PLANS/PLATS ON FILE

FILE DESC: D-19 / D012

PLANS/PLATS 1

Address 8215 Palomas Ave N.E. Engr/Arch Tom Mann

Plans Approved 5-14-82 Cond.

Comments: D19-D12

Inspection Requested 1-19-83 Contractor

Appr. 2/10/83 Disappr. 30 Day Temp.

Comments: Need special order 19 signed off by Bill Kearny's office otherwise the rest is approved

Special order 19 approved by Bill Kearny's office on 2/16/83

Reinspection and/or comments:

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

HYDROLOGY SECTION PROJ. NO. D-11 DATE: Jan 13, 82

PLANNING DIVISION NO. _____

CONFERENCE RECAP

SUBJECT: Dalomas Healthy Care Center
Lomas Del Norte ~~Tract~~ & Unit 9 Tracks X-3

	WHO	REPRESENTING
ATTENDANCE:	Chuck Easterling	City
	Jim Finch	City
	Jeff Mortensen	Tom Manni

RECEIVED JAN 25 1982 ENGINEERING

FINDINGS: (1) City plans to Rip Rap South Bank of Domingo Baca to the 100 year Flood elevation with No free board
(2) Development of Track can not encroach on flood plan without channel treatment
(3) if Channel Treatment raises the 100 year water surface elevation, Developer must also treat South ~~of~~ Bank in addition to item #1
(4) Q5 Discharge from developed site, may free discharge alone ~~with~~ completion of entire Domingo Baca Channel

The undersigned agrees that the above findings are summarized accurately and are only subject to change if further investigation reveals that they are not reasonable or that they are based on inaccurate information.

SIGNED: Jim Finch SIGNED: Jeffrey G. Mortensen

TITLE: CE/Hyd TITLE: Project Engineer

DATE: Jan 13/1982 DATE: 1/13/82

XC: Tom Drerup 1/15/82

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DRAINAGE REPORT INFORMATION SHEET

PROJECT TITLE: PALOMAS HEALTH CARE CENTER

ZONE ATLAS PAGE NO. D-19 CITY ADDRESS: PALOMAS AVE.

LEGAL ADDRESS: TRACT X-3, LOMA DEL NORTE UNIT 9

ENGINEERING FIRM: TOM MANN & ASSOC. CONTACT: J. MORTENSEN

ADDRESS: 811 DALLAS NE PHONE: 265-5611

OWNER: ? CONTACT:

ADDRESS: PHONE:

ARCHITECT ~~ENGINEER~~: TOM DREERUP CONTACT: TOM DREERUP

ADDRESS: 4500 MOBILE DRIVE COLUMBUS OHIO PHONE: 614-451-6110

DATE SUBMITTED: 1/22/82

BY: JEFF MORTENSEN

RECEIVED
JAN 25 1982
ENGINEERING

MUNICIPAL DEVELOPMENT DEPARTMENT

Richard S. Heller, P.E., City Engineer — ENGINEERING DIVISION — Telephone (505) 766-7467

Tom Mann Associates, Inc.
Engineers
811 DALLAS, N.E. • ALBUQUERQUE • NEW MEXICO • 87110 • 505-265-5611

20011
January 22, 1982

D19-D12

RECEIVED
JAN 25 1982
ENGINEERING

Mr. Jim Fink
Civil Engineer/Hydrology
City of Albuquerque
P. O. Box 1293
Albuquerque, New Mexico 87103

Re: Palomas Health Care Center
Drainage Plan

Dear Jim:

Transmitted herewith for your review are the following items:

1. Two (2) prints of the subject drainage plan
2. Supplemental hydrologic and hydraulic calculations
3. A copy of the pre-design conference recap
4. A completed Drainage Plan Information Sheet

If you have any questions or comments concerning this submittal, do not hesitate to call.

Sincerely,

TOM MANN & ASSOCIATES, INC.

Jeffrey G. Mortensen
Project Engineer

JGM:bb
Encs.
xc: Tom Drerup

PROJECT: PALOMAS HEALTH CARE CENTER
PROJECT NO.: 20011

DRAINAGE BASIN: SITE
CONDITION: EXISTING

LAND-USE DESCRIPTION:

DESCRIPTION	SOIL GROUP	AREA (ac)	Cn	% OF TOTAL
NATIVE GRASS	B	4.01	79	100 %
	COMPOSITE:	4.01	79	100 %

WATERSHED CHARACTERISTICS:

FLOW TYPE: GULLIED
LENGTH: 600 ft.
DROP: 22 ft.
SLOPE: 3.6 %
TIME OF CONCENTRATION: 0.06 hr.

STORM CHARACTERISTICS:

FREQUENCY: 100 yr.; 6 hr.
RAINFALL: 2.5 in.
RUNOFF: 0.84 in.
DISTRIBUTION CURVE: 75
DISCHARGE: 1.55 cfs/ac/in
PEAK DISCHARGE (Q): 5.2 c.f.s.

VOLUME: 12,100 c.f. 0.28ac.ft.

FREQUENCY: ~~10~~ 5 yr.; 6 hr.
RAINFALL: 1.4 in.
RUNOFF: 0.21 in.
DISTRIBUTION CURVE: 75
DISCHARGE: 1.55 cfs/ac/in
PEAK DISCHARGE (Q): 1.3 c.f.s.

VOLUME: 3,100 c.f. 0.07ac.ft.

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PROJECT: PALOMAS HEALTH CARE CENTER
PROJECT NO.: 20011

DRAINAGE BASIN: OFFSITE
CONDITION: EXISTING

LAND-USE DESCRIPTION:

DESCRIPTION	SOIL GROUP	AREA (ac)	Cn	% OF TOTAL
NATIVE GRASS	B	6.40	79	100 %
	COMPOSITE:	6.40	79	100 %

WATERSHED CHARACTERISTICS:

FLOW TYPE: GULLIED
LENGTH: 850 ft.
DROP: 27 ft.
SLOPE: 3.1 %
TIME OF CONCENTRATION: 0.09 hr.

STORM CHARACTERISTICS:

FREQUENCY: 100 yr.; 6 hr.
RAINFALL: 2.5 in.
RUNOFF: 0.84 in.
DISTRIBUTION CURVE: 75
DISCHARGE: 1.55 cfs/ac/in
PEAK DISCHARGE (Q): 8.3 c.f.s.

VOLUME: 19,400 c.f. 0.45ac.ft.

FREQUENCY: ~~10~~ 5 yr.; 6 hr.
RAINFALL: 1.4 in.
RUNOFF: 0.21 in.
DISTRIBUTION CURVE: 75
DISCHARGE: 1.55 cfs/ac/in
PEAK DISCHARGE (Q): 2.1 c.f.s.

VOLUME: 4,900 c.f. 0.11ac.ft.

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PROJECT: PALOMAS HEALTH CARE CENTER
PROJECT NO.: 20011

DRAINAGE BASIN RUNOFF SUMMARY
CONDITION: EXISTING

DESCRIPTION	AREA (ac)	Q-100 (cfs)	V-100 (cf.)	Q-~~10~~ 5 (cfs)	V-~~10~~ 5 (cf.)
SITE	4.01	5.2	12,100	1.3	3,100
OFFSITE	6.40	8.3	19,400	2.1	4,900

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ENGINEERING

PROJECT: PALOMAS HEALTH CARE CENTER
PROJECT NO.: 20011

DRAINAGE BASIN: COURTYARD
CONDITION: DEVELOPED

LAND-USE DESCRIPTION:

DESCRIPTION	SOIL GROUP	AREA (ac)	Cn	% OF TOTAL
IMPERVIOUS AREA		0.25	95	100 %
	COMPOSITE:	0.25	95	100 %

WATERSHED CHARACTERISTICS:

FLOW TYPE: GULLIED
LENGTH: 85 ft.
DROP: 1 ft.
SLOPE: 0.5 %
TIME OF CONCENTRATION: 0.03 hr.

STORM CHARACTERISTICS:

FREQUENCY: 100 yr., 6 hr.
RAINFALL: 2.5 in.
RUNOFF: 2.0 in.
DISTRIBUTION CURVE:75
DISCHARGE: 1.55 cfs/ac/in
PEAK DISCHARGE (Q): 0.7 c.f.s.

VOLUME: 1,700 c.f. 0.04 ac.ft.

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JAN 25 1982
ENGINEERING

PROJECT: PALOMAS HEALTH CARE CENTER
PROJECT NO.: 20011

DRAINAGE BASIN: FRONTYARD
CONDITION: DEVELOPED

LAND-USE DESCRIPTION:

DESCRIPTION	SOIL GROUP	AREA (ac)	Cn	% OF TOTAL
LANDSCAPING	B	1.00	70	79 %
IMPERVIOUS AREA		0.26	95	21 %
	COMPOSITE:	1.26	75	100 %

WATERSHED CHARACTERISTICS:

FLOW TYPE: GULLIED
LENGTH: 380 ft.
DROP: 4 ft.
SLOPE: 0.9 %
TIME OF CONCENTRATION: 0.08 hr.

STORM CHARACTERISTICS:

FREQUENCY: 100 yr., 6 hr.
RAINFALL: 2.5 in.
RUNOFF: 0.7 in.
DISTRIBUTION CURVE:75
DISCHARGE: 1.55 cfs/ac/in
PEAK DISCHARGE (Q): 1.2 c.f.s.

VOLUME: 3,000 c.f. 0.07 ac.ft.

RECEIVED
JAN 25 1982
ENGINEERING

PROJECT: PALOMAS HEALTH CARE CENTER
PROJECT NO.: 20011

DRAINAGE BASIN: PARKING LOT & REAR YARD
CONDITION: DEVELOPED

LAND-USE DESCRIPTION:

DESCRIPTION	SOIL GROUP	AREA (ac)	Cn	% OF TOTAL
LANDSCAPING	B	1.30	70	52 %
IMPERVIOUS AREA		1.20	95	48 %
	COMPOSITE:	2.50	82	100 %

WATERSHED CHARACTERISTICS:

FLOW TYPE: GULLIED
LENGTH: 700 ft.
DROP: 10 ft.
SLOPE: 1.4 %
TIME OF CONCENTRATION: 0.10 hr.

STORM CHARACTERISTICS:

FREQUENCY: 100 yr., 6 hr.
RAINFALL: 2.5 in.
RUNOFF: 1.0 in.
DISTRIBUTION CURVE:75
DISCHARGE: 1.55 cfs/ac/in
PEAK DISCHARGE (Q): 3.8 c.f.s.

VOLUME: 9,000 c.f. 0.21 ac.ft.

RECEIVED
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ENGINEERING

PROJECT: PALOMAS HEALTH CARE CENTER
PROJECT NO.: 20011

DRAINAGE BASIN RUNOFF SUMMARY
CONDITION: DEVELOPED

DESCRIPTION	AREA (ac)	Q-100 (cfs)	V-100 (cf.)	Q-10 (cfs)	V-10 (cf.)
COURTYARD	0.25	0.7	1,700	0.0	0
FRONTYARD	1.26	1.2	3,000	0.0	0
PARKING LOT & REAR YARD	2.50	3.8	9,000	0.0	0

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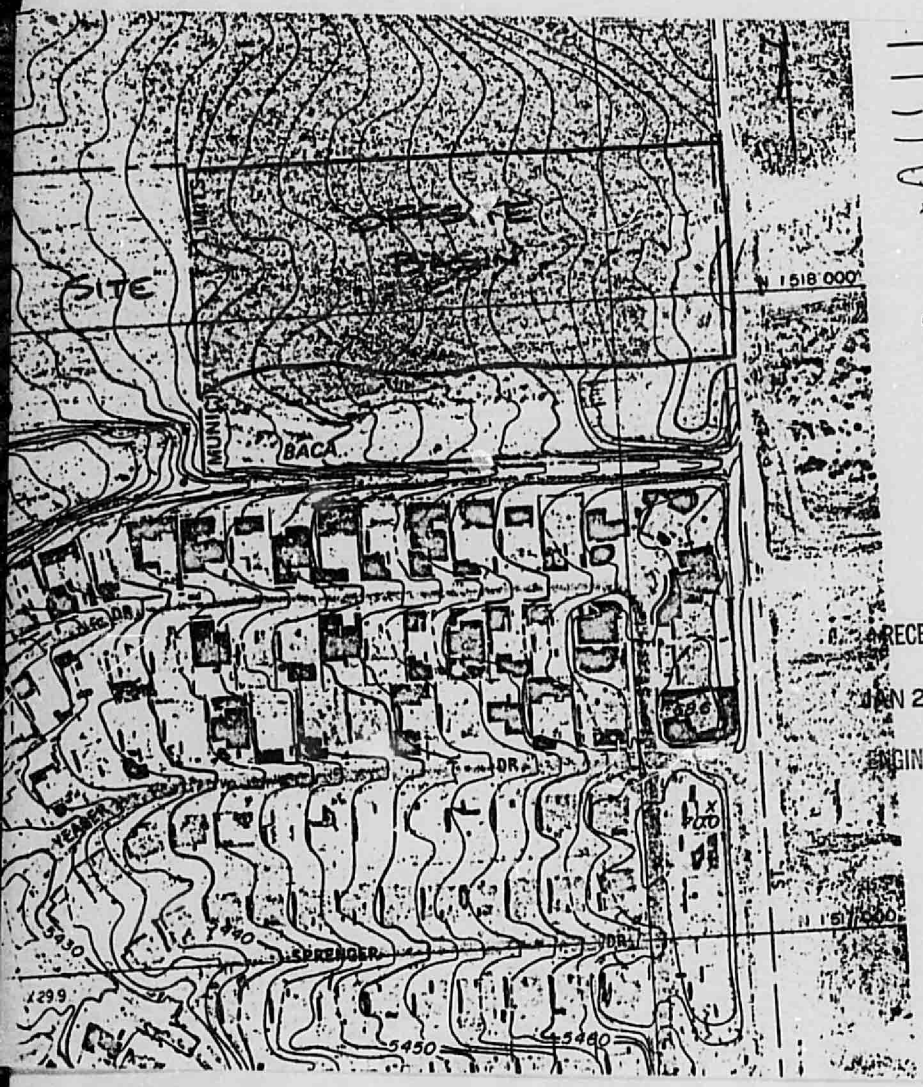

Municipie Boundary
Grant Line
5230 Index Contour
Intermediate Contour
Depression Contour
x 23.6 Spot Elevation

OFFSITE BASIN:

AREA = 800' x 350'
= 6.4 Ac ±

L = 850'
Δelev = 5472 - 5445 = 27'

RECEIVED
JAN 25 1982
ENGINEERING

MAP D-19
1" = 200'

PALOMAS HEALTH CARE CENTER — 2001-1

EXISTING ARROYO ANALYSIS — 1/18/82

STA	TRIAL #	X-S AREA	SLOPE	n	P	$R = \frac{A}{P}$	$R^{2/3}$	$Q = \frac{1.49}{n} A R^{2/3} S^{1/2}$
103+00	1	520	0.0320	0.035	110	4.727	2.83	11,200 cfs
	2	130	0.0320		34	3.8235	2.456	2430 cfs
	3	110	0.0320	?	32	3.4375	2.2871	1900 cfs
								V = 17.27 ft/sec
	WSL	≃	3'		(ELEV =		5436.5')	
102+00	1	130	0.0360		145	0.8966	0.9294	976 cfs
	2	245	0.0360		148	1.6554	1.4017	2770 cfs
	3	180	0.0360		146	1.2329	1.1506	1670 cfs
	4	205	0.0360		147	1.4150	1.2618	2100 cfs
								V = 10.10 ft/sec
	WSL	≃	2.5'		(ELEV =		5432.75)	
101+00	1	180	0.0350		95	1.8957	1.5345	2200 cfs
	2	134	0.0350		85	1.5765	1.3566	1450 cfs
	3	156	0.0350		90	1.7333	1.4456	1500 cfs
								V = 11.52 ft/sec
	WSL	≃	2.3'		(ELEV. =		5428.6)	
100+00	1	170	0.0320		84	1.3095	1.1980	1000 cfs
	2	150	0.0320		88	1.7045	1.4295	1670 cfs
	3	170	0.0320		90	1.8889	1.5313	1950 cfs
								V = 11.65 ft/sec
	WSL	≃	2.5'		(ELEV =		5426.0)	
				0.035				

RECEIVED JAN 25 1982 ENGINEERING

PALOMAS HEALTH CARE CENTER — 2001-1

EXISTING ARROYO ANALYSIS — 1/18/82

STA	TRIAL #	X-S AREA	SLOPE	n	P	$R = \frac{A}{P}$	$R^{2/3}$	$Q = \frac{1.49}{n} A R^{2/3} S^{1/2}$
99+00	1	144	0.0320	0.035	97	1.4845	1.3031	1430 cfs
	2	170	0.0320	0.035	98	1.6837	1.4177	1830 cfs.
								V = 10.76 ft/sec
	WSL	≃	2.5'		(ELEV	=	5422	.8')

RECEIVED
JAN 25 1982
ENGINEERING

Tom Mann Associates, Inc.
Engineers
811 DALLAS, N.E. • ALBUQUERQUE • NEW MEXICO • 87110 • 505-265-5611

20012
April 28, 1982

Mr. Jim Fink
Engineering Division
City of Albuquerque
P. O. Box 1293
Albuquerque, New Mexico 87103

Re: Palomas Health Care Center
Drainage Plan

Dear Jim:

Transmitted herewith for your review are two (2) prints of the revised plan for the subject project. Hopefully, I have addressed all of your previous comments concerning the discharge from the site to the arroyo.

If you have any questions or comments concerning this information, do not hesitate to call. Your prompt attention to the review of this revised plan will be greatly appreciated.

Sincerely,

TOM MANN & ASSOCIATES, INC.

Jeffrey G. Mortensen
Project Engineer

JGM:bb
Encs. (2)
xc: Donald F. Fletcher, A.I.A. w/encs. (3)
The Burns/Peters Group

Jim Leymon
MSM Consultants, Inc. w/enc. (1)

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City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

D19 - D12

May 14, 1982

Mr. Jeff Mortenson
Tom Mann & Associates
811 Dallas N.E.
Albuquerque, N.M. 87110

RE: PALOMAS HEALTH CARE CENTER DRAINAGE REPORT

Dear Mr. Mortenson:

The above referenced report is approved based on your amended submittal of April 28, 1982.

If I can be of any further help, please call.

Sincerely,

Jim Fink
Civil Engineer/Hydrology

JF/tsl

Tom Mann Associates, Inc.
Engineers
811 DALLAS, N.E. • ALBUQUERQUE • NEW MEXICO • 87110 • 505-2[illegible]611

20013
June 21, 1982

D-19-D12

RECEIVED
JUN 23 1982
CITY ENGINEER

Mr. Robert Kielich
Assistant City Engineer/Design
City of Albuquerque
P. O. Box 1293
Albuquerque, New Mexico 87103

Re: Palomas Health Care Center
Drainage Rundown Construction

Dear Bob:

Transmitted herewith for your review and approval are three (3) copies plus the original for the subject project. It was requested by Mr. Fred Aguirre that I submit these to you.

If you have any questions or comments concerning this information, do not hesitate to call.

Sincerely,

TOM MANN & ASSOCIATES, INC.

Jeffrey G. Mortensen
Project Engineer

JGM:bb
Encs.
xc: ✓Fred Aguirre w/o enc.
Don Fletcher

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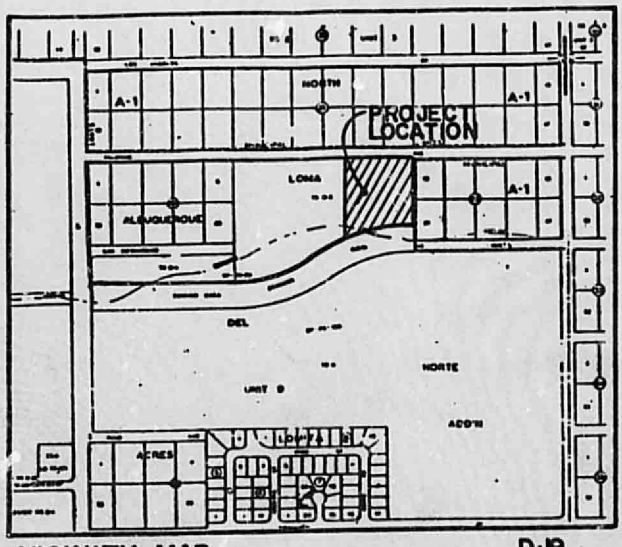
CITY OF ALBUQUERQUE

DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY



VICINITY MAP
SCALE: 1" = 800'

D-19

JOB No. 2001-3

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 hereon, shall be constructed in accordance with "Contract Documents for City-Wide Utilities and Cash Paving No. 30 "
3. Two working days prior to any excavation, contractor must contact Line Locating Service, 765-1234, 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 N/A street use.

APPROVALS	NAME	DATE
A.C.E./DESIGN	J. Kilich	2-25-83
INSPECTOR	[illegible]	2-15-83
	[illegible]	2-16-83

TITLE: PALOMAS HEALTH CARE CENTER
DRAINAGE RUNDOWN CONSTRUCTION
8215 PALOMAS AVE. N.E.

PERMIT NO. SHEET 1 OF 3 MAP NO. D-1

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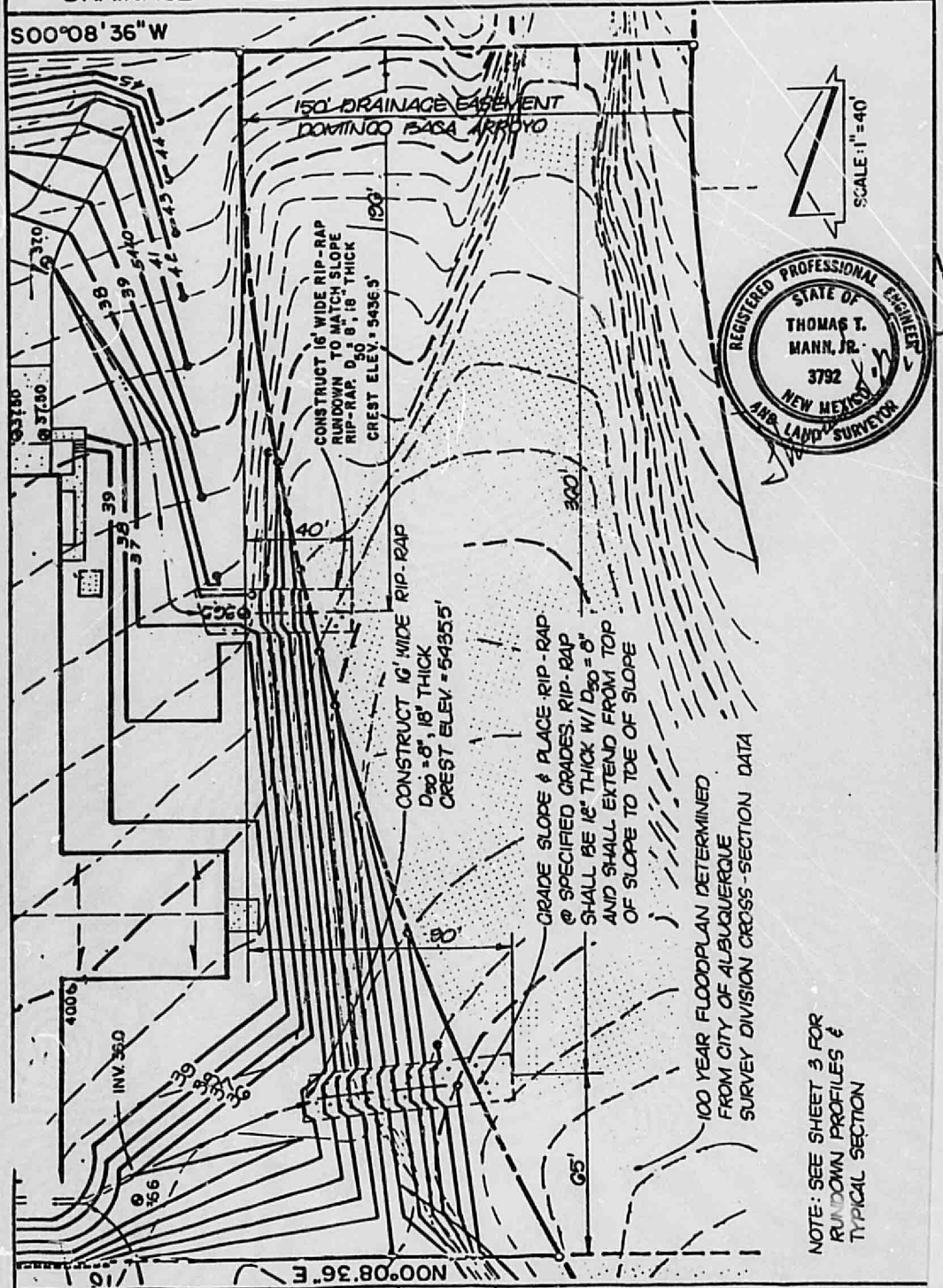
CITY OF ALBUQUERQUE

DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY



APPROVALS	NAME	DATE
A.C.E./DESIGN	[illegible]	22 June 82
INSPECTOR	[illegible]	2-15-83
A.C.E./FIELD		

TITLE: PALOMAS HEALTH CARE CENTER
DRAINAGE RUNDOWN CONSTRUCTION
8215 PALOMAS AVE. N.E.

PERMIT NO.
SHEET 2 OF 3

MAP NO. D-19

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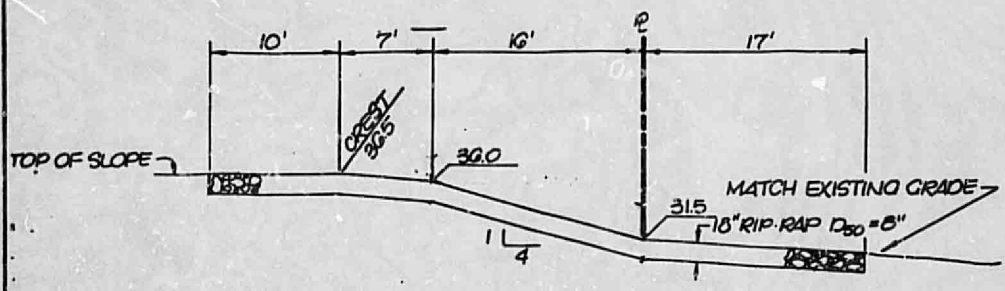
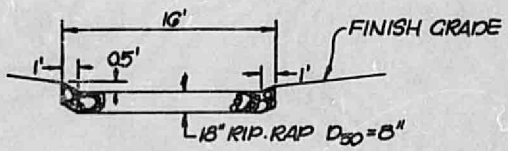
CITY OF ALBUQUERQUE

DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY



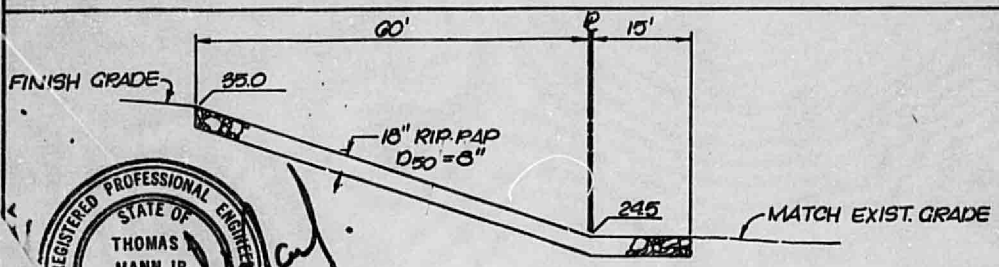
PROFILE EAST RUNDOWN

SCALE: 1" = 10'



TYPICAL RUNDOWN SECTION

SCALE: 1" = 10'



REGISTERED PROFESSIONAL ENGINEER
STATE OF
THOMAS
MANN, JR.
3792
NEW MEXICO
LAND SURVEYOR

PROFILE WEST RUNDOWN

HORIZ SCALE: 1" = 20' VERT. SCALE: 1" = 10'

APPROVALS	NAME	DATE	TITLE: PALOMAS HEALTH CARE CENTER DRAINAGE RUNDOWN CONSTRUCTION 8215 PALOMAS AVE., N.E.	
A.C.E./DESIGN	[illegible]	22 Jun 83		
INSPECTOR	[illegible]	2-15-93	PERMIT NO. SHEET 3 OF 3	MAP NO. D-19
A.C.E./FIELD				

PLAN/PLATS

ON

FILE