

## City of Albuquerque P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO B7103

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

December 12, 1985

. Mr. Clinton Dodge Leedshill-Herkenhoff, Inc. 500 Copper NW Albuquerque, NM 87103

REF: ENGINEER'S CERTIFICATION FOR WATER WORKS SALES (J10-D11) ENGINEER'S STAMP DATED 11/29/85

Dear Mr. Dodge:

Based on the information provided on your December 5, 1985 submittal, certification for the above referenced drainage plan is acceptable.

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

Sincerely,

For Bernie J. Montoya, CE Engineerin Assistant/Hydrology

BJM:mrk

MUNICIPAL DEVELOPMENT DEPARTMENT

### DRAINAGE INFORMATION SHEET

TOT TITLE: WATERWORKS SALES Z	ONE ATLAS/DRNG. FILE #:
CONDECES ON MALE SIEFET NO CO	
SERING FIRM: LECTSHILL-HERKENHOFF	CONTACT: JOANN ENGLISH
FUN PLOOFE NIW	PHONE:
ER: WATERWORKS SALES	CONTACT: ROY SMITH
ADDRESS: SAME AS ABOVE	PHONE:
ADDRESS: SAME AS ASSETS  CHITECT: N/A	CONTACT:
SCHITECT: N/A	PHONE:
ADDRESS:	
EYOR: LEDSHILL-HERKENHOFF	
ADDRESS: SAME AS ABOVE	CONTROTE
N/A	PHONE:
ADDRESS:	Product
VES  NO  COPY OF CONFERENCE PROVIDED PREVIOUSLY	PROJ. NO
DRAINAGE REPORT	CHECK TYPE OF APPROVAL SOUGHT:  SKETCH PLAT APPROVAL  PRELIMINARY PLAT APPROVAL  SITE DEVELOPMENT PLAN APPROVAL  FINAL PLAT APPROVAL  BUILDINS PERMIT APPROVAL  FOUNDATION PERMIT APPROVAL  CERTIFICATE OF OCCUPANCY APPROVAL  ROUGH GRADINS PERMIT APPROVAL  GRADING/PAVING PERMIT APPROVAL  OTHER (SPECIFY)
. S SUBMITTED: 4 DEC 85	
BY: JOANN ENGLISH	



LEEDSHILL - HERKENHOFF, INC. 500 Copper Avenue N.W. P. O. 80x 1217 Albuquerque, New Mexico 87103 1505) 247-0294

1879-2023, 12-85

November 29, 1985

Bernie Montoya City/County Flood Plain Administration Design Hydrology Section 123 Central N.W. Albuquerque, New Mexico 87102

RE: ENGINEERING CERTIFICATION FOR DRAINAGE PLAN, WATERWORKS SALES (J10-D11)

Transmitted herewith are two copies of the as constructed grading plan for the above referenced project. Shown on the drawings are existing conditions (prior to regarding), proposed contours and as-constructed contours. You will note that the as-constructed contours vary from the contours proposed. The as-constructed contours have been checked against the requirements of the proposed drainage plan and are in conformance with the intent of the drainage plan. The pond volumes in Area 2 meet or exceed the volumes required for retaining developed runoff flows. These are summarized on the plan itself.

I believe that this should meet the intent of the 1980 drainage plan and the enclosed plan is documentation of this. The grading has been verified by our surveyors and this will serve to certify that Waterworks Sales Company is in compliance with the drainage plan of 1980 and the revised plan of September of this year. Waterworks would like to resolve their outstanding certificate of occupancy as soon as possible.

This should include the information that you requested, but if there is anything else you need, please call.

JOANN ENGLISH

John Inglish

er

Encs.

cc: Roy Smith, Waterworks Sales, Albuquerque James Warner, President, Waterworks Sales

DEC 02 1985



600 WEST 48TH AVENUE DENVER, COLORADO 80216 (303) 292-6206 OCT 0.7 1985

DHO3AB

HYDROLOGY SECTION

### WATERWORKS SALES COMPANY MYDROLOGY SECTION

A Corporate Trade Name of J. M. Warner, Inc.

October 2, 1985

file with

Mr. Bernie J. Montoya Engineering Assistant Hydrology City of Albuquerque P.O. Box 1293 Albuquerque, New Mexico 87102

Re: Revised Drainage Plan JlO-Dll

Dear Mr. Montoya:

Thank you for your letter of September 26 with copy of approval letter dated September 17.

Appreciate your propert assistance and cooperation with our problem.

Sincerely

WATERWORKS SALES COMPANY

James B. Warner Fresident

17



## City of Albuquerquer que P.O. BOX 1293 ALBUQUEROUE, NEW MEXICO 87103

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

September 26, 1985

James B. Warner Waterworks Sales Company 600 West 48th Avenue Denver Colorado 80216

REF: REVISED DRAINAGE PLAN FOR WATERWORKS SALES (J10-D11)

Dear Mr. Warner:

Attached you will find a copy of the approval letter dated September 17, 1985 which was mailed to your Engineer.

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

Sincerely,

Bernie J. Montoya Bernie J. Montoya Engineering Assistant Hydrology

BJM/c1

MUNICIPAL DEVELOPMENT DEPARTMENT



600 WEST 48TH AVENUE DENVER, COLORADO 80216 (303) 292-6206

#### WATERWORKS SALES COMPANY

A Corporate Trade Name of J. M. Warner, Inc.

September 19, 1985

Mr. Carlos A. Montoya, P.E. City/County Flood Plain Administrator Design Hydrology Section 123 Central N.W. Albuquerque, New Mexico 87102 SEP 24 1985
HYDROLOGY SECTION

RE: Revised Drainage and Grading Plan For Waterworks Sales Company (J10-D11)

Dear Mr. Montoya:

On September 12, 1985, Leedshill-Herkenhoff, Inc., resubmitted information applicable to improvements needed for our Albuquerque facility to comply with your requirements.

We would respectfully request a reply at your very first convenience, in order that we might proceed with whatever construction is required for compliance.

If I might personally assist in the process, please do not hesitate to advise me accordingly.

Thank you for your consideration.

Sincerely,

WATERWORKS SALES COMPANY

James B. Marrer

James B. Warner President

JBW:c

cc: Ms. Jo Ann English Leedshill-Herkenhoff, Inc.

> Mr. Roy Smith Waterworks Sales Company A!buquerque Office



### City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

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

September 17, 1985

Joann English Leedshill-Herkenhoff, Inc. 500 Copper NW Albuquerque, NM 87103

REF: REVISED DRAINAGE PLAN FOR WATER WORKS SALES (J10-D11) RECEIVED SEPTEMBER 13, 1985

Dear Joann,

Based on the information provided on your September 13, 1985 resubmittal, revisions as indicated are acceptable.

Please advise your client that future drainage improvements on 64th st. and Glenrio are in the planning process. When the facilities become available they may want to do away with their ponding areas and obtain free discharge into the streets. A revised drainage plan will be required at that time if they elect to tie into the facility.

A certificate of occupancy will be issued after the certification is submitted and reviewed. If I can be of further asisstance, please call me at 766-7644.

Sincerely,

Bernis J. Montoya CE

Engineering Assistant Hydrology

BJM/c1

MUNICIPAL DEVELOPMENT DEPARTMENT



September 12, 1985



Carlos A. Montoya, P.E. City/County Flood Plain Administration Design Hydrology Section 123 Central N.W. Albuquerque, NM 87102

RE: REVISED DRAINAGE AND GRADING PLAN FOR WATERWORKS SALES (J10-D11)

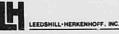
Per your request of July 25, 1985, I am enclosing these items in this package. Enclosed you will find:

- 1. Information sheet designating resubmittal
- Revised grading plan with engineer's stamp.
  Calculations of developed flow rates and proposed ponding volume.

Briefly, the Waterworks Sales site was examined for historic versus developed Briefly, the waterworks sales site was examined for historic versus developed flow rates to determine the retaining pond volume required. The calculations are enclosed. The historic runoff apparently drained from the site towards the southeast. There were no ponds evident from the original contours prepared by Enchantment Engineering in 1980. It was assumed therefore that the historic runoff volume would be allowed to exit from the site and that only the increased runoff volume due to development would be required to be only the increased runoff volume due to development would be required to be retained on site.

Based upon this assumption, runoff was calculated per DPM standards. The result was that the developed peak runoff Q was increased from 6.4 to 9.16 result was that the developed peak runoff Q was increased from 0.25 AF to 0.36 AF for the 100 cfs and that the volume was increased from 0.25 AF to 0.36 AF for the 100 year storm. Based upon these calculations, the existing ponding areas on the site were checked for capacity, and were found to be of insufficient volume to retain the G.11 AF required.

It is proposed that one area of the site be regraded to provide the additional ponding volume (see drawing). The volume for the entire site per this grading plan is 0.19 AF. Ponds in drainage areas 1 and 2 have been reduced in volume by 30% to account for displacement by size at a second to the second the size at a second to the size at a s reduced in volume by 30% to account for displacement by pipe storage in the



Carlos A. Montoya, P.E. September 12, 1985 page 2

ponds. The net result is that the peak runoff Q is increased, but the actual runoff volume is decreased from the historic values. This is in compliance with the intent of the original grading and drainage plan prepared by Enchantment Engineering in January 1980.

Please review the enclosed submittal and advise us if this is acceptable and meets your requirements. If it is, we will recommend to Waterworks Sales that the construction be completed so that their outstanding certificate of occupancy may be resolved.

Thank you,

JØANN

bz

Enc.

cc: Roy Smith, Waterworks Sales, w/enc.

### DRAIMAGE INFORMATION SHEET

TI DODANN ENGLISH
ria head
247-0294
TI 1204 SHITH
TI VOI GUTHRIE
TI KIM STELZER
CT:
OF APPROVAL SOUGHT:   PLAT APPROVAL
INARY PLAT APPROVAL
DEVELOPMENT PLAN APPROVAL
PLAT APPROVAL
INS PERMIT APPROVAL ATION PERMIT APPROVAL.
ATION PERMIT APPROVAL.  FICATE OF OCCUPANCY APPROVAL.  GRADING PERMIT APPROVAL.  NG/PAVING PERMIT APPROVAL.  R. <u>Revisión</u> (SPECIFY)



### City of Albuquerque

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

July 25, 1985

Mr, Kenneth Guthrie Leedshill-Herkenhoff, Inc. 500 Copper Ave. NW P.O. Box 1217 Albuquerque, NM 87103



REF: REVISED DRAINAGE & GRADING PLAN FOR WATERWORKS SALES (J10-D11) **RECEIVED 7/22/85** 

Dear Mr. Guthrie:

Based on the information provided on your July 22, 1985 submittal, listed you will find certain concerns that will need to be addressed before final approval is granted:

- 1. Information sheet designating resubmittal.
- 2. Engineer's stamp with signature and date.
- 3. Calculations showing developed flow rates along with the proposed ponding volume.
- 4. Detail showing the proposed ponding area along with the required elevations for construction purposes.
- 5. In placing the pipes back into the proposed ponding area, how much displacement of volume do you anticipate? Please address.

If you have an questions or comments, please feel free to contact us at 766-7644.

> Carlos A. Montoya PE City/County Flood Plain Admin.

CAM/BJM/cl

MUNICIPAL	DEVEL	OPMENT	DEPA	RTMEN
-----------	-------	--------	------	-------

Telephone (505) 766-7467 ENGINEERING DIVISION C. Dwayne Sheppard, P.E., City Engineer = AN EQUAL OPFORTUNITY EMPLOYER =

## CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION/DESIGN HYDROLOGY SEC

m	كرعمسور	7
ᄤ	SEP 13 1985	
III (	PROLOGY SECTION	J
2/8/	F!	

HYDROLOGY SECTION PROJECT NO.: JID DATE: 2/8/85
PLANNING DIVISION NOS. EPC: DRB:
CONFERENCF RECAP
SUBJECT: 901 64th St NW ( WATTA WORKS SALES) (ORIFINAL PLAN APPROVED 196
APPROVAL_REQUESTED:
PRELIMINARY PLAT FINAL PLAT
SITE DEVELOPMENT PLAN BUILDING PERMIT
ROUGH GRACING
WHO REPRESENTING
ATTENDENCE: Jo ALL English
FRED J. ADVINCE
FINDINGS: 1. UPDATED DECIMARY PER REQUERTS FOR BUILDING PERMIT
2. CONTROLLED DISCHARGE REPURED IN VIEW OF THE
FRISTING FLOODING PRODEEN DOWNSTRIAM OF THIS LITE.
3. The ALLOWARIE DISCHARGE IS DEPENDENT ON DOWNSTREAM
CAPPOLITY. SEE APPROVED DROWDER REPORT FILE NO HII-DZZ
FOR STORM DROW CAPPELLY DOWNSTREAM
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: Jan Usun SIGNED: Ollan Gaglish
TITLE: TITLE:

			1111	
LEEDSHILL - HERKENHOFF, INC.	WATERWO	PRKS SALES	別	SEP 13 1985
SAN DIESO SAN FRANCISCO ENGINEERING COMPUTATIONS	COMPUTED BY:	CHECKED BY:	划	MAN SECTION 85

#### CALCULATIONS FOR DEVELOPED FLOW RATES

THIS ANALYSIS INCLUDES ONLY ON SITE FLOWS FOR THE EXISTING WATERWORKS SALES OFFICE ON 64th ST ! GLENRIO CALCULATIONS PER DAM

#### SITE TOPOGRAPHY:

- -SITE IS VERY FLAT AND IS GENERALLY HIGHER IN ELEVATION ON THE EAST AND WEST SIDES. PIPE STORAGE AREA IS SOMEWHAT BOWL SHAPED.
- MAJORITY OF WATER IS RETAINED ON SITE BECAUSE IT CAN'T GET OUT ONTO 64+h & GLENRIO
- PRIOR TO DEVELOPMENT, SITE WAS PLAT WITH SLOPE NW TO SE, THERE WERE NO APPARENT PONDS, SO IT IS ASSUMED THAT ALL RUNOFF WAS ALLOWED TO ENT THE SITE. (REF. ORIGINAL PLANS FOR SITE BY ENCHANTMENT ENGINEERING DATED JAN. 1980)
- FLOW IS KEPT ON SITE BY A BLOCK WALL ON THE WEST SIDE OF THE SITE.
- "WATER WILL POND TO APPROX. EL. 5099.4 ON THE NORTHERN PORTION OF THE SITE BEFORE IT ENTERS ONTO 64th STREET
- WATER FROM THE SOUTHERN PORTION OF THE SITE WILL BEGIN TO ENTER ONTO GLENRIO WHEN THE WATER SURFACE ELEVATION EXCEEDS 5099.5
- -TYPICAL SLOPES AND LENGTHS ACROSS THE SITE ARE:

APPROX. STA.	L.	AE	<u> 3</u>	Tc*
5+00 (W)	1301	.61	.0042	2.34
5+00 (E)	95'	1.11	0.012	1.53
6+25(E.)	1251	1.51	0.012	1.89
7+50 (E)	90'	٠١٠,	0.0011	3.56
END BLDG (N)	1501	10'	0.007	2.46

BECAUSE To VALUES ARE SO LOW ACROSS ENTIRE SITE, USE TO MINUTES.

- BECAUSE LISTORIC RUNOFF WAS ALLOWED TO EXIT FROM SITE, IT IS ASSUMED THAT DEVELOPED RUNOFF MUST BE RETAINED ON SITE, PONDING VOLUME MUST EQUAL DEVELOPED RUNOFF - HISTORIC RUNOFF, THIS IS IN ACCORDANCE WITH ORIGINAL DRAINAGE AND GRADING PLAN FOR SITE DATED JAN. 1980.

LEEDSHILL- HERKENHOFF, INC. NAME OF PROJECT	SHEET NUMBER
ALBUQUERQUE SANTA FE WATERWORLS SALLES	Z OF
SAN DIEGO SAN FRANCISCO COMPUTED BY: CHECKED BY: JOB NUMBER 2023.12	SEPT. 85
ENGINEERING COMPUTATIONS	341.00
FROM PLATE 22.2 D-1, L HR 100 YR RAINFALL 15 2.2"	
RAINFALL INTENSITY = 4 2.2(2,114) = 4.65 INCHE AREA OF ENTIRE SITE = 210 x 835 = 175350 SF = 4	S/HOUR
PAVED AREAS AND BUILDING - 45725 SF - 1.05 AC	المدادة
SOIL GROUP B - TYPE HWA MADUREZ WINK SERIES	
C VALUES FROM PLATE 22. C-1	
0,0	
25% IMPERVIOUS , C = 0.45 SEP	1 3 1985
	50V 6W
Q=CIA = 0.34(4.65)(4.02) = 6.4 cfs	GY SECTION
+ = CRA = 0.34(2.2)(4.02) = .25 AF	
- EXISTING CONDITIONS INDICATE THREE DISTINCT I	PRAINAGE
AREAS , LOOK AT EACH INDIVIDUALLY	Halling
DRAINAGE AREA #1	I control
AREA = 220 x 210 = 46200 SF = 1.06 AC	
AREA IS IN CLOSE TO NATURAL CONDITIONS	
Q = .34(1.06)(4.65) = 1.68 cf5	
¥ = .34(1.06)(2.2) = 0.07 AF	
BECAUSE AREA HAS NOT BEEN DEVELOPED, Q DEV =	QHIST
AND NO PONDING IS REQUIRED.	
DRAINAGE AREA #2	
AREA = 470 x 210 = 98700 SF = 2.27 AC	
IMPERVIOUS AREA = 20250 SF (20% OF AREA)	
C FACTOR FOR 20% IMPERVIOUS = 0.43	
Q = .34(2.27)(4.65) = 3.59 cfs	11.11.11
Q. DEVELOPED = .43(2.27 X 4.65) = 4.54 CFS	HERE PLET
OF DEVELOPED -	Heilbill.
ΔQ: 0.95 cfs	14-241111111
₩ UNDENELOPED = 34(2.2)(2.27) 14 AF	
+ DEVELOPED = . 43(2.2) 2.27)= .18 AF	
A+= 0.04 AF 12	
A V - 0 OF AF	

LEEDSHILL- HERKENHOFF, INC.	NAME OF PROJECT	ORKS SA	LES	SHEET NUMBER
SAN DIEGO BAN FRANCISCO	COMPUTED BY:		JOB NUMBER 2023.12	SEPT. 85
ENGINEERING COMPUTATIONS  DRAINAGE AREA #3				
AREA = . 69 AC				
% IMPERVIOUS = 95				
C FACTOR FOR 95% QuinocieLoped = 0.34 (4	1MPERVIO	US = .92 )= 1.09 C	Ps .	
Quevergeo = 0.92 (4.	65X.69)	- 2.95cf	nce.	
A Q = 1.86 cfs			SEP 1	
Yundeveloped = . 84(2. Y DEVELOPED = . 92(2. D + = 0.08AF	2)(.69) = 2)(.69) = 72	0.04 AF	HYDROLOG	
	- 1 -	(TOP 500	SITIRE D	EVELOPED S
Calculate composite Comp = .34 ( 1.06 )	.45 ( 2.7	27 ) + .92	$\left(\frac{.89}{4.02}\right)$	
= .089 + O.	24 + .16	- 0.49		
RECALCULATE RUNOF Q = .49 (4.65)(4.	OB) = 9.2	5 cfs	16 Ccomp	
¥ = .49(2.2)(4.0	B) = .34	AF		
△+ = 36 AF -1				
PROPOSE TO DO THE	FOLLOW	ING :		
I. AREA 3 HAS BEEN	CONSTR	DUTED ,5	DO NOT	WANT TO
REVISE THIS AREA	IF POS	SIBLE		
2. PROPOSE TO RETA	IN SOME	RUNOFF ISTORIC.	IN AREAS I	AND 2
3. BY ACCOMPLISHING	ACTUAL	PEAK R	DNOEL OF B	OI WILL
EQUAL OR DECRE	ASE Valu	ME OF R	unoff exi	TING TO
GLENRIO AND 60				E INTEN
OF THE ORIGINAL	GRADIN	G/DRAINA	GE PLAN.	

LEEDSHILL - HERKE	NHOFF, INC. NAME OF PROJECT	IRKS SALES		SHEET NUMBER  4  OF
	SAN FRANCISCO COMPUTED BY:	CHECKED BY:	JOB NUMBER 2023. 12	DATE: SEPT 85.
CALALILATIONA:	OF EXISTING PO			1001
	A #1 - WATER CA			2 /2
	ROSSES A SLIGH			
ONTO 64th 5	TREET.			_
EL. 99.2 AF		= 1145 SF	2	29 CF
EL. 99. 6 AP	EA = 9457 SF / 1	= 5772 SF		154 CF
			Z+	1383 CF
	1111	EP 13 1985		
DRAINAGE AREA	1#2- HYDRO	DIOGY SECTION	יי.	
EL . 99.0 AR	EA = 371 SF	N- 21 14 SE		<del>*</del>
EL. 99.2 A	2EA = 4857 SF (	A - 2014 3F	5	123 CF
EL. 99.4 AP	EA = 1027.9 SF >	A = 75435F	_	509 CF
			7	+ = 2032 C
	isutia.	. Jajata		
DRAINAGE ARE				+
EL.98.8 A	AREA = 57 SF AREA = 429 SF (	> A = 2435	F	49 CF
EL, 99.0 1	AREA = 1086 SF	> Ā = 758 S	SF	152 CF
EL. 99. 8 A	REA = 2029 SF	> Ā = 155a		156 CF
CL. 11. 5	REA - ZOZ-TOP /	- 1336		
F			€4	337.05
EXISTING PON	DING AREA VO	0MES - 4	3331 CE	009 AF
IN ADDITION TO	MINIMUM OF . I	REMENTS	ASSUME	THAT
	S VOLUME IN			
	PIPE STORAGE			
	AGE BY THIS A			
	3) 11 = . 14 AF			
			:1315412	

LEEDSHILL- HEI	RKENHOFF, INC. N	AME OF PROJE	WORKS SALE		SHEET NUMBER
SAN DIEGO PHOE	SAN FRANCISCO C		CHECKED BY:	JOB NU BER 2023. 12	5 OF DATE: SEPT 85
DRAINAGE AR	EA #1- REM		IS MER	1 3 1985	83 CF
DRAINAGE AR	EA #3 - REP PON	72125 A	15	71111	354 CF
DRAINAGE ARE NEW POND VOL		de Per	DRAWING		
POND ZA					4
	AREA : 4011 AREA : 7360	> A : 5	ماه		1134
EL. 99.2 EL. 99.4	AREA : 1360	> A= 12	2680		536
				Z+	-3673
POND 2B EL. 99.0 A	REA = 3344	> A = 4	19 <b>2</b>		958 874
	AREA = 13244 MREA = 1428 :		BO 6860	-	1456 1372
	REA = 8321 REA = 11640	5 - 9			1996
				Z	4410 4242
POND 2C EL. 99.0 A	1886		125		4
EL. 99.2 A	REA = 1378 REA : 4984	> A = 3	81	6	36 681
GL. 99.4 A	REA = 9720	7A=73	52	14	70
				2,2	106 2157
TOTAL PONDIN	G ON SITE	13831	357+3673+	4410+2104	- 11929 CF
IN AREAS I AND OF POND VO 357 + .7	LUME, THE	EREFURE	POND V	PLUMB =	0 - 8457 C
SUMMARY	= /· A	. O.			= 0.19 AF
2.0	OPED = 6.4				
	ED = 9.14				
HUNDEVELO	PED = 0.25	PAS			
	eo = 0.36				
	REQ'D = 0		5 = 0.11 AF		
DONDING		= 0.19	AF COURTE	CTED FOR	PIPE



### City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

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

July 25, 1985

Mr, Kenneth Guthrie Leedshill-Herkenhoff, Inc. 500 Copper Ave. NW P.O. Box 1217 Albuquerque, NM 87103

REF: REVISED DRAINAGE & GRADING PLAN FOR WATERWORKS SALES (J10-D11)
RECEIVED 7/22/85

Dear Mr. Guthrie:

Based on the information provided on your July 22, 1985 submittal, listed you will find certain concerns that will need to be addressed before final approval is granted:

- 1. Information sheet designating resubmittal.
- 2. Engineer's stamp with signature and date.
- Calculations showing developed flow rates along with the proposed ponding volume.
- Detail showing the proposed ponding area along with the required elevations for construction purposes.
- In placing the pipes back into the proposed ponding area, how much displacement of volume do you anticipate? Please address.

If you have an questions or comments, plesse feel free to contact us at 766-7644.

Sincerely,

Carlos A. Montoya PE

City/County Flood Plain Admin.

CAM/BJM/cl

MUNICIPAL DEVELOPMENT DEPARTMENT

C. Dwayne Shappard, P.E., City Engineer

ENGINEERING DIVISION

Telephone (505) 766-7467

AN EQUAL OPPORTUNITY EMPLOYER

LEEDSHILL-HERKENHOFF, INC. 500 Copper Avenue N.W. P. O. Box 1217 Albuquerque, New Mexico 87103 (505) 247-0294 1156-2023.12-85

July 15, 1985

Mr. Rick Duran City Engineering - Design Hydrology City of Albuquerque P.O. Box 1293 Albuquerque, N.M. 87103



RE: WATERWORKS SALES SITE DRAINAGE

Dear Rick:

Due to current business activity and a re-evaluation of future space requirements, the management of Waterworks Sales Company has decided not to expand their existing Albuquerque facility. Leedshill-Herkenhoff has been instructed to stop work on the design of the proposed building addition which was to have included a new drainage report. However, Waterworks Sales is aware that a final Certificate of Occupancy has not been issued for the existing building and that this situation needs to be addressed.

In our previous discussions with the Hydrology Department, it was agreed that the outstanding Certificate of Occupancy could be cleared if the existing pipe storage yard could be regraded to provide the necessary retention ponds. After a site visit and discussions with Roy Smith, you suggested that the aisles between the rows of pipe be regraded in order to accommodate a minimum of 75 percent of the storm water retention capacity as shown on the original drawings. After discussing this solution further, it was decided that the ponding area should be constructed under the stored pipe rather than in the access aisles. The stored pipe could be temporarily moved in order to grade for the new ponding and then the pipe restacked on the depressed area. This would avoid water standing in the access aisles. The enclosed sketch shows the approximate location of the proposed ponding.

We feel that this site modification will functionally provide the retention originally designed for the site although in a different configuration. When

Mr. Rick Duran July 15, 1985 Page 2

the concrete block wall and the linear "French" drain, both of which have been constructed along the west side of the site are considered, it appears that the proposed site drainage will be within the intent of the original drawings. The drain consists of a trench filled with rock under the west row of pipe. Photographs of the drain, the wall and the pipe storage yard are enclosed.

The Waterworks Sales Company is prepared to immediately construct the additional ponding shown on the enclosed sketch in an effort to clear the outstanding Certificate of Occupancy. However, in order to avoid a future misunderstanding, they have requested a written acknowledgement of the proposed solution. A written reply or acknowledgement by signing a copy of this letter would be appreciated.

If you need additional information or have questions please contact me. Your past assistance and advice is appreciated and hopefully we are close to resolving this problem.

Sincerely.

KENNETH GUTHRIE Vice President

Sather

jm

Enclosures



JUN 2 6 1985

HYDROLOGY SECTION

June 24, 1985



RE: Waterworks Sales Building Addition

Dear Rick:

To confirm our conversation of this morning:

- Construction of the retention ponds as shown on the original plans is not required so as not to double up on site improvements.
- 2. A drainage report for the entire site will be required for the addition building permit. This report will incorporate Fred Aguirre's requirements of controlled discharge from a detention pond.
- Outstanding certificate of occupancy can be taken care of with new drainage report if all requirements are met and report is approved.

Based on our conversation and upon receiving approval from Waterworks, we will proceed with the drainage report for the entire site.

If there is anything else required, or I have misinterpreted something, please let me know as soon as possible.

Thank you for your help.

John English JOANN ENGLISH

bz



June 11, 1985



Mr. Rick Duran Engineering Design Hydrology City of Albuquerque 123 Central N.W. Albuquerque, New Mexico 87103

Mr. Duran:

As you requested in your meeting with Mr. Miguel Cheng-Guajardo of our office, we are resubmitting the verified site plan for Waterworks Sales site with a copy of a drawing showing spot elevations in the detention pond area. It appears that these detention ponds were not constructed as originally designed.

Search Sathini

jm

Enclosure

cc: Roy Smith, Waterworks Sales

A subsidiary of Gordon Herkenhoff and Associates, Inc.



June 7, 1985



Mr. Rick Duran Engineering Design Hydrology City of Albuquerque 123 Central, Northwest Albuquerque, New Mexico 87103

RE: WATERWORKS SALES SITE SURVEY

In response to your request, enclosed is a revised site plan for the Waterworks Sales Company office and warehouse on 64th Street and Glenrio Road. This site has been surveyed and this drawing prepared to show the asconstructed site improvements. A copy of the original site layout plan prepared by Enchantment Engineering in 1980 is also enclosed for reference.

Revisions to the site development include:

- The building setback from the east property line is 40 feet, as compared to the original setback of 10 feet.
- The concrete walk and header curb extending west from the building was not constructed, and the entire area was paved with asphalt.
- 3. The landscaping area was modified.
- The concrete curb and gutter and sidewalk on the south and east sides was not constructed.
- 5. An additional parking area was constructed.
- A concrete block wall was constructed in lieu of a chainlink fence.
- A fuel pump was installed on the west side of the building.
- The drive pad and pipe at the south end of the property was not constructed.

A subsidiary of Gordon Herkenhoff and Associates, Inc.

Mr. Rick Duran June 7, 1985 Page Two

sud

**Enclosures** 

cc w/encl: Roy Smith Waterworks Sales Company

LAW OFFICES Spann, Latimer & Hollowwa DI4 FIRST INTERSTATE BANK BUILDING P.O. BOX 1031 AND P.O. BOX 1307 ALBUQUERQUE, NEW MEXICO 87103 (505) 243-3525 May 10, 1985 ANN WILCOX HOOD CHARLES C. . NN
E. DOUGLAS LA MER
J. KERWIN HOLL WWA
JAMES A. ARTLEY Cit/ of Albuquerque Engineering Division P. O. Box 1293 HAND-DELIVERED Albuquerque, New Mexico Bernie J. Montoya Hydrologic Engineering Technician RE: Waterworks Sales Company Location at 901 64th Street N.W. Dear Bernie: Rick, of your office, met with Robert Pinkard of Waterworks Sules on May 9, 1985, and reviewed the Waterworks site and the drainage plan. Rick was apparently satisfied that the ponding and water retention on the site was adequate, however, Rick indicated that it was necessary to have an updated drainage plan prepared and submitted to the City which accurately reflects the location of all improvements at the site as built, as well as the existing location of the ponds. Waterworks Sales has made immediate arrangements to have this plan prepared, which will then be submitted to you. It is my understanding that once you have reviewed that plan, you will be in a position to approve the Certificate of Occupancy. Both my client and I appreciate your consideration and cooperation in this matter, as well as the assistance of Rick and Carlos Montoya. I hope to have an updated plan to you within the next couple of weeks for your review, approval, and ultimate sign off on the Certificate of Occupancy. Again, thank you for your help. VERY TRULY YOURS, SPANN, LATIMER & HOLLOWWA J. KERWIN HOLLOWWA JKH: mo cc: Waterworks Sales Company

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

	1 64th St NW (WATTAWORKS SALES) (ORIGINAL PLAN APPROVED
	APPROVAL REQUESTED:
PRELI	MINARY PLAT FINAL PLAT
SITE	DEVELOPMENT PLAN BUILDING PERMIT
	ROUGH GRADING
	WHO REPRESENTING
TTENDENCE:	To ALL English FRED J. AGUIRRE
	FRED J. AGUIRRE
	UPDATED DEDINAGE PION REQUERTS FOR BUILDING PERMIT
2.	CONTROLLED DISCHARGE REPURED IN VIEW OF THE
	DOLLES DOLLES DOLLN STREAM OF THE JIE.
3. 7	The ALLOWARIE DISCHARGE IS DEPENDENT ON DOWNITREAM
CAPPOCITY	. SEE APPROVED DROWNER PREPORT FILE NO HII-DZZ
FOR STOR	m brow (Aprilly 100 to 1)
FOR STOR	m Drow Capocity Downstrom

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