



# *City of Albuquerque*

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

November 1, 1994

John M. MacKenzie, P.E.  
D. Mark Goodwin & Assoc, PA  
P.O.Box 90606  
Albuquerque, N.M. 87199

RE: ENGINEER'S CERTIFICATION FOR FIRE STATION 19 (G-16/D107)  
RECEIVED OCTOBER 17, 1993 FOR CERTIFICATE OF OCCUPANCY APPROVAL  
ENGINEER'S STAMP DATED 10/17/94

Dear Mr. MacKenzie:

Based on the information included in the submittal referenced above, City Hydrology approves a Certificate of Occupancy for this project.

If I can be of further assistance, you may contact me at 768-2727.

Sincerely,

John P. Curtin, P.E.  
Civil Engineer/Hydrology

c: Andrew Garcia

WPHYD/7711/jpc

# DRAINAGE INFORMATION SHEET

PROJECT TITLE: Fire Station #19 ZONE ATLAS/DRNG, FILE #: G-16-Z / 4107  
DRB #: \_\_\_\_\_ EPC #: \_\_\_\_\_ WORK ORDER #: \_\_\_\_\_  
LEGAL DESCRIPTION: Tract B1, Montgomery Heights Addition  
CITY ADDRESS: \_\_\_\_\_

ENGINEERING FIRM: Mark Goodwin & Associates, PA CONTACT: John M. MacKenzie, PE  
ADDRESS: P.O. Box 90606 PHONE: 828-2200  
OWNER: City of Albuquerque CONTACT: \_\_\_\_\_  
ADDRESS: P.O. Box 1293 PHONE: \_\_\_\_\_  
ARCHITECT: SLNB Architects CONTACT: Don Schlegel  
ADDRESS: 1620 Central SE PHONE: 247-1529  
SURVEYOR: City of Albuquerque CONTACT: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_  
CONTRACTOR: N/A 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  
☒ CERTIFICATION OF OCCUPANCY APPROVAL  
\_\_\_\_ GRADING PERMIT APPROVAL  
\_\_\_\_ PAVING PERMIT APPROVAL  
\_\_\_\_ S.A.D. DRAINAGE REPORT  
\_\_\_\_ DRAINAGE REQUIREMENTS  
\_\_\_\_ OTHER \_\_\_\_\_ (Specify)

DATE SUBMITTED: 10/17/94

BY: John M. MacKenzie  
John M. MacKenzie, PE

OCT 17 1994



# City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN REVIEW COMMITTEE MEETING

10-07-93

2:30 P.M.

PROJECT: Fire Station No. 19

Project No. 4329.90

CONSULTANT: SLNB Architects

PRESENT: *[Signature]* Billy Goolsby, DRC Chairman  
Demetrio Griego, Albuquerque Fire Department  
✓ Greg Chavez, Albuquerque Fire Department  
✓ Don P. Schlegel, Architect  
✓ Joe DellaLunga, City Architect  
✓ John P. Curtin, Hydrology  
✓ Richard Dourte, Transportation Development  
Mike Minturn, Parks & General Services  
✓ Joe D. Luehring, City Utility Coordinator  
✓ Phil Fischer, Construction Management

## COMMENTS:

1. Richard Dourtes comments were that the existing drivepad needs to be shown to be replaced. Quarter points and adequate spot elevations need to be provided on sheet SP for construction purposes. The Architect noted these comments.
2. The Consultant will need to make sure that Hydrology has a copy of the most recent grading and drainage plan.
3. The Consultant is coordinating with Joe Luehring regarding the franchise utilities.
4. Joe DellaLunga provided written comments previously. He also provided verbal comments about the Bid Documents. The plans will need to be officially submitted to plan check for review.
5. Mike Minturn provided verbal comments. He asked if a "Life Cycle" analysis had been performed for this project. Since the contract was started before May 7, 1993 that this requirement is not applicable. He also asked about the heating system. The Consultant responded to these questions and noted the concerns.

CCT 19

October 7, 1993  
Page 2

6. Joe Luehring provided written comments. A five (5) foot encroachment easement across the alley will be required for the electrical service for the property to the south.
7. Phil Fischer provided verbal comments which the Consultant noted.
8. The Chairman provided mark-ups and discussion of his review.

The Architect will submit the plans to plan check for review. Once satisfied, the Architect will submit one set of plans and the cover sheet to the Master Scheduler to route for approval. This set should be routed to the City Architect for sign-off.

BG:vgl(WP+125596)



# *City of Albuquerque*

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

December 10, 1993

John M. MacKenzie, P.E.  
D. Mark Goodwin & Assoc, PA  
P.O.Box 90606  
Albuquerque, N.M. 87199

RE: REVISED GRADING & DRAINAGE PLAN FOR FIRE STATION 19 (G-16/D107),  
RECEIVED NOVEMBER 24, 1993 FOR BUILDING PERMIT APPROVAL  
ENGINEER'S STAMP DATED 10/8/93

Dear Mr. MacKenzie:


Based on the information included in the submittal referenced above, City Hydrology APPROVES this project for Building Permit.

Include a copy of the Grading & Drainage Plan in the set of construction documents submitted for Building permit.

Engineer's Certification of grades per DPM checklist must be approved before any Certificate of Occupancy will be released for this project.

If I can be of further assistance, you may contact me at 768-2727.

Sincerely,

  
John P. Curtin, P.E.  
Civil Engineer/Hydrology

xc: Alan Martinez

WPHYD/7711/jpc

PUBLIC WORKS DEPARTMENT



# RAINAGE INFORMATION SHEET

G16-D107

PROJECT TITLE: Fire Station #19 ZONE ATLAS/DRNG, FILE #: G-16-Z  
 DRB #: \_\_\_\_\_ EPC #: \_\_\_\_\_ WORK ORDER #: \_\_\_\_\_  
 LEGAL DESCRIPTION: Tract B1, Montgomery Heights Addition  
 CITY ADDRESS: \_\_\_\_\_

ENGINEERING FIRM: Mark Goodwin & Associates, PA CONTACT: John M. MacKenzie, PE  
 ADDRESS: P.O. Box 90606 PHONE: 828-2200  
 OWNER: City of Albuquerque CONTACT: \_\_\_\_\_  
 ADDRESS: P.O. Box 1293 PHONE: \_\_\_\_\_  
 ARCHITECT: SLNB Architects CONTACT: Don Schlegel  
 ADDRESS: 1620 Central SE PHONE: 247-1529  
 SURVEYOR: City of Albuquerque CONTACT: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_  
 CONTRACTOR: N/A CONTACT: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

## TYPE OF SUBMITTAL:

## CHECK TYPE OF APPROVAL SOUGHT:

\_\_\_\_ DRAINAGE REPORT  
☒ DRAINAGE PLAN  
 \_\_\_\_ CONCEPTUAL GRADING & DRAINAGE PLAN  
☒ GRADING PLAN  
 \_\_\_\_ EROSION CONTROL PLAN  
 \_\_\_\_ ENGINEER'S CERTIFICATION  
 \_\_\_\_ OTHER

\_\_\_\_ 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  
 \_\_\_\_ CERTIFICATION OF OCCUPANCY APPROVAL  
 \_\_\_\_ GRADING PERMIT APPROVAL  
 \_\_\_\_ PAVING PERMIT APPROVAL  
 \_\_\_\_ S.A.D. DRAINAGE REPORT  
 \_\_\_\_ DRAINAGE REQUIREMENTS  
☒ OTHER DRC Approval (Specify)

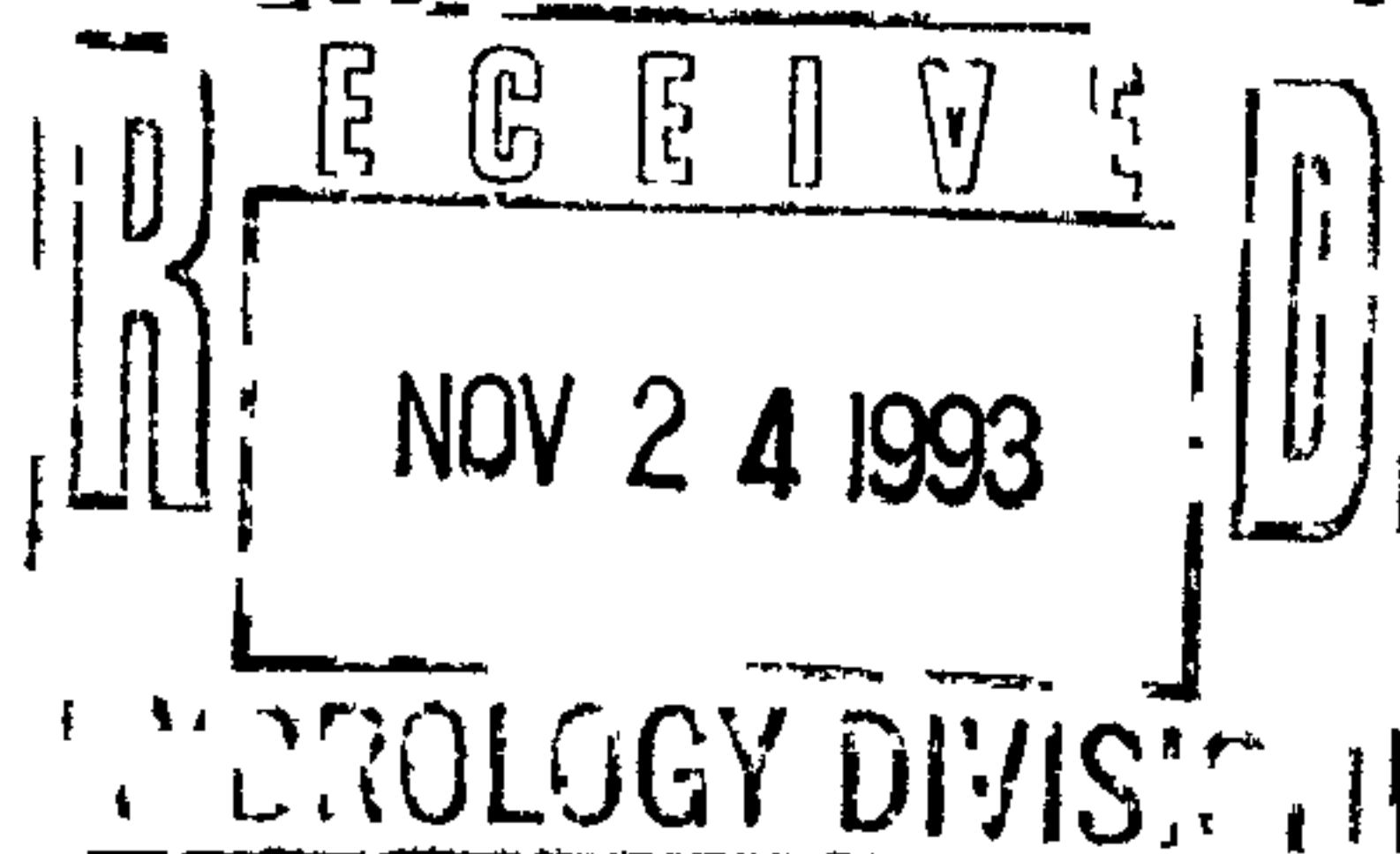
## PRE-DESIGN MEETING:

\_\_\_\_ YES  
☒ NO  
 \_\_\_\_ COPY PROVIDED

NOTE: It is understood that Building Permit has been obtained, but DRC Approval is now requested.

DATE SUBMITTED: 11/24/93

BY: John M. MacKenzie  
 John M. MacKenzie, PE



CITY OF ALBUQUERQUE  
NOTICE OF D.R.C. MEETING

9-21-93  
(DATE)

PROJECT NO: 4329.90  
ZONE ATLAS: 6-16

PROJECT NAME: FIRE STATION NO. 19  
(CARRISLE + SAN ANTONIO DR.)

TYPE OF PROJECT: AHBA ☐ CIP ☒ PWC ☐ SAD ☐ ALL PRIVATE ☐

Contact Person: DON SCHLEGER Phone: 247-1529  
Firm: SLNB ARCH.

Scheduled with the D.R.C. on 10-7-93 at 2:30 in Conf. Room 302  
on the 3rd Floor of the old City Hall Building.

The Project Is Scheduled For:

/ / Design Report Review ☒ Final Plan Review (Approved Infra. List)  
/ / Pre-Design Meeting / / Signoff of Plans (Mylar Required)  
/ / Preliminary Plan Review / /

The Project Relates To:

/ / Water / / San. Sewer / / Paving / / Storm Drainage ☒ ARCH. DRAWINGS

The Attached Package Includes:

/D/ Drawings /S/ Spec's /E/ Estimate /R/ Report /M/ Memo Only

Indicated below are the Departments/Divisions that have received project documents and are invited to attend. It will be the Project Managers responsibility to notify consulting engineering firms of date and time of scheduled meetings on all CIP projects.

On Private Plans: First 8 Receive Prel. Plans--First 5 Receive Final Plans

<del>ID/</del> Billy Goolsby	Project Review Section	All
<del>ID/</del> Richard Dourte	Transportation Development	All
<del>IM/</del> Stuart Reeder	Utility Design	All
<del>CM/</del> Hydro Repres.	Hydrology	All
<del>ID/</del> Const. Repres.	Construction	All FINAL
<del>IM/</del> Bill Coleman	Traffic Operations	All
/ / Rick Roybal	Construction Coordinator	ALL FINAL
/ / Dick Salas	Street Maintenance	All
/ / Sergio Miranda	Water -Shutoff Plan: Yes/No	All WATER
<del>IM/</del> Diane Scena	Parks & Recreation	ALL LANDSCAPING
/ / Sheryl Germack	Transit Department	CIP/Memos
/ / Joe Luehring	Utility Coordinator	PWC & CIP
/ / Jim Fink	Line Maintenance	CIP/SAS
<del>SID/</del> Joe Dellalonga	City Architect	ARCHITECTURAL
/ / Lee Lunsford	SAD Engineer	SAD
/ / Brett Locke	Transportation Develop.	CIP/TRANS.
/ / Roger Green	Utility Design	CIP/WATER & SAS
<del>SID/</del> Mike Minturn	General Services Dept.	BUILDINGS
<del>SID/</del> Anita Boulton	PWD/Legal Assistant	SPECIFICATIONS
<del>IM/</del> Richard Sertich	Planning Department	CIP/Memos
<del>IM/</del> CIP Manager	CIP	CIP/Memos
<del>IM/</del> FIRE DEPARTMENT		

**CITY OF ALBUQUERQUE  
NOTICE OF D.R.C. MEETING**

5-5-93  
(DATE)

PROJECT NO: 4329.90  
ZONE ATLAS: G-16

PROJECT NAME: FIRE STATION NO. 19  
(CARLISLE & SAN ANDRES DR.)

TYPE OF PROJECT: AHBA ☐ CIP ☒ PWC ☐ SAD ☐ ALL PRIVATE ☐

Contact Person: DON SCHLEGEL Phone: 247-1529  
Firm: SLNB ARCH. INC.

\* NO DRC MTG. SCHEDULED; PLEASE RETURN ANY COMMENTS BY: 5-13-93  
Scheduled with the D.R.C. on \_\_\_\_\_ at \_\_\_\_\_ in Conf. Room \_\_\_\_\_  
\* on the 3rd Floor of the old City Hall Building.

The Project Is Scheduled For:

/ / Design Report Review / / Final Plan Review (Approved Infra. List)  
/ / Pre-Design Meeting / / Signoff of Plans (Nylars Required)  
☒ Preliminary Plan Review / / \_\_\_\_\_

The Project Relates To:

/ / Water / / San. Sewer / / Paving / / Storm Drainage ☒ ARCH. DRAWINGS

The Attached Package Includes:

/D/ Drawings /S/ Spec's /E/ Estimate /R/ Report /M/ Memo Only  
\* LANDSCAPING SHEET L-1

Indicated below are the Departments/Divisions that have received project documents and are invited to attend. It will be the Project Managers responsibility to notify consulting engineering firms of date and time of scheduled meetings on all CIP projects.

On Private Plans: First 8 Receive Prel. Plans--First 5 Receive Final Plans

E/SID/ Billy Goolsby  
ID/ Richard Dourte  
ID/ Stuart Reeder  
ID/ Hydro Repres. — CURTIN  
E/SID/ Const. Repres.  
D/ Bill Coleman  
/ / Rick Roybal  
/ / Dick Salas  
/ / Sergio Miranda  
/ / Diane Scena  
/ / Sheryl Germack  
IMV Joe Luehring  
/ / Jim Fink  
E/SID/ Joe Dellalonga  
/ / Lee Lunsford  
/ / Brett Locke  
/ / Roger Green  
SID/ Mike Minturn  
IS/ Anita Boulton  
IMV Richard Sertich  
IMV CIP Manager  
/ / \_\_\_\_\_

Project Review Section	All
Transportation Development	All
Utility Design	All
Hydrology	All
Construction	All FINAL
Traffic Operations	All
Construction Coordinator	ALL FINAL
Street Maintenance	All
Water -Shutoff Plan: Yes/No	All WATER
Parks & Recreation	ALL LANDSCAPING
Transit Department	CIP/Memos
Utility Coordinator	PWC & CIP
Line Maintenance	CIP/SAS
City Architect	ARCHITECTURAL
SAD Engineer	SAD
Transportation Develop.	CIP/TRANS.
Utility Design	CIP/WATER & SAS
General Services Dept.	BUILDINGS
PWD/Legal Assistant	SPECIFICATIONS
Planning Department	CIP/Memos
CIP	CIP/Memos

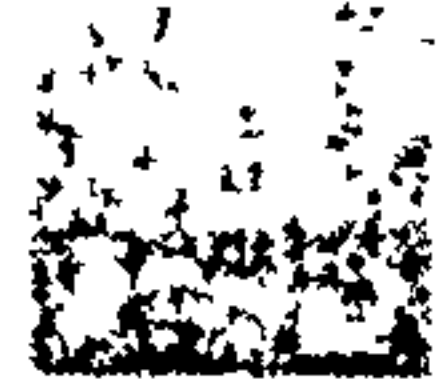


# SLNB ARCHITECTS, INC.

1620 Central Avenue Southeast

Albuquerque, NM 87106

(505) 247-1529



May 4, 1993

Re: Review of COstruction Documents for Fire Station #19  
City Project 4329-01

Dear Terrie,

The construction documents are complete except for final review by the Fire Department and the City. They are also being reviewed by the architects and engineers for coordination and for minor details that should be added for additional clarification. There are several pages that are hand drawn or showing notes and corrections. These are in the process of being drawn by the computer.

As per your request, we are delivering 7 sets or working drawings, and 5 sets of specifications. We were advised of this review process by Joe DellaLonga.

I will be out of town during this review process and will return after Memorial Day. Questions during this period should be directed to Jim Lewis or Jean Nelson. Both are principals in the firm. Jim had transferred all drawings to the computer and Jean wrote the specifications. They can be reached at 247-1529.

While I am away I will be working on the final draft of the Prototype Fire Station Guidelines which will be ready for your review in June.

Sincerely,

Don P. Schlegel, Principal in Charge

DPS:kks



# ***City of Albuquerque***

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

May 10, 1993

John M. MacKenzie, P.E.  
D. Mark Goodwin & Assoc, PA  
P.O.Box 90606  
Albuquerque, N.M. 87199

RE: GRADING & DRAINAGE PLAN FOR FIRE STATION 19 (G-16/D107)  
RECEIVED MAY 10, 1993 FOR BUILDING PERMIT APPROVAL  
ENGINEER'S STAMP DATED 5/7/93

Dear Mr. MacKenzie:

Based on the information included in the submittal referenced above, City Hydrology APPROVES this project for Building Permit.

Include a copy of the Grading & Drainage Plan in the set of construction documents submitted for Building permit.

Engineer's Certification of grades per DPM checklist must be approved before any Certificate of Occupancy will be released for this project.

If I can be of further assistance, you may contact me at 768-2727.

Sincerely,

John P. Curtin, P.E.  
PWD/Hydrology

xc: Alan Martinez

WPHYD+7711;jpc

PUBLIC WORKS DEPARTMENT

## DRAINAGE INFORMATION SHEET

PROJECT TITLE: Fire Station 19 ZONE ATLAS/DRNG, FILE #: G-16-Z

LEGAL DESCRIPTION: Tract B and Lot 3-A, Block 2, Montgomery Heights

CITY ADDRESS: San Andres & Carlisle NE

ENGINEERING FIRM: D. Mark Goodwin & Associates, PA CONTACT: John M. MacKenzie, PE  
ADDRESS: P.O. Box 90606 87199 PHONE: 828-2200

OWNER: City of Albuquerque CONTACT: Greg Chavez  
ADDRESS: P.O. Box 1293 87103 PHONE: 764-6300

ARCHITECT: SLNB, Inc. CONTACT: Don Schlegel  
ADDRESS: 1620 Central, SE 87106 PHONE: 247-1529

SURVEYOR: City of Albuquerque CONTACT: Dan Montano  
ADDRESS: P.O. Box 1293 87103 PHONE: 764-1616

CONTRACTOR: n/a CONTACT: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

### PRE-DESIGN MEETING

☐ YES  
☒ NO  
☐ COPY OF CONFERENCE RECAP  
SHEET PROVIDED

DRB NO. \_\_\_\_\_  
EPC NO. Z-91-24-1  
PROJ NO. \_\_\_\_\_

### TYPE OF SUBMITTAL

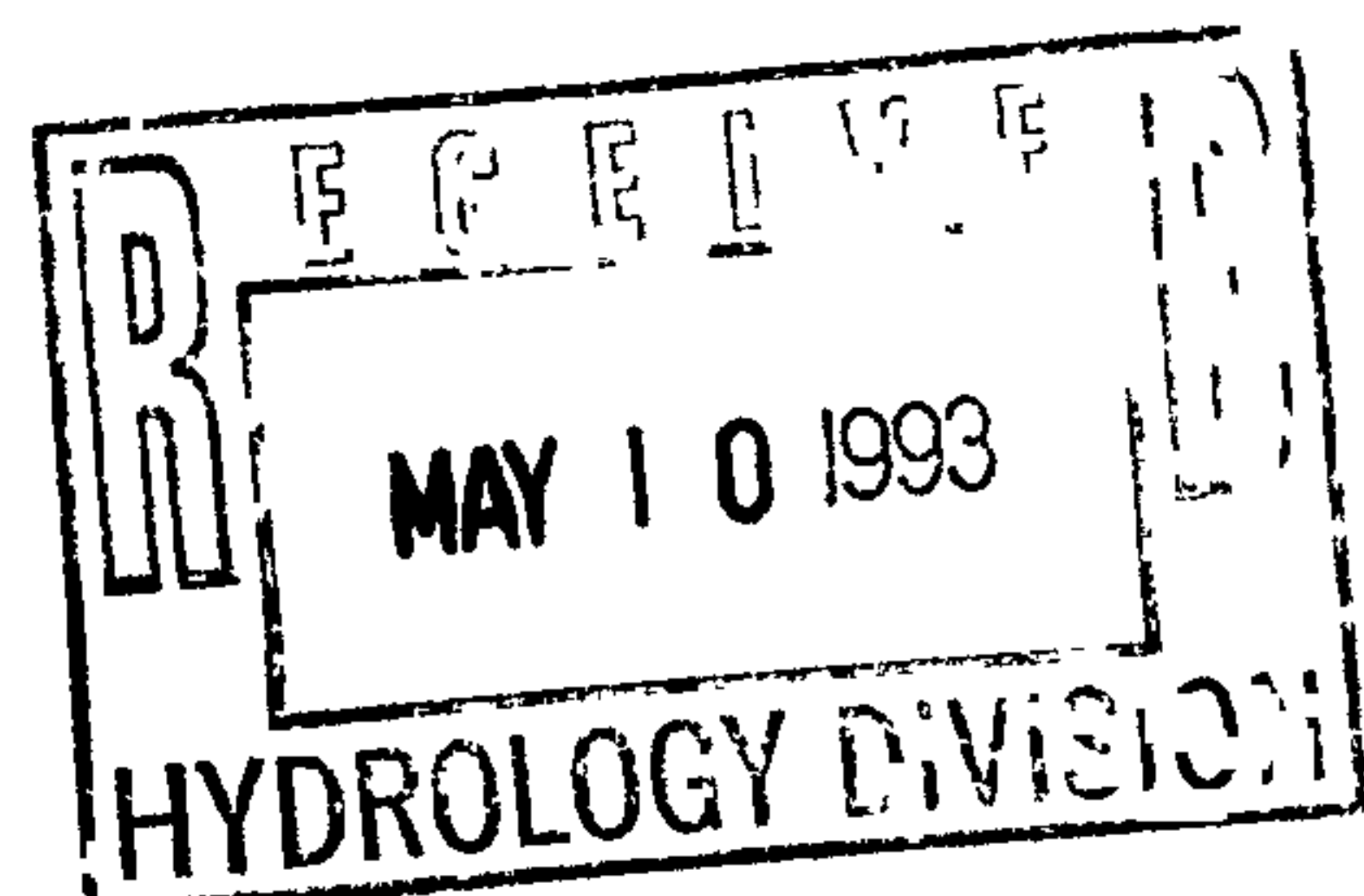
☐ DRAINAGE REPORT  
☒ DRAINAGE PLAN  
☐ CONCEPTUAL GRADING &  
DRAINAGE PLAN  
☒ GRADING PLAN  
☐ EROSION PLAN  
☐ ENGINEER'S CERTIFICATION

### TYPE OF APPROVAL SOUGHT

☐ SKETCH PLAT APPROVAL  
☐ PRELIMINARY PLAT APPROVAL  
☐ SITE DEVELOPMENT PLAN APPROVAL  
☐ FINAL PLAT APPROVAL  
☒ BUILDING PERMIT APPROVAL  
☐ FOUNDATION PERMIT APPROVAL  
☐ CERTIFICATION OF OCCUPANCY APPROVAL  
☐ ROUGH GRADING PERMIT APPROVAL  
☐ GRADING / PAVING PERMIT APPROVAL  
☐ OTHER \_\_\_\_\_

DATE SUBMITTED: May 7 1993

BY: John M. MacKenzie  
John M. MacKenzie, P.E.





D. Mark Goodwin & Associates, P.A.  
Consulting Engineers and Surveyors

P.O. BOX 90606, ALBUQUERQUE, NM 87199  
(505) 828-2200

May 6, 1993

Mr. John P. Curtin, P.E.  
Hydrology Department  
City of Albuquerque  
PO Box 1293  
Albuquerque, New Mexico 87103

RE: GRADING & DRAINAGE PLAN FOR THE NEW FIRE STATION #19 AT CARLISLE BLVD.  
AND SAN ANDRES AVE. NE

Dear Mr. Curtin:

Enclosed you will find a resubmittal of the originally submitted Grading and Drainage plan for the referenced project.

To address your comments regarding the discharge of developed flows into the San Andres Avenue R.O.W., I have revised the AHYMO hydrology run to more accurately reflect exact proportions of landscaping and impervious areas. In the previous submittal, I had improperly assigned the standard 10% and 90% estimates. Now comparing the undeveloped discharge of 2.40 cfs to the developed discharge of 2.93 results in a difference of 0.53 cfs.

From Plate 22.3 in the DPM for a face to face width of 32 feet, the capacity of San Andres Ave. along its flattest exposure to the referenced property was estimated to be 68 cfs at the curb tops. Since it appears San Andres Ave. does not presently function as even a minor channel (based upon pavement grades in Carlisle Blvd. that appear to direct flow north, toward the nearby Hahn Arroyo) during the 100-year storm, it is unlikely the added 0.53 cfs due to this project's development will impact this area's downstream capacity.

We appreciate your efforts to call our office when these submittals need further clarification or when you have comments.

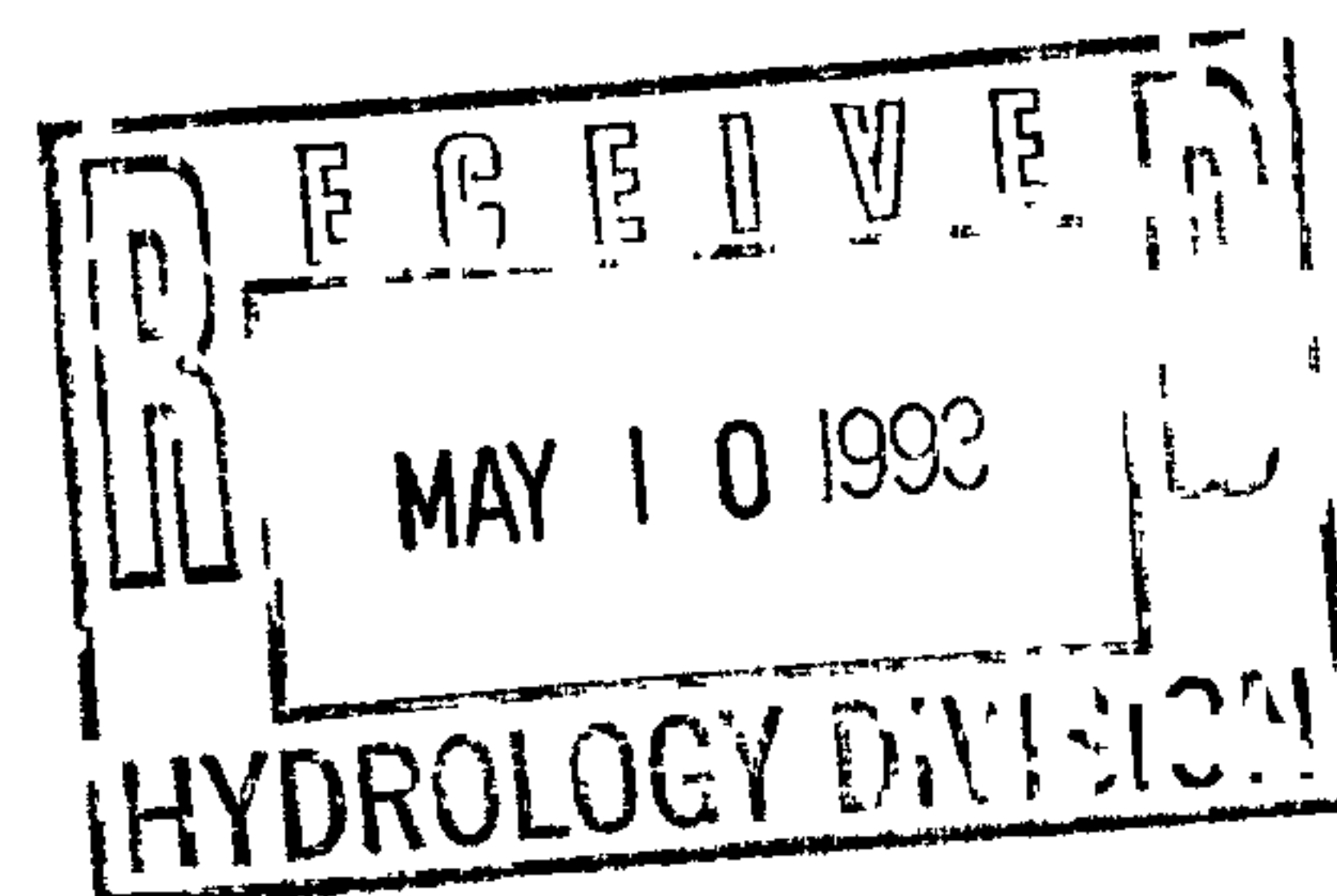
Sincerely,

D. MARK GOODWIN & ASSOCIATES, P.A.

John M. MacKenzie, P.E.

JMM/smr

Enclosure



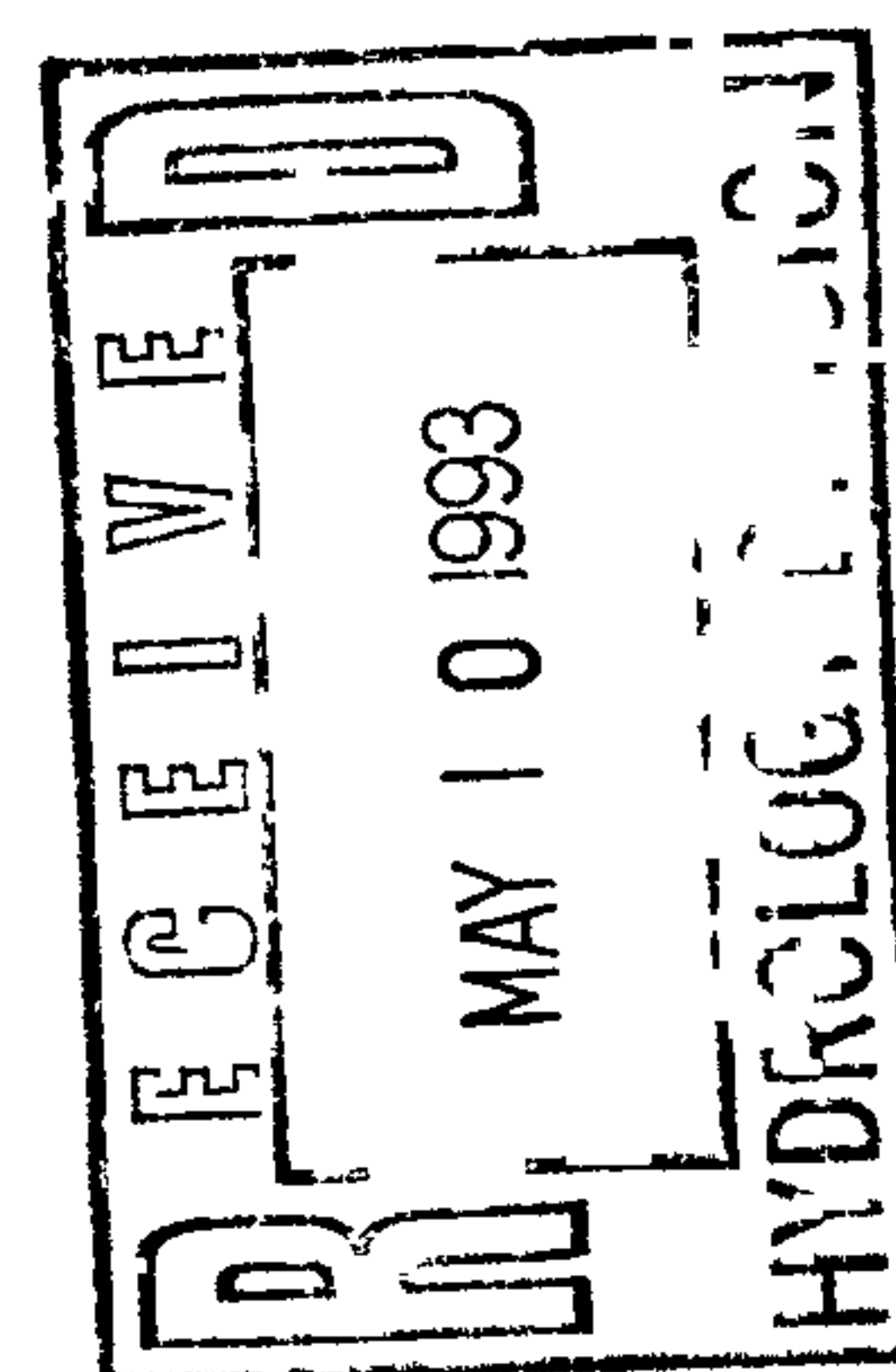


AHYMO PROGRAM (AHYMO392) - AMAFCA VERSION OF HYMO - MARCH, 1992  
RUN DATE (MON/DAY/YR) = 04/13/1993  
START TIME (HR:MIN:SEC) = 07:21:31 USER NO.= Z\_GOODWN.S92  
INPUT FILE = FIRE19.DAT

START TIME=0.0  
\*\*\*\*\* Hydrograph for Fire Station #19 - ~~undeveloped~~  
RAINFALL TYPE=1 RAIN QUARTER=0.0 IN  
RAIN ONE=2.00 IN RAIN SIX=2.32 IN  
RAIN DAY=2.64 IN DT=0.03333 HR

COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 - PEAK AT 1.40 H

DT = .033330 HOURS			END TIME = 5.999400 HOURS			
.0000	.0014	.0029	.0044	.0059	.0075	.0091
.0107	.0124	.0141	.0159	.0177	.0196	.0215
.0235	.0255	.0276	.0298	.0320	.0343	.0367
.0392	.0418	.0444	.0472	.0502	.0532	.0564
.0598	.0634	.0672	.0727	.0786	.0849	.0985
.1288	.1755	.2426	.3342	.4545	.6079	.7990
1.0322	1.2486	1.3390	1.4153	1.4832	1.5449	1.6018
1.6545	1.7039	1.7501	1.7936	1.8346	1.8734	1.9101
1.9449	1.9779	2.0091	2.0388	2.0670	2.0734	2.0793
2.0848	2.0902	2.0952	2.1001	2.1047	2.1092	2.1135
2.1176	2.1216	2.1255	2.1293	2.1329	2.1364	2.1399
2.1432	2.1465	2.1497	2.1528	2.1559	2.1588	2.1617
2.1646	2.1674	2.1701	2.1728	2.1754	2.1780	2.1805
2.1830	2.1854	2.1878	2.1902	2.1925	2.1948	2.1971
2.1993	2.2015	2.2036	2.2057	2.2078	2.2099	2.2119
2.2139	2.2159	2.2178	2.2198	2.2217	2.2236	2.2254
2.2273	2.2291	2.2309	2.2326	2.2344	2.2361	2.2379
2.2396	2.2412	2.2429	2.2445	2.2462	2.2478	2.2494
2.2510	2.2525	2.2541	2.2556	2.2571	2.2587	2.2602
2.2616	2.2631	2.2646	2.2660	2.2674	2.2689	2.2703
2.2717	2.2730	2.2744	2.2758	2.2771	2.2785	2.2798
2.2811	2.2824	2.2837	2.2850	2.2863	2.2876	2.2888
2.2901	2.2913	2.2926	2.2938	2.2950	2.2962	2.2975
2.2986	2.2998	2.3010	2.3022	2.3033	2.3045	2.3057
2.3068	2.3079	2.3091	2.3102	2.3113	2.3124	2.3135
2.3146	2.3157	2.3168	2.3178	2.3189	2.3200	



COMPUTE NM HYD ID=1 HYD NO=101.1 AREA=0.001203 SQ MI  
PER A=0.0 PER B=0.0 PER C=100.0 PER D=0.0  
TP=0.1333 HR MASS RAINFALL=-1

K = .107333HR TP = .133300HR K/TP RATIO = .805200 SHAPE CONSTANT, N =  
1.445615  
UNIT PEAK = 3.4643 CFS UNIT VOLUME = .9968 B = 383.86 P60 = 2.00  
00  
AREA = .001203 SQ MI IA = .35000 INCHES INF = .83000 INCHES PER HOUR  
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=1 CODE=1

PARTIAL HYDROGRAPH 101.10

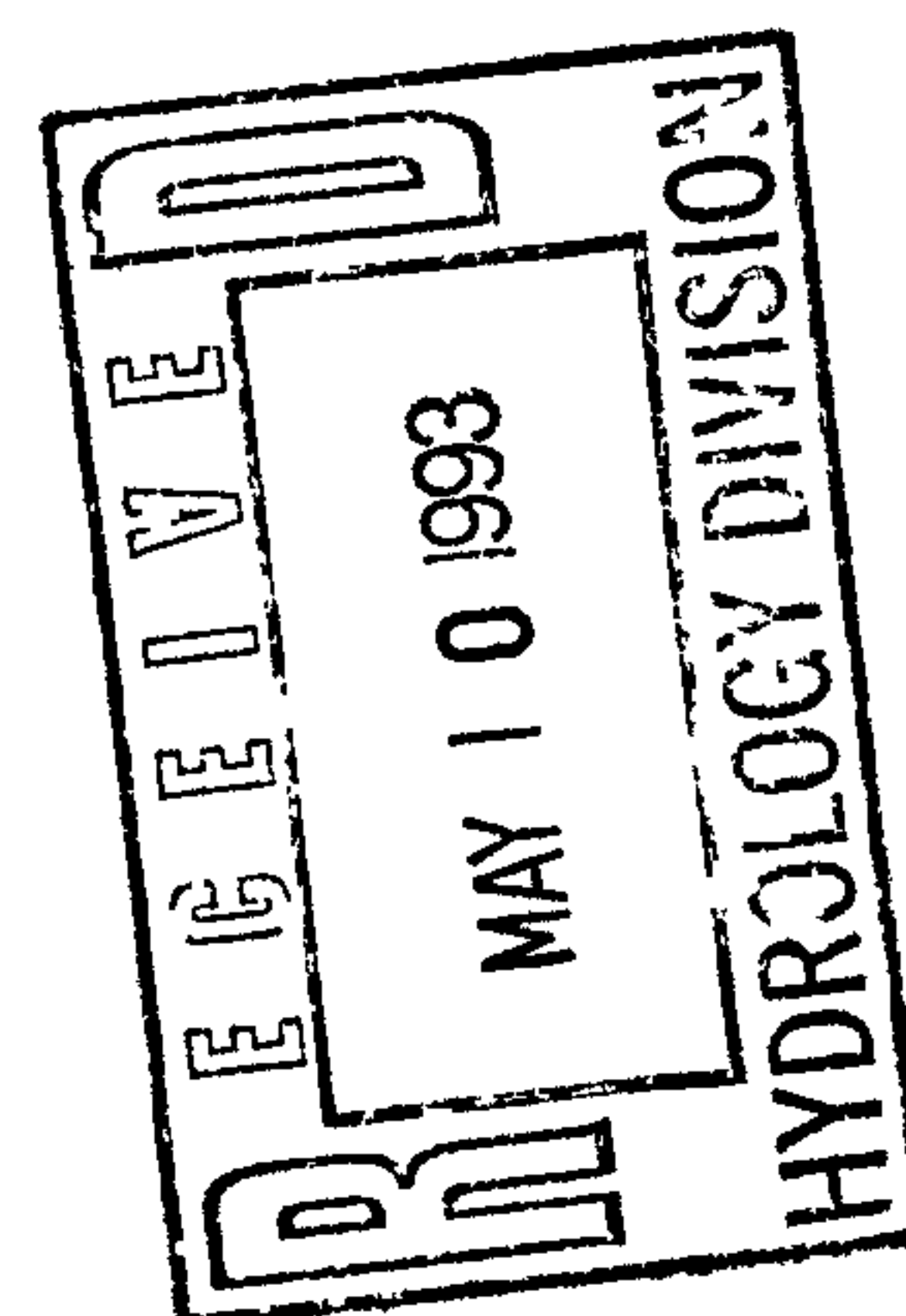
RUNOFF VOLUME = 1.11203 INCHES = ~~0.0713 ACRE-FEET~~  
PEAK DISCHARGE RATE = ~~2.40 CFS~~ AT 1.500 HOURS BASIN AREA = .0012 SQ. MI.

START TIME=0.0  
\*\*\*\*\* Hydrograph for Fire Sta n #19 - ~~Developed~~  
RAINFALL TYPE=1 RA QUARTER=0.0 IN  
RAIN ONE=2.00 IN RAIN SIX=2.32 IN  
RAIN DAY=2.64 IN DT=0.03333 HR

COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 - PEAK AT 1.40 H

R.

DT = .033330 HOURS			END TIME = 5.999400 HOURS			
.0000	.0014	.0029	.0044	.0059	.0075	.0091
.0107	.0124	.0141	.0159	.0177	.0196	.0215
.0235	.0255	.0276	.0298	.0320	.0343	.0367
.0392	.0418	.0444	.0472	.0502	.0532	.0564
.0598	.0634	.0672	.0727	.0786	.0849	.0985
.1288	.1755	.2426	.3342	.4545	.6079	.7990
1.0322	1.2486	1.3390	1.4153	1.4832	1.5449	1.6018
1.6545	1.7039	1.7501	1.7936	1.8346	1.8734	1.9101
1.9449	1.9779	2.0091	2.0388	2.0670	2.0734	2.0793
2.0848	2.0902	2.0952	2.1001	2.1047	2.1092	2.1135
2.1176	2.1216	2.1255	2.1293	2.1329	2.1364	2.1399
2.1432	2.1465	2.1497	2.1528	2.1559	2.1588	2.1617
2.1646	2.1674	2.1701	2.1728	2.1754	2.1780	2.1805
2.1830	2.1854	2.1878	2.1902	2.1925	2.1948	2.1971
2.1993	2.2015	2.2036	2.2057	2.2078	2.2099	2.2119
2.2139	2.2159	2.2178	2.2198	2.2217	2.2236	2.2254
2.2273	2.2291	2.2309	2.2326	2.2344	2.2361	2.2379
2.2396	2.2412	2.2429	2.2445	2.2462	2.2478	2.2494
2.2510	2.2525	2.2541	2.2556	2.2571	2.2587	2.2602
2.2616	2.2631	2.2646	2.2660	2.2674	2.2689	2.2703
2.2717	2.2730	2.2744	2.2758	2.2771	2.2785	2.2798
2.2811	2.2824	2.2837	2.2850	2.2863	2.2876	2.2888
2.2901	2.2913	2.2926	2.2938	2.2950	2.2962	2.2975
2.2986	2.2998	2.3010	2.3022	2.3033	2.3045	2.3057
2.3068	2.3079	2.3091	2.3102	2.3113	2.3124	2.3135
2.3146	2.3157	2.3168	2.3178	2.3189	2.3200	



COMPUTE NM HYD ID=1 HYD NO=101.1 AREA=0.001203 SQ MI  
PER A=0.0 PER-B=30.0 PER C=10.0 PER D=60.0  
TP=0.1333 HR MASS RAINFALL=-1

7.106420  
00  
K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N =  
UNIT PEAK = 2.8497 CFS UNIT VOLUME = .9955 B = 526.28 P60 = 2.00  
AREA = .000722 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR  
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

3.745963  
00  
K = .125809HR TP = .133300HR K/TP RATIO = .943800 SHAPE CONSTANT, N =  
UNIT PEAK = 1.2196 CFS UNIT VOLUME = .9889 B = 337.86 P60 = 2.00  
AREA = .000481 SQ MI IA = .46250 INCHES INF = 1.14500 INCHES PER HOUR  
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=1 CODE=1

PARTIAL HYDROGRAPH 101.10

RUNOFF VOLUME = 1.58783 INCHES = ~~1019 ACRE-Feet~~  
PEAK DISCHARGE RATE = 2.93 CFS AT 1.500 HOURS BASIN AREA = .0012 SQ. MI.

FINISH



# *City of Albuquerque*

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 22, 1993

John M. MacKenzie, P.E.  
D. Mark Goodwin & Assoc, PA  
P.O.Box 90606  
Albuquerque, N.M. 87199

RE: GRADING & DRAINAGE PLAN FOR FIRE STATION 19 (G-16/D107)  
RECEIVED APRIL 13, 1993 FOR BUILDING PERMIT APPROVAL  
ENGINEER'S STAMP DATED 4/13/93

Dear Mr. MacKenzie:

Based on the information included in the submittal referenced above, City Hydrology does NOT approve this project for Building Permit.

The following comment must be addressed before this project will be approved:

1. Discuss downstream capacity and justify free discharge for this site.

If you have any questions about this project, You may contact me at 768-2727.

Sincerely,

*John P. Curtin*  
John P. Curtin, P.E.  
PWD/Hydrology

WPHYD+7711;jpc

PUBLIC WORKS DEPARTMENT



## DRAINAGE INFORMATION SHEET

PROJECT TITLE: Fire Station 19 ZONE ATLAS/DRNG, FILE #: G-16-Z / 107 <sup>D</sup>

LEGAL DESCRIPTION: Tract B and Lot 3-A, Block 2, Montgomery Heights

CITY ADDRESS: San Andres & Carlisle NE

ENGINEERING FIRM: D. Mark Goodwin & Associates, PA

ADDRESS: P.O. Box 90606 87199

CONTACT: John M. MacKenzie, PE

PHONE: 828-2200

OWNER: City of Albuquerque

ADDRESS: P.O. Box 1293 87103

CONTACT: Greg Chavez

PHONE: 764-6300

ARCHITECT: SLNB, Inc.

ADDRESS: 1620 Central, SE 87106

CONTACT: Don Schlegel

PHONE: 247-1529

SURVEYOR: City of Albuquerque

ADDRESS: P.O. Box 1293 87103

CONTACT: Dan Montano

PHONE: 764-1616

CONTRACTOR: n/a

ADDRESS: \_\_\_\_\_

CONTACT: \_\_\_\_\_

PHONE: \_\_\_\_\_

### PRE-DESIGN MEETING

☐ YES

☒ NO

☐ COPY OF CONFERENCE RECAP  
SHEET PROVIDED

DRB NO. \_\_\_\_\_

EPC NO. Z-91-24-1

PROJ NO. \_\_\_\_\_

### TYPE OF SUBMITTAL

☐ DRAINAGE REPORT

☒ DRAINAGE PLAN

☐ CONCEPTUAL GRADING &  
DRAINAGE PLAN

☒ GRADING PLAN

☐ EROSION PLAN

☐ ENGINEER'S CERTIFICATION

### TYPE OF APPROVAL SOUGHT

☐ SKETCH PLAT APPROVAL

☐ PRELIMINARY PLAT APPROVAL

☐ SITE DEVELOPMENT PLAN APPROVAL

☐ FINAL PLAT APPROVAL

☒ BUILDING PERMIT APPROVAL

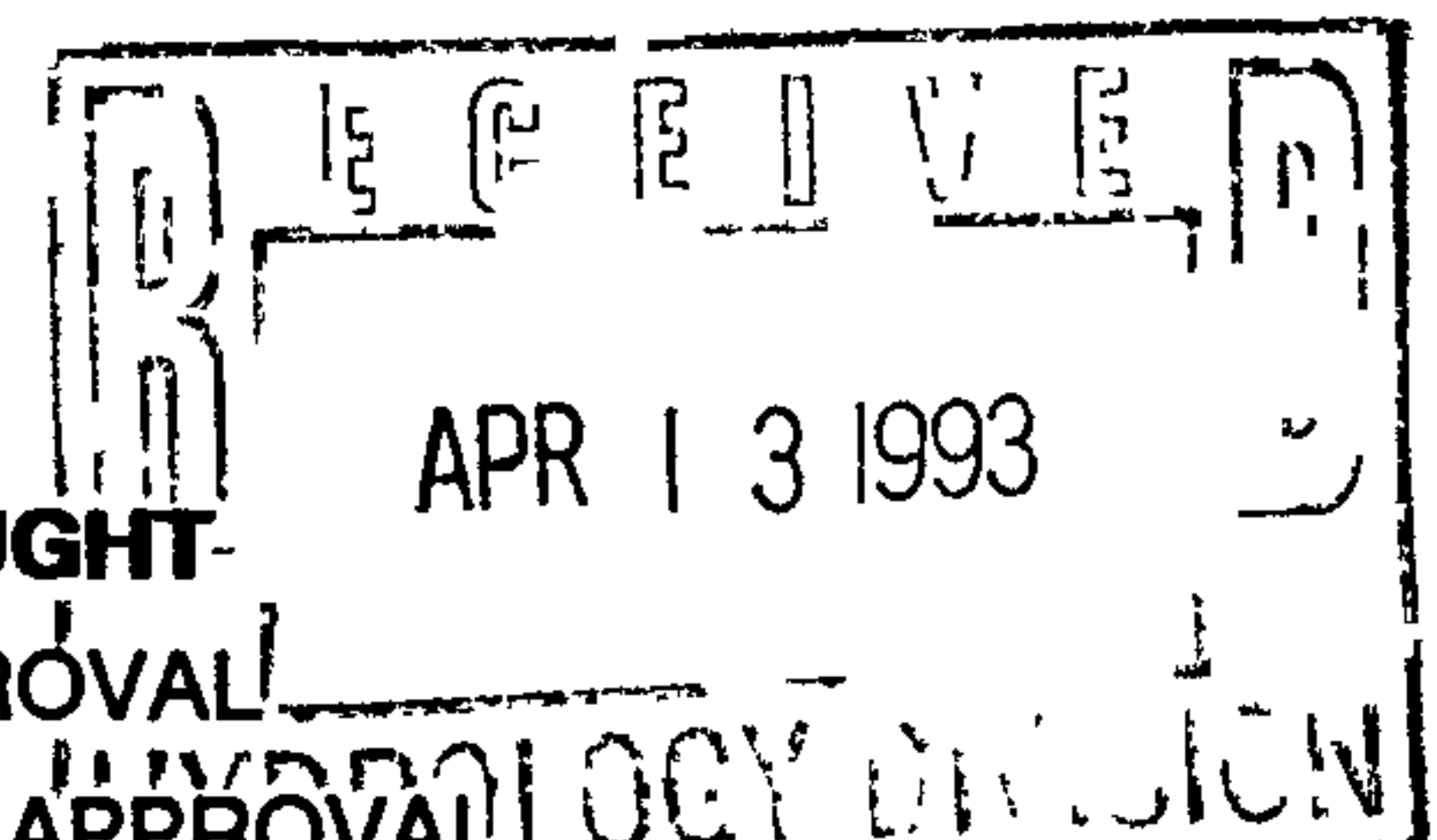
☐ FOUNDATION PERMIT APPROVAL

☐ CERTIFICATION OF OCCUPANCY APPROVAL

☐ ROUGH GRADING PERMIT APPROVAL

☐ GRADING / PAVING PERMIT APPROVAL

☐ OTHER \_\_\_\_\_



DATE SUBMITTED: April 13, 1993

BY: \_\_\_\_\_

John M. MacKenzie, P.E.

7711