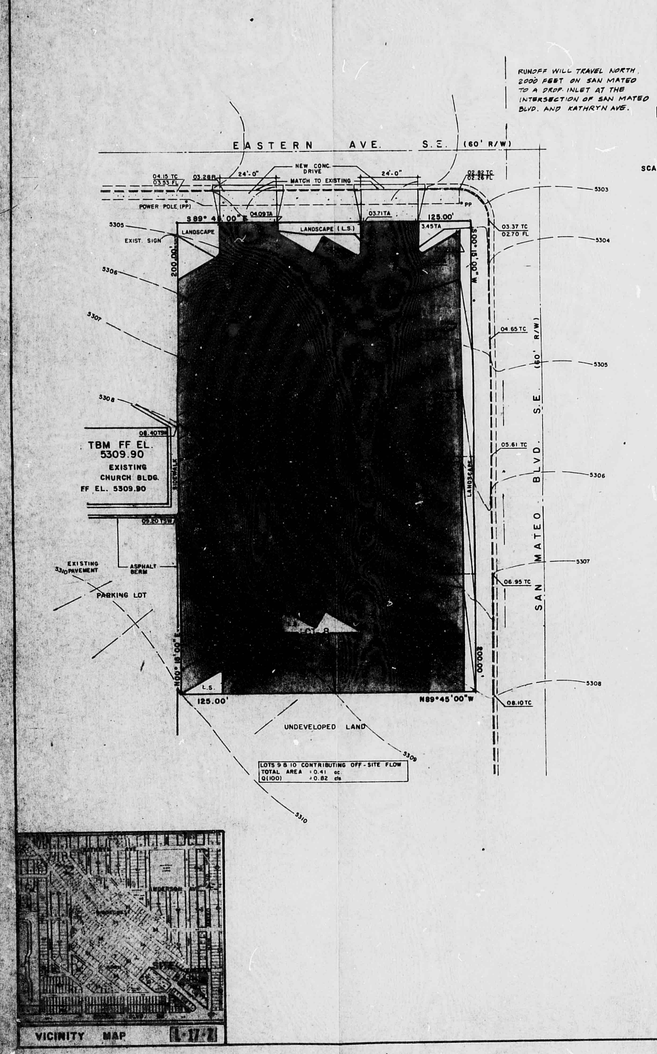
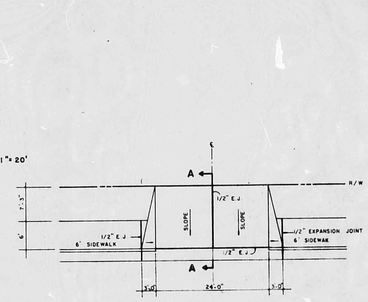
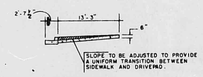
PUBLIC WORKS/HYDROLOGY

L17/D6

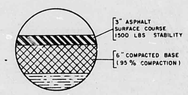






SECTION A-A

DRIVEPADS DETAIL SCALE 1"=10'



PAVING SECTION

NOTE: THIS PLAN HAS BEEN REVISED IN ORDER TO ELIMINATE THE POND. DEVELOPMENT OF THE SITE WILL HAVE A MINIMUM IMPACT ON DOWNSTREAM CAPACITY. REFER TO HIGHLAND DETENTION BASIN STUDY, SYSTEM # 1 PROFILE . PLATE III-2

VICINITY MAP

GRADING AND DRAINAGE PLAN

FOR

RIDGECREST CHRISTIAN CHURCH

SEPTEMBER 1986

DATA

AREA OF THE SITE	25,000 SQ. FT. 0.5739 AC.
SLOPE	3.04% SW TO NE
SOIL GROUP	D
TIME OF CONCENTRATION	10 MINUTES (MIN)
RAINFALL (FL. 22.2, 2-1 DPM)	2.55 IN/HR.
INTENSITY I	$=(6.84)(R_2)/T^{0.51}$ = 4.97 IN/HR

EXISTING CONDITION

THE SITE HAS BEEN GRADED RECENTLY, UNDEVELOPED LAND

"C" FACTOR = 0.40 FOR NATURAL GROUND

DISCHARGE FROM THE SITE

Q(100) = CIA = (0.40)(4.97)(0.5739) = 1.14 CFS 1950 CF

Q(10) = 0.625 Q(100) = 0.71 CFS

EXISTING RUNOFF FLOW OVER SIDEWALK AT NORTHWEST CORNER OF PROPERTY AND DISCHARGES INTO SAN MATEO BLVD. AND WILL CONTINUE ITS PATH TOWARD NORTH.

OFF-SITE FLOW

LOTS 9 AND 10 ARE CONTRIBUTING OFF-SITE FLOW TO THE SITE.

TOTAL AMOUNT OF OFF-SITE FLOW = (0.40)(4.97)(0.4)

= 0.82 CFS

THE PARKING AREA ON THE SOUTHWEST SIDE OF PROPERTY IS BOUNDED BY A 4" HIGH BERM AND HAS A MILD SLOPE TO THE SOUTH.

PROPOSED SITE RUNOFF

THE SITE WILL BE PAVED ENTIRELY UNDER THIS PROPOSAL

"C" FACTOR = (0.95)(19,850) + (0.30)(5150) / 25,000 = 0.81

DISCHARGE FROM THE SITE

Q(100) = CIA = (0.81)(4.97)(0.5739) = 2.31 CFS 3966 CF

Q(10) = 0.625 Q(100) = 1.44 CFS

DISPOSAL

THE SITE IS LOCATED AT THE VERY TOP OF HIGHLAND BASIN LIMIT. ACCORDING TO DATA AVAILABLE FOR HIGHLAND DETENTION FACILITY, AT STATION 192+80, SAN MATEO BLVD. AND ANDERSON AVE. (REFER TO HIGHLAND REPORT PLATE III-2) EXPECTED 100 YRS FLOOD WILL BE 300 CFS. INCREASE IN PEAK RUNOFF DUE TO THIS PROPOSAL WILL BE 1.17 CFS, WHICH HAS AN IMPACT OF 0.39% WHICH IS NEGLIGIBLE. THE SITE IS NOT LOCATED IN A FLOOD ZONE AND IS AN INFILL PROJECT. THEREFORE THIS PROPOSAL SUGGESTS FREE DISCHARGE INTO EASTERN AVE.

LEGAL DESCRIPTION

LOTS 5, 6, 7 AND 8 BLOCK 32, RIDGECREST ADDITION

BENCHMARK INFORMATION

STA. NM ACS G-4, A 3½" ALUMINUM TABLET SET IN CONCRETE PROJECTING 0.5' ABOVE THE ASPHALT PAVEMENT, LOCATED IN THE INTERSECTION OF GIBSON BLVD. AND SAN MATEO BLVD.

EROSION CONTROL STATEMENT

1. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC R.O.W. OR INTO PRIVATE PROPERTY. THIS CAN BE ACHIEVED BY CONSTRUCTING BERMS AT THE PROPERTY LINE AND WETTING THE SOIL TO KEEP IT FROM BLOWING.
2. THIS IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN A TOP SOIL DISTURBANCE PERMIT FROM ENVIRONMENT - HEALTH DEPARTMENT.

LEGEND

5303	EXISTING CONTOUR
5304	PROPOSED CONTOUR
03.45 TA	EXISTING SPOT ELEVATION
	PROPOSED SPOT ELEVATION
TC	TOP OF CURB
TA	TOP OF ASPHALT
FL	FLOW LINE
	FLOW DIRECTION

CONTOUR INTERVAL, ONE FOOT.
PROPOSED SPOT ELEVATIONS AND CONTOURS ARE TO FINISH SURFACES. CONTRACTOR(S) SHALL BE RESPONSIBLE FOR DETERMINING APPROPRIATE SUBGRADE.
ALL THE MATERIAL AND WORK SHALL BE DONE ACCORDING TO CITY SPECIFICATION.

RECEIVED OCT 09 1986 HYDROLOGY SECTION

RICHARD V. PATT NEW MEXICO 7016 REGISTERED PROFESSIONAL ENGINEER

SEPTEMBER 25, 1986 REVISED OCTOBER 8, 1986

WALL ENGINEERING COMPANY INC.

86-393

REV 88 DATE 3-27-02 OR EXP

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 (MS1AS-1977)

DIRECTOR

PLAN SHOT TWICE ONCE ON LIGHT ONCE ON DARK

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

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

PLANS/PLATS ON FILE

FILE DESC: L17/D6

PLANS/PLATS 1

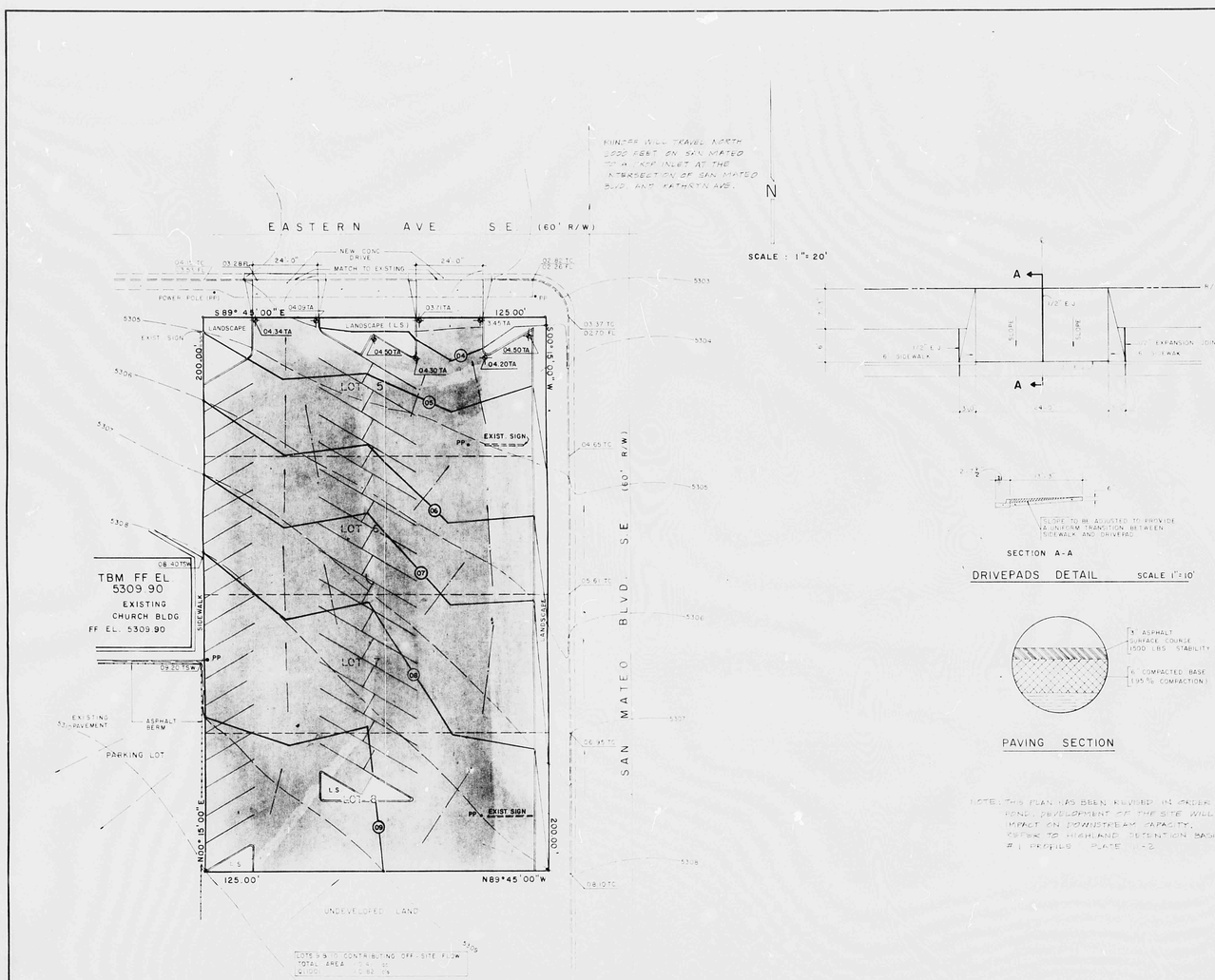
E 30 D 24 C 20 B 16 A 12 CITY OF ALBUQERQUE C D F

GRADING AND DRAINAGE PLAN

FOR

RIDGECREST CHRISTIAN CHURCH

SEPTEMBER 1986



SECTION A-A

DRIVEPADS DETAIL SCALE 1" = 10'

PAVING SECTION

NOTE: THIS PLAN HAS BEEN REVISED IN ORDER TO ELIMINATE THE POND. DEVELOPMENT OF THE SITE WILL HAVE A MINIMUM IMPACT ON DOWNSTREAM CAPACITY. REFER TO HIGHLAND DETENTION BASIN STUDY SYSTEM #1 PROFILE PLATE III-2.

DATA

AREA OF THE SITE	25,000 SQ FT. 0.5739 AC.
SLOPE	3.04% SW TO NE
SOIL GROUP	B
TIME OF CONCENTRATION	10 MINUTES (MIN)
RAINFALL (PL. 22.2 D-1 DPM)	2.35 IN/6 HR.
INTENSITY I	$= (6.94)(R_6)/T^{0.51}$ = 4.97 IN/HR

EXISTING CONDITION

THE SITE HAS BEEN GRADED RECENTLY, UNDEVELOPED LAND

"C" FACTOR = 0.40 FOR NATURAL GROUND

DISCHARGE FROM THE SITE

Q(100) = CIA = (0.40)(4.97)(0.5739) = 1.4 CFS 1750 CF

Q(10) = 0.625 Q(100) = 0.71 CFS

EXISTING RUNOFF FLOW OVER SIDEWALK AT NORTHEAST CORNER OF PROPERTY AND DISCHARGES INTO SAN MATEO BLVD. AND WILL CONTINUE ITS PATH TOWARD NORTH

OFF-SITE FLOW

LOTS 5 AND 10 ARE CONTRIBUTING OFF-SITE FLOW TO THE SITE.

TOTAL AMOUNT OF OFF-SITE FLOW = (0.40)(4.97)(0.41) = 0.82 CFS

THE PARKING AREA ON THE SOUTHWEST SIDE OF PROPERTY IS BOUNDED BY A 4" HIGH BERM AND HAS A MILD SLOPE TO THE SOUTH.

PROPOSED SITE RUNOFF

THE SITE WILL BE PAVED ENTIRELY UNDER THIS PROPOSAL

"C" FACTOR = (0.95)(17830) + (0.30)(5170)/25,000 = 0.81

DISCHARGE FROM THE SITE

Q(100) = CIA = (0.81)(4.97)(0.5739) = 2.31 CFS 3966 CF

Q(10) = 0.625 Q(100) = 1.44 CFS

DISPOSAL

THIS SITE IS LOCATED AT THE VERY TOP OF HIGHLAND BASIN LIMIT. ACCORDING TO DATA AVAILABLE FOR HIGHLAND DETENTION FACILITY AT STATION 150+00 SAN MATEO BLVD AND ANDERSON AVE. (REFER TO HIGHLAND REPORT PLATE III-2) EXPECTED 100 YRS FLOOD WILL BE 410 CFS. INCREASE IN PEAK RUNOFF DUE TO THIS PROPOSAL WILL BE 1.87 CFS, WHICH IS AN INCREASE OF 0.33% WHICH IS NEGLIGIBLE. THE SITE IS NOT LOCATED IN A FLOOD ZONE AND IS AN infill PROJECT. THEREFORE THIS PROPOSAL SUGGESTS FREE DISCHARGE INTO EASTERN AVE.

LEGAL DESCRIPTION

LOTS 5, 6, 7 AND 8 BLOCK 32 RIDGECREST ADDITION

BENCHMARK INFORMATION

STA. NM 025 G-4 A 3¼" ALUMINUM TABLET SET IN CONCRETE PROJECTING 0.3' ABOVE THE ASPHALT PAVEMENT. LOCATED IN THE INTERSECTION OF GIBSON BLVD. AND SAN MATEO BLVD.

EROSION CONTROL STATEMENT

1. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC R.O.W. OR INTO PRIVATE PROPERTY. THIS CAN BE ACHIEVED BY CONSTRUCTING BERMS AT THE PROPERTY LINE AND WETTING THE SOIL TO KEEP IT FROM BLOWING.
2. THIS IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN A TOP SOIL DISTURBANCE PERMIT FROM ENVIRONMENTAL HEALTH DEPARTMENT.

LEGEND

5303	EXISTING CONTOUR
5305	PROPOSED CONTOUR
03.28 FL	EXISTING SPOT ELEVATION
03.45 TA	PROPOSED SPOT ELEVATION
TC	TOP OF CURB
TA	TOP OF ASPHALT
FL	FLOW LINE
	FLOW DIRECTION

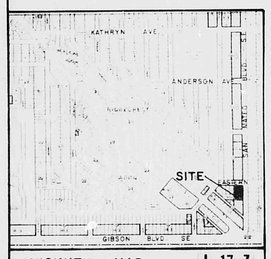
CONTOUR INTERVAL, ONE FOOT

PROPOSED SPOT ELEVATIONS AND CONTOURS ARE TO FINISH SURFACES. CONTRACTOR(S) SHALL BE RESPONSIBLE FOR DETERMINING APPROPRIATE GRADIENTS.

ALL THE MATERIAL AND WORK SHALL BE DONE ACCORDING TO CITY SPECIFICATION.

SEPTEMBER 25, 1986 REVISED OCTOBER 2 1986

HALL ENGINEERING COMPANY INC.
337 EUBANK N.E., SUITE 103
ALBUQUERQUE, NEW MEXICO 87123
Phones: (505) 292-1115 & 292-1116



VICINITY MAP L-17-Z

86-393

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# 28 DATE 3-21-02 OP EJR

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 (MS115-1977)

DIRECTOR

NOTARY PUBLIC

OFFICIAL SEAL
Rebecca Dillon
NOTARY PUBLIC
STATE OF NEW MEXICO
07/07/02

D 24 C 20 B 16 A 12

CITY OF ALBUQUERQUE C D