HYDROLOGY F18/D14B ONE PLAN

F 18- D14B

1 PLAN

FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

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

September 10, 1986

Robert Sykes, P.E.
Wilson & Company
Post Office Box 3548
Albuquerque, New Mexico 87190

RE: REVISED PHASING PLAN AND TEMPORARY SILTING POND FOR SEAGULL OFFICE PLAZA (F-18/D14B) REVISION DATE SEPTEMBER 2, 1986

Dear Mr. Sykes:

Based on the information provided on your resubmittal of September 2, 1986, the above referenced phasing scheme is acceptable. Please advise your client that it will be their responsibility to assure that no damage or silting takes place within the existing lined channel. Rick Duran will be advised to release temporary Certificates of Occupancy on Phase I. Please make sure that Rick is contacted before the Certificates of Occupancy are picked up.

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

Cordially,

Bernie J. Montoya

Bernie J. Montoya, P.E.
Engineering Assistant

BJM/bsj

WILSON & COMPANY
ENGINEERS & ARCHITECTS

505 345-5345

ENGINEERS
ARCHITECTS
PLANNERS

Office Location... 6611 GULTON CT., N.E. ■ ALBUQUERQUE, NEW MEXICO 87109 ■ An Equal Opportunity Employer

Mailing Address... P.O. BOX 3548 ■ ALBUQUERQUE, NEW MEXICO 87190

2 September 1986

RECEIVED
SEP 02 1986
HYDROLOGY SECTION

Mr. Bernie J. Montoya, C.E.
Hydrology Section
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

Re: Phasing Plan and Temporary Silting Pond
for Seagull Office Plaza (F18/D14B)
WCEA File: 85-533A

Dear Mr. Montoya:

In response to your letter dated 26 August 1986 we have completed the following:

1. Clearly defined the limits between Phase I and Phase II.

2. We have removed the 4" diameter pipe and replaced it with a 3.5' x 0.5' weir to discharge to the concrete lined channel.

The 100-year peak runoff from the project during Phase II construction is 10.58 cfs. We propose a silt basin with a capacity of 1060 cu. ft. There is a note requiring the contractor to maintain the basin during construction.

Please let me know if you have any further questions.

WILSON & COMPANY

Robert F. Sykes, P.E.
Partner

enc.

kl

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Seagull Office Plaza ZONE ATLAS/DRNG. FILE #: F18/D14B

LEGAL DESCRIPTION: Tract A-1, Summary Plat Tract A-1 & CA-1 Limited Partnership Tract

CITY ADDRESS: 5801 Osuna NE

ENGINEERING FIRM: Wilson & Co. CONTACT: Bob Sykes

ADDRESS: PO Box 3548, Alb NM 87190 PHONE: 345-5525

OWNER: Bailey Blomfield Co CONTACT: Wm. J. Bailey

ADDRESS: 5801 Osuna NE, Alb, NM 87109 PHONE: 881-0607

ARCHITECT: CONTACT:

ADDRESS: PHONE:

SURVEYOR: CONTACT:

ADDRESS: PHONE:

CONTRACTOR: CONTACT:

ADDRESS: PHONE:

RECEIVED SEP 02 1986 HYDROLOGY SECTION

PRE-DESIGN MEETING:

X YES

___ NO

___ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO. ___

EPC NO. ___

PROJ. NO. ___

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT

___ DRAINAGE PLAN

___ CONCEPTUAL GRADING & DRAINAGE PLAN

___ GRADING PLAN

X EROSION CONTROL PLAN

___ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

___ SKETCH PLAT APPROVAL

___ PRELIMINARY PLAT APPROVAL

___ SITE DEVELOPMENT PLAN APPROVAL

___ FINAL PLAT APPROVAL

___ BUILDING PERMIT APPROVAL

___ FOUNDATION PERMIT APPROVAL

X CERTIFICATE OF OCCUPANCY APPROVAL (Temp)

___ ROUGH GRADING PERMIT APPROVAL

___ GRADING/PAVING PERMIT APPROVAL

___ OTHER ___ (SPECIFY)

* Revised per City Letter dated 26 Aug 86

DATE SUBMITTED: 2 Sept 86

BY: R. F. Sykes

FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

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

August 26, 1986

Robert Sykes, P.E.
Wilson & Company
Post Office Box 3548
Albuquerque, New Mexico 87190

RE: PHASING PLAN AND TEMPORARY SILTING POND FOR SEAGULL OFFICE PLAZA (F-18/D14B) RECEIVED AUGUST 15, 1986

Dear Mr. Sykes:

Based on the information provided or your resubmittal of August 15, 1986, listed you will find certain items that will need to be included before temporary Certificates of Occupancy may be issued:

1. Definite Phase line identifying Phase I and Phase II.

2. How big of a silting pond will be required to control the developed runoff from Phase I? (We need total control to eliminate the possibility of the dike breaking and causing damage to the existing channel. Is the 4" pvc pipe big enough?)

3. Upon completion of Phase II, total certification will be required by the engineer.

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

Cordially,

Bernie J. Montoya

Bernie J. Montoya, C.E.
Engineering Assistant

BJM/bsj

WILSON & COMPANY
ENGINEERS & ARCHITECTS
505 345-5345
ENGINEERS
ARCHITECTS
PLANNERS
Office Location... 6611 GULTON CT., N.E. ■ ALBUQUERQUE, NEW MEXICO 87109
An Equal Opportunity Employer
Mailing Address... P.O. BOX 3548 ■ ALBUQUERQUE, NEW MEXICO 87190

14 August 1986

RECEIVED
AUG 15 1986
HYDROLOGY SECTION

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

Re: Seagull Office Plaza F18/D14B
Temporary Certificate of Occupancy
WCEA File: 85-533A

Dear Mr. Aguirre:

Bailey Blomfield Company has requested a Temporary Certificate of Occupancy for the south building on their property. The attached print shows the improvements which have been completed as of 14 August 1986. The improvements constructed to date are in substantial compliance with the approved grading plan.

Your inspector has requested the developer to control the silt which might erode into the concrete channel. I have added a detail to the grading plan which calls for a dike with a 4-inch diameter outlet pipe. If properly maintained, this should provide the required erosion control.

Bailey Blomfield hopes to have construction completed by December 1986.

I will be glad to answer any questions you may have about this project.

WILSON & COMPANY

Robert F. Sykes, P.E.

enc.
cc: Bill Bailey

kl

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Seagull Office Plaza ZONE ATLAS/DRNG. FILE #: F-18 / D148

LEGAL DESCRIPTION: Tract A-1, Summary Plat Tract A-1 & CA-1 Limited Partnership Tract

CITY ADDRESS: 5801 Osuna NE

ENGINEERING FIRM: Wilson & Co CONTACT: Bob Sykes

ADDRESS: PO Box 3548 PHONE: 345-5545

OWNER: Bailey Blomfield Co. CONTACT: Wm. J. Bailey

ADDRESS: 5801 Osuna NE, Alb NM 87109 PHONE: 881-0607

ARCHITECT: CONTACT:

ADDRESS: PHONE:

SURVEYOR: CONTACT:

ADDRESS: PHONE:

CONTRACTOR: CONTACT:

ADDRESS: PHONE:

RECEIVED AUG 15 1986 HYDROLOGY SECTION

PRE-DESIGN MEETING:

X YES

___ NO

X COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO. ___

EPC NO. ___

PROJ. NO. ___

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT

___ DRAINAGE PLAN

___ CONCEPTUAL GRADING & DRAINAGE PLAN

___ GRADING PLAN

X EROSION CONTROL PLAN

___ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

___ SKETCH PLAT APPROVAL

___ PRELIMINARY PLAT APPROVAL

___ SITE DEVELOPMENT PLAN APPROVAL

___ FINAL PLAT APPROVAL

___ BUILDING PERMIT APPROVAL

___ FOUNDATION PERMIT APPROVAL

X CERTIFICATE OF OCCUPANCY APPROVAL (Temporary)

___ ROUGH GRADING PERMIT APPROVAL

___ GRADING/PAVING PERMIT APPROVAL

(1) X OTHER For South Building Only (SPECIFY)

DATE SUBMITTED: 14 Aug 1986

BY: Robert F. Sykes

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

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

February 20, 1986

Robert Sykes, P.E.
Wilson & Company
Post Office Box 3548
Albuquerque, New Mexico 87190

RE: DRAINAGE PLAN FOR SEAGULL OFFICE PLAZA
RECEIVED FEBRUARY 18, 1986 (F-18/D14B)

Dear Mr. Sykes:

The referenced plan, dated February 17, 1986, is approved for Building Permit sign-off.

Please attach a copy of this approved drainage plan along with the appropriately approved "Drainage Facilities Within City Right-of-Way" document to the construction set before Hydrology sign-off.

If you have any questions regarding this project, call me at 766-7644.

Cordially,

Carlos A. Montoya

Carlos A. Montoya, P.E.
City/County Floodplain Administrator

BJM:CAM/bsj

WILSON & COMPANY
ENGINEERS
ARCHITECTS

505 345-5345

ENGINEERS
ARCHITECTS
PLANNERS

Office Location... 6611 GULTON CT., N.E. ■ ALBUQUERQUE, NEW MEXICO 87109 ■ An Equal Opportunity Employer

Mailing Address... P.O. BOX 3548 ■ ALBUQUERQUE, NEW MEXICO 87190

18 February 1986

RECEIVED
FEB 18 1986
HYDROLOGY SECTION

Mr. Bernie J. Montoya
Design Hydrology Section
Municipal Development Department
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

Re: Seagull Office Plaza
Resubmittal Drainage Report & Grading Plan
(F18/D14B)
WCEA File: 85-533A

Dear Mr. Montoya:

Enclosed is the revised drainage report and grading plan for the proposed Seagull Office Plaza. There have been some revisions made as to the building shape and location due to the misinformation about the location of the property line along Osuna Road. Thus, we have revised the grades, but the concept has remained the same as originally submitted. We have also added the information requested in your letter dated 13 January 1986.

If you have any questions concerning this project, please call.

WILSON & COMPANY

Robert F. Sykes, P.E.
Partner

enc.

cc/enc: Mr. Bill Bailey

kl

Resubmittal (F18-D14B)

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Seagull Office Plaza ZONE ATLAS/DRNG. FILE #: F-18

LEGAL DESCRIPTION: Tract A-1 Summary Plat Tract A-1 & CA-1 Limited Partnership

CITY ADDRESS: Tract

ENGINEERING FIRM: Wilson & Co CONTACT: Bob Sykes

ADDRESS: PO Box 3548, Abq. 87190 PHONE: 345-5345

OWNER: Bailey Development Co. CONTACT: Wm. J. Bailey

ADDRESS: 4002 Oakmont Dr. Rio Rancho NM 87124 PHONE: 892-8396

ARCHITECT: CONTACT:

ADDRESS: PHONE:

SURVEYOR: CONTACT:

ADDRESS: PHONE:

CONTRACTOR: CONTACT:

ADDRESS: PHONE:

RECEIVED FEB 18 1986 HYDROLOGY SECTION

PRE-DESIGN MEETING:

X YES

___ NO

X COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO. ___

EPC NO. ___

PROJ. NO. ___

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT

X DRAINAGE PLAN

___ CONCEPTUAL GRADING & DRAINAGE PLAN

X GRADING PLAN

___ EROSION CONTROL PLAN

___ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

___ SKETCH PLAT APPROVAL

___ PRELIMINARY PLAT APPROVAL

___ SITE DEVELOPMENT PLAN APPROVAL

___ FINAL PLAT APPROVAL

X BUILDING PERMIT APPROVAL

___ FOUNDATION PERMIT APPROVAL

___ CERTIFICATE OF OCCUPANCY APPROVAL

___ ROUGH GRADING PERMIT APPROVAL

___ GRADING/PAVING PERMIT APPROVAL

___ OTHER ___ (SPECIFY)

DATE SUBMITTED: 18 Feb 1986

BY: Robert F Sykes

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

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

January 13, 1986

Robert Sykes, P.E.
Wilson & Company
Post Office Box 3548
Albuquerque, New Mexico 87190

RE: DRAINAGE PLAN FOR SEAGULL OFFICE PLAZA
RECEIVED JANUARY 9, 1986 (F-18/D14B)

Dear Mr. Sykes:

A preliminary review of your submittal for Building Permit approval has shown that the following information is lacking for this section to begin with the review process:

INFORMATION NEEDED

1. Flow rate and volume calculations showing the on-site undeveloped conditions.

2. Drainage Facilities Within City Right-of-Way document must be reviewed and approved before Building Permit can be signed-off.

PLAN DRAWING

1. Finished floor elevation with complete Mean Sea Level designation

2. Location and/or direction of flow for roof drains.

3. Please remove the concrete sidewalk shown on the east side of Seagull Lane.

Please provide this information so that we may process your request as expediently as possible.

Cordially,

Bernie J. Montoya

Bernie J. Montoya, C.E.
Engineering Assistant/Design Hydrology

BJM/osj

WILSON & COMPANY
ENGINEERS & ARCHITECTS

ENGINEERS
ARCHITECTS
PLANNERS

Office Location... 6611 GULTON CT., N.E. ■ ALBUQUERQUE, NEW MEXICO 87109 ■ An Equal Opportunity Employer

Mailing Address... P.O. BOX 3548 ■ ALBUQUERQUE, NEW MEXICO 87190

8 January 1986

Mr. Fred Aquirre
Design Hydrology Section
Municipal Development Department
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

Re: Seagull Office Plaza
Drainage Report and Grading Plan
WCEA File: 85-533A

Dear Mr. Aquirre:

Enclosed for your review and approval is a copy of the grading plan and drainage report. This project is located at the northeast corner of Osuna Road and Seagull Lane. This is a block east of Osuna Road and San Mateo Boulevard.

I will be glad to answer any questions you may have about this project.

WILSON & COMPANY

Robert E. Sykes, P.E.
Partner-in-Charge

RECEIVED
JAN 09 1986
HYDROLOGY SECTION

enc.

cc: William J. Bailey - Bailey Development Co.
David Tyson - Tyson & Associates, Architects

kl

COMP. RFS
CK.
DATE 7 Sept 86

WILSON & COMPANY
ENGINEERS
ARCHITECTS

LOC. Albuquerque FILE 85-533A
PROJ. Seagull Office Park SHEET 1
SUBJ. Temp Occupancy OF 1

FLOW DURING PHASE II CONSTRUCTION
BASED ON DATA FROM APPROVED DRAINAGE REPORT

Hyd. soil group B
% Impervi = 88%
C = 0.84
t_c < 10 min
Q_{100} = 2.2 x 2.2 = 4.84

RECEIVED
SEP 02 1986
HYDROLOGY SECTION

TOTAL AREA: 2.84 Ac PHASE II Area unpaved = .73 Ac C = 0.6
PHASE II C = $\left(\frac{2.11 Ac}{2.84 Ac} \times .84\right) + \left(\frac{.73}{2.84} \times .60\right)$
C = 0.77

Q_{100} = CiA = 0.77 x 4.84 x 2.84 = 10.58 cfs

Volume Silt Basin:
Area @ Elev 19.5 = 1524 ft²
Area @ Elev 18.5 = 657 ft²

$Vol = \frac{1}{3}(A_1 + A_2 + \sqrt{A_1 A_2})h$

$= \frac{1}{3}(1524 + 657 + \sqrt{657 \times 1524})1$

Vol = 1060 cu. ft.

IMPORTANT MESSAGE

FOR Bernie

DATE 8/11 TIME 10:41 A.M. P.M.

WHILE YOU WERE AWAY

M Mark

OF Bailey Blomfield Co

PHONE NO. 881-0607

TELEPHONED	X	RET'D YOUR CALL	
PLEASE CALL	X	URGENT	
WILL CALL AGAIN		WANTS TO SEE YOU	

MESSAGE Seagull Office Plaza

5801 Osuna NE

878-0145

SIGNED

ENGINEER'S
DRAINAGE REPORT
AND
GRADING PLAN

SEAGULL OFFICE PLAZA
TRACT A-1
SUMMARY PLAT (SP-84-216)
OF
TRACT A-1 and CA-1
LIMITED PARTNERSHIP TRACT

ZONE MAP F-18

WILSON & COMPANY, ENGINEERS & ARCHITECTS
6611 GULTON COURT N.E.
ALBUQUERQUE, NEW MEXICO 87109

ROBERT F. SIKES
NEW MEXICO
4391
REGISTERED PROFESSIONAL ENGINEER

RECEIVED
FEB 18 1986
HYDROLOGY SECTION

WILSON & COMPANY
ENGINEERS ARCHITECTS

JANUARY 1986
(85-533A)
REVISED FEBRUARY 1986

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION/DESIGN HYDROLOGY SECTION

CONFERENCE RECAP

DRAINAGE FILE/ZONE ATLAS PAGE NO.: F-18 DATE: 1/3/86 @ 8:00

PLANNING DIVISION NOS: EPC: _____ DRB: _____

SUBJECT: Office Building

STREET ADDRESS (IF KNOWN): Osuna & Seagull

SUBDIVISION NAME: Tract A-1 Limited Partnership Tract.

APPROVAL REQUESTED:

____	PRELIMINARY PLAT	____	FINAL PLAT
____	SITE DEVELOPMENT PLAN	X	BUILDING PERMIT
____	OTHER	____	ROUGH GRADING

	WHO	REPRESENTING
ATTENDANCE:	Bob Sykes	Wilson & Co.
	Billy Goolsby	Design Hydro.

FINDINGS:

① Discharge to be determined by analysis of downstream capacity.

② An appropriate "Drainage Facilities Within City Right-of-Way/Easement" document will be required for the sundown into the channel.

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

SIGNED: Billy J. Goolsby SIGNED: [illegible]

TITLE: CE/Design Hydrology TITLE: WILSON & CO.

DATE: 1/3/86 DATE: 3-Jan 86

NOTE PLEASE PROVIDE A COPY OF THIS RECAP WITH THE DRAINAGE SUBMITTAL

ENGINEER'S DRAINAGE REPORT
AND
GRADING PLAN

SEAGULL OFFICE PLAZA

ZONE MAP F-18

PURPOSE AND SCOPE: The Owner is planning to develop the site as an office complex which will consist of two two-story buildings with a gross area of 57,600 square feet.

SITE LOCATION: The site is Tract A-1, Summary Plat of Tract A-1 and CA-1, Limited Partnership Tract located at the northeast corner of Osuna Road and Seagull Lane. The site is bounded on the south by Osuna Road, on the west by Seagull Lane, on the north by a concrete paved channel (Bear Arroyo) and on the east by an office complex.

The project site is not located in a designated flood hazard zone.

From SCS Bernalillo County Soil Map, the project soil is classified Tijeras Gravely Fine Loam with a one to five percent slope (TgB), Hydrologic Soil Group B.

At the present time, the site is being used as a commercial storage area with small buildings for lease and then part of the area is used for storage of boats and recreational vehicles and campers.

DESIGN CRITERIA: The Rationale Method is used to compute the design flows using criteria in Volume 2, City of Albuquerque Development Process Manual. The runoff coefficient is based on land use shown on site development plan and Plate 22.2 C-1, Volume 2, DPM.

OFFSITE DRAINAGE: The office complex to the east drains to Osuna Road and to the Bear Arroyo. The southerly 100 feet of the westerly 30 feet of the office complex drains onto the site. The proposed development will accept this offsite flow.

ONSITE DRAINAGE: The attached grading plan depicts the proposed drainage pattern. The entire site will discharge to the paved channel at the northwest corner of the northerly parking strip. The calculated probable 100-year peak discharge rate is 11.55 cfs.

According to the Bovay Engineer's report for the Flood Detention Dam at Arroyo Del Oso Golf Course, the peak 100-year discharge to the Bear Arroyo is 1,850 cfs with a time of concentration of 120 minutes. The capacity of the channel with a depth of flow of 4.75 feet (freeboard of 2 feet) is 2,500 cfs. The development of this site as an office complex will not have a significant impact on the peak flow in the channel.

At the present time, the site is developed with small storage shed units and the 100-year peak runoff rate is about the same as the proposed development or 11.55 cfs. The present flow is discharged to the concrete drainage channel or to Seagull Lane and then to the concrete drainage channel. The proposed development will eliminate most of the site flow to Seagull Lane.

RECOMMENDATION: We recommend the attached grading plan be approved and free discharge to the paved channel be allowed, since there would not be a significant impact on peak flow in the channel.

COMP. RFS
CK.
DATE 8 Jan 1986

WILSON & COMPANY
ENGINEERS ARCHITECTS

LOC. Albuquerque FILE 85-533A
PROJ. Seagull Office Bldg SHEET 1
SUBJ. Drainage Rept OF

Area = 2.84 Acres Total Including 50' Drainage Easement

Soil Classification = Hydrologic Group B.

6 Hr. 100 yr Rainfall = 2.2 inches

% Impervious = 88%

C from City Table = 0.84

Rational Method

$Q_{100} = C\, i_{100} A$

$t_c < 10$ min

$i_{100} = 2.2 \times 2.2 = 4.84$

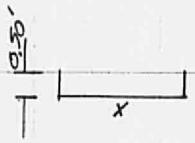
$Q_{100} = 0.84 \times 4.84 \times 2.84 = 11.55$ cfs.

Flume Reqd.

Slope = 1.00%

Q_{cap} = Area × Velocity

$= A \times \frac{1.486}{n} \times R^{2/3} S^{1/2}$



$n = 0.015$

$Q_{cap} = .5x \times \frac{1.486}{.015} \left(\frac{Ax}{1+x}\right)^{2/3} (.01)^{1/2}$

$Q_{cap} = (.5x)(99.07)\left[\frac{Ax}{(1+x)}\right]^{2/3} \times (.10)$

X	Area	$R^{2/3}$	Qcap.
1	0.5	0.40	1.98
2	1.0	0.48	4.76
2.5	1.25	0.50	6.19
3.0	1.50	0.52	7.72
4.0	2.0	0.54	10.75
4.5	2.25	0.63	14.04

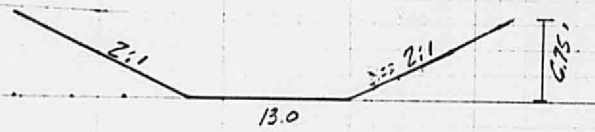
← Use

COMP. RFS
CK.
DATE 8 Jan 86

WILSON & COMPANY
ENGINEERS & ARCHITECTS

LOC. Albuquerque FILE 85-533A
PROJ. Sagull Office SHEET 2
SUBJ. Drainage Report OF

CAPACITY EXISTING CONCRETE CHANNEL



slope = 1.22%

Compute Capacity $Q = \text{Area} \times \text{Vel} = A \times \frac{1.486}{.013} \times R^{2/3} \times S^{1/2}$
$= A \times 10.94 \times R^{2/3}$

Depth	Area	$R^{2/3}$	Q capacity
2	34	1.34	499
4	84	1.95	1792
4.75	106.87	2.14	2500
5.75	140.87	2.37	3651
6.75	178.87	2.58	5054