

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Zamora Disinfection Facility ZONE ATLAS/DRNG.FILE #:E-10

DRB #: _____ EPC #: 90-93 WORK ORDER #: _____

LEGAL DESCRIPTION: Volcano Cliffs Subdivision, Unit 3 Tract B-1-B

CITY ADDRESS: 6255 Tesuque N.W.

ENGINEERING FIRM: Leedshill-Herkenhoff, Inc. CONTACT: Victoria Dery, P.E.

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

OWNER: City of Albuquerque, Water Utility Division CONTACT: Art Stuart, P.E.

ADDRESS: P.O. Box 1293, 87103 PHONE: 857-8239

ARCHITECT: Same as Engineer CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: Albuquerque Surveying, Inc. CONTACT: Vladimir Jirik

ADDRESS: 2119 Menaul N.E. 87107 PHONE: 884-2036

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

CHECK TYPE OF APPROVAL SOUGHT:

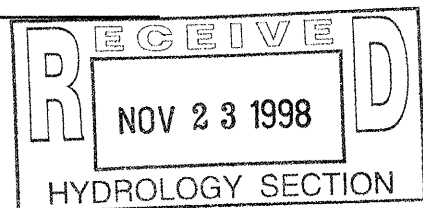
- SKETCH PLAT APPROVAL
- PRELIMINARY PLAT APPROVAL
- S.DEV. PLAN FOR SUB'D. APPROVAL
- S.DEV. PLAN FOR BLDG. PERMIT APPROVAL
- SECTOR PLAN APPROVAL
- FINAL PLAT APPROVAL
- FOUNDATION PERMIT APPROVAL
- BUILDING PERMIT APPROVAL
- CERTIFICATE OF OCCUPANCY APPROVAL
- GRADING PERMIT APPROVAL
- PAVING PERMIT
- S.A.D. DRAINAGE REPORT
- DRAINAGE REQUIREMENTS
- OTHER _____ (SPECIFY)

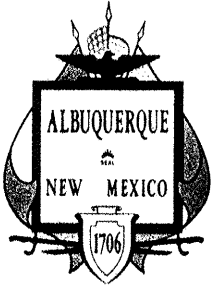
PRE-DESIGN MEETINGS:

- YES
- NO
- COPY PROVIDED

DATE SUBMITTED: November 20, 1998

BY: Victoria A. Dery Victoria A. Dery





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

January 11, 1999

Victoria Dery, P.E.
Leedshill-Herkenhoff, Inc.
P.O. Box 1217
Albuquerque, NM 87103

**RE: ZAMORA PUMP STATION AND RESERVOIR - Disinfection Facility - (E10-D8A).
GRADING AND DRAINAGE PLAN FOR BUILDING PERMIT APPROVAL.
ENGINEER'S STAMP DATED NOVEMBER 20, 1998.**

Dear Ms. Dery:

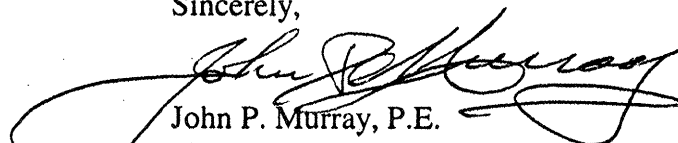
Based on the information provided on your November 23, 1998 submittal, the above referenced project is approved for Building Permit. The overall site plan, Engineer's Stamp dated August 27, 1997, for the pump station and reservoir had been submitted and approved with that submittal. Both are to be constructed at a future date.

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: ✓ Andrew Garcia
✓ File

COA/HYDROLOGY DRAINAGE CALCULATIONS

File: g:\data\projects\zamora\drain1.wk1

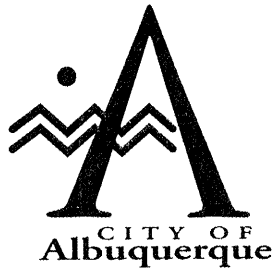
Project: Zamora Well Field Disinfection Facility

Date: 20-Nov-98

Precipitation Zone (Enter 1-4 from Table A-1): 1

Design Storm Event (Enter 2, 10, or 100): 100

Basin #	Treatment	Existing			Proposed			Subtotal	
		Area (SF)	Area (AC)	Qp (CFS)	Area (SF)	Area (AC)	Qp (CFS)	Existing	Proposed
1	A	69,727.25	1.600	2.064	59,015.20	1.350	1.742	2.064	2.252
	B	0.00	0.000	0.000	9,844.56	0.230	0.467		
	C	0.00	0.000	0.000	0.00	0.000	0.000		
	D	0.00	0.000	0.000	287.50	0.010	0.044		
2	A	48,111.43	1.100	1.419	41,834.44	0.960	1.238	1.419	1.590
	B	0.00	0.000	0.000	5,492.92	0.130	0.264		
	C	0.00	0.000	0.000	0.00	0.000	0.000		
	D	0.00	0.000	0.000	784.08	0.020	0.087		
3	A	0.00	0.000	0.000	0.00	0.000	0.000	0.270	0.270
	B	4,003.16	0.090	0.183	4,003.16	0.090	0.183		
	C	0.00	0.000	0.000	0.00	0.000	0.000		
	D	784.08	0.020	0.087	784.08	0.020	0.087		
	A	0.00	0.000	0.000	0.00	0.000	0.000	0.000	0.000
	B	0.00	0.000	0.000	0.00	0.000	0.000		
	C	0.00	0.000	0.000	0.00	0.000	0.000		
	D	0.00	0.000	0.000	0.00	0.000	0.000		
TOTALS		122,625.92	2.810	3.753	122,045.94	2.810	4.112	3.753	4.112



October 2, 1997

Martin J. Chávez, Mayor

Victoria Dery, P.E.
Leedshill-Herkenhoff, Inc.
P.O. Box 1217
Albuquerque, NM 87103

RECEIVED
OCT 06 1997
LEEDSHILL - HERKENHOFF, INC.
ALBUQUERQUE

RE: ZAMORA PUMP STATION AND RESERVOIR (E10-D8A). GRADING AND DRAINAGE PLAN FOR SITE DEVELOPMENT FOR BUILDING PERMIT. ENGINEER'S STAMP DATED AUGUST 28, 1997.

Dear Ms. Dery:

Based on the information provided on your September 15, 1997 submittal, the above referenced project is approved for Site Development Plan for Subdivision Permit. Prior to Building Permit approval, please address the following comment:

1. With your most recent submittal, you attached a letter dated September 8, 1995 from Leedshill-Herkenhoff to the City of Albuquerque. The letter stated that Tesuque and Santo Domingo Street were to be completed under SAD 224 and would take approximately 2 years to finish construction. According to the dates, the above referenced street should be at or near completion. If construction is complete, you should take out all reference to the temporary asphalt lined swale and check your proposed grades with as-built grades.

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

Sincerely,

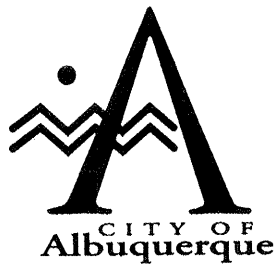
Lisa Ann Manwill, P.E.

Hydrology

c: Andrew Garcia
File

Good for You, Albuquerque!





October 2, 1997

Martin J. Chávez, Mayor

Victoria Dery, P.E.
Leedshill-Herkenhoff, Inc.
P.O. Box 1217
Albuquerque, NM 87103

RE: ZAMORA PUMP STATION AND RESERVOIR (E10-D8A). GRADING AND DRAINAGE PLAN FOR SITE DEVELOPMENT FOR BUILDING PERMIT. ENGINEER'S STAMP DATED AUGUST 28, 1997.

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

Sincerely,

Lisa Ann Manwill, P.E.

Hydrology

c: Andrew Garcia
File

Good for You, Albuquerque!



COA/HYDROLOGY DRAINAGE CALCULATIONS

File: g:\data\projects\zamora\drain.wk1

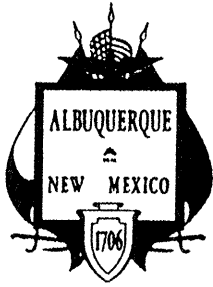
Project: Zamora Well No. 2 Well Equipment, Collector Line & Chlorination Building

Date: 08-Sep-97

Precipitation Zone (Enter 1-4 from Table A-1): 1

Design Storm Event (Enter 2, 10, or 100): 100

Basin #	Treatment	Existing			Proposed			Subtotal	
		Area (SF)	Area (AC)	Qp (CFS)	Area (SF)	Area (AC)	Qp (CFS)	Existing	Proposed
1	A	74,661.00	1.71	2.21	0.00	0.00	0.00	3.21	4.53
	B	0.00	0.00	0.00	83,213.00	1.91	3.88		
	C	13,998.00	0.32	0.92	0.00	0.00	0.00		
	D	1,042.00	0.02	0.09	6,488.00	0.15	0.66		
2	A	8,082.00	0.19	0.25	0.00	0.00	0.00	0.53	0.90
	B	0.00	0.00	0.00	4,192.00	0.10	0.20		
	C	4,464.00	0.10	0.29	5,014.00	0.12	0.34		
	D	0.00	0.00	0.00	3,340.00	0.08	0.35		
3	A	52,454.00	1.20	1.55	0.00	0.00	0.00	2.29	4.34
	B	0.00	0.00	0.00	22,834.00	0.52	1.06		
	C	11,240.00	0.26	0.75	24,066.00	0.55	1.58		
	D	140.00	0.00	0.00	17,018.00	0.39	1.70		
	A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	B	0.00	0.00	0.00	0.00	0.00	0.00		
	C	0.00	0.00	0.00	0.00	0.00	0.00		
	D	0.00	0.00	0.00	0.00	0.00	0.00		
TOTALS		166,081.00	3.80	6.04	166,165.00	3.82	9.77	6.04	9.77



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

July 19, 1995

RECEIVED

JUL 21 1995

Keith Reed
Leedshill-Herkenhoff
P.O. Box 1217
Albuquerque, NM 87103

LEEDSHILL - HERKENHOFF, INC.
ALBUQUERQUE

RE: DRAINAGE PLAN FOR ZAMORA PUMP STATION & RESERVOIR (E10-D8A)
RECEIVED JUNE 19, 1995.

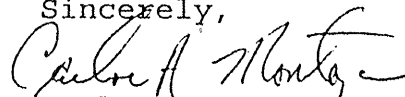
Dear Mr. Reed:

I have reviewed the referenced drainage plan dated June 16, 1995 and forward the following comments:

1. Please indicate the proposed street grades on Santo Domingo St. and Tesuque Drive adjacent to your site.
2. Are these two streets in construction or design? If the streets are not in construction, you may need to submit an interim plan.
3. Show grades at the entrance to the site.
4. Show existing and proposed grades on the west property line. Show grades on both sides of the property line.
5. Show existing grades 20 feet south of the south property line.

If I can be of further assistance, feel free to contact me at 768-2654.

Sincerely,


Carlos A. Montoya, PE
PWD/Hydrology

CAM/dl

c: Andrew Garcia
File



REVISED 9/20/95 (K) (R ER)

TABLE A-9. PEAK DISCHARGE (cfs/acre)

Zone	Treatment			
	100-YR [2-YR, 10-YR]			
	A	B	C	D
1	1.29 [0.00, 0.24]	2.03 [0.03, 0.76]	2.87 [0.47, 1.49]	4.37 [1.69, 2.89]
2	1.56 [0.00, 0.38]	2.28 [0.08, 0.95]	3.14 [0.60, 1.71]	4.70 [1.86, 3.14]
3	1.87 [0.00, 0.58]	2.60 [0.21, 1.19]	3.45 [0.78, 2.00]	5.02 [2.04, 3.39]
4	2.20 [0.05, 0.87]	2.92 [0.38, 1.45]	3.73 [1.00, 2.26]	5.25 [2.17, 3.57]

AREA	TREATMENT	EXISTING		PROPOSED		Q _p , SUBTOTAL	
		AREA (AC)	Q _p (CFS)	AREA (AC)	Q _p (CFS)	EXIST.	PROPOSED
①	A	1.71	2.22	—	—	3.2	4.5
	B	—	—	1.91	3.80		
	C	0.32	0.9	—	—		
	D	0.02	0.1	0.15	0.7		
②	A	0.19	0.2	—	—	0.5	0.8
	B	—	—	0.10	0.2		
	C	0.10	0.3	0.12	0.3		
	D	—	—	0.08	0.3		
③	A	1.28	1.60	—	—	2.44	4.30
	B	—	—	0.52	1.10		
	C	0.26	0.80	0.27	0.6		
	D	0.01	0.04	0.58	1.7		
④	A	0.32	0.4	—	—	0.5	0.7
	B	—	—	0.31	0.6		
	C	0.03	0.1	—	—		
	D	—	—	0.03	0.1		
TOTALS		3.82	6.14	3.82	9.6	6.14	9.6

INLET CALC

$$Q_i = 0.8 \text{ cfs (PROPOSED CONDITION, BASIN 2 } \Rightarrow \text{ SEE ATTACHED)}$$

INLET AS WEIR

$$Q = C_w P d^{1.5}$$

where $Q_i = \text{discharge, cfs} = 0.8 \text{ cfs}$

$$C_w = 3.0$$

$P = \text{Perimeter of grate, ft.}$

$d = \text{depth of water, ft.}$

INLET AS ORIFICE

$$Q_i = C_o A (2gd)^{0.5}$$

where $Q_i = \text{discharge, cfs} = 0.8 \text{ cfs}$

$$C_o = 0.67$$

$A = \text{clear open area of grate, sf}$

$$g = 32.2 \text{ fps}$$

COA INLET

USE STD DWG 2220 (ATTACHED)

SINGLE INLET

$$\text{GRATE} = 40'' \times 25''$$

$$P = \text{PERIMETER} = 2 \left(\frac{40 + 25}{12} \right) = 10.83 \text{ FT.}$$

$$A = \text{AREA} = \frac{40'' \times 25''}{144 \text{ in}^2/\text{sf}} = 6.94 \text{ SF}$$

SUBTRACT AREA OF BARS:

$$13 \times \frac{1}{2}'' \times 40'' = 1.81 \text{ SF}$$

$$9 \times \frac{1}{2}'' \times 25'' = 0.78 \text{ SF}$$

$$\Sigma = 2.59 \text{ SF}$$

$$A_T = 6.94 - 2.59 = 4.35 \text{ SF}$$

AS WEIR:

$$Q = C_w P d^{1.5}$$

$$0.8 = 3 (10.83) d^{1.5}$$

$$d = 0.085 \text{ ft.}$$

AS ORIFICE:

$$Q = C_o A (2gd)^{0.5}$$

$$0.8 = 0.67 (4.35) (2(32.2) d)^{0.5}$$

$$d = 0.0012 \text{ ft.}$$

⊛ ACTS AS WEIR w/ $d = 0.085 \text{ ft.}$ USE
SINGLE
INLET



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

October 9, 1995

Robert E. Roughton
Leedshill-Herkenhoff
P.O. Box 1217
Albuquerque, NM 87103

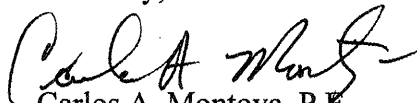
RE: DRAINAGE PLAN FOR ZAMORA PUMP STATION & RESERVOIR (E10-D8A)
RECEIVED 9/21/95.

Dear Mr. Roughton:

The above referenced plan dated 9/8/95 is approved for Site development for building permit. I will sign the construction drawings as soon as they are made available to me. Certification of the project is required upon completion of the project.

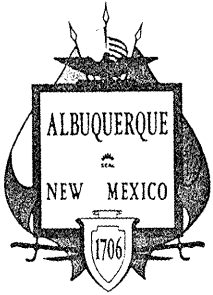
If you have any questions, please call me at 768-2654.

Sincerely,


Carlos A. Montoya, P.E.
PWD/Hydrology Division

CAM/dl

c: Andrew Garcia
File



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

September 24, 1992

Robert E. Roughton
Leedshill-Herkenhoff, Inc.
P.O. Box 1217
Albuquerque, NM 87103

RE: REVISED DRAINAGE PLAN FOR ZAMORA WELL NO.1 WELL EQUIPMENT &
TRANSMISSION LINE (E10/D8A) PROJECT NO. 4395.91 REVISION DATED 9/92.

Dear Mr. Roughton:

Based on the information provided on your September 18, 1992 resubmittal, the above referenced site is approved for Building Permit & Work Order.

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

Also, when the construction of the booster station and reservoir project is implemented, a revised drainage plan will be required. At that time, the site paving run-off may be connected to the wash discharge line.

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

Sincerely,

Bernie J. Montoya, CE
Engineering Assistant

BJM/d1/WPHYD/3631

xc: Alan Martinez
File

PUBLIC WORKS DEPARTMENT

HE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103



October 5, 1990

Dan Grochowski, P.E.
Bohannon-Huston, Inc.
7500 Jefferson Street, NE
Albuquerque, New Mexico 87109

RE: CONCEPTUAL GRADING & DRAINAGE PLAN FOR VOLCANO 1W RESERVOIR,
(E-10/D8A), ENGINEERS STAMP DATED SEPTEMBER 20, 1990

Dear Mr. Grochowski:

Based on the information provided on the referenced submittal received September 21, 1990, the plan is approved by Hydrology Development for Site Development Plan approval by EPC. Please be advised that prior to Site Development Plan approval by DRB, an infrastructure list or a letter of commitment will be required by the City Agency representing the project.

A detailed drainage plan per the D.P.M. checklist will be required by Hydrology prior to Building Permit or Work Order Approval. If you should have any questions, please do not hesitate to call me at 768-2650.

Cordially,

Gilbert Aldaz, P.E. & L.S.
Civil Engineer/Hydrology

GA
wp+2202

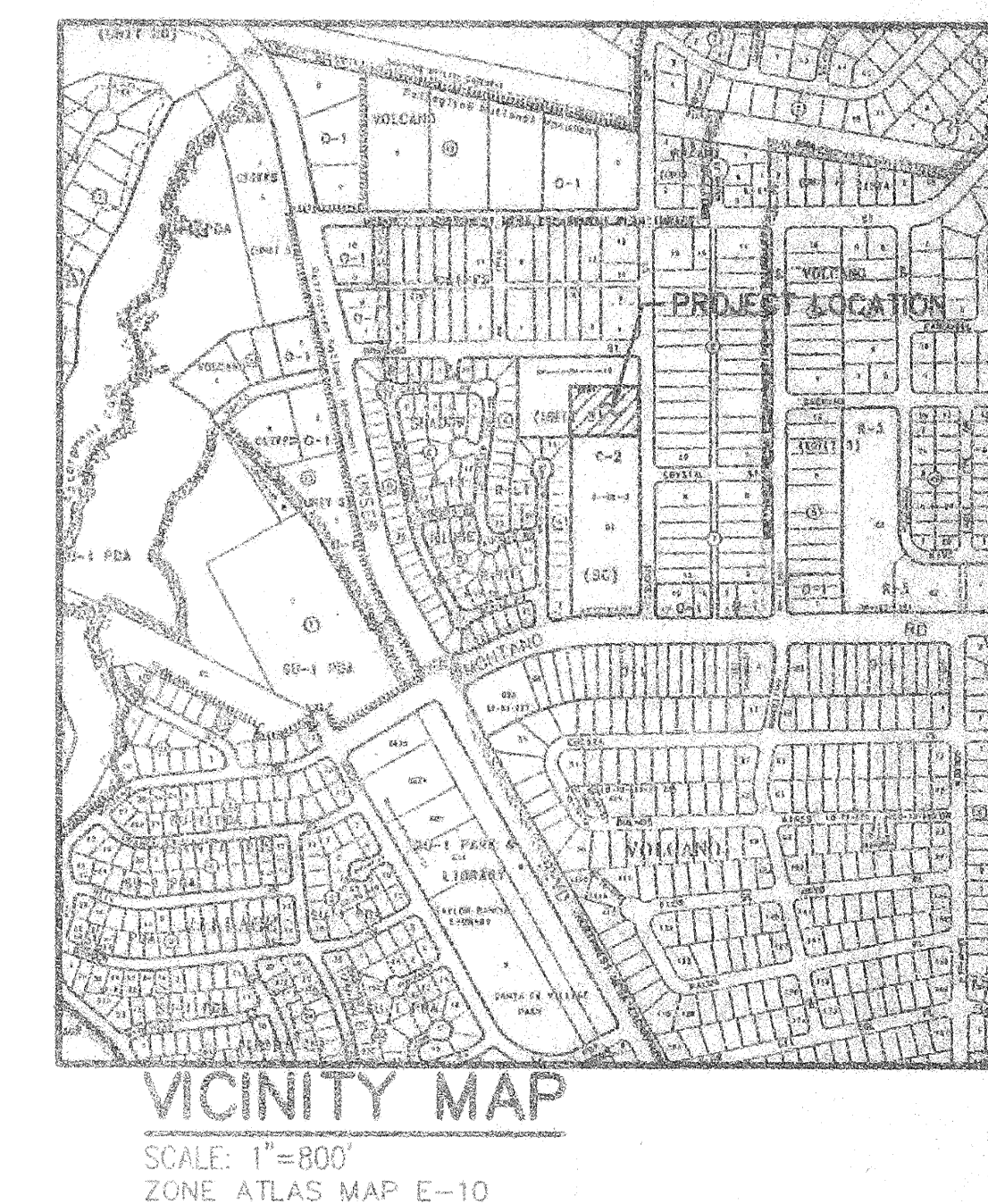
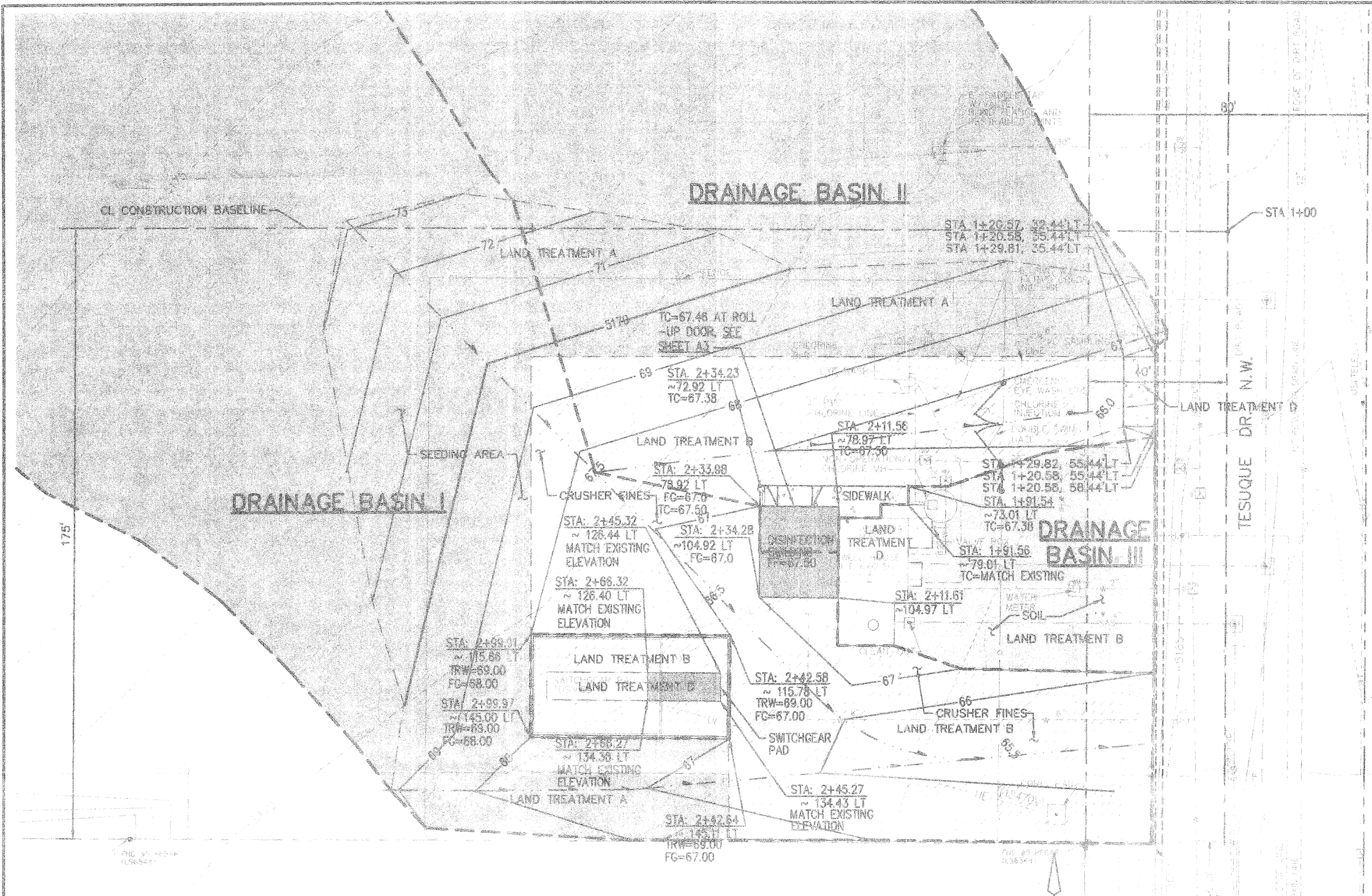
PUBLIC WORKS DEPARTMENT

Walter H. Nickerson, Jr., P.E.
Assistant Director Public Works

ENGINEERING GROUP

Telephone (505) 768-2500

AN EQUAL OPPORTUNITY EMPLOYER



THE FOLLOWING CONSIDERATIONS AND DESIGN INTENT ARE INCORPORATED IN THIS DRAINAGE PLAN:

THE SITE IS DIVIDED INTO THREE BASINS (BASINS I, II AND III) WHICH DRAIN OVERLAND TOWARD TESUQUE DRIVE.

BASIN I IS COMPRISED OF FOUR AREAS: 1) 65 TO 75 FEET WEST OF THE DISINFECTION BUILDING, A SEEDED AREA SLOPING EASTWARD AT 7% GRADE; 2) WEST OF THE DISINFECTION BUILDING, VEHICLE ACCESS AREA COVERED WITH CRUSHER FINES; 3) SOUTHERN HALF OF THE ROOF AREA OF THE DISINFECTION BUILDING; AND 4) UNDISTURBED AREA EXTENDING NORTHWEST FROM SEEDED AREA TO SANTO DOMINGO STREET.

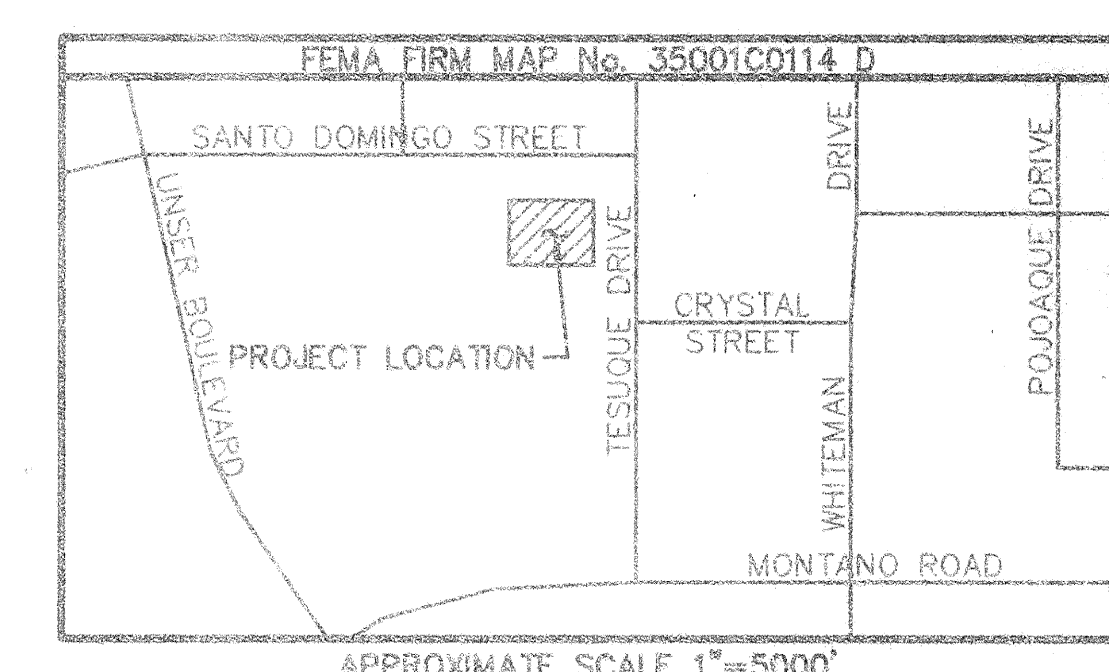
BASIN II IS COMPRISED OF FOUR AREAS: 1) 40 FEET NORTH OF THE DISINFECTION BUILDING, A SEEDED AREA SLOPING SOUTHEASTWARD AT A 7% GRADE; 2) NORTH OF THE DISINFECTION BUILDING, VEHICLE ACCESS AREA COVERED WITH CRUSHER FINES; 3) THE NORTHERN HALF OF THE ROOF AREA OF THE DISINFECTION BUILDING AND SIDEWALK; AND 4) UNDISTURBED AREA EXTENDING NORTHWEST FROM SEEDED AREA TO SANTO DOMINGO STREET.

BASIN III IS COMPRISED OF TWO AREAS: 1) THE ROOF AREA OF THE EXISTING WELL HOUSE; AND 2) THE FLAT, SPARSELY VEGETATED AREA EAST OF THE WELL HOUSE.

WITH THE EXCEPTION OF THE SIDEWALK NORTH OF THE WELL HOUSE AND DISINFECTION BUILDING, THERE WILL BE NO PAVED AREAS ON SITE. A RETAINING WALL/HEADER CURB INSTALLED AROUND THE SWITCHGEAR PAD WILL PREVENT ONSITE RUNOFF FROM ENCRoACHING THE PAD.

SITE GRADING AND DRAINAGE PLAN
SCALE: 1"=20'

LEGAL DESCRIPTION
VOLCANO CLIFFS SUBDIVISION, UNIT 3 TRACT B-1-B



LEGEND

- EXISTING**
- Sanitary Sewer Manhole
 - Storm Drain Manhole
 - Water Valve
 - Butterfly Valve
 - Water Meter
 - Fire Hydrant
 - Underground Telephone Line
 - Underground Telephone Line
 - Building / Concrete Pad
- PROPOSED**
- TC=12.50 TOP OF CURB OR CONCRETE / FLOWLINE ELEVATION
 - FL=12.00 TRW=12.00 TOP OF RETAINING WALL ELEVATION
 - FG=12.00 FINISH GRADE ELEVATION
 - Flow Direction
 - Proposed 1' Interval Contour
 - Drainage Basin Boundary
 - Grade Break
 - Concrete
 - Building / Switchgear Pad

DESCRIPTION	DRAINAGE CALCULATIONS					
	EXISTING DRAINAGE BASINS	PROPOSED DRAINAGE BASINS			TOTAL	
LAND TREATMENT A (NATIVE)	AREA, AC.	2.700	1.350	0.960	0.00	2.310
	Q, cfs (AREA x 1.29)	3.483	1.742	1.258	0.00	2.980
LAND TREATMENT B (PARK)	AREA, AC.	0.090	0.280	0.130	0.090	0.450
	Q, cfs (AREA x 2.03)	0.183	0.467	0.264	0.183	0.914
LAND TREATMENT C (COMPACTED SOIL)	AREA, AC.	0.00	0.00	0.00	0.00	0.00
	Q, cfs (AREA x 2.87)	0.00	0.00	0.00	0.00	0.00
LAND TREATMENT D (ROOF & PAVEMENT)	AREA, AC.	0.020	0.010	0.020	0.020	0.050
	Q, cfs (AREA x 4.37)	0.087	0.044	0.087	0.087	0.216
TOTAL	AREA, AC.	2.870	1.540	1.110	0.110	3.910
	Q, cfs	3.753	2.253	1.589	0.270	4.112

NOTICE TO CONTRACTOR

- AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH "CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION".
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

LEEDSHILL-HERKENHOFF, INC.
an ASQC Company
500 Copper Avenue NW - Suite 500
P.O. Box 1217
Albuquerque, NM 87103
(505)247-0294

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ZAMORA WELL FIELD
DISINFECTION FACILITY
SITE GRADING AND DRAINAGE PLAN

Design Review Committee City Engineer Approval

NOV 23 1998
HYDROLOGY SECTION

City Project No. 4912.93 Zone Map No. E-10 Sheet C3 of 5

AS BUILT INFORMATION

CONTRACTOR: _____ DATE: _____

WORK STARTED BY: _____ DATE: _____

WORK COMPLETED BY: _____ DATE: _____

FIELD CHECKED BY: _____ DATE: _____

REWORKED BY: _____ DATE: _____

RECORDED BY: _____ DATE: _____

BENCH MARKS

3-510'S LOCATED APPROXIMATELY 45 FEET EAST / NORTHEAST OF THE INTERSECTION OF RIMROCK ROAD NW AND MARIGOLD DRIVE NW IN VOLCANO CLIFFS ADDITION. ELEVATION = 5316.12

SURVEY INFORMATION

FIELD NOTES BY: _____ DATE: _____

NO. _____

ENGINEER'S SEAL

ALBUQUERQUE, N.M. REGISTERED PROFESSIONAL ENGINEER
NOV 20 1998
Victoria Alvarado

NO. _____ DATE: _____

REMARKS: _____

REVISIONS: _____

DESIGNED BY: _____ DATE: 11/98

DRAWN BY: _____ DATE: 11/98

CHECKED BY: _____ DATE: 11/98