PROJECT TITLE: FUELING STATION SOLID WASTE ZONE ATLAS/DRNG. FILE #: G-15 Z29B

DRB #: N/A EPC #: N/A WORK ORDER #: N/A D29B G15

LEGAL DESCRIPTION:

CITY ADDRESS: 4600 EDITH NE ALBUQUERQUE, NM 87103

ENGINEERING FIRM: SMITH ENGINEERING CONTACT: WAYNE YEVOLI

ADDRESS: 6400 UPTOWN BLVD PHONE: 884-0700

COA OWNER: SOLID WASTE MANAGEMENT DEPT CONTACT: JACK SCHERER

ADDRESS: 4600 EDITH NE PHONE: 761-8110

ARCHITECT: CHARLES NOLAN ARCHITECTS CONTACT: CHARLES NOLAN

ADDRESS: LAS CRUCES, NM PHONE: 505 646-7873

SURVEYOR: CONTACT:

ADDRESS: PHONE:

CONTRACTOR: CONTACT:

ADDRESS: PHONE:

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT
X DRAINAGE PLAN
___ CONCEPTUAL GRADING & DRAINAGE PLAN
___ GRADING PLAN
___ EROSION CONTROL PLAN
___ ENGINEER'S CERTIFICATION
___ OTHER

PRE-DESIGN MEETING:

___ YES
X 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
X BUILDING PERMIT APPROVAL
___ CERTIFICATE OF OCCUPANCY APPROVAL
___ GRADING PERMIT APPROVAL
___ PAVING PERMIT APPROVAL
___ S.A.D. DRAINAGE REPORT
___ DRAINAGE REQUIREMENTS
___ SUBDIVISION CERTIFICATION
___ OTHER (SPECIFY)

DATE SUBMITTED: October 16, 1997

BY: Jack Scherer

RECEIVED
OCT 16 1997
HYDROLOGY SECTION

CITY OF
Albuquerque

Martin J. Chávez, Mayor

November 7,1997

Patrick J. Conley
Smith Engineering
6400 Uptown Blvd. Suite 500E
Albuquerque, New Mexico 87110

RE: DRAINAGE PLAN FOR SOLID WASTE MANAGEMENT DIVISION FUELING STATION (G15-D29B) SHEET 2/16 ENGINEER'S STAMP DATED 10/8/97

Dear Mr. Conley:

Based on the information provided on your October 16,1997, 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, Engineer Certification per the DPM checklist will be required.

If I can be of further assistance, please feel free to contact me at 924-3986.

C: Andrew Garcia
File

Sincerely

Bernie J. Montoya CE
Associate Engineer

CITY OF ALBUQUERQUE

ALBUQUERQUE, NEW MEXICO

INTER-OFFICE CORRESPONDENCE March 23, 1993 REF. NO. 93128AP

TO: Bernie J. Montoya, Civil Engineer, Public Works Department

FROM: Anthony Pino, Civil Engineer, SWMD A.P.

SUBJECT: **POND CAPACITY AT THE SOLID WASTE MANAGEMENT DEPARTMENT SITE**

As requested, the Solid Waste Management Department has surveyed Pond 1, Pond 2 and Pond 3 and submitted this data to Suzanne Uhlmann Balogh (Chavez-Grieves Inc).

Based on the required volume less the existing volume calculated it appears that approximately 750 cy of volume is needed to comply with the capacity required for the 100 year six hour storm.

In July or August 1993 these ponds will be excavated to the original as-built grades and lined with an HDPE 40 mil liner. During this process it is anticipated that a minimum of 750cy of soil will be removed from the ponds prior to lining. At this time we will be in compliance with the required capacity.

If I can be of further assistance, please contact me at 761-8121.

CITY OF ALBUQUERQUE

ALBUQUERQUE, NEW MEXICO

INTER-OFFICE CORRESPONDENCE March 23, 1993 REF. NO. 93128AP

TO: Bernie J. Montoya, Civil Engineer, Public Works Department

FROM: Anthony Pino, Civil Engineer, SWMD A.P.

SUBJECT: **POND CAPACITY AT THE SOLID WASTE MANAGEMENT DEPARTMENT SITE**

As requested, the Solid Waste Management Department has surveyed Pond 1, Pond 2 and Pond 3 and submitted this data to Suzanne Uhlmann Balogh (Chavez-Grieves Inc).

Based on the required volume less the existing volume calculated it appears that approximately 750 cy of volume is needed to comply with the capacity required for the 100 year six hour storm.

In July or August 1993 these ponds will be excavated to the original as-built grades and lined with an HDPE 40 mil liner. During this process it is anticipated that a minimum of 750cy of soil will be removed from the ponds prior to lining. At this time we will be in compliance with the required capacity.

If I can be of further assistance, please contact me at 761-8121.

CHAVEZ-GRIEVES CONSULTING ENGINEERS, INC.

4600 MONTGOMERY N.E., BUILDING C, #101
ALBUQUERQUE, NEW MEXICO 87109
PHONE: (505) 881-7376 FAX: (505) 883-7119

LETTER OF TRANSMITTAL

TO: Bernie Montoya
Hydrology

DATE: 3-26-93

JOB #

RE: COA Fueling Facility

WE ARE SENDING YOU ✓ ATTACHED ___ UNDER SEPARATE COVER, THE FOLLOWING ITEMS:

___ SHOP DRAWINGS	___ PLANS	___ SPECIFICATIONS	___ DISKETTE
___ CHANGE ORDER	✓ PRINTS	___ CALCULATIONS	___ _____
___ COPY OF LETTER	___ SAMPLES	___ REPORT	___ _____

COPIES	DATE	NO.	DESCRIPTION
3-25-93 ↔	1		Revised Site Drainage Plan

THESE ARE TRANSMITTED AS CHECKED BELOW:

✓ FOR YOUR USE
✓ AS REQUESTED
___ PLEASE CORRECT AND RESUBMIT
___ RESUBMITTAL IS NOT REQUIRED
CORRECTIONS, IF ANY, ARE NOTED

___ FOR REVIEW & COMMENT
___ RETURNED AFTER LOAN TO US
___ SUBMIT ___ COPIES FOR DISTRIBUTION
___ RETURN 1 CORRECTED PRINTS

REMARKS:

COPIES TO:

SIGNED: Suzi Balogh

IF ENCLOSURES ARE NOT AS NOTED, KINDLY NOTIFY US AT ONCE.

REV.1/92

DRAINAGE INFORMATION

PROJECT TITLE SOLID WASTE FUELING STATION ZONE ATLAS/DRNG. FILE #: G-15

LEGAL DESCRIPTION: A TRACT OF LAND WITHIN THE CITY OF ALBUQUERQUE SOLID WASTE FACILITY

CITY ADDRESS: 4600 EDITH BOULEVARD NE

ENGINEERING FIRM: CHAVEZ-GRIEVES CONS. ENG. CONTACT: SUZI BALOGH

ADDRESS: 4600-C MONTGOMERY NE PHONE: 881-7376

OWNER: CITY OF ALBUQUERQUE CONTACT: JOE CHAVEZ

ADDRESS: P.O. BOX 1293 PHONE: 768-2000

ARCHITECT: NOLAN & ASSOCIATES CONTACT: CHARLES NOLAN

ADDRESS: P.O. BOX 1788, ALAMOGORDO PHONE: 437-1405

SURVEYOR: NA CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: NA CONTACT: _____

ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT

*X DRAINAGE PLAN

____ CONCEPTUAL GRADING & DRAINAGE PLAN

____ GRADING PLAN

____ EROSION CONTROL PLAN

____ ENGINEER'S CERTIFICATION

____ OTHER

PRE-DESIGN MEETING:

____ YES

X 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. PRMT. APPROVAL

____ SECTOR PLAN APPROVAL

____ FINAL PLAT APPROVAL

____ FOUNDATION PERMIT APPROVAL

X BUILDING PERMIT APPROVAL

____ CERTIFICATE OF OCCUPANCY APPROVAL

____ GRADING PERMIT APPROVAL

____ PAVING PERMIT APPROVAL

____ S.A.D. DRAINAGE REPORT

____ DRAINAGE REQUIREMENTS

____ OTHER _____ (SPECIFY)

DATE SUBMITTED: 3/24/93

BY: Suzi Balogh

* REVISION TO "DRAINAGE REPORT FOR THE CITY OF ALBUQUERQUE SOLID WASTE MANAGEMENT FACILITY (OLD N.C. RIBBLE SITE) EDITH AND COMANCHE/GRIEGOS, ALBUQUERQUE, NEW MEXICO" PREPARED BY ADVANCED SCIENCES, INC., SEPTEMBER 1987 AND REVISED OCTOBER 3, 1987.

DRAINAGE INFORMATION

PROJECT TITLE SOLID WASTE FUELING STATION ZONE ATLAS/DRNG. FILE #: G-15 / D296

LEGAL DESCRIPTION: A TRACT OF LAND WITHIN THE CITY OF ALBUQUERQUE SOLID WASTE FACILITY

CITY ADDRESS: 4600 EDITH BOULEVARD NE

ENGINEERING FIRM: CHAVEZ-GRIEVES CONS. ENG. CONTACT: SUZI BALOGH

ADDRESS: 4600-C MONTGOMERY NE PHONE: 881-7376

OWNER: CITY OF ALBUQUERQUE CONTACT: JOE CHAVEZ

ADDRESS: P.O. BOX 1293 PHONE: 768-2000

ARCHITECT: NOLAN & ASSOCIATES CONTACT: CHARLES NOLAN

ADDRESS: P.O. BOX 1788, ALAMOGORDO PHONE: 437-1405

SURVEYOR: NA CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: NA CONTACT: _____

ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT

*X 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. PRMT. APPROVAL

____ SECTOR PLAN APPROVAL

____ FINAL PLAT APPROVAL

____ FOUNDATION PERMIT APPROVAL

X BUILDING PERMIT APPROVAL

PRE-DESIGN MEETING:

____ YES

X NO

____ COPY PROVIDED

RECEIVED
MAR 29 1993
HYDROLOGY DIVISION

____ CERTIFICATE OF OCCUPANCY APPROVAL

____ GRADING PERMIT APPROVAL

____ PAVING PERMIT APPROVAL

____ S.A.D. DRAINAGE REPORT

____ DRAINAGE REQUIREMENTS

____ OTHER _____ (SPECIFY)

DATE SUBMITTED: 3/24/93

BY: Suzi Balogh

* REVISION TO "DRAINAGE REPORT FOR THE CITY OF ALBUQUERQUE SOLID WASTE MANAGEMENT FACILITY (OLD N.C. RIBBLE SITE) EDITH AND COMANCHE/GRIEGOS, ALBUQUERQUE, NEW MEXICO" PREPARED BY ADVANCED SCIENCES, INC., SEPTEMBER 1987 AND REVISED OCTOBER 3, 1987.

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 30, 1993

David Grieves
Chavez-Grieves
4600-C Montgomery Blvd. NE
Albuquerque, NM 87109

RE: REVISED DRAINAGE PLAN FOR SOLID WASTE FUELING STATION (G15-D29B)
REVISION DATED 3/26/93.

Dear Mr. Grieves:

Based on the information provided on your March 29, 1993 resubmittal, the above referenced site is approved for Building Permit and Work Order.

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

Also, prior to Certificate of Occupancy release, Engineer Certification per the D.P.M. checklist will be required for review. The Certification will need to include the as-built pond volume information.

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

Sincerely,

Bernie J. Montoya

Bernie J. Montoya, CE
Engineering Assistant

BJM/dl/WPHYD/7439

xc: Alan Martinez
Gene Romo
File

DRAINAGE INFORMATION

PROJECT TITLE SOLID WASTE FUELING STATION, CITY OF ALBUQUERQUE G15/D296

ZONE ATLAS/DRNG. FILE #: G-15

LEGAL DESCRIPTION: A CERTAIN TRACT OF LAND WITHIN THE CITY OF ALBUQUERQUE SOLID WASTE FACILITY

CITY ADDRESS: 4600 EDITH BOULEVARD NE

ENGINEERING FIRM: CHAVEZ-GRIEVES CONS. ENG. CONTACT: SUZI BALOGH

ADDRESS: 5639 JEFFERSON NE, ALBQ., NM PHONE: 344-4080

OWNER: CITY OF ALBUQUERQUE CONTACT: JOE CHAVEZ

ADDRESS: P.O. BOX 1293 PHONE: 768-2000

ARCHITECT: NOLAN & ASSOCIATES CONTACT: CHARLES NOLAN

ADDRESS: P.O. BOX 1788, ALAMOGORDO PHONE: 437-1405

SURVEYOR: NA CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: NA CONTACT: _____

ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT

_X_ DRAINAGE PLAN (REVISION)

____ 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. PRMT. APPROVAL

____ SECTOR PLAN APPROVAL

____ FINAL PLAT APPROVAL

_X_ FOUNDATION PERMIT APPROVAL

_X_ BUILDING PERMIT APPROVAL

____ CERTIFICATE OF OCCUPANCY APPROVAL

_X_ GRADING PERMIT APPROVAL

____ PAVING PERMIT APPROVAL

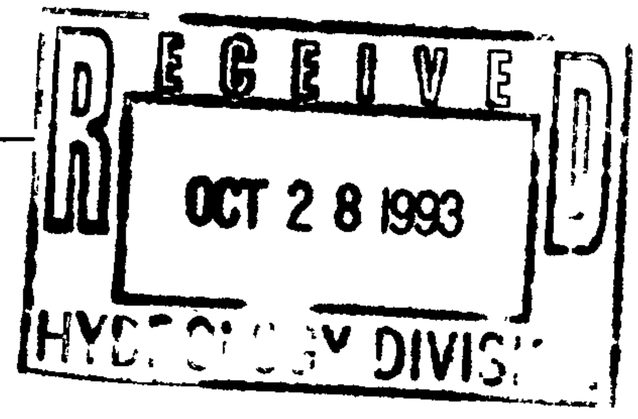
____ S.A.D. DRAINAGE REPORT

____ DRAINAGE REQUIREMENTS

____ OTHER _____ (SPECIFY)

DATE SUBMITTED: 10/27/93

BY: Suzi Balogh



PLANS WERE RE-DESIGNED!

FIGURE 6

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

~~9-8-95~~
(DATE)

PROJECT NO: 4350.90
ZONE ATLAS: G-15

D-29&29B

PROJECT NAME: SOLID WASTE MGT. - FUELING FAC.
LOCATION: (EDITH & GRIEGOS)

TYPE OF PROJECT: AHBA ____ CIP ✓ PWC ____ SAD ____ ALL PRIVATE ____

Contact Person: ANTHONY PINO Phone: 761-8121
Firm: C.O.A. - SOLIDWASTE DEPT.

X Scheduled with the D.R.C. on 9-15-95 at 9:00 A.M. in Conf. Room 302
___ No DRC Meeting Scheduled. Please return any comments by: _____

The Project Is Scheduled For:
/ / Design Report Review / / Final Plan Review (Approved Infra. List)
/ / Pre-Design Meeting / / Signoff of Plans (Mylars Required)
X Preliminary Plan Review / / _____

The Project Relates To:
/ / Water / / San. Sewer / / Paving / / Storm Drainage X FUELING FACILITY

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/or are invited to attend. It will be the Project Managers responsiblity to notify consulting engineering firms of date and time of scheduled meetings.

S/D/	DRC Chairman	Project Review Section	All
/M/	Traffic Repres	Transportation Development	All
/W/	Water Repres.	Utility Design	All
S/D/	Hydro Repres.	Hydrology	All
S/D/	Const. Repres.	Construction	All
/ /	Bill Coleman	Traffic Operations	
/ /	Dick Salas	Street Maintenance	
/ /	Sergio Miranda	Water (Shutoff Plan)	ALL WATER SHUTOFF
/ /	Diane Scena	Parks & Recreation	ALL LANDSCAPING
/ /		Utility Coordinator	ALL PWC & CIP
/ /	Jim Hamel	Transit Department	CIP/Memo
/ /	Rick Roybal	Construction Coordinator	CIP/Memo
/ /	Jim Fink	Line Maintenance	CIP-SAS/Memo
S/D/	Joe Dellalonga	City Architect	ARCHITECTURAL
/ /	Lee Lunsford	SAD Engineer	SAD/Memo
/ /	Joe Luehring	Transportation Develop.	CIP/Memo
/ /	Roger Green	Utility Design	CIP/WATER & SAS
S/D/	Mike Minturn	General Services Dept.	BUILDINGS
S/D/	Greg Smith	PWD/Legal	DWGS & SPECS
/W/	Richard Sertich	Planning Department	CIP/Memos
/W/	CIP Manager	CIP	CIP/Memos
/ /	_____	_____	_____
/ /	_____	_____	_____

LOREN

RG/tm (WP+123400) Rev. 11/05/91

CITY OF ALBUQUERQUE

ALBUQUERQUE, NEW MEXICO

Sept 15 1995
DATE

CITY ENGINEERS PROJECT NO. 4350.90

STANDARD REVIEW COMMENT SHEET

SHEET 1 OF ____

TO: Solid Waste Fueling Island
(USER DEPT./DIVISION)

FROM: Loran Klein, Hydrology
(REVIEWER/REVIEW DEPT./DIVISION)

PROJECT: _____

PROJECT DESCRIPTION TYPE: [ ]Report/Study, [X]Plans, [ ]Specs, [ ] Est.
STATUS: [X]Prel, [ ]Final, [ ]Check

FOR REVIEWER DEPT/DIVISION			FOR USER DEPT.	
PAGE NO.	COM NO.	COMMENT	A/D	REMARK
1		Grade cont. pavement under canopy to drain to trapped inlet in center and connect to existing sewer. See Sht. SD-3		
2		Show locations of roof drains and discharge. Many roof drains to location that will drain away from fueling pumps.		
3		Fluid Storage Bldg. scale on sheets SD1 & 2 not correct. ?		

CITY OF ALBUQUERQUE

ALBUQUERQUE, NEW MEXICO

Sept 15 1995
DATE

CITY ENGINEERS PROJECT NO. 4350.90

STANDARD REVIEW COMMENT SHEET SHEET 1 OF

TO: Solid Waste Fueling Island
(USER DEPT./DIVISION)

FROM: Loren Morris Hydrology
(REVIEWER/REVIEW DEPT./DIVISION)

PROJECT:

PROJECT DESCRIPTION TYPE: [ ]Report/Study, [X]Plans, [ ]Specs, [ ] Est.
STATUS: [X]Prel, [ ]Final, [ ]Check

FOR REVIEWER DEPT/DIVISION			FOR USER DEPT.	
PAGE NO.	COM NO.	COMMENT	A/D	REMARK
1		Grade cont. pavement under canopy to drain to trapped inlet in center and connect to existing sewer. See Sht. SD-3		
2		Show location of roof drains and discharge. Canopy roof drains to location that will drain away from fueling pumps.		
3		Fluid Storage Bldg. scale on sheets SD1 & 2 not correct.		

CHAVEZ-GRIEVES CONSULTING ENGINEERS, INC.

5639 JEFFERSON NE
ALBUQUERQUE, NEW MEXICO 87109
PHONE: (505) 344·4080 · FAX: (505) 343·8759

LETTER OF TRANSMITTAL

TO: Bernie Montoya
COA Hydrology

DATE: 10·27·93

JOB #

RE: COA Fueling Facility
Resubmitted

WE ARE SENDING YOU ✓ **ATTACHED** ___ **UNDER SEPARATE COVER, THE FOLLOWING ITEMS:**

___ SHOP DRAWINGS	___ PLANS	___ SPECIFICATIONS	___ DISKETTE
___ CHANGE ORDER	✓ PRINTS	___ CALCULATIONS	___ ___
___ COPY OF LETTER	___ SAMPLES	___ REPORT	___ ___

COPIES	DATE	NO.	DESCRIPTION
1	10·27·93		COA Fueling Facility Drainage Plan

THESE ARE TRANSMITTED AS CHECKED BELOW:

✓ FOR YOUR USE	___ FOR REVIEW & COMMENT
___ AS REQUESTED	___ RETURNED AFTER LOAN TO US
___ PLEASE CORRECT AND RESUBMIT	___ SUBMIT ___ COPIES FOR DISTRIBUTION
___ RESUBMITTAL IS NOT REQUIRED	___ RETURN ___ CORRECTED PRINTS
CORRECTIONS, IF ANY, ARE NOTED	___ ___

REMARKS: Bernie - Please advise me if you have any questions. The site layout changed but the drainage design remained the same (except the developed Qs, Vols changed slightly.)

RECEIVED
OCT 28 1993
HYDROLOGY DIVISION

COPIES TO: Charles Nolan

SIGNED: Suzi Barger

IF ENCLOSURES ARE NOT AS NOTED, KINDLY NOTIFY US AT ONCE.

REV.1/92

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

October 29, 1993

Suzanne Balogh
Chavez-Grieves Engineers
5639 Jefferson NE
Albuquerque, NM 87109

RE: REVISED DRAINAGE PLAN FOR SOLID WASTE FUELING STATION (G-15/D29B)
REVISION DATED 10/27/93

Dear Ms. Balogh:

Based on the information provided on your October 28, 1993 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, Engineer Certification per the D.P.M. checklist will be required for review. The Certification will need to include the as-built pond volume information.

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

Sincerely,

Bernie J. Montoya

Bernie J. Montoya, CE
Engineer Associate

BJM/ses/WPHYD8072

xc: Alan Martinez
File

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

February 4, 1993

Suzanne Uhlmann Balogh
Chavez-Grieves, Inc.
4600-C Montgomery blvd. NE
Albuquerque, NM 87109

RE: REVISED DRAINAGE PLAN FOR SOLID WASTE FUELING STATION (G15-D29B)
ENGINEER'S STAMP DATED 1/28/93.

Dear Ms. Balogh:

Based on the information provided on your February 1, 1993 resubmittal, the following concerns must be addressed prior to final approval:

1. I need as-built information on all the ponds. Pond 1, Pond 2, Pond 3, and the temporary sedimentation pond. I am allowing that the 100-year six hour storm be kept as the basis for pond design. I do need as-built pond capacities to determine if the 6 hour pond capacity does exist or if the ponds will need to be reworked further than just cosmetic.

2. The final discharge point from the proposed development eventually will enter into the existing ponds. Therefore, it is a part of the existing system and that is why I need the pond information.

3. Please be advised that any further development within the site will require an updated Master Plan regardless of what is shown on the 1987 plans or any other plans on file.

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

Sincerely,

Bernie J. Montoya

Bernie J. Montoya, CE
Engineering Assistant

BJM/dl/WPHYD/7439

xc: Gene Romo
File

PUBLIC WORKS DEPARTMENT

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

ENGINEERING GROUP

Telephone (505) 768-2500

DRAINAGE INFORMATION

PROJECT TITLE SOLID WASTE FUELING STATION ZONE ATLAS/DRNG. FILE #: G-15/D29B

LEGAL DESCRIPTION: A TRACT OF LAND WITHIN THE CITY OF ALBUQUERQUE SOLID WASTE FACILITY

CITY ADDRESS: 4600 EDITH BOULEVARD NE

ENGINEERING FIRM: CHAVEZ-GRIEVES CONS. ENG. CONTACT: SUZI BALOGH

ADDRESS: 4600-C MONTGOMERY NE PHONE: 881-7376

OWNER: CITY OF ALBUQUERQUE CONTACT: JOE CHAVEZ

ADDRESS: P.O. BOX 1293 PHONE: 768-2000

ARCHITECT: NOLAN & ASSOCIATES CONTACT: CHARLES NOLAN

ADDRESS: P.O. BOX 1788, ALAMOGORDO PHONE: 437-1405

SURVEYOR: NA CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: NA CONTACT: _____

ADDRESS: _____ PHONE: _____

RECEIVED
FEB - 1 1993
HYDROLOGY DIVISION

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT

*X DRAINAGE PLAN

____ CONCEPTUAL GRADING & DRAINAGE PLAN

____ GRADING PLAN

____ EROSION CONTROL PLAN

____ ENGINEER'S CERTIFICATION

____ OTHER

PRE-DESIGN MEETING:

____ YES

X 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. PRMT. APPROVAL

____ SECTOR PLAN APPROVAL

____ FINAL PLAT APPROVAL

____ FOUNDATION PERMIT APPROVAL

X BUILDING PERMIT APPROVAL

____ CERTIFICATE OF OCCUPANCY APPROVAL

____ GRADING PERMIT APPROVAL

____ PAVING PERMIT APPROVAL

____ S.A.D. DRAINAGE REPORT

____ DRAINAGE REQUIREMENTS

____ OTHER _____ (SPECIFY)

DATE SUBMITTED: 2/1/93

BY: Suzi Balogh

* REVISION TO "DRAINAGE REPORT FOR THE CITY OF ALBUQUERQUE SOLID WASTE MANAGEMENT FACILITY (OLD N.C. RIBBLE SITE) EDITH AND COMANCHE/GRIEGOS, ALBUQUERQUE, NEW MEXICO" PREPARED BY ADVANCED SCIENCES, INC., SEPTEMBER 1987 AND REVISED OCTOBER 3, 1987.

Job: COA Fueling Facility — Sheet No. 1 of 4
Subject: Inlet Capacity (Sump Conditions) — Job. No.
Client: Charles Nokes — By SLB Date 1/93

CHAVEZ - GRIEVES / CONSULTING ENGINEERS, Inc. — Albuquerque, NM

GIVEN : 16" x 16" grate w/ max head = 1'

FIND : Inlet capacity in sump conditions

SOLN : For flow through a grate under ponding conditions, orifice type flow occurs. However, grates of larger free open area are not able to sustain ponding conditions @ shallow depths and the flow reverts to weir flow. Check both conditions, and use lower flow value.

FOR ORIFICE FLOW: $Q = CA\sqrt{2gh}$

where, Q = capacity (cfs)
A = free open area of grate (ft^2)
g = 32.2 ft/sec^2
h = depth of water over grate (ft)

For WEIR FLOW: $Q = 3.3P(h)^{1.5}$

where, Q = capacity (cfs)
P = perimeter of grate subject to flow (ft)
h = depth of water over grate (ft)

Neenah Grate R4552 = 0.6 ft^2 open area
R4557 = 0.8 ft^2 open area
> Use avg. = 0.7 ft^2

Perimeter = $\frac{(16")(4)}{12}$ = 5.33 ft

See attached calculations on Sheet No. 2

Q = 337 cfs @ 1' of head

JANUARY 28, 1993
COA FUELING FACILITY INLET CAPACITY CALCULATIONS
SUMP CONDITIONS

DEPTH (FT)	OPEN AREA (SQ FT)	PERIMETER LENGTH (FT)	ORIFICE FLOW (CFS)	WEIR FLOW (CFS)	INLET CAPACITY (CFS)
0.1	0.7	5.3	1.07	0.56	0.56
0.2	0.7	5.3	1.51	1.57	1.51
0.3	0.7	5.3	1.85	2.89	1.85
0.4	0.7	5.3	2.13	4.45	2.13
0.5	0.7	5.3	2.38	6.22	2.38
0.6	0.7	5.3	2.61	8.17	2.61
0.7	0.7	5.3	2.82	10.30	2.82
0.8	0.7	5.3	3.01	12.59	3.01
0.9	0.7	5.3	3.20	15.02	3.20
1.0	0.7	5.3	3.37	17.59	3.37
1.1	0.7	5.3	3.53	20.29	3.53
1.2	0.7	5.3	3.69	23.12	3.69
1.3	0.7	5.3	3.84	26.07	3.84
1.4	0.7	5.3	3.99	29.14	3.99
1.5	0.7	5.3	4.13	32.31	4.13

SQUARE AND RECTANGULAR DRAINAGE GRATES

Heavy Duty

The gratings in this series are rated heavy duty when supported on all four sides. Combinations of two or more standard grates in any size are often used to cover large drainage areas. For this condition, grates are rated heavy duty when installed with the shortest dimension spanning the opening.

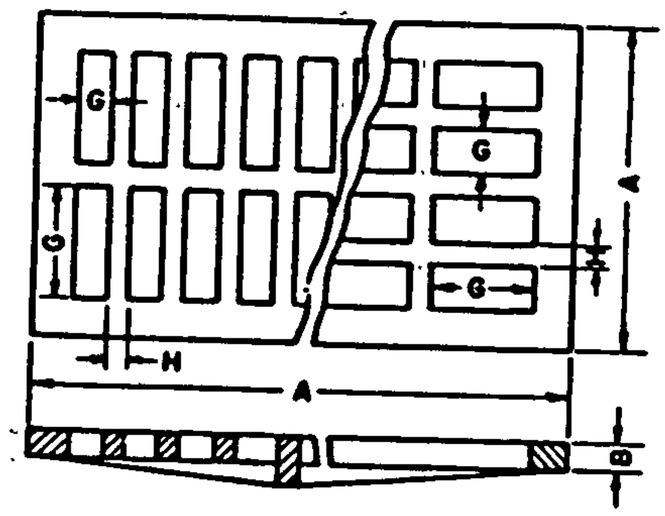
Other special sizes quoted on request in the event none of the standards shown in this series meet your requirements. In ordering replacement grates to be used on existing catch basins, be sure to specify the exact size of opening in which the grate will be used.

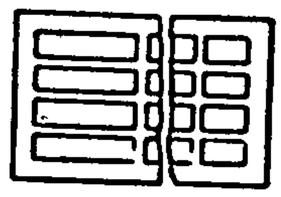
Many of the grates in this series can be adapted to trench frames with support on two sides as shown on pages 228 and 229. Most are qualified as heavy duty when the short dimension spans the trench. Advise loading requirements so we can confirm design selection for intended use.

For extreme conditions of load and shock, we recommend Ductile Iron. See page 3 for complete specifications.

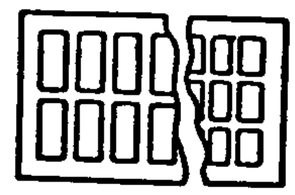
Specify:

1. Catalog number.
2. R-4899 angle frame when required. (See page 217.)
3. Perma-Grip surface if required. (See page 6.)

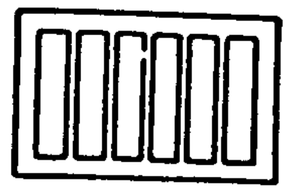




Type C



Type A



Type B

Type D

The above schematic drawing identifies basic dimensions only and does not apply to all grate designs. Bar and rib depths, plate thicknesses, and seating widths, may vary on different sizes and styles. If your project has design restrictions, ask for approval drawings.

All grates listed on pages 216-217 are considered bicycle safe.

Free open areas for most grates in this section are listed on pages 266 to 269.

HEAVY DUTY

Catalog No.	Dimensions in inches A	B	G	H	Wt. Lbs.	Grate Type
Square — Heavy Duty						
R-4400	8x8	1¼	1x5	1	13	B
R-4401	8x8	1	⅜x3	⅜	10	A
R-4408	10½x10½	1	⅞x8¼	1	18	B
R-444	12x12	1	⅝x2	¾	25	A
R-4441A	12x12	2	⅝x4⅞	¾	48	A
R-4442	12x12	2	1⅝x4	1	45	A
R-4535	14x14	1½	1½x5⅛	1⅛	45	A
R-4550	15x15	1¼	3½x3½	¾	35	G
R-4552	16x16	1¾	1¼x6¼	1¼	70	A
R-4557	16x16	1¼	1³⁄₁₆x3⅜	¾	40	A
R-4558	17½x17½	1¼	1x5	½	45	G
R-4660	18x18	1½	3x4½	1¼	60	G
R-4662	19¾x19¾	2½	1⅜x8½	1	135	A
R-4720	20x20	1¾	1⅜x3½	1¼	110	G
R-4721A	21x21	1¾	1½x8	1¼	108	A
R-4725	21x21	2	3x3	1	105	G
R-4760	22x22	1¾	3x5¾	1	110	G
R-4765	23x23	2	1x6¼	1	146	A
R-4808	24x24	2	⅜x5⅜	½	175	G
R-4809	24x24	2	⅝x10¾	¾	165	G
R-4810	24x24	2	1¾x6	1¼	165	G
R-4820	24x24	2	2x6	1¼	180	G
R-4826	24x24	2	1x6	1¼	190	A
R-4830	24x24	2	1x5	2	195	G
R-4832	24x24	1⅜	1x4½	1	135	G
R-4832-B	26x26	1¾	1¹⁄₁₆x4	1	185	G
R-4833	26x26	2	2x7	1	160	A
R-4850	27x27	2	2½x7½	1	150	G
R-4852	27x27	2	1½x5	1	210	G
R-4859-C	27⅜x27⅜	1	2x7	1	130	A
R-4880	28x28	2	1½x7¼	1	210	Q
R-4880-C	30x30	1½	1¼x5⅞	1¼	260	C
R-4884-A	36x36	1¾	2x4	1⅜	500	CΔ

†Convex. *Grate in two pieces. ΔMedium Duty
•Angle frame available.

Catalog No.	Dimensions in inches A	B	G	H	Wt. Lbs.	Grate Type
Rectangular — Heavy Duty						
R-4389-C	6x12	1¼	¾x4	1	16	B
R-4390	6x24	1	¾x4½	1	23	B
R-4391A	7x9	⅞	1x5	1	9	B
R-4392	7½x18	1⅝	1½x4¼	1	90	B
R-4393	7½x50	1¾	⅜x5½	¾	95	G
R-4403	8x14	1	1½x2⅛	½	18	A
R-4404-C	8x22	1	1¹⁄₁₆x5⅞	1	30	B
R-4406	8x22	1¾	1⁵⁄₁₆x6	1	50	B
R-4406-1	8x22	1¾	1x2⅝	¾	50	A
R-4406-2	8x22	1¾	1x5	1	50	G
R-4406-A	9x24	⅞	⅜x6	½	30	B
R-4406-C	9¼x23¾	1	1x2⅞	1	40	A
R-4407-2A	9½x24	1¾	1x7½	1	55	B
R-4408	10x14	1½	1x3½	1	45	A
R-4409-A	10x24	1¾	1¼x4¾	1	68	C
R-4409-C	10x24	1¾	1x7	1	70	B
R-4409-E	10x24	1¾	1x3½	1	65	A
R-4409-G	10x24	1½	2x8	1	45	B
R-4410	10x24	1½	2x8	1	55	B
R-4421	10x40	1⅛	1¼x8½	1	75	C
R-4423-A	10½x48	1⅝	1½x3⅛	1	130	A
R-4424	10½x23⅞	1¾	2x2	1	60	A
R-4430-A	11x24	1½	¾x4⅛	¾	55	A
R-4430-A1	11½x23⅞	1½	¼x6	1¼	50	C
R-4430-B	11½x24	1½	1x6⅝	1	55	C
R-4430-C	11¼x46⅛	1½	1x8	1	120	C
R-4435-L	13⅞x14⅜	2	1x5½	1	48	C
R-4443	12x14	1¾	1½x5¼	1¼	48	A
R-4449	12x24	1½	1½x4¼	1	65	A
R-4450	12x24	1¾	1x4½	1	70	A
R-4450-A	12x24	1¾	2x2	1	75	A
R-4451	12x24	2	1½x3¾	1	85	C
R-4454	12x26	1½	½x11½	½	60	C

NEENAH FOUNDRY COMPANY

FREE OPEN AREAS OF NEENAH GRATES (Continued)

CATALOG NO.	TYPE	SQ. FT. OPEN
R-4407-2A	B	0.6
R-4408	B	0.3
R-4409	A	0.4
R-4409-A	C	0.7
R-4409-B	A	0.6
R-4409-C	B	0.5
R-4409-E	A	0.5
R-4409-F	C	0.5
R-4409-G	B	0.8
R-4410	B	0.8
R-4411-B	B	0.4
R-4412	B	0.9
R-4413-A	A	0.6
R-4413-B	B	0.6
R-4414	B	0.8
R-4421	C	1.0
R-4421-A	A	1.5
R-4423	A	1.2
R-4423-A	A	0.8
R-4424	A	0.6
R-4426	C	1.6
R-4427	B	0.8
R-4430-A	A	0.6
R-4430-A1	C	0.2
R-4430-B	C	0.7
R-4430-C	C	1.4
R-4432	C	1.1
R-4433	C	0.6
R-4433-A	B	1.1
R-4433-A1	B	0.5
R-4433-B	C	1.0
R-4433-C	A	0.7
R-4435-1	C	0.8
R-4436	D	0.6
R-4436-A	B	0.7
R-4437	B	0.8
R-4437-A	A	0.7
R-4437-B	A	0.7
R-4437-C	C	0.7
R-4438	B	0.8
R-4438-A	A	0.5
R-4438-C	C	0.7
R-4439	B	1.2
R-4441	A	0.2
R-4441-A	A	0.3
R-4442	A	0.3
R-4442-A	A	0.4
R-4443	A	0.4
R-4444	A	0.4
R-4445	A	0.4
R-4448	A	0.6
R-4449	A	0.8
R-4450	A	0.8
R-4450-A	A	0.9
R-4451	C	0.7
R-4454	C	0.9
R-4455	B	0.5
R-4460	A	0.9
R-4462	B	0.9
R-4468	A	1.6
R-4470	A	1.5
R-4480	B	0.5
R-4490	A	1.0
R-4496	A	0.5
R-4500	A	0.8
R-4511	A	0.5
R-4521	C	1.0
R-4523	A	0.8
R-4523-A	A	0.8
R-4523-B	A	0.7
R-4523-C	B	1.1
R-4524	A	1.0
R-4524-C	C	0.9
R-4524-D	C	0.9
R-4525	A	0.8
R-4526	A	1.8
R-4527-A	B	1.2
R-4527-B	A	0.9
R-4530	A	0.8
R-4531	A	0.8
R-4540	C	1.1
R-4541	A	1.0
R-4544	A	1.8
R-4545	A	1.6
R-4548	A	1.0
R-4550	C	0.8
R-4550-A	A	1.0
R-4551	A	1.1
R-4552	A	0.6
R-4553	B	0.9
R-4557	A	0.8
R-4558	C	1.1
R-4560	B	1.0
R-4570-1	A	0.9
R-4570-2	A	0.9
R-4573	A	1.1
R-4574	A	1.0
R-4575	A	1.7
R-4575-A	A	1.6
R-4575-C	C	1.7
R-4579	A	0.8
R-4583	A	0.9
R-4584	A	1.4
R-4585	A	0.9
R-4586	A	0.7
R-4600	A	0.9
R-4603	C	1.2
R-4603-A	A	0.7
R-4604	C	1.3
R-4604-C	A	0.7
R-4604-D	A	1.5
R-4607	A	0.9
R-4608	A	0.8
R-4609	A	1.0
R-4610	A	1.0
R-4620	A	0.5
R-4630	C	1.0
R-4632	C	1.1
R-4640	A	1.1
R-4641-A	A	1.2
R-4641-C	C	1.1
R-4641-F	A	1.7
R-4643	A	0.9
R-4646	C	1.1
R-4649	A	1.0
R-4649-1	C	1.9
R-4650	A	0.9
R-4650-A	A	1.3
R-4650-B	B	1.1
R-4650-1	A	1.1
R-4650-2	C	1.4
R-4652	A	1.5
R-4653	A	1.6
R-4654	A	1.9
R-4654-C	C	3.6
R-4654-1A	C	2.3
R-4655-C	C	1.6
R-4655-D	A	1.5
R-4660	C	1.1
R-4662	A	1.3
R-4670-A	A	1.0
R-4671	A	1.1
R-4672	C	1.1
R-4689	C	1.4
R-4692-A	D	2.2
R-4698	A	1.7
R-4710	C	1.2
R-4711	C	1.8
R-4715	B	3.8
R-4718	A	2.8
R-4720	C	0.9
R-4721	C	1.0
R-4721-A	A	1.2
R-4725	C	1.6
R-4726	A	1.3
R-4729	A	1.4
R-4730	A	2.0
R-4731	A	2.5
R-4732	A	1.0
R-4736	C	1.1
R-4738	A	1.1
R-4739	C	1.3
R-4740	C	2.1
R-4750	C	2.4
R-4750-1	A	0.9
R-4751	C	1.9
R-4752	C	2.3
R-4754-C	C	4.2
R-4755-B	A	2.8
R-4755-C	C	2.9
R-4755-D	A	2.1
R-4756	C	4.3
R-4757	A	2.1
R-4758	C	2.8
R-4759	C	1.5
R-4760	C	1.7
R-4762	C	1.4
R-4765	A	1.4
R-4780	C	3.1
R-4781	C	3.0
R-4795	A	3.2
R-4798	C	2.4
R-4802	A	2.5
R-4804	A	2.2
R-4807	C	1.7
R-4807-A	A	1.9
R-4807-C	A	1.9
R-4808	C	1.4
R-4809	C	1.5
R-4810	C	1.5
R-4811	C	1.9
R-4811-A	C	0.8
R-4815	C	2.9
R-4817	A	2.4
R-4820	C	1.6
R-4821-A	C	1.7
R-4822	A	1.9
R-4825	C	1.8
R-4825-A	A	2.1
R-4825-B	C	1.6
R-4826	A	1.3
R-4828	A	1.9
R-4829	C	2.2
R-4830	C	0.9
R-4832	C	1.5
R-4832-B	C	1.7
R-4833	A	2.3
R-4834	A	1.6
R-4834-B	B	1.7
R-4835	C	3.7
R-4835-1	C	4.9
R-4835-2	C	3.2
R-4836	C	3.6
R-4837	A	2.2
R-4838	A	3.1
R-4838-A	A	2.1
R-4838-1	C	2.8
R-4839	A	2.1
R-4840	C	2.8
R-4841	C	2.8
R-4843	A	2.6
R-4846	C	5.6
R-4848	A	1.8
R-4849	A	1.5
R-4850	C	2.8
R-4852	C	2.2
R-4853	A	2.5
R-4853-A	A	3.1
R-4853-B1	C	3.3
R-4853-2	C	2.2
R-4854	A	3.2
R-4855	A	2.0
R-4856	C	3.1
R-4857	A	3.2
R-4859-C	A	2.4
R-4860	C	2.7
R-4880	C	2.3
R-4880-C	C	2.2
R-4884-A	C	3.3
R-4886	C	5.1
R-4888	A	5.5
R-4889-A	C	6.4
R-4890	C	3.4
R-4891	A	3.8
R-4891-A	A	4.0
R-4893	C	6.0
R-4893-B	C	1.0
R-4894	C	3.2
R-4895-2	A	6.4
R-4896-1	C	8.2
R-4896-5	A	4.7
R-4897	C	6.4
R-4938	A	0.8
R-4938-1	A	1.6
R-4938-A	A	1.2
R-4938-B	A	0.2
R-4939-A	K	3.3 sq. in.
R-4939-B	K	4.7 sq. in.
R-4976-1	A	0.9
R-4976-1	B	0.9
R-4976-2	A	1.5
R-4976-2	B	1.5
R-4976-3	A	2.8
R-4976-3	B	2.8
R-4976-4	A	3.3
R-4976-4	B	3.3
R-4976-5	A	5.2
R-4976-5	B	5.2
R-4977-1	A	1.5
R-4977-1	B	1.5
R-4977-2	A	2.0
R-4977-2	B	2.0
R-4977-3	A	3.7
R-4977-3	B	3.7
R-4977-4	A	5.3
R-4977-4	B	5.3
R-4977-5	A	8.8
R-4977-5	B	8.8
R-4990-AA	A	0.2
R-4990-AX	A	0.2
	C	0.3
	P	0.1
R-4990-BA	A	0.3
R-4990-BX	A	0.3
	C	0.3
	P	0.1
R-4990-CA	A	0.3
R-4990-CX	A	0.4
	C	0.4
	P	0.1
R-4990-DA	A	0.4
R-4990-DX	A	0.4
	C	0.5
	P	0.2
R-4990-EX	A	0.6
	C	0.5
R-4990-FX	A	0.7
	C	0.8
R-4990-GX	A	0.8
	C	0.7
R-4990-HA	A	0.8
R-4990-HX	A	0.9
	C	0.9
R-4990-JX	A	1.0
	C	1.1
R-4990-KX	A	1.1
	C	0.9
R-4990-LX	A	1.2
	C	1.2
R-4990-MX	A	1.3
	C	1.3
R-4990-NX	A	1.5
	C	1.6
R-4990-OX	A	1.7
	C	NA
R-4995-A1	B	0.2
	C	0.3
R-4995-A2	B	0.2
R-4996-A1	Diag. Bar Convex	0.3
	C	0.3
R-4996-A2	B	0.2
R-4996-A3	C	0.3
R-4997-A	C	0.3
R-4998	C	0.9
R-4999-Series Same as R-4990 Series.		
R-4999-L3	L	0.3
R-4999-L6	L	0.8
R-4999-L9	L	0.9
R-5901-A	G	0.2
R-5901-B	G	0.3
R-5901-C	G	0.5
R-5901-D	G	0.7
R-5901-E	G	1.1
R-5901-F	G	1.6
R-5901-G	G	2.0

Type K indicates "Special" grate style and is not among standard types as illustrated.

NOTE: On catalog #'s R-4990-AA thru R-4999-L9, SQ. FT. OPEN is per lineal foot.

CHAVEZ-GRIEVES/CONSULTING ENGINEERS, INC.

4600 MONTGOMERY N.E., BUILDING C, #101
ALBUQUERQUE, NEW MEXICO 87109
(505) 881-7376 FAX (505) 883-7119

January 28, 1993

Mr. Bernie J. Montoya, CE
Engineering Assistant
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

RE: DRAINAGE PLAN FOR THE CITY OF ALBUQUERQUE SOLID WASTE FUELING STATION (G15-D29B)

This letter details our responses to your January 12, 1993 comments regarding the Solid Waste Fueling Station drainage plan.

1. Please provide calculations showing the inlet capacity in a sump condition.

   The inlet capacity is 3.37 cfs as shown on the attached calculations. The peak flowrate for a 2-year storm is 0.4 cfs, so the inlet capacity exceeds the design inflow.

2. All the ponds must be sized using the 100-year, 24-hour criteria because they are 100 percent retention ponds.

   The ponds were designed to be temporary retention ponds capable of holding the on-site runoff from a 100-year, 6-hour storm. As stated in the May 1987 Drainage Report for this site prepared by Advanced Sciences, Inc., the design basis was that these ponds would become detention (rather than retention) ponds with completion of the Comanche/Griegos System improvements. With completion of the proposed improvements, the design calls for the installation of an orifice plate in a new line connecting the discharge from the ponds to a new 36-inch storm drain in Griegos. The orifice plate was sized to ensure that the site discharge does not exceed 0.2 cfs/acre (3.4 cfs for this site) which was the design criteria behind the Andrews-Asbury and Roberts design of the Griegos storm drain.

Because the ponds are designed to be connected to the proposed Griegos storm drain and will become detention ponds after the connection, and because the ponds were constructed some time ago to the approved 1987 design criteria, we feel that upgrading the existing, temporary conditions is unwarranted

3. Why are you using V2 criteria for the proposed pond?

Early in the design of this project, we discussed the site-specific drainage concerns with Loren Meinz of the City Hydrology Department. Loren agreed with us that initial flows from storm events larger than the 2-year storm will carry the majority of surface contaminants. Since these initial flows will be intercepted by the fueling facility storm inlet, they will be discharged to the grit/sedimentation pond and the oil/water separator for treatment. Any subsequent flows exiting the fueling station site should contain low levels of contaminants and should not impact the quality of the remaining Solid Waste Management Facility storm water.

4. Historical off-site flows originally entered the site along the east property line. These flows must be accepted at that point and allowed to pass through the site. Plan drawing indicates an earth berm.

The 1987 Drainage Report states that "no run-off originates from areas outside of the tract. Only the rainfall falling on the site requires consideration."

This statement was modified by Addendum No. 1 to the Drainage Report (dated October 3, 1987), since the existing Comanche/Griegos roadside ditches were silted up and the protective berms along Comanche/Griegos were eroded. Deterioration of these existing structures lead to the design of interim improvements to permit off-site flows to pass through the Solid Waste Management site. As detailed in Addendum No. 1, these improvements included the addition of a temporary sedimentation pond at the northeast corner of the property and the addition of an emergency spillway to Pond No. II. The temporary sedimentation pond was designed to serve as a repository for sediment from the 63 cfs of off-site flow. Once discharged from the sedimentation pond (either through a 24-inch RCP pipe or overland), the off-site flows enter Pond No. II, where the concrete spillway was designed to safely passes these flows from Pond No. 2 to the Alameda Lateral. Since the sedimentation pond retains the off-site sediment load and since detention in the pond decreases the peak discharge to the Alameda Lateral, the historic discharge conditions were improved.

Since the construction of the Addendum No. 1 improvements, the Comanche/Griegos berm has been reconstructed. A recent site visit verified that the protective berm is in place, and that the berm is as shown on our drawing SD-2. Therefore, the Solid Waste Management Site is protected from off-site flows.

The attached revision of Sheet SD-2 shows the off-site flows routed around the Solid Waste Management site, not entering the site at the northeast corner of the sedimentation pond as it did prior to the berm reconstruction.

5. Ponds 1, 2, and 3 must be sized for the 100-year 24-hour storm. They must also be reworked and upgraded to remove all of the pollutants.

Please see our response to item 2 above. Also, all work required to upgrade the ponds from an environmental standpoint is the responsibility of the City Solid Waste Management Department.

6. Final approval for connection to the proposed Special Assessment District must be granted by Mr. Loren Meinz from the Hydrology Planning Section. Please include a sign-off block for him.

We are not requesting connection to the proposed S.A.D. storm drain in Griegos, and we feel it would be more appropriate to include a signature block for Mr. Meinz when permission for a connection is requested. Therefore, we have not added a signature block.

7. Does the grit sedimentation pond have the capacity for the additional flow?

As shown in the 1987 Drainage Report, the oil-water separator was sized to process the 100-year six-hour runoff from drainage areas A and E. To do so, detention volume in the truck parking lot (drainage area A), detention volume in the maintenance building wash slabs (part of drainage area E), and the volume of the grit/sedimentation pond are utilized. The total volume provided is 28,390 cubic feet which exceeds the required volume of 26,555 cubic feet. Development of the fueling station site will send 1,071 cubic feet of additional flow to the grit/sedimentation pond during a 2-year storm. Since the inflow from drainage area C is less than the excess detention volume of 1,835 cubic feet, development of the fueling facility site will not impact the operation of the oil/water separator system.

8. The Master Drainage Plan does not indicate the Fueling Station where it is shown on your submittal. The Master Plan must also be revised to reflect this change.

   The 1987 Master Plan shows the northeast corner of the site (the current location of the sedimentation pond for offsite flow control) as the site for the future fueling facility. The fueling station site is actually located near the southeast property corner. Our Site Drainage Plan, Sheet C1, clearly shows both the proposed fueling station site and the temporary sedimentation pond. Since we have shown current conditions on the drawings submitted to Hydrology, since our drawings are more current than the Master Plan drawings, and since we do not have the original Master Plan drawings to modify, we do not propose to change the 1987 documents.

Please call if you have any questions, or if you have additional comments or concerns.

Very truly yours,

CHAVEZ-GRIEVES CONSULTING ENGINEERS, INC.

SUZI BALOGH, PE

Enclosures

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

January 12, 1993

David Grieves
Chavez-Grieves Inc.
4600-C Montgomery Blvd. NE
Albuquerque, NM 87109

RE: DRAINAGE PLAN FOR SOLID WASTE FUELING STATION (G15-D29B) ENGINEER'S STAMP DATED 12/16/92.

Dear Mr. Grieves:

Based on the information provided on your December 18, 1992 submittal, listed are some concerns that will need to be addressed prior to final approval:

1. Please provide the calculations showing the inlet capacity in a sump condition.

2. All ponds must be sized using the 100 year, 24 hour criteria because they are 100% Retention ponds.

3. Why are you using V2 criteria for the proposed pond?

4. Historical off-site flows originally entered the site along the east property line, this flows must be accepted at that point and allowed to pass through the site. Plan drawing indicates an earth berm.

5. Pond No. 1, 2, and 3 must be sized for the 100 year, 24 hour storm. They must also be reworked and upgraded to remove all the pollutants.

6. Final approval for connection to the proposed S.A.D. must be granted by Mr. Loren Meinz from the Hydrology Planning Section. Please include a sign-off block for him.

8. Does the grit sedimentation pond have the capacity for the additional flows?

PUBLIC WORKS DEPARTMENT

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

ENGINEERING GROUP

Telephone (505) 768-2500

9. Master Drainage Plan does not indicate the Fueling Station where it is shown on your submittal. Master Plan must also be revised to reflect this change.

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

Sincerely,

Bernie J. Montoya

Bernie J. Montoya, CE
Engineering Assistant

BJM/dl/WPHYD/7439

xc: Loren Meinz
Gene Romo
File

CHAVEZ-GRIEVES CONSULTING ENGINEERS, INC.

4600 MONTGOMERY N.E., BUILDING C, #101
ALBUQUERQUE, NEW MEXICO 87109
PHONE: (505) 881-7376 FAX: (505) 883-7119

LETTER OF TRANSMITTAL

TO: City of Albuquerque - Hydrology
3rd floor - Old Bldg.
Attn: Dolores

DATE: 12/18/92

JOB #

RE: COA Fueling Facility

WE ARE SENDING YOU ✓ **ATTACHED** ___ **UNDER SEPARATE COVER, THE FOLLOWING ITEMS:**

___ SHOP DRAWINGS	___ PLANS	___ SPECIFICATIONS	___ DISKETTE
___ CHANGE ORDER	✓ PRINTS	___ CALCULATIONS	___ ___
___ COPY OF LETTER	___ SAMPLES	___ REPORT	___ ___

COPIES	DATE	NO.	DESCRIPTION
1	12-16-92		Sheets SD-1, SD-2, and SD-3 of the plan set

RECEIVED
DEC 18 1992

THESE ARE TRANSMITTED AS CHECKED BELOW:

___ FOR YOUR USE	✓ FOR REVIEW & COMMENT
___ AS REQUESTED	___ RETURNED AFTER LOAN TO US
___ PLEASE CORRECT AND RESUBMIT	___ SUBMIT ___ COPIES FOR DISTRIBUTION
___ RESUBMITTAL IS NOT REQUIRED	___ RETURN ___ CORRECTED PRINTS
CORRECTIONS, IF ANY, ARE NOTED	___ ___

REMARKS: Dolores - The date on these drawings has been corrected. Please call if you have any other questions/comments.

COPIES TO: ___

SIGNED: Suzi Baloga

IF ENCLOSURES ARE NOT AS NOTED, KINDLY NOTIFY US AT ONCE. *REV.1/92*

DRAINAGE INFORMATION

PROJECT TITLE SOLID WASTE FUELING STATION ZONE ATLAS/DRNG. FILE #: G-15/218

LEGAL DESCRIPTION: A TRACT OF LAND WITHIN THE CITY OF ALBUQUERQUE SOLID WASTE FACILITY

CITY ADDRESS: 4600 EDITH BOULEVARD NE

ENGINEERING FIRM: CHAVEZ-GRIEVES CONS. ENG. CONTACT: SUZI BALOGH

ADDRESS: 4600-C MONTGOMERY NE PHONE: 881-7376

OWNER: CITY OF ALBUQUERQUE CONTACT:

ADDRESS: P.O. BOX 1293 PHONE: 768-2000

ARCHITECT: NOLAN & ASSOCIATES CONTACT: CHARLES NOLAN

ADDRESS: P.O. BOX 1788, ALAMOGORDO PHONE: 437-1405

SURVEYOR: NA CONTACT:

ADDRESS: PHONE:

CONTRACTOR: NA CONTACT:

ADDRESS: PHONE:

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT

*X DRAINAGE PLAN

____ CONCEPTUAL GRADING & DRAINAGE PLAN

____ GRADING PLAN

____ EROSION CONTROL PLAN

____ ENGINEER'S CERTIFICATION

____ OTHER

PRE-DESIGN MEETING:

____ YES

X 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. PRMT. APPROVAL

____ SECTOR PLAN APPROVAL

____ FINAL PLAT APPROVAL

____ FOUNDATION PERMIT APPROVAL

X BUILDING PERMIT APPROVAL

____ CERTIFICATE OF OCCUPANCY APPROVAL

____ GRADING PERMIT APPROVAL

____ PAVING PERMIT APPROVAL

____ S.A.D. DRAINAGE REPORT

____ DRAINAGE REQUIREMENTS

____ OTHER _____ (SPECIFY)

DATE SUBMITTED: 12/15/92

BY: _____

* REVISION TO "DRAINAGE REPORT FOR THE CITY OF ALBUQUERQUE SOLID WASTE MANAGEMENT FACILITY (OLD N.C. RIBBLE SITE) EDITH AND COMANCHE/GRIEGOS, ALBUQUERQUE, NEW MEXICO" PREPARED BY ADVANCED SCIENCES, INC., SEPTEMBER 1987 AND REVISED OCTOBER 3, 1987.