



City of Albuquerque

September 20, 2000

Carl Abrams, P.E.
Daniel B. Stephens & assoc, Inc.
6020 Academy NE, Suite 100
Albuquerque, NM 87109

**RE: PNM "ROY" SUBSTATION (B17-D5). DRAINAGE REPORT, GRADING AND
DRAINAGE PLAN FOR BUILDING PERMIT APPROVAL. ENGINEER'S STAMP
DATED AUGUST 31, 2000.**

Dear Mr. Abrams:

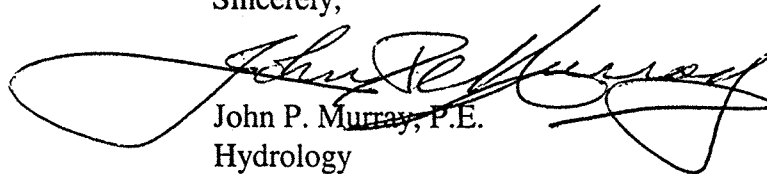
Based on the information provided on your August 31, 2000 submittal, the above referenced project is approved for Building Permit.

Please attach a copy of this approved plan (Sheet 2 of 4) to the construction sets prior to sign-off by Hydrology. Retitle Sheet "Grading and Drainage Plan"..

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.

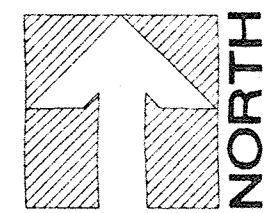
Sincerely,


John P. Murray, P.E.
Hydrology

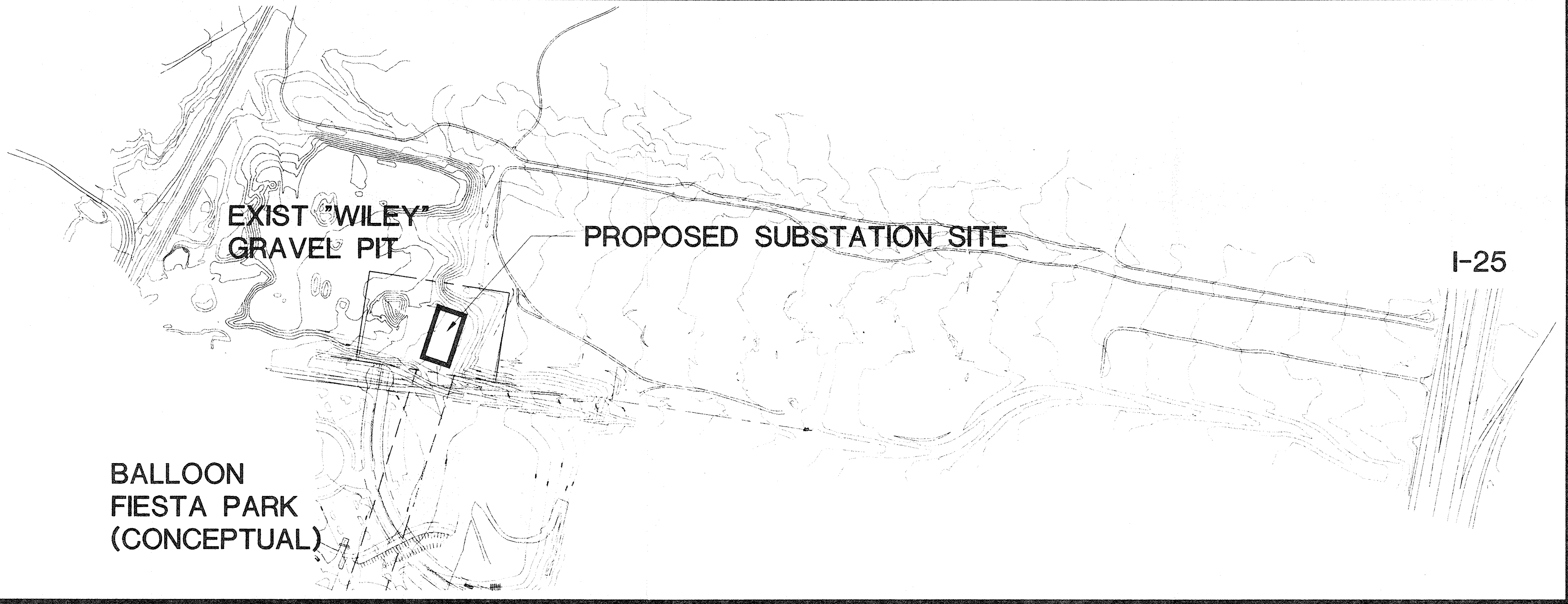
c: Whitney Reiersen
File

XREF: S:\PROJECTS\9019\ACAD\IMAGES\SANDIA_32.DWG; SANDIA37.DWG; SANDIA_48.DWG; S:\PROJECTS\9019\ACAD\INCOMING\BOHANNAN-HUSTON-BFP-NE-REALIGNED

IF THIS BAR IS NOT 1" LONG,
ADJUST SCALES ACCORDINGLY



BALLOON
FIESTA PARK
(CONCEPTUAL)

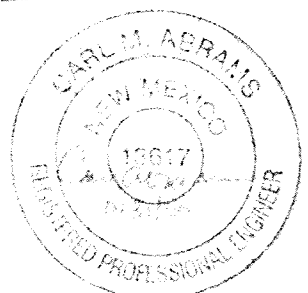
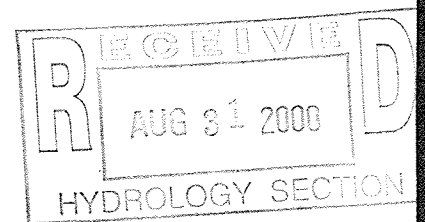


VICINITY MAP
NTS

PNM "ROY" SUBSTATION

SANDIA PUEBLO, NEW MEXICO

PREPARED FOR:
PUEBLO OF SANDIA



SPCE
CENTRAL NEW MEXICO
TITLE SHEET

JOB NO.
9019

SHEET
1 of 4

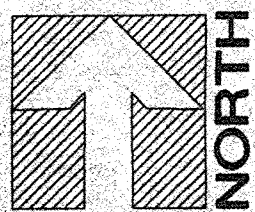
Daniel B. Stephens & Associates, Inc.
ENVIRONMENTAL SCIENTISTS & ENGINEERS
6020 ACADEMY NE, SUITE 100
ALBUQUERQUE, NM 87109
(505) 822-9400

DESIGNED BY:
CMA
DRAWN BY:
CMA
CHECKED BY:
NFM
DATE: 8/31/00

NO	DATE	BY	REVISION MADE
0	3/24/00	CMA	ISSUED FOR REVIEW
1	6/22/00	CMA	ISSUED FOR REVIEW
2	8/31/00	CMA	ISSUED FOR PERMIT APPLICATION

FILE NAME: S:\PROJECTS\9019\ACAD\9019104.DWG

REF: S:\PROJECTS\0019\ACAD\INCOMING\BOHANNAN-HUSTON-BPT-NE-REALONE



0 30 FT

IF THIS BAR IS NOT 1" LONG,
ADJUST SCALES ACCORDINGLY

SURVEY CONTROL NOTES:

ALL COORDINATE AND ELEVATION INFORMATION FOR SITE DESIGN BASED ON SURVEY DATA PROVIDED BY PACIFIC WESTERN TECHNOLOGIES MAY 8, 1999.

HORIZONTAL (N&E) COORDINATES REPRESENT NEW MEXICO STATE PLANE NAD 83.

VERTICAL COORDINATES REPRESENT ELEVATION FEET MEAN SEA LEVEL (FTMSL) NAVD88.

SURVEY CONTROL POINTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1000	1529077.79	1540429.89	5135.5	S11 S12 CC EG (NOT SHOWN)
1011	1529651.03	1539030.45	5103.2	#4 REBAR "PS 11463"
1013	1529281.80	1539093.29	5103.7	#5 REBAR
1015	1529616.08	1539255.46	5108.6	#4 REBAR "PS 11463"

SITE GRADING PLAN

1" = 30'

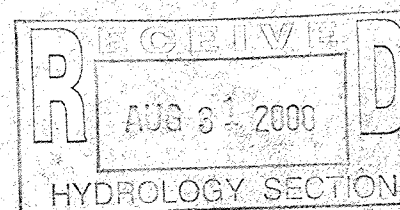
LEGEND:

N	NORTHING (FT)
E	EASTING (FT)
PT	POINT OF TANGENCY
PC	POINT OF CURVATURE
N 1529331	NORTHING
E 1538867	EASTING
5079.5	ELEVATION

CONSTRUCTION NOTES:

- GEOTECHNICAL STUDY INDICATES "CONCRETE AND ORANGE PLASTIC CONSTRUCTION DEBRIS" BETWEEN 9' AND 12' IN THIS VICINITY. CONTRACTOR SHALL DETERMINE EXTENT OF DEBRIS AND REMOVE AS NECESSARY ANY MATERIAL NOT SUITABLE FOR ELECTRIC PAD FOOTINGS IN ACCORDANCE WITH EARTHWORK SPECIFICATIONS.
- SPECIFICATIONS FOR EARTHWORK SHALL BE FOLLOWED IN ACCORDANCE WITH GEOTECHNICAL ENGINEERING STUDY PERFORMED BY AGRA (FEBRUARY 8, 2000).
- EXISTING ACCESS GATE TO SITE IS SUBSTANDARD. CONTRACTOR SHALL REPAIR/REPLACE AND RELOCATE GATE AS NECESSARY IN ORDER TO PROVIDE SITE ACCESS WITHIN EXISTING RIGHT OF WAY. CONTRACTOR SHALL SUBMIT PLANS FOR GATE REPAIR/REPLACEMENT TO ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.

EXIST ASPHALT ROAD AND PARKING ARE SUBSTANDARD. IMPROVEMENTS MAY BE REQUIRED PRIOR TO HAULING TRANSFORMER. INTERIM SITE ACCESS TO PROPOSED SUBSTATION SHALL BE WITHIN EXIST ROW.
- LOCATION OF PROPOSED SLOPE EASEMENT IS APPROXIMATE ONLY. FINAL LOCATION AND DIMENSIONS OF THE SLOPE EASEMENT SHALL BE DETERMINED UPON COMPLETION OF THE PROJECT BASED ON AS-CONSTRUCTED LIMITS OF SLOPE ENCROACHMENT.



SPCE
CENTRAL NEW MEXICO
PNM ROY SUBSTATION
SITE GRADING PLAN

JOB NO.
9019

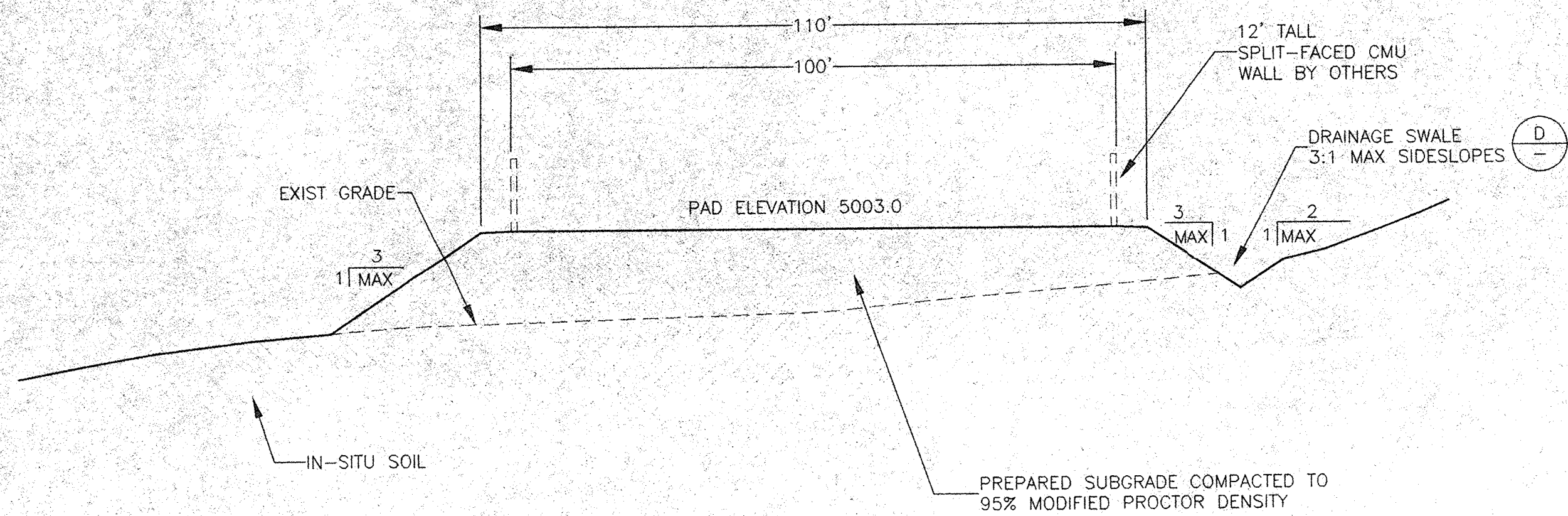
SHEET
2 of 4

DESIGNED BY:
CMA
DRAWN BY:
CMA/KDB
CHECKED BY:
MFM
DATE: 8/31/00

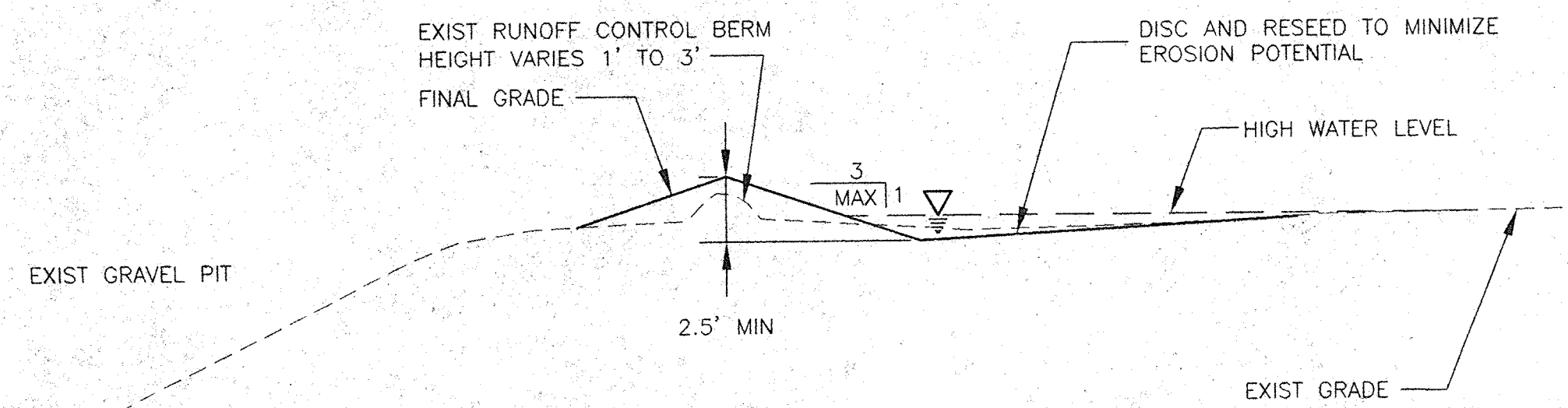
Daniel B. Stephens & Associates, Inc.
ENVIRONMENTAL SCIENTISTS & ENGINEERS
8020 ACADAY NE, SUITE 100
ALBUQUERQUE, NM 87109
(505) 822-9400

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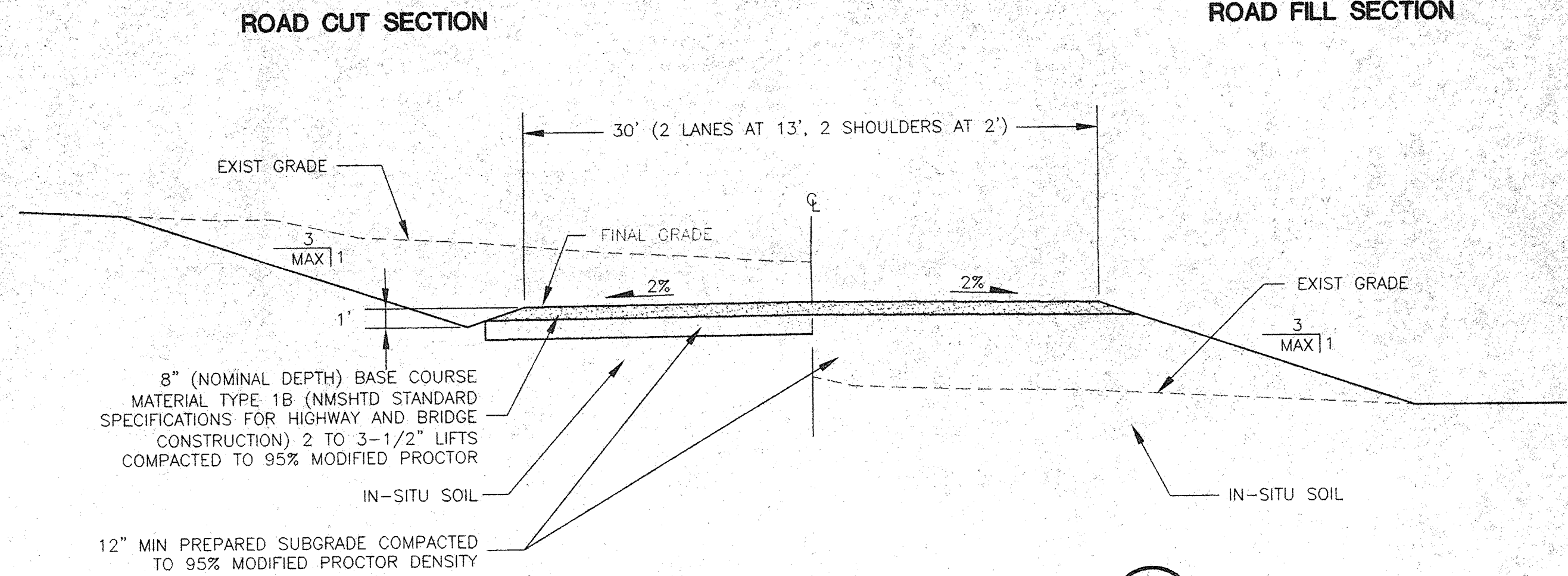
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TYPICAL PAD SECTION **A**
2



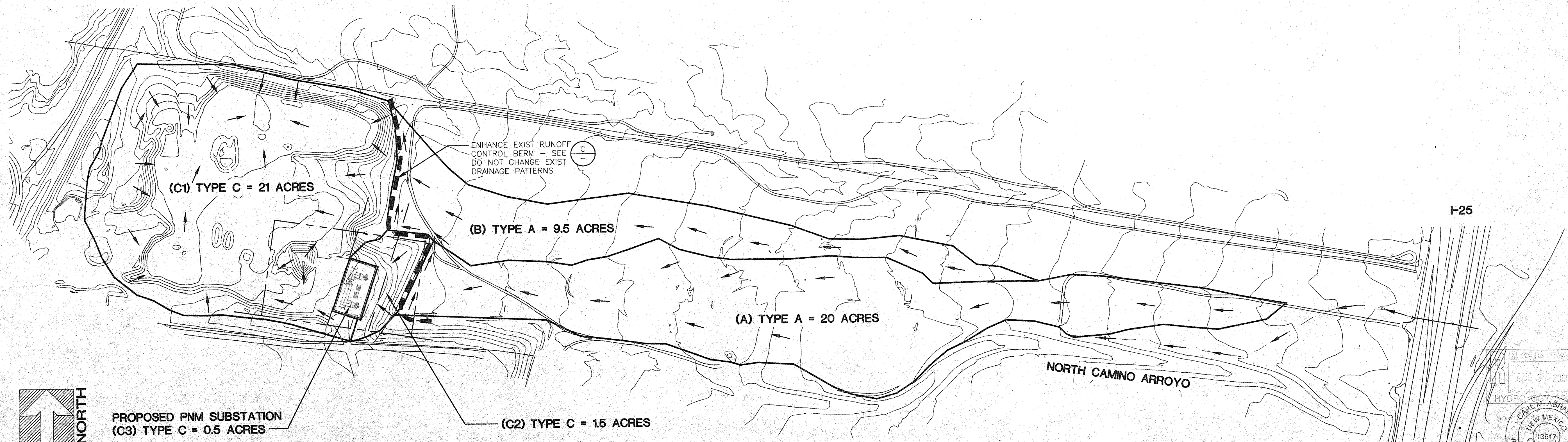
TYPICAL RUNOFF CONTROL BERM MODIFICATION **C**
2&3



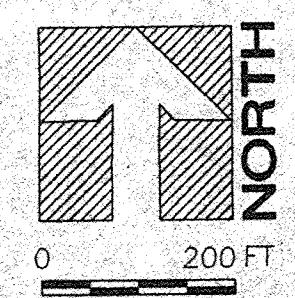
RIPRAP SHALL BE FREE FROM ORGANIC MATERIALS AND OTHER DELETERIOUS MATERIAL. CONCRETE RUBBLE WITHOUT METAL DEBRIS SHALL BE ACCEPTABLE. RIPRAP SHALL BE SIZED AS FOLLOWS:

U.S. STANDARD SIEVE SIZE (IN)	% PASSING BY WEIGHT
3	100
2	25-100
1-1/2	0-40
1	0-20
1/2	0-5

TYPICAL DRAINAGE SWALE **D**
2



WATERSHED BASIN PLAN **E**



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FILE NAME: S:\PROJECTS\9019\ACAD\9019104.DWG

DESIGNED BY: CMA
DRAWN BY: CMA
CHECKED BY: WFM
DATE: 8/31/00

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ALBUQUERQUE, NM 87109
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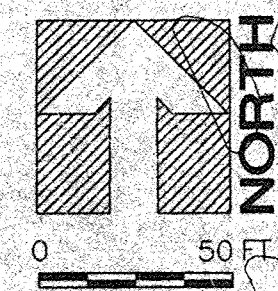
SPCE
CENTRAL NEW MEXICO
PNM ROY SUBSTATION
DETAILS AND WATERSHED BASIN PLAN

JOB NO.
9019

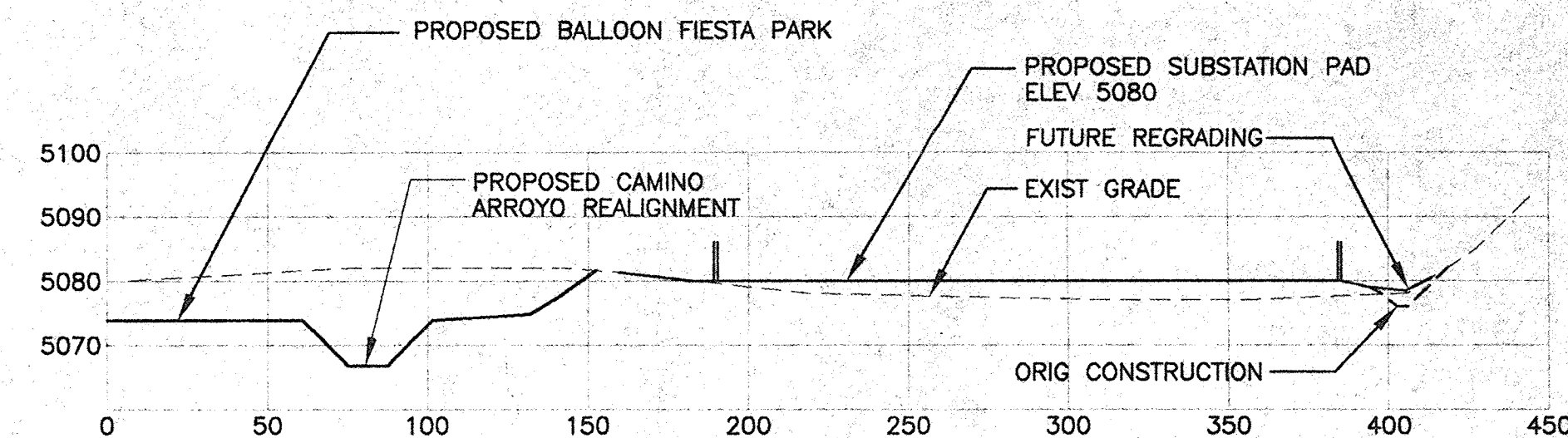
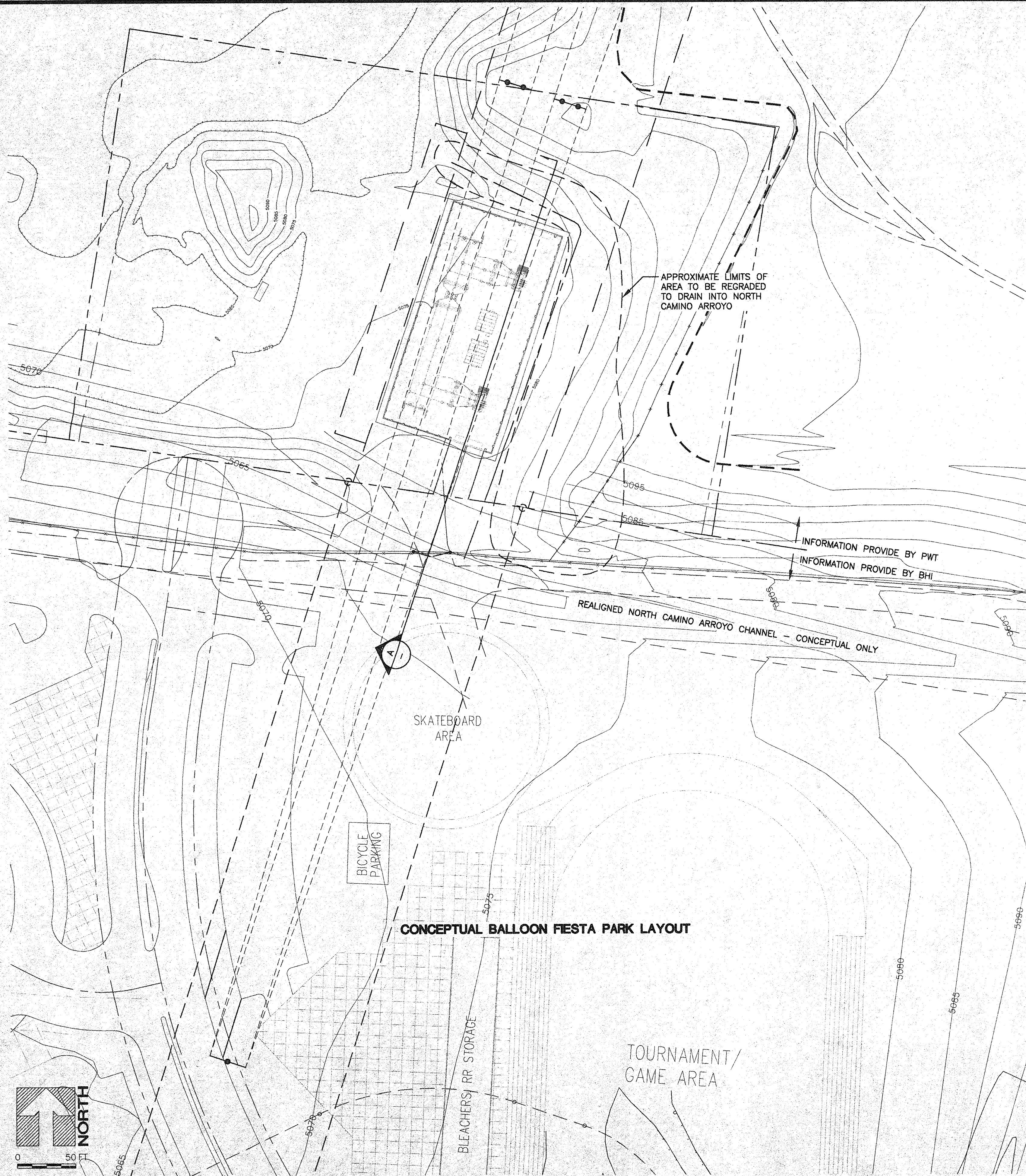
SHEET
3 of 4

STAMP: CARL M. ABRAMS, NEW MEXICO, 13617, 9/1/00, PROFESSIONAL ENGINEER

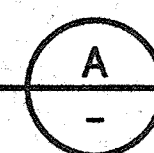
REF: S:\PROJECTS\9019\ACAD\INCOMING\BOHANNAN-HUSTON\BPP-NE-REALIGN



IF THIS BAR IS NOT 1" LONG,
ADJUST SCALES ACCORDINGLY



TYPICAL ACCESS ROAD SECTION



HOR 1"=50'
VER 1"=25'

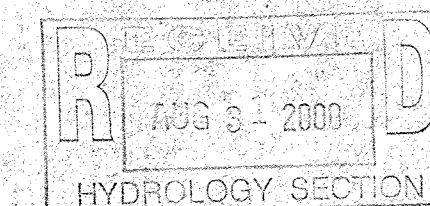
GENERAL NOTES:

ALL COORDINATE AND ELEVATION INFORMATION FOR SITE DESIGN BASED ON SURVEY DATA PROVIDED BY PACIFIC WESTERN TECHNOLOGIES MAY 8, 1999.

HORIZONTAL (N&E) COORDINATES REPRESENT NEW MEXICO STATE PLANE NAD 83.

VERTICAL COORDINATES REPRESENT ELEVATION FEET MEAN SEA LEVEL (FTMSL) NAVD88.

BALLOON FIESTA CONCEPTUAL LAYOUT PROVIDED BY BOHANNAN-HUSTON AND ASSOCIATES. BHI CONTOURS BASED ON NGVD29 DATUM, AND MUST BE RAISED 2.8' TO MATCH PWT SURVEY DATA.



SPCE
CENTRAL NEW MEXICO
PNM ROY SUBSTATION
CONCEPTUAL FUTURE SITE PLAN

JOB NO.

9019

SHEET

4 of 4

Daniel B. Stephens & Associates, Inc.
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8020 ACADEMY NE SUITE 100
ALBUQUERQUE, NM 87110
(505) 822-9400

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CMA
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CHECKED BY:
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DATE: 8/31/00

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