CITY OF ALBUQUERQUE

July 30, 2013

Ronald Bohannan, P.E.
Tierra West, LLC
5571 Midway Park Place NE
Albuquerque, NM 87109

Re: The Pavillions (Walmart),
4700 Culter NE
Permanent Certificate of Occupancy – Transportation Development
Engineer's Stamp dated 07-23-13 (H17-D054)
Certification dated 07-23-13

Dear Mr. Bohannan,

Based upon the information provided in your submittal received 07-29-13, Transportation Development has no objection to the issuance of a **Permanent Certificate of Occupancy**. This letter serves as a "green tag" from Transportation Development for a **Permanent Certificate of Occupancy** to be issued by the Building and Safety Division.

If you have any questions, you can contact me at 924-3630.

Sincerely,

Nilo Salgado-Fernandez, P.E.
Senior Traffic Engineer, Planning Dept.
Development Review Services

C: Engineer
CO Clerk
File

PO Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: The Pavillions 4700 Cutler NE City Drainage #: H17D054

DRB#: 1007872 EPC#: Work Order#:

Legal Description: Tract 3A-1

City Address: 4700 Cutler NE Albuquerque, NM

Engineering Firm: Tierra West, LLC Contact: Ronald R. Bohannan

Address: 5571 Midway Park Place NE Albuquerque, NM 87109

Phone#: 505-858-3100 Fax#: 505-858-1118 E-mail: rrb@tierrawestllc.com

Owner: Wal-Mart Stores, Inc Contact: Jack Magnini

Address: 2001 S.E. 10th St. Bentonville, AR 72716

Phone#: 479-616-0728 Fax#: E-mail:

Architect: Contact:

Address:

Phone#: Fax#: E-mail:

Surveyor: Contact:

Address:

Phone#: Fax#: E-mail:

Contractor: AIC General Contractor, Inc. Contact: Tim Anthony

Address: 2703 G Broadbent Parkway Albuquerque, NM 87107

Phone#: 505-881-4242 Fax#: E-mail:

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT
___ DRAINAGE PLAN 1st SUBMITTAL
___ DRAINAGE PLAN RESUBMITTAL
___ CONCEPTUAL G & D PLAN
___ GRADING PLAN
___ EROSION & SEDIMENT CONTROL PLAN (ESC)
___ ENGINEER'S CERT (HYDROLOGY)
___ CLOMR/LOMR
___ TRAFFIC CIRCULATION LAYOUT (TCL)
___ ENGINEER'S CERT (TCL)
X ENGINEER'S CERT (DRB SITE PLAN)
___ ENGINEER'S CERT (ESC)
___ SO-19
___ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

___ SIA/FINANCIAL GUARANTEE RELEASE
___ PRELIMINARY PLAT APPROVAL
___ S. DEV. PLAN FOR SUB'D APPROVAL
___ S. DEV. FOR BLDG. PERMIT APPROVAL
___ SECTOR PLAN APPROVAL
___ FINAL PLAT APPROVAL
X CERTIFICATE OF OCCUPANCY (PERM)
___ CERTIFICATE OF OCCUPANCY (TCL TEMP)
___ FOUNDATION PERMIT APPROVAL
___ BUILDING PERMIT APPROVAL
___ GRADING PERMIT APPROVAL
___ PAVING PERMIT APPROVAL
___ WORK ORDER APPROVAL
___ GRADING CERTIFICATION
___ SO-19 APPROVAL
___ ESC PERMIT APPROVAL
___ ESC CERT. ACCEPTANCE
___ OTHER (SPECIFY)

29

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JUL 2013
LAND DEVELOPMENT SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED: ___ Yes ___ No ___ Copy Provided

DATE SUBMITTED: 07/23/2013 By: Ronald R. Bohannan

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the followin

1. **Conceptual Grading and Drainage Plan**: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5) acres
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4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

H-17/D054 - THE PAVILLIONS (WALMART)
4700 CUTLER NE



H-17/D054 - THE PAVILLIONS (WALMART)



H-17/D054 - THE PAVILLIONS (WALMART)



TIERRA WEST, LLC

5571 Midway Park Place NE Albuquerque, NM 87109
(505) 858-3100 Fax (505) 858-1118 1-800-245-3102
tierrawestllc.com

July 23, 2013

Ms. Kristal Metro, P.E.
Development and Building Services
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

RE: AS- BUILT APPROVED SITE PLAN FOR BUILDING PERMIT
CERTIFICATION FOR PERMANENT CERTIFICATE OF OCCUPANCY
THE PAVILLIONS, 4700 CUTLER NE

Dear Ms. Metro:

I, Ronald R. Bohannan, NMPE # 7868, of the firm Tierra West LLC, hereby request approval of the DRB Approved Site Development Plan for issuance of the Permanent Certificate of Occupancy for the project referenced above. This project is in substantial compliance as inspected on July 17, 2013, and is in accordance with the design intent of the Approved Administrative Amended Site Plan for Building Permit dated 10/09/12. This certification is submitted in support of the request for Permanent Certificate of Occupancy.

The record information presented hereon is not necessarily complete and intended only to verify substantial compliance of the traffic aspects of this project. Those relying on the record document are advised to obtain independent verification of its accuracy before using it for any other purpose.

Enclosed, please find the information sheet and the DRB Approved Site Development Plan and the as-built Site Plan for Building Permit (Area of Control). Therefore, we request approval of the as-built Site Plan for Building Permit .

If you have any questions or need additional information regarding this matter, please do not hesitate to contact me.

Sincerely,

Ronald R. Bohannan, P.E.

Enclosure/s

RONALD R. BOHANNAN NEW MEXICO 7868 REGISTERED PROFESSIONAL ENGINEER 7/23/13

RECEIVED
JUL 29 2013
LAND DEVELOPMENT SECTION

JN: 2011071
RRB/BF/jng

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CITY OF ALBUQUERQUE

Planning Department
Transportation Development Services Section

July 19, 2013

Ronald R. Bohannan, P.E.
Tierra West, LLC
5571 Midway Park Place NE
Albuquerque, NM 87109

Re: Certification Submittal for Certificate of Occupancy for
The Pavillions - Walmart (H-17/D054)
4700 Cutler NE
Engineer's Stamp dated 07-17-13

Dear Mr. Bohannan,

The Letter of Certification submitted on 07-19-13 is not sufficient for acceptance by this office for Permanent Certificate of Occupancy (C.O.). The following items need to be addressed:

OK

- An Approved Site Plan (with signatures) is required as part of the certification package.
- Van Accessible signage/plate is required on van accessible aisles. Please provide.
- For all parking stalls that are compacted, the pavement markings signifying Compact will need to be provided as shown on Site Plan.

The issuance of a **120-day Temporary Certificate of Occupancy** has been provided until the above items have been addressed. This letter serves as a "green tag" from Transportation Development for a **120-day Temporary Certificate of Occupancy** to be issued by the Building and Safety Division.

Once all items have been address, please resubmit acceptable package along with fully completed Drainage Information Sheet to front counter personnel for log in and evaluation by Transportation for a Permanent C.O. submittal.

Sincerely,

Nilo Salgado-Fernandez, P.E.
Senior Traffic Engineer, Planning Dept.
Development and Building Services

C: File

PO Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: The Pavillions 4700 Cutler NE City Drainage #: H17D054

DRB#: 1007872 EPC#: Work Order#:

Legal Description: Tract 3A-1

City Address: 4700 Cutler NE Albuquerque, NM

Engineering Firm: Tierra West, LLC Contact: Ronald R. Bohannan

Address: 5571 Midway Park Place NE Albuquerque, NM 87109

Phone#: 505-858-3100 Fax#: 505-858-1118 E-mail: rrb@tierrawestllc.com

Owner: Wal-Mart Stores, Inc Contact: Jack Magnini

Address: 2001 S.E. 10th St. Bentonville, AR 72716

Phone#: 479-616-0728 Fax#: E-mail:

Architect: Contact:

Address:

Phone#: Fax#: E-mail:

Surveyor: Contact:

Address:

Phone#: Fax#: E-mail:

Contractor: AIC General Contractor, Inc. Contact: Tim Anthony ERIC

Address: 2703 G Broadbent Parkway Albuquerque, NM 87107 881-4242

Phone#: 505-881-4242 Fax#: E-mail:

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT
___ DRAINAGE PLAN 1st SUBMITTAL
___ DRAINAGE PLAN RESUBMITTAL
___ CONCEPTUAL G & D PLAN
___ GRADING PLAN
___ EROSION & SEDIMENT CONTROL PLAN (ESC)
___ ENGINEER'S CERT (HYDROLOGY)
___ CLOMR/LOMR
___ TRAFFIC CIRCULATION LAYOUT (TCL)
___ ENGINEER'S CERT (TCL)
X ENGINEER'S CERT (DRB SITE PLAN)
___ ENGINEER'S CERT (ESC)
___ SO-19
___ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

___ SIA/FINANCIAL GUARANTEE RELEASE
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___ PAVING PERMIT APPROVAL
___ WORK ORDER APPROVAL
___ GRADING CERTIFICATION

___ SO-19 APPROVAL
___ ESC PERMIT APPROVAL
___ ESC CERT. ACCEPTANCE
___ OTHER (SPECIFY)

RECEIVED
JUL 17 2013
LAND DEVELOPMENT SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED: ___ Yes ___ No ___ Copy Provided

DATE SUBMITTED: 07/17/2013 By: Ronald R. Bohannan

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the followin

1. **Conceptual Grading and Drainage Plan**: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5) acres
3. **Drainage Report**: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

TIERRA WEST, LLC

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(505) 858-3100 Fax (505) 858-1118 1-800-245-3102
tierrawestllc.com

July 17, 2013

Ms. Kristal Metro, P.E.
Development and Building Services
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

RE: AS- BUILT APPROVED SITE PLAN FOR BUILDING PERMIT
CERTIFICATION FOR PERMANENT CERTIFICATE OF OCCUPANCY
THE PAVILLIONS, 4700 CUTLER NE

Dear Ms. Metro:

I, Ronald R. Bohannan, NMPE # 7868, of the firm Tierra West LLC, hereby request approval of the DRB Approved Site Development Plan for issuance of the Permanent Certificate of Occupancy for the project referenced above. This project is in substantial compliance as inspected on July 17, 2013, and is in accordance with the design intent of the Approved Administrative Amended Site Plan for Building Permit dated 10/09/12. This certification is submitted in support of the request for Permanent Certificate of Occupancy.

The record information presented hereon is not necessarily complete and intended only to verify substantial compliance of the traffic aspects of this project. Those relying on the record document are advised to obtain independent verification of its accuracy before using it for any other purpose.

Enclosed, please find the information sheet and the DRB Approved Site Development Plan and the as-built Site Plan for Building Permit (Area of Control). Therefore, we request approval of the as-built Site Plan for Building Permit .

If you have any questions or need additional information regarding this matter, please do not hesitate to contact me.

Sincerely,

Ronald R. Bohannan, P.E.

Enclosure/s

RONALD RAY BOHANNAN REGISTERED PROFESSIONAL ENGINEER NEW MEXICO 7868 7/17/13

JN: 2011071
RRB/BF/jng

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JUL 17 2013
LAND DEVELOPMENT SECTION

CITY OF ALBUQUERQUE

July 9, 2013

Ronald Bohannan, P.E.
Tierra West, LLC
5571 Midway Park Place NE
Albuquerque, NM 87109

Re: The Pavillions,
4700 Culter NE
Certificate of Occupancy – Transportation Development
Engineer's Stamp dated 07-01-13 (H17-D054)
Certification dated 07-01-13

Dear Mr. Bohannan,

Based upon the information provided in your submittal received 07-09-13, Transportation Development has no objection to the issuance of a **30-Day Temporary Certificate of Occupancy**. This letter serves as a "green tag" from Transportation Development for a **30-Day Temporary Certificate of Occupancy** to be issued by the Building and Safety Division.

If you have any questions, you can contact me at 924-3630.

Sincerely,

Nilo Salgado-Fernandez, P.E.
Senior Traffic Engineer, Planning Dept.
Development Review Services

C: Engineer
CO Clerk
File

PO Box 1293
Albuquerque
New Mexico 87103
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TIERRA WEST, LLC

5571 Midway Park Place NE Albuquerque, NM 87109
(505) 858-3100 Fax (505) 858-1118 1-800-245-3102
tierrawestllc.com

July 01, 2013

Ms. Kristal Metro, P.E.
Development and Building Services
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

RE: AS- BUILT APPROVED SITE PLAN FOR BUILDING PERMIT
CERTIFICATION FOR TEMPORARY CERTIFICATE OF OCCUPANCY
THE PAVILLIONS, 4700 CUTLER NE

Dear Ms. Metro:

I, Ronald R. Bohannan, NMPE # 7868, of the firm Tierra West LLC, hereby request approval of the DRB Approved Site Development Plan for issuance of the Temporary Certificate of Occupancy for the project referenced above. This project is in substantial compliance as inspected on July 01, 2013, and is in accordance with the design intent of the Approved Administrative Amended Site Plan for Building Permit dated 10/09/12. This certification is submitted in support of the request for Temporary Certificate of Occupancy to allow the 6" curb to be installed at the drive up window. The majority of the site is complete with traffic markings and signage. Handicapped Parking areas are complete.

The record information presented hereon is not necessarily complete and intended only to verify substantial compliance of the traffic aspects of this project. Those relying on the record document are advised to obtain independent verification of its accuracy before using it for any other purpose.

Enclosed, please find the information sheet and the DRB Approved Site Development Plan and the as-built Site Plan for Building Permit (Area of Control). Therefore, we request approval of the as-built Site Plan for Building Permit .

If you have any questions or need additional information regarding this matter, please do not hesitate to contact me.

Sincerely,

RONALD R. BOHANNAN NEW MEXICO 7868 REGISTERED PROFESSIONAL ENGINEER

Ronald R. Bohannan, P.E.

Enclosure/s

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JUL 02 2013
LAND DEVELOPMENT SECTION

JN: 2011071
RRB/BF/jng

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City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: The Pavillions 4700 Cutler NE City Drainage #: H17D054

DRB#: 1007872 EPC#: Work Order#:

Legal Description: Tract 3A-1

City Address: 4700 Cutler NE Albuquerque, NM

Engineering Firm: Tierra West, LLC Contact: Ronald R. Bohannan

Address: 5571 Midway Park Place NE Albuquerque, NM 87109

Phone#: 505-858-3100 Fax#: 505-858-1118 E-mail: rrb@tierrawestllc.com

Owner: Wal-Mart Stores, Inc Contact: Jack Magnini

Address: 2001 S.E. 10th St. Bentonville, AR 72716

Phone#: 479-616-0728 Fax#: E-mail:

Architect: Contact:

Address:

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Address: 2703 G Broadbent Parkway Albuquerque, NM 87107

Phone#: 505-881-4242 Fax#: E-mail:

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___ DRAINAGE PLAN 1st SUBMITTAL
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___ EROSION & SEDIMENT CONTROL PLAN (ESC)
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___ ESC PERMIT APPROVAL
___ ESC CERT. ACCEPTANCE
___ OTHER (SPECIFY)

RECEIVED
JUL 02 2013
LAND DEVELOPMENT SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED: ___ Yes ___ No ___ Copy Provided

DATE SUBMITTED: 07/02/2013 By: Ronald R. Bohannan

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the followin

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BOHANNAN - HUSTON INC.

PAVILLIONS
AT SAN MATEO
DRAINAGE MANAGEMENT PLAN

MARCH 1996

PAVILLIONS AT SAN MATEO
DRAINAGE MANAGEMENT PLAN

Prepared for:

KITCHELL DEVELOPMENT CO.
26 EXECUTIVE PARK, SUITE 100
IRVINE, CA 92714-6779

RECEIVED
MAR 2 [illegible]

BOHANNAN-HUSTON INC.
ENGINEERS • PLANNERS • PHOTOGRAMMETRISTS • SURVEYORS • LANDSCAPE ARCHITECTS
COURTYARD I, 7500 JEFFERSON NE, ALBUQUERQUE, NM 87109 TEL (505) 823-1000 FAX (505) 821-0892
ALBUQUERQUE — LAS CRUCES — SANTA FE

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III. SITE DESCRIPTION 1

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- B. Onsite Flows 2
- C. Offsite Flows 2

V. DEVELOPED (PROPOSED) CONDITIONS 3
- A. Introduction 3
- B. Developed Condition Drainage Basins 3

VI. CONCLUSION 4

FIGURES

EXHIBIT 1 - VICINITY MAP
EXHIBIT 2 - FEMA MAP

APPENDIX

APPENDIX I - HYDROLOGICAL CALCULATIONS BY BASIN
APPENDIX II - STORM DRAIN "A" CALCULATIONS
APPENDIX III - STORM DRAIN "B" CALCULATIONS

POCKETS

SHEET C1 of 2 - UNDEVELOPED (EXISTING) CONDITIONS MAP.
SHEET C2 of 2 - DEVELOPED CONDITIONS MAP/FINAL GRADING PLAN

BOHANNAN-HUSTON INC.
ENGINEERS • PLANNERS • PHOTOGRAMMETRISTS • SURVEYORS • LANDSCAPE ARCHITECTS
ALBUQUERQUE LAS CRUCES SANTA FE

PAVILLIONS AT SAN MATEO
DRAINAGE MANAGEMENT PLAN

I. PURPOSE

The purpose of this report is to provide a Grading and Drainage Plan for the Pavillions at San Mateo, a proposed shopping center development of 12 new commercial buildings on Tracts C and D, Land of Peace Foundation, Netherwood Park Addition, and New Mexico State Highway & Transportation Department (NMSH&TD) right-of-way.

This plan is submitted for City Hydrology Division and Albuquerque Metropolitan Arroyo Flood Control Authority (AMAFCA) review for the purpose of obtaining Rough Grading and Building approvals.

II. METHODOLOGY

This plan has analyzed existing and proposed hydrological and hydraulic conditions of the site and proposed development using approved City DPM methods of calculation. 100-year, 6-hour storm events are the basis of all calculations and flowrates referenced herein.

III. SITE DESCRIPTION

Tracts C and D, Netherwood Park Addition are currently vacant land with light vegetation, rolling hills, and decomposed granite soils. An additional existing tract between Tracts C and D is NMSH&TD right-of-way and also contains an 80' AMAFCA drainage easement. These properties will hereafter collectively be referred to as the "Site", and comprise just under 20 acres. The AMAFCA easement defines the right-of-way for four underground AMAFCA 10'W X 12'H concrete box culverts.

The Site is bounded by Cutler Avenue on the north, San Mateo on the east, I-40 right-of-way on the south and Washington Street on the west. All are paved public streets. A Vicinity Map is provided on Exhibit 1. A topographic map of the existing Site is shown on Sheet C1 of 2.

There are no FEMA 100-year storm floodways identified on the site. Please refer to Exhibit 2.

BOHANNAN-HUSTON INC.
ENGINEERS • PLANNERS • PHOTOGRAMMETRISTS • SURVEYORS • LANDSCAPE ARCHITECTS
ALBUQUERQUE LAS CRUCES SANTA FE

IV. UNDEVELOPED (EXISTING) CONDITIONS

A. Introduction

Sheet C1 of 2 in the rear pocket provides the reference plan for this section of the report. This plan identifies the drainage directions and patterns of flow currently occurring on the Site.

B. Onsite Flows

Basin E1 includes Tract D and approximately half of the NMSH&TD right-of-way. Basin E2 includes Tract C and the remaining westerly portion of the NMSH&TD right-of-way. Both basins include minor adjacent offsite area that directly contribute drainage from adjacent public right-of-ways. The 100-year, 6-hour storm currently generates 32.50 cfs and 24.02 cfs of peak flow from Basins E2 and E1, respectively. Basin E1 flows are discharged to Cutler Avenue where they are collected by existing street curb inlets and transferred to the 10'x12' box culverts. Basin E2 discharges to Cutler Avenue inlets (located in a sump in the street), which then discharge to the existing 18" storm drain pipe outlet, which discharges northerly to the Embudo Channel. The Embudo Channel is a major concrete-lined channel, under AMAFCA jurisdiction, lying north of Cutler Avenue.

C. Offsite Flows

The offsite flow basins considered in this analysis are three:

1. An off-site basin discharges drainage to the Site from Interstate 40 right-of-way from a 30" diameter RCP culvert and subsequent roadside swale near the southwest corner of Tract C. Previous drainage submittals (H-17/D6 and H-17/D54) have inconsistently reported this offsite flow (19.2 cfs and 3.4 cfs, respectively). The most recent of those calculations shows the flow as 3.4 cfs. For this report we will assume a flow of 10 cfs due to the uncertainty of the flow. This flow crosses the westerly portion of the Site and discharges to Cutler Avenue to be collected as Basin E2 above.

2. Basin E4 generates 12.22 cfs from Cutler Avenue right-of-way east of the box culverts. The flow is collected in a storm drain and discharged into the AMAFCA box culverts.

3. Basin E3 generates 8.70 cfs from Cutler Avenue right-of-way, west of the box culverts. This flow is collected in a storm drain that discharges into the Embudo Channel.

V. DEVELOPED (PROPOSED) CONDITIONS

A. Introduction

Please refer to Sheet C2 of 2 for a graphical presentation of the developed drainage conditions, as described below.

The proposed shopping center development consists of 12 new buildings, parking areas, and landscaped areas. Immediately adjacent to the Site, minor street modifications will made to Cutler Avenue to provide a new left turn lane at San Mateo. The property will be replatted to create 7 new parcels and eliminate the NMSH&TD right-of-way. The AMAFCA easement for the box culverts will be maintained in place without change. Offsite drainage will continue to be accepted as under existing undeveloped conditions.

All drainage from the Site will be permitted free discharge to the existing and proposed drainage facilities described herein. The existing Embudo Channel and the 4-10'x12' box culverts are considered to have adequate capacity, by traditional convention for major City/AMAFCA drainage facilities, to accept developed flows from the Site. All new drainage facilities will be designed for acceptance of fully developed, freely discharged flows.

B. Developed Condition Drainage Basins

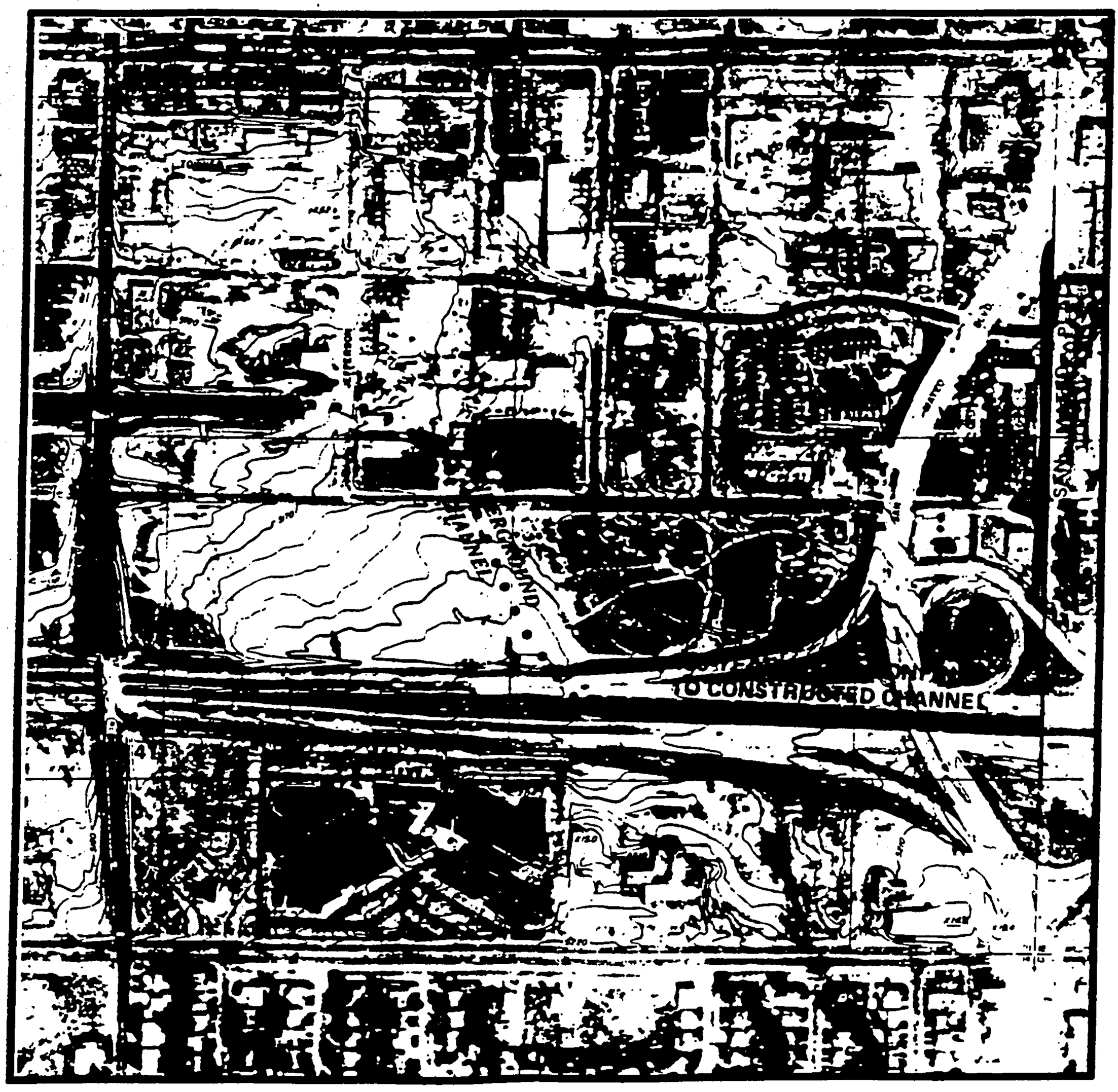
The developed flows of Basin 1 (43.46 cfs) and Basin 1A (2.43 cfs) will drain in sheet flow fashion to the northwest corner of the basins (near the middle Site entrance) where it will enter proposed inlets in the new parking lot. These new inlets are then connected by Storm Drain “A’ to the existing storm 36"storm sewer in the Cutler Avenue right-of-way. This existing storm sewer, which also collects flow from Basin E4, then enters the AMAFCA box culverts. Calculations for sizing Storm Drain “A” and associated inlets are provided in the Appendix.

The proposed developed flows of Basin 2 (10.19 cfs), Basin 2A (5.77 cfs), Basin 2B (18.62 cfs) and the assumed off-site pipe flow (10.0 cfs) drain ultimately to northwest corner of Basin 2A (near the westerly most Site entrance). There flows will enter new inlets in the parking lot and driveways and be transferred by new Storm Drain "B" across Cutler to the existing Embudo Channel through a new pipe penetration in the channel wall. The existing 18" storm sewer will be removed and its Cutler inlets will be connected to the new Storm Drain "B" in order to continue collecting flows from Cutler right-of-way (Basin 4). Storm Drain "B" will lie in the same alignment as the existing line, but will be deep enough to pass under the existing 36" water transmission line in Cutler Avenue Calculations for the hydraulics of the new inlets and storm drain are provided in the Appendix.

VI. CONCLUSION

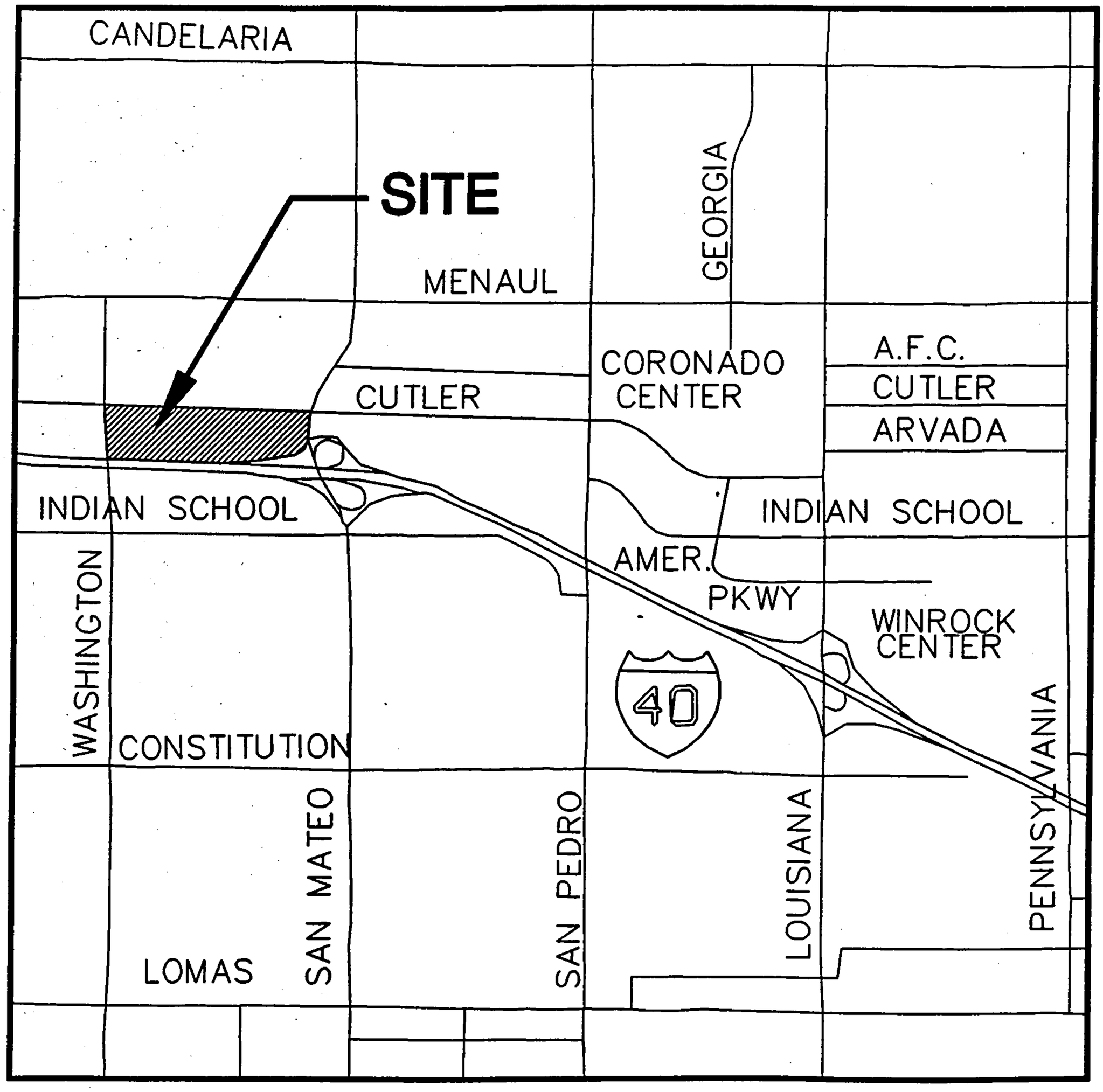
This report has presented the hydrological/hydraulic plans and justification for a proposed shopping center, called Pavillions at San Mateo. This report seeks approval of rough grading and building permit on the basis of these presentations.

FIGURES



FLOODWAY MAP

COMMUNITY–PANEL No. 350002 0023.



VICINITY MAP

H–17–Z

Appendix

APPENDIX

PAVILIONS AT SAN MATEO
HYDROLOGIC BASIN SUMMARY DATA
PROPOSED CONDITIONS

FILE:CDP:[C952200]PDRAIN.WK4
DATE: DECEMBER 21, 1994

BASIN ID	AREA (ACRES)	COMPOSITE % LAND TREATMENT A	B	C	D	100-YEAR RATIONAL METHOD PEAK DISCHARGE CI(cfs/ac)	RATIONAL METHOD RUNOFF Q-100(cfs)	COMPOSITE EXCESS PRECIP. E	RATIONAL METHOD 6-HR VOLUME V-100(ac-ft)
1	10.02	0	15	0	85	4.34	43.46	1.92	1.60
1A	0.56	0	15	0	85	4.34	2.43	1.92	0.09
2	2.35	0	15	0	85	4.34	10.19	1.92	0.38
2A	5.77	0	15	0	85	4.34	25.02	1.92	0.92
2B	5.17	24	11	6	60	3.60	18.62	1.54	0.66
E3	1.85	0	0	0	100	4.70	8.70	2.12	0.33
E4	2.60	0	0	0	100	4.70	12.22	2.12	0.46

RAINFALL DATA FOR 100-YEAR, 6-HOUR STORM

PEAK DISCHARGE (C*I) IN cfs/ac BY LAND TREATMENTS (TABLE A-9)

C*I(a)= 1.56
C*I(b)= 2.28
C*I(c)= 3.14
C*I(d)= 4.70

EXCESS PRECIPITATION (E) IN inches BY LAND TREATMENTS (TABLE A-8)

E(a)= 0.53
E(b)= 0.78
E(c)= 1.13
E(d)= 2.12

PAVILIONS AT SAN MATEO
HYDROLOGIC BASIN SUMMARY DATA
EXISITING CONDITIONS

FILE:CDP:[C952200]XDRAIN.WK4
DATE: DECEMBER 21, 1994

BASIN ID	AREA (ACRES)	COMPOSITE % LAND TREATMENT A	B	C	D	100-YEAR RATIONAL METHOD PEAK DISCHARGE CI(cfs/ac)	RATIONAL METHOD RUNOFF Q-100(cfs)	COMPOSITE EXCESS PRECIP. E	RATIONAL METHOD 6-HR VOLUME V-100(ac-ft)
E1	10.23	0	92	8	0	2.35	24.02	0.81	0.69
E2	13.40	0	92	3	5	2.43	32.50	0.86	0.96
E3	1.85	0	0	0	100	4.70	8.70	2.12	0.33
E4	2.60	0	0	0	100	4.70	12.22	2.12	0.46

RAINFALL DATA FOR 100-YEAR, 6-HOUR STORM

PEAK DISCHARGE (C*I) IN cfs/ac BY LAND TREATMENTS (TABLE A-9)

C*I(a)= 1.56
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C*I(d)= 4.70

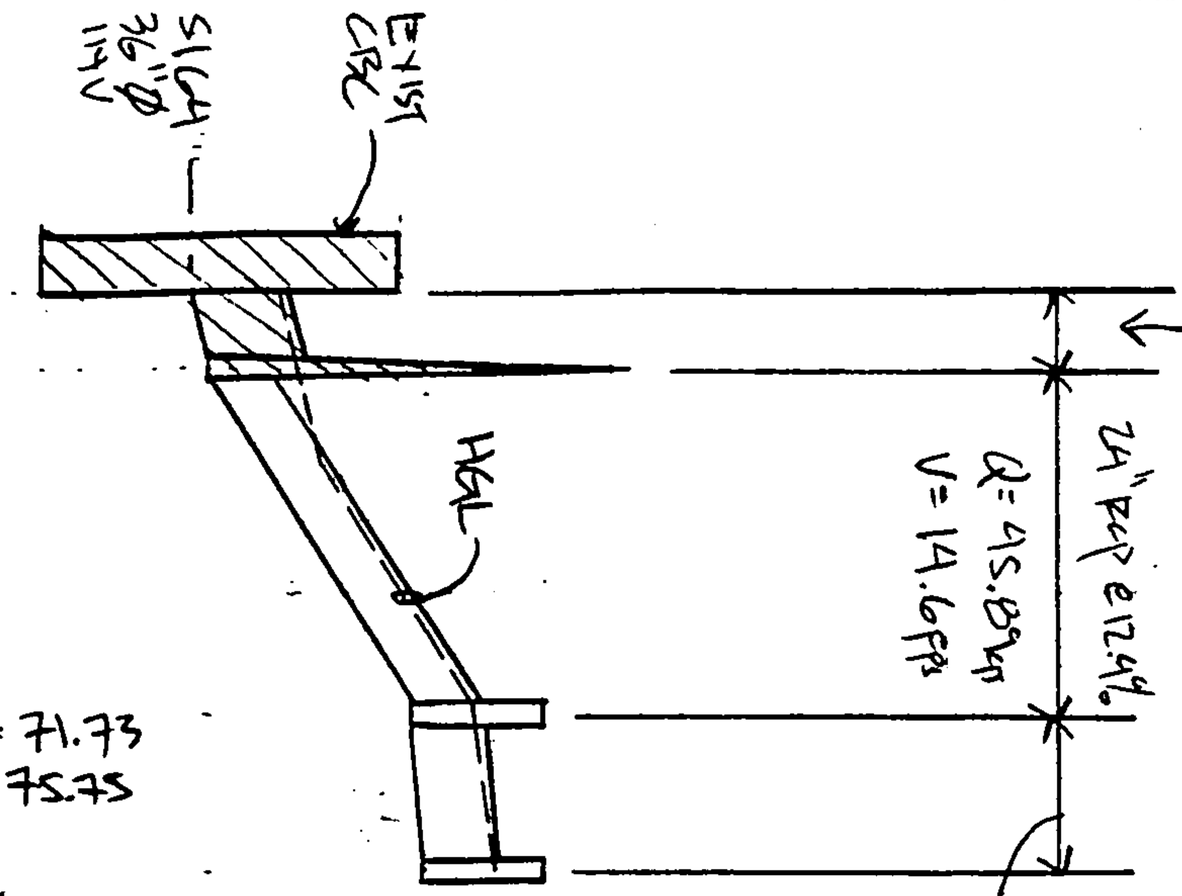
EXCESS PRECIPITATION (E) IN inches BY LAND TREATMENTS (TABLE A-8)

E(a)= 0.53
E(b)= 0.78
E(c)= 1.13
E(d)= 2.12

1+00 - SD "A"
10 x 12 CBC - INV = 64.00
1+73
EXIST. MIN INV = 64.50

1+71 SD "A"
BUILD "D" INLET, INV = 71.73
GR = 75.75

1+96 SD "A"
BUILD "D" DBL INLET
INV = 72.25
GRATE = 75.75



MAIN DRAIN "A"

HORIZ. SCALE 1" = 50'
VERT. SCALE 1" = 10'

BOHANNAN-HUSTON INC.

PROJECT NAME _____ SHEET _____ OF _____

PROJECT NO. _____ BY _____ DATE _____

SUBJECT _____ CH'D _____ DATE _____

***** HYDRAULIC GRADE LINE CALCULATIONS *****
***** PAVILIONS AT SAN MATEO - STORM DRAIN "A" *****

Station	Structure	Diam.	Q	Area	Vel.	K	Sf	Length	MH Dia.	JNCT Angle	Hf	Hb	Hj	Hmh	Ht	Total Losses	HGL(dn)	HGL(up)	Low Point	HV	EGL(dn)	EGL(up)
1+00	CBC								0.00	0.00		0.00	0.00	0.00	0.00	0.00	5167.00	5167.00	5167.00	1.05	5168.05	5168.05
		36	58.1	7.07	8.22	667	0.0076	13.00			0.10					0.10						
1+13	MH								6.00	30.00		0.23	2.26	0.00	0.13	2.62	5167.10	5167.46	5175.75	3.31	5168.15	5170.77
		24	45.9	3.14	14.61	226	0.0411	58.00			2.39					2.39						
1+71	INLET								6.00	30.00		0.25	0.26	0.00	0.05	0.56	5169.85	5172.50	5175.75	1.22	5173.16	5173.72
		30	43.5	4.91	8.85	410	0.0112	26.00			0.29					0.29						

Manning's n = 0.013
for pipe

STORM DRAIN "A"

INLET ANALYSIS

BASIN 1 INLET

$Q_{IN} = 43.46$ cfs

FOR A TYPE "D" DOUBLE INLET IN A SUMP

$h_{max} = 1.75$ - BELOW CURB ADJACENT TO PAD P4

$A_{GRATE} = 8.20$ SF

$P_{GRATE} = 13.72$ LF

$Q_{ORIFICE,GRATE} = 0.6A\sqrt{2gh} = (0.6)(8.20)(\sqrt{64.4 \cdot 1.75}) = 52.2 > 43.46$

$Q_{WEIR,GRATE} = 3.3Ph^{3/2} = (3.3)(13.72)(1.75)^{3/2} = 104.82 > 43.46$

$Q_{ORIFICE,30"OUTLET} = 0.6A\sqrt{2gh} = (0.6)(4.9)\sqrt{(64.4)(3.5)} = 73.7 > 43.46$

USE GRATE 75.75, INV = 72.25 $\phi_{OUT} = 30"$

BASIN 1A INLET

$Q_{IN} = 2.43$ cfs

FOR A TYPE "D" SINGLE INLET IN A SUMP.

$h_{MAX} = 0.5'$ ON ADJACENT CURBS

$A_{GRATE} = 4.10$ SF

$P_{GRATE} = 9.00$ LF

$Q_{ORIFICE,GRATE} = 0.6A\sqrt{2gh} = (0.6)(4.1)\sqrt{(64.4)(.5)} = 13.96 > 2.43$

$Q_{WEIR,GRATE} = 3.3Ph^{3/2} = (3.3)(9.00)(.5)^{3/2} = 10.5 > 2.43$

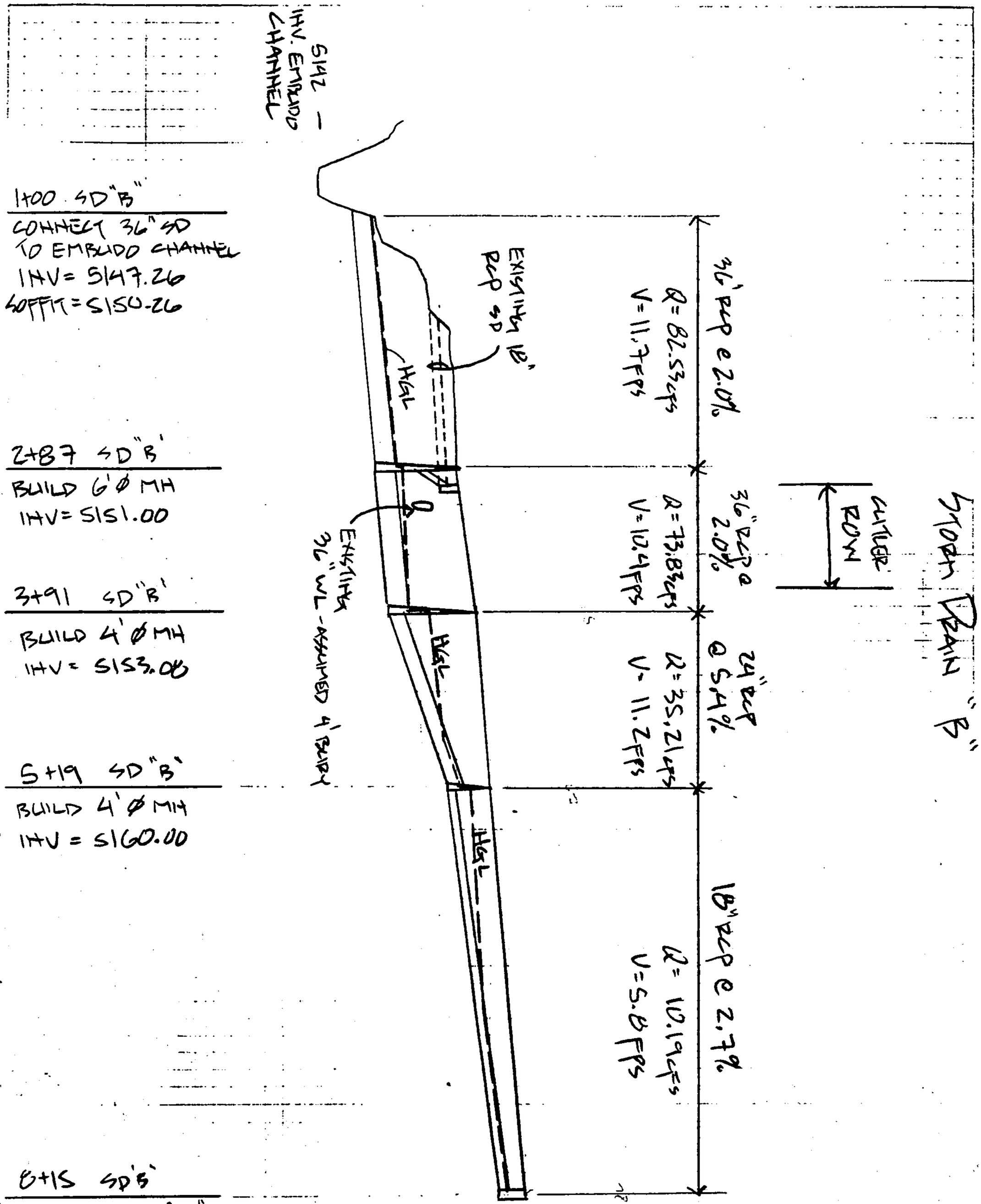
USE GRATE = 75.75, INV = 71.73 $\phi_{OUT} = 24"$

BOHANNAN-HUSTON INC.

PROJECT NAME _____ SHEET _____ OF _____

PROJECT NO. _____ BY _____ DATE _____

SUBJECT _____ CH'D _____ DATE _____



BOHANNAN-HUSTON INC.

PROJECT NAME _____ SHEET _____ OF _____

PROJECT NO. _____ BY _____ DATE _____

SUBJECT _____ CH'D _____ DATE _____

***** HYDRAULIC GRADE LINE CALCULATIONS *****
***** PAVILIONS AT SAN MATEO - STORM DRAIN "B" *****

Station	Structure	Diam.	Q	Area	Vel.	K	Sf	Length	MH Dia.	JNCT Angle	Hf	Hb	Hj	Hmh	Ht	Total Losses	HGL(dn)	HGL(up)	Low Point	HV	EGL(dn)	EGL(up)
1+00	OUTLET								0.00	0.00		0.00	0.00	0.00	0.00	0.00	5150.26	5150.26	5150.26	2.12	5152.38	5152.38
		36	82.5	7.07	11.68	667	0.0153	187.00			2.86					2.86						
2+87	MH								6.00	30.00		0.22	0.34	0.00	0.00	0.56	5153.12	5154.11	5163.00	1.69	5155.24	5155.80
		36	73.8	7.07	10.44	667	0.0123	104.00			1.27					1.27						
3+91	MH								6.00	30.00		0.21	2.66	0.00	0.00	2.87	5155.38	5157.99	5165.00	1.95	5157.08	5159.94
		24	35.2	3.14	11.21	226	0.0242	128.00			3.10					3.10						
5+19	MH								4.00	30.00		0.12	1.75	0.00	0.11	1.98	5161.09	5164.61	5167.00	0.42	5163.05	5165.03
		19	10.2	1.97	5.18	121	0.0071	296.00			2.09					2.09						

Manning's n = 0.013
for pipe

STORM DRAIN "B"

INLET ANALYSIS

BASIN 2 INLET

$Q_{IN} = 10.19$ CFS

FOR A TYPE "D" INLET IN A SUMP:

$A_{GRATE} = 4.10$ SF NET OPEN AREA

$P_{GRATE} = 9.00$ LF

MAX HEAD = 6" (TOP OF ADJACENT CURB)

$Q_{ORIFICE,\ GRATE} = 0.6A\sqrt{2gh} = (0.6)(4.10)\sqrt{(64.4)(0.5)} = 13.96 > 10.19$

$Q_{WIER,\ GRATE} = 3.3Ph^{1.5} = (3.3)(9.0)(.5)^{3/2} = 10.50 > 10.19$

$Q_{ORFICE,\ 18"\ OUTLET} = 0.6A\sqrt{2gh} = (0.6)(1.77)\sqrt{(64.4)(4')} = 17.0 > 10.19$

USE GRATE = 63.52, INV = 59.52, ϕ_{OUT} = 18"

BASIN 2A INLET

$Q_{IN} = 25.02$

FOR A TYPE "D" DOUBLE INLET IN A SUMP

$A_{GRATE} = 8.20$ SF

$P_{GRATE} = 13.72$ LF

MAX HEAD = 1.5' IF GRATE = 65.5, WSEL = 67.0

$Q_{ORIFICE,\ GRATE} = 0.6A\sqrt{2gh} = (0.6)(8.20)\sqrt{(64.4)(1.5)} = 48.4$ CFS > 25.02

$Q_{WIER,\ GRATE} = 3.3Ph^{1.5} = (3.3)(13.72)(1.5)^{3/2} = 83.8 > 25.02$ CFS

$Q_{ORIFICE,\ 24"\ OUTLET} = 0.6(3.14)\sqrt{(64.4)(4)} = 30.25 > 25.02$

USE GRATE = 65.5, INV = 61.5 ϕ_{OUT} = 24"

BOHANNAN-HUSTON INC.

PROJECT NAME _____ SHEET _____ OF _____

PROJECT NO. _____ BY _____ DATE _____

SUBJECT _____ CH'D _____ DATE _____

BASIN 2B INLET

Q_{IN} = 38.62 CFS

FOR A TYPE "D" DOUBLE INLET IN A SUMP

A_{GRATE} = 8.20 SF

P_{GRATE} = 13.72 LF

MAX HEAD = 2.0' - TOP OF ADJACENT CURB

$Q_{ORIFICE,GRATE} = 0.6A\sqrt{2gh} = (0.6)(8.2)\sqrt{(64.4)(2)} = 55.8 > 38.62$

$Q_{WIER,GRATE} = 3.3Ph^{3/2} = (3.3)(13.72)2^{3/2} = 128.3 > 38.62$

$Q_{ORIFICE,24"\ OUTLET} = (0.6)(3.14)\sqrt{(64.4)(6.5)} = 38.62 = 38.62$

USE GRATE = 63.50, INV = 57.00 ϕ_{OUT} = 24"

BOHANNAN-HUSTON INC.

PROJECT NAME _____ SHEET _____ OF _____

PROJECT NO. _____ BY _____ DATE _____

SUBJECT _____ CH'D _____ DATE _____

BOHANNAN - HUSTON INC.

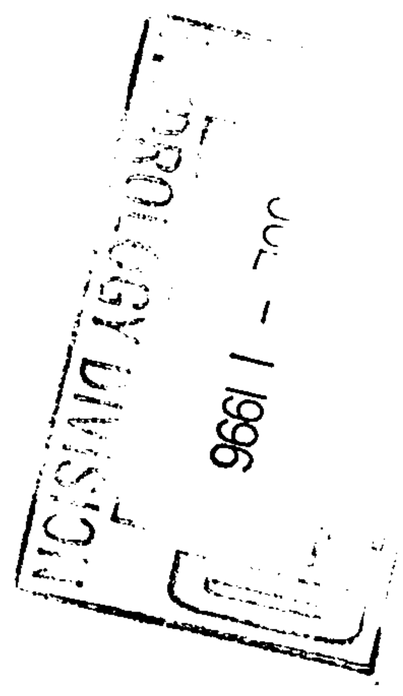
PAVILIONS
AT SAN MATEO
DRAINAGE REPORT

REVISED JUNE 1996

PAVILIONS AT SAN MATEO
REVISED DRAINAGE REPORT

Prepared for:

KITCHELL DEVELOPMENT CO.
26 EXECUTIVE PARK, SUITE 100
IRVINE, CA 92714-6779



BOHANNAN-HUSTON INC.
ENGINEERS • PLANNERS • PHOTOGRAMMETRISTS • SURVEYORS • LANDSCAPE ARCHITECTS
COURTYARD I, 7500 JEFFERSON NE, ALBUQUERQUE, NM 87109 TEL (505) 823-1000 FAX (505) 821-0892
ALBUQUERQUE — LAS CRUCES — SANTA FE

REVISED DRAINAGE REPORT
PAVILIONS AT SAN MATEO

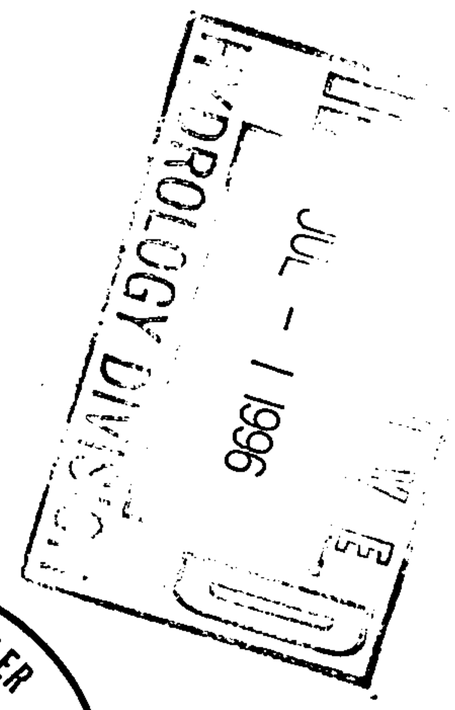
JUNE 1996

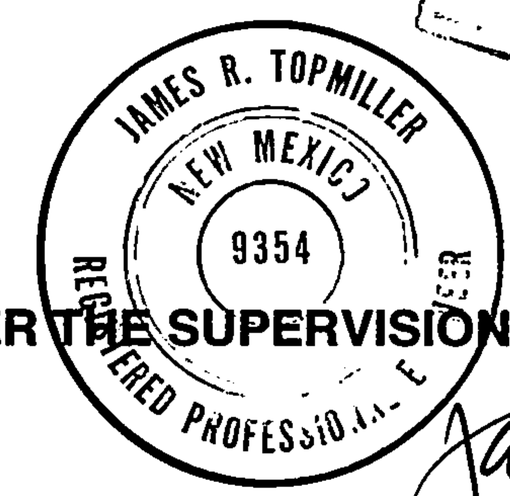
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ALBUQUERQUE, NM 87109

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KITCHELL DEVELOPMENT CO.
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IRVINE, CA 92714-6779





PREPARED BY:

John C Alexander

JOHN ALEXANDER, E.I.T.

UNDER THE SUPERVISION OF:

Jack R. Topmiller 6/28/96

JAMES TOPMILLER, P.E.

BOHANNAN-HUSTON INC.
ENGINEERS • PLANNERS • PHOTOGRAMMETRISTS • SURVEYORS • LANDSCAPE ARCHITECTS
ALBUQUERQUE LAS CRUCES SANTA FE

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POCKET III - PLAT OF TRACTS 1-7, PAVILIONS AT SAN MATEO
POCKET IV - GRADING/DRAINAGE PLAN (WEST PORTION OF SITE)
GRADING/DRAINAGE PLAN (EAST PORTION OF SITE)

I. PURPOSE

The purpose of this report is to provide a Revised Grading and Drainage plan for the Pavilions at San Mateo, a proposed shopping center development of multiple commercial building on Tracts 1-7, Pavilions at San Mateo (formerly Tracts C and D, Land of Peace Foundation, Netherwood Park Addition). This revised plan has changed drainage concepts in no significant way from the original approved plan. Primarily, the revisions provide for (1) more extensive onsite drainage system to reduce cross-parking lot surface drainage, (2) revise site grading to work better with the AMAFCA box culverts and new building layouts. Recent platting of the site into 7 new tracts is now shown on the plan (see enclosed plat Pocket #3).

The revised plan is submitted for City Hydrology Division and Albuquerque Metropolitan Arroyo Flood Control Authority (AMAFCA) review for the purpose of obtaining new Building Permit approvals. The original plan was submitted in March 1996 and approved in May 1996.

II. METHODOLOGY

This plan has analyzed existing and proposed hydrological and hydraulic conditions of the site and proposed development using approved City DPM methods of calculation. 100-year, 6-hour storm events are the basis of all calculations and flowrates referenced herein.

III. SITE DESCRIPTION

The site is currently vacant land with light vegetation, rolling hills, and decomposed granite soils. What was formerly NMSH&TD right-of-way has been

conveyed to the shopping center. AMAFCA's drainage easement has been expanded. These properties will hereafter collectively be referred to as the "Site", and comprise just under 20 acres. The AMAFCA easement defined the right-of-way for four underground AMAFCA 10'W X 12'H concrete box culverts.

The Site is bounded by Cutler Avenue on the north, San Mateo on the east, I-40 right-of-way on the south and Washington Street on the west. All are paved public streets. A Vicinity Map is provided on the enclosed plan. A topographic map of the existing Site is also enclosed (rear Pocket #1).

There are no FEMA 100-year storm floodways identified on the site. Please refer to Exhibit 2.

IV. UNDEVELOPED (EXISTING) CONDITIONS

A. Introduction

Sheet C1 of 2 in rear Pocket #1 provides the referenced plan for this section of the report. This plan identified the drainage directions and patterns of flow currently occurring on the Site.

B. Onsite Flows

Base E1 is the east portion of the site. Basin E2 is the remaining westerly portion of the site. Both basins include minor adjacent offsite area that directly contribute drainage from adjacent public right-of-ways. The 100-year, 6-hour storm currently generates 32.50 cfs and 24.02 cfs of peak flow from Basins E2 and E1, respectively. Basin E1 flows are discharged to Cutler Avenue where they are collected by existing street curb inlets and transferred to the 10'X12' box culverts. Basin E2

discharges to Cutler Avenue inlets (located in a sump in the street), which then discharges to the existing 18" storm drain pipe outlet, which discharges northerly to the Embudo Channel. The Embudo Channel is a major concrete-lined channel, under AMAFCA jurisdiction, lying north of Curler Ave.

C. Offsite Flows

The offsite flow basins considered in this analysis are three:

1. An off-site basin discharges drainage to the Site from Interstate 40 right-of-way from a 30" diameter RCP culvert and subsequent roadside swale near the southwest corner of Tract C. Previous drainage submittals (H-17/D6 and H-17/D54) have inconsistently reported this offsite flow (19.2 cfs and 3.4 cfs, respectively). The most recent of those calculations shows the flow as 3.4 cfs. For this report we will assume a flow of 10 cfs due to the uncertainty of the flow. This flow crosses the westerly portion of the Site and discharges to Cutler Avenue to be collected as Basin E2 above.

2. Basin E4 generates 12.22 cfs from Cutler Avenue right-of-way east of the box culverts. The flow is collected in a storm drain and discharged into the AMAFCA box culverts.

3. Basin E3 generates 8.70 cfs from Cutler Avenue right-of-way, west of the box culverts. This flow is collected in a storm drain that discharges into the Embudo Channel.

V. DEVELOPED (PROPOSED) CONDITIONS

A. Introduction

Please refer to Sheet C2 of 2 and the Grading Plan sheets (see rear Pockets #2 and #4) for a graphical presentation of the developed drainage conditions, as described below.

The proposed shopping center development consists of 15 new buildings, parking areas, and landscaped areas. Immediately adjacent to the Site, minor street modifications will be made to Cutler Avenue to provide a new right turn land at San Mateo. The AMAFCA easement for the box culverts will be maintained in place and was expanded to cover the entire former NMSH&TD R/W land. Offsite drainage will continue to be accepted as under existing undeveloped conditions.

All drainage from the Site will be permitted free discharge to the existing and proposed drainage facilities described herein. The existing Embudo Channel and the 4-10'X12' box culverts are considered to have adequate capacity, by traditional convention for major City/AMAFCA drainage facilities, to accept developed flows from the Site. All new drainage facilities will be designed for acceptance of fully developed, freely discharged flows.

B. Developed Condition Drainage Basins

The developed flows of Basins 12 thru 15 (45.33 cfs) will drain in sheet flow fashion in a northwesterly direction where they will enter proposed inlets near pad P-4 and Retail Pad E. These new inlets are then connected by Storm Drain "A" to the existing storm 36" storm sewer in the Cutler Avenue right-of-way. This existing storm sewer, which also collects flow from Basin E4, then enters the AMAFCA box culverts.

Calculations for sizing Storm Drain "A" and associated inlets are provided in the Appendix.

The proposed developed flows of Basin 1 (7.3 cfs) will flow north and east to be collected by a proposed inlet #1 north of Circuit City. The proposed developed flows of Basins 2 thru 11 (48.4 cfs) and the assumed offsite pipe flow (10.0 cfs) drain ultimately to proposed inlets #2 thru #8 in the new parking lot. These flows will be transferred by new Storm Drain "B" across Cutler to the existing Embudo Channel through a new pipe penetration in the channel wall. The existing 18" storm sewer will be removed and its Cutler inlets will be connected to the new Storm Drain "B" in order to continue collecting flows from Cutler right-of-way (Basin E3). Storm Drain "B" will lie in the same alignment as the existing line, but will be deep enough to pass under the existing 36" water transmission line in Cutler Avenue. Calculations for the hydraulics of the new inlets and storm drain are provided in the Appendix.

C. Revised Grading

The enclosed grading plans reflect new site grading. These grading plans provide sufficient cover over the AMAFCA box culvert and match revised building schemes.

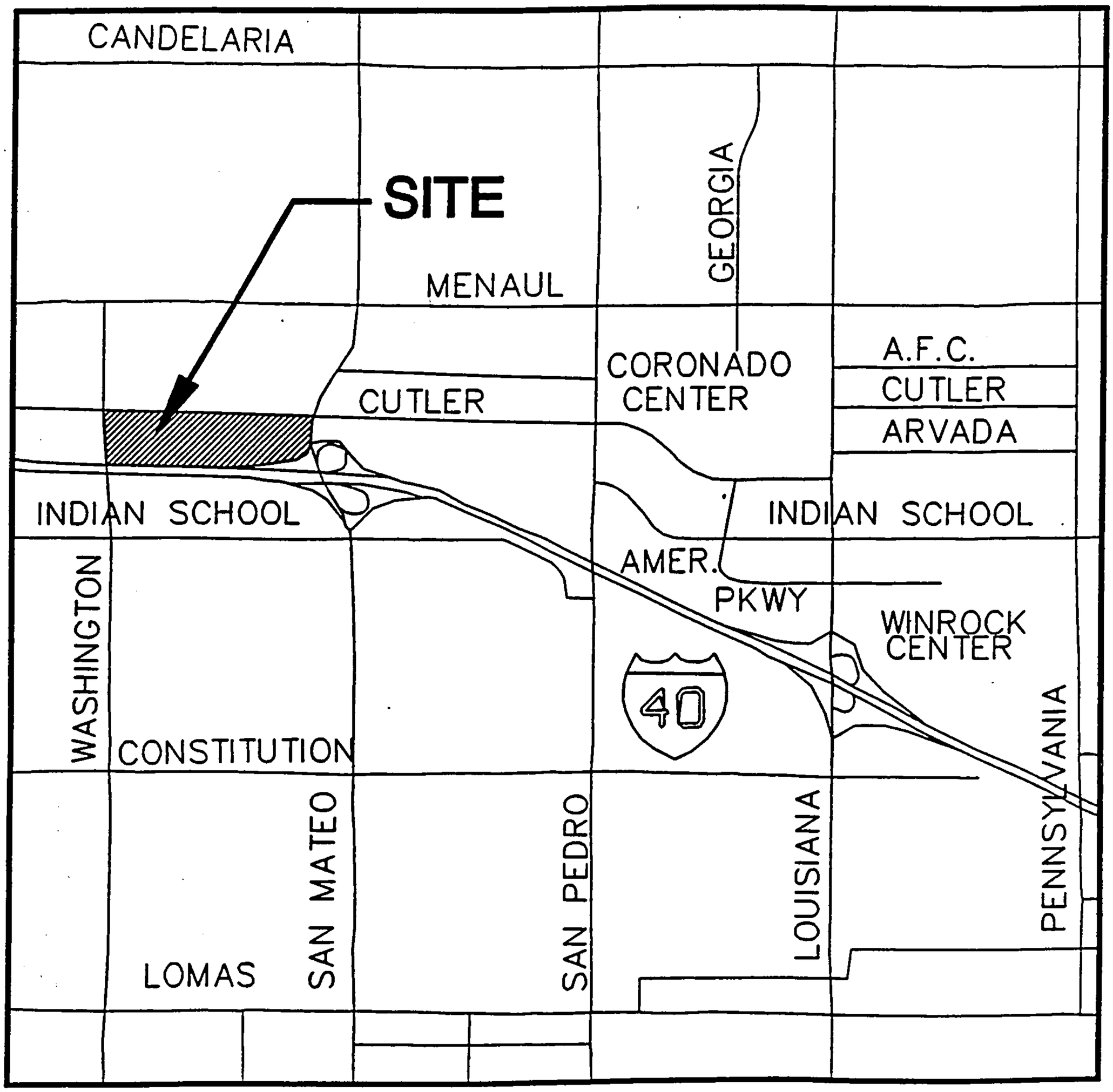
Additionally, the site now grades into I-40 right-of-way along its east border. The NMSH&TD has concurred with this scheme, as evidenced by the enclosed letter in the Appendix.

VI. CONCLUSION

This report has presented the hydrological/hydraulic plans and justification for a proposed shopping center, called Pavilions at San Mateo. This revised report seeks approval of building permits of these presentations.

EXHIBIT 1

VICINITY MAP



VICINITY MAP

H–17–Z

EXHIBIT 2

FEMA MAP

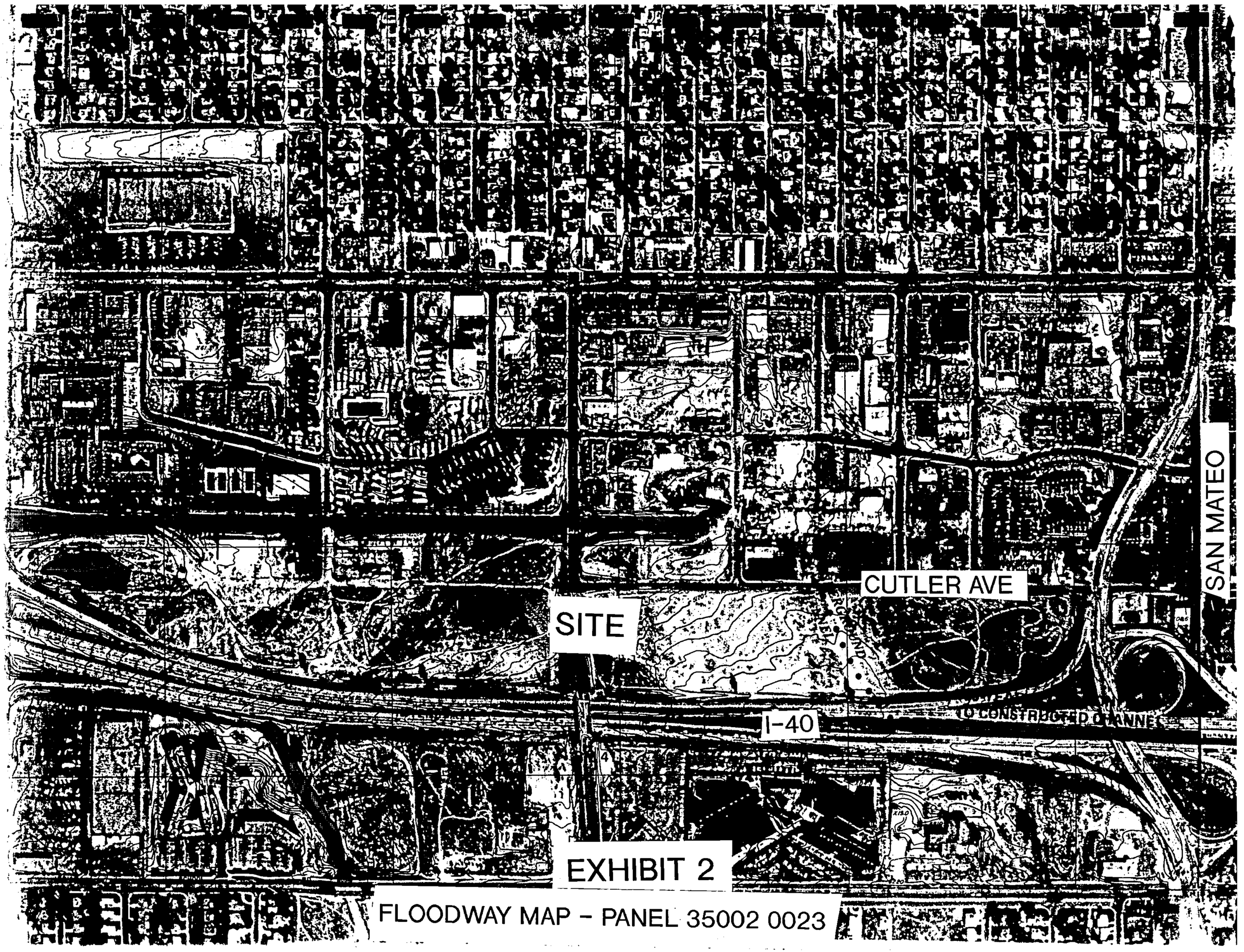


EXHIBIT 2

FLOODWAY MAP – PANEL 35002 0023

Appendix

APPENDIX I

HYDROLOGICAL CALCULATIONS BY BASIN

PAVILIONS AT SAN MATEO
HYDROLOGIC BASIN SUMMARY DATA
PROPOSED CONDITIONS
25-Jun-96

	PEAK DISCHARGE (CI), CFS/ACRE- ZONE 2			
EVENT	A	B	C	D
100YR (6 hr	1.56	2.28	3.14	4.7

	EXCESS PRECIPATION (E), INCHES- ZONE 2			
EVENT	A	B	C	D
100YR (6 hr	0.53	0.78	1.13	2.12

FULLY DEVELOPED CONDITIONS **SUMMARY OF HYDROLOGIC DATA** **Qp (100YR)= CIA**

BASIN ID	AREA AC	AREA SQ.MI.	% LAND TREATMENT A	B	C	D	TIME TO PEAK	COMPOSITE CI	Qp (100YR) (CFS)	COMPOSITE E	V-100 (6hr) AC-FT
1	2.080	0.0033	30.0	0.0	15.0	55.0	0.1333	3.52	7.3	0.33	0.06
2	0.510	0.0008	0.0	0.0	0.0	100.0	0.1333	4.70	2.4	2.12	0.09
3	0.270	0.0004	0.0	0.0	0.0	100.0	0.1333	4.70	1.3	2.12	0.05
4	2.220	0.0035	100.0	0.0	0.0	0.0	0.1333	1.56	3.5	0.53	0.10
5	0.100	0.0002	0.0	0.0	0.0	100.0	0.1333	4.70	0.5	2.12	0.02
6	1.160	0.0018	0.0	15.0	0.0	85.0	0.1333	4.34	5.0	1.92	0.19
7	0.720	0.0011	0.0	15.0	0.0	85.0	0.1333	4.34	3.1	1.92	0.12
8	2.830	0.0044	0.0	10.0	0.0	90.0	0.1333	4.46	12.6	1.99	0.47
9	0.050	0.0001	0.0	0.0	0.0	100.0	0.1333	4.70	0.2	2.12	0.01
10	2.170	0.0034	0.0	15.0	0.0	85.0	0.1333	4.34	9.4	1.92	0.35
11	1.010	0.0016	0.0	0.0	0.0	100.0	0.1333	4.70	4.7	2.12	0.18
12	0.560	0.0009	0.0	15.0	0.0	85.0	0.1333	4.34	2.4	1.92	0.09
13	2.290	0.0036	0.0	15.0	0.0	85.0	0.1333	4.34	9.9	1.92	0.37
14	3.950	0.0062	0.0	15.0	0.0	85.0	0.1333	4.34	17.1	1.92	0.63
15	3.830	0.0060	0.0	10.0	20.0	70.0	0.1333	4.15	15.9	1.79	0.57
E3	1.930	0.0030	0.0	0.0	0.0	100.0	0.1333	4.70	9.1	2.12	0.34
E4	2.470	0.0039	0.0	0.0	0.0	100.0	0.1333	4.70	11.6	2.12	0.44

PAVILIONS AT SAN MATEO
HYDROLOGIC BASIN SUMMARY DATA
EXISITING CONDITIONS

FILE:CDP:[C952200]XDRAIN.WK4
DATE: DECEMBER 21, 1994

BASIN ID	AREA (ACRES)	COMPOSITE % LAND TREATMENT A	B	C	D	100-YEAR RATIONAL METHOD PEAK DISCHARGE CI(cfs/ac)	RATIONAL METHOD RUNOFF Q-100(cfs)	COMPOSITE EXCESS PRECIP. E	RATIONAL METHOD 6-HR VOLUME V-100(ac-ft)
E1	10.23	0	92	8	0	2.35	24.02	0.81	0.69
E2	13.40	0	92	3	5	2.43	32.50	0.86	0.96
E3	1.85	0	0	0	100	4.70	8.70	2.12	0.33
E4	2.60	0	0	0	100	4.70	12.22	2.12	0.46

RAINFALL DATA FOR 100-YEAR, 6-HOUR STORM

PEAK DISCHARGE (C*I) IN cfs/ac BY LAND TREATMENTS (TABLE A-9)

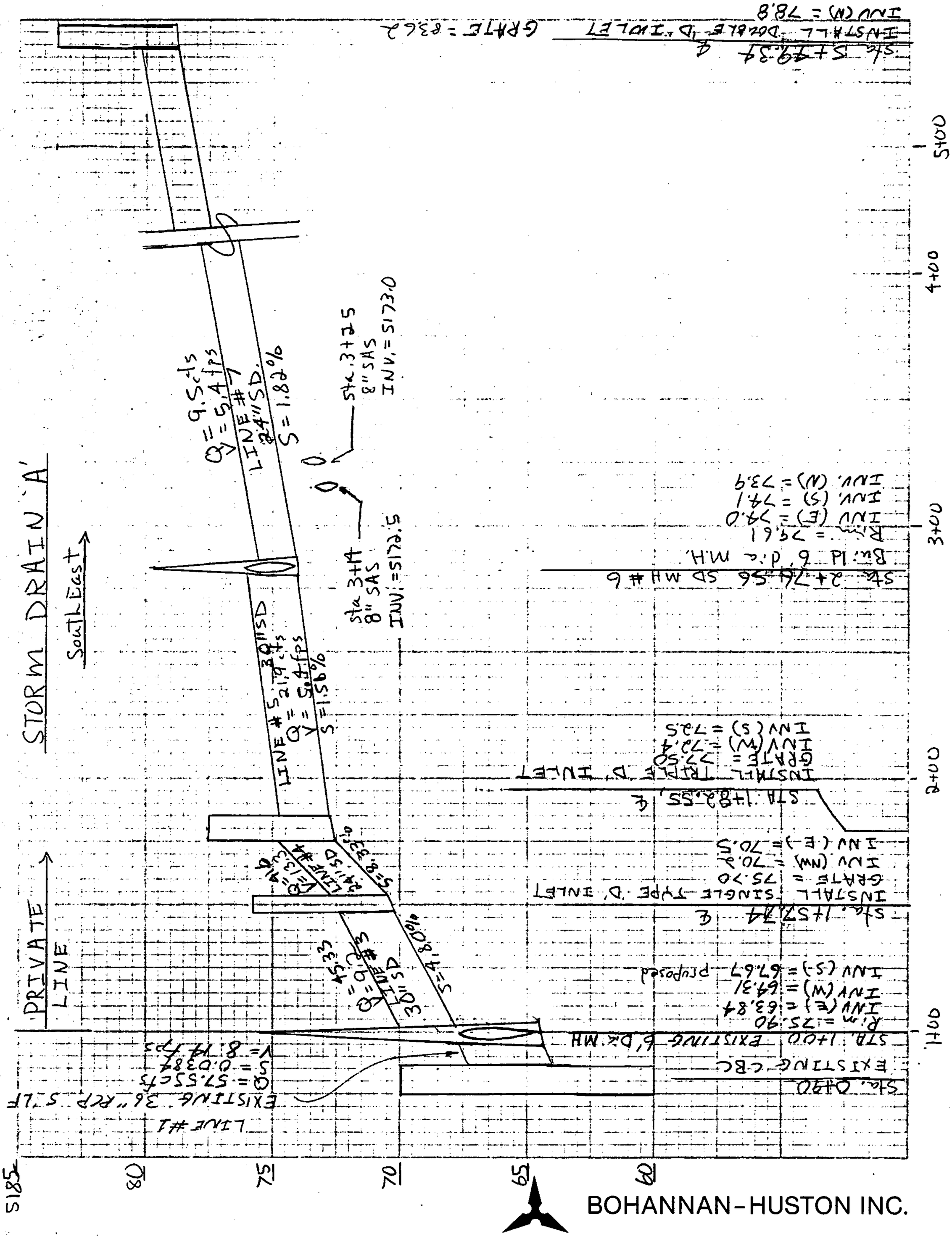
C*I(a)= 1.56
C*I(b)= 2.28
C*I(c)= 3.14
C*I(d)= 4.70

EXCESS PRECIPITATION (E) IN inches BY LAND TREATMENTS (TABLE A-8)

E(a)= 0.53
E(b)= 0.78
E(c)= 1.13
E(d)= 2.12

APPENDIX II

STORM DRAIN "A" CALCULATIONS



BOHANNAN-HUSTON INC.

PROJECT NAME PAVILIONS SHEET ____ OF ____

PROJECT NO. C95220A2440 BY JCA DATE 6-26-96

SUBJECT ____ CH'D ____ DATE 1

PAVILIONS AT SAN MATEO

***** HYDRAULIC GRADE LINE CALCULATIONS FOR STORM LINE 'A' *****

06/27/96

FROM:: EXISTING CBC

TO:: PRIVATE INLET NUMBER 12

Station	Structure	Diam.	Q	Area	Vel.	K	Sf	Length	MH Dia.	JNCT Angle	Hf	Hb	Hj	Hmh	Ht	Total Losses	HGL(dn)	HGL(up)	Low Point	HV	EGL(dn)	EGL(up)
0+90	EXIST CBC								0.00	0.00		0.00	0.00	0.00	0.00	0.00	5166.80	5166.80	5170.00	1.03	5167.83	5167.83
		36	57.6	7.07	8.15	667	0.0075	10.00			0.07					0.07						
1+00	EXST. MH								6.00	0.00		0.00	0.54	0.00	0.00	0.54	5166.87	**5167.12**	5175.40	1.32	5167.91	5168.45
		30	45.3	4.91	9.23	410	0.0122	57.70			0.70					0.70						
1+58	INLET #9								0.00	0.00		0.00	0.00	0.00	0.05	0.05	5167.83	**5166.48**	5175.70	2.72	5169.15	5169.20
		24	41.6	3.14	13.24	226	0.0338	24.80			0.84					0.84						
1+82.5	INLET #10								0.00	0.00		0.00	0.00	0.00	0.12	0.12	5167.32	**5169.85**	5177.50	0.31	5170.04	5170.16
		30	21.9	4.91	4.46	410	0.0029	94.00			0.27					0.27						
2+76.5	MH #6								6.00	0.00		0.00	0.27	0.00	0.06	0.33	5170.12	**5170.76**	5179.30	0.00	5170.43	5170.76
		24	9.5	3.14	3.02	226	0.0018	273.00			0.48					0.48						
2+76.5	INLET #11								0.00	0.00		0.00	0.00	0.00	0.00	0.00	5171.24	**5171.24**	5183.60	0.00	5171.24	5171.24
		24.00																				

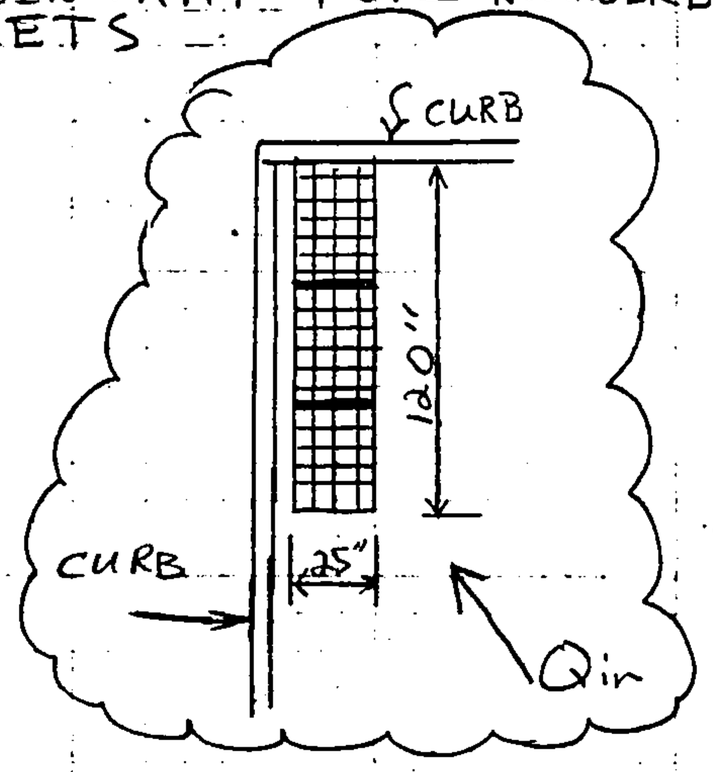
MANNINGS n 0.013

PAVILION HGL

25

STORM DRAIN 'A' INLET ANALYSIS

STORM DRAIN INLET # 10 (See BASIN MAP FOR NUMBERED INLETS)



Q_{in} = 40% BASIN 15 + 90% BASIN 13 = 6 + 9 = 15 cfs

FOR A TYPE 'D' TRIPLE SUMP INLET:

A_{grate} = 12.30 sf (net open area)

Perimeter of 2 sided grate = 12.08 LF

max head = 8" (Top of adjacent curb)

$Q_{orifice\text{-}grate} = 0.6 A \sqrt{2gh} = (0.6)(12.30)\sqrt{64.4(0.67)} = 98.5 > 15.0$ cfs

$Q_{weir\text{-}grate} = 3.3 Ph^{1.5} = (3.3)(12.08)(.67)^{1.5} = 21.86 > 15.0$ cfs

$Q_{orifice\ 24"\ outlet} = 0.6 A \sqrt{2gh} = 0.6(3.14)\sqrt{64.4(5.67)} = 36.02 > 15.0$ cfs

USE TRIPLE 'D' INLET with 8" CURB.

STORM DRAIN INLET # 9 Refer to BASIN MAP

Q_{in} = BASIN 12 + 10% BASIN 13 = 2.4 + 1.0 cfs = 3.4 cfs

FOR A TYPE 'SINGLE D' INLET

A_{grate} = 4.10 sf (open area)

Perimeter = 5.5 LF.

max head = .5' Adjacent Curb

$Q_{orifice\text{-}grate} = 0.6 A \sqrt{2gh} = 0.6(4.10)\sqrt{64.4(.5)} = 14.0 > 3.4$ cfs

$Q_{weir\text{-}grate} = 3.3 Ph^{1.5} = 3.3(5.5)(.50)^{1.5} = 6.42 > 3.4$ cfs

$Q_{24"\ pipe} = 0.6 A \sqrt{2gh} = 0.6(3.14)\sqrt{64.4(5.5)} = 35.57 > 3.4$ cfs

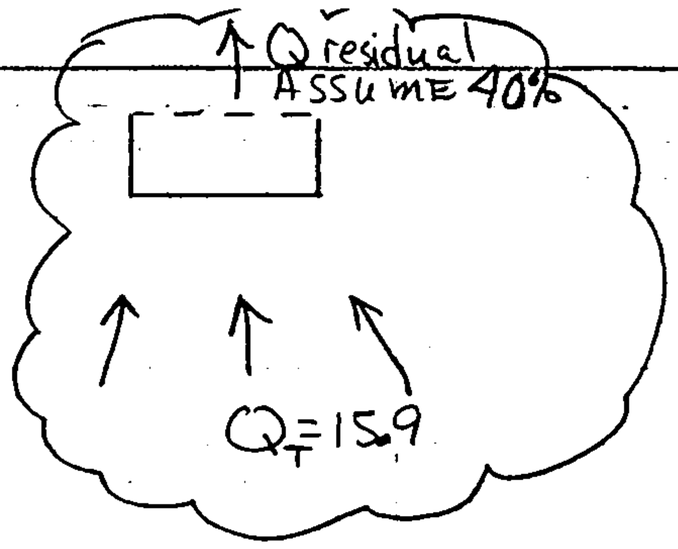
BOHANNAN-HUSTON INC.

PROJECT NAME PAVILIONS SHEET ____ OF ____

PROJECT NO. ____ BY JCA DATE 6-25-96

SUBJECT ____ CH'D ____ DATE 3

STORM DRAIN INLET #11



Q_{in} = 60% BASIN 15 = 60% (15.9) = 9.5 cfs

FOR A TYPE 'SINGLE D' INLET

A_{grate} = 4.10 sf (net open area)

Perimeter of grate = 7.5 LF (3 sided)

max head = 1'

$Q_{orifice\text{-}grate} = 0.6 A \sqrt{2gh} = (0.6)(4.10)\sqrt{64.4(1)} = 19.74 > 9.5$ cfs.

$Q_{weir\text{-}grate} = 3.3 Ph^{1.5} = 3.3(7.5)(1)^{1.5} = 24.75$ cfs > 9.5 cfs

$Q_{18"pipe} = 0.6 A_p \sqrt{2gh} = 0.6(1.77)\sqrt{64.4(5.8)} = 20.53 > 9.5$ cfs

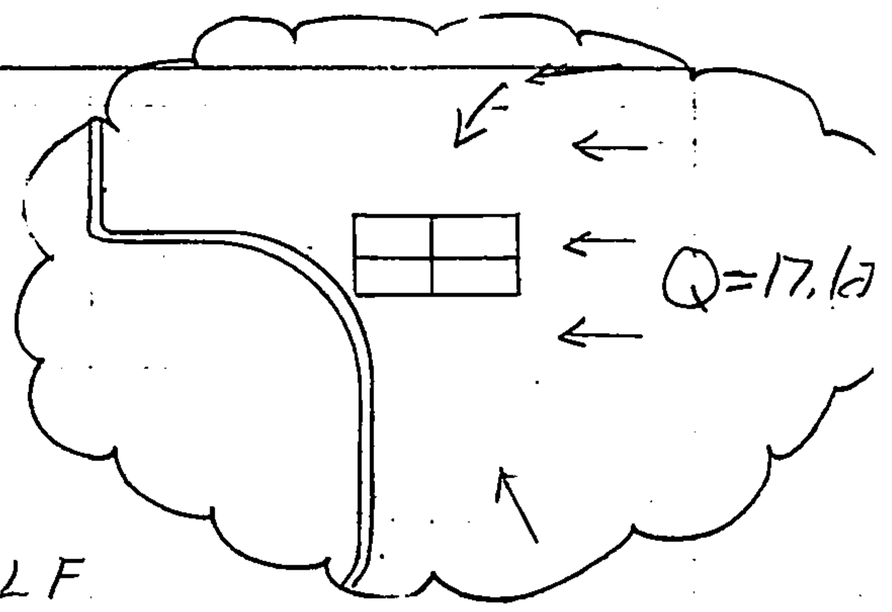
BOHANNAN-HUSTON INC.

PROJECT NAME PAVILIONS SHEET ____ OF ____

PROJECT NO. ____ BY JCA DATE 6-25-96

SUBJECT ____ CH'D ____ DATE 4

STORM DRAIN INLET # 12



Q_{in} = BASIN # 14 = 17.1 cfs

FOR A TYPE DBL 'D' SUMP INLET

A_{grate} = 8.20 (net open area)

Perimeter of grate (4 sided) = 17.5 LF

max. head = .5' (adjacent curb.)

$Q_{orifice\text{-}grate} = 0.6 A \sqrt{2gh} = 0.6\,(8.20)\sqrt{64.4\,(.5)} = 27.92 > 17.1$ cfs

$Q_{weir} = 3.3\,Ph^{1.5} = 3.3\,(17.50)\,(.5)^{1.5} = 20.4$ cfs > 17.1 cfs

$Q_{24"\ outlet} = 0.6 A \sqrt{2gh} = 0.6\,(3.14)\sqrt{64.4\,(6)} = 37.1 > 17.1$ cfs

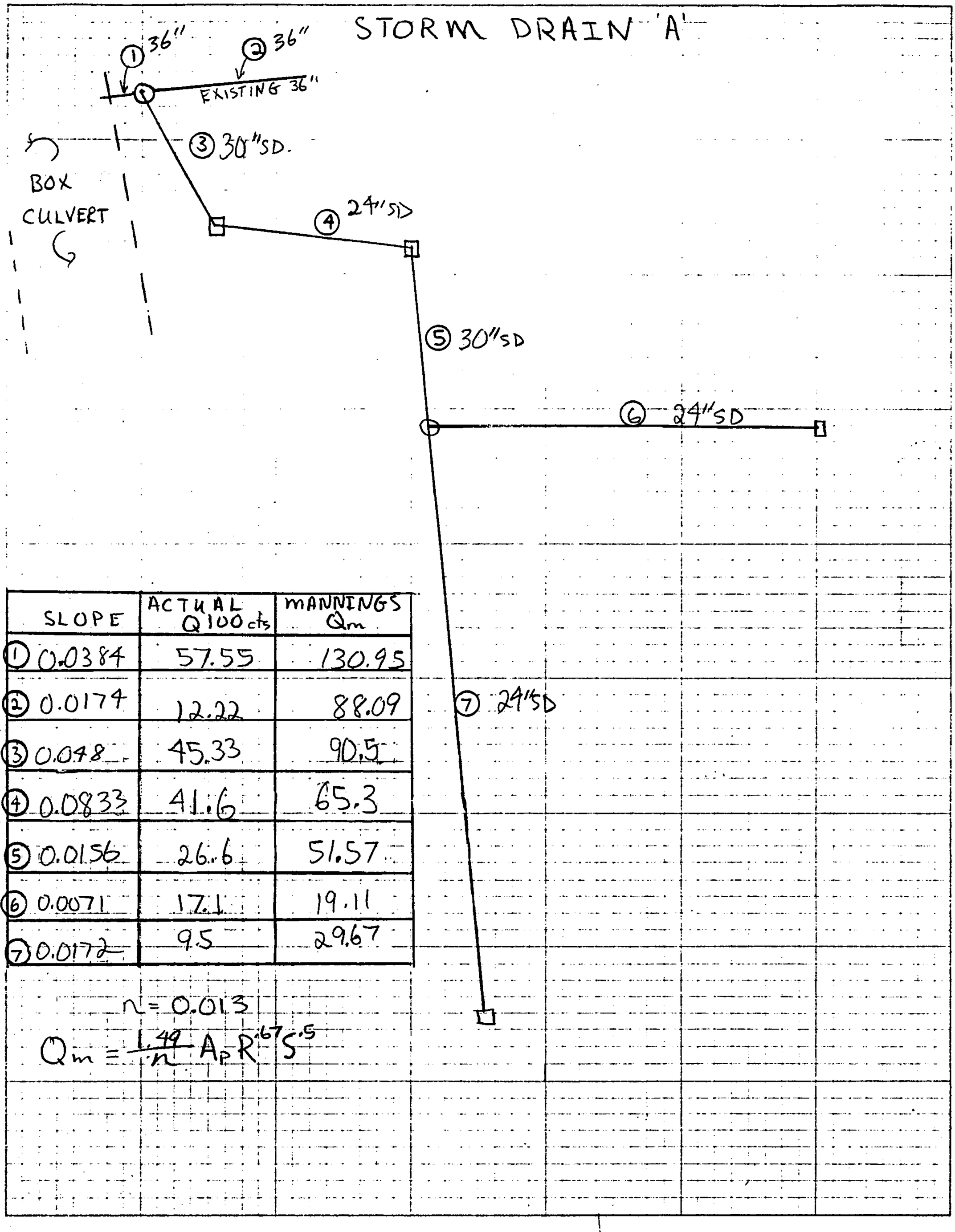
BOHANNAN-HUSTON INC.

PROJECT NAME _____ SHEET _____ OF _____

PROJECT NO. _____ BY JCA DATE 6-25-96

SUBJECT _____ CH'D _____ DATE 5

STORM DRAIN 'A'



		SLOPE	ACTUAL Q100 cfs	MANNINGS Qm
EXISTING	①	0.0384	57.55	130.95
	②	0.0174	12.22	88.09
PROPOSED PRIVATE	③	0.048	45.33	90.5
	④	0.0833	41.6	65.3
	⑤	0.0156	26.6	51.57
	⑥	0.0071	17.1	19.11
	⑦	0.0172	9.5	29.67

$n = 0.013$

$$Q_m = \frac{1.49}{n} A_p R^{.67} S^{.5}$$

BOHANNAN-HUSTON INC.

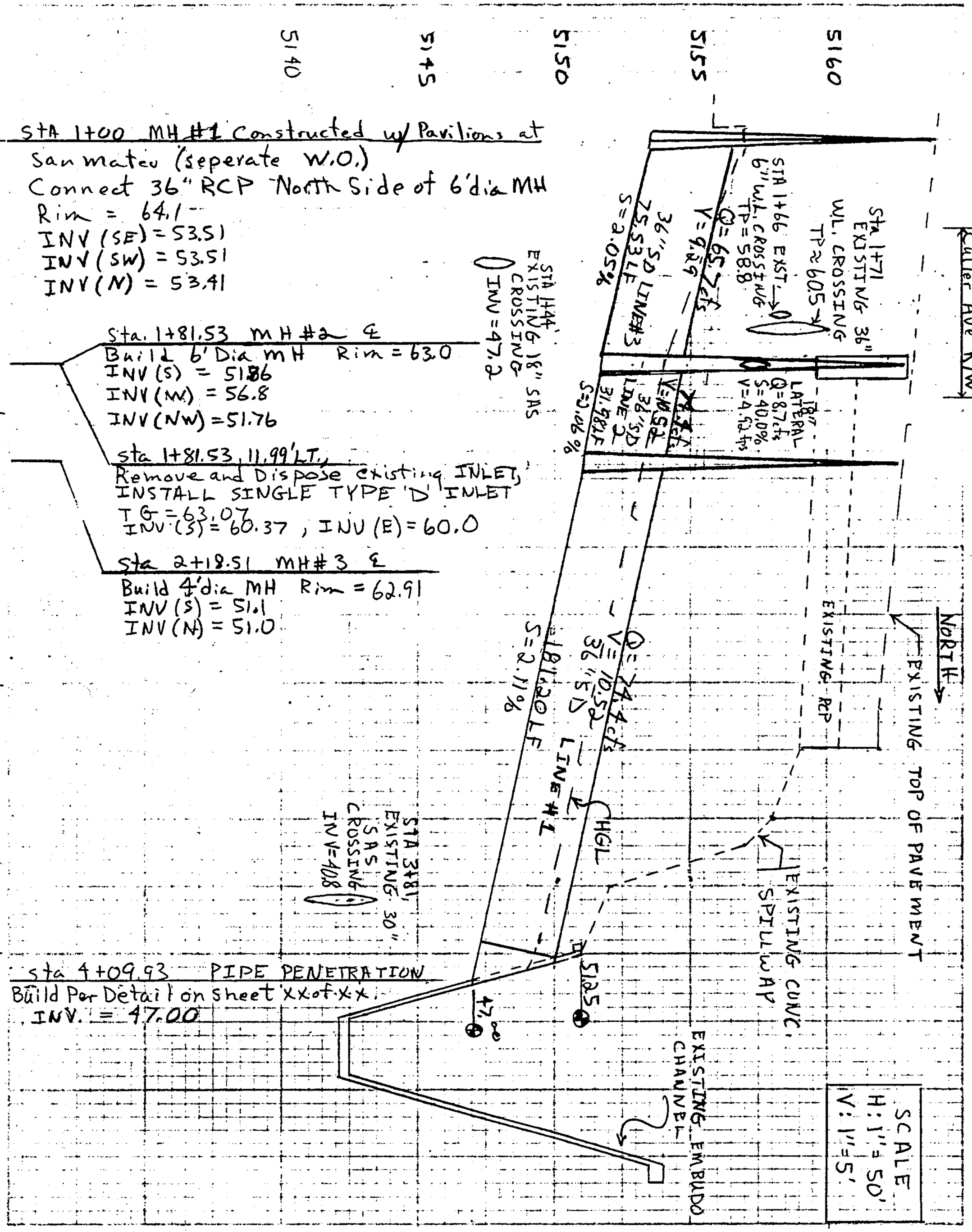
PROJECT NAME PAVILIONS SHEET ____ OF ____

PROJECT NO. C95210A2440 BY JCA DATE 6-26-96

SUBJECT ____ CH'D ____ DATE 6

APPENDIX III

STORM DRAIN "B" CALCULATIONS



BOHANNAN-HUSTON INC.

PROJECT NAME PAVILIONS SHEET ____ OF ____

PROJECT NO. 95220A2440 BY JCA DATE 6-26-96

SUBJECT STORM DRAIN 'B' CH'D ____ DATE 1

PAVILIONS AT SAN MATEO

***** HYDRAULIC GRADE LINE CALCULATIONS FOR STORM LINE 'B' *****

06/26/96

FROM:: MH @ STA. 1+00

TO:: OUT FALL AT EMBUDO CHANNEL

Station	Structure	Diam.	Q	Area	Vel.	K	Sf	Length	MH Dia.	JNCT Angle	Hf	Hb	Hj	Hmh	Ht	Total Losses	HGL(dn)	HGL(up)	Low Point	HV	EGL(dn)	EGL(up)
4+10	OUT FALL								0.00	0.00		0.00	0.00	0.00	0.00	0.00	5148.98	**5148.98**	5150.00	1.72	5150.70	5150.70
		36	74.4	7.07	10.53	667	0.0124	181.00			2.25					2.25						
2+18.5	MH #3								4.00	165.00		0.47	0.00	0.09	0.00	0.55	5151.23	**5151.78**	5162.90	1.72	5152.95	5153.50
		36	74.4	7.07	10.53	667	0.0124	32.00			0.40					0.40						
1+81.5	MH #2								6.00	15.00		0.12	0.45	0.00	0.00	0.57	5152.18	**5153.13**	5163.00	1.34	5153.90	5154.47
		36	65.7	7.07	9.29	667	0.0097	75.50			0.73					0.73						
1+00	MH #1								6.00	70.00		0.06	2.22	0.00	0.00	2.28	5153.86	**5157.48**	5164.10	0.00	5155.20	5157.48
		36																				

MANNINGS n 0.013

PAVILION HGL

STORM DRAIN 'B' INLET ANALYSIS

(see Basin Map for numbered inlets)

STORM DRAIN INLET # 1

Q_{in} = BASIN 1 = 7.3 cfs

FOR A TYPE 'D' DBL - SUMP INLET :

A_{grate} = 8.20 sf (net open area)

Perimeter of grate = 17.5 LF

max head = 1.5' Top of adjust curb.

$Q_{orifice-grate} = 0.6 A\sqrt{2gh} = (0.6)\,8.20\sqrt{64.4(1.5)} = 48.4$ cfs > 7.3 cfs

$Q_{weir-grate} = 3.3\,Ph^{1.5} = 3.3\,(17.5)(1.5)^{1.5} = 106.1$ > 7.3 cfs

$Q_{18"pipe} = 0.6 A\sqrt{2gh} = 0.6\,(1.77)\sqrt{64.4 \cdot 8.5} = 24.85$ > 7.3 cfs

STORM DRAIN INLET # 2

Q_{in} = BASIN 6 + 10% BASIN 11 = 5.0 + 0.5 = 5.5 cfs

FOR A TYPE 'D' DBL - SUMP INLET :

A_{grate} = 8.20 sf (net open area)

Perimeter of grate = 17.5 LF

max head = 1.5' To Adjacent curb.

$Q_{orifice-grate} = 0.6A\sqrt{2gh} = (0.6)\,8.20\sqrt{64.4(1.5)} = 48.4$ > 5.5 cfs

$Q_{weir-grate} = 3.3\,Ph^{1.5} = 3.3\,(17.5)(1.5^{1.5}) = 106.1$ > 5.5 cfs

$Q_{18"Pipe} = 0.6 A\sqrt{2gh} = 0.6\,(1.77)\sqrt{64.4\,(5)} = 19.1$ > 5.5 cfs

BOHANNAN-HUSTON INC.

PROJECT NAME PAVILIONS SHEET ____ OF ____

PROJECT NO. ____ BY JC A DATE 6-24-96

SUBJECT ____ CH'D ____ DATE 3

STORM DRAIN INLET #3

Q_{in} = BASIN 7 + 10% BASIN 11 = 3.1 + .5 = 3.6 cfs

FOR A TYPE 'SINGLE D' INLET (sump)

A_{grate} = 4.10 sF (net open area)

Perimeter of grate = 10.83 LF

max head = 1.0'

$Q_{orifice-grate} = 0.6 A \sqrt{2gh} = (0.6)(4.10)\sqrt{64.4(1.0)} = 19.7 cfs > 3.6 cfs$

$Q_{weir-grate} = 3.3 Ph^{1.5} = 3.3(10.83)(1)^{1.5} = 35.74 cfs > 3.6 cfs$

$Q_{36"pipe} = 0.6 A_p \sqrt{2gh} = 0.6(7.07)\sqrt{64.4\ 7.5} = 93.23 > 3.6 cfs$

STORM DRAIN INLET #4

Q_{in} = Worst Scenario = BASIN 8 + BASIN 11 = 12.6 + 4.7 = 17.3 cfs

FOR A TYPE 'SINGLE D' INLET (sump)

A_{grate} = 4.10 sF

Perimeter of grate = 10.83 LF

max head = 1.0'

$Q_{orifice-grate} = 0.6 A \sqrt{2gh} = (0.6)(4.10)\sqrt{64.4(1)} = 19.7 cfs > 17.3 cfs$

$Q_{weir-grate} = 3.3 Ph^{1.5} = 3.3(10.83)(1)^{1.5} = 35.74 cfs > 17.3 cfs$

$Q_{36'pipe} = 0.6 A_p \sqrt{2gh} = 0.6(7.07)\sqrt{64.4(7.5)} = 93.23 > 17.3 cfs$

qfi

BOHANNAN-HUSTON INC.

PROJECT NAME PAVILIONS SHEET ____ OF ____

PROJECT NO. ____ BY JCA DATE 6-25-96

SUBJECT ____ CH'D ____ DATE 4

STORM DRAIN INLET #5

Q_{in} = BASIN 4 + 10 cfs (existing) = 3.5 + 10 = 13.5 cfs

FOR A TYPE 'SINGLE D' SUMP INLET

A_{grate} = 4.10 sF (net open area)

Perimeter of grate = 10.83 LF

max head = 2.0"

$Q_{orifice\text{-}grate} = 0.6 A \sqrt{2gh} = (0.6)(4.10)\sqrt{64.4(2.0)} = 27.92 > 13.5$ cfs

$Q_{weir\text{-}grate} = 3.3 Ph^{1.5} = 3.3(10.83)(2)^{1.5} = 101.10$ cfs > 13.5 cfs

$Q_{24"pipe} = 0.6 A_p \sqrt{2gh} = 0.6(3.14)\sqrt{64.4 \cdot 7.5} = 41.42 > 13.5$ cfs

---

STORM DRAIN INLET #6

Q_{in} = BASIN 5 = 0.5 cfs

FOR A SLOTTED MANHOLE COVER (2' DIA LID)

A_{grate} = 1.5 sF

Perimeter of grate = 6.28 LF

max head = 0.5'

$Q_{orifice\text{-}grate} = 0.6 A \sqrt{2gh} = (0.6)(1.5)\sqrt{64.4(.5)} = 5.1$ cfs > 0.5 cfs

$Q_{weir\text{-}grate} = 3.3 Ph^{1.5} = 3.3(6.28)(.5)^{1.5} = 7.33$ cfs > 0.5 cfs

$Q_{24"pipe} = 0.6 A_p \sqrt{2gh} = 0.6(3.14)\sqrt{64.4 \cdot 16} = 37.1 > 0.5$ cfs

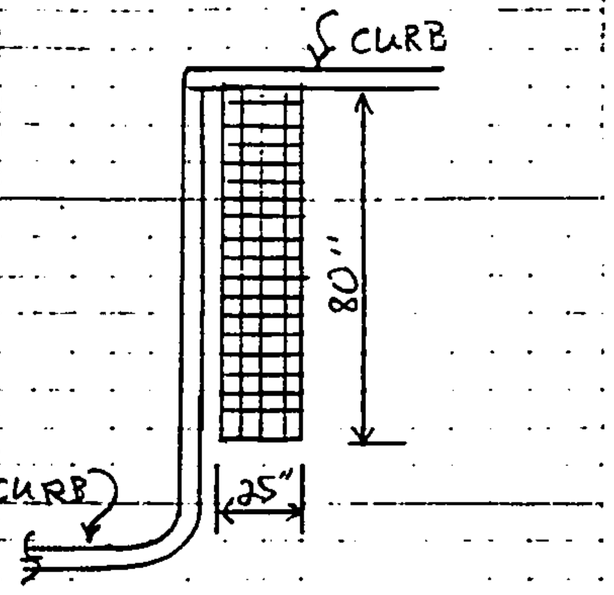
BOHANNAN-HUSTON INC.

PROJECT NAME PAVILIONS SHEET ____ OF ____

PROJECT NO. ____ BY JCA DATE 6-25-96

SUBJECT ____ CH'D ____ DATE 5

STORM DRAIN INLET #8.



Q_{in} = BASIN 10+11 = 9.4 + 4.7 = 14.1 cfs

FOR A TYPE 'D' DBL. SUMP INLET:

A_{grate} = 8.20 sf (net open area)

Perimeter of 2 sided grate = 8.75 LF

max head = 8" (Top of adjacent curb)

$Q_{orifice\text{-}grate} = 0.6 A \sqrt{2gh} = (0.6)(.820)\sqrt{64.4\,(0.67)} = 32.3 > 14.1$ cfs

$Q_{weir\text{-}grate} = 3.3\,Ph^{1.5} = (3.3)(8.75)(.67)^{1.5} = 15.84 > 14.1$ cfs

$Q_{orfice\ 18"outlet} = 0.6A\sqrt{2gh} = 0.6\,(1.77)\sqrt{64.4\,(1.4)} = 17.05 > 14.1$ cfs

USE DOUBLE 'D' INLET with 8" CURB.

STORM DRAIN INLET #7

Q_{in} = Worst Scenario: If inlet #8 pluged up: BASINS 9+10+(11) = 0.2+9.4+3.7 = 13.3 (80%)

FOR A TYPE 'SINGLE C' SUMP INLET

A_{grate} = **4.10** sf (open area)

Perimeter = 7.50 LF

max head = 0.67 Adjacent Curb

$Q_{orifice\text{-}grate} = 0.6\,A\sqrt{2gh} = 0.6\,(4.10)\sqrt{64.4(.67)} = 16.16 > 13.3$ cfs

$Q_{weir\text{-}grate} = 3.3\,Ph^{1.5} = 3.3\,(7.50)(.67)^{1.5} = 13.57$ cfs > 13.3 cfs

$Q_{18"pipe} = 0.6\,A\sqrt{2gh} = 0.6\,(1.77)\sqrt{64.4\,(3.6)} = 16.11 > 13.3$ cfs

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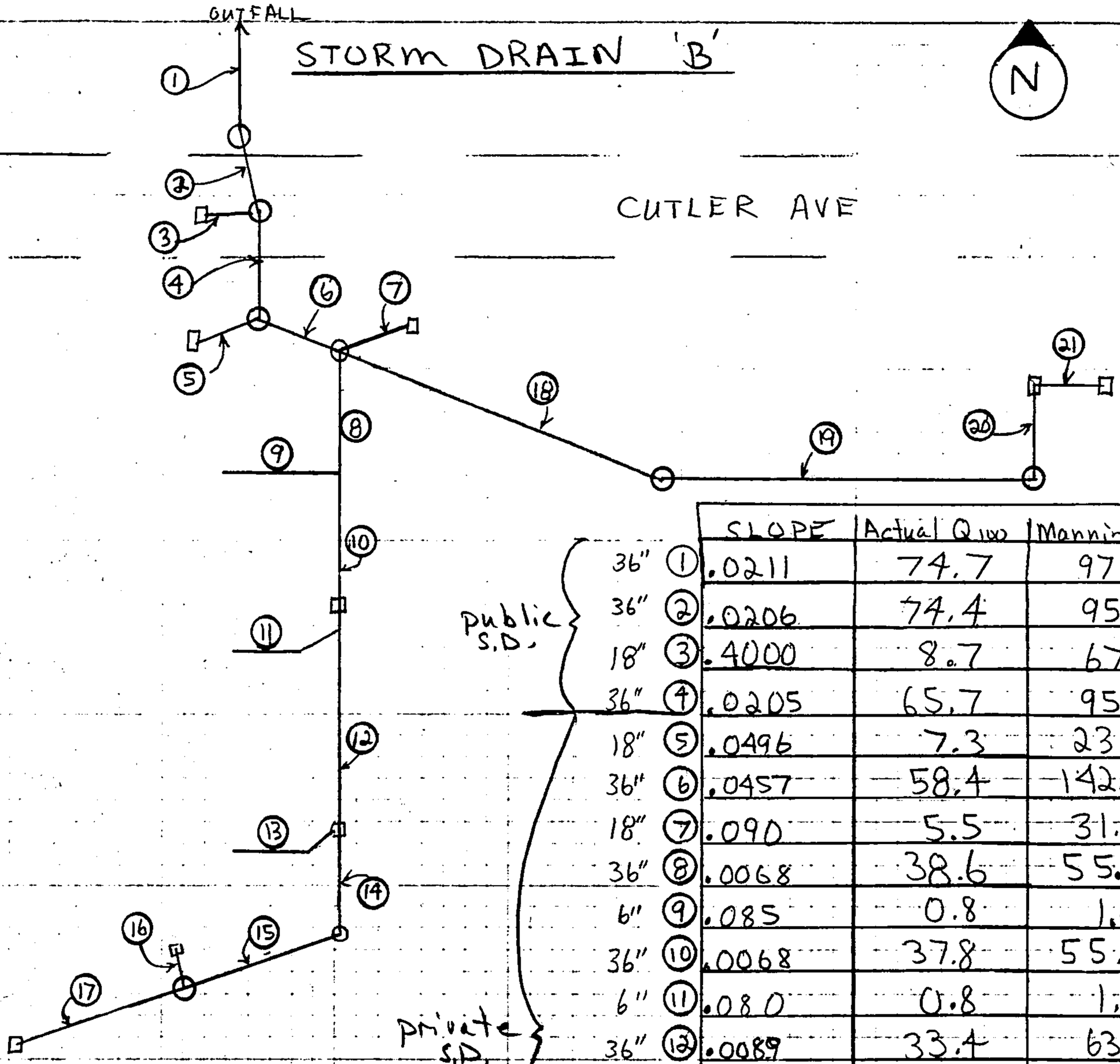
BOHANNAN-HUSTON INC.

PROJECT NAME PAVILIONS SHEET _____ OF _____

PROJECT NO. _____ BY JCA DATE 6-24-96

SUBJECT _____ CH'D _____ DATE 6

STORM DRAIN 'B'



		SLOPE	Actual Q100	Mannings Q
Public S.D.	36" ①	.0211	74.7	97.07
	36" ②	.0206	74.4	95.92
	18" ③	.4000	8.7	67.10
	36" ④	.0205	65.7	95.68
Private S.D.	18" ⑤	.0496	7.3	23.63
	36" ⑥	.0457	58.4	142.86
	18" ⑦	.090	5.5	31.83
	36" ⑧	.0068	38.6	55.11
	6" ⑨	.085	0.8	1.65
	36" ⑩	.0068	37.8	55.11
	6" ⑪	.080	0.8	1.60
	36" ⑫	.0089	33.4	63.20
	6" ⑬	.0740	0.8	1.52
	24" ⑭	.0060	15.3	17.52
	24" ⑮	.0053	14.8	16.47
	10" ⑯	.0061	1.3	1.70
	24" ⑰	.0133	13.5	23.00
	18" ⑱	.0393	14.3	21.03
	18" ⑲	.0254	14.3	16.91
	24" ⑳	.0050	14.3	15.99
	24" ㉑	.0103	14.1	22.96

n=.013

$$Q_m = \frac{1.49}{n} A R^{.67} S^{.5}$$

BOHANNAN-HUSTON INC.

PROJECT NAME Check Pipe Capacities SHEET _____ OF _____

PROJECT NO. PAVILIONS BY JCA DATE 6-25-96

SUBJECT _____ CH'D _____ DATE 7

@ Line #1

OUT-FALL AT EMBUDO CHANNEL Q_{100} see page 5 of 5

CULVERT RATING TABLE

36. INCH DIAMETER PIPE

N = 0.01300 INCREMENT = 0.10 SLOPE = 0.02110

FLOW DEPTH (IN)	FLOW AREA (SQ FT)	DISCHARGE (CFS)	VELOCITY (FPS)
0.10000	0.00175	0.00091	0.51989
0.20000	0.00496	0.00409	0.82498
0.30000	0.00910	0.00983	1.08031
0.40000	0.01400	0.01831	1.30770
0.50000	0.01956	0.02965	1.51617
0.60000	0.02569	0.04394	1.71068
0.70000	0.03234	0.06127	1.89421
0.80000	0.03948	0.08168	2.06880
0.90000	0.04707	0.10525	2.23583
1.00000	0.05509	0.13201	2.39644
1.10000	0.06350	0.16202	2.55141
1.20000	0.07229	0.19529	2.70140
1.30000	0.08145	0.23187	2.84695
1.40000	0.09094	0.27178	2.98849
1.50000	0.10077	0.31506	3.12638
1.60000	0.11092	0.36171	3.26093
1.70000	0.12138	0.41176	3.39241
1.80000	0.13213	0.46523	3.52102
1.90000	0.14317	0.52214	3.64699
2.00000	0.15449	0.58249	3.77048
2.10000	0.16607	0.64630	3.89164
2.20000	0.17792	0.71357	4.01061
2.30000	0.19002	0.78433	4.12751
2.40000	0.20237	0.85857	4.24247
2.50000	0.21497	0.93630	4.35556
2.60000	0.22779	1.01753	4.46689
2.70000	0.24085	1.10226	4.57653
2.80000	0.25413	1.19050	4.68458
2.90000	0.26763	1.28224	4.79108
3.00000	0.28134	1.37750	4.89612
3.10000	0.29527	1.47626	4.99973
3.20000	0.30940	1.57854	5.10199
3.30000	0.32372	1.68432	5.20294
3.40000	0.33825	1.79362	5.30263
3.50000	0.35297	1.90641	5.40110
3.60000	0.36787	2.02272	5.49840
3.70000	0.38297	2.14253	5.59456
3.80000	0.39824	2.26583	5.68961
3.90000	0.41369	2.39263	5.78360
4.00000	0.42932	2.52292	5.87655
4.10000	0.44512	2.65669	5.96849
4.20000	0.46109	2.79393	6.05946
4.30000	0.47722	2.93465	6.14948
4.40000	0.49352	3.07883	6.23857
4.50000	0.50997	3.22648	6.32676
4.60000	0.52659	3.37757	6.41407

FLOW DEPTH (IN)	FLOW AREA (SQ FT)	DISCHARGE (CFS)	VELOCITY (FPS)
4.70000	0.54336	3.53210	6.50053
4.80000	0.56028	3.69007	6.58614
4.90000	0.57735	3.85146	6.67094
5.00000	0.59457	4.01627	6.75495
5.10000	0.61193	4.18448	6.83817
5.20000	0.62944	4.35610	6.92063
5.30000	0.64708	4.53110	7.00234
5.40000	0.66487	4.70948	7.08332
5.50000	0.68279	4.89123	7.16358
5.60000	0.70085	5.07632	7.24314
5.70000	0.71903	5.26477	7.32201
5.80000	0.73735	5.45655	7.40021
5.90000	0.75580	5.65165	7.47774
6.00000	0.77437	5.85005	7.55462
6.10000	0.79306	6.05176	7.63087
6.20000	0.81188	6.25675	7.70648
6.30000	0.83082	6.46501	7.78148
6.40000	0.84988	6.67652	7.85587
6.50000	0.86905	6.89128	7.92966
6.60000	0.88834	7.10927	8.00286
6.70000	0.90775	7.33049	8.07549
6.80000	0.92726	7.55490	8.14755
6.90000	0.94689	7.78250	8.21905
7.00000	0.96662	8.01328	8.28999
7.10000	0.98646	8.24722	8.36039
7.20000	1.00641	8.48430	8.43025
7.30000	1.02646	8.72451	8.49959
7.40000	1.04662	8.96784	8.56840
7.50000	1.06687	9.21426	8.63670
7.60000	1.08723	9.46377	8.70449
7.70000	1.10768	9.71635	8.77179
7.79999	1.12823	9.97198	8.83858
7.89999	1.14888	10.23064	8.90489
7.99999	1.16962	10.49232	8.97071
8.09999	1.19045	10.75700	9.03606
8.20000	1.21138	11.02467	9.10094
8.30000	1.23239	11.29531	9.16536
8.40000	1.25350	11.56890	9.22931
8.50000	1.27469	11.84542	9.29281
8.60000	1.29596	12.12486	9.35586
8.70000	1.31733	12.40720	9.41847
8.80000	1.33877	12.69241	9.48063
8.90000	1.36030	12.98050	9.54237
9.00000	1.38191	13.27142	9.60367
9.10000	1.40360	13.56518	9.66454
9.20000	1.42537	13.86174	9.72499
9.30000	1.44722	14.16109	9.78503
9.40000	1.46914	14.46321	9.84465
9.50000	1.49114	14.76808	9.90387
9.60000	1.51322	15.07569	9.96267
9.70000	1.53536	15.38601	10.02108
9.80000	1.55758	15.69902	10.07909
9.90000	1.57987	16.01472	10.13670
10.00000	1.60223	16.33306	10.19392
10.10000	1.62466	16.65405	10.25076
10.20000	1.64716	16.97764	10.30721
10.30000	1.66973	17.30383	10.36328

FLOW DEPTH (IN)	FLOW AREA (SQ FT)	DISCHARGE (CFS)	VELOCITY (FPS)
10.40000	1.69236	17.63260	10.41897
10.50000	1.71505	17.96393	10.47429
10.60000	1.73781	18.29778	10.52923
10.70000	1.76063	18.63416	10.58381
10.80000	1.78351	18.97303	10.63802
10.90001	1.80645	19.31437	10.69187
11.00001	1.82946	19.65817	10.74536
11.10001	1.85252	20.00439	10.79849
11.20001	1.87564	20.35303	10.85126
11.30001	1.89881	20.70405	10.90369
11.40001	1.92204	21.05744	10.95576
11.50001	1.94533	21.41318	11.00748
11.60001	1.96867	21.77124	11.05886
11.70001	1.99206	22.13161	11.10990
11.80001	2.01551	22.49425	11.16059
11.90001	2.03900	22.85916	11.21095
12.00001	2.06255	23.22630	11.26097
12.10001	2.08614	23.59564	11.31066
12.20001	2.10978	23.96719	11.36002
12.30001	2.13347	24.34091	11.40904
12.40001	2.15721	24.71677	11.45774
12.50001	2.18099	25.09476	11.50611
12.60001	2.20482	25.47484	11.55416
12.70001	2.22869	25.85700	11.60189
12.80001	2.25260	26.24123	11.64929
12.90001	2.27656	26.62747	11.69638
13.00001	2.30055	27.01573	11.74314
13.10001	2.32459	27.40598	11.78960
13.20001	2.34866	27.79819	11.83574
13.30001	2.37278	28.19233	11.88157
13.40001	2.39693	28.58839	11.92709
13.50002	2.42112	28.98634	11.97229
13.60002	2.44534	29.38615	12.01720
13.70002	2.46960	29.78781	12.06179
13.80002	2.49389	30.19129	12.10608
13.90002	2.51822	30.59656	12.15007
14.00002	2.54258	31.00360	12.19376
14.10002	2.56697	31.41238	12.23715
14.20002	2.59139	31.82289	12.28023
14.30002	2.61584	32.23509	12.32302
14.40002	2.64032	32.64896	12.36552
14.50002	2.66483	33.06448	12.40772
14.60002	2.68937	33.48161	12.44962
14.70002	2.71393	33.90035	12.49123
14.80002	2.73852	34.32065	12.53255
14.90002	2.76313	34.74250	12.57358
15.00002	2.78777	35.16587	12.61432
15.10002	2.81244	35.59073	12.65477
15.20002	2.83712	36.01706	12.69494
15.30002	2.86183	36.44483	12.73482
15.40002	2.88655	36.87402	12.77441
15.50002	2.91130	37.30460	12.81372
15.60002	2.93607	37.73654	12.85274
15.70002	2.96085	38.16982	12.89149
15.80002	2.98566	38.60440	12.92995
15.90002	3.01048	39.04029	12.96813
16.00002	3.03532	39.47742	13.00603

FLOW DEPTH (IN)	FLOW AREA (SQ FT)	DISCHARGE (CFS)	VELOCITY (FPS)
16.10003	3.06017	39.91579	13.04365
16.20003	3.08504	40.35535	13.08099
16.30003	3.10992	40.79610	13.11806
16.40003	3.13481	41.23801	13.15485
16.50003	3.15972	41.68103	13.19137
16.60003	3.18464	42.12514	13.22760
16.70003	3.20957	42.57033	13.26357
16.80003	3.23451	43.01656	13.29926
16.90003	3.25946	43.46380	13.33468
17.00003	3.28441	43.91203	13.36982
17.10003	3.30938	44.36122	13.40469
17.20003	3.33435	44.81134	13.43929
17.30003	3.35933	45.26236	13.47363
17.40003	3.38431	45.71425	13.50769
17.50003	3.40930	46.16699	13.54148
17.60003	3.43429	46.62055	13.57500
17.70003	3.45929	47.07490	13.60826
17.80003	3.48429	47.53000	13.64124
17.90003	3.50929	47.98584	13.67396
18.00003	3.53429	48.44238	13.70641
18.10003	3.55929	48.89958	13.73860
18.20003	3.58428	49.35744	13.77051
18.30003	3.60928	49.81591	13.80217
18.40003	3.63428	50.27497	13.83355
18.50003	3.65927	50.73458	13.86468
18.60003	3.68426	51.19472	13.89553
18.70004	3.70924	51.65536	13.92612
18.80004	3.73422	52.11645	13.95645
18.90004	3.75919	52.57800	13.98652
19.00004	3.78416	53.03994	14.01632
19.10004	3.80911	53.50226	14.04585
19.20004	3.83406	53.96492	14.07513
19.30004	3.85900	54.42790	14.10414
19.40004	3.88393	54.89118	14.13289
19.50004	3.90885	55.35470	14.16137
19.60004	3.93376	55.81844	14.18960
19.70004	3.95865	56.28238	14.21756
19.80004	3.98353	56.74646	14.24526
19.90004	4.00840	57.21069	14.27269
20.00004	4.03325	57.67502	14.29987
20.10004	4.05809	58.13939	14.32678
20.20004	4.08291	58.60382	14.35343
20.30004	4.10772	59.06823	14.37982
20.40004	4.13250	59.53263	14.40595
20.50004	4.15727	59.99697	14.43182
20.60004	4.18202	60.46119	14.45742
20.70004	4.20675	60.92530	14.48277
20.80004	4.23145	61.38925	14.50785
20.90004	4.25614	61.85300	14.53267
21.00004	4.28080	62.31654	14.55722
21.10004	4.30544	62.77980	14.58152
21.20004	4.33005	63.24278	14.60555
21.30005	4.35464	63.70544	14.62932
21.40005	4.37920	64.16772	14.65283
21.50005	4.40374	64.62962	14.67608
21.60005	4.42825	65.09109	14.69906
21.70005	4.45273	65.55210	14.72178

FLOW DEPTH (IN)	FLOW AREA (SQ FT)	DISCHARGE (CFS)	VELOCITY (FPS)
21.80005	4.47718	66.01261	14.74424
21.90005	4.50160	66.47259	14.76643
22.00005	4.52599	66.93201	14.78836
22.10005	4.55035	67.39082	14.81003
22.20005	4.57468	67.84900	14.83143
22.30005	4.59897	68.30651	14.85256
22.40005	4.62323	68.76331	14.87344
22.50005	4.64745	69.21937	14.89404
22.60005	4.67164	69.67464	14.91438
22.70005	4.69579	70.12911	14.93445
22.80005	4.71991	70.58273	14.95426
22.90005	4.74398	71.03545	14.97380
23.00005	4.76802	71.48725	14.99307
23.10005	4.79201	71.93810	15.01208
23.20005	4.81597	72.38794	15.03082
23.30005	4.83988	72.83674	15.04928
23.40005	4.86375	73.28447	15.06748
23.50005	4.88758	73.73110	15.08541
23.60005	4.91136	74.17657	15.10306
23.70005	4.93510	74.62085	15.12044
23.80005	4.95879	75.06391	15.13756
23.90005	4.98243	75.50571	15.15439
24.00006	5.00602	75.94620	15.17096
24.10006	5.02957	76.38535	15.18725
24.20006	5.05307	76.82310	15.20327
24.30006	5.07651	77.25944	15.21900
24.40006	5.09990	77.69431	15.23447
24.50006	5.12324	78.12769	15.24965
24.60006	5.14653	78.55952	15.26456
24.70006	5.16976	78.98976	15.27919
24.80006	5.19294	79.41837	15.29353
24.90006	5.21606	79.84531	15.30760
25.00006	5.23912	80.27054	15.32138
25.10006	5.26212	80.69401	15.33488
25.20006	5.28506	81.11568	15.34809
25.30006	5.30795	81.53551	15.36103
25.40006	5.33077	81.95346	15.37367
25.50006	5.35353	82.36948	15.38602
25.60006	5.37622	82.78353	15.39809
25.70006	5.39885	83.19556	15.40986
25.80006	5.42142	83.60554	15.42135
25.90006	5.44391	84.01339	15.43254
26.00006	5.46634	84.41909	15.44343
26.10006	5.48870	84.82260	15.45403
26.20006	5.51099	85.22385	15.46433
26.30006	5.53321	85.62283	15.47434
26.40006	5.55536	86.01944	15.48404
26.50006	5.57744	86.41368	15.49344
26.60007	5.59944	86.80548	15.50254
26.70007	5.62136	87.19478	15.51133
26.80007	5.64321	87.58154	15.51981
26.90007	5.66498	87.96574	15.52799
27.00007	5.68667	88.34727	15.53585
27.10007	5.70828	88.72613	15.54341
27.20007	5.72981	89.10223	15.55065
27.30007	5.75126	89.47554	15.55757
27.40007	5.77262	89.84602	15.56417

$Q_{100} = 74.4$ cfs

LINE #8

NORMAL WATER DEPTH AT MAN HOLE #1

Q_{100} see page 3 of 3

CULVERT RATING TABLE

36. INCH DIAMETER PIPE

N = 0.01300 INCREMENT = 0.10 SLOPE = 0.04570

FLOW DEPTH (IN)	FLOW AREA (SQ FT)	DISCHARGE (CFS)	VELOCITY (FPS)
0.10000	0.00175	0.00134	0.76512
0.20000	0.00496	0.00602	1.21412
0.30000	0.00910	0.01447	1.58989
0.40000	0.01400	0.02695	1.92453
0.50000	0.01956	0.04364	2.23133
0.60000	0.02569	0.06467	2.51759
0.70000	0.03234	0.09016	2.78770
0.80000	0.03948	0.12021	3.04463
0.90000	0.04707	0.15490	3.29046
1.00000	0.05509	0.19428	3.52682
1.10000	0.06350	0.23844	3.75489
1.20000	0.07229	0.28741	3.97562
1.30000	0.08145	0.34124	4.18983
1.40000	0.09094	0.39998	4.39814
1.50000	0.10077	0.46367	4.60107
1.60000	0.11092	0.53233	4.79909
1.70000	0.12138	0.60599	4.99258
1.80000	0.13213	0.68468	5.18186
1.90000	0.14317	0.76842	5.36724
2.00000	0.15449	0.85724	5.54899
2.10000	0.16607	0.95115	5.72729
2.20000	0.17792	1.05016	5.90239
2.30000	0.19002	1.15429	6.07443
2.40000	0.20237	1.26355	6.24361
2.50000	0.21497	1.37794	6.41004
2.60000	0.22779	1.49749	6.57388
2.70000	0.24085	1.62218	6.73525
2.80000	0.25413	1.75205	6.89426
2.90000	0.26763	1.88706	7.05100
3.00000	0.28134	2.02725	7.20558
3.10000	0.29527	2.17260	7.35807
3.20000	0.30940	2.32312	7.50856
3.30000	0.32372	2.47880	7.65713
3.40000	0.33825	2.63965	7.80384
3.50000	0.35297	2.80565	7.94876
3.60000	0.36787	2.97682	8.09194
3.70000	0.38297	3.15314	8.23346
3.80000	0.39824	3.33461	8.37335
3.90000	0.41369	3.52121	8.51167
4.00000	0.42932	3.71296	8.64847
4.10000	0.44512	3.90982	8.78378
4.20000	0.46109	4.11181	8.91766
4.30000	0.47722	4.31890	9.05014
4.40000	0.49352	4.53109	9.18125
4.50000	0.50997	4.74838	9.31104
4.60000	0.52659	4.97074	9.43953

FLOW DEPTH (IN)	FLOW AREA (SQ FT)	DISCHARGE (CFS)	VELOCITY (FPS)
4.70000	0.54336	5.19816	9.56677
4.80000	0.56028	5.43064	9.69277
4.90000	0.57735	5.66816	9.81757
5.00000	0.59457	5.91071	9.94120
5.10000	0.61193	6.15827	10.06367
5.20000	0.62944	6.41084	10.18503
5.30000	0.64708	6.66839	10.30528
5.40000	0.66487	6.93090	10.42446
5.50000	0.68279	7.19838	10.54258
5.60000	0.70085	7.47078	10.65967
5.70000	0.71903	7.74812	10.77575
5.80000	0.73735	8.03036	10.89083
5.90000	0.75580	8.31748	11.00493
6.00000	0.77437	8.60948	11.11808
6.10000	0.79306	8.90633	11.23029
6.20000	0.81188	9.20800	11.34157
6.30000	0.83082	9.51450	11.45194
6.40000	0.84988	9.82578	11.56141
6.50000	0.86905	10.14185	11.67002
6.60000	0.88834	10.46266	11.77775
6.70000	0.90775	10.78822	11.88464
6.80000	0.92726	11.11848	11.99068
6.90000	0.94689	11.45345	12.09590
7.00000	0.96662	11.79308	12.20031
7.10000	0.98646	12.13736	12.30392
7.20000	1.00641	12.48627	12.40674
7.30000	1.02646	12.83979	12.50878
7.40000	1.04662	13.19789	12.61005
7.50000	1.06687	13.56055	12.71056
7.60000	1.08723	13.92776	12.81033
7.70000	1.10768	14.29947	12.90936
7.79999	1.12823	14.67568	13.00767
7.89999	1.14888	15.05635	13.10525
7.99999	1.16962	15.44146	13.20213
8.09999	1.19045	15.83099	13.29830
8.20000	1.21138	16.22492	13.39378
8.30000	1.23239	16.62321	13.48858
8.40000	1.25350	17.02585	13.58270
8.50000	1.27469	17.43281	13.67615
8.60000	1.29596	17.84405	13.76894
8.70000	1.31733	18.25957	13.86108
8.80000	1.33877	18.67932	13.95257
8.90000	1.36030	19.10329	14.04342
9.00000	1.38191	19.53144	14.13364
9.10000	1.40360	19.96376	14.22323
9.20000	1.42537	20.40020	14.31219
9.30000	1.44722	20.84076	14.40055
9.40000	1.46914	21.28539	14.48830
9.50000	1.49114	21.73407	14.57544
9.60000	1.51322	22.18677	14.66199
9.70000	1.53536	22.64347	14.74794
9.80000	1.55758	23.10413	14.83331
9.90000	1.57987	23.56872	14.91810
10.00000	1.60223	24.03723	15.00231
10.10000	1.62466	24.50962	15.08596
10.20000	1.64716	24.98586	15.16904
10.30000	1.66973	25.46591	15.25156

FLOW DEPTH (IN)	FLOW AREA (SQ FT)	DISCHARGE (CFS)	VELOCITY (FPS)
10.40000	1.69236	25.94976	15.33352
10.50000	1.71505	26.43736	15.41493
10.60000	1.73781	26.92870	15.49579
10.70000	1.76063	27.42375	15.57611
10.80000	1.78351	27.92245	15.65589
10.90001	1.80645	28.42481	15.73514
11.00001	1.82946	28.93077	15.81386
11.10001	1.85252	29.44030	15.89205
11.20001	1.87564	29.95339	15.96972
11.30001	1.89881	30.46999	16.04687
11.40001	1.92204	30.99007	16.12350
11.50001	1.94533	31.51360	16.19962
11.60001	1.96867	32.04056	16.27524
11.70001	1.99206	32.57091	16.35035
11.80001	2.01551	33.10460	16.42496
11.90001	2.03900	33.64164	16.49907
12.00001	2.06255	34.18195	16.57269
12.10001	2.08614	34.72552	16.64581
12.20001	2.10978	35.27232	16.71845
12.30001	2.13347	35.82232	16.79060
12.40001	2.15721	36.37547	16.86226
12.50001	2.18099	36.93175	16.93345
12.60001	2.20482	37.49112	17.00416
12.70001	2.22869	38.05354	17.07440
12.80001	2.25260	38.61900	17.14417
12.90001	2.27656	39.18744	17.21346
13.00001	2.30055	39.75883	17.28229
13.10001	2.32459	40.33316	17.35066
13.20001	2.34866	40.91036	17.41856
13.30001	2.37278	41.49043	17.48601
13.40001	2.39693	42.07330	17.55300
13.50002	2.42112	42.65896	17.61953
13.60002	2.44534	43.24736	17.68561
13.70002	2.46960	43.83848	17.75124
13.80002	2.49389	44.43228	17.81643
13.90002	2.51822	45.02871	17.88116
14.00002	2.54258	45.62774	17.94545
14.10002	2.56697	46.22934	18.00931
14.20002	2.59139	46.83348	18.07272
14.30002	2.61584	47.44012	18.13569
14.40002	2.64032	48.04921	18.19823
14.50002	2.66483	48.66073	18.26034
14.60002	2.68937	49.27462	18.32200
14.70002	2.71393	49.89087	18.38324
14.80002	2.73852	50.50942	18.44405
14.90002	2.76313	51.13025	18.50444
15.00002	2.78777	51.75332	18.56439
15.10002	2.81244	52.37859	18.62393
15.20002	2.83712	53.00602	18.68304
15.30002	2.86183	53.63556	18.74172
15.40002	2.88655	54.26719	18.79999
15.50002	2.91130	54.90087	18.85784
15.60002	2.93607	55.53655	18.91528
15.70002	2.96085	56.17420	18.97229
15.80002	2.98566	56.81379	19.02890
15.90002	3.01048	57.45528	19.08509
16.00002	3.03532	58.09860	19.14087

$Q_{100} = 58.4$ cfs

LINE #6

WATER DEPTH AT MH #2- 36" LINE

CULVERT RATING TABLE Q100 see page

36. INCH DIAMETER PIPE

N = 0.01300 INCREMENT = 0.10 SLOPE = 0.00680

FLOW DEPTH (IN)	FLOW AREA (SQ FT)	DISCHARGE (CFS)	VELOCITY (FPS)
0.10000	0.00175	0.00052	0.29514
0.20000	0.00496	0.00232	0.46833
0.30000	0.00910	0.00558	0.61329
0.40000	0.01400	0.01040	0.74237
0.50000	0.01956	0.01683	0.86072
0.60000	0.02569	0.02495	0.97114
0.70000	0.03234	0.03478	1.07533
0.80000	0.03948	0.04637	1.17444
0.90000	0.04707	0.05975	1.26927
1.00000	0.05509	0.07494	1.36044
1.10000	0.06350	0.09198	1.44842
1.20000	0.07229	0.11086	1.53356
1.30000	0.08145	0.13163	1.61619
1.40000	0.09094	0.15429	1.69654
1.50000	0.10077	0.17886	1.77482
1.60000	0.11092	0.20534	1.85121
1.70000	0.12138	0.23376	1.92585
1.80000	0.13213	0.26411	1.99886
1.90000	0.14317	0.29641	2.07037
2.00000	0.15449	0.33067	2.14047
2.10000	0.16607	0.36690	2.20925
2.20000	0.17792	0.40509	2.27679
2.30000	0.19002	0.44526	2.34316
2.40000	0.20237	0.48740	2.40842
2.50000	0.21497	0.53153	2.47262
2.60000	0.22779	0.57764	2.53582
2.70000	0.24085	0.62574	2.59806
2.80000	0.25413	0.67584	2.65940
2.90000	0.26763	0.72792	2.71986
3.00000	0.28134	0.78199	2.77949
3.10000	0.29527	0.83806	2.83831
3.20000	0.30940	0.89612	2.89636
3.30000	0.32372	0.95618	2.95367
3.40000	0.33825	1.01822	3.01027
3.50000	0.35297	1.08226	3.06617
3.60000	0.36787	1.14828	3.12140
3.70000	0.38297	1.21630	3.17599
3.80000	0.39824	1.28630	3.22995
3.90000	0.41369	1.35828	3.28330
4.00000	0.42932	1.43224	3.33607
4.10000	0.44512	1.50818	3.38827
4.20000	0.46109	1.58610	3.43991
4.30000	0.47722	1.66598	3.49101
4.40000	0.49352	1.74783	3.54159
4.50000	0.50997	1.83165	3.59166
4.60000	0.52659	1.91742	3.64122

FLOW DEPTH (IN)	FLOW AREA (SQ FT)	DISCHARGE (CFS)	VELOCITY (FPS)
4.70000	0.54336	2.00515	3.69030
4.80000	0.56028	2.09482	3.73890
4.90000	0.57735	2.18645	3.78704
5.00000	0.59457	2.28001	3.83473
5.10000	0.61193	2.37550	3.88198
5.20000	0.62944	2.47293	3.92879
5.30000	0.64708	2.57227	3.97518
5.40000	0.66487	2.67354	4.02115
5.50000	0.68279	2.77671	4.06671
5.60000	0.70085	2.88179	4.11188
5.70000	0.71903	2.98877	4.15665
5.80000	0.73735	3.09764	4.20105
5.90000	0.75580	3.20840	4.24506
6.00000	0.77437	3.32103	4.28870
6.10000	0.79306	3.43554	4.33199
6.20000	0.81188	3.55191	4.37491
6.30000	0.83082	3.67014	4.41749
6.40000	0.84988	3.79021	4.45972
6.50000	0.86905	3.91213	4.50161
6.60000	0.88834	4.03588	4.54317
6.70000	0.90775	4.16146	4.58440
6.80000	0.92726	4.28886	4.62530
6.90000	0.94689	4.41807	4.66589
7.00000	0.96662	4.54908	4.70617
7.10000	0.98646	4.68188	4.74613
7.20000	1.00641	4.81647	4.78579
7.30000	1.02646	4.95284	4.82515
7.40000	1.04662	5.09097	4.86422
7.50000	1.06687	5.23087	4.90299
7.60000	1.08723	5.37251	4.94148
7.70000	1.10768	5.51590	4.97968
7.79999	1.12823	5.66102	5.01760
7.89999	1.14888	5.80786	5.05524
7.99999	1.16962	5.95641	5.09261
8.09999	1.19045	6.10667	5.12971
8.20000	1.21138	6.25863	5.16654
8.30000	1.23239	6.41226	5.20310
8.40000	1.25350	6.56758	5.23941
8.50000	1.27469	6.72456	5.27546
8.60000	1.29596	6.88319	5.31125
8.70000	1.31733	7.04347	5.34679
8.80000	1.33877	7.20539	5.38209
8.90000	1.36030	7.36893	5.41713
9.00000	1.38191	7.53409	5.45193
9.10000	1.40360	7.70085	5.48649
9.20000	1.42537	7.86920	5.52081
9.30000	1.44722	8.03914	5.55489
9.40000	1.46914	8.21066	5.58874
9.50000	1.49114	8.38373	5.62235
9.60000	1.51322	8.55836	5.65574
9.70000	1.53536	8.73452	5.68889
9.80000	1.55758	8.91222	5.72182
9.90000	1.57987	9.09144	5.75453
10.00000	1.60223	9.27216	5.78702
10.10000	1.62466	9.45438	5.81928
10.20000	1.64716	9.63808	5.85133
10.30000	1.66973	9.82326	5.88316

FLOW DEPTH (IN)	FLOW AREA (SQ FT)	DISCHARGE (CFS)	VELOCITY (FPS)
10.40000	1.69236	10.00990	5.91477
10.50000	1.71505	10.19799	5.94618
10.60000	1.73781	10.38752	5.97737
10.70000	1.76063	10.57848	6.00835
10.80000	1.78351	10.77085	6.03913
10.90001	1.80645	10.96463	6.06970
11.00001	1.82946	11.15980	6.10006
11.10001	1.85252	11.35635	6.13022
11.20001	1.87564	11.55426	6.16018
11.30001	1.89881	11.75354	6.18994
11.40001	1.92204	11.95415	6.21950
11.50001	1.94533	12.15610	6.24887
11.60001	1.96867	12.35938	6.27804
11.70001	1.99206	12.56395	6.30701
11.80001	2.01551	12.76982	6.33579
11.90001	2.03900	12.97698	6.36438
12.00001	2.06255	13.18540	6.39277
12.10001	2.08614	13.39507	6.42098
12.20001	2.10978	13.60600	6.44900
12.30001	2.13347	13.81815	6.47683
12.40001	2.15721	14.03153	6.50447
12.50001	2.18099	14.24611	6.53194
12.60001	2.20482	14.46188	6.55921
12.70001	2.22869	14.67883	6.58630
12.80001	2.25260	14.89695	6.61322
12.90001	2.27656	15.11622	6.63995
13.00001	2.30055	15.33663	6.66650
13.10001	2.32459	15.55817	6.69287
13.20001	2.34866	15.78082	6.71906
13.30001	2.37278	16.00458	6.74508
13.40001	2.39693	16.22942	6.77092
13.50002	2.42112	16.45533	6.79658
13.60002	2.44534	16.68230	6.82207
13.70002	2.46960	16.91032	6.84739
13.80002	2.49389	17.13937	6.87253
13.90002	2.51822	17.36944	6.89751
14.00002	2.54258	17.60051	6.92231
14.10002	2.56697	17.83257	6.94694
14.20002	2.59139	18.06562	6.97140
14.30002	2.61584	18.29962	6.99569
14.40002	2.64032	18.53457	7.01981
14.50002	2.66483	18.77046	7.04377
14.60002	2.68937	19.00727	7.06756
14.70002	2.71393	19.24498	7.09118
14.80002	2.73852	19.48358	7.11464
14.90002	2.76313	19.72306	7.13793
15.00002	2.78777	19.96340	7.16106
15.10002	2.81244	20.20460	7.18402
15.20002	2.83712	20.44662	7.20682
15.30002	2.86183	20.68946	7.22946
15.40002	2.88655	20.93311	7.25194
15.50002	2.91130	21.17754	7.27425
15.60002	2.93607	21.42275	7.29641
15.70002	2.96085	21.66872	7.31840
15.80002	2.98566	21.91544	7.34024
15.90002	3.01048	22.16288	7.36191
16.00002	3.03532	22.41104	7.38343

FLOW DEPTH (IN)	FLOW AREA (SQ FT)	DISCHARGE (CFS)	VELOCITY (FPS)
16.10003	3.06017	22.65989	7.40478
16.20003	3.08504	22.90944	7.42598
16.30003	3.10992	23.15965	7.44703
16.40003	3.13481	23.41051	7.46791
16.50003	3.15972	23.66201	7.48864
16.60003	3.18464	23.91413	7.50921
16.70003	3.20957	24.16686	7.52963
16.80003	3.23451	24.42019	7.54989
16.90003	3.25946	24.67408	7.57000
17.00003	3.28441	24.92854	7.58995
17.10003	3.30938	25.18354	7.60975
17.20003	3.33435	25.43906	7.62939
17.30003	3.35933	25.69511	7.64888
17.40003	3.38431	25.95164	7.66822
17.50003	3.40930	26.20866	7.68740
17.60003	3.43429	26.46614	7.70643
17.70003	3.45929	26.72407	7.72531
17.80003	3.48429	26.98243	7.74403
17.90003	3.50929	27.24121	7.76261
18.00003	3.53429	27.50038	7.78103
18.10003	3.55929	27.75993	7.79930
18.20003	3.58428	28.01986	7.81742
18.30003	3.60928	28.28012	7.83539
18.40003	3.63428	28.54073	7.85321
18.50003	3.65927	28.80165	7.87087
18.60003	3.68426	29.06286	7.88839
18.70004	3.70924	29.32436	7.90576
18.80004	3.73422	29.58613	7.92297
18.90004	3.75919	29.84814	7.94004
19.00004	3.78416	30.11038	7.95696
19.10004	3.80911	30.37284	7.97373
19.20004	3.83406	30.63549	7.99035
19.30004	3.85900	30.89832	8.00681
19.40004	3.88393	31.16131	8.02314
19.50004	3.90885	31.42446	8.03931
19.60004	3.93376	31.68772	8.05533
19.70004	3.95865	31.95109	8.07120
19.80004	3.98353	32.21455	8.08693
19.90004	4.00840	32.47808	8.10250
20.00004	4.03325	32.74168	8.11793
20.10004	4.05809	33.00530	8.13321
20.20004	4.08291	33.26896	8.14834
20.30004	4.10772	33.53260	8.16332
20.40004	4.13250	33.79623	8.17815
20.50004	4.15727	34.05984	8.19284
20.60004	4.18202	34.32337	8.20737
20.70004	4.20675	34.58685	8.22176
20.80004	4.23145	34.85022	8.23600
20.90004	4.25614	35.11349	8.25009
21.00004	4.28080	35.37664	8.26403
21.10004	4.30544	35.63963	8.27782
21.20004	4.33005	35.90246	8.29146
21.30005	4.35464	36.16511	8.30496
21.40005	4.37920	36.42754	8.31830
21.50005	4.40374	36.68976	8.33150
21.60005	4.42825	36.95173	8.34455
21.70005	4.45273	37.21345	8.35745

FLOW DEPTH (IN)	FLOW AREA (SQ FT)	DISCHARGE (CFS)	VELOCITY (FPS)
21.80005	4.47718	37.47487	8.37019
21.90005	4.50160	37.73600	8.38279
22.00005	4.52599	37.99680	8.39524
22.10005	4.55035	38.25727	8.40754
22.20005	4.57468	38.51738	8.41969
22.30005	4.59897	38.77710	8.43169
22.40005	4.62323	39.03642	8.44354
22.50005	4.64745	39.29532	8.45524
22.60005	4.67164	39.55378	8.46678
22.70005	4.69579	39.81178	8.47818
22.80005	4.71991	40.06929	8.48942
22.90005	4.74398	40.32630	8.50052
23.00005	4.76802	40.58278	8.51146
23.10005	4.79201	40.83872	8.52225
23.20005	4.81597	41.09410	8.53288
23.30005	4.83988	41.34888	8.54337
23.40005	4.86375	41.60305	8.55370
23.50005	4.88758	41.85660	8.56387
23.60005	4.91136	42.10949	8.57390
23.70005	4.93510	42.36170	8.58376
23.80005	4.95879	42.61323	8.59348
23.90005	4.98243	42.86403	8.60304
24.00006	5.00602	43.11409	8.61244
24.10006	5.02957	43.36340	8.62169
24.20006	5.05307	43.61191	8.63078
24.30006	5.07651	43.85961	8.63972
24.40006	5.09990	44.10649	8.64849
24.50006	5.12324	44.35252	8.65712
24.60006	5.14653	44.59766	8.66558
24.70006	5.16976	44.84190	8.67388
24.80006	5.19294	45.08522	8.68203
24.90006	5.21606	45.32759	8.69001
25.00006	5.23912	45.56899	8.69783
25.10006	5.26212	45.80939	8.70550
25.20006	5.28506	46.04877	8.71300
25.30006	5.30795	46.28711	8.72034
25.40006	5.33077	46.52437	8.72752
25.50006	5.35353	46.76054	8.73453
25.60006	5.37622	46.99560	8.74138
25.70006	5.39885	47.22951	8.74806
25.80006	5.42142	47.46224	8.75458
25.90006	5.44391	47.69378	8.76094
26.00006	5.46634	47.92409	8.76712
26.10006	5.48870	48.15316	8.77314
26.20006	5.51099	48.38095	8.77899
26.30006	5.53321	48.60744	8.78467
26.40006	5.55536	48.83260	8.79017
26.50006	5.57744	49.05641	8.79551
26.60007	5.59944	49.27883	8.80068
26.70007	5.62136	49.49983	8.80567
26.80007	5.64321	49.71940	8.81048
26.90007	5.66498	49.93750	8.81513
27.00007	5.68667	50.15409	8.81959
27.10007	5.70828	50.36916	8.82388
27.20007	5.72981	50.58267	8.82799
27.30007	5.75126	50.79461	8.83191
27.40007	5.77262	51.00492	8.83566

$Q_{100} = 38.6$ cfs

APPENDIX IV

NMSH&TD LETTERS

RECEIVED BHI JUN 05 1996
File 95220A2440
cc: Don Glathorn
Larry Webb

NEW MEXICO STATE HIGHWAY
AND TRANSPORTATION DEPARTMENT
AN EQUAL OPPORTUNITY EMPLOYER

DISTRICT THREE OFFICE

June 3, 1996

Mr. James R. Topmiller, P.E.
Bohannan-Huston, Inc.
7500 Jefferson St., N.E.
Courtyard 1
Albuquerque, New Mexico 87109

Dear Mr. Topmiller:

This is in response to our meetings regarding the proposed retaining wall construction for the Pavilions at San Mateo along the right-of-way north of I-40 at the northwest corner with San Mateo. The discussion centered on the potential for the allowance of a work zone within the access control of I-40.

Beginning at the east end of the property in question, we will allow the work to be done as shown on Section C-C of the plans. The Department will allow the slope work within this area as long as the permanent fence is temporarily relocated while the work is performed, and replaced to its new permanent position after completion. No access will be allowed from the on-ramp westbound. All the work shall be done from inside the private property.

The District has chosen Alternate 2 for Section D-D of the plans at the west end of the property. The Department will allow the construction work zone within the access control line. The relocation of the existing fence will be allowed for the construction work and shall be relocated to its new permanent position after completion of the retaining wall. No access will be allowed from the interstate or the on-ramp westbound. All the work shall be done from inside the private property.

If we can be of further assistance please contact us at (505) 841-2700.

Sincerely,

ANTHONY LOPEZ
District Three Traffic Engineer

/al
xc: Michael Barnes
Steve Harris
Jim Cavness
Trino Gallegos

GARY E. JOHNSON
GOVERNOR

COMMISSION

Holm Bursum, III
Chairman, Socorro

Edward T. Begay
Vice-Chairman, Gallup

Peter T. Mocho, Sr.
Secretary, Albuquerque

Joe M. Anaya
Member, Stanley

Albert N. Sanchez
Member, Santa Rosa

Sidney G. Strebeck
Member, Clovis

DEPARTMENT

Secretary
Pete K. Rahn

General Office
P.O. Box 1149
Santa Fe, N.M.
87504-1149
505-827-5100

District One Office
P.O. Box 231
Deming, N.M.
88031-0231
505-546-2603

District Two Office
P.O. Box 1457
Roswell, N.M.
88202-1457
505-624-3300

District Three Office
P.O. Box 91750
Albuquerque, N.M.
97199-1750
505-841-2700

District Four Office
P.O. Box 30
Las Vegas, N.M.
87701-0030
505-454-3600

District Five Office
P.O. Box 4127
Coronado Station
Santa Fe, N.M.
87502-4127
505-827-9500

District Six Office
P.O. Box 2159
Milan, N.M.
87021
505-285-6623

NEW MEXICO STATE HIGHWAY
AND TRANSPORTATION DEPARTMENT
AN EQUAL OPPORTUNITY EMPLOYER

GARY E. JOHNSON
GOVERNOR

COMMISSION

Holm Bursum, III
Chairman, Socorro

Edward T. Begay
Vice-Chairman, Gallup

Peter T. Mocho, Sr.
Secretary, Albuquerque

Joe M. Anaya
Member, Stanley

Albert N. Sanchez
Member, Santa Rosa

Sidney G. Strebeck
Member, Clovis

DEPARTMENT

Secretary
Pete K. Rahn

General Office
P.O. Box 1149
Santa Fe, N.M.
87504-1149
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Santa Fe, N.M.
87502-4127
505-827-9500

District Six Office
P.O. Box 2159
Milan, N.M.
87021
505-285-6623

May 3, 1996

City of Albuquerque
Planning Department
Albuquerque, New Mexico

Kitchell Development Company
1707 East Highland, Suite 100
Phoenix, Arizona 85016

RE: V-96-44/DRB-96-141

Ladies and Gentlemen:

Having recorded on May 1, 1996, Document Number 96049158, in Book 96-12, Pages 4871-4873, County of Bernalillo, a Drainage Easement in which the Albuquerque Metropolitan Arroyo Flood Control Authority (A.M.A.F.C.A.) is named as the benefited party, the New Mexico State Highway and Transportation Department ("NMSHTD") concurs in the vacation of the NMSHTD public right-of-way and vacation of a portion of public sewer and public utility easements for Tracts C & D, Netherwood Park Addition located on Cutler NE between Washington NE and San Mateo NE (H-17). NMSHTD has conveyed its interest in the land between Tracts C and D to the owner of those tracts, Pavilion Partners, L.L.C.

NEW MEXICO STATE HIGHWAY AND
TRANSPORTATION DEPARTMENT

By: _____
Pete K. Rahn, Secretary

/JC

XC : File

POCKET I

SHEET C1 OF 2

UNDEVELOPED (EXISTING) CONDITIONS MAP

POCKET II

SHEET 2 OF 2

DEVELOPED CONDITIONS BASIN MAP

POCKET III

PLAT OF TRACTS 1-7, PAVILIONS AT SAN MATEO

POCKET IV

GRADING/DRAINAGE PLAN (WEST PORTION OF SITE)

GRADING/DRAINAGE PLAN (EAST PORTION OF SITE)

CITY OF
Albuquerque

September 8,1998

John Alexander
Bohannan & Huston, Inc.
7500 Jefferson NE
Albuquerque New Mexico 87109

RE: ENGINEER CERTIFICATION FOR PAD 5 OF THE PAVILIONS AT SAN MATEO
(H17-D54) CERTIFICATION STATEMENT DATED 7/15/98

Dear Mr. Alexander:

Based on the information provided on your July 15,1998 submittal, Engineer Certification for the above referenced site is acceptable. .

If I can be of further assistance, please feel free to contact me at 924-3986.

C: Andrew Garcia
File

Sincerely

Bernie J. Montoya CE
Associate Engineer

CITY OF
Albuquerque

September 1,1998

Martin J. Chávez, Mayor

John Alexander
Bohannan & Huston, Inc.
7500 Jefferson NE
Albuquerque New Mexico 87109

RE: ENGINEER CERTIFICATION FOR PAD 5 OF THE PAVILIONS AT SAN MATEO
(H17-D54) CERTIFICATION STATEMENT DATED 7/15/98

Dear Mr. Alexander:

Based on the information provided on your July 15,1998 submittal, Engineer Certification for the above referenced site is acceptable.

If I can be of further assistance, please feel free to contact me at 924-3986.

C: Andrew Garcia
File

Sincerely

Bernie J. Montoya CE
Associate Engineer

CITY OF
Albuquerque

September 1,1998

Martin J. Chávez, Mayor

John Alexander
Bohannan & Huston, Inc.
7500 Jefferson NE
Albuquerque New Mexico 87109

RE: ENGINEER CERTIFICATION FOR PAD 5 OF THE PAVILIONS AT SAN MATEO
(H17-D54) CERTIFICATION STATEMENT DATED 7/15/98

Dear Mr. Alexander:

Based on the information provided on your July 15,1998 submittal, Engineer Certification for the above referenced site is acceptable.

If I can be of further assistance, please feel free to contact me at 924-3986.

C: Andrew Garcia
File

Sincerely

Bernie J. Montoya CE
Associate Engineer

CITY OF
Albuquerque

September 1,1998
Martin J. Chávez, Mayor

John Alexander
Bohannan & Huston, Inc.
7500 Jefferson NE
Albuquerque New Mexico 87109

RE: ENGINEER CERTIFICATION FOR PAD 5 OF THE PAVILIONS AT SAN MATEO
(H17-D54) CERTIFICATION STATEMENT DATED 7/15/98

Dear Mr. Alexander:

Based on the information provided on your July 15,1998 submittal, Engineer Certification for the above referenced site is acceptable.

If I can be of further assistance, please feel free to contact me at 924-3986.

C: Andrew Garcia
File

Sincerely

Bernie J. Montoya CE
Associate Engineer

CITY OF
Albuquerque

Martin J. Chávez, Mayor

October 6,1997

John Alexander
Bohannan Huston, Inc.
7500 Jefferson NE
Albuquerque, New Mexico 87109

RE: ENGINEER CERTIFICATION FOR THE PAVILIONS AT SAN MATEO PHASE II
CERTIFICATION STATEMENT DATED 10/1/97

Dear Mr. Alexander :

Based on the information provided on your October 2,1997 submittal, Engineer Certification for the above referenced site is acceptable.

If I can be of further assistance, please feel free to contact me 924-3986.

C: Andrew Garcia
File

Sincerely

Bernie J. Montoya CE
Associate Engineer

DRAINAGE INFORMATION SHEET

D54

PROJECT TITLE: Pavilions at San Mateo ZONE ATLAS/DRNG. FILE # H-17-Z

DRB #: 96-141 EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: The Pavilions at San Mateo Tracts 1A thru 7A.

CITY ADDRESS: 4400 Cutler Ave NE.

ENGINEERING FIRM: BOHANNAN-HUSTON INC. CONTACT: John Alexander

ADDRESS: 7500 JEFFERSON NE, ALB. NM 87109 PHONE: (505) 823-1000

OWNER: Kitchell Dev. Corp. CONTACT: Kurt Kurtti

ADDRESS: Calfi PHONE: 949 ~~714~~ 487-2771

ARCHITECT: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

_____ DRAINAGE REPORT

_____ DRAINAGE PLAN

_____ FINAL GRADING & DRAINAGE PLAN

_____ GRADING PLAN

_____ EROSION CONTROL PLAN

X ENGINEER=S CERTIFICATION

_____ OTHER

PRE-DESIGN MEETING:

_____ YES

X 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

X CERTIFICATE OF OCCUPANCY APPROVAL

_____ GRADING PERMIT APPROVAL

_____ PAVING PERMIT APPROVAL

_____ S.A.D. DRAINAGE REPORT

_____ DRAINAGE REQUIREMENTS

_____ OTHER _____ (SPECIFY)

DATE SUBMITTED: 7-15-98

BY: John C Alexander

RECEIVED
JUL 15 1998
HYDROLOGY SECTION

CLIENT/COURIER TRANSMITTAL

BOHANNAN HUSTON
Courtyard One
7500 JEFFERSON NE
Albuquerque
NEW MEXICO 87109
voice 505.823.1000
fax 505.821.0892

To: Mr. Andrew Garcia
City of Albuquerque
Hydrology Division/PWD
600 2nd St. NW
2nd Floor
Albuquerque, NM 87102

Requested By: John Alexander

Date: July 15, 1998

Time Due: ☐ This A.M. ☒ This P.M.
☐ Rush ____ ☐ By Tomorrow

Job Name: Pavilions at San Mateo

Job No.: 95 220 C3 2492

DELIVERY VIA

☒ Courier ☐ Federal Express
☐ Mail ☐ UPS
☐ Other _____

PICK UP

Item: _____

_____

ITEM NO.	QUANTITY	DESCRIPTION
1.	1	cc of letter to Bernie Montoya re Submittal of Drainage Certification, Pad 5 of the Pavilions at San Mateo

COMMENTS / INSTRUCTIONS

REC'D BY: _____ ***DATE:*** _____ ***TIME:*** _____

ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

RECEIVED
JUL 15 1998
HYDROLOGY SECTION

July 15, 1998

COPY

Mr. Bernie Montoya
City of Albuquerque
Hydrology Division/PWD
P.O. Box 1293
Albuquerque, NM 87103

BOHANNAN HUSTON

Courtyard One

7500 JEFFERSON NE

Albuquerque

NEW MEXICO 87109

voice 505.823.1000

fax 505.821.0892

Re: Submittal of Drainage Certification, Pad 5 of the Pavilions at San Mateo

Dear Bernie:

We are resubmitting the drainage certification for the permanent certificate of occupancy on Pad 5 of the Pavilions at San Mateo. By this submittal we are certifying that the site drainage has been completed in substantial compliance with the approved grading plan, stamped August 6, 1996. This submittal addresses your comments made in the letter dated June 10, 1997, a copy of which is enclosed for your convenience.

As you can see, the amount of Pad 5's certification is quite small. The owner requested a change in finished floor elevation due to moving the entrance of the building. The change in elevation had no adverse effects on the drainage of the site. It benefited the site by removing a low area on the east side of the landscape area.

With the information above, we request that the drainage certification be approved for Pad 5, which completes the Phase I build out. I have also enclosed a color exhibit for your reference. There will be two more drainage certification submittals in the future before Phase II is complete. If I can answer any questions or provide additional information, please feel free to contact me at any time.

Sincerely,
Bohannan Huston

John Alexander, P.E.
Project Engineer
Community Development
and Planning Group

JA/gdr

Enclosure - Drainage Certification
Color Exhibit

cc: Kurt Kurtti, Kitchell Development
Andrew Garcia, City of Albuquerque
James Topmiller, Bohannan Huston

RECEIVED
JUL 15 1998
HYDROLOGY SECTION

P:\95220\cdp\c32492-drng cert\corres\Pad5.doc - 07/15/98

Bohannan ▲ Huston

CLIENT/COURIER TRANSMITTAL

TO: Bernie Montoya
C.O.A.
Plaza Del Sol

Requested By: John Alexander

Date: 7-15-98

Time Due: ☐ This A.M. ☒ This P.M.
☐ Rush ____ ☐ By Tomorrow

Job No.: 95220 ~~C3~~ C3 2492

Job Name: Pavilions at San Mateo

BOHANNAN HUSTON
Courtyard One
7500 JEFFERSON NE
Albuquerque
NEW MEXICO 87109
voice 505.823.1000
fax 505.821.0892

DELIVERY VIA

☒ Courier ☐ Federal Express
☐ Mail ☐ UPS
☐ Other ____

PICK UP

Item: ____

ITEM NO.	QUANTITY	DESCRIPTION
1	1	Blue Line of Site
2	1	Drainage Info sheet
3.	1	color exhibit
4	1	cover letter

COMMENTS/INSTRUCTIONS

RECEIVED
JUL 15 1998
HYDROLOGY SECTION

Received By: Nina Pohl Date: 7-15-98 Time: ____

July 15, 1998

Mr. Bernie Montoya
City of Albuquerque
Hydrology Division/PWD
P.O. Box 1293
Albuquerque, NM 87103

BOHANNAN HUSTON

Courtyard One

7500 JEFFERSON NE

Albuquerque

NEW MEXICO 87109

voice 505.823.1000

fax 505.821.0892

Re: Submittal of Drainage Certification, Pad 5 of the Pavilions at San Mateo

Dear Bernie:

We are resubmitting the drainage certification for the permanent certificate of occupancy on Pad 5 of the Pavilions at San Mateo. By this submittal we are certifying that the site drainage has been completed in substantial compliance with the approved grading plan, stamped August 6, 1996. This submittal addresses your comments made in the letter dated June 10, 1997, a copy of which is enclosed for your convenience.

As you can see, the amount of Pad 5's certification is quite small. The owner requested a change in finished floor elevation due to moving the entrance of the building. The change in elevation had no adverse effects on the drainage of the site. It benefited the site by removing a low area on the east side of the landscape area.

With the information above, we request that the drainage certification be approved for Pad 5, which completes the Phase I build out. I have also enclosed a color exhibit for your reference. There will be two more drainage certification submittals in the future before Phase II is complete. If I can answer any questions or provide additional information, please feel free to contact me at any time.

Sincerely,
Bohannan Huston

John Alexander, P.E.
Project Engineer
Community Development
and Planning Group

JA/gdr

Enclosure - Drainage Certification
Color Exhibit

cc: Kurt Kurtti, Kitchell Development
Andrew Garcia, City of Albuquerque
James Topmiller, Bohannan Huston

P:\95220\cdp\c32492-drng cert\corres\Pad5.doc - 07/15/98

RECEIVED BHI JUN 12 1997

CITY OF
Albuquerque

Martin J. Chávez, Mayor

June 10,1997

John Alexander
Bohannan Huston, Inc.
7500 Jefferson NE
Albuquerque, New Mexico 87109

RE: ENGINEER CERTIFICATION FOR THE PAVILIONS AT SAN MATEO PHASE II
(H17-D54) CERTIFICATION STATEMENT DATED 5/22/97

Dear Mr. Alexander:

Based on the information provided on your May 29,1997 submittal, Engineer Certification for the above referenced site is acceptable.

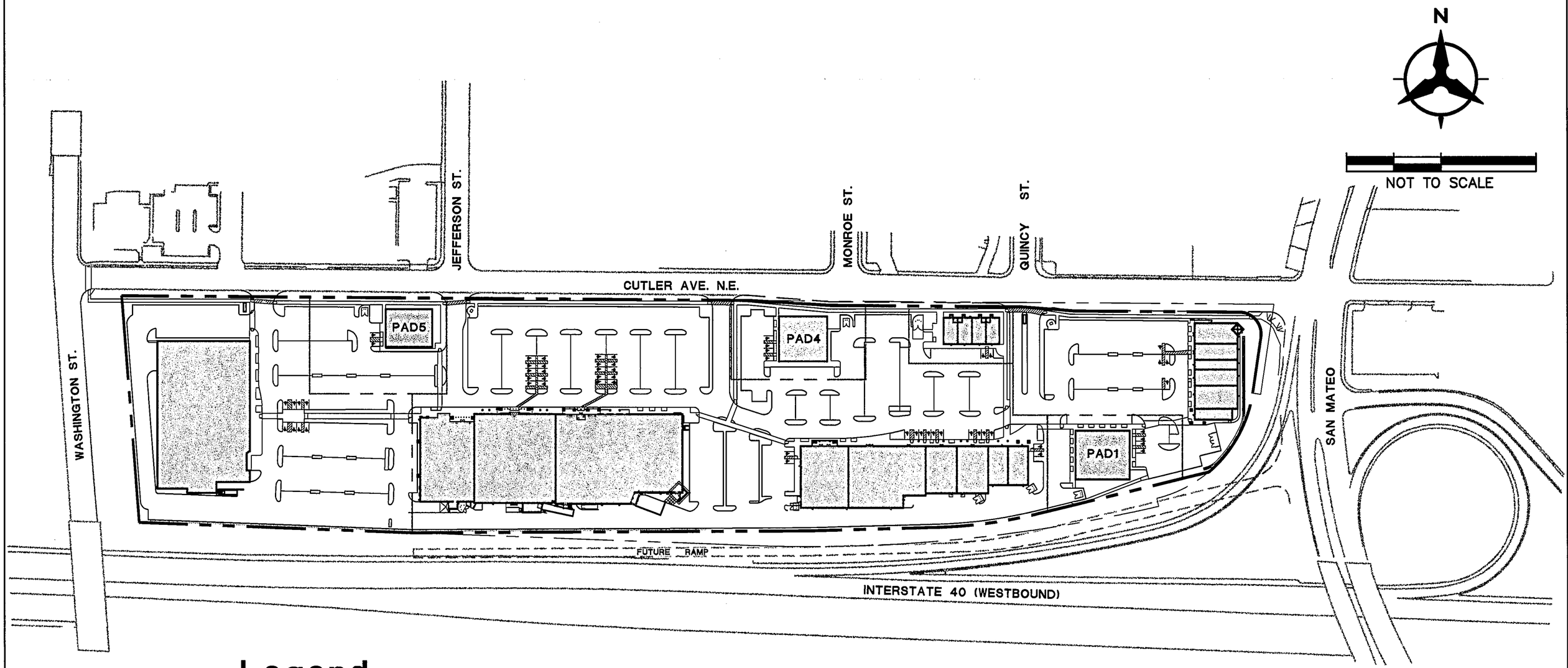
Please be advised that the pads that have not been built on will require Certification have they have been built on.

If I can be of further assistance, please feel free to contact me at 924-3986.

C: Andrew Garcia
File

Sincerely

Bernie J. Montoya CE
Associate Engineer



Legend

- Buildings with Certificate of Occupancy
- Buildings seeking Certificate of Occupancy
- Future tenants

The Pavilions at San Mateo
Certificate of Occupancy Status

July, 1998

Bohannan ▲ Huston

Courtyard One
7500 JEFFERSON NE
Albuquerque
NEW MEXICO 87109

ENGINEERS PLANNERS PHOTOGRAMMETRISTS
SURVEYORS SOFTWARE DEVELOPERS

Filename: bhi-main\95220\cdp\c32440-site revision\dwg\misc\EXHIBIT.dwg
Xref: GRNBERG.dwg, EX.dwg

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Pavilions at San Mateo ZONE ATLAS/DRNG. FILE # H-17 / D54

DRB #: 96-141 EPC #: _____ WORK ORDER #: 5440.81

LEGAL DESCRIPTION: Pavilions at San Mateo Tracts 1A Thru 7A.

CITY ADDRESS: 4400 → 5010 Cutler Ave.

ENGINEERING FIRM: BOHANNAN HUSTON, INC. CONTACT: John Alexander

ADDRESS: 7500 JEFFERSON NE, ALB. NM 87109 PHONE: 823-1000

OWNER: Kitchell Dev. Co. CONTACT: Don Glatthorn

ADDRESS: 26 Executive Park Suite 100 Irvine CA. PHONE: 714 261 1227

ARCHITECT: Greenagburg Farrow Arch. CONTACT: Mike Elkin

ADDRESS: 15101 Red Hill Ave. Suite 200 Tustin CA PHONE: 714 259 0500

SURVEYOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

Temp on Retail C Comp USA - 4610
30 day Retail D Linen & Thing - 4700

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT

____ DRAINAGE PLAN

____ CONCEPTUAL GRADING & DRAINAGE PLAN

____ GRADING PLAN

____ EROSION CONTROL PLAN

____ ENGINEER'S CERTIFICATION (PHASE II)

____ 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

X CERTIFICATE OF OCCUPANCY APPROVAL (Permanent)

____ GRADING PERMIT APPROVAL

____ PAVING PERMIT APPROVAL

____ S.A.D. DRAINAGE REPORT

____ DRAINAGE REQUIREMENTS

____ OTHER _____ (SPECIFY)

on 6/9/97 Eastern Bagels
Star Bucks - Coffee
Boston Market
} 5010 Cutler Ave

DATE SUBMITTED: 5-29-97

BY: John C Alexander

RECEIVED
MAY 29 1997
HYDROLOGY SECTION

BOHANNAN HUSTON

Courtyard One

7500 JEFFERSON NE

Albuquerque

NEW MEXICO 87109

voice 505.823.1000

fax 505.821.0892

October 1, 1997

Mr. Bernie Montoya
City of Albuquerque
Hydrology Division/PWD
P.O. Box 1293
Albuquerque, NM 87103

Re: Submittal of Drainage Certification, Phase 2 of the Pavilions at San Mateo

Dear Bernie:

We are submitting the drainage certification for the permanent certificate of occupancy on Phase 2 of the Pavilions at San Mateo. By this submittal we are certifying that the site drainage has been completed in substantial compliance with the approved grading plan, stamped August 6, 1996, for this final Phase 2. This submittal addresses your comments made in the letter dated June 10, 1997, a copy of which is enclosed for your convenience.

With the information above, we request that the drainage system as currently constructed be approved for the building identified on the attached exhibit. We will resubmit for each undeveloped pad per you request. If we can answer any questions or provide additional information, please feel free to contact me at any time.

Sincerely,
Bohannan Huston

John Alexander, P.E.
Community Development and Planning Group

JA/hjh

Enclosure - Drainage Certification

cc: Don Glatthorn, Kitchell Development
Larry Webb, Kitchell Contractors
Andrew Garcia, City of Albuquerque
James Topmiller, Bohannan Huston

RECEIVED
OCT 02 1997
HYDROLOGY SECTION

H:\95220\cdp\c32492-drng cert\corres\submit1001.doc

RECEIVED BHI JUN 12 1997

CITY OF
Albuquerque

Martin J. Chávez, Mayor

June 10,1997

John Alexander
Bohannan Huston, Inc.
7500 Jefferson NE
Albuquerque, New Mexico 87109

RE: ENGINEER CERTIFICATION FOR THE PAVILIONS AT SAN MATEO PHASE II
(H17-D54) CERTIFICATION STATEMENT DATED 5/22/97

Dear Mr. Alexander:

Based on the information provided on your May 29,1997 submittal, Engineer Certification for the above referenced site is acceptable.

Please be advised that the pad that have not been built on will require Certification ~~have~~ after they have been built on.

If I can be of further assistance, please feel free to contact me at 924-3986.

C: Andrew Garcia
File

Sincerely

Bernie J. Montoya CE
Associate Engineer

RECEIVED
OCT 02 1997
HYDROLOGY SECTION

May 29, 1997

BOHANNAN HUSTON

Courtyard One

7500 JEFFERSON NE

Albuquerque

NEW MEXICO 87109

voice 505.823.1000

fax 505.821.0892

Mr. Bernie Montoya
City of Albuquerque
Hydrology Division/PWD
P.O. Box 1293
Albuquerque, NM 87103

Re: Resubmittal of Drainage Certification, Phase 2 of the Pavilions at San Mateo

Dear Bernie:

We are resubmitting the drainage certification for the permanent certificate of occupancy on Phase 2 of the Pavilions at San Mateo. By this submittal we are certifying that the site drainage has been completed in substantial compliance with the approved grading plan, stamped August 6, 1996, for this final Phase 2. This submittal addresses our comments made in the letter dated May 1, 1997, a copy of which is enclosed for your convenience.

With the information above, we request that the drainage system as currently constructed be approved for the entire remainder of the site (Phase 2). If we can answer any questions or provide additional information, please feel free to contact me at any time.

Sincerely,
Bohannan Huston

John Alexander

John Alexander, P.E.
Community Development and Planning Group

JA/hjh

Enclosure - Drainage Certification

cc: Don Glatthorn, Kitchell Development
Larry Webb, Kitchell Contractors
Andrew Garcia, City of Albuquerque
James Topmiller, Bohannan Huston

RECEIVED
MAY 29 1997
HYDROLOGY SECTION

H:\95220\cdp\c32492-drng cert\corres\resubmittal.doc - 05/29/97

CITY OF
Albuquerque

Martin J. Chávez, Mayor

June 10,1997

John Alexander
Bohannan Huston, Inc.
7500 Jefferson NE
Albuquerque, New Mexico 87109

RE: ENGINEER CERTIFICATION FOR THE PAVILIONS AT SAN MATEO PHASE II
(H17-D54) CERTIFICATION STATEMENT DATED 5/22/97

Dear Mr. Alexander:

Based on the information provided on your May 29,1997 submittal, Engineer Certification for the above referenced site is acceptable.

Please be advised that the pad that have not been built on will require Certification have they have been built on.

If I can be of further assistance, please feel free to contact me at 924-3986.

C: Andrew Garcia
File

Sincerely

Bernie J. Montoya

Bernie J. Montoya CE
Associate Engineer

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Pavilions at San Mateo ZONE ATLAS/DRNG. FILE #: H-17/D54

DRB #: 96-141 EPC #: _____ WORK ORDER #: 5440.81

LEGAL DESCRIPTION: Pavilions at San Mateo Tracts 1A thru 7A

CITY ADDRESS: 4400 → 5010 Cutler Ave N.E.

ENGINEERING FIRM: BOHANNAN-HUSTON INC. CONTACT: John Alexander

ADDRESS: 7500 JEFFERSON NE, ALB. NM 87109 PHONE: (505) 823-1000

OWNER: Kitchell Development Co. CONTACT: Kurt Kurtti

ADDRESS: 26 Executive Park, Suite 100, Irvine CA. 92714-1227 PHONE: (714) 261-1227

ARCHITECT: Greenburg Farrow Architect CONTACT: Mike Elkin

ADDRESS: 15101 Red Hill Ave, Suite 200, Tustin CA. 92680 PHONE: (714) 259-0500

SURVEYOR: Bohannan Huston CONTACT: Silas Sauzo

ADDRESS: 7500 Jefferson Alb. NM. PHONE: (505) 823-1000

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

_____ DRAINAGE REPORT
_____ DRAINAGE PLAN
_____ FINAL GRADING & DRAINAGE PLAN
_____ GRADING PLAN
_____ EROSION CONTROL PLAN
X ENGINEER'S CERTIFICATION
_____ OTHER

PRE-DESIGN MEETING:

_____ YES
X 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
X CERTIFICATE OF OCCUPANCY APPROVAL
_____ GRADING PERMIT APPROVAL
_____ PAVING PERMIT APPROVAL
_____ S.A.D. DRAINAGE REPORT
_____ DRAINAGE REQUIREMENTS
_____ OTHER _____ (SPECIFY)

DATE SUBMITTED: 10-1-97

BY: John C Alexander

RECEIVED
OCT 02 1997
HYDROLOGY SECTION

RECEIVED BHI MAY 0 6 1997

CITY OF
Albuquerque
Public Works Department

Martin J. Chávez, Mayor

MAY 1,1997

Robert E. Gurulé, Director

John Alexander
Bohanan-Huston Inc.
7500 Jefferson NE
Albuquerque, NM 87109

RE: PAVILLIONS @ SAN MATEO - JUST FOR FEET (H-17/D54), ENGINEER'S CERTIFICATION FOR 30 DAY TEMPORARY CERTIFICATE OF OCCUPANCY, ENGINEER'S STAMP DATED 8/6/96.

Dear Mr. Alexander:

Based on the information provided on your April 30, 1997 submittal, the above referenced project is approved for a 30 day Temporary Cerificate of Occupancy release. Prior to final Certificate of Occupancy release, the following items must be addressed:

1. Top of inlet and invert, and pipe invert elevations must be provided.

If I could be of further assistance, please feel free to contact me at 928-3986.

Sincerely.

Bernie Montoya
Engineering Associate

c: Andrew Garcia
File

RECEIVED
MAY 2 9 1997
HYDROLOGY SECTION

CITY OF
Albuquerque
Public Works Department

Martin J. Chávez, Mayor

MAY 1,1997

Robert E. Gurulé, Director

John Alexander
Bohanan-Huston Inc.
7500 Jefferson NE
Albuquerque, NM 87109

RE: PAVILLIONS @ SAN MATEO - JUST FOR FEET (H-17/D54), ENGINEER'S CERTIFICATION FOR 30 DAY TEMPORARY CERTIFICATE OF OCCUPANCY, ENGINEER'S STAMP DATED 8/6/96.

Dear Mr. Alexander:

Based on the information provided on your April 30, 1997 submittal, the above referenced project is approved for a 30 day Temporary Cerificate of Occupancy release. Prior to final Certificate of Occupancy release, the following items must be addressed:

1. Top of inlet and invert, and pipe invert elevations must be provided.

If I could be of further assistance, please feel free to contact me at 928-3986.

Sincerely.

Bernie Montoya
Engineering Associate

c: Andrew Garcia
File

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Pavilions at San Mateo ZONE ATLAS/DRNG. FILE # H-17/D54

DRB #: 96-141 EPC #: _____ WORK ORDER #: 5490.81

LEGAL DESCRIPTION: Pavilions at San Mateo Tracts 1Athru 7A

CITY ADDRESS: 4700 Cutler Avenue NE

ENGINEERING FIRM: BOHANNAN-HUSTON INC. CONTACT: John Alexander

ADDRESS: 7500 JEFFERSON NE, ALB. NM 87109 PHONE: (505) 823-1000

OWNER: Kitchell Development Co. CONTACT: Don Glatthorn

ADDRESS: 26 Executive Park, Suite 100, Irvine CA 92714-1227 PHONE: (714) 261-1227

ARCHITECT: Greenburg Farrow Architect CONTACT: Mike Elkin

ADDRESS: 15101 Red Hill Ave. Suite 200, Tustin, CA 92680 PHONE: (714) 259-0500

SURVEYOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

_____ DRAINAGE REPORT

_____ DRAINAGE PLAN

_____ FINAL GRADING & DRAINAGE PLAN

_____ GRADING PLAN

_____ EROSION CONTROL PLAN

X ENGINEER'S CERTIFICATION (Phase II)

_____ OTHER

PRE-DESIGN MEETING:

_____ YES

X 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

X CERT OF OCCUPANCY APPROVAL (~~Permanent~~ Temporary)

_____ GRADING PERMIT APPROVAL

_____ PAVING PERMIT APPROVAL

_____ S.A.D. DRAINAGE REPORT

_____ DRAINAGE REQUIREMENTS

_____ OTHER _____ (SPECIFY)

DATE SUBMITTED: 4-29-97

BY: John Alexander

RECEIVED
APR 30 1997
HYDROLOGY SECTION

H:\95220\cdp\c32492-drng cert\DRAINAGE INFO SHT.doc - 03/12/97

BOHANNAN-HUSTON INC.
ENGINEERS ▪ PLANNERS ▪ PHOTOGRAMMETRISTS ▪ SURVEYORS ▪ LANDSCAPE ARCHITECTS
COURTYARD I, 7500 JEFFERSON NE, ALBUQUERQUE, NM 87109 TEL (505) 823-1000 FAX (505) 821-0892

CLIENT/COURIER TRANSMITTAL

To: ~~Lisa Ann Manwill~~
c/o FRED AGUIRRE
COA Hydrology
Plaza Del Sol

Requested By: John Alexander
Date: 4-29-97
Time Due: ☒ This A.M. ☐ This P.M.
☐ Rush _____ ☐ By Tomorrow
Job No.: 95220 C3 2492
Job Name: Pavilions at San Mateo

DELIVERY VIA

☒ Courier ☐ Federal Express
☐ Mail ☐ UPS
☐ Other _____

PICK UP

Item: _____

ITEM NO.	QUANTITY	DESCRIPTION
1	1	Blue line of Phasing Plan
2	1	Blue line of Engineers Certification
3	1	cover letter
4	1	Drainage Info Sheet.
		Location map & Legal Des. on plan.

COMMENTS / INSTRUCTIONS

Lisa,
Per our phone conversation a while back.
I am submitting the Phase II Drainage Cert.
for Pavilions at San Mateo.

Engineers Certifications to approved for Temp C.O.
Please be advised that prior to C.O. (Final) release, the following must be addressed.

1.) Top of inlet, inverts, pipe inverts, and parking lot as-built elevations must be provided.

Received By: _____ Date: 1/30/97 Time: _____

Misc/Courier Rqst Form 08/96

(I I CBOFA, PFFT & MA)

BOHANNAN HUSTON

Courtyard One

7500 JEFFERSON NE

Albuquerque

NEW MEXICO 87109

voice 505.823.1000

fax 505.821.0892

April 29, 1997

Fred Aguirre
City of Albuquerque
Hydrology Division/PWD
P.O. Box 1293
Albuquerque, NM 87102

Re: Submittal of Drainage Certification, Phase 2 of the Pavilions at San Mateo

Dear Fred:

We are submitting the drainage certification for the temporary certificate of occupancy on the Phase 2 of the Pavilions at San Mateo. By this submittal we are certifying that the site drainage has been completed in substantial compliance with the approved grading plan, stamped August 6, 1996, for this final Phase 2.

I have also enclosed the site phasing plan for your review and information. Phase 1 was approved by Lisa Manwill on December 23, 1996. All underground storm drain infrastructure is complete. Paving for Phase 2 is complete with the exception of a few building pads and a 40' wide strip of pavement due south of Retails B-C and D. The building pads will be left unfinished until they are sold for development, at which time we will submit a grading and drainage plan on an individual pad basis. The undeveloped pads are Pad 5 in Phase 1; Pad 4 and Pad 1 in Phase 2. Paving, curbs and landscaping immediately surrounding these pads will be installed as each individual building is constructed. The strip south of B-C and D is to be paved by the middle of May.

Landscaping is essentially complete on the developed site except for a few interior islands. Landscaping is to be completed by the middle of May.

With the information above, we request that the drainage system as currently constructed be approved. We would appreciate your expedient attention to this matter as one of the stores in Phase 2 plans to open May 2, 1997. If we can answer any questions or provide additional information, please feel free to contact me at any time.

Sincerely,
Bohannan Huston

John Alexander

John Alexander, P.E.
Community Development and Planning Group

JA/hjh
Enclosure

cc: Don Glatthorn, Kitchell Development
Larry Webb, Kitchell Contractors
Steve Wilson, Kitchell Contractors
Andrew Garcia, COA
James Topmiller, BH

H:\95220\cdp\c32492-drng cert\corres\cert submittal.doc - 04/29/97

RECEIVED
APR 30 1997
HYDROLOGY SECTION

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Pavilions at San Mateo ZONE ATLAS/DRNG. FILE # H-17 / D54

DRB #: 96-141 EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: Tracts 1-7 Pavilions at San Mateo

CITY ADDRESS: Caller at San Mateo

ENGINEERING FIRM: BOHANNAN HUSTON, INC. CONTACT: James Topmiller or John Alexander

ADDRESS: 7500 JEFFERSON NE, ALB. NM 87109 PHONE: 823-1000

OWNER: Kitchell Development Inc. CONTACT: Don Glatthorn

ADDRESS: _____ PHONE: (719) 261-1227

ARCHITECT: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: (Paving) Montoya Construction Co. CONTACT: David Montoya

ADDRESS: _____ PHONE: 898-6330

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT

____ DRAINAGE PLAN

____ CONCEPTUAL GRADING & DRAINAGE PLAN

____ GRADING PLAN

____ EROSION CONTROL PLAN

__✓__ ENGINEER'S CERTIFICATION (Phase I)

____ OTHER

PRE-DESIGN MEETING:

____ YES

____ NO

____ COPY PROVIDED

Phase I 12/20/96

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 (Phase I)

____ GRADING PERMIT APPROVAL

____ PAVING PERMIT APPROVAL

____ S.A.D. DRAINAGE REPORT

____ DRAINAGE REQUIREMENTS

__✓__ OTHER Phasing Plan (SPECIFY)

DATE SUBMITTED: 12-20-96

BY: John Alexander

RECEIVED
DEC 20
HYDROLOGY

BOHANNAN-HUSTON INC.
COURTYARD I, 7500 JEFFERSON STREET, NE ALBUQUERQUE, NM 87109-4355
TEL (505) 823-1000 FAX (505) 821-0892

December 20, 1996

Ms. Lisa Ann Manwill
City of Albuquerque
Hydrology/Public Works Division
P.O. Box 1293
Albuquerque, NM 87103

Re: Resubmittal of Drainage Certification, Phase I of the Pavilions at San Mateo

Dear Lisa:

This letter is in response to your letter dated November 22nd. We are resubmitting the Drainage Certification for a permanent Certificate of Occupancy on Phase I of the Pavilions at San Mateo Project. The as-built finish floor elevation for Circuit City has been added to the drainage certification mylar per your request.

The ability of Phase 1 to have standalone capability for drainage management is recognized by the following:

- Phase 1 is completely paved, and landscaped at this time.
- The storm drainage system for Phase 1 is complete (Line 'B').
- Line 'B' also captures approximately 40% of the unpaved portion of the site (Phase 2).
- Line 'A', located near the Monroe Street entrance is complete and captures approximately 60% of the unpaved site.

Phase 2 will be fully paved prior to the next rainy season.

I have enclosed the site phasing plan for your review. This site consists of two paving phases. Phase 2 paving will be the remainder of the site with the exception of several building pads. The building pads will be left unfinished until they are sold for development, at which time we will submit a grading and drainage plan on an individual pad basis. Phase 2 paving is expected to be complete by the end of January 1997. We will submit a drainage certification for Phase 2 at a later date.

With the information above, we request that the drainage system as currently constructed be approved for Phase 1. If we can answer any questions or provide additional information, please feel free to contact me or James Topmiller at any time.

Sincerely,

John Alexander

John Alexander, E.I.
Community Development
and Planning Group

JA/lsp
Enclosure

cc: Don Glatthorn, Kitchell Development Co.
Steve Wilson, Kitchell Contractors
Larry Webb, Kitchell Contractors
James Topmiller, BHI

M:\95220\C32492\RESUBMIT.DOC - 12/20/96

LARRY W. HUSTON, C.P. — KERRY L. DAVIS, P.E. — *PRINCIPALS* — GEORGE RADNOVICH, R.L.A. — WILLIAM L. VREEKE, P.E.
MICHIAL M. EMERY, P.E. — LARRY A. LARRAÑAGA, P.E. — SILAS V. SUAZO — GORDON A. WALHOOD, JR., P.E.
BRIAN G. BURNETT, P.E. — HOWARD C. STONE, P.E. — JAMES R. TOPMILLER, P.E. — MARY E. CARTER

BOHANNAN-HUSTON INC.
ENGINEERS ▪ PLANNERS ▪ PHOTOGRAMMETRISTS ▪ SURVEYORS ▪ LANDSCAPE ARCHITECTS
COURTYARD I, 7500 JEFFERSON NE, ALBUQUERQUE, NM 87109 TEL (505) 823-1000 FAX (505) 821-0892

CLIENT/COURIER TRANSMITTAL

To: Lisa Manwill
COA.
Hydrology Dept

Requested By: John Alexander
Date: 12-20-96
Time Due: ☒ This A.M. ☐ This P.M.
☐ Rush _____ ☐ By Tomorrow
Job No.: Pavilions
Job Name: 95220 C3 2492

DELIVERY VIA

☒ Courier ☐ Federal Express
☐ Mail ☐ UPS
☐ Other _____

PICK UP

Item: _____

ITEM NO.	QUANTITY	DESCRIPTION
1	1	cover letter / vicinity Map
2	1	Drainage Info Sheet
3	1	Phasing Plan
4	1	Drainage Cert. Sheet

COMMENTS / INSTRUCTIONS

Resubmittal of Drainage Certification for Certificate of Occupancy.

DEC 20

Received By: _____ *Date:* _____ *Time:* _____

Misc/Courier Rqst Form 10/94

BOHANNAN-HUSTON INC.
ENGINEERS ▪ PLANNERS ▪ PHOTOGRAMMETRISTS ▪ SURVEYORS ▪ LANDSCAPE ARCHITECTS
COURTYARD I, 7500 JEFFERSON NE, ALBUQUERQUE, NM 87109 TEL (505) 823-1000 FAX (505) 821-0892

CLIENT/COURIER TRANSMITTAL

To: Lisa Manwill
COA
Hydrology Dept

Requested By: John Alexander
Date: 12-20-96
Time Due: ☒ This A.M. ☐ This P.M.
☐ Rush ____ ☐ By Tomorrow
Job No.: Pavilions
Job Name: 9520C3.2492

DELIVERY VIA

☒ Courier ☐ Federal Express
☐ Mail ☐ UPS
☐ Other ____

PICK UP

Item: ____

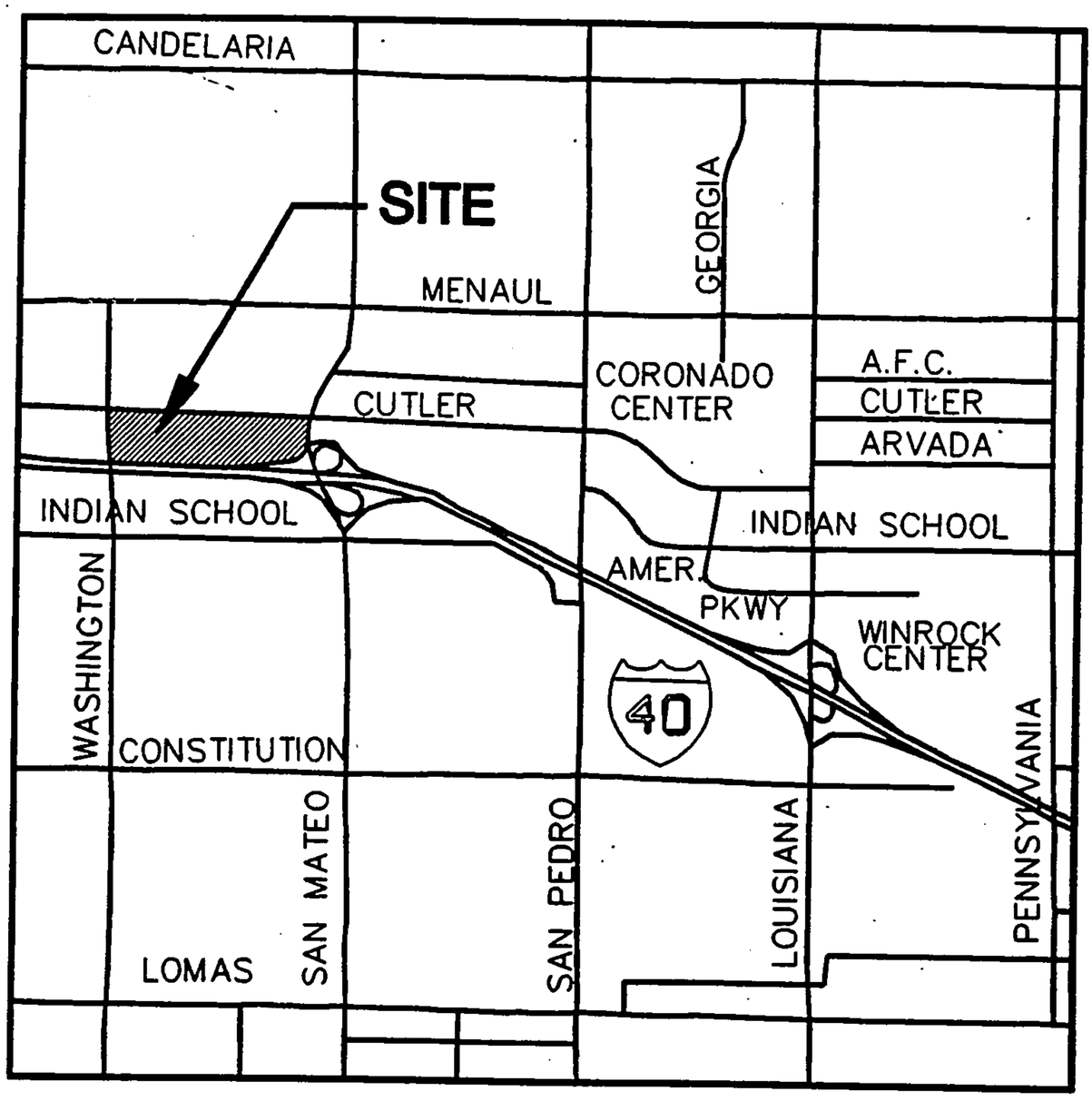
ITEM NO.	QUANTITY	DESCRIPTION
1	1	cover letter / vicinity Map
2	1	Drainage Info Sheet
3	1	Phasing Plan
4	1	Drainage Cert. Sheet

COMMENTS / INSTRUCTIONS

Resubmittal of Drainage Certification for Certificate Of Occupancy.

Received By: ____ *Date:* ____ *Time:* ____

Misc/Courier Rqst Form 10/94



VICINITY MAP

H-17-Z

DRAINAGE INFORMATION SHEET

PROJECT TITLE: PAVILIONS @ SAN MATEO ZONE ATLAS/DRNG. FILE # H-17/054

DRB #: 96-141 EPC #: WORK ORDER #:

LEGAL DESCRIPTION: TRACTS 1A - 7A, PAVILIONS @ SAN MATEO

CITY ADDRESS:

ENGINEERING FIRM: BOHANNAN HUSTON, INC. CONTACT: JOHN ALEXANDER or JAMES TOPMILLER

ADDRESS: 7500 JEFFERSON NE, ALB. NM 87109 PHONE: 823-1000

OWNER: CONTACT:

ADDRESS: PHONE:

ARCHITECT: CONTACT:

ADDRESS: PHONE:

SURVEYOR: CONTACT:

ADDRESS: PHONE:

CONTRACTOR: CONTACT:

ADDRESS: PHONE:

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT

___ DRAINAGE PLAN

___ CONCEPTUAL GRADING & DRAINAGE PLAN

___ GRADING PLAN

___ EROSION CONTROL PLAN

_✓_ ENGINEER'S CERTIFICATION (PARTIAL)

___ 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 (TEMP.)

___ GRADING PERMIT APPROVAL

___ PAVING PERMIT APPROVAL

___ S.A.D. DRAINAGE REPORT

___ DRAINAGE REQUIREMENTS

___ OTHER _____ (SPECIFY)

DATE SUBMITTED: 11/20/96

BY: JAMES TOPMILLER

RECEIVED NOV 22 1996

ENGINEERS ARCHITECTS PHOTOGRAMMETRISTS SURVEYORS

November 20, 1996

Ms. Lisa Ann Manwill
City of Albuquerque
Hydrology/Public Works Division
P.O. Box 1293
Albuquerque, NM 87103

Re: Pavilions at San Mateo Drainage Certification for Circuit City (Phase 1)

Dear Lisa:

The purpose of this letter is to submit a drainage certification for the now constructed Circuit City building, associated parking and storm drainage infrastructure.

This submittal is based on a field survey performed by Bohannan-Huston Inc. and field inspection provided by myself. Landscaping for this effort is incomplete at this time but is undergoing final installation. Since landscaping is incomplete, we are requesting only temporary Certificates of Occupancy at this time. By this submittal, we are certifying that the site drainage has been completed in substantial compliance with the approved drainage grading plan for this phase area.

This phasing was not identified on our previous submittals but was approved by the Development Review Board for the site plan. With this submittal, we are identifying the phase line for the opening of Circuit City and will identify possible additional phasing with future submittals. The storm drainage system is installed and completely operable for the entire Pavilions site, not just the Circuit City phase. Site grading outside Phase 1 has been accomplished so the drainage patterns comply with the approved drainage report, less the asphalt paving. Paving operations for the remainder of the site should begin in a couple of months. Given substantial sheet flow conditions across the site, and the non-rainy season time period that we are in, we request that the drainage system as currently constructed to be approved for Phase 1.

Accordingly, please provide a temporary Certificate of Occupancy of the Circuit City phase. If we can answer any questions or provide additional information, please feel free to contact me at any time.

Sincerely,

James R. Topmiller, P.E.
Vice President and Group Manager
Community Development and Planning Group

JRT/rac
Enclosure - Drainage Certification
cc: Don Glatthorn, Kitchell Development Co.
Steve Wilson, Kitchell Contractors
Larry Webb, Kitchell Contractors
John Alexander, BHI

K:\95220\C32492\ConOccu.doc - 11/20/96

BOHANNAN-HUSTON INC.
COURTYARD I, 7500 JEFFERSON STREET, N.E. ALBUQUERQUE, NM 87109
TEL (505) 823-1000 FAX (505) 821-0892

PRINCIPALS
LARRY W. HUSTON, C.P.
MICHIAL M. EMERY, P.E.
BRIAN G. BURNETT, P.E.
KERRY L. DAVIS, P.E.
LARRY A. LARRAÑAGA, P.E.
HOWARD C. STONE, P.E.
WILLIAM L. VREEKE, P.E.
GORDON A. WALHOOD, JR., P.E.
MARY E. CARTER
GEORGE RADNOVICH, R.L.A.
SILAS V. SUAZO
JAMES R. TOPMILLER, P.E.

BOHANNAN-HUSTON INC.
ENGINEERS • PLANNERS • PHOTOGRAMMETRISTS • SURVEYORS • LANDSCAPE ARCHITECTS
COURTYARD I, 7500 JEFFERSON NE, ALBUQUERQUE, NM 87109 TEL (505) 823-1000 FAX (505) 821-0892

FACSIMILE TRANSMITTAL COVER SHEET

Date: 11/22/96 **FAX No.:** 768-3629

To: Lisa Manwill

Company: COA Hydrology

From: Mike Jeffords

Job No. : 95220c32497 **Job Name:** Pavilions

Number of pages (Including this cover page): 3

RE: Circuit City Drainage Cert (Pavillions Phase I)

Comments:

Included are:

1) Letter

2) Drainage Info Sheet

Original to Follow: ☐ Yes ☐ No

If you do not receive all pages, please contact

CITY OF
Albuquerque

August 23, 1996

Martin J. Chávez, Mayor

James Topmiller
Bohannan Huston, Inc.
7500 Jefferson NE
Albuquerque, NM 87109

RE: PAVILIONS AT SAN MATEO (H17-D54). APPROVAL FOR BUILDING PERMIT. ENGINEER'S STAMP DATED 8-6-96.

Dear Mr. Topmiller:

The above referenced project is approved for Final Building Permit. John Kelly, of AMAFCA, informed me that the licensing agreement was very near completion and that it would be acceptable to release final Building Permit.

Prior to Certificate of Occupancy, an Engineer's Certification will be required.

If I can be of further assistance, please feel free to contact me at 768-3622.

Sincerely,

Lisa Ann Manwill
Engineering Assoc./Hyd.

c: John Kelly - AMAFCA
Andrew Garcia
File

CITY OF
Albuquerque

December 23, 1996

Martin J. Chávez, Mayor

James Topmiller
Bohannan Huston, Inc.
7500 Jefferson NE
Albuquerque, NM 87109

RE: PAVILIONS AT SAN MATEO PHASE 1 (H17-D54). ENGINEER'S CERTIFICATION FOR CERTIFICATE OF OCCUPANCY. ENGINEER'S CERTIFICATION DATED 12-20-96.

Dear Mr. Topmiller:

The above referenced project is approved for a Certificate of Occupancy.

If I can be of further assistance, please feel free to contact me at 768-3622.

Sincerely,

Lisa Ann Manwill
Engineering Assoc./Hyd.

c: Andrew Garcia
File

CITY OF
Albuquerque

November 22, 1996

Martin J. Chávez, Mayor

James Topmiller
Bohannan Huston, Inc.
7500 Jefferson NE
Albuquerque, NM 87109

RE: PAVILIONS AT SAN MATEO (H17-D54). ENGINEER'S CERTIFICATION FOR CERTIFICATE OF OCCUPANCY. ENGINEER'S CERTIFICATION DATED 11-20-96.

Dear Mr. Topmiller:

The above referenced project is approved for a 30-day Temporary Certificate of Occupancy. With your next submittal, please indicate the as-built finish floor elevation.

If I can be of further assistance, please feel free to contact me at 768-3622.

Sincerely,

Lisa Ann Manwill
Engineering Assoc./Hyd.

c: John Kelly - AMAFCA
Andrew Garcia
File

BOHANNAN-HUSTON INC.
ENGINEERS ▪ PLANNERS ▪ PHOTOGRAMMETRISTS ▪ SURVEYORS ▪ LANDSCAPE ARCHITECTS
COURTYARD I, 7500 JEFFERSON NE, ALBUQUERQUE, NM 87109 TEL (505) 823-1000 FAX (505) 821-0892

CLIENT/COURIER TRANSMITTAL

To: Lisa Manwill
c/o Dolores Lopez
Hydro. Dept.
COA

Requested By: James Topmiller
Date: 6-28-96
Time Due: ☐ This A.M. ☒ This P.M.
☒ Rush ☐ By Tomorrow
Job No.: C95220A2140
Job Name: PAVILIONS

DELIVERY VIA

☒ Courier ☐ Federal Express
☐ Mail ☐ UPS
☐ Other

PICK UP

Item:

ITEM NO.	QUANTITY	DESCRIPTION
	1	Revised Drainage Report
	1	Drainage Info Sheet
	1	Location Map & Legal - Description
	1	Cover letter

COMMENTS / INSTRUCTIONS

Dolores, The Legal Description ~~and Location Map~~ is located in pocket 2 of the Drainage Report.

Received By: L. Lopez Date: JUL - 1 1996 6/28/96 Time:

Misc/Courier Rqst Form 10/94

CITY OF
Albuquerque

August 7, 1996

Martin J. Chávez, Mayor

James Topmiller
Bohannan Huston, Inc.
7500 Jefferson NE
Albuquerque, NM 87109

RE: PAVILIONS AT SAN MATEO (H17-D54) UPDATED DRAINAGE PLANS FOR BUILDING PERMIT. ENGINEER'S STAMP DATED 8-6-96.

Dear Mr. Topmiller:

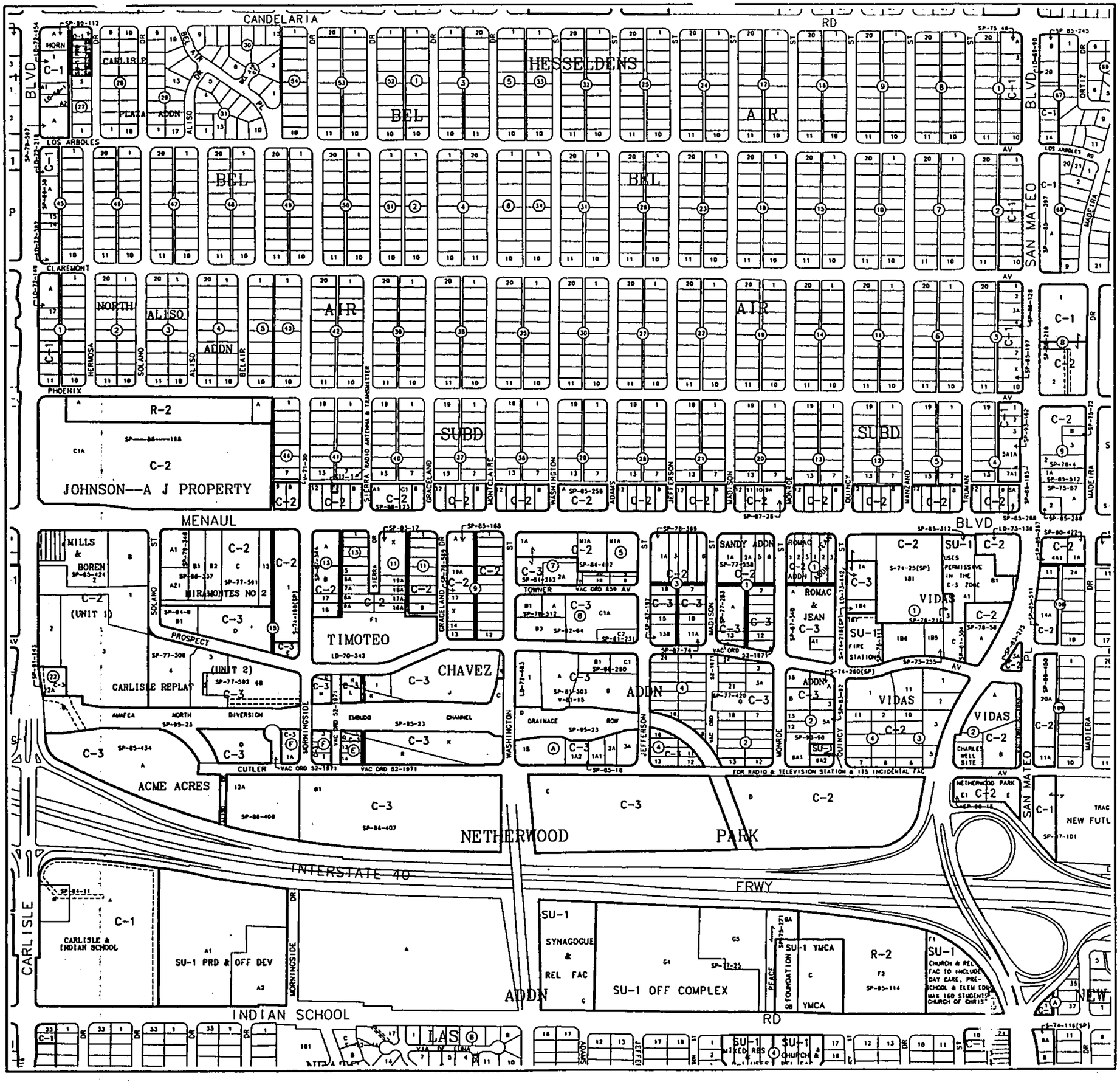
Based on the updated information provided on your August 5, 1996 submittal, the above referenced project is conditionally approved for Building Permit. Prior to final Building Permit approval, the licensing agreement between AMAFCA and Kitchell Development Company must transpire.

If I can be of further assistance, please feel free to contact me at 768-3622.

Sincerely,

Lisa Ann Manwill
Engineering Assoc./Hyd.

c: John Kelly - AMAFCA
Andrew Garcia
File



GRAPHIC SCALE IN FEET

250 0 500 1000



CITY OF Albuquerque

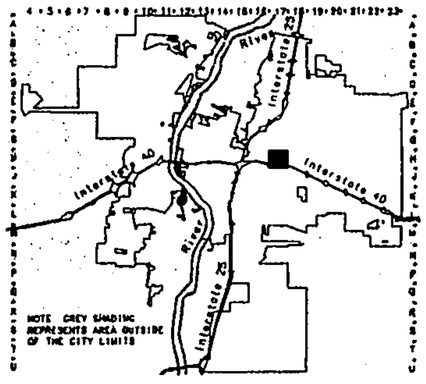
A lbuquerque G eographic I nformation S ystem

PLANNING DEPARTMENT

©Copyright 1995

JUL - 1 1996

Map Amended through September 01, 1995



LEGAL DESCRIPTION

T10N

R3E

SEC 11

UNIFORM PROPERTY CODE

1-017-068

H-17-Z

BOHANNAN-HUSTON INC.
COURTYARD I, 7500 JEFFERSON STREET, N.E. ALBUQUERQUE, NM 87109
TEL (505) 823-1000 FAX (505) 821-0892

LARRY W. HUSTON, C.P.
MICHIAL M. EMERY, P.E.
BRIAN G. BURNETT, P.E.
KERRY L. DAVIS, P.E.
LARRY A. LARRAÑAGA, P.E.
HOWARD C. STONE, P.E.
PRINCIPALS
WILLIAM L. VREEKE, P.E.
GORDON A. WALHOOD, JR., P.E.
MARY E. CARTER
GEORGE RADNOVICH, R.L.A.
SILAS V. SUAZO
JAMES R. TOPMILLER, P.E.

June 27, 1996

Ms. Lisa Ann Manwill
City of Albuquerque
Hydrology/Public Works Division
P.O. Box 1293
Albuquerque, NM 87103

Re: Submittal of Revised Drainage Report for Pavilions at San Mateo (H17-D54)

Dear Lisa:

The purpose of this letter is to transmit to you a revised Drainage Report for the referenced shopping center at Cutler and San Mateo Blvd. We are seeking building permit approval for the revised grading plan storm drainage system as outlined within the report.

The enclosed revisions contain no significant changes to the originally approved drainage concepts. The revisions primarily occur in grading, in part created by the need to provide additional cover over the AMAFCA box culverts, and to provide a more extensive on-site drainage system to reduce the drainage flows within several of the parking areas. The report provides calculations for all of these additional storm drain pipes. In the very near future we will submit to you the proposed work order plan set to construct the public facilities identified within this drainage report.

By copy of this letter, this report has been submitted to AMAFCA for their review as well as your office. If we can provide additional information, or answer any questions, please feel free to contact me or John Alexander at any time.

Sincerely,

James R. Topmiller
Vice President and Group Manager
Community Development and Planning Group

JRT/kc

Enclosures - Revised Drainage Report

cc: Don Glatthorn, Kitchell Development
Larry Webb, Kitchell Contractors
Bob Heiser, DCSW
John Kelly, AMAFCA w/report
John Alexander, BHI

RECEIVED
JUL - 1 1996

E:\CDP\95220\A22440\DRAIN REP SUBMITTAL.DOC - 6/28/96

CITY OF
Albuquerque

July 22, 1996

Martin J. Chávez, Mayor

James Topmiller
Bohannan Huston, Inc.
7500 Jefferson NE
Albuquerque, NM 87109

RE: PAVILIONS AT SAN MATEO (H17-D54) UPDATED DRAINAGE REPORT FOR BUILDING PERMIT. ENGINEER'S STAMP DATED 6-28-96.

Dear Mr. Topmiller:

Based on the updated information provided on your July 1, 1996 submittal, the above referenced project is conditionally approved for Building Permit. Prior to final Building Permit approval, the licensing agreement between AMAFCA and Kitchell Development Company must transpire.

If I can be of further assistance, please feel free to contact me at 768-3622.

Sincerely,

Lisa Ann Manwill
Engineering Assoc./Hyd.

c: John Kelly - AMAFCA
Andrew Garcia
File

DRAINAGE INFORMATION SHEET

PROJECT TITLE: PAVILIONS @ SAN MATED ZONE ATLAS/DRNG. FILE # H17-D54

DRB #: 96-141 EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: ~~TRACTS C & D, NETHERWOOD PARK ADDITION~~

CITY ADDRESS: TRACTS 1-7, PAVILIONS AT SAN MATEO PLAT

ENGINEERING FIRM: BOHANNAN HUSTON, INC. CONTACT: JAMES TOPMILLER or JOHN ALEXANDER

ADDRESS: 7500 JEFFERSON NE, ALB. NM 87109 PHONE: 823-1000

OWNER: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

ARCHITECT: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

✓ DRAINAGE REPORT (REVISED)

____ DRAINAGE PLAN

____ CONCEPTUAL GRADING & DRAINAGE PLAN

____ GRADING PLAN

____ EROSION CONTROL PLAN

____ ENGINEER'S CERTIFICATION

____ OTHER

PRE-DESIGN MEETING:

____ YES

____ NO

____ COPY PROVIDED

1) Need East + West Site grading plans

2) Blanket drainage Easements. + Easement for Shared private SD

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 (FOR REVISED PLAN)

____ CERTIFICATE OF OCCUPANCY APPROVAL

____ GRADING PERMIT APPROVAL

____ PAVING PERMIT APPROVAL

____ S.A.D. DRAINAGE REPORT

____ DRAINAGE REQUIREMENTS

____ OTHER _____ (SPECIFY)

JUL - 1 1996

DATE SUBMITTED: 6/28/96

BY: JAMES TOPMILLER

CITY OF
Albuquerque

June 26, 1996

Martin J. Chávez, Mayor

James Topmiller
Bohannan Huston, Inc.
7500 Jefferson NE
Albuquerque, NM 87109

RE: PAVILIONS AT SAN MATEO (H17-D54) DRAINAGE REPORT FOR CIRCUIT CITY FOUNDATION PERMIT. ENGINEER'S STAMP DATED 5-21-96.

Dear Mr. Topmiller:

Based on the information provided on your May 28, 1996 submittal, and addition information faxed on June 25, 1996 the Circuit City (building pad "A" in basin 2B) is approved for a Foundation Permit. Please keep in mind that the above referenced building is the only one approved for Foundation Permit.

If I can be of further assistance, please feel free to contact me at 768-3622.

Sincerely,

Lisa Ann Manwill
Engineering Assoc./Hyd.

c: John Kelly - AMAFCA
Andrew Garcia
File

CITY OF
Albuquerque

June 21, 1996

Martin J. Chávez, Mayor

James Topmiller
Bohannan Huston, Inc.
7500 Jefferson NE
Albuquerque, NM 87109

RE: PAVILIONS AT SAN MATEO (H17-D54) DRAINAGE REPORT FOR FINAL PLAT, FOUNDATION PERMIT, BUILDING PERMIT, GRADING PERMIT, AND PAVING PERMIT. ENGINEER'S STAMP DATED 5-21-96.

Dear Mr. Topmiller:

Based on the information provided on your May 28, 1996 submittal, the above referenced project is conditionally approved for Building Permit. Prior to final Building Permit approval, a licenseing agreement between AMAFCA and Kitchell Development Company must transpire.

If I can be of further assistance, please feel free to contact me at 768-3622.

Sincerely,

Lisa Ann Manwill
Engineering Assoc./Hyd.

c: John Kelly - AMAFCA
Bob Kane
Andrew Garcia
File

DRAINAGE INFORMATION SHEET

PROJECT TITLE: PAVILIONS @ SAN MATEO ZONE ATLAS/DRNG. FILE # H17/D54

DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: _____

CITY ADDRESS: _____

ENGINEERING FIRM: BOHANNAN HUSTON, INC. CONTACT: JAMES R. TOPMILLER

ADDRESS: 7500 JEFFERSON NE, ALB. NM 87109 PHONE: 823-1000

OWNER: KITCHELL DEVELOPMENT CO. CONTACT: DON GLATTHORN

ADDRESS: _____ PHONE: 602-222-5300

ARCHITECT: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

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: 5/24/96

BY: JAMES TOPMILLER

MAY 28 1996

BOHANNAN-HUSTON INC.
COURTYARD I, 7500 JEFFERSON STREET, N.E. ALBUQUERQUE, NM 87109
TEL (505) 823-1000 FAX (505) 821-0892

PRINCIPALS
LARRY W. HUSTON, C.P.
MICHIAL M. EMERY, P.E.
BRIAN G. BURNETT, P.E.
KERRY L. DAVIS, P.E.
LARRY A. LARRAÑAGA, P.E.
HOWARD C. STONE, P.E.
WILLIAM L. VREEKE, P.E.
GORDON A. WALHOOD, JR., P.E.
MARY E. CARTER
GEORGE RADNOVICH, R.L.A.
SILAS V. SUAZO
JAMES R. TOPMILLER, P.E.

May 22, 1996

Lisa Manwill
City of Albuquerque
Public Works Dept.
Hydrology Division
P.O. Box 1293
Albuquerque, NM 87103

Re: Pavilions at San Mateo, Grade Adjustments over AMAFCA Box (H17-D54)
Request for Rough Grading Sign-off on Plan and Building Permit

Dear Lisa:

The purpose of this letter is to transmit to you a revised grading plan for the Pavilions at San Mateo shopping center site. Your office approved a grading plan dated March 20, 1996 (letter enclosed) and this plan was taken to AMAFCA for their signature for grading prior to our seeking your rough grading sign-off.

However, in meeting with AMAFCA, grades were adjusted to provide a minor amount of additional cover over the AMAFCA box culvert on its southern reach through the site. The adjustments are indicated on the plan enclosed.

We request your rough grading sign-off so that we can begin grading operations in the immediate future. This enclosed plan can serve as your record for the files. The engineer's stamp has been revised to May 21, 1996 to reflect the date of the minor revisions requested by AMAFCA.

Also enclosed is the letter from AMAFCA stating that they will permit (grant encroachment) for the site's proposed utility lines, including public water and sewer lines.

If I can answer any questions or provide additional information, please feel free to contact me.

Sincerely,

James R. Topmiller
Vice President and Group Manager
Community Development and Planning Group

JRT/kc
Enclosure

cc: Don Glatthorn, Kitchell Development
Larry Webb, Kitchell Contractors

RECEIVED
MAY 28 1996

\\Mickey\sec_cdp\CDP\95220\A22440\GRADE ADJUSTMENTS.DOC - 5/23/96

GENEIVA MEEKER, CHAIR
DANIEL W. COOK, VICE-CHAIR
RONALD D. BROWN, SECRETARY-TREASURER
MICHAEL MURPHY, ASST. SECRETARY-TREASURER
TIM EICHENBERG, DIRECTOR

LARRY A. BLAIR
EXECUTIVE ENGINEER

Albuquerque
Metropolitan
Arroyo
Flood
Control
Authority

2600 PROSPECT N.E. - ALBUQUERQUE, N. M. 87107
TELEPHONE (505) 884-2215

FAXED 5-21-96

May 21, 1996

FAX (714)261-7083

Mr. Don Glatthorn
Kitchell Development Company
26 Executive Park, Suite 100
Irvine, California 92714-6779

Re: AMAFCA Embudo Arroyo Box Culvert Easement
Pavilions at San Mateo Project

Dear Mr. Glatthorn:

James Topmiller of Bohannan Huston, Larry Blair, AMAFCA Executive Engineer, and myself met this afternoon to discuss your proposal regarding building locations. After much discussion, AMAFCA has decided not to permit any building encroachments into the AMAFCA easement.

* AMAFCA will grant Kitchell an encroachment license for parking lots, landscape and irrigation in the easement. This encroachment license will state that the AMAFCA has no obligation to restore parking lots, curbs, landscaping or other structures placed in the easement in the event that they get destroyed during future reconstruction of the box.

* AMAFCA will also grant the City of Albuquerque encroachment licenses for both the sewer lines and waterlines that will be within the easement.

The approved plans for these (landscape and irrigation, paving, water and sewer) will serve as the attachments to these licenses. We assume that these plans will be prepared by BHI. AMAFCA will review and approve the plans, and then issue the encroachment licenses. This takes about one week after the plans approved

Please call if you have any questions.

Sincerely,
AMAFCA

John Kelly, P.E.
Field Engineer

cc James Topmiller Via FAX

GENEIVA MEEKER, CHAIR
DANIEL W. COOK, VICE-CHAIR
RONALD D. BROWN, SECRETARY-TREASURER
MICHAEL MURPHY, ASST. SECRETARY-TREASURER
TIM EICHENBERG, DIRECTOR

LARRY A. BLAIR
EXECUTIVE ENGINEER

Albuquerque
Metropolitan
Arroyo
Flood
Control
Authority

2600 PROSPECT N.E. · ALBUQUERQUE, N. M. 87107
TELEPHONE (505) 884-2215

FAX
9-26-95

September 25, 1995

Mr. Fred Aguirre
Public Works Department
Hydrology Division
City of Albuquerque
P.O. Box 1293
Albuquerque, New Mexico 87103

VIA FAX
and Interoffice Mail

Re: Pavilions at San Mateo
Grading and Drainage Plan

Dear Fred:

This is to confirm that AMAFCA has reviewed and approved the grading and improvements within the AMAFCA easement at the subject site.

Sincerely,
AMAFCA

John Kelly
Field Engineer

cc Karen Banks, BHI Via FAX

cc: File 95220.40
John Griggs, Kitchell Development
Dave Dekker, DCSW
James Topmiller

cc: Don Glatthorn

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 23, 1996

James Topmiller
Bohannan Huston, Inc.
7500 Jefferson NE
Albuquerque, NM 87109

RE: PAVILIONS AT SAN MATEO (H17-D54) DRAINAGE REPORT FOR FINAL PLAT, FOUNDATION PERMIT, BUILDING PERMIT, GRADING PERMIT, AND PAVING PERMIT. ENGINEER'S STAMP DATED 3-20-96.

Dear Mr. Topmiller:

Based on the information provided on your March 26, 1996 submittal, the above referenced project is conditionally approved for Final Plat and Building Permit. Prior to final approval, the following item must be addressed:

1. Written concurrence from AMAFCA.

2. At locations where you are redirecting the two sanitary sewer lines, easements must be granted. It appears that the only place to move the existing lines is into AMAFCA's easement. Permission from AMAFCA will be required.

If I can be of further assistance, please feel free to contact me at 768-3622.

Sincerely,

Lisa Ann Manwill
Engineering Assoc./Hyd.

c: Joe Kelly - AMAFCA
Bob Kane
Andrew Garcia
File

THE CITY OF ALBUQUERQUE IS AN EQUAL OPPORTUNITY/REASONABLE ACCOMMODATION EMPLOYER

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Pavilions @ Sandhills ZONE ATLAS/DRNG. FILE # H17/D54

DRB # 96-141 EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: Tracts C & D, Landa Place Subdivision, Heatherwood Park Addn.

CITY ADDRESS: _____

ENGINEERING FIRM: BOHANNAN- HUSTON INC. CONTACT: John Alexander

ADDRESS: 7500 JEFFERSON NE, ALB. NM 87109 PHONE: 823-1000

OWNER: Kitchell Dev. CONTACT: John Gruger

ADDRESS: 26 Executive Park PHONE: 714/261-1227

ARCHITECT: Irvine CA 92714 CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT

__✓__ DRAINAGE PLAN

____ CONCEPTUAL GRADING & DRAINAGE PLAN

__✓__ GRADING PLAN

____ EROSION CONTROL PLAN

____ ENGINEER'S CERTIFICATION

____ OTHER

1) No Stamp on date or sig this drawing.

2) What about other drawings

PRE-DESIGN MEETING:

____ YES

____ NO

____ COPY PROVIDED

AUG - 5 1996

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

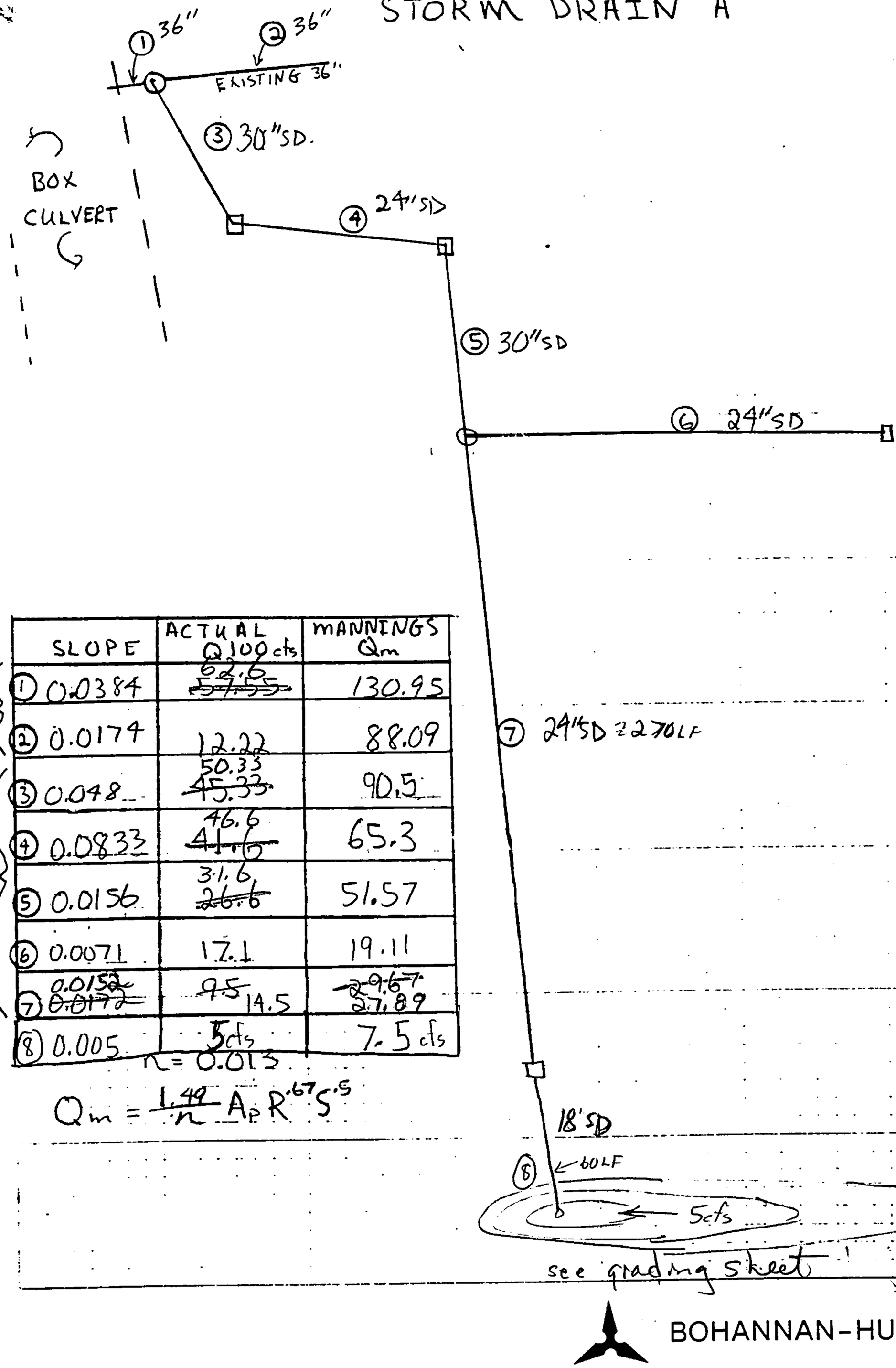
____ DRAINAGE REQUIREMENTS

__✓__ OTHER Updated Grading Plan (SPECIFY)

DATE SUBMITTED: 8/2/96

BY: John Alexander by Mary Snyder

STORM DRAIN 'A'



	SLOPE	ACTUAL Q100 cfs	MANNINGS Qm
EXISTING	① 0.0384	62.6 ~~57.55~~	130.95
	② 0.0174	12.22	88.09
PROPOSED PRIVATE	③ 0.048	50.33 ~~45.33~~	90.5
	④ 0.0833	46.6 ~~41.6~~	65.3
	⑤ 0.0156	31.6 ~~26.6~~	51.57
	⑥ 0.0071	17.1	19.11
	⑦ ~~0.0152~~ ~~0.0172~~	~~9.5~~ 14.5	~~9.67~~ 27.89
	⑧ 0.005	5cfs	7.5 cfs

n = 0.013

$$Q_m = \frac{1.49}{n} A_p R^{.67} S^{.5}$$

see grading sheet

BOHANNAN-HUSTON INC.

PROJECT NAME PAVILIONS SHEET ____ OF ____

PROJECT NO. C95210A2440 BY JCA DATE 6-26-96

SUBJECT ____ CH'D ____ DATE 6

PAVILIONS AT SAN MATEO

***** HYDRAULIC GRADE LINE CALCULATIONS FOR STORM LINE 'A' *****

07/31/96

FROM:: EXISTING CBC

TO:: PRIVATE INLET NUMBER 12

Station	Structure	Diam.	Q	Area	Vel.	K	Sf	Length	MH Dia.	JNCT Angle	Hf	Hb	Hj	Hmh	Ht	Total Losses	HGL(dn)	HGL(up)	Low Point	HV	EGL(dn)	EGL(up)
0+90	EXIST CBC								0.00	0.00		0.00	0.00	0.00	0.00	0.00	5166.80	5166.80	5170.00	1.22	5168.02	5168.02
		36	62.6	7.07	8.86	667	0.0088	10.00			0.09					0.09						
1+00	EXST. MH								6.00	0.00		0.00	0.60	0.00	0.01	0.61	5166.89	**5167.08**	5175.40	1.63	5168.11	5168.72
		30	50.4	4.91	10.26	410	0.0151	57.70			0.87					0.87						
1+58	INLET #9								0.00	0.00		0.00	0.00	0.00	0.07	0.07	5167.95	**5166.23**	5175.70	3.42	5169.59	5169.65
		24	46.6	3.14	14.83	226	0.0424	24.80			1.05					1.05						
1+82.5	INLET #10								0.00	0.00		0.00	0.00	0.00	0.11	0.11	5167.29	**5170.17**	5177.50	0.64	5170.70	5170.81
		30	31.6	4.91	6.44	410	0.0059	94.00			0.56					0.56						
2+76.5	MH #6								6.00	0.00		0.00	0.80	0.00	0.13	0.93	5170.73	**5171.97**	5179.30	0.33	5171.37	5172.30
		24	14.5	3.14	4.62	226	0.0041	273.00			1.12					1.12						
2+76.5	INLET #11								0.00	0.00		0.00	0.00	0.00	0.07	0.07	5173.09	**5173.36**	5183.60	0.12	5173.42	5173.48
		18	5.0	1.77	2.83	105	0.0023	60.00			0.14					0.14						
2+76.5	)ITCH INLET								0.00	0.00		0.00	0.00	0.00	0.00	0.00	5173.50	**5173.62**	5185.50	0.00	5173.62	5173.62
		18.00																				

MANNINGS n 0.013

PAVILION HGL

BOHANNAN-HUSTON INC.
ENGINEERS ▪ PLANNERS ▪ PHOTOGRAMMETRISTS ▪ SURVEYORS ▪ LANDSCAPE ARCHITECTS
COURTYARD I, 7500 JEFFERSON NE, ALBUQUERQUE, NM 87109 TEL (505) 823-1000 FAX (505) 821-0892

CLIENT/COURIER TRANSMITTAL

To: Lisa Ann Manwill
Hydro Dept.
P.W. Division
COA

Requested By: John Alexander
Date: 8-1-96
Time Due: ☐ This A.M. ☒ This P.M.
☐ Rush ☐ By Tomorrow
Job No.: Pavilion at San Mateo
Job Name: C95220 AA 2440

DELIVERY VIA

☒ Courier ☐ Federal Express
☐ Mail ☐ UPS
☐ Other

PICK UP

Item:

ITEM NO.	QUANTITY	DESCRIPTION
	1	Drainage Report Revisions
	2	Hydr. Grade line Calcs.
	1	Plan & Profile Sheet
	1	Cover letter

COMMENTS / INSTRUCTIONS

AUG - 5 19

Received By: Charlene Martell Date: 8/1/96 Time: 340

Misc/Courier Rqst Form 10/94

BOHANNAN-HUSTON INC.
COURTYARD I, 7500 JEFFERSON STREET, NE ALBUQUERQUE, NM 87109-4355
TEL (505) 823-1000 FAX (505) 821-0892

July 31, 1996

Ms. Lisa Ann Manwill
City of Albuquerque
Hydrology/Public Works Division
P.O. Box 1293
Albuquerque, NM 87103

Re: Amended Drainage Report

Dear Lisa:

With regards to our recent conversation about the Pavilions at San Mateo, I am submitting to you changes that have been amended to the drainage report. Please review these and insert them into your copy of the report. These changes have also been reflected on the revised grading plan. The revised grading plan mylar is in the Pavilions at San Mateo construction plan set which is currently being routed for signatures.

If all the license agreement issues and grading issues have been addressed by the time you get them, I would greatly appreciate your signatures on the mylars. If you have any additional comments or questions, please feel free to contact me or James Topmiller.

Sincerely,

John Alexander

John Alexander, E.I.
Community Development
and Planning Group

JA/rac

Enclosures

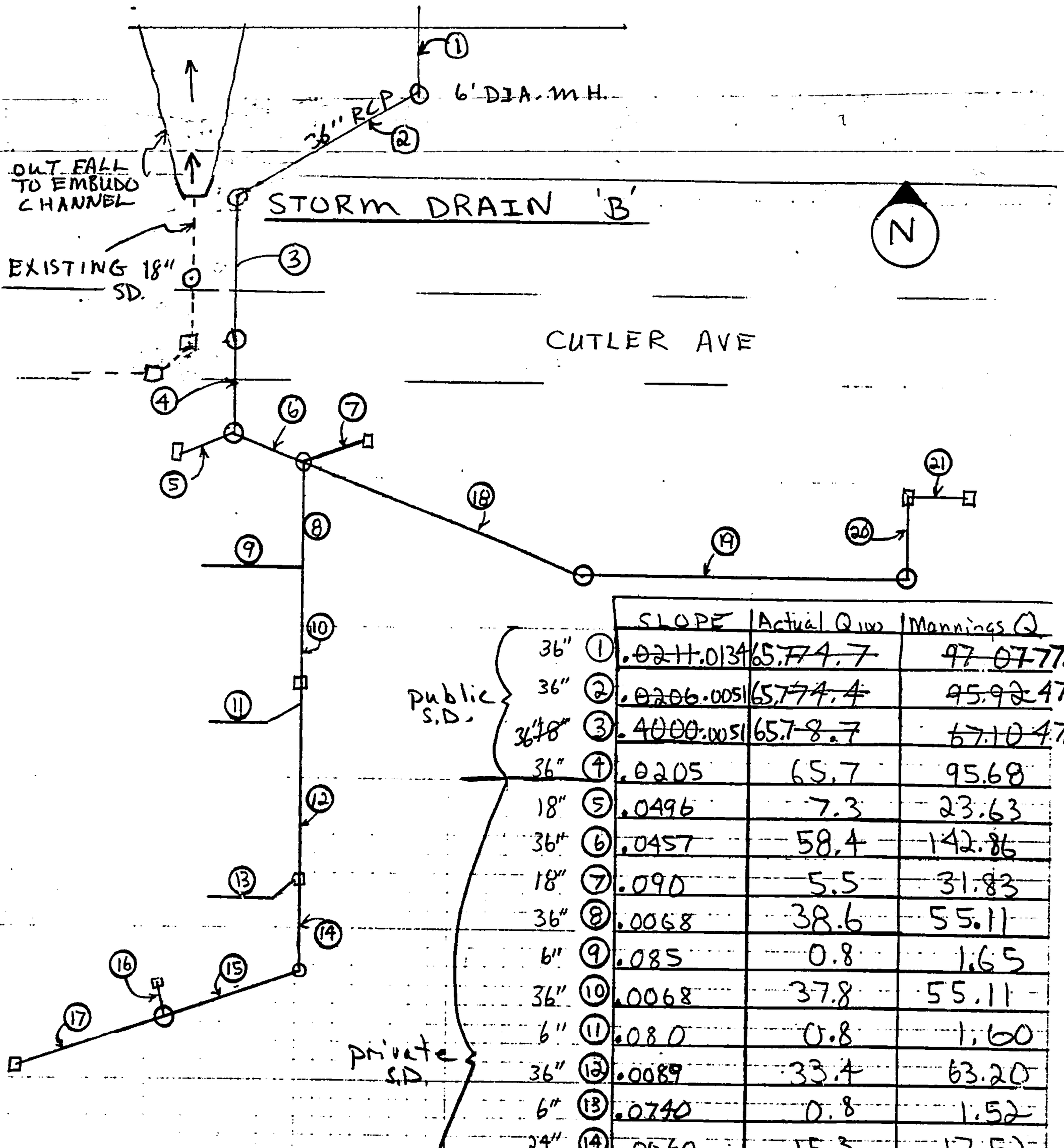
cc: Don Glatthorn, Kitchell Development Co.
James Topmiller, BHI

- 5

E:\cdp\95220\a22440\rpt-chgs.doc - 8/1/96

PRINCIPALS
LARRY W. HUSTON, C.P. — KERRY L. DAVIS, P.E. — GEORGE RADNOVICH, R.L.A. — WILLIAM L. VREEKE, P.E.
MICHIAL M. EMERY, P.E. — LARRY A. LARRAÑAGA, P.E. — SILAS V. SUAZO — GORDON A. WALHOOD, JR., P.E.
BRIAN G. BURNETT, P.E. — HOWARD C. STONE, P.E. — JAMES R. TOPMILLER, P.E. — MARY E. CARTER

EMBUDO CHANNEL



		SLOPE	Actual Q 100	Mannings Q
36"	①	.0211 .0134	65.7 74.7	97 07 77.4
36"	②	.0206 .0051	65.7 74.4	95.92 47.9
36 18"	③	.4000 .0051	65.7 8.7	67.10 47.9
36"	④	.0205	65.7	95.68
18"	⑤	.0496	7.3	23.63
36"	⑥	.0457	58.4	142.86
18"	⑦	.090	5.5	31.83
36"	⑧	.0068	38.6	55.11
6"	⑨	.085	0.8	1.65
36"	⑩	.0068	37.8	55.11
6"	⑪	.080	0.8	1.60
36"	⑫	.0089	33.4	63.20
6"	⑬	.0740	0.8	1.52
24"	⑭	.0060	15.3	17.52
24"	⑮	.0053	14.8	16.47
10"	⑯	.0061	1.3	1.70
24"	⑰	.0133	13.5	23.00
18"	⑱	.0393	14.3	21.03
18"	⑲	.0254 .0217	14.3 ✓	16.91 15.43
24"	⑳	.0050	14.3	15.99
24"	㉑	.0103	14.1 ✓	22.96
18"		.0200	14.1	15.2

Public S.D.

private S.D.

Pressure Flow

$n = .013$

$$Q_m = \frac{1.49}{n} A R^{.67} S^{.5}$$

BOHANNAN-HUSTON INC.

PROJECT NAME Check Pipe Capacities SHEET ____ OF ____

PROJECT NO. PAVILIONS BY JCH DATE 6-25-96

SUBJECT ____ CH'D ____ DATE 7

PAVILIONS AT SAN MATEO
***** HYDRAULIC GRADE LINE CALCULATIONS FOR STORM LINE 'B' *****
FROM: OUT FALL AT EMBUDO CHANNEL
TO: MH#1 @ STA. 4+35

07/31/96

AB 5 - 5

Station	Structure	Diam.	Q	Area	Vel.	K	Sf	Length	MH Dia.	JNCT Angle	Hf	Hb	Hj	Hmh	Ht	Total Losses	HGL(dn)	HGL(up)	Low Point	HV	EGL(dn)	EGL(up)
1.00	OUT FALL								0.00	0.00		0.00	0.00	0.00	0.00	0.00	5153.00	**5153.00**	5155.50	1.34	5154.34	5154.34
		36	65.7	7.07	9.29	667	0.0097	41.00			0.40					0.40						
1+44	MH #4								6.00	45.00		0.19	0.00	0.07	0.00	0.26	5153.40	**5153.65**	5163.46	1.34	5154.74	5155.00
		36	65.7	7.07	9.29	667	0.0097	67.00			0.65					0.65						
2+17	MH #3								6.00	45.00		0.19	0.00	0.07	0.00	0.26	5154.30	**5154.56**	5162.12	1.34	5155.65	5155.90
		36	65.7	7.07	9.29	667	0.0097	131.00			1.27					1.27						
3+54	MH #2								6.00	0.00		0.00	0.00	0.07	0.00	0.07	5155.83	**5155.90**	5163.00	1.34	5157.17	5157.24
		36	65.7	7.07	9.29	667	0.0097	75.50			0.73					0.73						
4+35	MH #1								6.00	0.00		0.00	0.00	0.00	0.00	0.00	5156.63	**5156.63**	5164.10	1.34	5157.97	5157.97
		36			MANNINGS n		0.013															

PAVILION HGL

H-175

DELETED

Vacated Adams St.

PLAN
SCALE: 1"=10'-0"

SECTION
SCALE: 1"=10'-0"

SECTION
SCALE: 1/2"=1'-0"

SECTION
SCALE: 1/2"=1'-0"

PLAN
SCALE: 1"=5'-0"

New Construction — Existing Construction

Curb & Gutter Expansion Joint
4'x6' Sidewalk
Transition from 0" to 6" high
Berm
6" Concrete Slab
Riprap
Exp. Joint
Build 6"x15' Cut off wall
Standard Curb & Gutter
Taper Curb from 0"to 6"
New Asphalt Paving
Warning Posts spaced @ 4'-6" O.C.
1'-0" Deep Cut off wall
Existing inlet structure
Flow line
Slope
Type 'C' Inlet
Type 'D' Inlet
New 12" D.I. pipe
New 18" RCP
Existing Rundown
Existing Surface at ℄
Finish Grade at ℄
Type of pipe
6" Conc. Cyl. Water Line
Weepholes at each corners formed with 2" ϕ Galvanized pipe Inv. 59.35 provide 2 Cu. ft. of gravel each pipe back of headwall
Wire tied rock Riprap
Warning Post
6" high curb
6" Curb
Barm
Build under seperate Item
Riprap detail
6" Conc. slab w/ #4 @ 16 each way
6" Conc. Slab w/ #4 @ 16 each way
R.O.W. Line
R.O.W. Line Bevel Curb 45°
Bevel Curb 45°
Sta. 87+62.85 Cutter Inc.
Cutline Beyond
Prime Coat
2" Asphaltic Concrete
2"ϕ Galv. pipe
4"ϕ diagonal around pipe
6" Conc. slab #4 @ 16 E.W.
2"ϕ Cont.
#4 @ 16" E.W.
#4 @ 10"
#4 @ 16
#4 @ 12
#4 @ 10"
#4 @ 16
2"ϕ Cont.
#4 @ 16
#4 @ 10"
#4 @ 10"
2"ϕ Cont.
#4 @ 16
#4 @ 12
#4 @ 10"
#4 @ 16
#4 @ 16
#4 @ 10"

001
BOHANNAN HUSTON
505 821 0892
06/26/96 07:51

Post-it® Fax Note 7671 | Date 6/26 | # of pages ▶ 1
To Lisa Maxwell | From James Top
Co./Dept. COA | Co. 13th
Phone # Heyday | Phone # 823-1000
Fax # 768-3629 | Fax # 821-0892

EXISTING 18" STORM SEWER TO BE REMOVED AND EXSITING INLETS TO BE CONNECTED TO NEW 36" RCP STORM DRAIN.

ASBUILT EXISTING SAS MH INV.=47.07

ASBUILT EXISTING SD INLET INV.=59.66

ASBUILT EX. 36"W T/P=60.28

North

JEFFERSON

ASBUILT EXISTING SAS MH INV.=55.51

ASBUILT EXISTIN RIM=7[illegible] INV.=62.42 INV.(W)=62.31

INV.=

CUTLER AVE.

85'-0" R.O.W.

CUTLER AVE

BASIN E3
1.85 acres
Q_{100}=8.70 cfs

Q_{100}=73.83cfs

ASBUILT EXISTING SD INLET INV.=61.50

EXISTING WATER SERVICE LEADS

S89°32'56"E 974.40

TYPE 'D' DBL INLET

Q_{100}=58.62cfs

TYPE 'D' DBL INLET

Q_{100}=25.02cfs

P5
FF=5171

TYPE 'D' INLET

Q_{100}=10.19cfs

BASIN 2
2.35 acres
Q_{100}=10.19 cfs

EXISTING PUBLIC SANITARY SEWER EASEMENT (ASSUMED)

BASIN 2B
5.17 acres
Q_{100}=18.62 cfs
A
FF=5168

CIRCUIT CITY

BASIN 2A
5.77 acres
Q_{100}=25.02 cfs

BASIN 1A
0.56 acres
Q_{100}=2.43 cfs
B/C
FF=5177.33

ASBUILT EXISTING S RIM=84.00 INV.=66.33
D
FF=5180

WASHINGTON AVE.

EXISTING LANDSCAPED R.O.W.

420.42'

PROPERTY BOUNDARY S 0°14"W 1050.66

Q_{100}=20cfs
NOTE: PREVIOUS REPORTS (H-17/D6 & H-17/D54) USE DIFFERENT OFFSITE FLOWS (19.2cfs & 3.4 cfs); THEREFORE

PHASE I

PHASE II

7'± HIGH RETAINING WALL

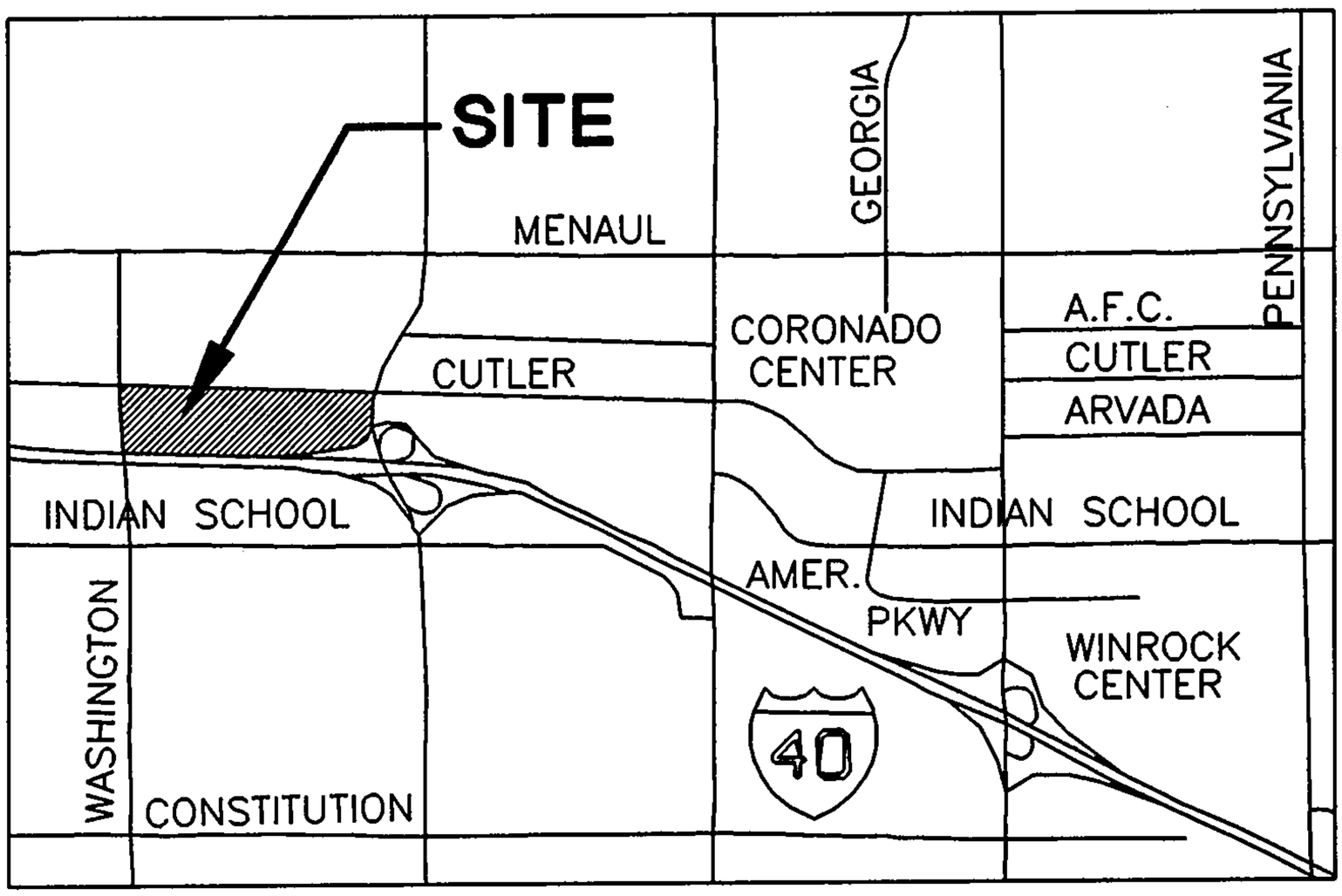
4'± HIGH RETAINING ON R.O.W.

A

INTERSTATE

USA
Circuit City is located adjacent to Washington Ave. (for west side of site).
thanx. James T.

6/25/96



VICINITY MAP

NOT TO SCALE

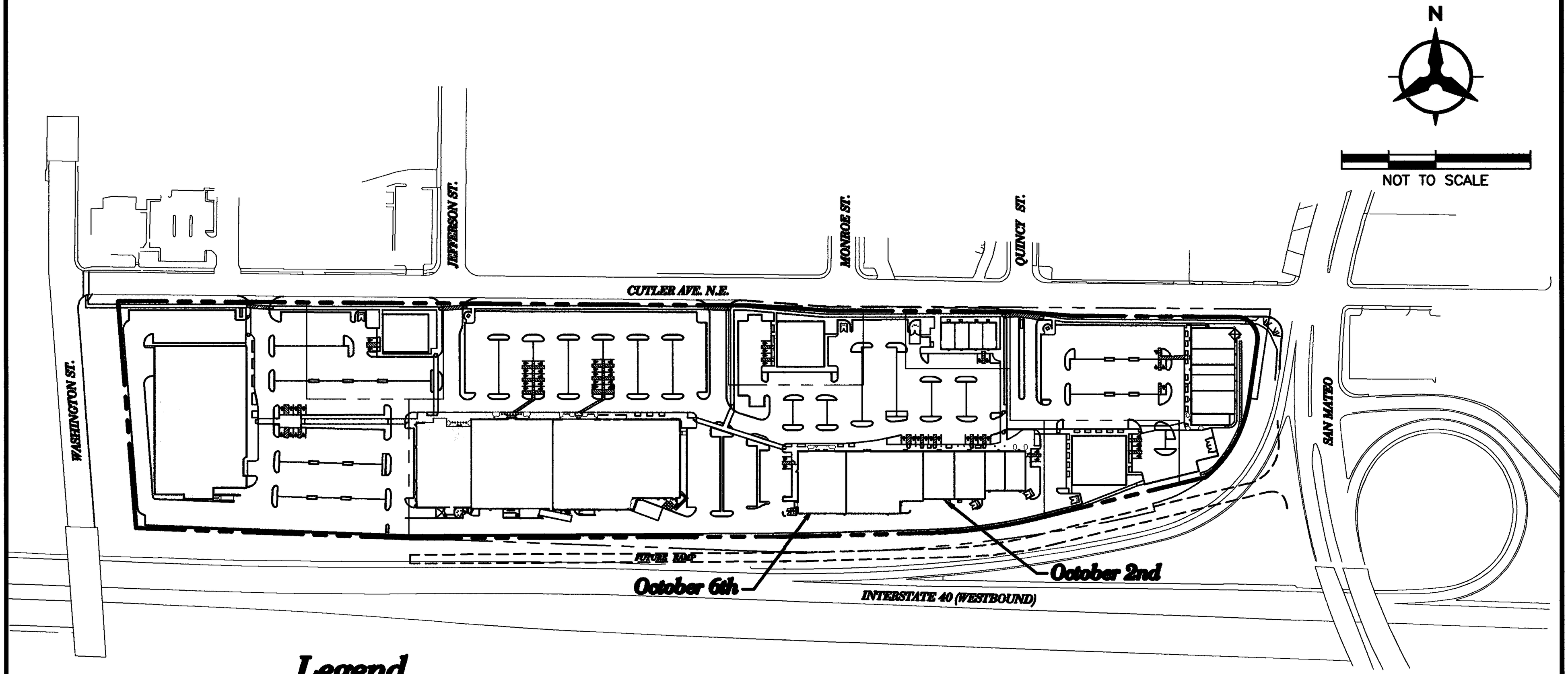
H-17-Z

RECEIVED
OCT 02 1997
HYDROLOGY SECTION

Bohannan Huston

Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109

ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS LANDSCAPE ARCHITECTS



Legend

- Buildings with Certificate of Occupancy
- Buildings seeking Certificate of Occupancy *(See plan above for approximate date)*
- Future tenants

RECEIVED
OCT 02 1997
HYDROLOGY SECTION

The Pavilions at San Mateo
Certificate of Occupancy Status

October 2nd, 1997

Bohannan ▲ Huston
Courtyard One
7500 JEFFERSON NE
Albuquerque
NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS
SURVEYORS LANDSCAPE ARCHITECTS

Filename: bhi-main\95220\cdp\c32440-site revision\dwg\misc\EXHIBIT.dwg
Xref: CRMBERG.dwg, EX.dwg

BOHANNAN HUSTON

Courtyard One

7500 JEFFERSON NE

Albuquerque

NEW MEXICO 87109

voice 505.823.1000

fax 505.821.0892

October 15, 1998

Mr. Bernie Montoya
City of Albuquerque
Hydrology Division/PWD
P.O. Box 1293
Albuquerque, NM 87103

Re: Submittal of Drainage Certification, Pad 4 of the Pavilions at San Mateo, 4800 Cutler Avenue

Dear Bernie:

We are submitting the drainage certification for the permanent certificate of occupancy on Pad 4 of the Pavilions at San Mateo. By this submittal we are certifying that the site drainage has been completed in substantial compliance with the approved grading plan, stamped August 6, 1996. This submittal addresses your comments made in the letter dated June 10, 1997, a copy of which is enclosed for your convenience.

As you can see, the amount of Pad 4's certification is quite small. I have verified the "as-built" top of curb elevations are in accordance with the design, and the drainage in the Pad 4 vicinity is as designed.

With the information above, we request that the drainage certification be approved for Pad 4. I have also enclosed a color exhibit for your reference. There will be one more drainage certification submittal in the future before Phase II is complete. If I can answer any questions or provide additional information, please feel free to contact me at any time.

Sincerely,
Bohannan Huston

John Alexander

John Alexander, P.E.
Project Manager
Community Development
and Planning Group

JA/am
Enclosures - Drainage Certification
Color Exhibit
Copy of Letter dated June 10, 1997

cc: Kurt Kurtti, Kitchell Development (w/encls)
Andrew Garcia, City of Albuquerque (encl: copy of 6/10/97 letter only)
James Topmiller, Bohannan Huston (encl: copy of 6/10/97 letter only)

P:\95220\cdp\c32492-dmg cert\corres\Pad4.doc

RECEIVED BHI JUN 12 1997

CITY OF
Albuquerque

Martin J. Chávez, Mayor

June 10,1997

John Alexander
Bohannan Huston, Inc.
7500 Jefferson NE
Albuquerque, New Mexico 87109

RE: ENGINEER CERTIFICATION FOR THE PAVILIONS AT SAN MATEO PHASE II
(H17-D54) CERTIFICATION STATEMENT DATED 5/22/97

Dear Mr. Alexander:

Based on the information provided on your May 29,1997 submittal, Engineer Certification for the above referenced site is acceptable.

Please be advised that the pads that have not been built on will require Certification have they have been built on.

If I can be of further assistance, please feel free to contact me at 924-3986.

C: Andrew Garcia
File

Sincerely

Bernie J. Montoya CE
Associate Engineer

CITY OF
Albuquerque

November 9,1998

John Alexander PE
Bohannan-Huston, Inc
7500 Jefferson NE
Albuquerque, New Mexico 87109

RE: ENGINEER CERTIFICATION FOR PAD #4 @ THE PAVILIONS @ SAN MATEO
(H17-D54) CERTIFICATION STATEMENT DATED 10/16/98

Dear Mr. Alexander:

Based on the information provided on your October 16,1998 submittal, Engineer Certification for the above referenced site is acceptable.

If I can be of further assistance, please feel free to contact me at 924-3986.

C: Andrew Garcia
File

Sincerely

Bernie J. Montoya CE
Associate Engineer

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Pavilions at San Mateo ZONE ATLAS/DRNG. FILE # H-17-Z/D54

DRB #: 96-141 EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: The Pavilions at San Mateo, Tracts 1A thru 7A.

CITY ADDRESS: 4800 Cutler Ave (Pad 4)

ENGINEERING FIRM: BOHANNAN-HUSTON INC. CONTACT: John Alexander

ADDRESS: 7500 JEFFERSON NE, ALB. NM 87109 PHONE: (505) 823-1000

OWNER: Kitchell Dev. Corp CONTACT: Kurt Kurtti

ADDRESS: 30250 RANCHO VIEJO ROAD - SUITE B SAN JUAN CAPISTRANO, CA 92675 PHONE: (949) 487-2771

ARCHITECT: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

_____ DRAINAGE REPORT
_____ DRAINAGE PLAN
_____ FINAL GRADING & DRAINAGE PLAN
_____ GRADING PLAN
_____ EROSION CONTROL PLAN
__X__ 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 SUBD. APPROVAL
_____ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
_____ SECTOR PLAN APPROVAL
_____ FINAL PLAT APPROVAL
_____ FOUNDATION PERMIT APPROVAL
_____ BUILDING PERMIT APPROVAL
__X__ CERTIFICATE OF OCCUPANCY APPROVAL
_____ GRADING PERMIT APPROVAL
_____ PAVING PERMIT APPROVAL
_____ S.A.D. DRAINAGE REPORT
_____ DRAINAGE REQUIREMENTS
_____ SUBDIVISION CERTIFICATION
_____ OTHER _____ (SPECIFY)

DATE SUBMITTED: 10-16-98

BY: John C Alexander

Revised 02/98

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

April 23, 1996

James Topmiller
Bohannan Huston, Inc.
7500 Jefferson NE
Albuquerque, NM 87109

RE: PAVILIONS AT SAN MATEO (H17-D54) DRAINAGE REPORT FOR FINAL PLAT, FOUNDATION PERMIT, BUILDING PERMIT, GRADING PERMIT, AND PAVING PERMIT. ENGINEER'S STAMP DATED 3-20-96.

Dear Mr. Topmiller:

Based on the information provided on your March 26, 1996 submittal, the above referenced project is conditionally approved for Final Plat and Building Permit. Prior to final approval, the following item must be addressed:

1. Written concurrence from AMAFCA.

2. At locations where you are redirecting the two sanitary sewer lines, easements must be granted. It appears that the only place to move the existing lines is into AMAFCA's easement. Permission from AMAFCA will be required.

If I can be of further assistance, please feel free to contact me at 768-3622.

Sincerely,

Lisa Ann Manwill
Engineering Assoc./Hyd.

c: Joe Kelly - AMAFCA
Bob Kane
Andrew Garcia
File

THE CITY OF ALBUQUERQUE IS AN EQUAL OPPORTUNITY/REASONABLE ACCOMMODATION EMPLOYER

DRAINAGE INFORMATION SHEET

PROJECT TITLE: PAVILIONS @ SAN MATEO ZONE ATLAS/DRNG. FILE #: H17/D54

DRB #: 96-141 EPC #: Z-95-92 WORK ORDER #:

LEGAL DESCRIPTION: TRACTS C&D, LAND OF PEACE FOUNDATION, NETHERWOOD ADDITION

CITY ADDRESS:

ENGINEERING FIRM: BOHANNAN HUSTON, INC. CONTACT:

ADDRESS: 7500 JEFFERSON NE, ALB. NM 87109 PHONE: 823-1000

OWNER: KITCHELL DEVELOPMENT CO. CONTACT: DON GLATTHORN

ADDRESS: 26 EXECUTIVE PARK PHONE:

ARCHITECT: DCSW CONTACT: BOB HEISER

ADDRESS: PHONE:

SURVEYOR: CONTACT:

ADDRESS: PHONE:

CONTRACTOR: CONTACT:

ADDRESS: PHONE:

TYPE OF SUBMITTAL:

X DRAINAGE REPORT
X DRAINAGE PLAN
___ CONCEPTUAL GRADING & DRAINAGE PLAN
X 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
X FINAL PLAT APPROVAL
X FOUNDATION PERMIT APPROVAL
X BUILDING PERMIT APPROVAL
___ CERTIFICATE OF OCCUPANCY APPROVAL
X GRADING PERMIT APPROVAL
X PAVING PERMIT APPROVAL
___ S.A.D. DRAINAGE REPORT
___ DRAINAGE REQUIREMENTS
___ OTHER (SPECIFY)

RECEIVED
MAR 2 [illegible]

DATE SUBMITTED: 3/22/96

BY: PATTE FREEDENBURG

BOHANNAN-HUSTON INC.
COURTYARD I, 7500 JEFFERSON STREET, N.E. ALBUQUERQUE, NM 87109
TEL (505) 823-1000 FAX (505) 821-0892

PRINCIPALS
RRY W. HUSTON, C.P
CHIAL M. EMERY, P.E.
BRIAN G. BURNETT, P.E.
KERRY L. DAVIS, P.E.
LARRY A. LARRAÑAGA, P.E.
HOWARD C. STONE, P.E.
WILLIAM EKE, P.E.
GORDON A. WALHOOD, JR., P.E.
MARY E. CARTER
GEORGE RADNOVICH, R.L.A.
SILAS V. SUAZO
JAMES R. TOPMILLER, P.E.

March 22, 1996

Ms. Lisa Ann Manwill
Hydrology Division
Public Works Department
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

Mr. John Kelly
AMAFCA
2600 Prospect Avenue NE
Albuquerque, NM 87107

Re: Conceptual Grading and Drainage Plan for The Pavilions at San Mateo, Tracts C & D, Land of Peace Foundation, Netherwood Addition (H17/D54).

Dear Lisa and John:

The purpose of this letter is to transmit to you the drainage report for The Pavillions at San Mateo.

This report is submitted to support approval by Design Review Committee of the construction plans for this project, grading and building permit approval

If we can provide any additional information, please feel free to contact me at any time.

Sincerely,

DANE FREDENBURG

Dane Fredenburg, E.I.
Community Development and Planning Group

DF/KB/dc
Enclosures

cc: James Topmiller, Bohannan-Huston Inc.
Karen Banks, Bohannan-Huston Inc.

I:\CDP\95220\A2421\MANWILL.LTR-3/22/96

RECEIVED
MAR 26 1996
HYDROLOGY

Post-it® Fax Note 7671	Date 4/22	# of pages ▶ 3
To Lisa Maxwell	From James Top	
Co./Dept. COA	Co. BHI	
Phone # X 3622	Phone # 823-1000	
Fax # 768-3629	Fax #	

DRB Case No. 96-141
DRC Project No.
Date Submitted: April 16, 1996

Figure 12

INFRASTRUCTURE LIST

EXHIBIT "A"
TO SUBDIVISION IMPROVEMENTS AGREEMENT
DEVELOPMENT REVIEW BOARD (DRB) REQUIRED INFRASTRUCTURE LIST
for
Site Development Plan Approval of

THE PAVILIONS AT SAN MATEO
(TRACTS C & D, LAND OF PEACE FOUNDATION, NETHERWOOD ADDITION)

Following is a summary of Public/Private Infrastructure required to be constructed or financially guaranteed to be constructed for the above development. This summary is not necessarily a complete listing. During the design process, if the City determines that appurtenant items have not been included in the summary, those items will be included in the listing and related financial guarantee, if the items normally are Owner's responsibility. In addition, any unforeseen items which arise during construction which are necessary to complete the project and which normally are the Owner's responsibility are the responsibility of the Owner and will be included in the financial guarantee provided to the City.

Size	Type Improvement	Location	From	To
	OFFSITE TRANSPORTATION IMPROVEMENTS			
	RECONSTRUCTION OF MEDIAN TO ALLOW FOR EXTENDED WESTBOUND TO SOUTHBOUND LEFT TURN LANE	MENAUL BOULEVARD	WASHINGTON STREET	100' EAST OF WASHINGTON ST.
	INTERSECTION IMPROVEMENTS INCLUDING THE DOUBLE LEFT TURN NORTH TO WESTBOUND, SINGLE LEFT TURN WEST TO SOUTHBOUND, SINGLE LEFT TURN EAST TO NORTHBOUND & APPURTENANCES, RIGHT TURN LANE EAST TO NORTHBOUND (INCLUDING SIGNAL MODIFICATION) AND RIGHT TURN LANE SOUTH TO WESTBOUND.	INTERSECTION OF SAN MATEO BOULEVARD & CUTLER AVENUE		
	INTERSECTION IMPROVEMENTS AND SIGNAL MODIFICATIONS TO PROVIDE FOR EASTBOUND TO NORTHBOUND DOUBLE LEFT TURN	INTERSECTION OF SAN MATEO BOULEVARD & INDIAN SCHOOL ROAD		
	INTERSECTION IMPROVEMENTS AND SIGNAL MODIFICATIONS TO PROVIDE FOR EASTBOUND TO NORTHBOUND DOUBLE LEFT TURN	INTERSECTION OF WASHINGTON STREET & INDIAN SCHOOL ROAD		

Size	Type Improvement	Location	From	To
	- THE INTERSECTION SHALL BE PROVIDED WITH SIGNALIZATION WHEN WARRANTED BY THE OPERATIONS TRAFFIC ENGINEER.	INTERSECTION OF WASHINGTON STREET & CUTLER AVENUE		
	RESTRIPING AND SIGNAGE TO PROVIDE A CONTINUOUS LEFT TURN LANE AND TO PROHIBIT PARKING ON BOTH SIDES OF THE STREET.	CUTLER AVENUE	WASHINGTON STREET	SAN MATEO BOULEVARD
	PUBLIC STREET LIGHTS AS PER DPM REQUIREMENTS			

- TO BE BONDED NOW AND CONSTRUCTED WHEN DETERMINED BY TRAFFIC OPERATIONS. BASES AND CONDUIT NEED TO BE CONSTRUCTED WITH DEVELOPMENT.

SANITARY SEWER - ONSITE RELOCATION

18" DIA.	EXISTING INTERCEPTOR SEWERLINE RELOCATION INCL. MH'S AND SERVICE LINES	TRACT C	60' NORTH OF TRACT C SOUTH BOUNDARY	280' NORTH OF TRACT C SOUTH BOUNDARY
12" DIA.	EXISTING SEWERLINE RELOCATION INCL. MH'S AND SERVICE LINES	TRACT D	295' NORTH OF TRACT D SOUTH BOUNDARY	455' NORTH OF TRACT D SOUTH BOUNDARY

WATER - ONSITE PUBLIC LINE

10" DIA.	ONSITE PUBLIC WATERLINE LOOP INCL. FIRE HYDRANTS, WATER VALVES AND SERVICE LINES TO AND INCLUDING METERS	TRACTS C & D	CONNECTION IN CUTLER AVENUE APPROX. 350' EAST OF WASHINGTON STREET	CONNECTION IN CUTLER AVENUE APPROX. 520' WEST OF SAN MATEO BOULEVARD

OFFSITE DRAINAGE IMPROVEMENTS

18" DIA.	REMOVE EXISTING RCP STORM DRAIN LINE	50' COA STORM DRAIN EASEMENT	CUTLER AVENUE	AMAFCA EMBUDO CHANNEL
36" DIA.	NEW RCP STORM DRAIN LINE, RECONNECTION TO EXISTING INLETS, AND PIPE PENETRATION TO CHANNEL	50' COA STORM DRAIN EASEMENT	CUTLER AVENUE	AMAFCA EMBUDO CHANNEL

DRB Case No. 95-535
DRC Project No.
Date Submitted:

CERTIFICATION OF GRADING AND DRAINAGE IMPROVEMENTS, INCLUDING PRIVATE RETAINING WALLS, PERIMETER WALLS AND SLOPE PAVING IS REQUIRED AS A CONDITION OF SIA AND FINANCIAL GUARANTEE RELEASE.

Prepared by: _____
Print Name: JAMES TOPMILLER
Firm: BOHANNAN-HUSTON, INC.

DEVELOPMENT REVIEW BOARD MEMBER APPROVAL

Traffic Date	Water Date	Parks & Rec Date
City Engineer/AMAFCA Date	DRB Chairman Date	

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

August 18, 1995

Karen Banks
Bohannan Huston, Inc.
7500 Jefferson NE
Albuquerque, NM 87109

RE: PAVILIONS AT SAN MATEO (H17-D54) CONCEPTUAL GRADING & DRAINAGE PLAN FOR SITE DEVELOPMENT PLAN FOR BUILDING PERMIT APPROVAL. ENGINEER'S STAMP DATED 8-10-95.

Dear Ms. Banks:

Based on the information provided on your August 15, 1995 submittal, the above referenced project is approved for Site Development Plan for Building Permit.

Prior to Building Permit Approval, please provide the following:

1. All requisite calculations for pipe size and capacities. Be certain that there is downstream capacity for your developed flows. You will need AMAFCA's concurrence.

2. Because you are tieing into existing storm sewer in City Right-of Way, you will need to get SO-19 approval.

3. Please label Adams Street on plan sheet.

If I can be of further assistance, please feel free to contact me at 768-3622.

Sincerely,

Lisa Ann Manwill
Engineering Assoc./Hyd.

c: Andrew Garcia
File

THE CITY OF ALBUQUERQUE IS AN EQUAL OPPORTUNITY/REASONABLE ACCOMMODATION EMPLOYER

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Pavilions at San Mateo ZONE ATLAS/DRNG. FILE # H17 / D54

DRB #: _____ EPC #: 9592 WORK ORDER #: _____

LEGAL DESCRIPTION: Tracts C and D, Land of Peace Foundation, Netherwood Park Addition

CITY ADDRESS: _____

ENGINEERING FIRM: BOHANNAN HUSTON, INC. CONTACT: Karen Banks

ADDRESS: 7500 JEFFERSON NE, ALB. NM 87109 PHONE: 823-1000 X205

OWNER: Kitchell Development CONTACT: John Griggs

ADDRESS: 26 Executive Park, Ste #100, Irvine, CA 92714 PHONE: _____

ARCHITECT: Design Collaborative Southwest CONTACT: David Dekker

ADDRESS: 105 4th St, SW, Alb, NM 87102 PHONE: 843-9639

SURVEYOR: Surv-Tek CONTACT: Garry Hugg

ADDRESS: _____ PHONE: 897-3366

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

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)

RECEIVED
AUG 15 1995
HYDROLOGY DIV.

DATE SUBMITTED: 8/10/95

BY: Karen Banks

BOHANNAN-HUSTON INC.
COURTYARD I, 7500 JEFFERSON STREET, N.E. ALBUQUERQUE, NM 87109
TEL (505) 823-1000 FAX (505) 821-0892

PRINCIPALS

RRY W. HUSTON, C.P.
MICHIAL M. EMERY, P.E.
BRIAN G. BURNETT, P.E.
KERRY L. DAVIS, P.E.
LARRY A. LARRAÑAGA, P.E.
HOWARD C. STONE, P.E.
WILLIAM EEKE, P.E.
GORDON A. WALHOOD, JR., P.E.
MARY E. CARTER
GEORGE RADNOVICH, R.L.A.
SILAS V. SUAZO
JAMES R. TOPMILLER, P.E.

August 7, 1995

Mr. Fred Aguirre
Hydrology Division
Public Works Department
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

Mr. John Kelly
AMAFCA
2600 Prospect Avenue NE
Albuquerque, NM 87107

Re: Conceptual Grading and Drainage Plan for Tracts C and D, Land of Peace Foundation, Netherwood Park Addition.

Dear Fred and John:

The purpose of this letter is to transmit to you the Conceptual Grading and Drainage Plan for Tracts C and D, Land of Peace Foundation, Netherwood Park Addition, located on the northwest corner of San Mateo and I-40. A copy of this plan has been submitted to the City of Albuquerque and AMAFCA, simultaneously.

In this Conceptual Drainage Plan, we are proposing to drain Tracts C and D to separate outfalls of the Embudo Diversion Channel. Tract C will drain to the existing storm sewer in Adams Street right-of-way. Tract D will drain to the existing storm sewer in Cutler Avenue right-of-way that connects to the underground concrete box culverts crossing the site. For cross-reference, the Hydrology Division report number is H-17/D54 for the previous drainage plan for these tracts. If I can provide any additional information, please feel free to contact me at any time.

Sincerely,

Karen M. Banks

Karen M. Banks, E.I.
Community Development and Planning Group

KMB/sh
Enclosures

cc: John Griggs, Kitchell Development
David Dekker, Design Collaborative SW
James Topmiller, Bohannan-Huston Inc.

RECEIVED
AUG 15 1995

I:\CDP\9522040\AGUIRRE.LTR-8/7/95

FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

Ken Schultz
Mayor

UTILITY DEVELOPMENT DIVISION
HYDROLOGY SECTION
(505) 768-2650

December 16, 1987

Jackie McDowell
Chavez-Grieves Consulting Engineers, Inc.
3600-C Montgomery Boulevard, NE
Albuquerque, New Mexico 87109

RE: CONCEPTUAL GRADING & DRAINAGE PLAN OF I-40/SAN MATEO SITE
RECEIVED DECEMBER 4, 1987 FOR PRELIMINARY PLAT APPROVAL
(H-17/D54)

Dear Ms. McDowell:

Your memo dated December 3, 1987 adequately addresses my previous comments, therefore Preliminary Plat can be approved along with an Infrastructure Listing. The required sidewalk culvert in Lot 1 for the off-site flows must be included on the Infrastructure List as a Public Drainage item.

Prior to Final Plat sign-off by the City Engineer, the following items are required:

1. An executed Subdivision Improvements Agreement.

2. The required Infrastructures either built or bonded.

Detailed individual drainage plans will be required prior to any Building Permit approvals for the site.

If you have any questions, call me at 768-2650.

Cordially,

Roger A. Green, PE

Roger A. Green, P.E.
C.E./Hydrology Section

xc: H. Barker, Architect

RAG/bsj

CHAVEZ—GRIEVES / CONSULTING ENGINEERS, INC.

4600 MONTGOMERY N.E., BUILDING C, #101
ALBUQUERQUE, NEW MEXICO 87109
(505) 881-7376

December 3, 1987

RECEIVED
DEC 04 1987
HYDROLOGY SECTION

Mr. Roger Green, P.E.
CITY OF ALBUQ. P.W.D.
U.D.D./Hydrology Section
P.O. Box 1293
Albuquerque, New Mexico 87103

RE: CONCEPTUAL GRADING & DRAINAGE PLAN
FOR I-40/SAN MATEO SITE (H-17/D54)

Dear Roger:

In response to your letter dated November 12 1987, I offer the following:

1. The puplic off site flow rate through the northwest corner of Lot 1 is approximately 3.42 cfs. A public drainage easement across the northwest corner of Lot 1 will be shown on the final plat. The public off-site runoff will be routed through Lot 1 via a 12 inch wide sidewalk culvert.

2. Enclosed are the as-built drawings for the asphlat rundown along the vacated portion of Adams Street (V.O.-52-1971)

Capacity of asphalt rundown:

$$Q = 1.486\ A\ S^{5/3}\ n^{1/2}\ p^{2/3}$$

A = 40 (0.67) + 20 (0.4) = 34.80 s.f.
S = 0.0079
N = 0.017
P = 41.34 ft
Q = 241 cfs > req'd capacity
Required Capacity = runoff from; I-40, Lot 1, Lot 2 and Culter Avenue = 3.42 + 12.08 + 29.78 + 7.29 = 52.57 cfs.
Capacity of Cutler Avenue (40' street; S = 0.012) = 51 (2) = 102 cfs, Plate 22.3 D-2

3. The existing right-of-way for the existing concrete box culvert through the site will be labeled on the final plat.

If you have any further comments or questions, please call. Your timely response is appreciated.

Cordially,

CHAVEZ-GRIEVES CONSULTING ENGINEERS, INC.

Jackie S. McDowell

Jackie S. McDowell

JSM:vc

FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

Ken Schultz
Mayor

UTILITY DEVELOPMENT DIVISION
HYDROLOGY SECTION
(505) 768-2650

November 12, 1987

Jackie McDowell
Chavez-Grieves Consulting Engineers, Inc.
3600-C Montgomery Boulevard, NE
Albuquerque, New Mexico 87109

RE: CONCEPTUAL GRADING & DRAINAGE PLAN OF I-40/SAN MATEO SITE
RECEIVED OCTOBER 27, 1987 FOR PRELIMINARY PLAN AND SITE
DEVELOPMENT PLAN APPROVAL (H-17/D54)

Dear Jackie:

I have reviewed the above referenced submittal dated October 27, 1987 and have the following comments to be addressed prior to Preliminary Plat approval:

1. Quantify the off-site flows and show required public drainage easements and treatment across the corner of Lot 1.

2. Show the mentioned off-site asphalt rundown and provide capacity calculations for the swale and storm drain combination.

3. Label the existing right-of-way for the existing concrete box culvert through the site.

Since Preliminary Plat approval at DRB requires an approved Infrastructure List, this Grading and Drainage Plan must have enough details to identify all required infrastructures.

I concur with the overall drainage scheme, therefore any Site Development Plans required could be approved if consistent with this plan's drainage scheme.

If you have any questions, please call me at 768-2650.

Cordially,

Roger A Green, PE

Roger A. Green, P.E.
C.E./Hydrology Section

RAG/bsj

DRAINAGE INFORMATION SHEET

PROJECT TITLE: I-40/San Mateo Site ZONE ATLAS/DRNG.FILE #: H-17/D54

LEGAL DESCRIPTION: Tracts C & D, Netherwood Park Addn

CITY ADDRESS:

ENGINEERING FIRM: Chavez-Grieves CONTACT: Jackie McDowell

ADDRESS: 4600 C Montgomery PHONE: (505) 881-7376

OWNER: Peace Foundation CONTACT:

ADDRESS: PHONE:

ARCHITECT: H. Barker CONTACT: H. Barker

ADDRESS: 209 Gold Ave. PHONE: (505) 842-6789

SURVEYOR: N/A CONTACT:

ADDRESS: PHONE:

CONTRACTOR: N/A CONTACT:

ADDRESS: PHONE:

RECEIVED
OCT 27 1987
HYDROLOGY SECTION

PRE-DESIGN MEETING:

____ YES
X NO
____ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO.
EPC NO.
PROJ. NO.

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT
____ DRAINAGE PLAN
X CONCEPTUAL GRADING & DRAINAGE PLAN
____ GRADING PLAN
____ EROSION CONTROL PLAN
____ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

____ SKETCH PLAT APPROVAL
X PRELIMINARY PLAT APPROVAL
X SITE DEVELOPMENT PLAN APPROVAL
____ FINAL PLAT APPROVAL
____ BUILDING PERMIT APPROVAL
____ FOUNDATION PERMIT APPROVAL
____ CERTIFICATE OF OCCUPANCY APPROVAL
____ ROUGH GRADING PERMIT APPROVAL
____ GRADING/PAVING PERMIT APPROVAL
____ OTHER ____ (SPECIFY)

DATE SUBMITTED: 10/27/87

BY: Jackie McDowell

Bohannan ▲ Huston

CLIENT/COURIER TRANSMITTAL

BOHANNAN HUSTON
Courtyard One
7500 JEFFERSON NE
Albuquerque
NEW MEXICO 87109
voice 505.823.1000
fax 505.821.0892

To: Bernie Montoya
City of Albuquerque
600 2nd Street NW - 2nd Flr
Albuquerque, NM 87103

phone: 924-3986

Requested By: John Alexander

Date: October 16, 1998

Time Due: ☐ This A.M. ☒ This P.M.
☐ Rush _____ ☐ By Tomorrow

Job No.: 95220C3.2492 **Job Name:** Pavilions at San Mateo

DELIVERY VIA

☒ Courier ☐ Federal Express
☐ Mail ☐ UPS
☐ Other _____

PICK UP

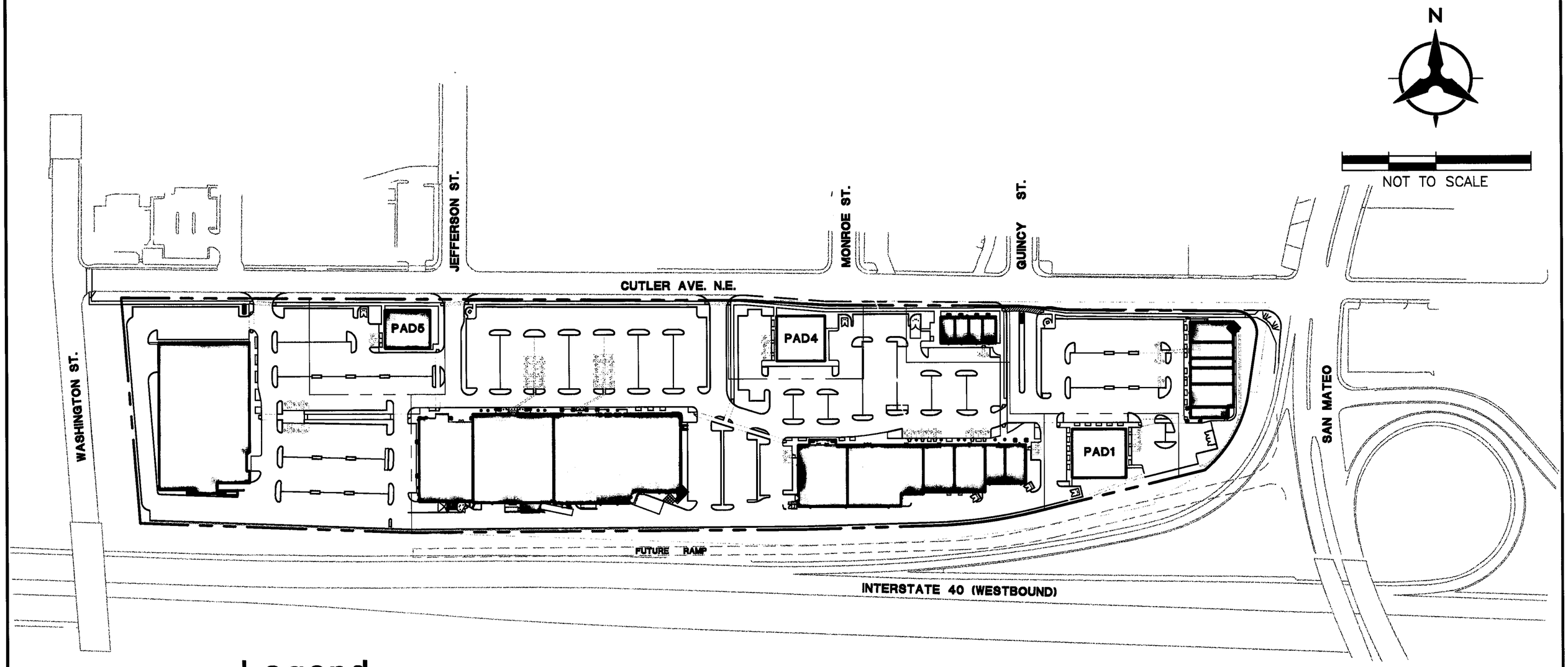
Item: _____
_____

ITEM NO.	QUANTITY	DESCRIPTION
1	1	Cover letter and copy of letter dated 6-10-97.
2	1	Color Exhibit.
3	1	Blueline of grading plan.
4	1	Zone atlas location map.
5	1	Drainage Information Sheet.

COMMENTS / INSTRUCTIONS

Thank you.

REC'D BY:_____ ***DATE:***_____ ***TIME:***_____



Legend

- Buildings with Certificate of Occupancy
- Building seeking Certificate of Occupancy
- Future tenant

The Pavilions at San Mateo
Certificate of Occupancy Status

October, 1998

Bohannan Huston

Courtyard One
7500 JEFFERSON NE
Albuquerque
NEW MEXICO 87109

ENGINEERS PLANNERS PHOTOGRAMMETRISTS
SURVEYORS SOFTWARE DEVELOPERS