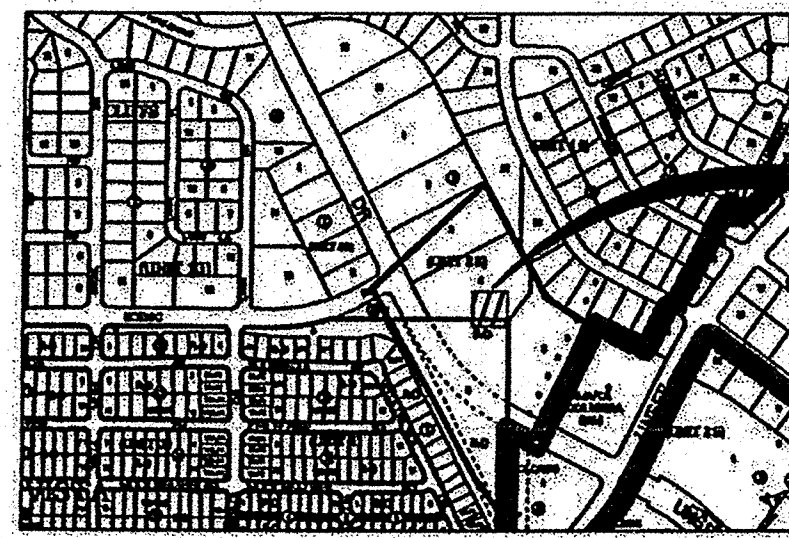




LOCATION

ZONE ATLAS MAP NO. D-09-Z



FLOOD INSURANCE RATE MAP

REFERENCE: FLOOD INSURANCE STUDY
PANEL 111 - MAP # 35001G0111G

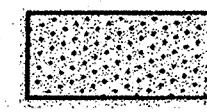


SOILS MAP

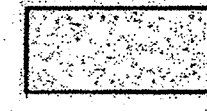
REFERENCE:

HTTP://WEB Soil SURVEY.NRCS.USDA.GOV

LEGEND



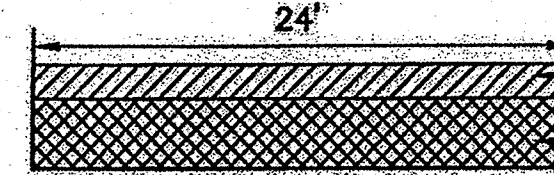
6" GRAVEL BASE COURSE



4" CRUSHED STONE



LIMITS OF SCENIC SUBSTATION



6" GRAVEL BASE COURSE
12" SUBGRADE PREP, 95%
MIN. COMPACTION

GRAVEL ACCESS SECTION

NTS

EASEMENT NOTES

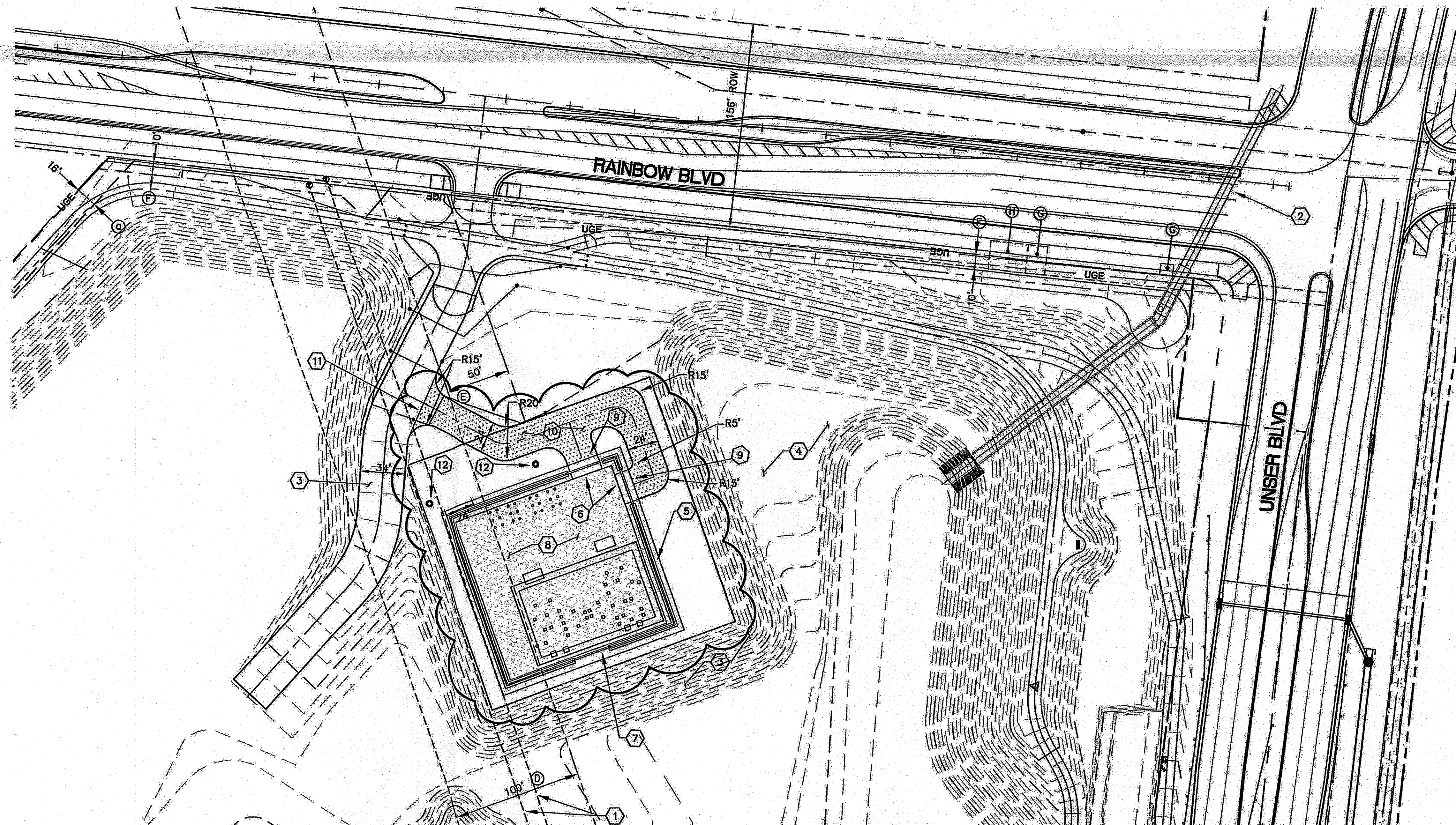
- D EXISTING 100' OVERHEAD POWERLINE EASEMENT SUBJECT TO ENCROACHMENT AGREEMENT BETWEEN AMAFCA & PNM.
E 50' ACCESS & UTILITY EASEMENT FOR THE BENEFIT OF PNM SUBSTATION.
F EXISTING 10' PNM EASEMENT.
G EXISTING 10' PNM EASEMENT.
H EXISTING 10' PNM EASEMENT.
Q EXISTING 16' PNM EASEMENT.

GENERAL NOTES

1. ALL DESIGN WORK SHALL CONFORM TO PNM STANDARDS & SPECIFICATIONS:
SSS-401, SITE PREPARATION CONSTRUCTION STANDARDS
SSS-418, ROADWAY CONSTRUCTION STANDARDS
SSS-419, CULVERT CONSTRUCTION STANDARDS
SSS-420, YARD SURFACING CONSTRUCTION STANDARDS

KEYNOTES

1. OVERHEAD POWER LINES, 115 KV
2. EXISTING 96" STORM DRAIN TO BE INSTALLED WITH BOCA NEGRA DAM PROJECT.
3. PART OF BOCA NEGRA DAM, CITY PROJECT NUMBER 781181.
4. SEEDED AREA, PART OF THE BOCA NEGRA DAM CITY PROJECT NUMBER 781181.
5. INSTALL 12' HIGH, 8" THICK CMU WALL.
6. INSTALL 24'-0" WIDE SWING GATE.
7. INSTALL 30'-0" WIDE LIFT OUT GATE.
8. INSTALL 4" THICK CRUSHED ROCK PER PNM YARD SURFACING CONSTRUCTION STD SSS-420. EXTEND ROCK LAYER MINIMUM 4 FEET BEYOND THE FENCE & 6 FEET BEYOND ALL GATE SWINGS.
9. INSTALL 10' W X 24' L X 6" H SPEED HUMP.
10. INSTALL 6" THICK GRAVEL BASE COURSE ACCESS. SEE PAVEMENT SECTION THIS SHEET.
11. BEGIN NEW PNM ACCESS.
12. TAP STRUCTURE LOCATION. -POWERLINE CONNECTION TO SUBSTATION



BOCA NEGRA DAM CITY PROJECT
NUMBER 781181 AND SAD 228 CITY
PROJECT NUMBER 693391 IMPROVEMENTS
SHOWN FOR CONTEXT ONLY

DRB CASE NUMBER

APPROVAL SIGNATURE	
TRAFFIC ENGINEER	DATE
CITY ENGINEER	DATE
PUBLIC WORKS UTILITY DIVISION	DATE
PARKS AND RECREATION	DATE
CITY PLANNER, PLANNING DIVISION	DATE
REFUSE DIVISION	DATE
FIRE MARSHAL	DATE

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PNM PUBLIC SERVICE COMPANY
OF NEW MEXICO

SITE DEVELOPMENT PLAN FOR BUILDING
PERMIT
UNIT SUBSTATION **SCENIC**

DR: TR: DATE: 6.14.2012
CKD: OK: SCALE: 1" = 50'
APP: ACAD FILE: USS-18006 1/4
REV. NO.

REVISION

NO. DATE BY

1 SITE PLAN



NOTES:

Landscape maintenance is the responsibility of the property owner

NOTES

SEED MIXTURE DESCRIPTIONS:

"B" - GRASS MIX WITH STRAW MULCH
"D" - GRASS MIX WITH GRAVEL MULCH

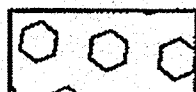
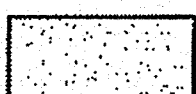
SEED MIXTURE TYPE "B"
(GRASS MIX)

Common Name/ Variety	Genus/Species	Lbs. PLS/acre
Blue grama "Hatchita"	Bouteloua gracilis	1.0
Sideoats grama "Niner"	Bouteloua curtipendula	3.0
Galleta (florete) "Viva"	Hilaria jamesii	3.0
Sand Dropseed	Sporobolus cryptandrus	1.0
Indian ricegrass "Paloma"	Oryzopsis hymenoides	4.0
Alkali Sacaton	Sporobolus airoides	1.0
CLASS "B" SEEDING (GRASS MIX) SUBTOTAL PLS/acre		13.0

SEED MIXTURE TYPE "D"
(GRASS MIXTURE)

SAME AS TYPE "B", LESS STRAW MULCH.
2" BASALT (BLACK) GRAVEL MULCH IN LIEU OF STRAW MULCH.

LEGEND

-  SEED MIXTURE TYPE "D"
-  6" GRAVEL BASE COURSE
-  4" CRUSHED STONE GREY
-  LIMITS OF SCENIC SUBSTATION

BOCA NEGRA DAM CITY PROJECT
NUMBER 781181 AND SAD 228 CITY
PROJECT NUMBER 693391 IMPROVEMENTS
SHOWN FOR CONTEXT ONLY

REVISION

NO. DATE BY

2

LANDSCAPING PLAN



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PNM PUBLIC SERVICE COMPANY
OF NEW MEXICO

RE-VEGETATION PLAN

UNIT SUBSTATION

SCENIC

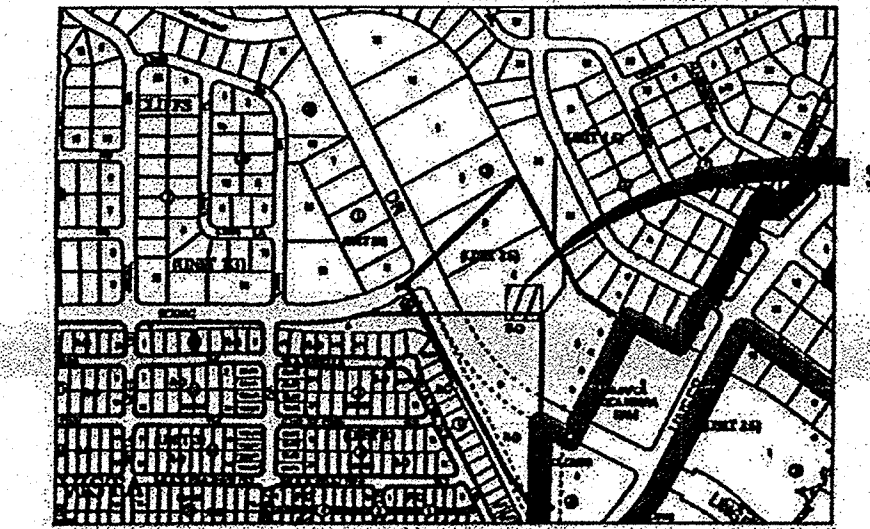
DR:	TR:	DATE:
CKD:	OK:	SCALE:
APP:	ACAD FILE:	USS-18006 2/4
REV. NO.		

GENERAL NOTES

1. ALL DESIGN WORK SHALL CONFORM TO PNM STANDARDS & SPECIFICATIONS.

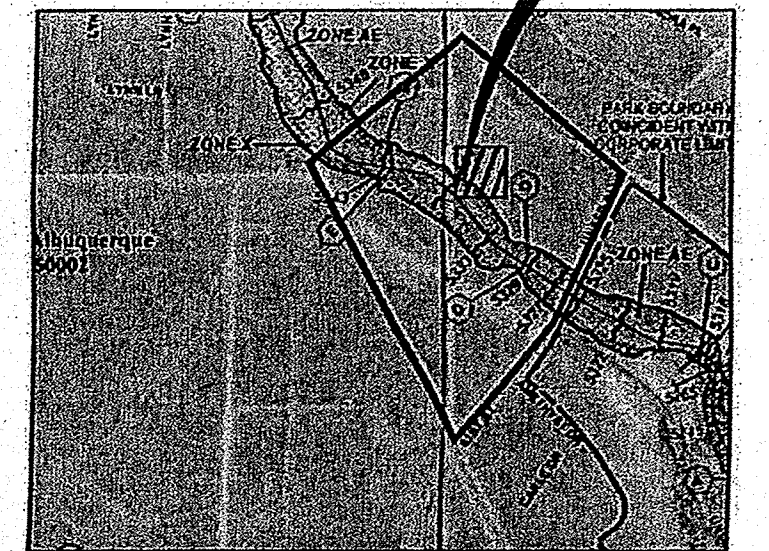
KEYNOTES

1. SEEDED AREA, PART OF THE BOCA NEGRA DAM, CITY PROJECT NUMBER 781181.
2. TAP STRUCTURE LOCATION.
3. PART OF BOCA NEGRA DAM, CITY PROJECT NUMBER 781181.
4. INSTALL 12' HIGH, 8" THICK CMU WALL.

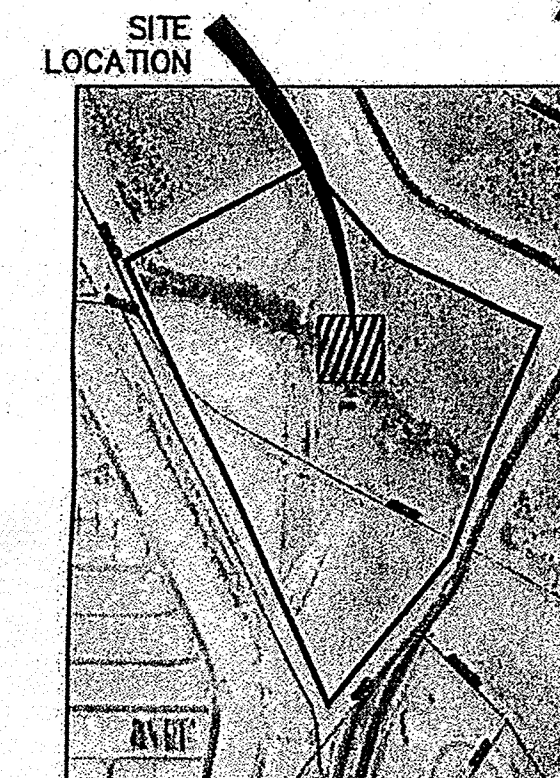


SITE LOCATION

LOCATION
ZONE ATLAS MAP NO. D-09-Z



FLOOD INSURANCE RATE MAP
REFERENCE: FLOOD INSURANCE STUDY
PANEL 111 - MAP # 35001C0111G



SOILS MAP
REFERENCE:
HTTP://WEBSOILSURVEY.NRCS.USDA.GOV

BOCA NEGRA DAM CITY PROJECT
NUMBER 781181 AND SAD 228 CITY
PROJECT NUMBER 693391 IMPROVEMENTS
SHOWN FOR CONTEXT ONLY

LEGEND

- 4" CRUSHED STONE
- 6" GRAVEL BASE COURSE
- LIMITS OF SCENIC SUBSTATION

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PNM PUBLIC SERVICE COMPANY
OF NEW MEXICO

GRADING & DRAINAGE PLAN

UNIT SUBSTATION **SCENIC**

DR: TR: DATE: 6.14.2012
CKD: OK: SCALE: 1" = 50'
APP: ACAD FILE: USS-18006 3/4
REV. NO.

Existing Conditions

The PNM Substation site is located within a 200' x 200' easement inside the proposed Boca Negra Dam with an area of 40,000 sq ft. The Boca Negra Dam is bounded by Rainbow Blvd to the north, Unser Blvd to the east, Universe Blvd and Scenic Road to the west and Vista Vieja Subdivision Unit II to the south. Construction of the Dam is scheduled to begin prior to the PNM Scenic Substation. The project site is currently undeveloped and will be rough graded with the Dam project. Fine grading to establish finished grade will occur during construction of the Substation. Access to the Substation is through Rainbow Blvd which will also be the access to the Dam.

Proposed Conditions

The proposed enclosed development area will include approximately 20,000 sq ft. The site is graded such that all generated runoff inside the perimeter walls will remain on site. The site is graded as a shallow pond.

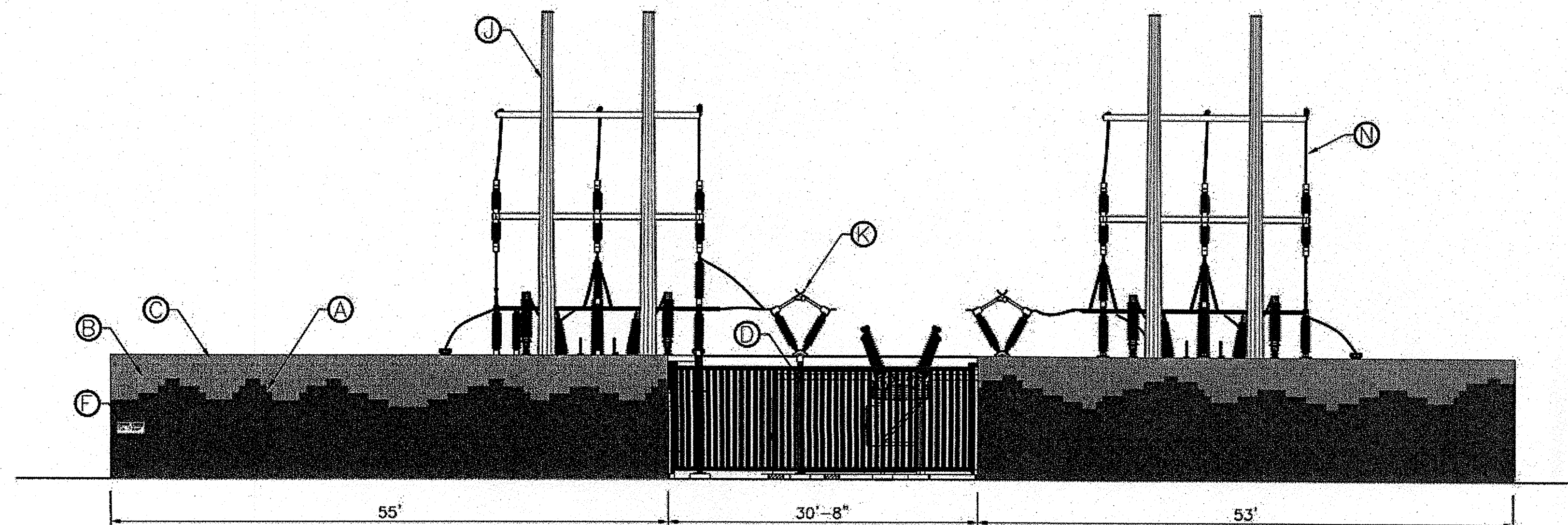
Chapter 22, section 2 Hydrology of the City of Albuquerque Development Process Manual was used to calculate existing and proposed peak flow and runoff volume. See Table 1 for calculations.

HYDROLOGY SUMMARY

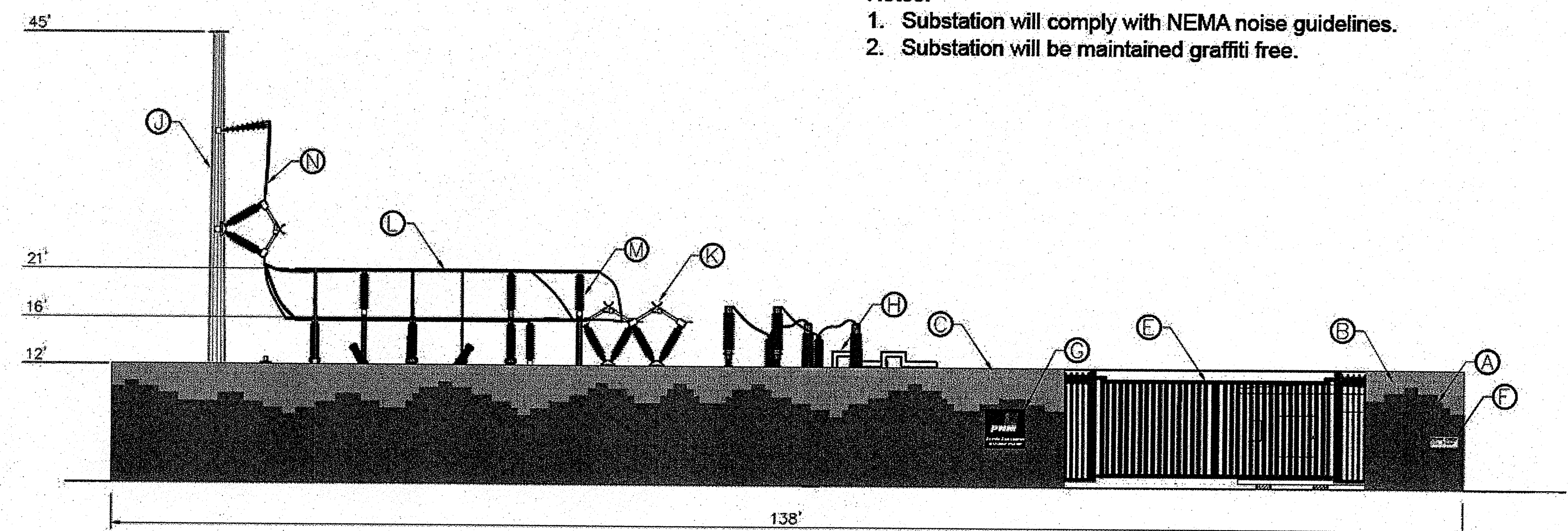
PROJECT NAME:		PNM Substation		AREA (acres)	LAND TREATMENTS				10 YEAR			100 YEAR				
JOB NUMBER:		11-600-106-00			A	B	C	D	Q (cfs)	VOLUME(ac.ft.)		Q (cfs)	VOLUME(ac.ft.)			
BASIN	COND.	DESCRIPTION			5 HR	24 HR	5 HR	24 HR	5 HR	24 HR	5 HR	24 HR	5 HR	24 HR	10 DAY	
Ons Rte	EXISTING			0.9428	80.0%	0.0%	20.0%	0.0%	0.46	0.012	0.012	1.81	0.043	0.043	0.0432	0.0432
Ons Rte	DEVELOPED			0.9428	0.0%	0.0%	70.0%	30.0%	1.80	0.053	0.058	3.13	0.101	0.108	0.1261	0.1457
				0.0000	0.0%	0.0%	0.0%	0.0%	0.00	0.000	0.000	0.00	0.000	0.000	0.0000	0.0000
INPUT DATA:																
PRECIP. ZONE		RAINFALL DEPTHS (INCHES) AT 100-YEAR STORM														
1		1 HOUR	6 HOUR	24 HOUR	4 DAY	10 DAY										
		1.71	2.23	2.85	3.30	4.13										

3 GRADING & DRAINAGE PLAN



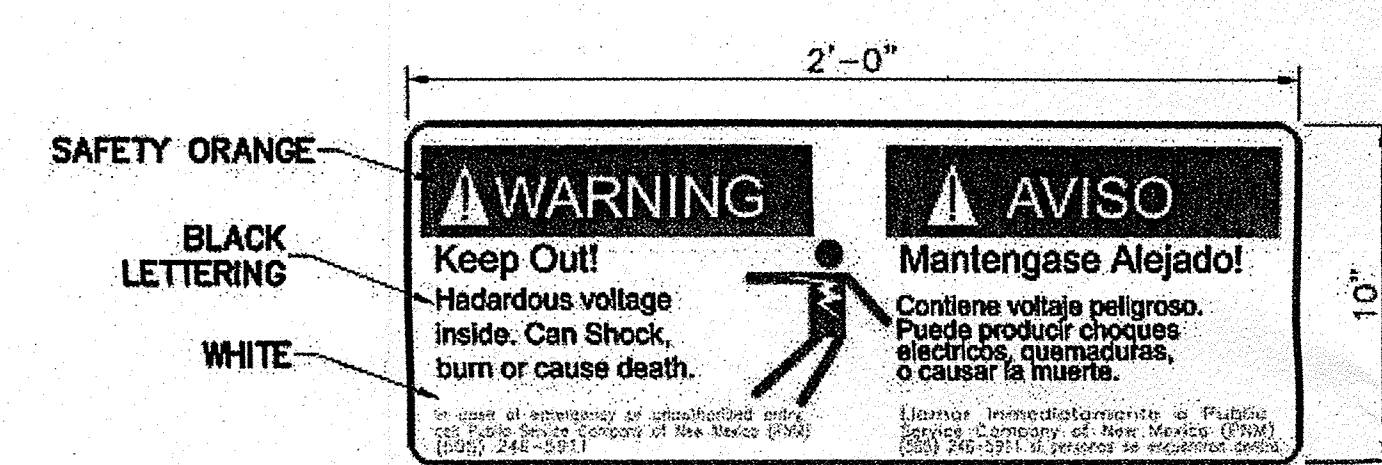


SOUTH ELEVATION



EAST ELEVATION

Notes:
 1. Substation will comply with NEMA noise guidelines.
 2. Substation will be maintained graffiti free.

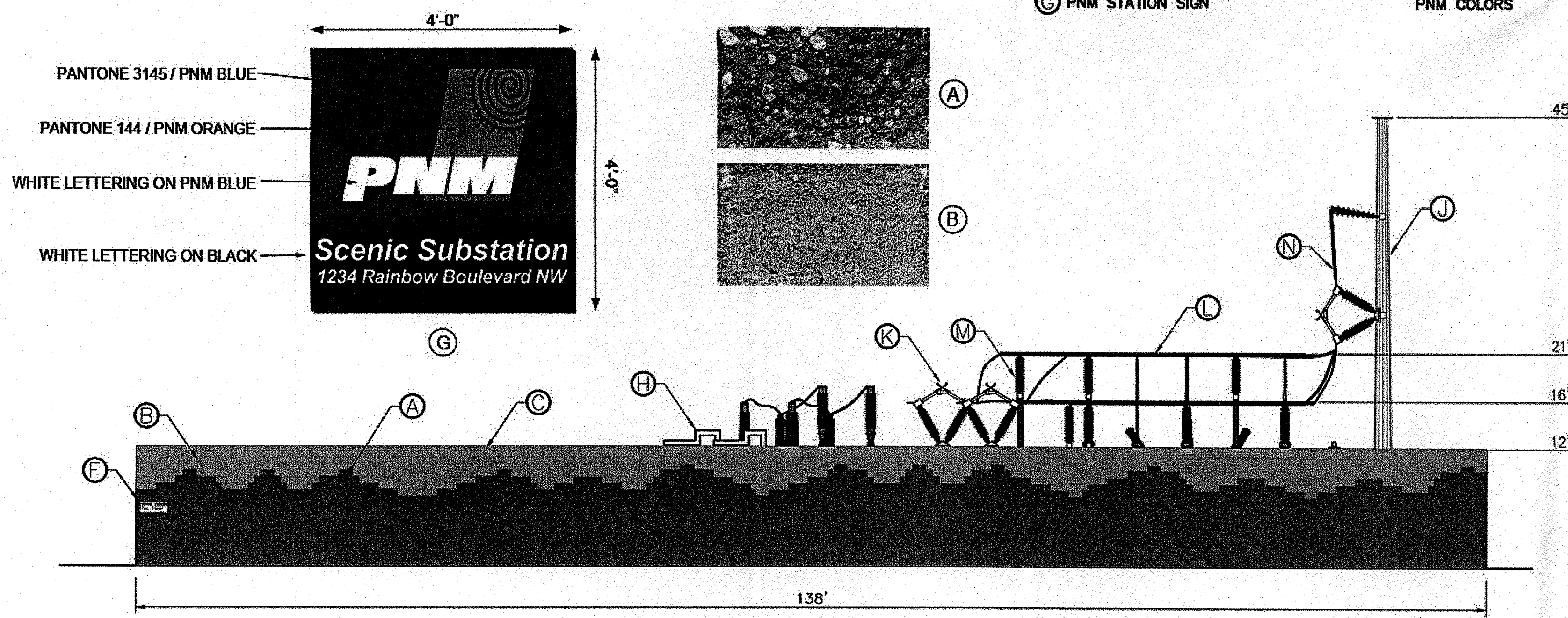


WARNING SIGN

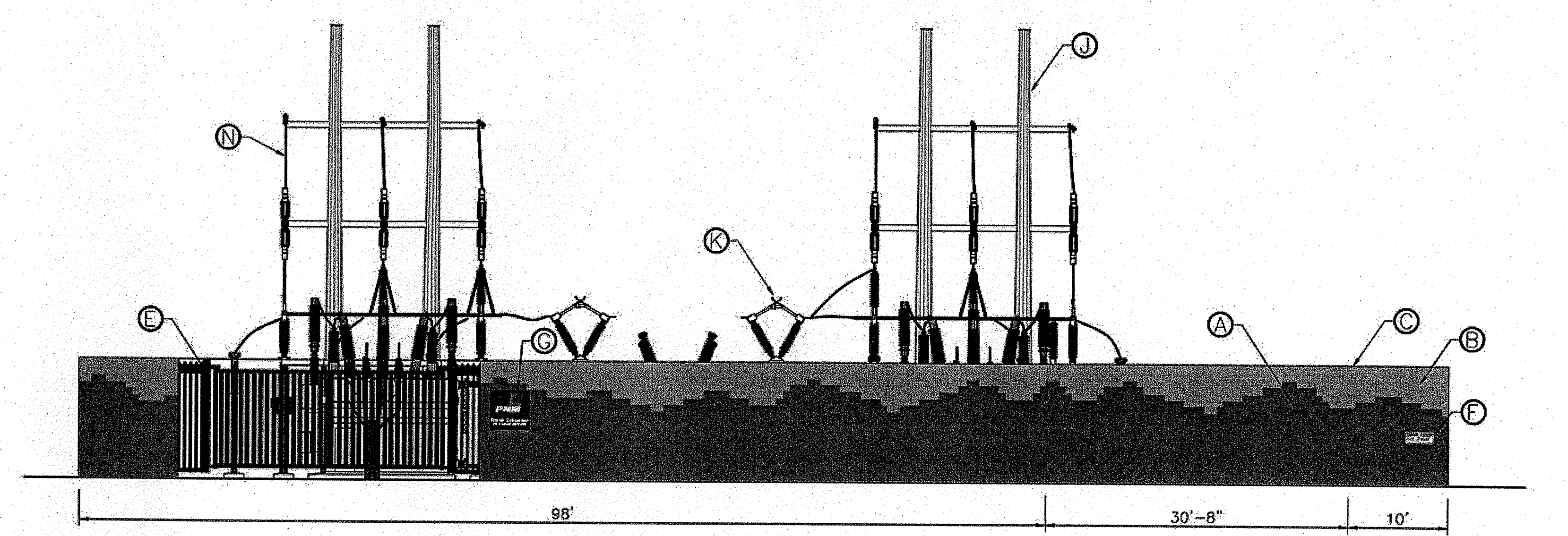
KEYED ITEM	COLOR
(A) SPLIT-FACE BLOCK (CHESTNUT)	EARTH TONE
(B) SMOOTH-FACE BLOCK (ELK HORN)	EARTH TONE
(C) TOP & CAP BLOCK (ELK HORN)	EARTH TONE
(D) STEEL FIXED GRILL	EARTH TONE
(E) STEEL SWING GRILL	EARTH TONE
(F) WARNING SIGN	(SEE DETAIL)
(G) PNM STATION SIGN	PNM COLORS

SPECIFICS
UTILITY BLOCK CO. INC. #260 *
UTILITY BLOCK CO. INC. #220
UTILITY BLOCK CO. INC. #220
PAINTED, BREVITY BROWN SW606B LRV10
PAINTED, BREVITY BROWN SW606B LRV10
NON-REFLECTIVE SURFACE
NON-REFLECTIVE SURFACE
*LRV unavailable for all utility block descriptors

KEYED ITEM	COLOR	COLOR
(H) TRANSFORMER	ANSI-70 GREY	NON-REFLECTIVE SURFACE
(J) DEAD END STRUCTURE	WEATHERED STEEL	NON-REFLECTIVE SURFACE
(K) V-SWITCH	ANSI-70 GREY	NON-REFLECTIVE SURFACE
(L) ELECTRIC BUS	ALUMINIUM GREY	NON-REFLECTIVE SURFACE
(M) BUS INSULATOR	ANSI-70 GREY	NON-REFLECTIVE SURFACE
(N) CONNECTION WIRE	ALUMINIUM GREY	NON-REFLECTIVE SURFACE



WEST ELEVATION



NORTH ELEVATION

REVISION
 NO. 1
 DATE 06-15-12
 BY JAE

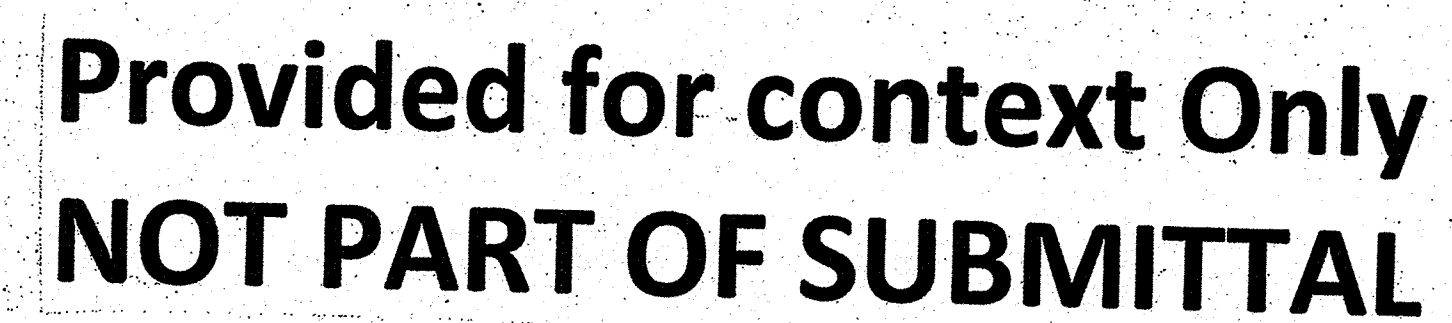
PROPRIETARY STATEMENT

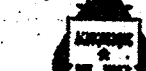
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PNM PUBLIC SERVICE COMPANY OF NEW MEXICO

**ELEVATION VIEW
 115KV LAYOUT
 SCENIC UNIT SUBSTATION**

DR: DK	TR:	DATE: 6.15.12
CKD:	OK:	SCALE: 1"=10'-0"
APP:	ACAD FILE:	
REV. NO.		USS-18006

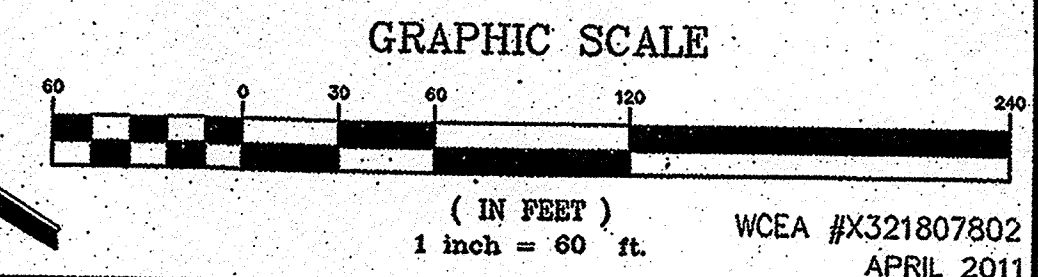


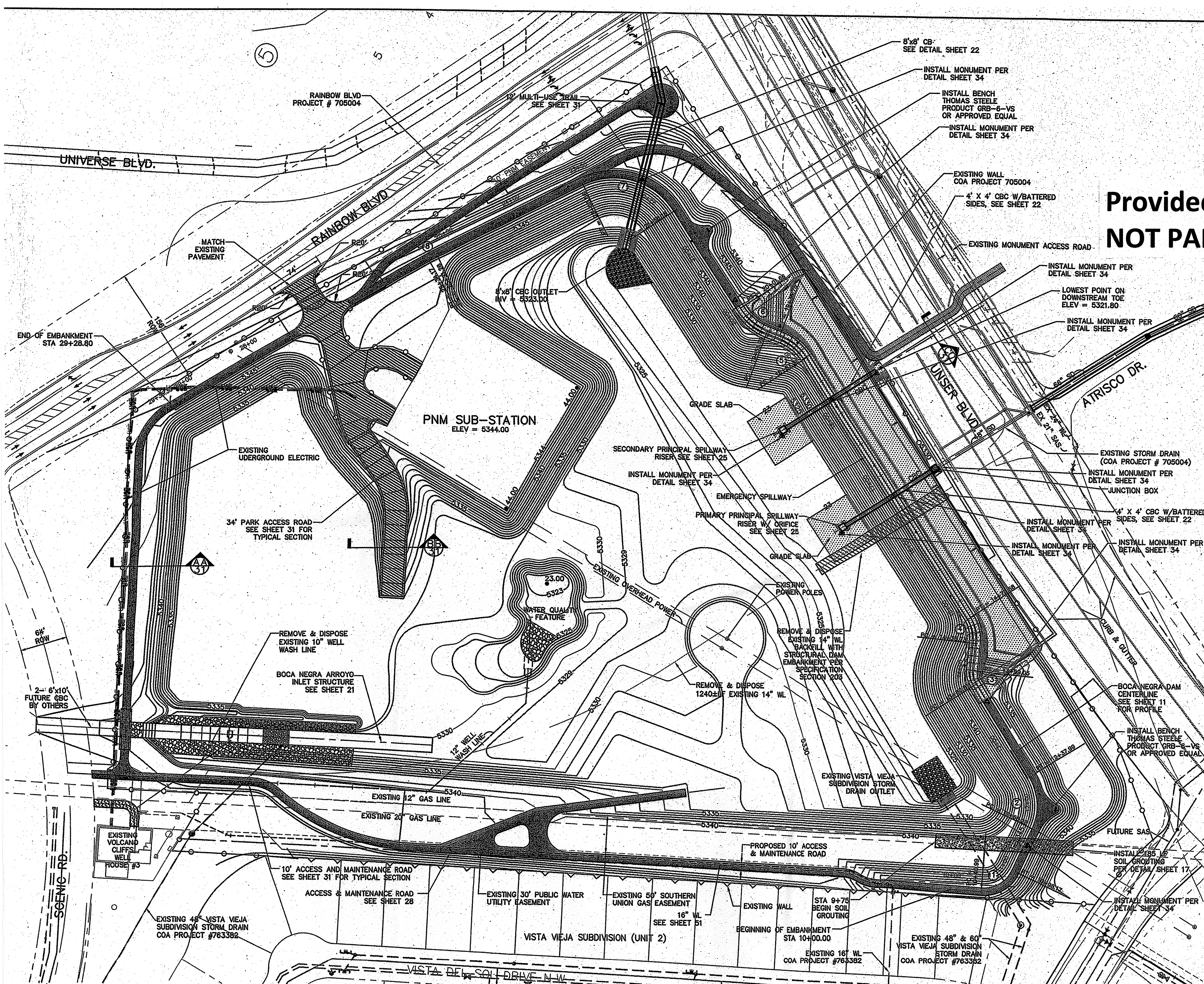
	ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY	
DAM BID LOT		
FENCING & REVEGETATION PLAN		

Design Review Committee APPROVED FEB 10 2012 DESIGN REVIEW COMMITTEE	City Engineer Approval APPROVED FEB 10 2012 CITY ENGINEER	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">Mo./Day/Yr.</td> <td style="width: 10%; text-align: center;">Mo./Day/Yr.</td> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>	Mo./Day/Yr.	Mo./Day/Yr.										
Mo./Day/Yr.	Mo./Day/Yr.													
City Project No. 781181	Zone Map No. D- 9/10	Sheet 32 OF 55												

SEED MIXTURE TYPE "D"
(GRASS MIXTURE)

SAME AS TYPE "B", LESS STRAW MULCH.
2" BASALT (BLACK) GRAVEL MULCH IN LIEU OF STRAW MULCH.
SEE SPEC SECTION 629





MAINTENANCE ROAD PAVING SCHEDULE			
	34' ACCESS & MAINTENANCE ROAD	SEE ROADWAY TYPICAL SECTIONS SHEET 31	
	12' TRAIL	SEE MULTI-USE TRAIL SHEET 31	
	10' MAINTENANCE ROAD	SEE ROADWAY TYPICAL SECTIONS SHEET 31	
	16' BASE COURSE ENTRANCE ROAD		
	SOIL CEMENT		

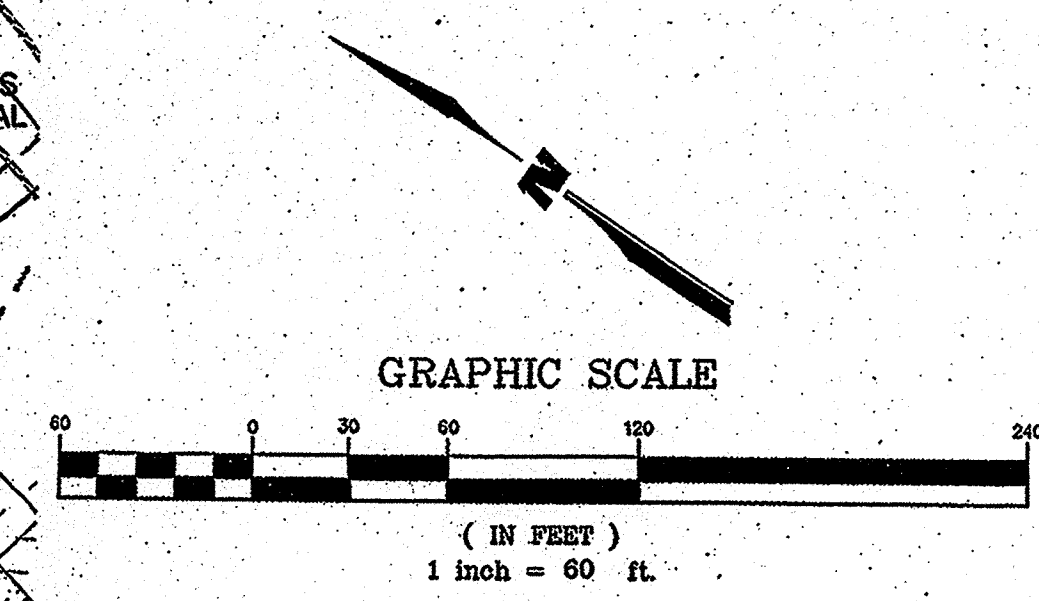
Provided for context Only
NOT PART OF SUBMITTAL

CL CURVE DATA FOR DAM CENTERLINE
SEE SHEET 1-11 FOR PROFILE

① Δ = 68°45'58" R = 47.64' T = 32.60' L = 57.17'	② Δ = 57°29'44" R = 77.50' T = 42.51' L = 77.77'
③ Δ = 38°00'09" R = 27.50' T = 9.47' L = 18.24'	④ Δ = 38°28'48" R = 66.50' T = 19.72' L = 37.95'
⑤ Δ = 37°00'24" R = 75.00' T = 25.10' L = 48.44'	⑥ Δ = 36°34'20" R = 75.00' T = 24.78' L = 47.87'
⑦ Δ = 83°17'36" R = 100.00' T = 88.93' L = 145.37'	⑧ Δ = 3°04'33" R = 200.00' T = 6.45' L = 12.89'

NOTE:
1) MONUMENTS TO BE INSTALLED ACCORDING TO AMAFCA STANDARD DETAIL AND SPECIFICATION SHEET 34.
2) NM GAS CO REPRESENTATIVE MUST BE PRESENT DURING CHEMICAL GROUTING OPERATIONS.
3) CARBONITE MARKERS TO BE INSTALLED ALONG EACH H.P. GAS LINE EVERY 500 FT. MARKER TO BE FURNISHED BY NM GAS. (MIN. 12 MARKERS)

NOTE:
SEE SHEET 32 "FENCING & REVEGETATION PLAN FOR FENCING, GATE AND BOLLARD INFORMATION.



ALBUQUERQUE METROPOLITAN
ARROYO FLOOD CONTROL
AUTHORITY
DAM BID LOT
SITE PLAN

Design Review Committee

FEB 10 2012
DESIGN REVIEW COMMITTEE

City Engineer Approval

FEB 10 2012
CITY ENGINEER

Mo./Day/Yr.
Mo./Day/Yr.
Last Design Update

City Project No.
781181

Zone Map No.
D- 9/10

Sheet
10 OF 55