



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 30, 1992

Mark Goodwin
D. Mark Goodwin & Associates
P.O. Box 90606
Albuquerque, New Mexico 87199

RE: REVISED DRAINAGE PLAN FOR BRUNACINI WAREHOUSE (E-17/D41X), ENGINEER'S
STAMP DATED APRIL 22, 1992

Dear Mr. Goodwin:

Based on the information provided on your April 22, 1992 resubmittal, the
above referenced site is approved for Building Permit.

Please attach a copy of this approved plan to the construction sets prior to
sign-off by Hydrology.

Also, prior to Certificate of Occupancy release, concurrence from AMAFCA for
work done within their Right-Of-Way will be required.

If I can be further assistance, please feel free to contact me at 768-2650.

Sincerely,


Bernie J. Montoya, CE
Engineering Assistant

BJM:jc
WP+3283

PUBLIC WORKS DEPARTMENT

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City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

June 17, 1993

Mark Goodwin
D. Mark Goodwin & Associates
P.O. Box 90606
Albuquerque, NM 87199

RE: DRAINAGE PLAN FOR A COOLER ADDITION TO THE BRUNACINI WAREHOUSE @
5801 MIDWAY PARK NE (E17-D41X) ENGINEER'S STAMP DATED 6/9/93.

Dear Mr. Goodwin:

Based on the information provided on your June 10, 1993 submittal, the above referenced site is approved for Building Permit.

Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

If I can be of further assistance, please feel free to contact me at 768-2667.

Sincerely,

Bernie J. Montoya, CE
Engineer Associate

BJM/d1/WPHYD/3283

xc: Alan Martinez
File

PUBLIC WORKS DEPARTMENT



City of Albuquerque

August 30, 2000

J. Arthur Blessen, P.E.
Claudio Vigil Architects
1305 Tijeras, NW
Albuquerque, NM 87102-2882

RE: ENGINEER'S CERTIFICATION FOR INDUSTRIAL AND MINE SUPPLY
COMPANY, 5820 MIDWAY PARK BLVD., NE, PHASE III BUILDING
ADDITION, (E-17/ D041X), ENGINEER'S STAMP DATED 1/27/00,
CERTIFICATION DATED 08/24/2000.

Dear Mr. Blessen,

Based upon the information provided in your submittal dated
August, 25, 2000, the Engineering Certification for Certificate
of Occupancy for the project referred to above is approved.

If you have any questions, please call me at 924-3988.

Sincerely,

Stuart Reeder, P.E.

Stuart Reeder, P.E.
Hydrology Division

xc: Whitney Reiersen
✓ File



City of Albuquerque

February 17, 2000

J. A. Blessen, P.E.
Claudio Vigil Architects
1305 Tijeras NW
• Albuquerque, NM 87102-2882

**RE: INDUSTRIAL AND MINE SUPPLY COMPANY, PHASE III BUILDING ADDITION,
MIDWAY BUSINESS PARK (E17-D41X). GRADING AND DRAINAGE PLAN FOR
SITE DEVELOPMENT PLAN FOR BUILDING PERMIT AND FOR BUILDING
PERMIT APPROVALS. ENGINEER'S STAMP DATED JANUARY 27, 2000.**

Dear Mr. Blessen:

Based on the information provided on your January 27, 2000 submittal, the above referenced project is approved for Site Development Plan for Building Permit and for Building Permit.

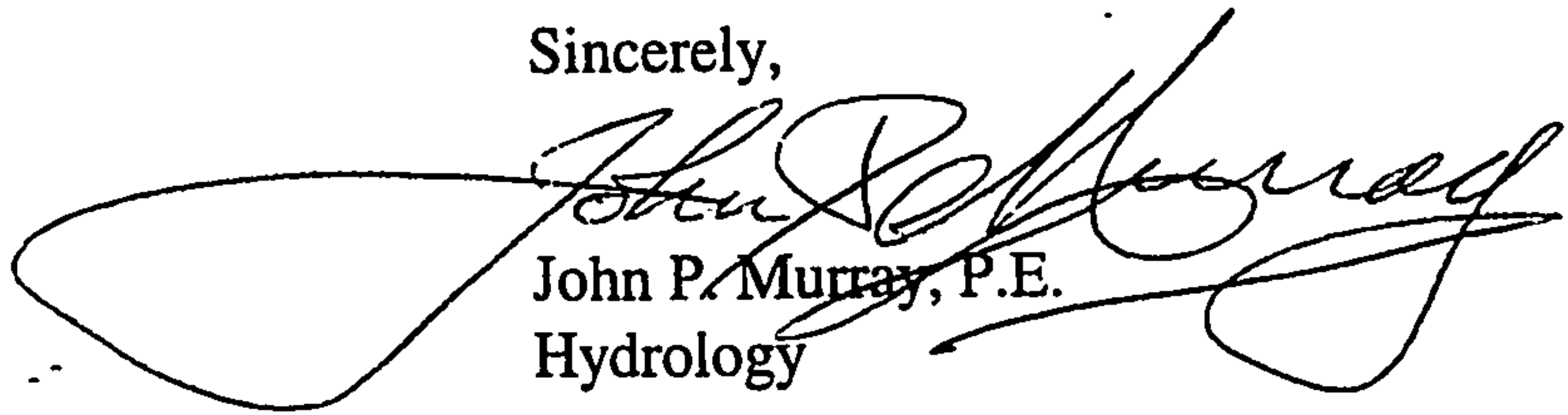
Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Before doing so, however, add notation "existing" and "proposed" to building pads. Also state the Master Drainage Plan "Q" in the narrative.

Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

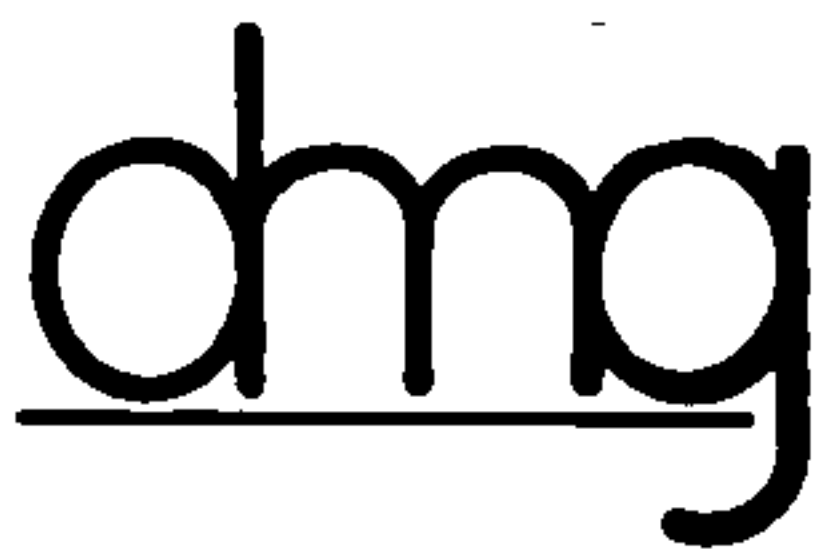
Prior to Certificate of Occupancy approval, an Engineer's Certification per the DPM will be required.

If I can be of further assistance, please feel free to contact me at 924-3984.

Sincerely,


John P. Murray, P.E.
Hydrology

c: WR
✓ File



D. MARK GOODWIN & ASSOC.
CONSULTING ENGINEERS

JOB Branacini Warehouse
SUBJECT Drainage Calculations
JOB NO. 92-21 SHEET 2 OF 2
BY JMM DATE 3/27/92
CHECKED _____ DATE _____

DEVELOPED

$$\text{Area A} = 0.496 \text{ Ac.}$$

$$T_c = 10 \text{ min}$$

$$I_{100} = 4.65 \text{ in/hr}$$

$$\text{Composite "C"} = 0.82$$

$$Q_{100} = 1.89$$

$$V_{(SCS)} = 2521 \text{ cu. ft.}$$

Composite "C"

Area

$$\text{Roof } 0.90 \quad 0.154 \text{ Ac.}$$

$$\text{Pavement } 0.95 \quad 0.220 \text{ Ac.}$$

$$\text{Gravel/Walks } 0.40 \quad 0.029 \text{ Ac.}$$

$$\text{Landscape } 0.25 \quad 0.004 \text{ Ac.}$$

$$0.407 \text{ Ac.}$$

$$\text{"C"} = \frac{0.407}{0.496} = 0.82$$

$$\text{Area B} = 0.824 \text{ Ac.}$$

$$T_c = 10 \text{ min}$$

$$I_{100} = 4.65 \text{ in/hr}$$

$$\text{Composite "C"} = 0.93$$

$$Q_{100} = 3.55 \text{ cfs}$$

$$V_{(SCS)} = 4881 \text{ cu. ft.}$$

Composite "C"

Area

$$\text{Roof } 0.90 \quad 0.171 \text{ Ac.}$$

$$\text{Pavement } 0.95 \quad 0.588 \text{ Ac.}$$

$$\text{Landscape } 0.25 \quad 0.004 \text{ Ac.}$$

$$0.762 \text{ Ac.}$$

$$\text{"C"} = \frac{0.762}{0.824} = 0.93$$



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

JOB Brunacini Warehouse

SUBJECT Drainage

JOB NO. 92-21

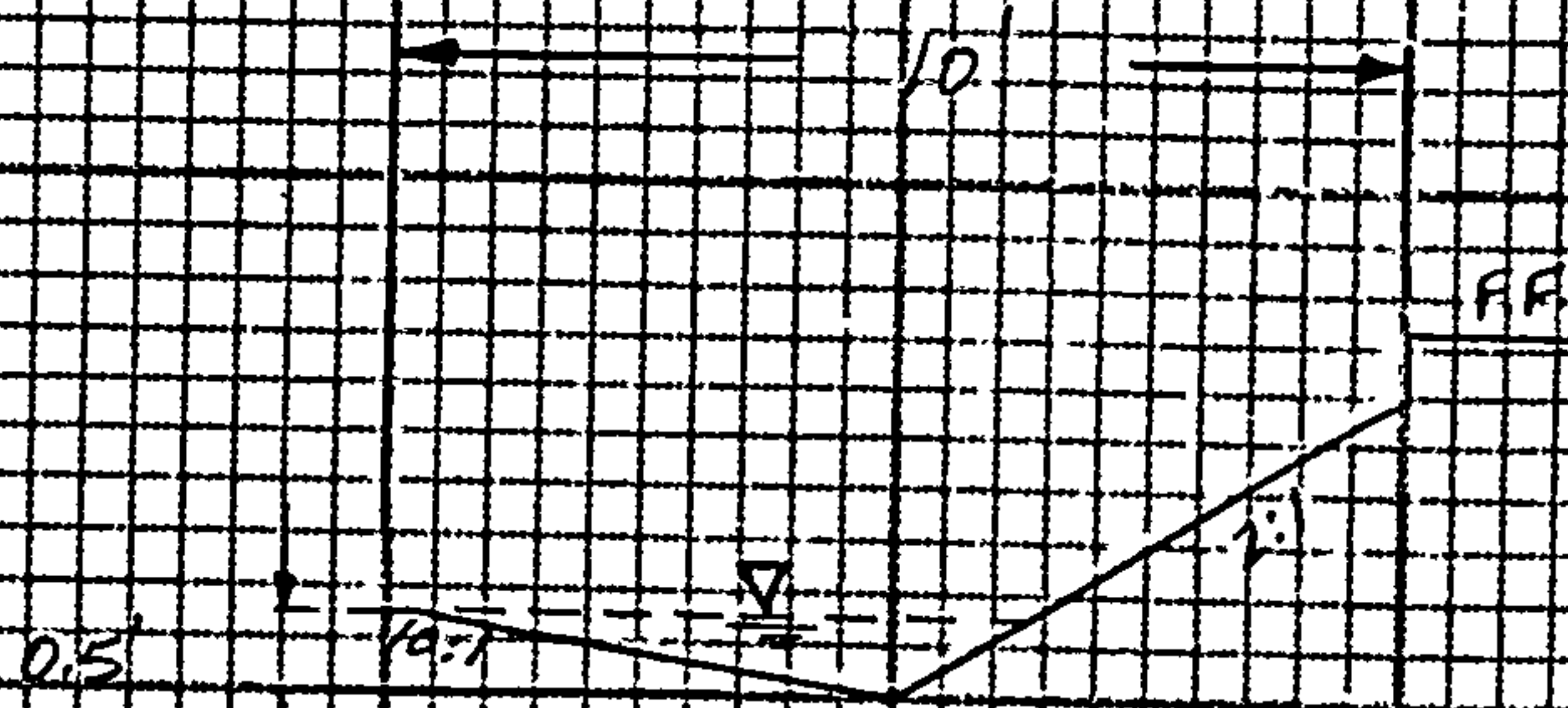
SHEET 1 OF

BY JMM

DATE 4.14.92

CHECKED

DATE



GRAVEL SWALE

NTS

Capacity at full flow:

$$WP = 5.02' + 1.12' = 6.14'$$

$$Area = 1.50 \text{ ft}^2 \quad \text{Slope} = 0.014$$

$$R_H = \frac{1.5 \text{ ft}^2}{6.14 \text{ ft}} = 0.24 \text{ ft}$$

$$V = \frac{1.486}{n} R_H^{2/3} S^{1/2} = \frac{1.486}{0.03} (0.24)^{2/3} (0.014)^{1/2}$$

$$V = 2.30 \text{ fps}$$

$$Q = VA = (2.30 \text{ fps})(1.5 \text{ ft}^2)$$

$$Q_{CAPACITY} = 3.45 \text{ cfs}$$

$$Q_{ACTUAL} = 2.78 \text{ cfs}$$



MAR 30 1992
D. MARK GOODWIN & ASSOC.
CONSULTING ENGINEERS

JOB Brunacini Warehouse
SUBJECT Drainage Calculations
JOB NO. 92-21 SHEET 1 OF 2
BY JMM DATE 3/27/92
CHECKED _____ DATE _____

We have proposed two drainage plan. Area "A" on the north side directs flow down the gravel swale along the building while "B" directs flow along the south side and over the driveway.

Total Area : 1.330 Ac.

P(100-6) : 2.2 in

No off-site drainage on this project

UNDEVELOPED

"C" = 0.40

$T_c = 10 \text{ min}$

$I_{100} = 4.65 \text{ in/hr}$

$Q = 2.47 \text{ cfs}$