

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Roberts Oil-Maintenance ZONE ATLAS/DRNG. FILE #: K18/D-45
 DRB #: _____ EPC #: SAPAGE ADDITION WORK ORDER #: _____
 LEGAL DESCRIPTION: TRACT "A" BLOCK 8, FAIRGROUNDS ADDITION
 CITY ADDRESS: 6414 COCHITI ROAD SE
 ENGINEERING FIRM: LOVELADY & ASSOCIATES CONTACT: FRANK D. LOVELADY
 ADDRESS: 300 ALAMOSA NW PHONE: 345-2267
 OWNER: ROBERTS OIL CO. CONTACT: JEFF FOSS
 ADDRESS: 4808 JEFFERSON NE 87109 PHONE: 883-9100
 ARCHITECT: DURA-BILT PRODUCTS INC CONTACT: JEFF FOSS
 ADDRESS: 4808 JEFFERSON NE 87109 PHONE: 883-9100
 SURVEYOR: _____ CONTACT: _____
 ADDRESS: _____ PHONE: _____
 CONTRACTOR: DURA-BILT PRODUCTS INC CONTACT: JEFF FOSS
 ADDRESS: 4808 JEFFERSON NE 87109 PHONE: 883-9100

TYPE OF SUBMITTAL:

☐ DRAINAGE REPORT
☒ DRAINAGE PLAN
☐ CONCEPTUAL GRADING & DRAINAGE PLAN
☐ GRADING PLAN
☐ EROSION CONTROL PLAN
☐ ENGINEER'S CERTIFICATION
☐ OTHER _____

PRE-DESIGN MEETING:

☐ YES
☐ NO
☐ COPY PROVIDED

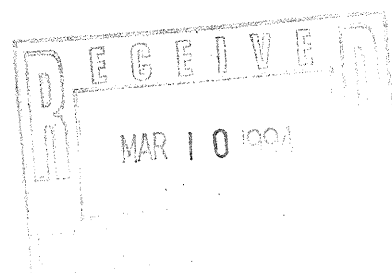
CHECK TYPE OF APPROVAL SOUGHT:

☐ SKETCH PLAT APPROVAL
☐ PRELIMINARY PLAT APPROVAL
☐ S. DEV. PLAN FOR SUB'D. APPROVAL
☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
☐ SECTOR PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☐ FOUNDATION PERMIT APPROVAL
☒ BUILDING PERMIT APPROVAL
☐ CERTIFICATE OF OCCUPANCY APPROVAL
☐ GRADING PERMIT APPROVAL
☐ PAVING PERMIT APPROVAL
☐ S.A.D. DRAINAGE REPORT
☐ DRAINAGE REQUIREMENTS
☐ OTHER _____ (SPECIFY)

DATE SUBMITTED:

March 9, 1994

BY:

Frank D. Lovelady



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 17, 1994

Frank Lovelady
Lovelady & Associates
300 Alamosa NW
Albuquerque, NM 87107

RE: REVISED DRAINAGE PLAN FOR AN ADDITION TO ROBERT'S OIL -MAINTENANCE
GARAGE (K18-D45) REVISION DATED 3/9/94.

Dear Mr. Lovelady:

Based on the information provided on your March 10, 1994 resubmittal, the
above referenced site is approved for Building Permit.

Please attach a copy of this approved plan to the construction sets prior to
sign-off by Hydrology.

If I can be of further assistance, please feel free to contact me at 768-2667.

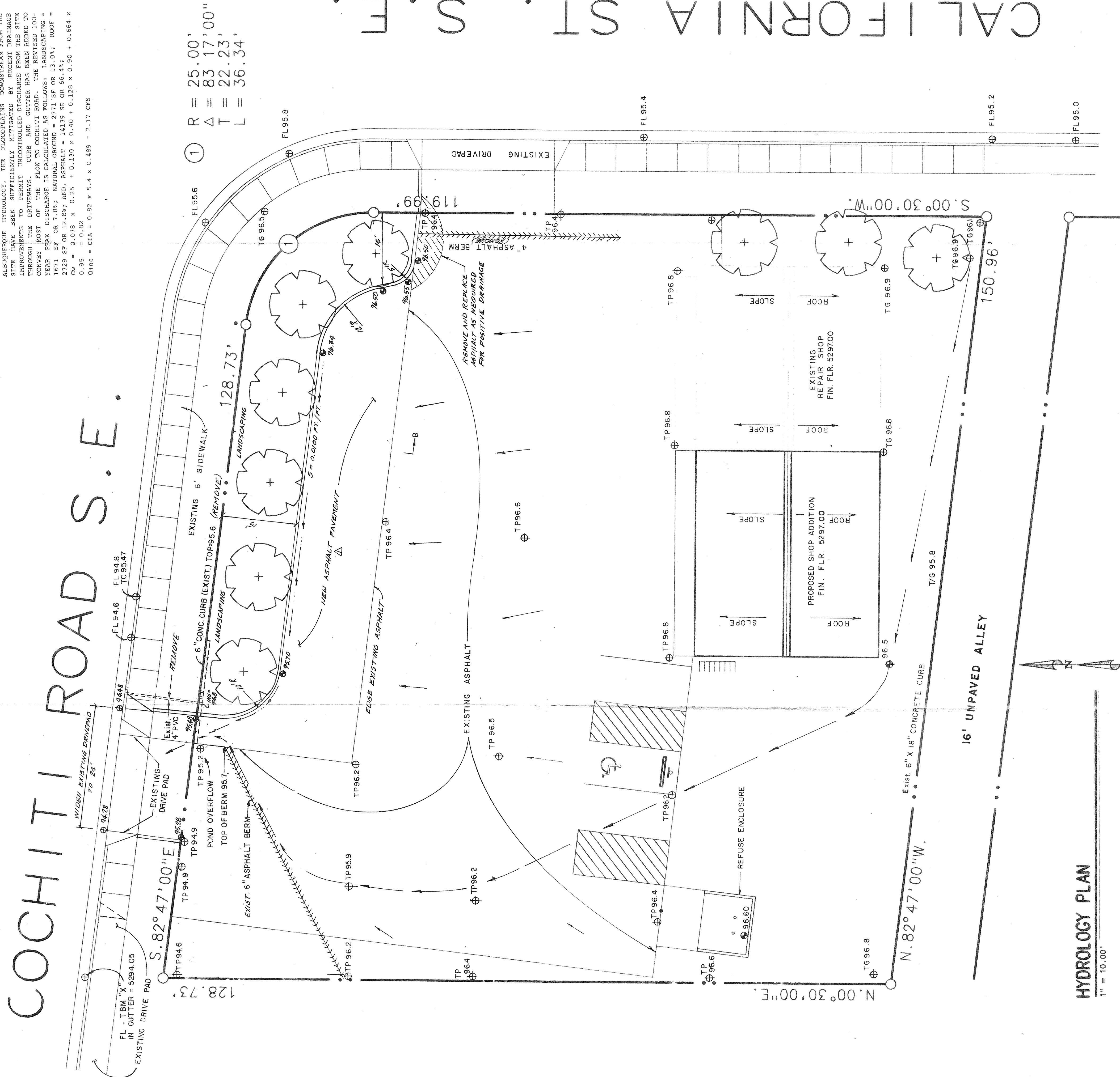
Sincerely,

Bernie J. Montoya, CE
Engineering Associate

BJM/d1/WPHYD/8391

c: Andrew Garcia
File

PER TELEPHONE CONVERSATION WITH BERNIE MONTVOYA OF CITY OF
DOWNSTREAM FROM THE SITE. THE FLOODPLAIN, THE ALBUQUERQUE
ALBUQUERQUE HYDROLOGY, THE FLOODPLAIN, THE ALBUQUERQUE
SITTE HAVE BEEN SUFFICIENTLY MITIGATED BY REVISIONS FROM THE
IMPROVEMENTS TO THE FLOODPLAIN, THE ALBUQUERQUE
CONVEYANCE. CUBA AND GUTTER HAS BEEN ADDED TO
CONVEY MOST OF THE FLOW TO COCHITI ROAD. THE REVISED 100-
YEAR PEAK DISCHARGE IS CALCULATED AS FOLLOWS: LANDSCAPING =
12751 SF OR 7.8%; NATURAL GROUND = 2771 SF OR 1.7%;
2759 SF OR 1.7%; AND, ASPHALT = 444 SF OR 0.4%; NOOK =
0.0% = 0.82
Q₁₀₀ = 0.25 x 0.25 x 0.110 x 0.40 x 0.128 x 0.30 + 0.664 x
Q₁₀₀ = 0.82 x 5.4 x 0.489 = 2.17 CFS



1" = 10.00'

FLOODWAY MAP PANEL 30

VICINITY MAP
K-18

S.O. 13

NOTICE TO CONTRACTOR:

1. An excavation/ construction permit will be required before beginning any work within City Right-of-Way. An approved copy of these plans must be submitted at the time of application for this permit.
2. All work detailed on these plans to be performed, except as otherwise stated or provided herein, shall be constructed in accordance with the City of Albuquerque Interim Standard Specifications for Public Works Construction, 1986, as revised.
3. Two working days prior to any excavation, contractor must contact New Mexico One Call System, 240-1990, for location of existing utilities.
4. Prior to construction, the contractor shall excavate and verify the horizontal and vertical locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
5. Backfill compaction shall be according to arterial street use.
6. Maintenance of these facilities will be the responsibility of the Owner of the property served.
7. The address of this site is 6230 Condit Road, S.E.

APPROVALS:	NAME	DATE
HYDROLOGY		
INSPECTOR		
ASST FIELD		

EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING:
NO SEDIMENT-BEARING WATER SHALL BE ALLOWED TO DISCHARGE INTO THE SITE DURING CONSTRUCTION.
2. DURING GRADING OPERATIONS AND UNTIL THE PROJECT HAS BEEN COMPLETED, ALL ADJACENT PROPERTY, RIGHTS-OF-WAY, AND EASEMENTS SHALL BE PROTECTED FROM FLOODING.
3. ANY AND ALL SEDIMENT ORIGINATING ON THE SITE WHICH IS DISCHARGED WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PROMPTLY AND COMPLETELY REMOVED BY THE CONTRACTOR.
4. CONTROL OF SEDIMENT-LADEN FLOOD WATERS BEING ACCOMPISHED BY THE USE OF A COMPLETED EARTH BERM AT LEAST 12" HIGH. BERM SHALL BE LOCATED ALONG THE DOWNSTREAM PERIMETERS OF THE PROPERTY.

LEGEND:

	PROPERTY LINE
	EXISTING SPOT ELEVATION
	NEW SPOT ELEVATION
	FLOW DIRECTION
	TOP OF CURB
	FLOW LINE
	TOP OF GRADE

USE SAME CRITERIA AS K-10(D)-45 APPROVED 11-3-87.	
Site Data:	Total Area = 21,300 SF = 0.48 AC
Soil Type: "B"	
Existing:	
Landscape	= 3,222 Yd 0.25 = 808
Natural Ground	= 4,776 Yd 0.40 = 1,910
Roof	= 1,674 Yd 0.90 = 1,507
Asphalt	= 11,683 Yd 0.95 = 11,047
	21,300 15,772
Percent Impervious = 63% CM = 80 100% = 68% = 2.35°	
Direct Runoff = 0.75°	
V = (0.75 / 12) (21,310 + 1,332 CF	
100	
I = 2.35 X 2.3 = 5.4 IN C = 1572 / 2310 = 0.72	
Q = C/A = 0.72 / 5.4 = 0.489 = 1.90 CFS	
100	
Pond Size = 90 X 27 0.4 = 927 CF	
Overflow = 1332 - 972 = 360 CF	
Developed:	
Landscape	= 3,222 Yd 0.25 = 808
Natural Ground	= 4,776 Yd 0.40 = 1,910
Roof	= 1,674 Yd 0.90 = 1,507
Asphalt	= 12,578 Yd 0.95 = 11,649
	21,310 16,321
Percent Impervious = (15037 / 2310) (100 = 72)	
CM = 85 Direct Runoff = 1.10°	
V = (1.10 / 12) = 21,310 + 1,959 CF	
100	
I = 2.35 X 2.3 = 5.4 C = 1623 / 2310 = 0.77	
Q = C/A = 0.77 / 5.4 X 0.489 = 2.03 CFS	
100	
Runoff Diagram:	
Allowable discharge = 0.5 cfs	
Actual Pond:	
Increase depth from 0.4' to 0.5'. However, inverts of pond positive discharge to remain the same.	
V = 90 X 27 X 0.5 = 1215 CF = 1105 CF	
The 0.1' depth remaining in the bottom of the pond which will quickly infiltrate.	
Pond Positive Discharge:	
Use #4 PVC pipe through curb. Invert = 94.8	
Overflow = 95.8 - 94.8 = 1.0' = 0.17 = 0.23°	
1/2	
Use orifice Equation Q = CA(2gh) ^{1/2}	
A = (4 X π (14) / 4) = 0.873 SF C = 0.6	
1/2	
Q = 0.6 X 0.873 (2 X 32.2 X 0.23) = 0.2 CFS	
Use 3" dia. orifice plate on third 4" PVC pipe	
2	
H = 0.23' X (3' / 14) / (4 X 144) = 0.0491 SF	
1/2	
Q = 0.6 X 0.0491 (2 X 32.2 X 0.23) = 0.11 CFS	
Use 2 each 4" PVC pipes with full diameter inlets and one each 4" PVC pipe with a 3" dia. orifice	
plate. Q = 0.20 + 0.11 = 0.31 CFS which is sufficiently close to the allowable discharge of 0.5 cfs	

LEGAL DESCRIPTION:
Tract "A", Block 8, Fairgrounds Addition, Albuquerque, New Mexico.

BENCH MARK:
A.C.S. Station 5-K18B, Elevation = 5290.38 Feet.

JOB NO : 94-109 CF 4

HYDROLOGY PLAN

ON THIS

JOB NO : 94-109 CF 4

MAINTENANCE GARAGE
ADDITION
FOR
ROBERTS OIL CO.
6414 COCHITI ROAD S. E.
ALBUQUERQUE, NEW MEXICO

REVISED 3/9/94



DURA BILT
PRODUCTS, INC.
4808 JEFFERSON N.E.
ALBUQUERQUE N.M. 87109
(505) 883-9100
DESIGN/BUILDERS
LICENSE NO. 30444

REVISIONS:

1	REMOVED POND - ADDED CURB AND ASPHALT
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MAINTENANCE GARAGE
ADDITION
FOR
ROBERTS OIL CO.
6414 COCHITI ROAD S. E.
ALBUQUERQUE, NEW MEXICO 87108