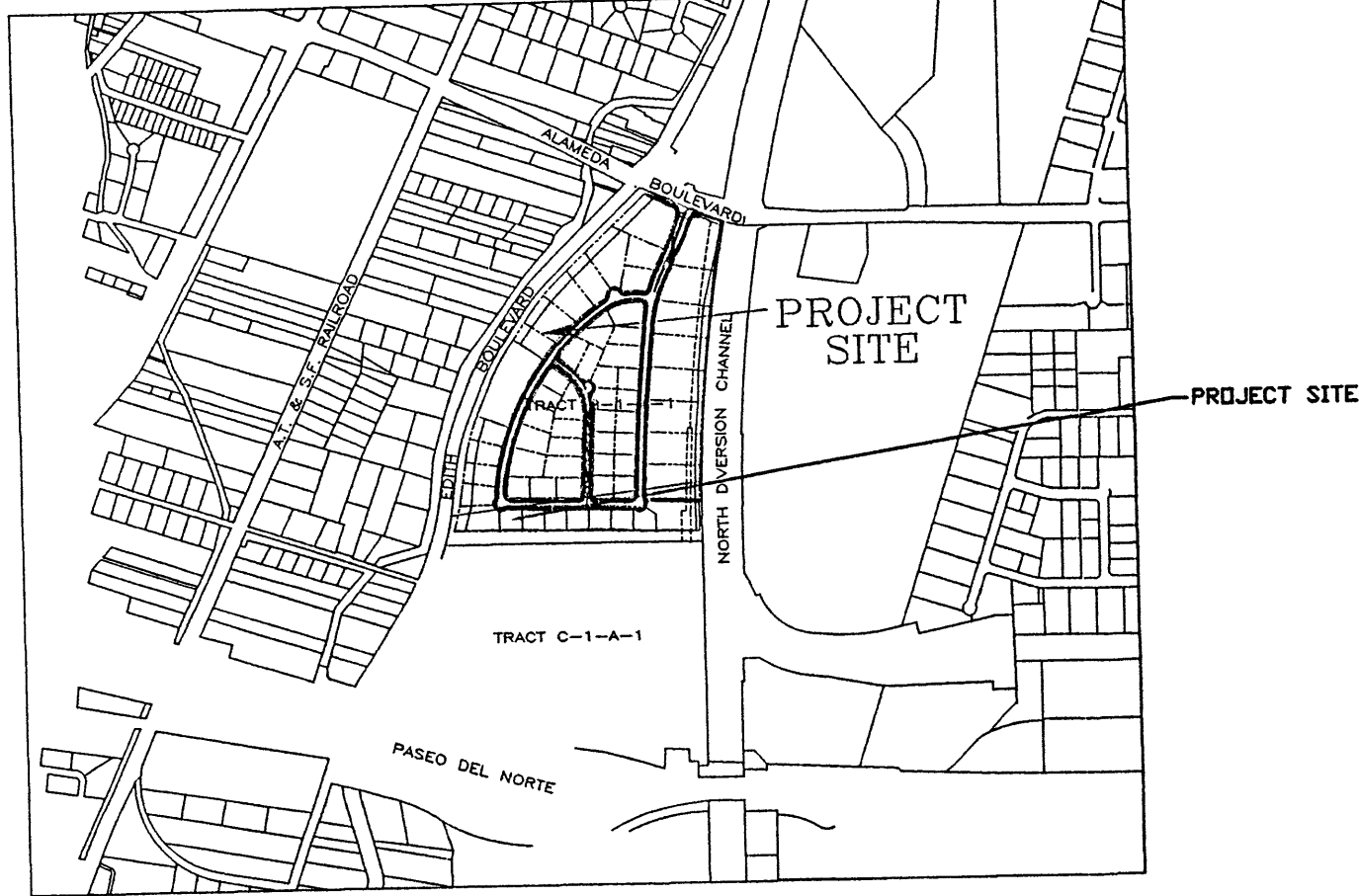
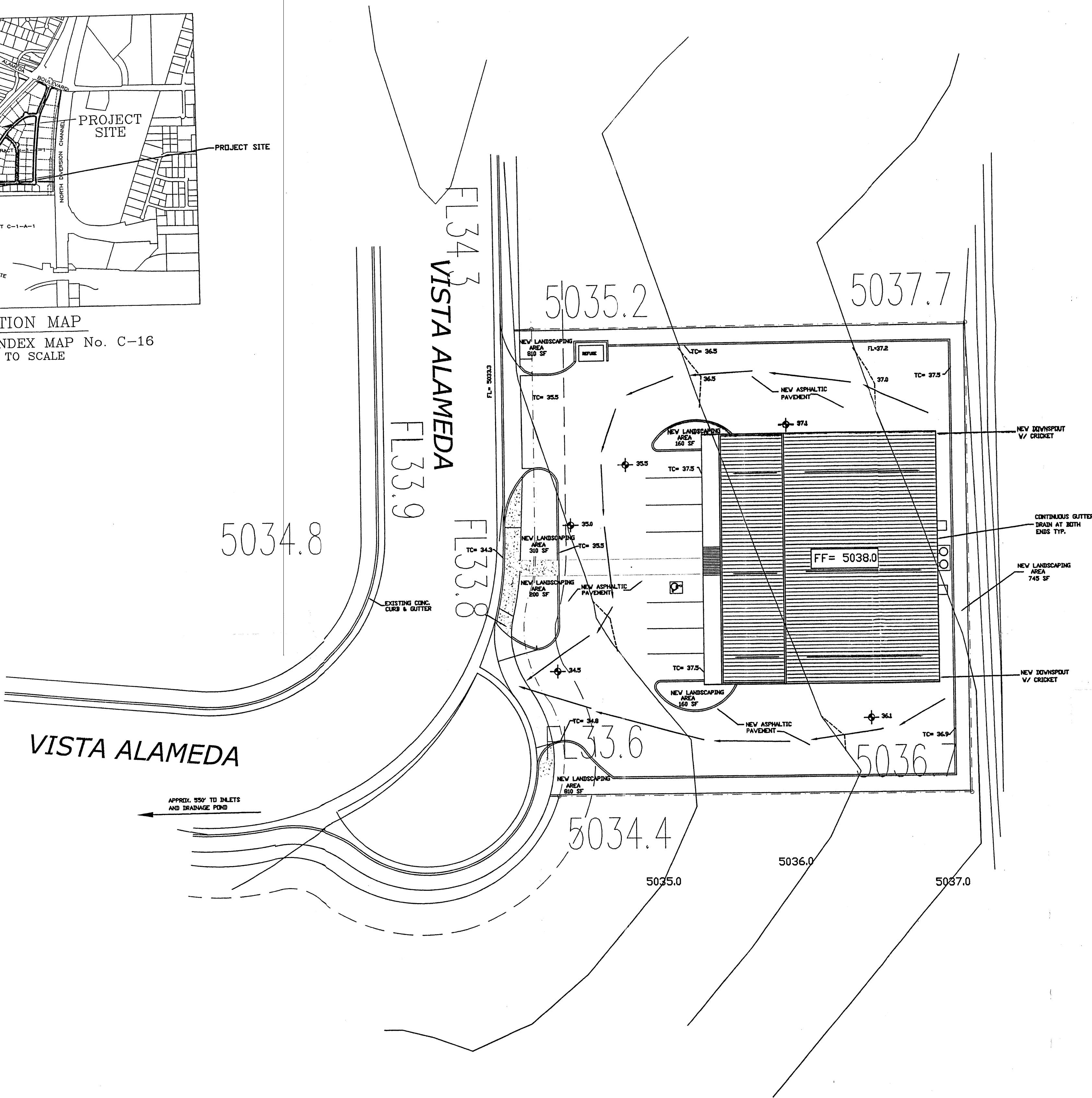


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LOCATION MAP
ZONE ATLAS INDEX MAP No. C-16
NOT TO SCALE



EXISTING CONTOUR	---
NEW CONTOUR	- - - - -
TOP OF CURB	TC
TOP OF ASPHALT	TA
SPOT ELEVATION (NEW)	⊕
FLOWLINE (NEW)	→

GRADING/DRAINAGE PLAN
THE FOLLOWING ITEMS CONCERNING LOT 14 ALAMEDA
BUSINESS PARK ARE CONTAINED HEREON:
1. VICINITY MAP
2. DRAINAGE CALCULATIONS

TRI-STAR BUILDING AREA = 0.5134 ACRES
ALAMEDA BUS. PARK
ZONE 2
PRECIPITATION: 360 = 2.35 IN.
1440 = 2.75 IN.
100A = 3.95 IN.

EXCESS PRECIPITATION:	PEAK DISCHARGE:
TREATMENT A 0.53 IN.	1.56 CFS/AC.
TREATMENT B 0.78 IN.	2.28 CFS/AC.
TREATMENT C 1.13 IN.	3.14 CFS/AC.
TREATMENT D 2.12 IN.	4.70 CFS/AC.

EXISTING CONDITIONS:	PROPOSED CONDITIONS:
TREATMENT A 0 AC.	0 AC.
TREATMENT B 0 AC.	0 AC.
TREATMENT C 0.514 AC.	0.4408 AC.
TREATMENT D 0 AC.	0.0734 AC.

EXISTING EXCESS PRECIPITATION:
WEIGHTED E = 0.53 (0.00) + 0.78 (0.00) + 1.13 (2.01) + 2.12 (0.00) / 2.01 AC.
= 1.13 IN.
V100 -360 = 1.13 (2.01) / 12 = 0.183 ACFT. = 8244 CFS

EXISTING PEAK DISCHARGE:
Q100 = 1.56 (0.00) + 2.28 (0.00) + 3.14 (2.01) + 4.70 (0.00)
= 8.311 CFS

PROPOSED EXCESS PRECIPITATION
WEIGHTED E = 0.53 (0.00) + 0.78 (0.00) + 1.13 (0.0734) + 2.12 (4.408) / 2.01 AC.
= 0.506 IN.
V100 -360 = .506 (2.01) / 12 = 0.1301 ACFT = 8281 CFS
V100 -1440 = 0.19 + .0734 X (2.75 - 2.35) / 12 = 0.0024 ACFT = 206 CFS
V100 -1440 = 0.19 + .0734 X (3.85 - 2.35) / 12 = 0.0636 ACFT = 2771 CFS

BENCHMARK:
THE STATION IS LOCATED 0.35 MILES NORTH OF THE
RICHFIELD ROAD BRIDGE OVER THE AMAFCA NORTH
DIVERSION CHANNEL.
STATION IS AMAFCA BRASS TABLET STAMPED "NDC 7-1A"
SET ON A CONCRETE POST PROJECTED 0.3 FEET ABOVE GROUND
ELEVATION: 5053.10

EROSION CONTROL MEASURES
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGEMENT
OF STORM RUN-OFF DURING CONSTRUCTION, HE/SHE SHALL
ASSURE THAT THE FOLLOWING MEASURES ARE TAKEN
1. ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES
BY TEMPORARY BERM, DIKES, SWALES, AND OTHER
TEMPORARY GRADING AS REQUIRED TO PREVENT STORM
RUN-OFF FROM LEAVING THE SITE AND ENTERING ADJACENT
PROPERTY.
2. ADJACENT PUBLIC RIGHT-OF-WAY SHALL BE PROTECTED
AT ALL TIMES FROM STORM WATER RUN-OFF FROM THE
SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO
ENTER THE PUBLIC STREETS.

DRAINAGE CERTIFICATION
I, HAROLD L. BENNETT, P.E., N.M.P.E. # 10776 HEREBY
CERTIFY THAT THE AS-BUILT DRAINAGE
CONDITIONS OF THE SITE ARE IN SUBSTANTIAL
COMPLIANCE WITH THE APPROVED GRADING AND
DRAINAGE PLAN, TO THE BEST OF MY KNOWLEDGE
AND BELIEF. AS-BUILT ELEVATIONS ARE SHOWN ON
THE PLAN WHERE THE ORIGINAL DESIGN ELEVATION
HAS BEEN CROSSED OUT AND THE AS-BUILT
ELEVATION ADDED. AS-BUILT ELEVATIONS WERE
VERIFIED BY A SAMPLING BASIS. THIS STATEMENT
DOES NOT REPRESENT CERTIFICATION OF
CONTRACTOR'S METHODS OR MATERIALS.
NAME: Harold L. Bennett
DATE: 3-13-2001

EXISTING CONDITIONS
AS SHOWN BY THE VICINITY MAP, THE SITE CONTAINS 0.5134 ACRES
AND IS LOCATED SOUTH OF VISTA ALAMEDA BLVD., ONE LOT EAST OF
EDITH BOULEVARD.
THE SITE HAS BEEN GRADED TO DRAIN FROM SOUTH TO NORTH.
ACCORDING TO THE FLOOD INSURANCE RATE MAP PANEL 0136D,
DATED SEPTEMBER 20, 1996, THE SITE IS NOT LOCATED WITHIN A
DESIGNATED FLOOD ZONE.

PROPOSED CONDITIONS
AS SHOWN BY THE GRADING/DRAINAGE PLAN, THE PROJECT WILL
CONSIST OF ONE OFFICE/WAREHOUSE BUILDING TOTALING
5,800 SQ. FT. ALONG WITH ASSOCIATED PAVED PARKING AND
LANDSCAPED AREAS. A MASTER DRAINAGE PLAN WAS PREPARED
BY BOHANNAN-HOUSTON IN FEBRUARY OF 1999. ON-SITE RUN-OFF
WILL TRAVEL ON VISTA ALAMEDA AND INTO INLETS WHICH DRAIN INTO
A COMMON POND PROVIDED BY THE MASTER DRAINAGE PLAN (TRACT A).
THE CALCULATIONS WHICH APPEAR HEREON, ANALYZE THE EXISTING AND
PROPOSED CONDITIONS FOR THE 100-YEAR, 6-HOUR EVENT. THE
PROCEDURE FOR 40 ACRES AND SMALLER BASINS, AS SET FORTH IN
THE REVISION OF SECTION 22.2 HYDROLOGY OF THE DEVELOPMENT
PROCESS MANUAL VOLUME II, DESIGN CRITERIA DATED 1997, HAS BEEN
USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF
RUN-OFF GENERATED.

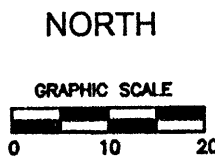
DOWN STREAM CONDITIONS
PER THE APPROVED MASTER DRAINAGE PLAN, FREE DISCHARGE HAS
BEEN ALLOWED INTO A COMMON POND PROVIDED BY THE ALAMEDA
BUSINESS PARK MASTER DRAINAGE PLAN.

bill.buckley
LAS CRUCES, NM

KICC
DESIGN COLLABORATIVE
THE ART AND SCIENCE OF MODERN BUILDINGS

GRADING & DRAINAGE PLAN

SCALE: 1"=20'-0"



RECEIVED
MAR 21 2001
HYDROLOGY SECTION

HLB
HAROLD L. BENNETT
P.E.

PROFESSIONAL ENGINEER
NEW MEXICO
10776
2-13-2001

JOB TITLE:	BDW OFFICE/WAREHOUSE
REVISION:	FILE NAME: JOB NO.: DATE:
	BDW-C1 7/26/00
SHEET TITLE:	DRAWN BY:
GRADING & DRAINAGE PLAN	REZ

C-1