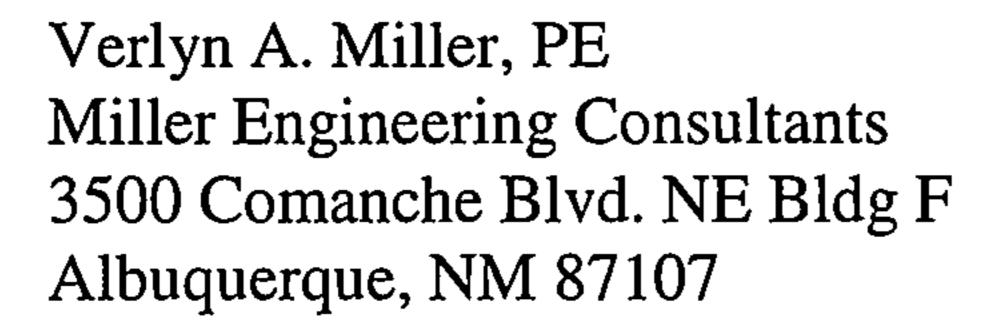
CITY OF ALBUQUERQUE

April 16, 2012



Re: Snow Vista Substation PNM

Grading and Drainage Plan

Engineer Stamp dated 4-5-2012 (M09/D028)

Dear Mr. Miller,

Based upon the information provided in your submittal received 4-05-12, the above referenced plan is approved for Grading Permit and Paving Permit. This project requires a National Pollutant Discharge Elimination System (NPDES) permit for storm water discharge. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

Upon completion of the project, provide an Engineer Certification for our files.

PO Box 1293

Albuquerque's MS4 Permit became effective March 1st, 2012. Grading and Drainage Plans and Drainage Reports will have to comply with the requirements of the new permit. The permit is available online at www.cabq.gov/Planning/landcoord/Hydrology.html

Albuquerque

If you have any questions, you can contact me at 924-3421 or Rudy E. Rael at 924-3977.

NM 87103

www.cabq.gov

Sincerely,

Cath a Chun

Curtis Cherne, P.E., CFM

Principal Engineer, Planning Dept.

Development and Building Services

RER/CAC

 \mathbf{C}

Kathy Verhage, DMD

email

Rael, Rudy E.

From:

Mazur, Lynn [lmazur@amafca.org]

Sent:

Monday, April 16, 2012 4:07 PM

To:

Rael, Rudy E.

Cc:

Verlyn Miller

Subject: RE: Snow vista subdivision

I would like a note added on the structural sheets that if excavation for the retaining wall footing encroaches into the AMAFCA right-of-way, a permit from AMAFCA will be required.

From: Mazur, Lynn

Sent: Monday, April 16, 2012 3:57 PM

To: 'Rael, Rudy E.' Cc: Verlyn Miller

Subject: RE: Snow vista subdivision

Re:

Public Service Company of New Mexico Substation by the Amole Channel, ZAP m-9

Engineer's Stamp Dated April 5, 2012

AMAFCA approves the grading and drainage plan for the subject project. The spillways from the retention ponds are for emergency overflow and, therefore, will not require additional riprap lining in the AMAFCA rightof-way. 10041- 24hr- /-

Albuquerque Metropolitan Arroyo Flood Control Authority

Lynn M. Mazur, P.E., C.F.M. Development Review Engineer

Phone: (505) 884-2215 Mobile: (505) 362-1273 www.amafca.org

The unauthorized disclosure or interception of e-mail is a federal crime. See 18 U.S.C. § 2517(4). This e-mail is intended only for the use of those to whom it is addressed and may contain information which is privileged, confidential and exempt from disclosures under the law. If you have received this e-mail in error, do not distribute or copy it. Return it immediately with attachments, if any, and notify me by telephone at (505) 884-2215.

From: Rael, Rudy E. [mailto:RRael@cabq.qov]

Sent: Monday, April 16, 2012 3:42 PM

To: Mazur, Lynn

Subject: Snow vista subdivision

Hello Lynn, is everything okay with you on this site? Thank you, sincerely; Rudy

No virus found in this message. Checked by AVG - www.avg.com

Version: 2012.0.1913 / Virus Database: 2411/4940 - Release Date: 04/16/12

	ATION INFORMATION SHEET M-09/2028	
	01/06)	
PROJECT TITLE: <u>NOW VISTA NORMANDER</u> EPC#:	ZONE MAP/DRG. FILE # 15-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	
	WORK ORDER#:	; i
LEGAL DESCRIPTION: THE E-5-A-1, Matchest CITY ADDRESS: NORTHERST OF SNOW VISTA VAND	5-A-1=2 Alb South, Unit 3 BK2010C Rg90, 8 2 GIBSON	3/3/201
	· · · · · · · · · · · · · · · · · · ·	
ENGINEERING FIRM: MILLER ENGINEERING CONSULTANCHE, BLUD BLDG F		
CITY, STATE: AUDIQUE QUE, NUM	PHONE: 3393-7500 ZIP CODE: 37107	
OWNER: PUBLIC SERVICE CO OF NEW MEXICO	CONTACT: CHEKS MAESTAS	
ADDRESS: ALVARADO GRUARE	PHONE: 241-0853	
CITY, STATE: ALBUSIONES, NIM	ZIP CODE: 37153	
ARCHITECT:	CONTACT:	
ADDRESS:CITY, STATE:	PHONE:	•
CHI, SIAID.	ZIP CODE:	
SURVEYOR: TIERRA LAND SURVEYS	CONTACT: CHRIS MEDINA	
ADDRESS: PO の分次 7552	PHONE: 797-0513	
CITY, STATE: COPPAINS NOW	ZIP CODE: 37/042	
•		
PROFESSIONAL LICENSED SURVEYOR SIGNATURE	LICENSE NO. DATE	•
CONTRACTOR:	CONTACT:	
ADDRESS:CITY, STATE:	PHONE:	
CIII, DIAILE,	ZIP CODE:	
TYPE OF SUBMITTAL:	CK TYPE OF APPROVAL SOUGHT:	
DRAINAGE REPORT	SIA/FINANCIAL GUARANTEE RELEASE	
DRAINAGE PLAN 1 st SUBMITTAL	PRELIMINARY PLAT APPROVAL	
DRAINAGE PLAN RESUBMITTAL	S. DEV. PLAN FOR SUB'D APPROVAL	
	S. DEV. FOR BLDG. PERMIT APPROVAL	
GRADING PLAN	SECTOR PLAN APPROVAL	
ENCINEER'S CERT (IXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	FINAL PLAT APPROVAL	
ENGINEER'S CERT (HYDROLOGY) CLOMR/LOMR	FOUNDATION PERMIT APPROVAL	
TRAFFIC CIRCULATION LAYOUT	BUILDING PERMIT APPROVAL CEPTIEICATE OF OCCUPANCY OF DAY	
ENGINEER/ARCHITECT CERT (TCL)	CERTIFICATE OF OCCUPANCY (PERM)	
ENGINEER/ARCHITECT (DRB SITE PLAN)	CERTIFICATE OF OCCUPANDO TOWN GRADING PERMIT APPR VAL	
OTHER	PAVING PERMIT APPROVAL	
	WORK ORDER APPROVAL	
	OTHER (SPECIFY) APR 05 2012	
TAZA CIA IDDE INECICAL COMBUNICACIONA A COMPANIONES.		
WAS A PRE-DESIGN CONFERENCE ATTENDED: YES	HYDROLOGY	
$\frac{NO}{2}$	SECTION	<u></u>
vro COPY PROVIDED		
SUBMITTED BY:	DATE: 4/5/12	

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope to the proposed development define the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

- 1. Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
- 2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
- 3. Drainage Report: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more.



April 5, 2012

Mr. Curtis Cherne, P.E.
Principal Engineer, Planning Dept.
Development and Building Services
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

RE: PNM Snow Vista Substation, Grading and Drainage Plan

Engineering Stamp dated 04/05/2012

Dear Mr. Cherne:

Please find enclosed the Grading and Drainage Plan for the above referenced project for your review. We have already sent a copy of this Plan to A.M.A.F.C.A. for their review, as well.

We are looking forward to your review and comments regarding this project. If you have any questions or comments, please feel free to contact our office or email John Jacquez (jjacquez@mecnm.com) or myself (vmiller@mecnm.com)

MILLER ENGINEERING CONSULTANTS, INC.

Verlyn A. Miller, P.E.

President

VAM:vam Enclosures

Cc: Ms. Lynn Mazur, Development Review Engineer, AMAFCA

Mr. Chris Maestas, Project Manager, PNM

RECEIVED

APR 05 2012

SUPPLEMENTAL DRAINAGE CALCULATIONS

PNM Snow Vista Substation Grading & Drainage Plan

Albuquerque, New Mexico

April 5, 2012 (Submittal #1)

Prepared For:

Public Service Company of New Mexico

Alvarado Square

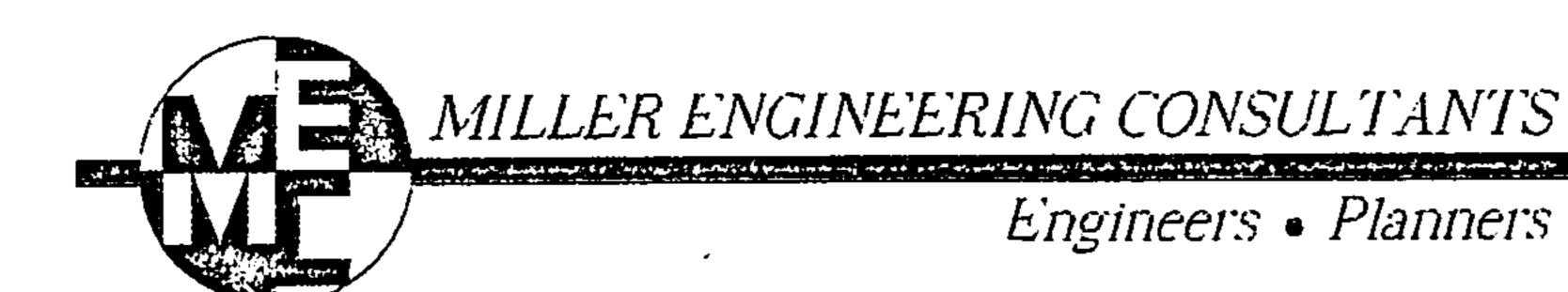
Albuquerque, New Mexico, 87158_

RECEIVED

APR 05 2012

HYDROLOGY
SECTION

Prepared By:



REGISTED AS TO STATE OF THE CONTRACT OF THE CO

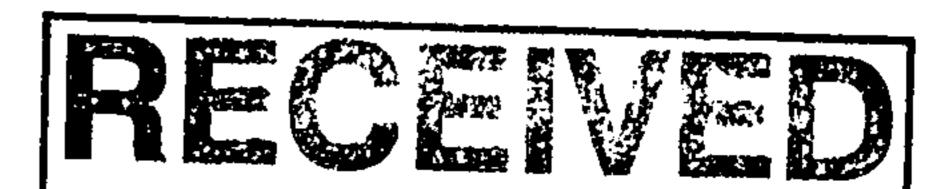
3500 Comanche NE, Bldg. F Albuquerque, New Mexico 87107

Phone: (505) 888-7500 Fax: (505) 888-3800

WATER HARVEST AREA 1				
Pond Rating Table				
Side Slop	ре	3:1		
Depth	Area		Volume	Cum Volume
(ft)	(sq ft)	(ac)	(ac-ft)	(ac-ft)
5128	682	0.016	0.000	0.000
5129	1071	0.025	0.020	0.020
5129.5	1291	0.030	0.014	0.034

-Storage

BASIN A (V100-24) = 0.016 :. OK



APR 05 2012

WATER HARVEST AREA 2				
Pond Ra	ting Table			
Side Slop	ре	3:1		
Depth	Area		Volume	Cum Volume
(ft)	(sq ft)	(ac)	(ac-ft)	(ac-ft)
5123	262	0.006	0.000	0.000
5124	620	0.014	0.010	0.010
5125	1057	0.024	0.019	0.029
5125.5	1308	0.030	0.014	0.043

←Storage

BASINC V(160-24) = 0.043 AF : OK



APR 05 2012

Worksheet for WATER HARVEST AREA 1-Basin A

Project Description		
Flow Element:	Broad Crested Weir	
Solve For:	Discharge	
Headwater Elevation:	5130.00	T
Crest Elevation:	5129.00	ft
Tailwater Elevation:	5128.00	ft
Crest Surface Type:	Gravel .	
Crest Breadth:	5.00	ft
Crest Length:	5.00	ft
Discharge:	15.00 Q100=0.576	ft³/s
Headwater Height Above Crest:	1.00	ft
Tailwater Height Above Crest:	-1.00	ft
Weir Coefficient:	3.00	US
Submergence Factor:	1.00	
Adjusted Weir Coefficient:	3.00	US
Flow Area:	5.00	ft²
Velocity:	3.00	ft/s
Wetted Perimeter:	7.00	ft



APR 05 2012

Worksheet for WATER HARVEST AREA 2-Basin C

Project Description		
Flow Element:	Broad Crested Weir	AALIMAA LA LA AAAAAAAAAAAAAAAAAAAAAAAAAA
Solve For:	Discharge	
Input Data		
Headwater Elevation:	5126.50	ft .
Crest Elevation:	5125.50	ft
Tailwater Elevation:	5123.00	ft
Crest Surface Type:	Gravel	
Crest Breadth:	5.00	ft
Crest Length:	5.00	ft
Results	15.00 $Q_{100} = 1.21C/5$	
Discharge:	15.00 (LICO = 1.21Cts	ft³/s () (-)
Headwater Height Above Crest:	1.00	ft
Tailwater Height Above Crest:	-2.50	ft
Weir Coefficient:	3.00	US
Submergence Factor:	1.00	
Adjusted Weir Coefficient:	3.00	US
Flow Area:	5.00	ft²
Velocity:	3.00	ft/s
Wetted Perimeter:	7.00	ft
Top Width:	5.00	ft



APR 05 2012