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

February 23, 1984

Mr. Lloyd Salles
8200 Jefferson NE
Albuquerque, NM 87109

REF: GRADING AND DRAINAGE FOR J.C. BALDRIDGE LUMBER COMPANY SITE
(C17-D4) RECEIVED FEBRUARY 3, 1984

Dear Mr. Salles:

The above referenced plan, dated January 30, 1984, is approved.

Please attach a copy of this plan to the construction set prior to issuance of the building permit.

If I can be of further assistance, please contact me at 766-7644.

Yours truly,

Billy J. Goolsby

Billy J. Goolsby, PE
City/County Flood Plain Admin.

BJG:mrk

LEEDSHILL-HERKENHOFF, INC.
500 Copper Avenue N.W.
P. O. Box 1217
Albuquerque, New Mexico 87103
(505) 247-0294

1522-810.12-87

November 2, 1987

Mr. Carlos A. Montoya, P.E.
City/County Flood Plain Admin.
Design Hydrology Section
Albuquerque, NM 87102

RE: DRAINAGE PLAN REVISION FOR J.C. BALDRIDGE LUMBER CO. (C-17-Z)

Dear Mr. Montoya:

Attached is a revised drainage plan for the J.C. Baldridge Lumber Co. site, concerning a building permit approval. This plan is a revision of the existing drainage plan approved by your office in February 1984. This revised site includes an addition to the main building (shown on drainage plan).

Also transmitted herewith are the following items:

1. Pre-Design recap sheet.
2. Drainage Information Sheet.
3. Drainage Plan; Stamped, Signed and Dated.
4. Latest Revision Approval Letter.
5. Copies of a portion of the Original Drainage Calculations.

As shown in the calculations, the drop inlet used to drain the site into the abutting channel was originally designed for 55 cubic feet per second. Field investigation shows that the inlet appears to be operating satisfactorily to date. Since the design flow of the inlet is greater than the maximum runoff calculations, it is concluded that the inlet has capacity for the additional cover area.

If you have any questions, please call.

Very truly yours,

WAIN COOPER, P.E.
bz
Attachment

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Baldridge Lumber Co. Addition ZONE ATLAS/DRNG. FILE #: C17 /D4

LEGAL DESCRIPTION: T11N, R3E, Section 14 Portion of E ¼ S.W. ¼ SE ¼ SEC. 14

CITY ADDRESS: 8200 Jefferson N.E.

ENGINEERING FIRM: Leedshill-Herkenhoff, Inc. CONTACT: Chris Philips, Wain Cooper

ADDRESS: P.O. Box 1217, ABQ. N.M. 87103 PHONE: 247-0294

OWNER: J.C. Baldridge Lumber Co. CONTACT: Lloyd Sallee

ADDRESS: P.O. Box 13537, ABQ N.M. 87192 PHONE: 823-2206

ARCHITECT: de la Torre, Rainhart, P.A. CONTACT: ISAAC Benton

ADDRESS: 700 Lomas N.E., ABQ. N.M. 87102 PHONE: 842-

SURVEYOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: Jaynes Corp. CONTACT: Pat Woodford.

ADDRESS: 2906 Broadway N.E, ABQ., N.M. 87107 PHONE: 345-8591

RECEIVED
NOV 03 1987
HYDROLOGY SECTION

PRE-DESIGN MEETING:

✓ 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

___ 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

___ CERTIFICATE OF OCCUPANCY APPROVAL

___ ROUGH GRADING PERMIT APPROVAL

___ GRADING/PAVING PERMIT APPROVAL

___ OTHER _____ (SPECIFY)

DATE SUBMITTED: _____

BY: _____

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 9, 1987

Wain Cooper
Leedshill-Herkenhoff, Inc.
Post Office Box 1217

RE: DRAINAGE PLAN FOR AN ADDITION FOR J.C. BALDRIDGE LUMBER COMPANY
(C-17/D4) ENGINEER'S STAMP DATED NOVEMBER 2, 1987

Dear Mr. Cooper:

Based on the information provided on your submittal of November 3, 1987, the above referenced plan is approved for Building Permit.

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

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

Cordially,

Bernie J. Montoya

Bernie J. Montoya, C.E.
Engineering Assistant

BJM/bsj

GORDON HERKENHOFF & ASSOCIATES ALBUQUERQUE SANTA FE ENGINEERING COMPUTATIONS	NAME OF PROJECT Baldridge Lumber		SHEET NUMBER OF
	COMPUTED BY Cooper	CHECKED BY	JOB NUMBER 1506.32	DATE

Storm water Runoff Calculations

Offsite: Area = 11.4

C = 0.40

length of run = 1200'

elev diff = 24'

T_c = 8.2 min

$I_{100} = \frac{189}{8.2+25} = 5.69$ in/hr

$Q_{100} = CIA = (0.4)(5.69)(11.4) = 26$ cfs

Combined Areas (Baldridge site + offsite)

Area = 11.4 + 3.4 = 14.8

weighted C = $\frac{.4(11.4) + 1.0(3.4)}{14.8} = 0.54$

length of run = 1600'

elev diff = 30'

T_c = 10.2

$I_{100} = 189/10.2+25 = 5.37$ in/hr

$Q_{100} = (.54)(5.37)(14.8) = 42.9$ cfs

Design inlet for 43 cfs

GORDON HERKENHOFF & ASSOCIATES ALBUQUERQUE SANTA FE ENGINEERING COMPUTATIONS	NAME OF PROJECT Baldridge Lumber		SHEET NUMBER OF
	COMPUTED BY Cooper	CHECKED BY	JOB NUMBER 1	DATE

Calculate flow for 30" RCP flowing full on 1% Grade

Using Manning's Formula, $Q = \frac{1.486}{n} R^{2/3} S^{1/2} A$

$A_{30"} = 4.91$

$P_{30"} = 7.86$

$R_{30"} = .62$

$n_{RCP} = 0.012$

$$Q_{30"} = \frac{1.486}{.012} (.62)^{.73^{2/3}} (.01)^{.1^{1/2}} (4.91)$$

$Q = 44.4$ cfs O.K. > 43

USE 30" RCP, slope = 1%

use 30" RCP on 1% slope & 4' dia. mH with grate

GORDON HERKENHOFF & ASSOCIATES
ALBUQUERQUE SANTA FE
ENGINEERING COMPUTATIONS

NAME OF PROJECT Baldridge - Inlet detail

SHEET NUMBER
OF

COMPUTED BY | CHECKED BY | JOB NUMBER | DATE