FILE COPY



## City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

HYDROLOGY SECTION 123 Central NW, Albuquerque, NM 87102 (505) 768-7644

September 8, 1986

Mark Goodwin D. Mark Goodwin & Associates, P.A. Post Office Box 21307 Albuquerque, New Mexico 87154

RE: REVISED DRAINAGE PLAN FOR BOWLIN'S, INC. (L-21/D27) ENGINEER'S STAMP DATED SEPTEMBER 11, 1986

Dear Mark:

Based on the information provided on your September 2, 1986 resubmittal, revisions as indicated are acceptable.

If I can be of further assistance, please feel free to call me at 766-7644.

Cordially,

/ Samuif. Montoya Bernie J. Montoya, C.E. Engineering Assistant

BJM/bsj

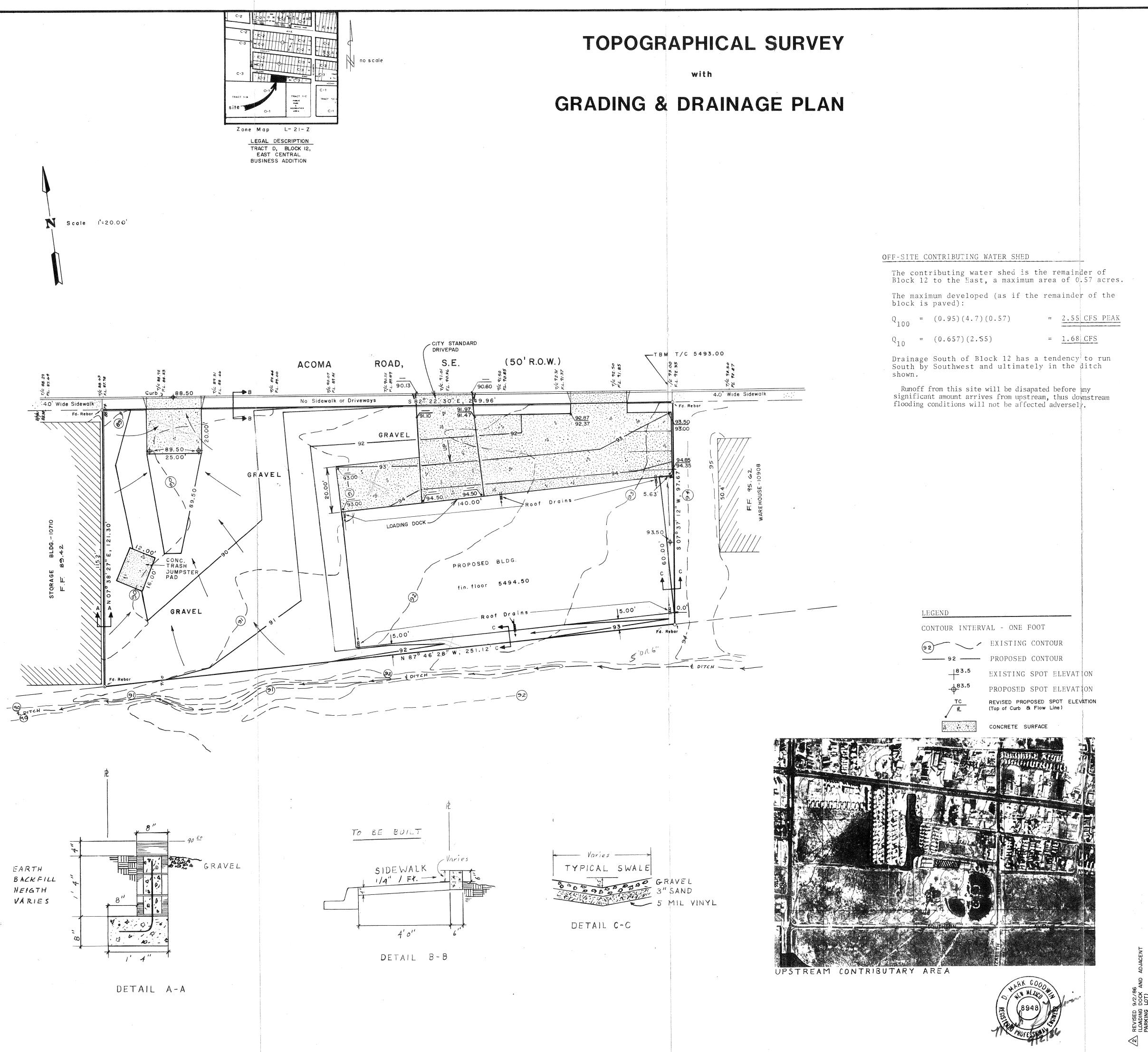
**PUBLIC WORKS DEPARTMENT** 

**ENGINEERING GROUP** 

Telephone (505) 768-2500

## DRAINAGE INFORMATION SHEET

	ZONE ATLAS/DRNG. FILE #1 1-21
PROJECT TITLE: BOWLINS, IN	NC. ZONE ATLAS/DRNG. FILE #: 1-21  Block 12, E. Central Business Addition
EGOL DESCRIPTION:	CE
TY ADDRESS 10808 Acoma	odwin & Assoc. CONTACT: Mark Goodwin  294-9961
INGINEERING FIRM D. Mark Go	00WIII & NM 87154 OHONE: 294-9961
ADDRESS. P.O. Box 2130	Chris Bess
Bowlins, Inc.	CONTACT: 266-5985
ADDRESS: 136 Louisiana	NE PHUNE!
ARCHITECT: N/A	CONTACT:
	PHONE:
Tech, Inc.	CONTACT: Jim Starcher
CONVETURE 222 D Main	, Farmington, NM PHONE:
N/A	CONTACT:
CONTRACTOR: N/A	PHONE:
ADDRESS:	e de la
VES NO HYD COPY OF CONFERENCE RECAR SHEET PROVIDED	SEP 02 1986 PRB NG  EPC NG  PROJ. NG
TYPE OF SUBMITTAL:  DRAINAGE REPORT  DRAINAGE PLAN  CONCEPTUAL GRADING & DRI  X GRADING PLAN  EROSION CONTROL PLAN  ENGINEER'S CERTIFICATION	BUILDING PERMIT APPROVAL  FOUNDATION PERMIT APPROVAL  CERTIFICATE OF OCCUPANCY APPROVAL  ROUGH GRADING PERMIT APPROVAL
	GRADING/PAVING PERMIT APPROVAL  X OTHER Revision (SPECIFY)



0.628 AC. AREA OF SITE 1.73 % SLOPE SOILS GROUP 38.38 % DEVELOPED COVERAGE 0.40 MODIFIED "C" FACTOR 2.45" 100 - YEAR RAINFALL 10 MINUTES TIME OF CONCENTRATION 4.7 IN/HR INTENSITY UNDEVELOPED SITE RUNOFF  $Q_{100} = (0.40)(4.7)(0.628)$ = 1.18 CFS PEAK  $Q_{10} = (0.657)(1.18)$ = 0.78 CFSDEVELOPED SITE RUNOFF BUILDING:  $Q_{100} = (0.90)(4.7)(0.193)$ = 0.816 CFS PEAK  $Q_{10} = (0.657)(0.816)$ = 0.536 CFSGRAVEL (REMAINDER OF SITE): = 0.818 CFS PEAK = (0.657)(0.818)= 0.54 CFSTOTAL: = 1.64 CFS PEAK = 1.08 CFS

## OFF-SITE CONTRIBUTARY RUNOFF AND DISPOSAL

SITE DATA CALCULATIONS

- RUNOFF FROM THIS SITE WILL BE DISPOSED OF BEFORE ANY SIGNIFICANT UPSTREAM RUNOFF APPEARS
- DEVELOPMENT OF THIS SITE WILL NOT SIGNIFICANTLY ALTER EXISTING RUNOFF QUANTITIES OR OTHERWISE EFFECT DOWNSTREAM CONDITIONS
- DISPOSAL IS TO BE FREE INTO ACOMA ROAD, S.E. WHICH HAS EXISTING CURB AND GUTTERS
- THERE ARE NO EXISTING DRAINAGE STRUCTURES IN THE AREA

BENCHMARK IS ACS 5-L21R, A STANDARD ACS BRASS TABLET STAMPED "5-L21 RESET 1974", CEMENTED IN A DRILL HOLE FLUSH WITH THE TOP OF A CONCRETE CURB LOCATED AT THE INTERSECTION OF CENTRAL AVENUE AND EUBANK BOULEVARD WITH AN ELEVATION OF 5466.535 FEET.

TEMPORARY BENCHMARK IS PAINT SPOT ON TOP OF CURB AT NORTHEAST CORNER OF PROPERTY WITH AN ELEVATION OF 5,493.00 FEET.

PROPOSED CONTOURS AND SPOT ELEVATIONS ARE TO FINISH SURFACES.

CONTRACTOR SHALL DETERMINE APPROPRIATE SUBGRADES.

CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL PLAN.
THIS PLAN WILL INCLUDE ABATEMENT OF SEDIMENT UP TO
ABUTTING STREET RIGHT-OF-WAY AND PRIVATE LOTS BY
CONSTRUCTION OF RETAINING WALL (DETAIL A-A) PRIOR
TO EARTH WORK.

## BOWLIN'S, INC. GRADING AND DRAINAGE PLAN

D. MARK. GOODWIN & ASSOCIATES, P.A. CONSULTING ENGINEERS
P.O. BOX 21307

ALBUQUERQUE, NEW MEXICO 87154 (505) 294-9961

Designed:  $\eta/a$  Drawn: n/a Checked: n/a Sheet | of | Date: