



Brad Catanach  
<bradc@mercury.bern  
co.gov>

To: "SCalongne@cabq.gov" <SCalongne@cabq.gov>

02/11/00 01:43 PM

cc:  
Subject: RE: PWDN990025

We have already given the CO

> -----Original Message-----

> From: SCalongne@cabq.gov [SMTP:SCalongne@cabq.gov]

> Sent: Friday, February 11, 2000 11:31 AM

> To: Brad Catanach

> Subject: PWDN990025

>

> Brad,

> I have a submittal for Pat's Doors, PWDN990025. It is a certification plan  
> submitted for release of the Certificate of Occupancy.

> Is it ok with the County for me to approve?

> Let me know, ok?

> thanks, Susan

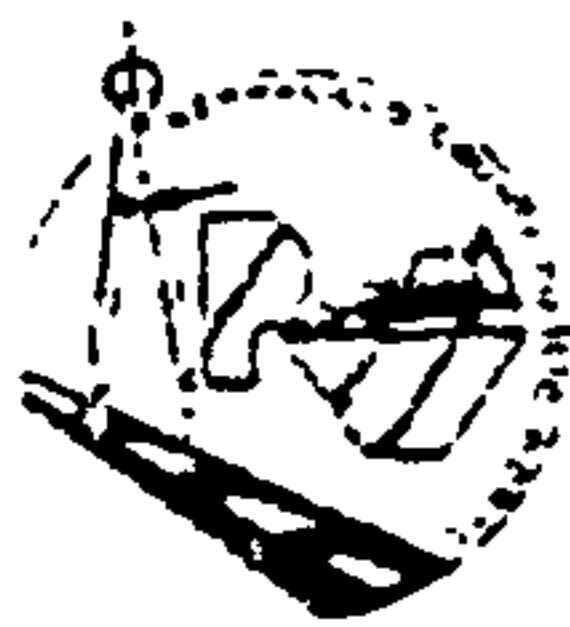
*County has issued the C.O.*

*Plan approved*

*No letter required*

*— SMC*

# BERNALILLO COUNTY



FP / SUSAN CALOGNE  
PWD SUBMITTAL

Use for all PWD applications EXCEPT Street Excavation

☐ NEW SUBMITTAL

☐ RESUBMITTAL

☒ FINAL SIGNOFF

TODAY'S DATE

CASE NO. **PWDN 990025**

OWNER

OWNER	Patrocino Cordova	PHONE (505) 877-7524	<b>P-13/D004</b>
MAILING ADDRESS	3611 Second Street SW	CITY Albuquerque ZIP 87105	

AGENT

AGENT / CONTRACTOR	Bernie J. Montoya	PHONE 877-4841
MAILING ADDRESS	4409 Karrol Rd SW	CITY Albuquerque ZIP 87121
STATE LICENSE NO.	EXP DATE	VOLUME
ARCHITECT/ENGINEER	Harold Bennett	LICENSE NO. 10776
		PHONE 877-4841

SITE INFORMATION

SITE ADDRESS / DIRECTIONS	3611 Second Street SW	ZONE ATLAS NO. P-13
LEGAL DESCRIPTION	TRACT B-1-B LANDS OF JOSEPH GREVEY	
		LOT SIZE 2.0 acres
EXISTING BUILDING(S) AND USE	1-013-053-497-500-105-09 PROPOSED BUILDING(S)	
UPC #	1-013-053-498-493-105-09	

## TYPE OF SUBMITTAL

- |  |  |
|--|--|
| <input type="checkbox"/> REPLAT  | <input type="checkbox"/> TRAFFIC IMPACT ANALYSIS / TRAFFIC STUDY |
| <input type="checkbox"/> MINOR SUBDIVISION                                 | <input type="checkbox"/> INFRASTRUCTURE LIST / DESIGN REVIEW     |
| <input type="checkbox"/> MAJOR SUBDIVISION                                 | <input type="checkbox"/> SPECIAL USE PERMIT                      |
| <input type="checkbox"/> CONSTRUCTION DRAWINGS                             | <input type="checkbox"/> BARRICADING PERMIT                      |
| <input type="checkbox"/> GRADING & DRAINAGE PLAN                           | <input type="checkbox"/> BUILDING PERMIT                         |
| <input checked="" type="checkbox"/> AS-CONSTRUCTED GRADING & DRAINAGE PLAN | <input type="checkbox"/> INSPECTION                              |
| <input type="checkbox"/> VARIANCE REQUEST                                  | <input checked="" type="checkbox"/> OTHER (Specify): AS-BUILT    |
| <input type="checkbox"/> LAND DIVISION                                     |  |

The issuance of a permit or a review or approval of plan specifications, computations, and shop drawings, shall not be interpreted to be a permit for, or an approval of any variance or violation of any of the provisions of any COUNTY or STATE codes, ordinances, standards, or policies. Nor shall such issuance of a permit or approval of plans, specifications, computations, and shop drawings prevent any authorized COUNTY representative or COUNTY inspector from thereafter requiring the correction of errors in said plans, specifications, computations, or shop drawings or from stopping construction operations which are being carried on thereunder when in violation of any COUNTY or STATE codes, ordinances, standards, or policies.

☐ Owner

☒ Agent

☐ Contractor

Signature

*Bernie J. Montoya*

Date

11/18/2000  
1/20/2000

COUNTY

BERNALILLO COUNTY USE ONLY	
CITY:	TOTAL FEE:
	Receipt No.:
	Received By:
	JAN 20 2000
	HYDROLOGY SECTION

# County of Bernalillo

State of New Mexico



## BOARD OF COUNTY COMMISSIONERS

STEVE D. GALLEGOS, CHAIRMAN  
DISTRICT 2  
KEN SANCHEZ, VICE CHAIRMAN  
DISTRICT 1  
TOM RUTHERFORD, MEMBER  
DISTRICT 3  
BARBARA J. SEWARD, MEMBER  
DISTRICT 4  
LES HOUSTON, MEMBER  
DISTRICT 5  
JUAN R. VIGIL, COUNTY MANAGER

DAVID K. ANDERSON, ASSESSOR  
JUDY D. WOODWARD, CLERK  
THOMAS J. MESCALL, PROBATE JUDGE  
JOE BOWDICH, SHERIFF  
ORLANDO VIGIL, TREASURER

2400 BROADWAY, S.E.  
ALBUQUERQUE, NEW MEXICO 87102  
PUBLIC WORKS (505) 843-1500

March 9, 1999

Harold L. Bennett, P.E.  
BJM Development Consultant  
4409 Karrol Road SW  
Albuquerque, New Mexico 87121

**RE:    *Grading and Drainage Plan for Pat's Doors, Tract B-1-B, Lands of Grevey (P13/D4)***  
***(PWDN-990025) Submitted for Building Permit Approval, Engineer's Stamp Dated***  
***2/9/99.***

Dear Mr. Bennett:

Based on the information provided in the submittal of February 9, 1999, the above referenced plan is approved for Building Permit release.

As you are aware, the Engineer's Certification is required prior to release of the Certificate of Occupancy for this site.

If you have any questions, please call me at 924-3982, or contact Brad Catanach at the County.

Sincerely,

A handwritten signature in cursive script, reading "Susan Calongne".

Susan M. Calongne, P.E.  
City/County Floodplain Administrator

c:    Brad Catanach, P.E., Bernalillo County Public Works Division

File

## DRAINAGE INFORMATION SHEET

3430

APPLICANT'S NAME: Pats Doors ZONE ATLAS/DRNG. FILE #: P13/D3  
DRB #: \_\_\_\_\_ EPC #: \_\_\_\_\_ WORK ORDER #: PWD N 99-0025  
LEGAL DESCRIPTION: TRACT B-1-B LANDS OF GREY  
CITY ADDRESS: 3603 2nd St SW.  
ENGINEERING FIRM: BJM Consulting CONTACT: Bernie J. Montoya  
ADDRESS: 4409 Karrol Rd SW. PHONE: 877-4841  
OWNER: Pat Cordova CONTACT: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_  
ARCHITECT: Jim Miller CONTACT: Jim Miller  
ADDRESS: \_\_\_\_\_ PHONE: 884-1255  
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  
☐ SUBDIVISION CERTIFICATION  
☐ OTHER \_\_\_\_\_ (SPECIFY)

DATE SUBMITTED: 2/8/99  
BY: B. Montoya

Revised 02/98

RECEIVED  
FEB 08 1999  
HYDROLOGY SECTION



# FAX

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
DEVELOPMENT AND BUILDING SERVICES  
(ONE STOP SHOP)

600 2<sup>ND</sup> STREET - PLAZA DEL SOL - 2<sup>ND</sup> FLOOR WEST  
FAX NO. 924-3864

DATE: 2-25-99

TIME: \_\_\_\_\_

NO. OF PAGES: 4  
(INCLUDING COVER PAGE)

TO: Brad

FROM: Susan

## COMMENTS:

Here are the Vicinity map & Flood map  
for Bernie Montoya's site.

I Believe all we need now is a pond  
Covenant - Let me know when you  
have it and I'll write the letter.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_

SUSAN

**DRAINAGE /GRADING PLAN**

**FOR**

**PAT'S DOORS**

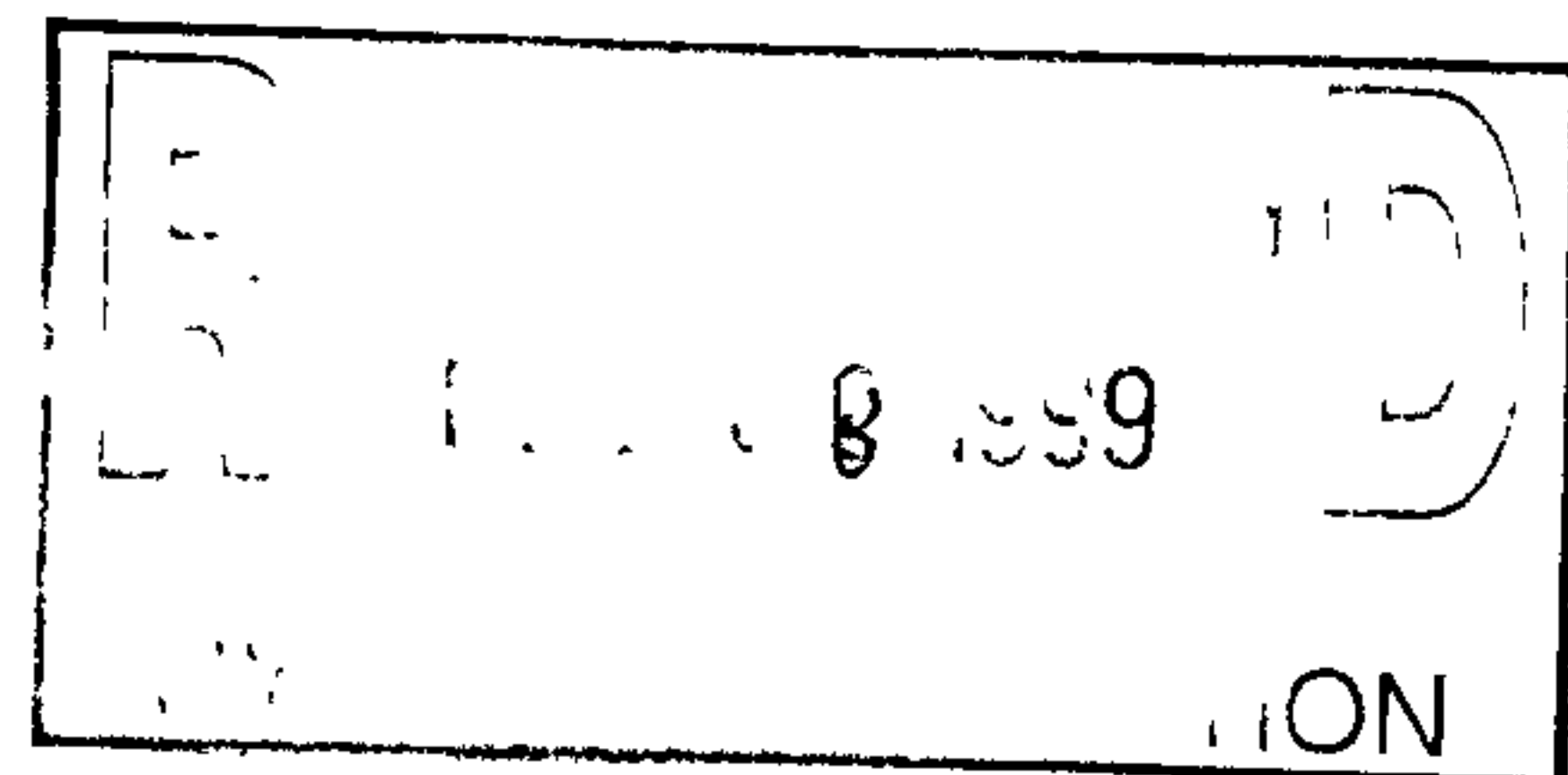
**ALBUQUERQUE , NEW MEXICO**

**PREPARED BY:**

**BJM DEVELOPMENT CONSULTANT**

4409 KARROL RD. SW  
ALBUQUERQUE , NEW MEXICO 87121

February 1999



## **DRAINAGE PLAN**

THE FOLLOWING ITEMS CONCERNING TRACT B-1-B, LANDS OF JOSEPH GREVEY, WITHIN SECTION 7, T9N, R3E, NMPM, BERNALILLO COUNTY, GRADING AND DRAINAGE PLAN ARE CONTAINED HEREON:

1. VICINITY MAP
2. GRADING AND DRAINAGE PLAN
3. FLOODMAP
4. DRAINAGE CALCULATIONS

## **EXISTING CONDITIONS**

AS SHOWN BY THE VICINITY MAP, THE SITE CONTAINS APPROXIMATELY 2.00 ACRES AND IS LOCATED SOUTH OF ROSSMOOR RD. SW AND SECOND STREET SW. THE SITE CURRENTLY IS UNDEVELOPED. THE SITE TOPOGRAPHY SLOPES FROM EAST TO WEST. THE SITE IS SPARSELY COVERED WITH MINIMAL NATIVE VEGETATION.

THERE IS CURRENTLY NO MASTER DRAINAGE PLAN FOR THIS AREA OF THE SOUTH VALLEY. ACCORDING TO THE FLOOD INSURANCE RATE MAP, PANEL 35001C0343D, DATED SEPTEMBER 20, 1996, A PORTION OF THE SITE LIES IN A 100-YEAR FLOOD PLAIN DESIGNATED ZONE AH (ELEVATION 4927)

## **PROPOSED CONDITIONS**

AS SHOWN BY THE PLAN, THE PROJECT CONSISTING OF A 30,000 SF OFFICE/WAREHOUSE BUILDING AND ASSOCIATED PARKING AND LANDSCAPING. THE PLAN SHOWS PROPOSED ELEVATIONS REQUIRED TO PROPERLY GRADE THE REQUIRED PAVING AND BUILDING IMPROVEMENTS. THE MAIN FRONT PARKING LOT WILL BE ASPHALT PAVED, PAVING IS PROPOSED ALONG THE SERVICE AREAS. LANDSCAPING IS PROPOSED ALONG THE EAST SIDE OF THE SITE WHICH IS ALSO THE STREET FRONTAGE.

ALL DRAINAGE FLOWS WILL BE MANAGED ON-SITE AND DIVERTED TO THE WEST PORTION OF THE SITE WHERE A COMMON RETENTION POND WILL BE SHARED BY BOTH TRACT B-1-A AND TRACT B-1-B.

THE CALCULATIONS WHICH APPEAR HEREON, ANALYZE BOTH THE EXISTING AND DEVELOPED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL RUN-OFF FOR PEAK FLOWS AND STORM DURATION FOR VOLUME REQUIREMENTS. THE PROCEDURE FOR 40 ACRES AND SMALLER BASINS AS SET FORTH IN THE REVISION OF SECTION 22.7 HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA, DATED JANUARY 1993, THIS DPM PROCEDURE IS USED FOR ANALYZING ON-SITE FLOWS.

## **DOWNSTREAM CAPACITY**

THERE ARE CURRENTLY NO DOWNSTREAM DRAINAGE IMPROVEMENTS IN EXISTENCE TO SERVE THIS SITE, RETENTION PONDING IS PROPOSED.

## **EROSION CONTROL**

TEMPORARY EROSION CONTROL WILL BE REQUIRED DURING THE CONSTRUCTION PHASE TO PROTECT DOWNSTREAM PROPERTY AND IMPROVEMENTS FROM SEDIMENT AND UNCONTROLLED RUN-OFF.

## **OFF-SITE FLOWS**

OFF-SITE FLOWS FROM SECOND ST. ENTER THE SITE AND WILL CONTINUE TO BE ACCEPTED ONTO THE SITE.

08-Jan-99 BASIN "A"

Calculations: Total Basin

Calculations are based on "Section 22.2 Hydrology of the Development Process Manual, Volume 2, Design Criteria for the City of Albuquerque, New Mexico, January 1993 - basins < 40 acres".

Precipitation Zone = 2

Depth at 100-year, 6-hour storm: (Table A-2)

P = 2.35 inches

Land Treatments:

From Table 5 - Percent Treatment D

Single Family Residential =

$7 \cdot \text{SQR}((N \cdot N) + (5 \cdot N))$

where N = units/acre

N = ----- = -----, ok < 6

N = 0.00

Therefore Percent Treatment D 0.00%

(includes local streets)

Areas: (acres)	Existing	Proposed
Treatment A	1.04	0.00
Treatment B	0.00	0.00
Treatment C	0.00	0.17
Treatment D	0.00	0.88
Total (acres) =	1.04	1.04

Volume	100 year Existing	100 year Proposed	10 year Existing	10 year Proposed	2 year Existing	2 year Proposed
Volume (acre-feet) =	0.05	0.17	0.01	0.11	0.00	0.06
Volume (cubic feet) =	2,007	7,434	492	4,582	0	2,608

Total Q(p), cfs:	100 year Existing Q(p)*A	100 year Proposed Q(p)*A	10 year Existing Q(p)*A	10 year Proposed Q(p)*A	2 year Existing Q(p)*A	2 year Proposed Q(p)*A
Treatment A	1.63	0.00	0.40	0.00	0.00	0.00
Treatment B	0.00	0.00	0.00	0.00	0.00	0.00
Treatment C	0.00	0.52	0.00	0.28	0.00	0.10
Treatment D	0.00	4.13	0.00	2.76	0.00	1.63
Total Q (cfs) =	1.63	4.64	0.40	3.04	0.00	1.73



08-Jan-99 BASIN "B"

Calculations: Total Basin

Calculations are based on "Section 22.2 Hydrology of the Development Process Manual, Volume 2, Design Criteria for the City of Albuquerque, New Mexico, January 1993 - basins < 40 acres".

Precipitation Zone = 2

Depth at 100-year, 6-hour storm: (Table A-2)

P = 2.35 inches

Land Treatments:

From Table 5 - Percent Treatment D

Single Family Residential =

$7 \cdot \text{SQR}((N \cdot N) + (5 \cdot N))$

where N = units/acre

N = ----- = -----, ok < 6

N = 0.00

Therefore Percent Treatment D 0.00%

(includes local streets)

Areas: (acres)	Existing	Proposed
Treatment A	0.96	0.00
Treatment B	0.00	0.00
Treatment C	0.00	0.24
Treatment D	0.00	0.72
Total (acres) =	0.96	0.96

Volume	100 year Existing	100 year Proposed	10 year Existing	10 year Proposed	2 year Existing	2 year Proposed
Volume (acre-feet) =	0.04	0.15	0.01	0.09	0.00	0.05
Volume (cubic feet) =	1,841	6,499	452	3,938	0	2,184

Total Q(p), cfs:	100 year Existing Q(p)*A	100 year Proposed Q(p)*A	10 year Existing Q(p)*A	10 year Proposed Q(p)*A	2 year Existing Q(p)*A	2 year Proposed Q(p)*A
Treatment A	1.49	0.00	0.36	0.00	0.00	0.00
Treatment B	0.00	0.00	0.00	0.00	0.00	0.00
Treatment C	0.00	0.76	0.00	0.41	0.00	0.14
Treatment D	0.00	3.37	0.00	2.25	0.00	1.33
Total Q (cfs) =	1.49	4.12	0.36	2.66	0.00	1.48

### **BASIN "A"**

$$\begin{aligned} V(10 \text{ DAY}) &= V(360) + A("D") \times (P10 - P360) / 12 \\ &= .17 + .1173 = .2873 \text{ AC-FT} = 12,515 \text{ CF} \end{aligned}$$

$$\begin{aligned} V(\text{REQUIRED}) &= V(10 \text{ DAY}) - V(\text{EXISTING}) \\ &= 12,515 \text{ CF} - 2007 \text{ CF} + 7830 \text{ CF (FROM DRB ELECTRIC SITE)} \\ &= 18,338 \end{aligned}$$

### **WEIR OPENING ANALYSIS FOR POND "A" FROM BASIN "A"**

$$L = Q / CH^{3/2} \quad C=3.0 \quad H=.5 \quad Q=4.64 \text{ CFS}$$

$$L = 4.64 / 3.0 \times .5^{3/2} = 4.37' \text{ USE } 4.5'$$

### **BASIN "B"**

$$\begin{aligned} V(10 \text{ DAY}) &= V(360) + A("D") \times (P10 - P360) / 12 \\ &= .15 + .096 = .246 \text{ AC-FT} = 10,716 \text{ CF} \end{aligned}$$

$$\begin{aligned} V(\text{REQUIRED}) &= V(10 \text{ DAY}) - V(360) \\ &= 10,716 \text{ CF} - 1841 \text{ CF} = 8,875 \text{ CF} \end{aligned}$$

### **RECTANGULAR ORFICE ANALYSIS FOR SIDEWALK CULVERT FROM BASIN B**

3.0' SIDEWALK CULVERT

$$Q = CA (2GH)^{1/2} \quad Q = .6 \times 1.5 \times 5.67 = 5.1 \text{ CFS} > 4.12 \text{ CFS OK}$$

### **SIZE POND FOR BASIN A & BASIN B**

BASIN A + BASIN B - SELF PONDING LANDSCAPE AREAS

$$18,338 \text{ CF} + 8,875 \text{ CF} - 577 \text{ CF} = 26,636 \text{ CF REQUIRED}$$

$$\text{SIZE POND } 50 \times 150 \times 3.6' = 27,000 \text{ CF} > 26,636 \text{ CF OK}$$

Rectangular Channel Analysis & Design  
Open Channel - Uniform flow

Worksheet Name: Pats Doors Drainage

Comment: Plan3.0

Solve For Discharge

Given Input Data:

Bottom Width.....	3.00 ft
Manning's n.....	0.014
Channel Slope....	0.0040 ft/ft
Depth.....	0.50 ft

Computed Results:

Discharge.....	5.24 cfs
Velocity.....	3.49 fps
Flow Area.....	1.50 sf
Flow Top Width...	3.00 ft
Wetted Perimeter.	4.00 ft
Critical Depth...	0.46 ft
Critical Slope...	0.0053 ft/ft
Froude Number....	0.87 (flow is Subcritical)





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SEPTEMBER 20 1996

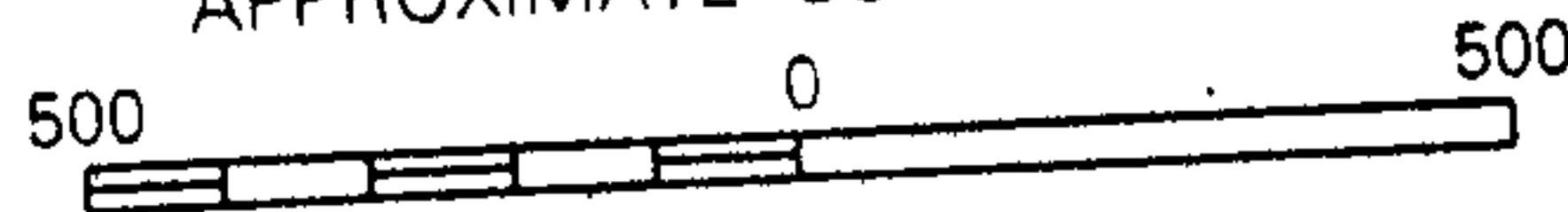
EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL.

Refer to the FLOOD INSURANCE RATE MAP EFFECTIVE DATE shown on this map to determine when actuarial rates apply to structures in zones where elevations or depths have been established

To determine if flood insurance is available contact an insurance agent or call the National Flood Insurance Program at (800) 638-6620



APPROXIMATE SCALE IN FEET



ZONE AH  
(EL 4961)

NATIONAL FLOOD INSURANCE PROGRAM

**FIRM**

**FLOOD INSURANCE RATE MAP**

**BERNALILLO COUNTY,  
NEW MEXICO AND  
INCORPORATED AREAS**

**PANEL 343 OF 825**

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS  
COMMUNITY

NUMBER PANEL SUFFIX

BERNALILLO COUNTY,  
UNINCORPORATED AREAS

350001 0343 D

**MAP NUMBER  
35001C0343 D**

**EFFECTIVE DATE:  
SEPTEMBER 20, 1996**



Federal Emergency Management Agency

