

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN HYDROLOGY SECTION 123 Central NW, Albuquerque, NM 87102 (505) 766-7644

May 16, 1986

Tom Mann Tom Mann & Associates, Inc. 811 Dallas, NE Albuquerque, New Mexico 87110

RE: CERTIFICATION FOR PHASE I & II ELDORADO PLACE APARTMENT COMPLEX (G-22/D18) ENGINEER'S STAMP DATED MAY 1, 1986

Dear Tom:

Based on the information provided on your resubmittal of May 9, 1986, certification for the above referenced drainage plan is acceptable.

Please advise your client that they will need to contact Rick Duran, Hydrology Inspector, to make arrangements for release of the Certificate of Occupancy.

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

Cordially,

Bernie J. Montoya, C.E. Engineering Assistant

Bernie J. Montago

cc: Rick Duran

BJM/bsj

MUNICIPAL DEVELOPMENT DEPARTMENT

Cala ayng Shappard, P.E., Cliv Enginger

ENGINEERING DIVISION

Telephone (505) 766-7467

DRB Case No. 85-139
DRC Project No. _____
Date Submitted 12/04/85

EXHIBIT "D" to Subdivision Improvements Agreement

D.R.B. REQUIRED INFRASTRUCTURE LISTING for Umbrage Country Acres

Following is a summary of Public/Private Infrastructure required to be constructed or financially guaranteed to be constructed for the above development.

Size	*Type Improvement	Location	From	<u>To</u>
24'	Gravel Road	Zartman Lane	Lagunitas Rd	Barr Drain
24'	Gravel Road	Swoose Lane	Zartman Lane	350' North
24'	Gravel Road	Cacahuate Lane	Zartman Lane	400' North
24'	Gravel Road	Zartman Lane	Zartman Lane	750' South
12"	Pipe RCP	Swoose Lane	at Zartman In.	
12"	Pipe RCP	Cambridge Lane	at Zartman Ln	
12"	Pipe RCP 49	Cambridge Lane	450' South of	Zartman Lane

DEC 18 1985

HYDROLOGY SECTION

Page 1 of

Prepared by: Steven K. Schroll

Date WRD -/17/85

DRB Chairman

Date

Rev. 8/85 (ID2602E)

Development Review Board Member Approvals

15'-

60'

RO.W.

Typical Channel section

1"=10"

Manning Equation: Q= 1.49 AR 2/35/2

n=0.040 5=0.006 Q= 110 cfs (AMDS)

d = 1.5' A = 30.155f P = 18.0 R = 1.67'

V=Q= 110 = 3.6 fps OK A 30.15 = OK

42.381 50 SHEETS 5 S 42.382 100 SHEETS 5 S 42.389 200 SHEETS 5 S



City of Allinguerge

P.O. BOX 1293 ALBUQUEROUE, NEW MEXICO 87103

MAYOR

CHIEF ADMINISTRATIVE OFFICER

DEPUTY CAO

an administration of the property of the contraction of the contractio

KEN SCHULTZ GENE ROMO

FRANK MARTINEZ

PILL MUELLER

May 29, 1986

Eldorado Apartment G22-D18

Mr. Bob Hasaka E.C.G. Commercial Construction c/o Bradbury & Stamm 1217 First St. NW Albuquerque, NM 87107

CERTIFICATE OF COMPLETION AND ACCEPTANCE - CITY PROJECT NO. 2387

Dear Mr. Hasaka:

This is to certify that the City of Albuquerque accepts Project No. 2387 as being completed according to approved plans and construction specifications and accepts for continuous maintenance all public infrastructure improvements constructed as part of Project No. 2387.

The project is described as follows:

- Infrastructure improvements for Tract MPE, Eldorado Addition (Eldorado Place Apartments) Map G-22.
- Sanitary sewer line extension and appurtenances from main line at centerline of Montgomery Boulevard N.E. at west boundary of tract or 994 feet west of Jamaica Drive N.E., southeasterly 80 feet to manhole: In Embudito Arroyo along west boundary from manhole No. 47 at approximately south boundary of tract, south 308 feet.
- Water line extension and appurtenances from main line on north side 0 of Montgomery Boulevard N.E. and 463 feet west of Jamaica Drive N.E. south 88 feet to south right-of-way of Montgomery Boulevard N.E.
- Median and paving improvements for left turn bay on westbound 0 Montgomery Boulevard N.E., 300 feet west of Jamaica Drive N.E.
- Storm sewer line extension from southeast corner of tract, south 52 О feet to grouted rip-rap section within Embudito Arroyo Channel.

AN EQUAL OPPORTUNITY EMPLOYER

LETTER OF ACCEPTANCE CITY ELDORADO APARTMENTS Page 2

2<u>9</u>,

JNH/mr

Zames N. Micks, Jr.
Principal Engineer Design Division
Public Works Department

cc: J.R. Hale Contracting Co., Inc.

Tom Mann & Associates

Bill McNamara, Construction Division, Engineering Group, PWD Jim Gill, Director, Public Works Department
Jim Olsen, Water Systems, Operations Group, PWD
Sam Cummins, Water Systems, Operations Group, PWD
Dran Wall, Liquid Waste Systems, Operation Group, PWD
Walter Nickerson, Utility Development Group, PWD
Dave Parks, Transportation Design, Engineering Group, PWD
Gene Leyndecker, Utilities, Engineering Group, PWD
Josie Gutierrez, New Meter Sales Clerk, Finance Group, PWD
Claudia Gallegos, Standby Charges Clerk, Finance Group, PWD
Della Gallegos, Design Review, Engineering Group, PWD
Fred Gomez, Maps & Records Supervisor, Engineering Group, PWD
File

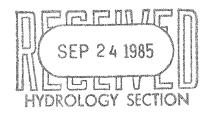
11,FORHATION	
PROJECT TITLE Eldorado Place	TYPE OF SUBMITTAL Drainage Report
ZONE ATLAS PAGE NO. 6-22 CITY ADDRESS	11,800 Montgomery Blud NE
•	Lot 3, Guiferrez Tract (unplathed)
ENGINEERING FIRM Tom Wann & Assoc	
ADDRESS BII Dallas NE	
OWNER CDS Development Co.	CONTACT Rundy Jackson
ADDRESS 2850 GH Ave Suite 119 S.D. Cal. ARCHITECT G.E. Holguin & Association	PHONE (619) 294 2450
ARCHITECT G.E. Holguin & Assoc	CONTACT George Holguin
ADDRESS 1955 W. Grant Rd	PHONE (602) 628 1988
	CONTACT
	PHONE
CONTRACTOR Unavailable	CONTACT
ADDRESS	PHONE
PRE-DESIGN MEETING:	• •
YES ND COPY OF CONFERENCE RECAP SHEET PROVIDE	o previously
PLEASE CHECK TYPE OF APPROVAL EXPECTED WIT	
SKETCH PLAT APPROVAL PRELIMINARY PLAT APPROVAL SITE DEVELOPMENT PLAN APPROVAL FINAL PLAT APPROVAL BUILDING PERMIT APPROVAL CERTIFICATE OF OCCUPANCY APPROVAL ROUGH GRADING PERMIT APPROVAL GRADING/PAVING PERMIT APPROVAL OTHER(SPECIFY	SEP 2 4 1985 HYDROLOGY SECTION
DATE SUBMITTED: 2/25/85 BY: Star K Schnoll	

DRAINAGE REPORT

FOR

ELDORADO PLACE APARTMENT COMPLEX

FEBRUARY 25, 1985



CDS DEVELOPMENT PREPARED FOR:

2850 6TH AVENUE

SAN DIEGO, CA 92103

TOM MANN & ASSOCIATES, INC. PREPARED BY:

811 DALLAS N.E.

ALBUQUERQUE, NM 87110 (505) 265-5611

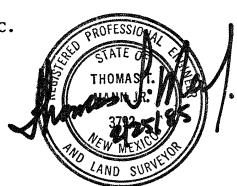


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PURPOSE AND SCOPE

The purpose of this drainage report is to establish the criteria for controlling runoff resulting from development in a manner consistent with the City of Albuquerque Drainage Ordinance and Development Process Manual.

This report analyzes the runoff resulting from a 100-year frequency, 6-hour duration storm under existing and developed conditions.

The scope of the plan is to ensure that the proposed development will be protected from storm runoff and will not increase the flooding potential of adjacent properties.

LOCATION AND DESCRIPTION

Eldorado Place is located in the northeast quadrant of the City of Albuquerque. The site is bounded by Montgomery Boulevard to the north, Eldorado High School to the west and south, and the Embudito Channel to the east. Figure 1, the Vicinity Map, depicts the location of the site.

The parcel is zoned R-3 for residential development. The parcel contains 7.2 acres and will be developed as a 216-unit apartment complex with a single owner. Presently, the site is undeveloped.

According to the National Flood Insurance Program Flood Boundary Site, the site does not lie within a Flood Hazard Zone. The 100-year flood is confined to the Embudito Channel.

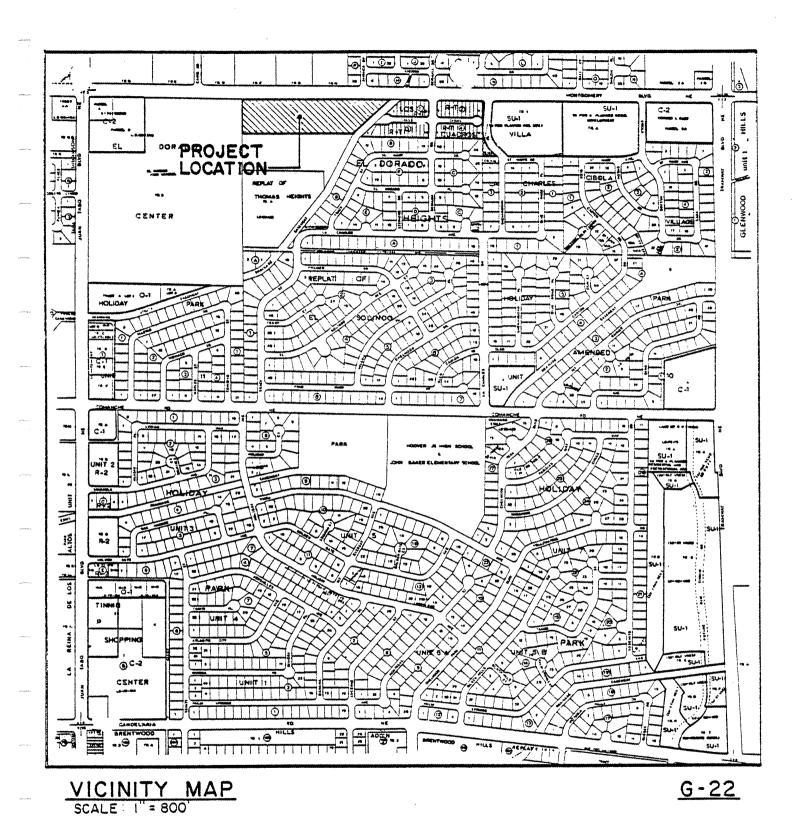


FIGURE I

DESIGN CRITERIA

The analysis of storm runoff for the site is based upon the Rational Method, as outlined in the City of Albuquerque's "Development Process Manual, Volume II." This approach determines the peak discharge and associated volume of runoff for the specified design storm (100-year frequency, 6-hour duration) falling on the study area. Street capacities and channel capacities are determined by the Manning Equation. Pipe capacities are determined by the Mannings Equation also.

EXISTING DRAINAGE CONDITION

The site currently slopes from northeast to southwest at approximately 4%. The runoff from the site enters the Eldorado High School parking lot and eventually reaches the Embudito Channel. No offsite flows enter the site.

The Embudito Channel, which lies to the east of the site, is presently an unlined channel with drop structures, an outlet structure, and a rundown structure.

As indicated by Figure 2, the soil on the site has been classified by the Soil Conservation Service as EtC (Embudo Tijeras Complex). This soil has been classified as a Type 'B' soil which indicates medium runoff potential and moderate potential of soil erosion.

PROPOSED DRAINAGE CONDITIONS

The proposed drainage plan, Figure 3, is included at the back of this report. The plan shows 1) existing contours at 2' 0" intervals, 2) proposed spot elevations and contours at 2' 0" intervals, 3) proposed drainage conditions, 4) location of proposed retaining walls, and 5) limit and character of proposed improvements.

For the purpose of analyzing street and inlet capacities, the site has been broken down into three drainage sub-basins. (See Figure 5).

Basin 'A' discharges into the Embudito Channel via a 30" storm drain pipe. Basin 'B' discharges into Montgomery Boulevard, and Basin 'C' discharges into a pond at the southwest corner of the site and is then pumped into Montgomery Boulevard.

This Embudito Channel, according to the City of Albuquerque's Master Drainage Study, Volume C, has sufficient capacity to handle the proposed runoff. However, the velocity indicated by the Master Drainage Study, 7.8 feet per second, warrants bank protection to prevent soil erosion. The detailed working drawings are not a part of this report but are included in a "Drainage Facilities Within Public Right-Of-Way" project.

The City of Albuquerque's Master Drainage Study, Volume C, indicates that the existing storm sewer system (System 302) at the intersection of Juan Tabo and Montgomery has sufficient capacity to convey the proposed runoff from Basin 'B' into the Embudito Channel. The capacity of System 302 is 152 cfs. The existing runoff for the 100-year storm from the contributing basin at the outfall of System 302 is 132 cfs. The proposed runoff from the project site wil result in a total runoff of 137.7 cfs (See Appendix 'B' of this report). Therefore, the entire 100-year storm will be conveyed under ground to the Embudito Arroyo in Juan Tabo.

Appendix 'C' indicates that the capacity of Montomery Boulevard is 299 cfs, at a depth of 0.87, at the intersection of Cairo N.E. (prior to the storm sewer system). Since the entire runoff from the developed basin is 137.7 cfs, during the 100-year storm, Montgomery Boulevard therefore, has adequate capacity.

Ponding has been provided for the 100-year discharge from Basin 'C', with a freeboard of 9". Should both pumps fail during a storm greater than the 100-year design storm, overflow will occur through weepholes provided in the south wall. The discharge will be conveyed through the Eldorado High School playfield, and into the Embudito Arroyo.

Should the inlet on the storm drain system become clogged, overflow from Basin A will enter Basin C. Should this occur during a storm greater than the 100-year design storm, overflow of the pond would occur.

CONCLUSIONS AND RECOMMENDATIONS

- 1. The Embudito Channel has sufficient capacity to adequately convey the developed runoff from the site.
- 2. Channel stabilization will be required (the design is not a part of this report).
- 3. Montgomery Boulevard has the capacity to convey the proposed discharge.
- 4. Retaining walls have been called for where differential elevations exceed 16". Retaining wall designs are not included in the scope of the enclosed drawings.
- 5. The proposed improvements will not contribute to the flooding potential of adjacent sites.

APPENDIX A

RUNOFF CALCULATIONS - EXISTING CONDITION

PROJECT SITE - EXISTING STATE

(Rational Method)

Site:

Area = 313,520 sf = 7.20 Ac

% impervious = 0 C = 0.34 (DPM Plate 22.2 C-1) $Q_{100} = CiA$ $i = 6.84 \,_{6}T_{C} \,^{-0.51} = 5.50 \,_{in/hr}$ where $P_{6} = 2.6 \,_{in} \,_{0} \,_{0.77} \,_{0.385} = 10 \,_{0} \,_{0.100} \,_{0.100}$

 $Q_{100} = 0.34$ (5.50) 7.20 = 13.5 cfs

 $V_{100} = CP_6A = 23,100 \text{ cf}$

APPENDIX B RUNOFF CALCULATION - DEVELOPED CONDITION

PROJECT SITE: - DEVELOPED STATE

Basin A

Area of basin = 2.85 Ac

% impervious = 74

C = 0.72 (DPM Plate 22.2 C-1)

 $Q_{100} = CiA$ (Rational Equation)

Where i = $6.84 P_{6T_C}^{-0.51} = 5.50 in/hr$

 $P_6 = 2.6 \text{ in/hr (DPM Plate 22.1 D-1)}$

 $T_C = 10 \text{ minutes (minimum)}$

 $Q_{100} = 11.2 \text{ cfs}$

 $V_{100} = 14.370 \text{ cf}$

Basin B

Area of basin = 1.40 Ac

% impervious = 77

C = 0.74

i = 5.5 in/hr

 $T_C = 10 \text{ minutes (minimum)}$

 $Q_{100} = 5.7 \text{ cfs}$

 $V_{100} = 9775 \text{ cfs}$

Basin C

Area of basin = 2.95 Ac

% impervious = 68 73

C = 0.68 0.71

i = 5.50 in/hr

 $T_C = 10$ minutes (minimum)

 $Q_{100} = \frac{11.0 \text{ cfs}}{100} = \frac{11.0 \text{ cfs}}{19770 \text{ cf}}$

APPENDIX C

POND, CHANNEL, STORM DRAIN AND STREET CAPACITIES

POND, CHANNEL, STORM DRAIN AND STREET CAPACITIES

Pond Capacity - Average End-Area Method

$$^{A_{53.50}} = 0$$
 > Vol = 930 cf

$$A_{54.00} = 3720 \text{ sf}$$
 > Vol = 3930 cf

$$A_{55.00} = 4145 \text{ sf}$$
 > Vol = 4440 cf

$$A_{56.00} = 4735 \text{ sf}$$
 > Vol = 5160 cf

$$A_{57.00} = 5590 \text{ sf}$$
 > Vol = 6805 cf

$$A_{58.00} = 8025 \text{ sf}$$

$$2 \text{ Vol} = 4195 \text{ cf}$$
A_{58.50} = 8760 sf

$$25,460 \text{ cf}$$
 Freeboard = $9.0.71$

Channel Capacity - Manning Equation (See Figure 3)

$$Q = 1.49/n A R^{2/3} S^{1/2}$$

where Q = Discharge, cfs

h = 0.017 Manning coefficient, dimensionless

A = Cross-sectional area, sf

R = Hydraulic radius, ft

S = Slope, ft/ft

A = 4.37 sf

$$R = A/P = 4.37/8 = 0.55$$

S = 0.0166

Q = 33.1 cfs

STORM DRAIN CAPACITY

A. Pipe (Mannings Equation)

Gravity Flow

$$Q = 1.49/n A R^{2/3} S^{1/2}$$

n = 0.015

$$A = 4.91 \text{ sf}$$

$$R = A/P = 4.91/7.85 = 0.625$$

Q = 15.9 cfs

B. Inlet Capacity (Orifice Equation)

Q = CA 2gh

where C = clog coefficient = 0.60

A = open area of grate = 4.1 sf

 $g = 32.2 \text{ ft/sec}^2 = \text{acceleration of gravity}$

h = head = 0.51

Q = 14.0 cfs

MONTGOMERY BOULEVARD CAPACITY

Manning Equation: $Q = 1.49/n AR^{2/3} S^{1/2}$

n = 0.018

A = 39.45

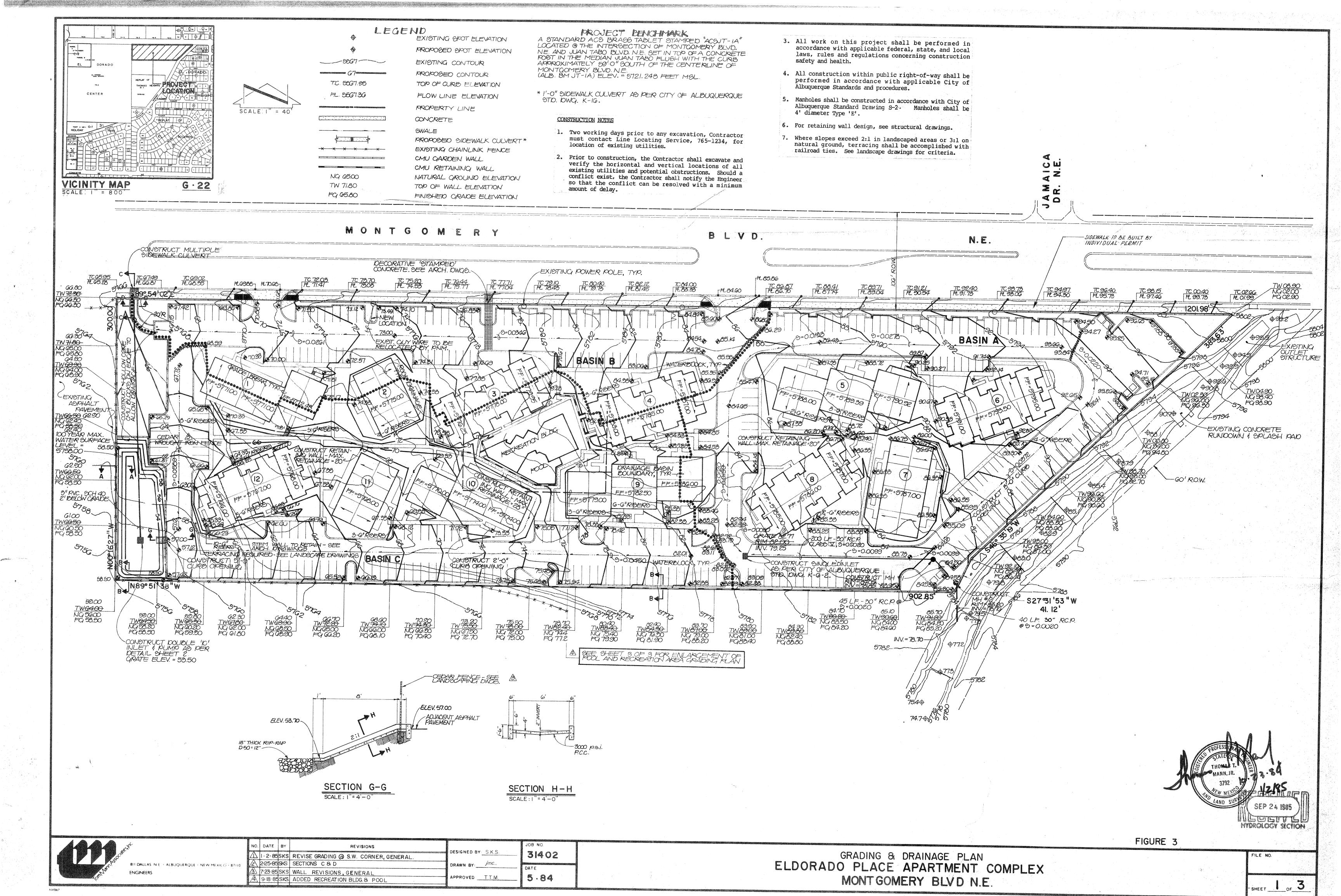
R = A/D = 3945/92.33 = 0.43

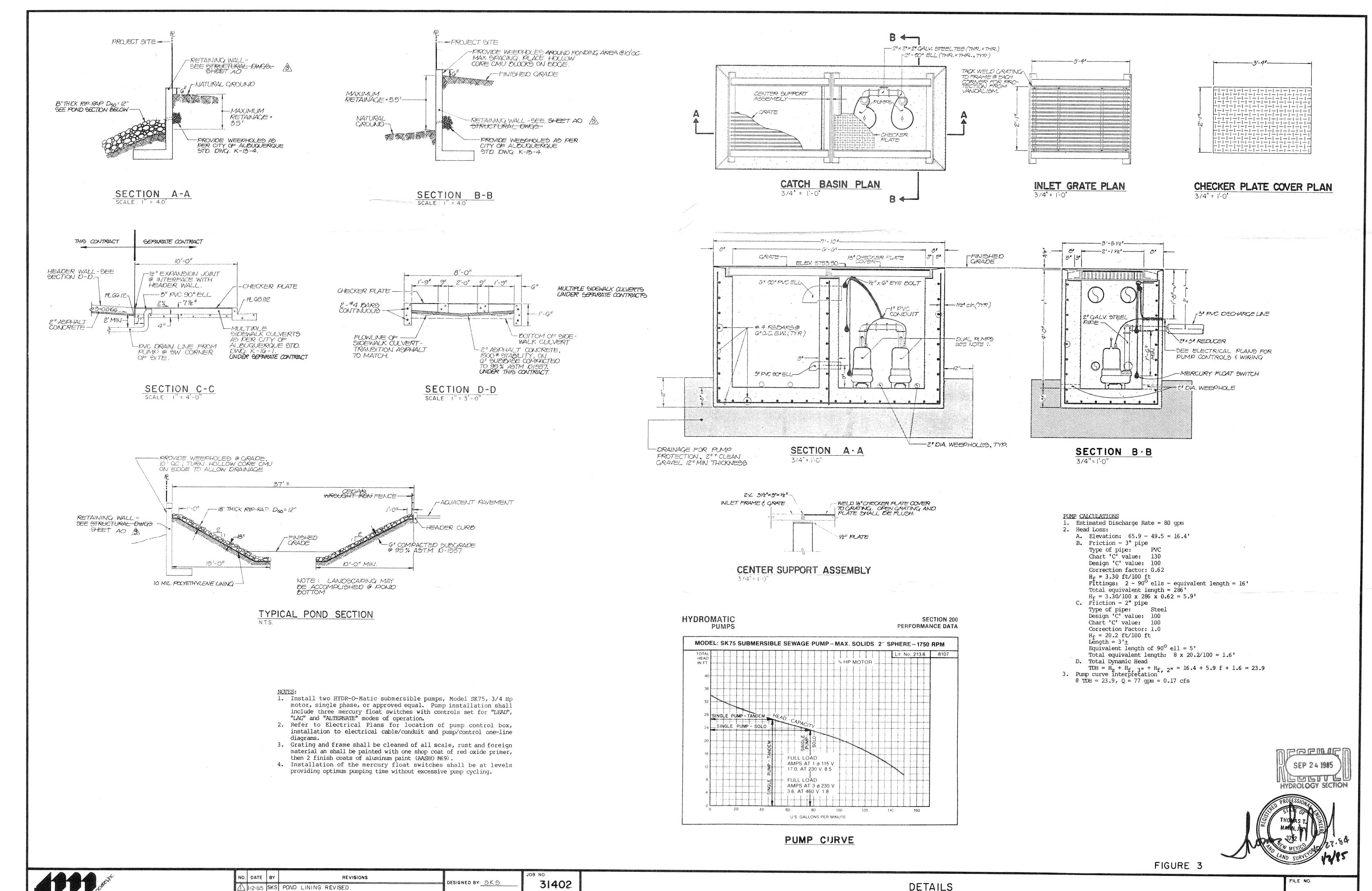
S = 0.0262 ft/ft

Q = 299 cfs

42.381 80 SHEETS 5.50UARE 42.382 100 SHEETS 5.50UARE 42.382 200 SHEETS 5.50UARE

Montgomery Blud (@ Cairo) HTS





2.25.85 SKS SECTIONS C & D

3 7.2385 SKS WALL REVISIONS, GENERAL.

4 9 18 8 SKS ADDED RECREATION BLDG

811 DALLAS, N.E. - ALBUQUERQUE - NEW MEXICO - 87110

ENGINEERS

DRAWN BY: L.B.D.

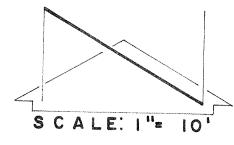
APPROVED: T.T.M.

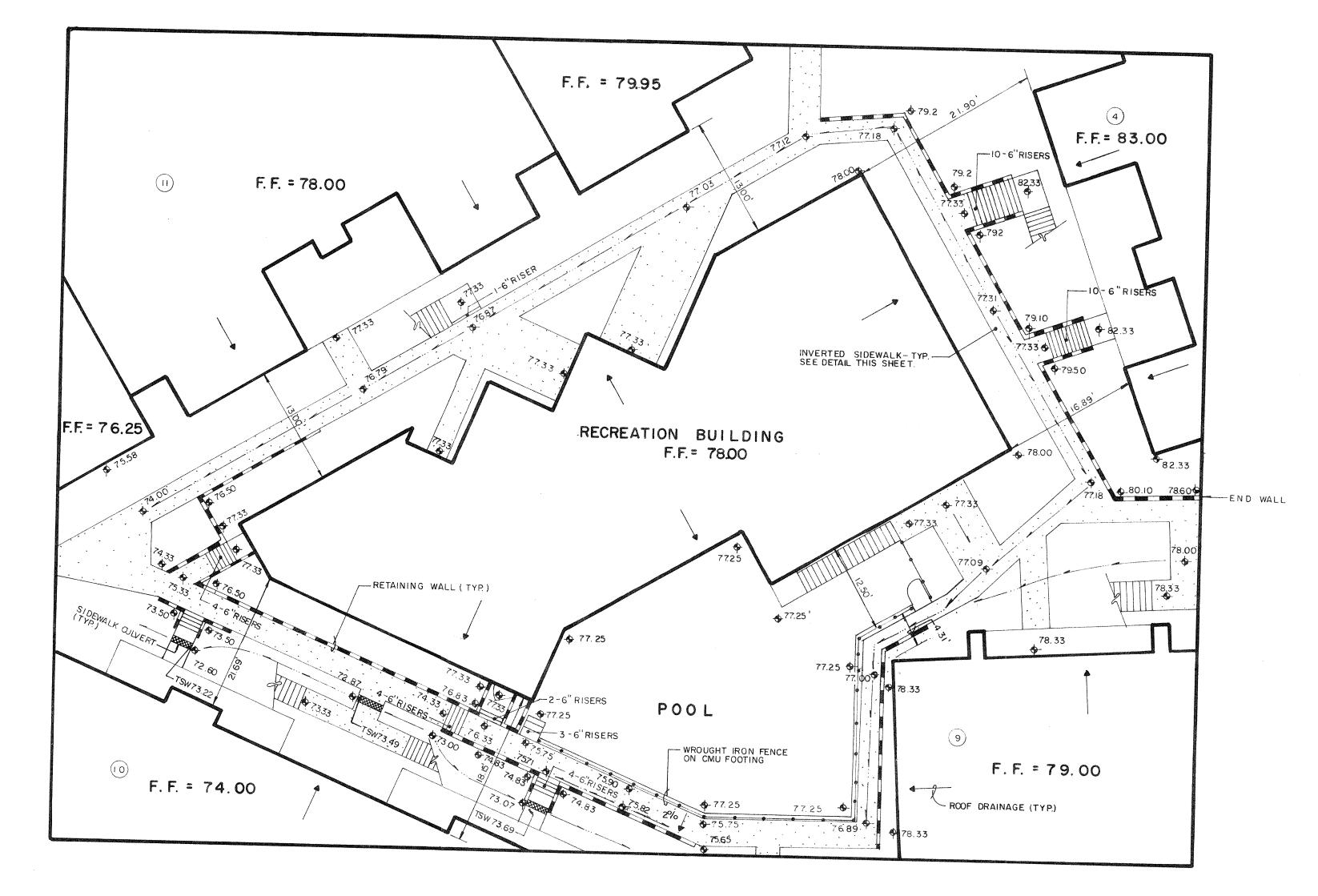
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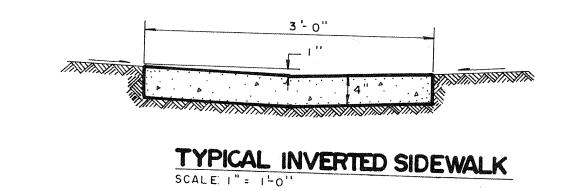
DETAILS

ELDORADO PLACE APARTMENTS

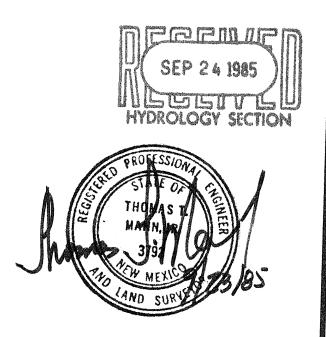
SHEET 2 OF 3





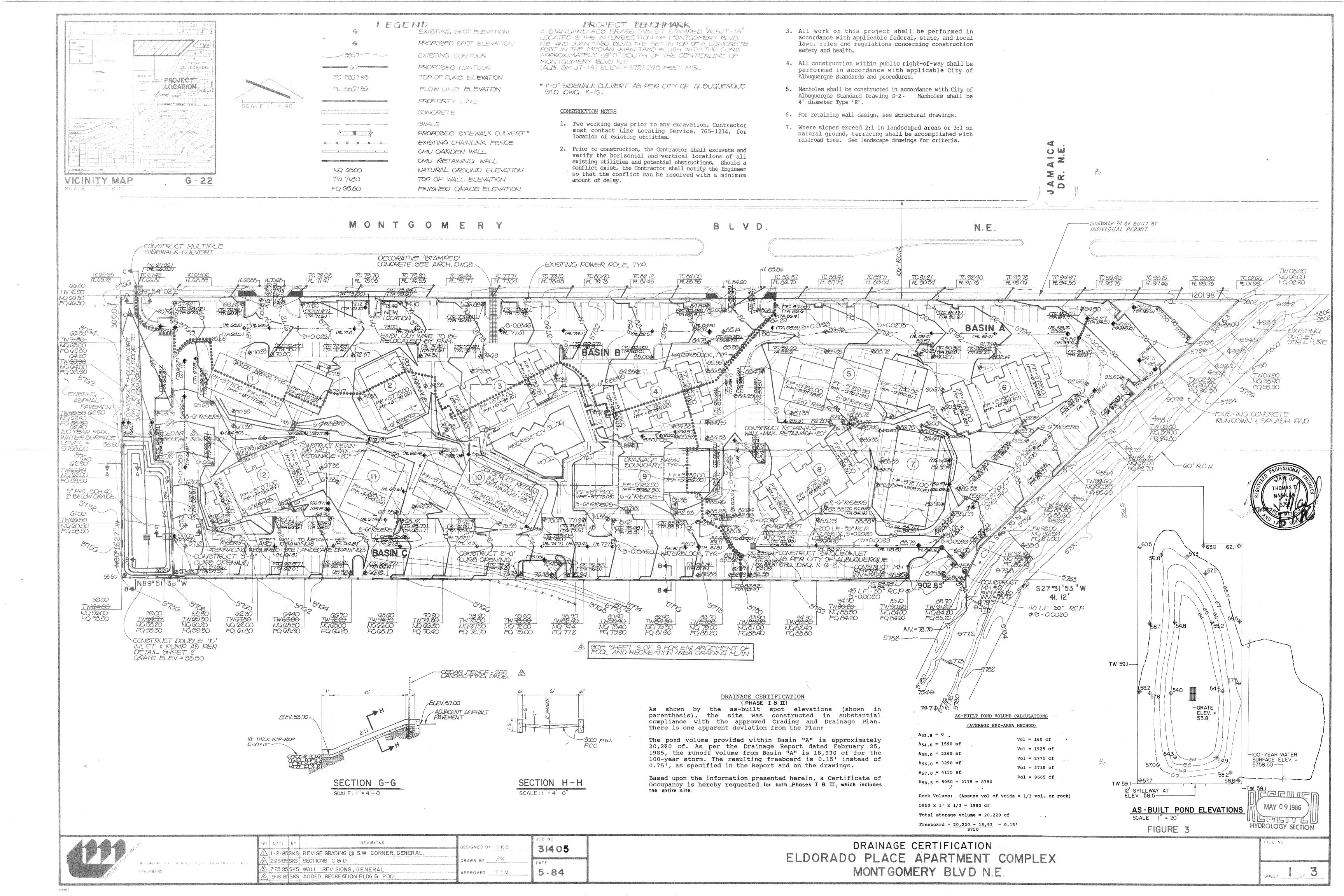


RECREATION & POOL AREA



				V ENATION OF				
		NO.	DATE	BY	REVISIONS		JOB NO.	
h sight to	OU DALLAGA AND		9/23		ADDED RECREATION BLDG. 8 POOL	DESIGNED BY: S.K.S.	31402	
the state of the s	811 DALLAS, N.E. + ALBUQUERQUE + NEW MEXICO + 87110 ENGINEERS		Marie Carlos de			DRAWN BY: J.M.C.	DATE	Dark Control
Con.						APPROVED: T.T.M.	9 · 85	
						·		L

FIGURE 3





P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN HYDROLOGY SECTION 123 Central NW, Albuquerque, NM 87102 (505) 766-7644

May 16, 1986

Tom Mann Tom Mann & Associates, Inc. 811 Dallas, NE Albuquerque, New Mexico 87110

RE: CERTIFICATION FOR PHASE I & II ELDORADO PLACE APARTMENT COMPLEX (6-22/D18) ENGINEER'S STAMP DATED MAY 1, 1986

Dear Tom:

Based on the information provided on your resubmittal of May 9, 1986, certification for the above referenced drainage plan is acceptable.

Please advise your client that they will need to contact Rick Duran, Hydrology Inspector, to make arrangements for release of the Certificate of Occupancy.

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

Cordially,

Bernie J. Montoya, C.E. Engineering Assistant

Bennie J. Montago

cc: Rick Duran

BJM/bsj

MUNICIPALEDEVELOPMENT DEPARTMENT



P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN HYDROLOGY SECTION 123 Central NW, Albuquerque, NM 87102 (505) 766-7644

May 9, 1986

Tom Mann Tom Mann & Associates, Inc. 811 Dallas, NE Albuquerque, New Mexico 87110

RE: CERTIFICATION FOR PHASE I & II ELDORADO PLACE APARTMENT COMPLEX (G-22/D18) ENGINEER'S STAMP DATED MAY 1, 1986

Dear Mark:

Based on the information provided on your May 2, 1986 submittal, certification for the above referenced drainage plan is acceptable.

Please advise your client that they will need to contact Rick Duran to make arrangements for release of the Certificate of Occupancy.

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

Cordially,

Bernie J. Montoya, C.E.
Engineering Assistant

cc: Rick Duran

BJM/bsj

MUNICIPAL DEVELOPMENT DEPARTMENT

ENGINEERING DIVISION

Telephone (505) 766-7467



P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN HYDROLOGY SECTION 123 Central NW, Albuquerque, NM 87102 (505) 766-7644

December 4, 1985

Tom Mann Tom Mann & Associates, Inc. 811 Dallas NE Albuquerque, NM 87110

REF: PHASING PLAN FOR ELDORADO APARTMENTS (G22-D18) ENGINEER'S STAMP DATED

11/5/85

Dear Tom:

Based on the information provided on your November 19, 1985 submittal, request for Phase Plan approval is granted. Please advise your client that certification for each phase will be required before any C.O.'s will be issued.

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

Sincerely,

Bernie J. Montoya Bernie J. Montoya, CE Engineering Assistant

BJM:mrk



P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN HYDROLOGY SECTION 123 Central NW, Albuquerque, NM 87102 (505) 766-7644

November 14, 1985

Tom Mann Tom Mann & Associates, Inc. 811 Dallas, NE Albuquerque, New Mexico 87110

RE: PHASING PLAN FOR ELDORADO APARTMENTS RECEIVED NOVEMBER 6, 1985 (G-22/D18)

Dear Tom:

Based on the information provided on your November 6, 1985 submittal, the request cannot be processed until revision date for the phasing plan is included.

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

Cordially,

Bernie J. Montoya Bernie J. Montoya, C.E.

Bernie J. Montoya, C.E Engineering Assistant

BJM/bsj

MUNICIPAL DEVELOPMENT DEPARTMENT



P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN HYDROLOGY SECTION 123 Central NW, Albuquerque, NM 87102 (505) 766-7644

October 2, 1985

Tom Mann Tom Mann & Associates 811 Dallas NE Albuquerque, NM 87110

REF: REVISED DRAINAGE PLAN FOR ELDORADO PLACE APARTMENTS (G22-D18)
RECEIVED SEPTEMBER 24, 1985

Dear Tom,

Based on the information provided on your September 24, 1985 submittal, revisions indicated on your drainage report with revision date 9/18/85 and drainage plans sheets 1 thru 3 with revision date 9/23/85 are acceptable.

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

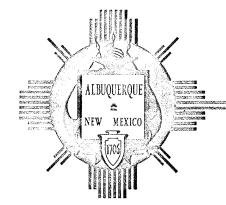
Sincerely,

Bernie J. Montoya

Engineering Assistant

Hydrology

BJM/cl



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

DESIGN HYDROLOGY SECTION 123 Central NW, Albuquerque, NM 87102 (505) 766-7644

September 26, 1985

Tom Mann Tom Mann & Assoc. 811 Dallas NE Albuquerque, NM 87110

REF: PHASING PLAN FOR ELDORADO APARTMENT (G22-D18) RECIEVED SEPTEMBER 4, 1985

Dear Tom,

Based on the information provided on your September 4, 1985 submittal, the phasing plan will be approved once we get a revised copy showing engineer's stamp with signature with new revision date.

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

Sincerely,

Bernie J. Montoya Bernie J. Montoya CE Engineering Assistant

Hydrology

BJM/cl

MUNICIPAL DEVELOPMENT DEPARTMENT



P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN HYDROLOGY SECTION 123 Central NW, Albuquerque, NM 87102 (505) 766-7644

August 23, 1985

Mr. Tom Mann Jom Mann & Assoc. 811 Dallas NE Albuquerque, NM 87110

REF: REVISED DRAINAGE AND GRADING PLAN FOR ELDORADO PLACE APTS (G22-D18) REPORT APPROVED 2/25/85 AND REVISION PLAN DATED 7/23/85 SHEET 1 & 2

Dear Tom,

Based on the information provided on your August 1, 1985 resubmittal, revisions indicated on your plan are acceptable.

If I can be of further assistance, please do not hesitate to contact me at 766-7644.

Sincerely,

Bernie J. Montoya Engineering Assistant

Bunis J. Montago

Hydrology

BJM/cl