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NEVADA NUCLEAR WASTE STORAGE INVESTIGATIONS PROJECT

REVISION/CHANGE RECORD

DOCUMENT NUMBER: NVO-309

DOCUMENT TITLE: EXPLORATORY SHAFT FACILITY SUBSYSTEM DESIGN REQUIREMENTS DOCUMENT, VOL. 1 & 2

DATE/ REVISION NUMBER	C/SCR NUMBER	REVISION/CHANGE DESCRIPTION	PAGES AFFECTED
Rev. 3	88/021	Appendix A, ESF Sketches (cover sheet)	N/A
	88/021	Appendix B, Test Integrated Data System (IDS) Requirements (cover sheet)	N/A
Rev. 4	88/022	Appendix A, ESF Drawings R07048A (sheets 1-15)	N/A

8806270312

102
NH03
Wm-11

DOCUMENT TRANSMITTAL RECORD

N-QA-022
11/87

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REMOVE - Revision/Change Record located in front of the Tab marked Table of Contents, in Vol. 1 of the SDRD.

INSERT - Updated Revision/Change Record in front of the Tab marked Table of Contents, in Vol. 1 of the SDRD.

REMOVE - Old sketches 3, 4, and 5 from Appendix A of the ESF SDRD, Vol. 2.

INSERT - Nuclear Waste Repository In Tuff Subsurface Facility Conceptual Design Drawings R07048A, sheets 1 through 15, behind sketch 2 in Appendix A, of the ESF SDRD, Vol. 2.

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74	KETON BEALL	SAIC
75	JAMES MCCONVILLE	SAIC
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77	H. N. KALIA	LANL/VBC/LV
78	ALVIN LANGSTAFF	SAIC
79	DOCUMENT CONTROL (SP)	SAIC
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82	DOCUMENT CONTROL (SP)	SAIC
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85	DOCUMENT CONTROL (SP)	SAIC
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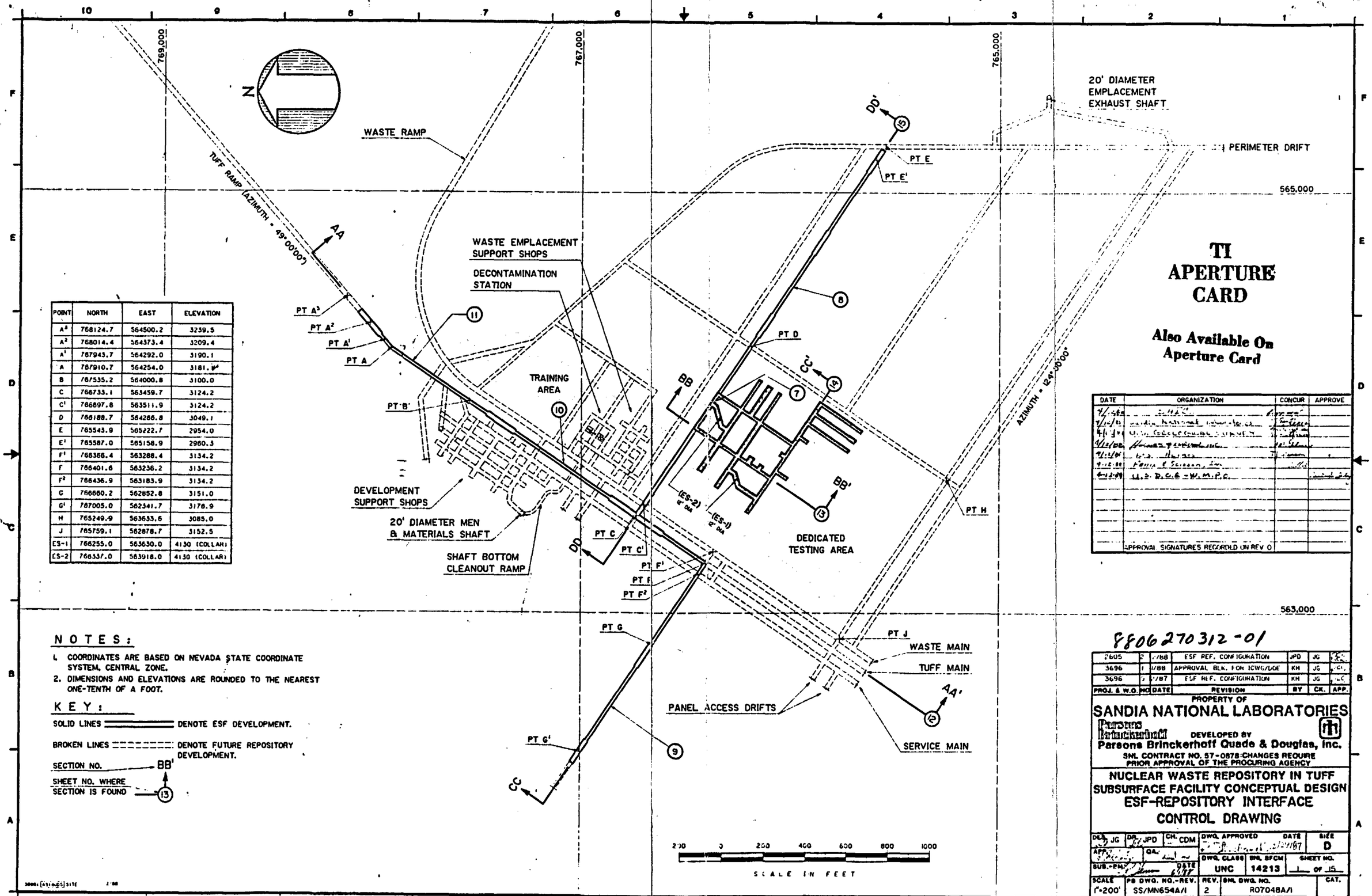

POINT	NORTH	EAST	ELEVATION
A³	768124.7	564500.2	3239.5
A²	768014.4	564373.4	3209.4
A¹	767943.7	564292.0	3190.1
A	767910.7	564254.0	3181.[illegible]
B	767535.2	564000.8	3100.0
C	766733.1	563459.7	3124.2
C¹	766697.8	563511.9	3124.2
D	766188.7	564266.8	3049.1
E	765543.9	565222.7	2954.0
E¹	765587.0	565158.9	2960.3
F¹	766366.4	563288.4	3134.2
F	766401.6	563236.2	3134.2
F²	766436.9	563183.9	3134.2
G	766660.2	562852.8	3151.0
G¹	767005.0	562341.7	3176.9
H	765249.9	563633.6	3085.0
J	765759.1	562878.7	3152.5
ES-1	766255.0	563630.0	4130 (COLLAR)
ES-2	766337.0	563918.0	4130 (COLLAR)

NOTES:

1. COORDINATES ARE BASED ON NEVADA STATE COORDINATE SYSTEM, CENTRAL ZONE.
2. DIMENSIONS AND ELEVATIONS ARE ROUNDED TO THE NEAREST ONE-TENTH OF A FOOT.

KEY:

SOLID LINES ═══ DENOTE ESF DEVELOPMENT.

BROKEN LINES - - - - DENOTE FUTURE REPOSITORY DEVELOPMENT.

SECTION NO. — BB'

SHEET NO. WHERE SECTION IS FOUND — 13

TI APERTURE CARD

Also Available On Aperture Card

DATE	ORGANIZATION	CONCUR	APPROVE
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	U.S. GEOLOGICAL SURVEY	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	
[illegible]	U.S. D.O.E. - W.M.P.O.		[illegible]
	APPROVAL SIGNATURES RECORDED ON REV 0		

8806270312-01

PROJ. & W.O.	NO	DATE	REVISION	BY	CK.	APP.
2605	2	[illegible]/88	ESF REF. CONFIGURATION	JPD	JG	[illegible]
3696	1	[illegible]/88	APPROVAL BLK. FOR ICWG/DOE	KH	JG	[illegible]
3696	0	[illegible]/87	ESF REF. CONFIGURATION	KH	JG	[illegible]

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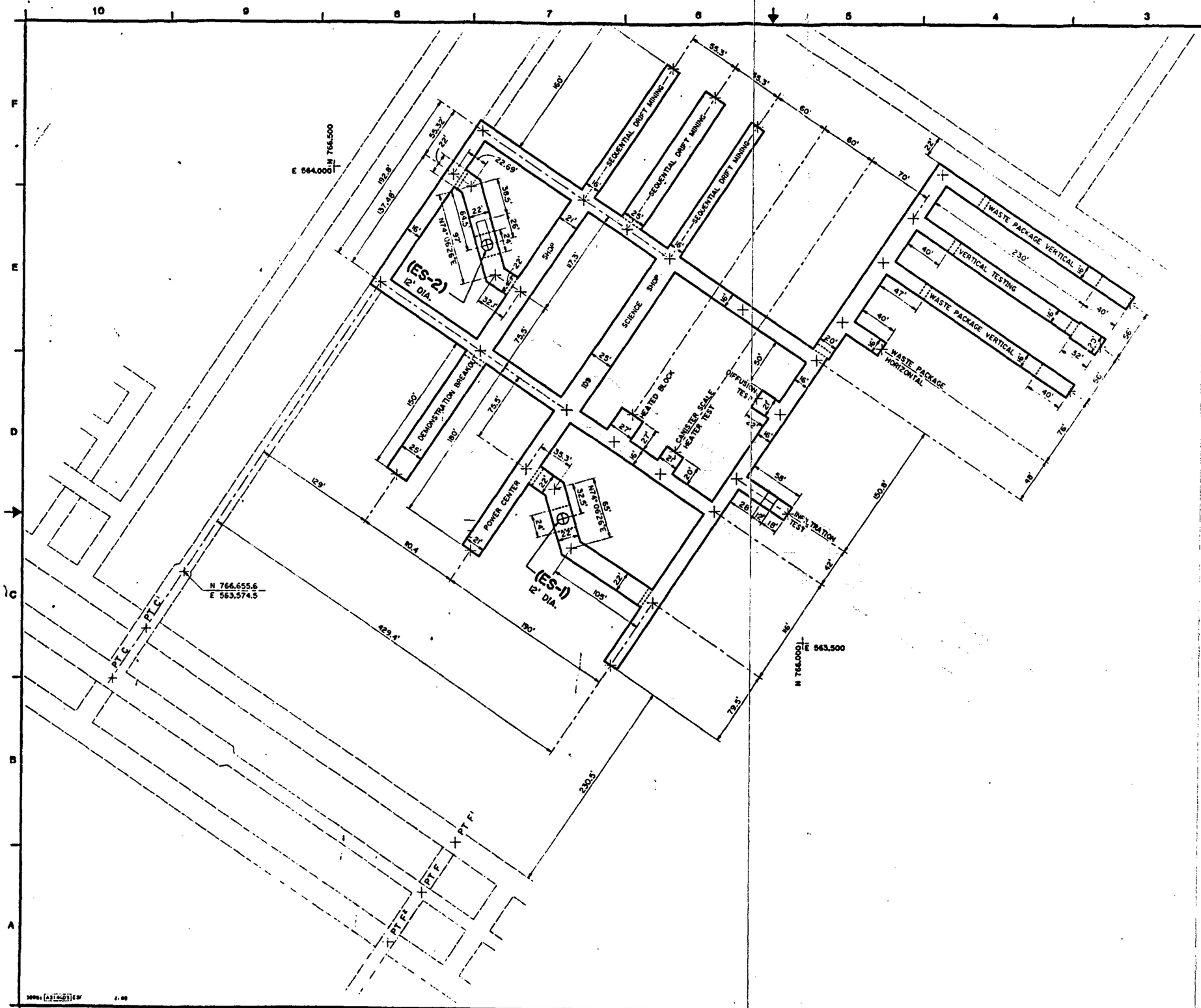
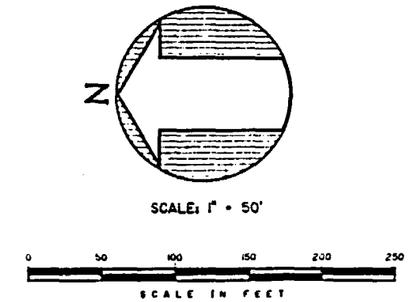
SNL CONTRACT NO. 57-0878: CHANGES REQUIRE PRIOR APPROVAL OF THE PROCURING AGENCY

NUCLEAR WASTE REPOSITORY IN TUFF
SUBSURFACE FACILITY CONCEPTUAL DESIGN
ESF-REPOSITORY INTERFACE
CONTROL DRAWING

DES. JG	DR. JPD	CH. CDM	DWG. APPROVED	DATE	SIZE
APP.	QA.		[illegible]	[illegible]/87	D
SUB.-PM.	DATE [illegible]		DWG. CLASS UNC	SNL BFCM 14213	SHEET NO. 1 OF 15
SCALE 1"=200'	PB DWG. NO.-REV. SS/MN654A/1		REV. 2	SNL DWG. NO. R07048A/1	CAT.





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NOTE:

1. ALL DRIFTS AND CROSS-CUTS ARE 14 FT. HIGH EXCEPT ON SECTIONS THRU ES-1 AND ES-2 STATIONS. TRANSITION ZONES PAST SHAFT STATIONS WHICH ARE 18' HIGH AND PORTIONS OF VERTICAL EMPLACEMENT AND TESTING ROOMS WHICH ARE 22' HIGH. SEE DRIFT CROSS-SECTIONS ON ES-1 AND ES-2.
2. COORDINATES ARE BASED ON NEVADA STATE COORDINATE SYSTEM, CENTRAL ZONE.

8806270312-02

PROJ. & W.O.	NO	DATE	REVISION	BY	CK.	APP.
2605	1	2/88	ESF REF. CONFIGURATION	JPD	JG	RGS
3696	0	2/87	ESF REF. CONFIGURATION	KH	JG	RGS

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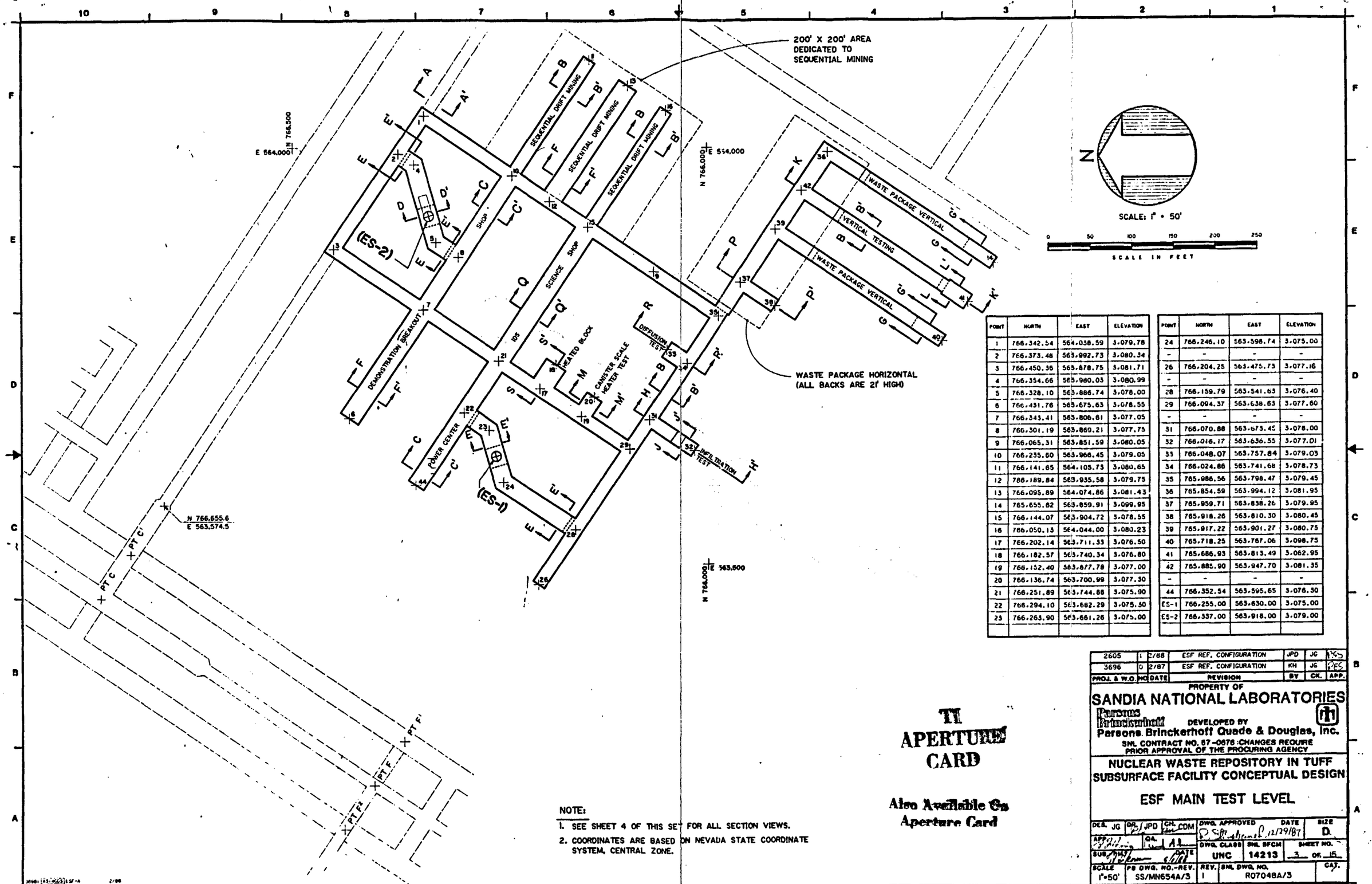
NUCLEAR WASTE REPOSITORY IN TUFF
SUBSURFACE FACILITY CONCEPTUAL DESIGN

ESF MAIN TEST LEVEL

DES. JG	DR. JPD	CH. CDM	DWG. APPROVED	DATE 12/29/87	SIZE D
APP.	RA.		DWG. CLASS UNC	SNL SFCM 14213	SHEET NO. 2 OF 15
SUBMITTAL	DATE				
SCALE 1"=50'	PB DWG. NO.-REV. SS/MN654A/2		REV. 1	SNL DWG. NO. R07048A/2	CAT.



POINT	NORTH	EAST	ELEVATION
1	766,342.54	564,038.59	3,079.78
2	766,373.48	563,992.73	3,080.34
3	766,450.36	563,878.75	3,081.71
4	766,354.66	563,980.03	3,080.99
5	766,328.10	563,886.74	3,078.00
6	766,431.76	563,675.63	3,078.55
7	766,343.41	563,806.61	3,077.05
8	766,301.19	563,869.21	3,077.75
9	766,065.31	563,851.59	3,080.05
10	766,235.60	563,966.45	3,079.05
11	766,141.65	564,105.73	3,080.65
12	766,189.84	563,935.58	3,079.75
13	766,095.89	564,074.86	3,081.43
14	765,655.62	563,859.91	3,099.95
15	766,144.07	563,904.72	3,078.55
16	766,050.13	564,044.00	3,080.23
17	766,202.14	563,711.33	3,076.50
18	766,182.57	563,740.34	3,076.80
19	766,152.40	563,877.78	3,077.00
20	766,136.74	563,700.99	3,077.30
21	766,251.89	563,744.88	3,075.90
22	766,294.10	563,682.29	3,075.30
23	766,263.90	563,661.26	3,075.00

POINT	NORTH	EAST	ELEVATION
24	766,246.10	563,598.74	3,075.00
-	-	-	-
26	766,204.25	563,475.73	3,077.16
-	-	-	-
28	766,159.79	563,541.63	3,076.40
29	766,094.37	563,638.63	3,077.60
-	-	-	-
31	766,070.88	563,673.45	3,078.00
32	766,016.17	563,636.55	3,077.01
33	766,048.07	563,757.84	3,079.03
34	766,024.86	563,741.68	3,078.73
35	765,986.56	563,798.47	3,079.45
36	765,854.59	563,994.12	3,081.95
37	765,959.71	563,838.26	3,079.95
38	765,918.26	563,810.30	3,080.45
39	765,917.22	563,901.27	3,080.75
40	765,718.25	563,767.06	3,098.75
41	765,686.93	563,813.49	3,062.95
42	765,885.90	563,947.70	3,081.35
-	-	-	-
44	766,352.54	563,595.65	3,076.30
ES-1	766,255.00	563,630.00	3,075.00
ES-2	766,337.00	563,918.00	3,079.00

PROJ. & W.O. NO	DATE	REVISION	BY	CK.	APP.
2605	1	2/88	ESF REF. CONFIGURATION	JPD	JG	PES
3696	0	2/87	ESF REF. CONFIGURATION	KH	JG	PES

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SNL CONTRACT NO. 87-0676 :CHANGES REQUIRE PRIOR APPROVAL OF THE PROCURING AGENCY

NUCLEAR WASTE REPOSITORY IN TUFF SUBSURFACE FACILITY CONCEPTUAL DESIGN

ESF MAIN TEST LEVEL

DES. JG	DR. JPD	CH. CDM	DWG. APPROVED	DATE 12/29/87	SIZE D
APPR.	QA.		DWG. CLASS UNC	SNL SFCM 14213	SHEET NO. 3 OF 15
SUB. PROJ.	DATE				
SCALE 1"=50'	PB DWG. NO.-REV. SS/MN654A/3	REV. 1	SNL DWG. NO. R07048A/3		CAT.

NOTE:
1. SEE SHEET 4 OF THIS SET FOR ALL SECTION VIEWS.
2. COORDINATES ARE BASED ON NEVADA STATE COORDINATE SYSTEM, CENTRAL ZONE.

TI APERTURE CARD

Also Available On Aperture Card

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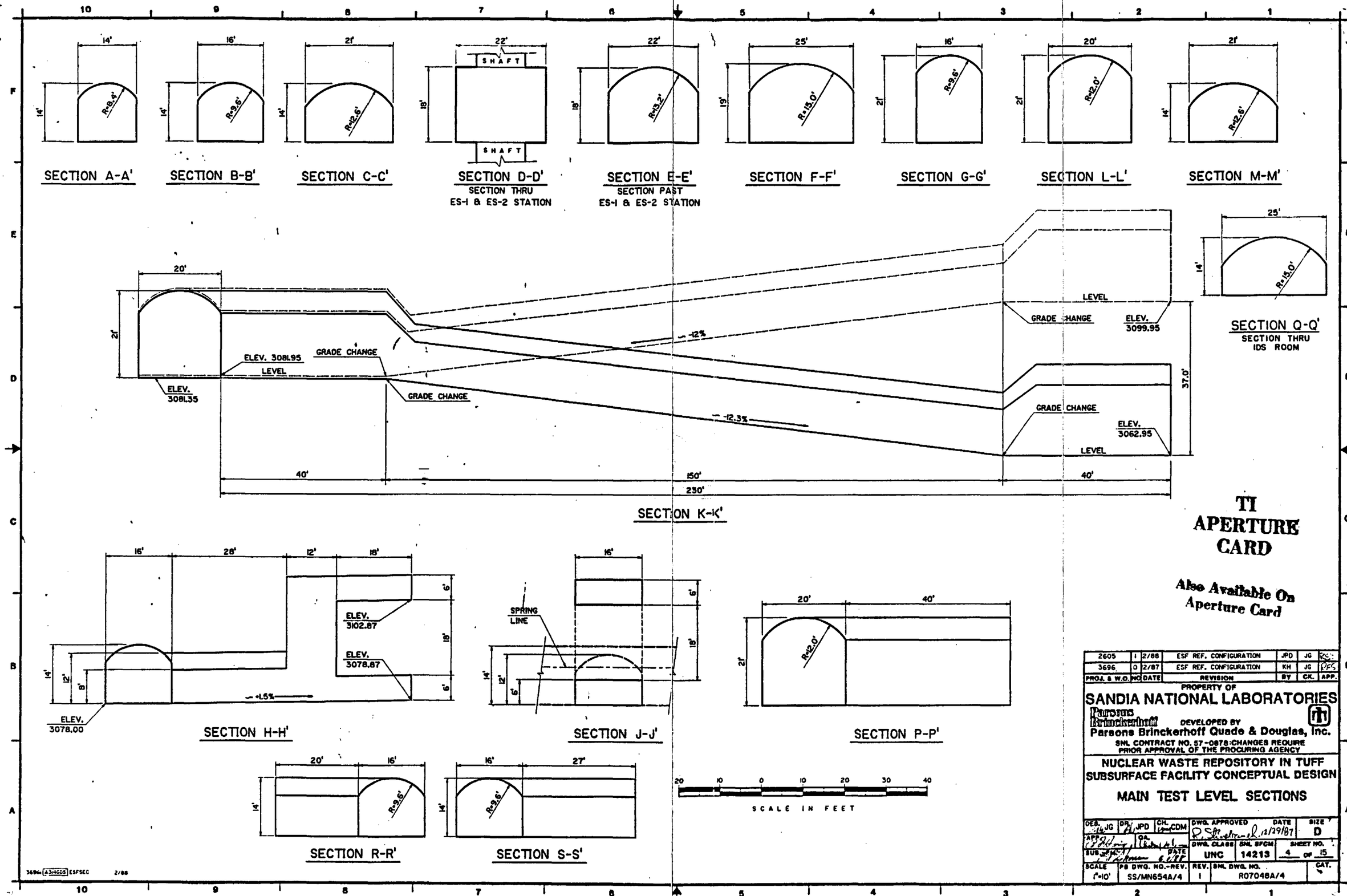

TI APERTURE CARD

Also Available On Aperture Card

PROJ. & W.O.	NO	DATE	REVISION	BY	CK.	APP.
2605	1	2/88	ESF REF. CONFIGURATION	JPD	JG	
3696	0	2/87	ESF REF. CONFIGURATION	KH	JG	

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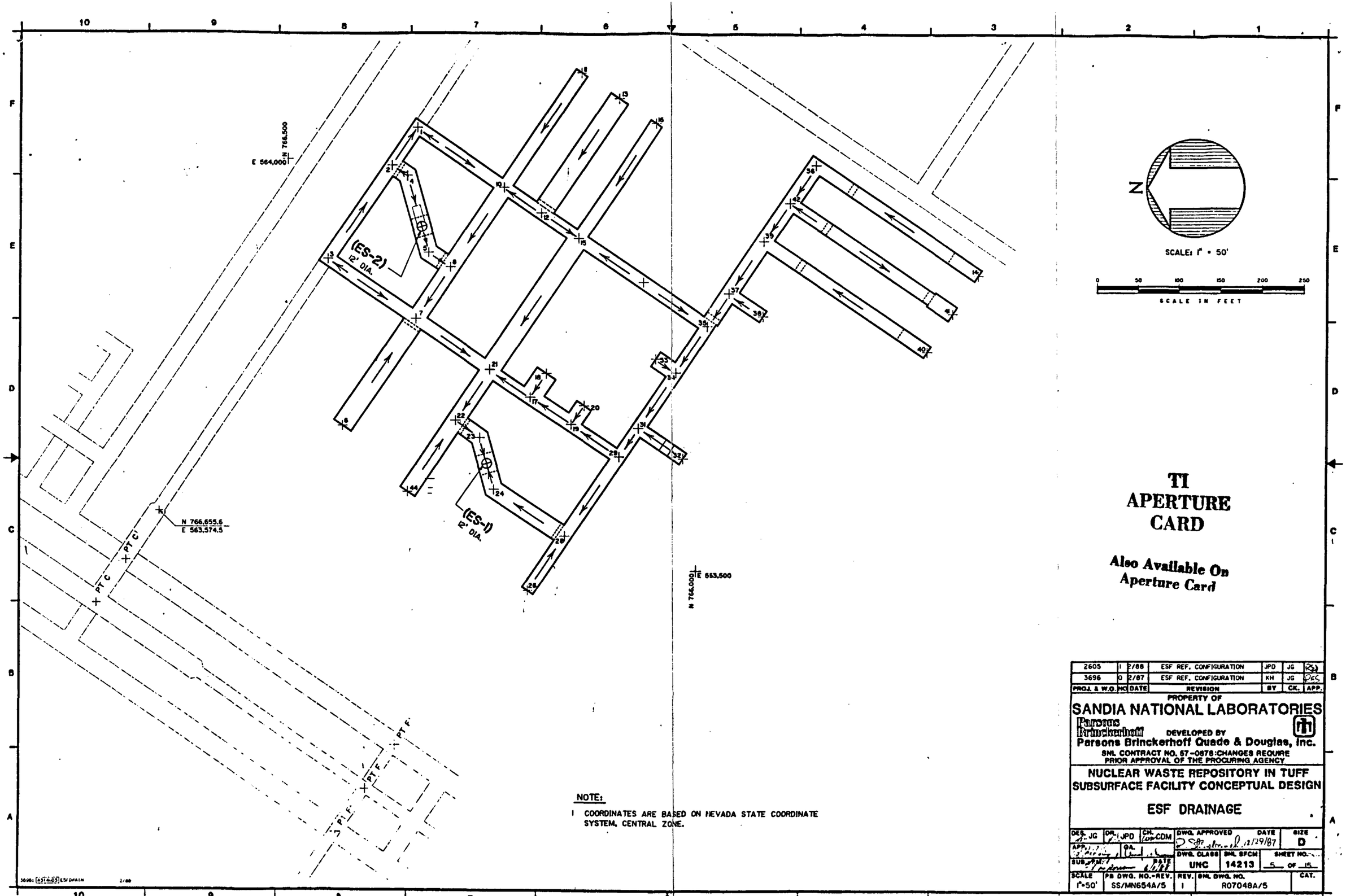
NUCLEAR WASTE REPOSITORY IN TUFF
SUBSURFACE FACILITY CONCEPTUAL DESIGN

MAIN TEST LEVEL SECTIONS

DES. JG	DR. JPD	CH. CDM	DWG. APPROVED	DATE 12/29/87	SIZE D
APP.	QA.		DWG. CLASS UNC	SNL SFCM 14213	SHEET NO. 4 OF 15
SUB.	DATE 6/1/88				
SCALE 1"=10'	PB DWG. NO.-REV. SS/MN654A/4	REV. 1	SNL DWG. NO. R07048A/4		CAT.

3696 A3/4GDS ESFSEC 2/88

8806270312-04



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NOTE:

1 COORDINATES ARE BASED ON NEVADA STATE COORDINATE SYSTEM, CENTRAL ZONE.

PROJ. & W.O.	NO	DATE	REVISION	BY	CK.	APP.
2605	1	2/88	ESF REF. CONFIGURATION	JPD	JG	
3696	0	2/87	ESF REF. CONFIGURATION	KH	JG	

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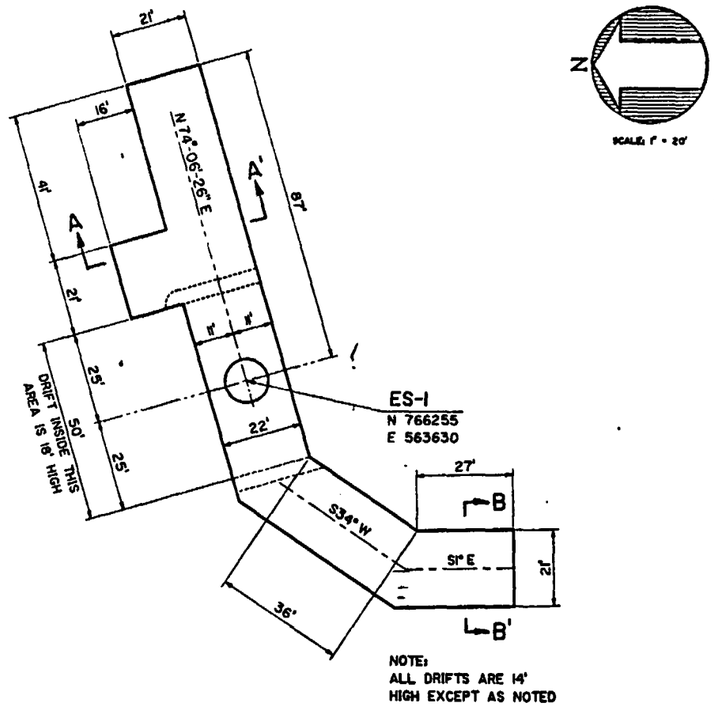
NUCLEAR WASTE REPOSITORY IN TUFF
SUBSURFACE FACILITY CONCEPTUAL DESIGN

ESF DRAINAGE

DES. JG	DR. JPD	CH. CDM	DWG. APPROVED	DATE 12/29/87	SIZE D
APP.	QA.		DWG. CLASS UNC	SNL SFCM 14213	SHEET NO. 5 OF 15
SUB. PM.	DATE 6/1/88				
SCALE 1"=50'	PB DWG. NO.-REV. SS/MN654A/5		REV. 1	SNL DWG. NO. R07048A/5	CAT.

8806270312-05

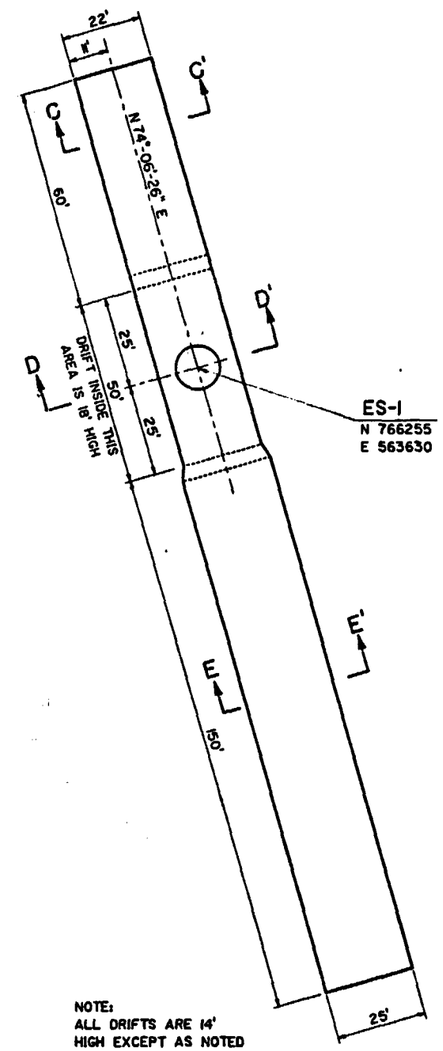


NOTE:
ALL DRIFTS ARE 14' HIGH EXCEPT AS NOTED

CALICO HILLS DRILL ROOM
ELEVATION = 2765'

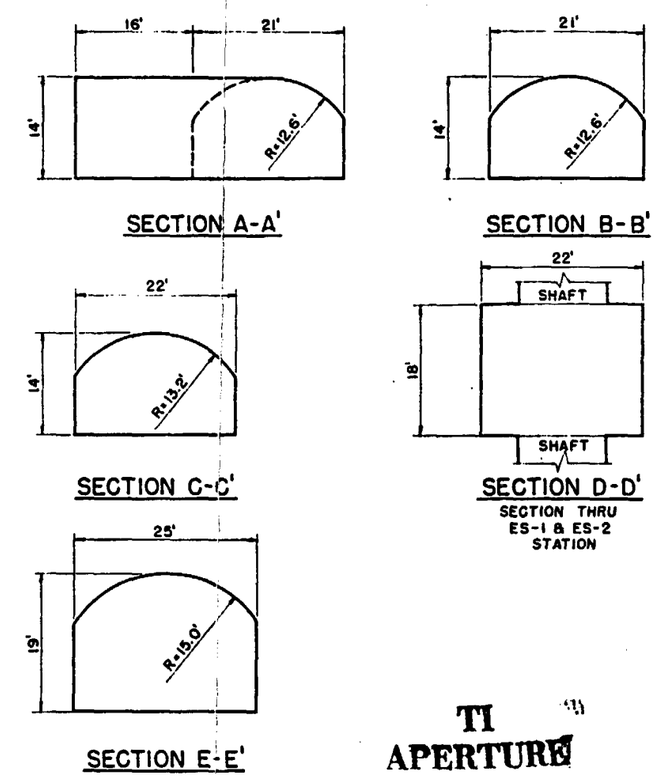
NOTE:

1 COORDINATES ARE BASED ON NEVADA STATE COORDINATE SYSTEM, CENTRAL ZONE.



NOTE:
ALL DRIFTS ARE 14' HIGH EXCEPT AS NOTED

UPPER DEMONSTRATION BREAKOUT ROOM
ELEVATION = 3530'



TI APERTURE CARD

Also Available On Aperture Card

40 20 0 20 40 60 80
SCALE IN FEET

PROJ. & W.O.	NO	DATE	REVISION	BY	CK.	APP.
2605	1	2/88	ESF REF. CONFIGURATION	JPD	JG	RES
3696	0	12/87	ESF REF. CONFIGURATION	KH	JG	RES

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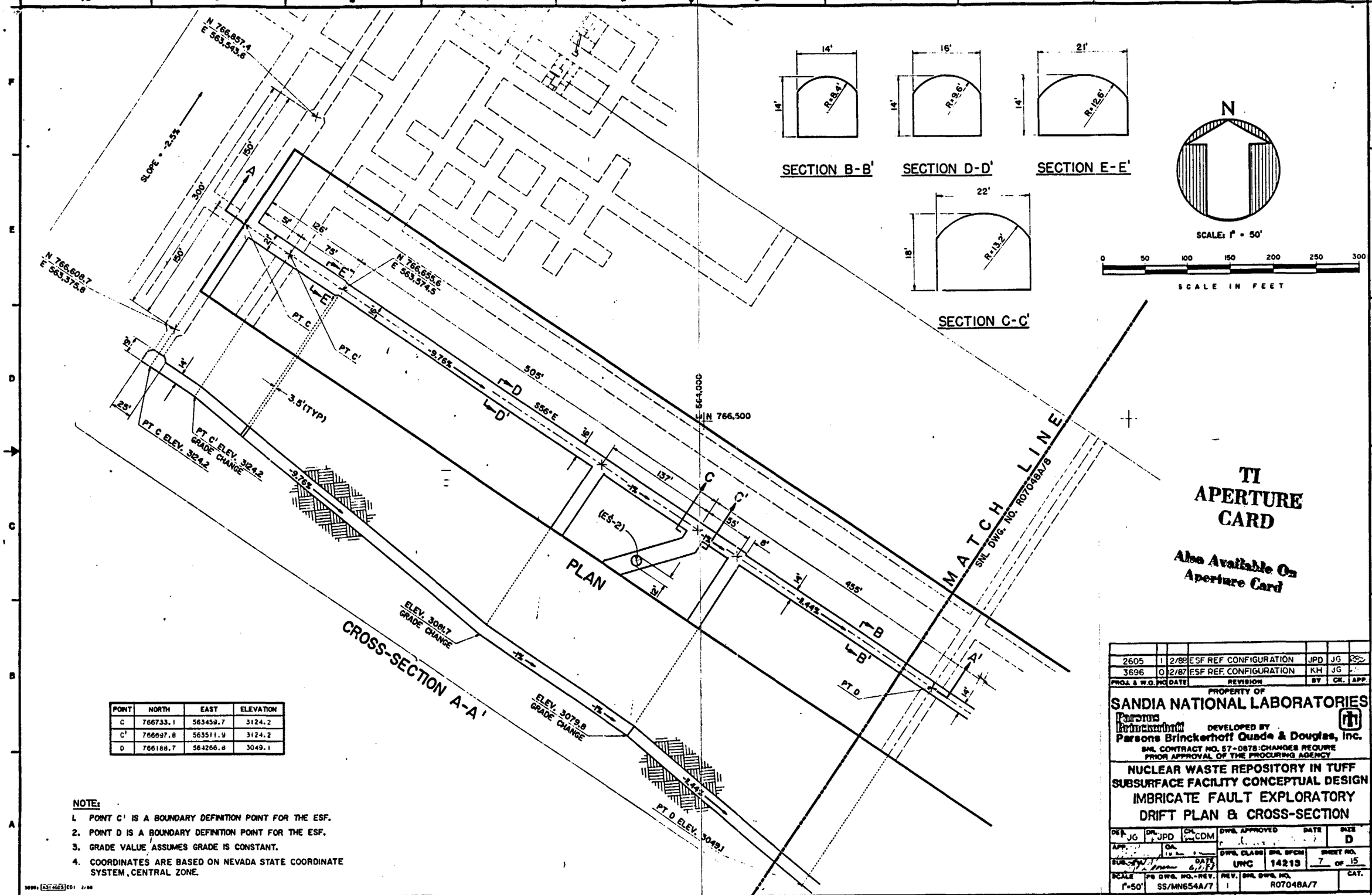
NUCLEAR WASTE REPOSITORY IN TUFF
SUBSURFACE FACILITY CONCEPTUAL DESIGN
UPPER AND LOWER TEST LEVELS

DES.	DR.	CH.	DWG. APPROVED	DATE	SIZE
JG	JPD	CDM	R. Strubbangh	12/29/87	D
APP.	BA.		DWG. CLASS	SNL SFCM	SHEET NO.
SUB. FM.	DATE		UNC	14213	6 OF 15
SCALE	PB DWG. NO.-REV.	REV.	SNL DWG. NO.		CAT.
1" = 20	SS/MN654A/6	1	R07048A/6		

3696: A314GDS ES1ROOMS 2/88

8806270312-06



POINT	NORTH	EAST	ELEVATION
C	766733.1	563459.7	3124.2
C'	766697.8	563511.9	3124.2
D	766188.7	564266.8	3049.1

NOTE:

1. POINT C' IS A BOUNDARY DEFINITION POINT FOR THE ESF.
2. POINT D IS A BOUNDARY DEFINITION POINT FOR THE ESF.
3. GRADE VALUE ASSUMES GRADE IS CONSTANT.
4. COORDINATES ARE BASED ON NEVADA STATE COORDINATE SYSTEM, CENTRAL ZONE.

PROJ. & W.O.	NO	DATE	REVISION	BY	CK.	APP.
2605	1	2/88	ESF REF. CONFIGURATION	JPD	JG	
3696	0	2/87	ESF REF. CONFIGURATION	KH	JG	

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SNL CONTRACT NO. 57-0878: CHANGES REQUIRE PRIOR APPROVAL OF THE PROCURING AGENCY

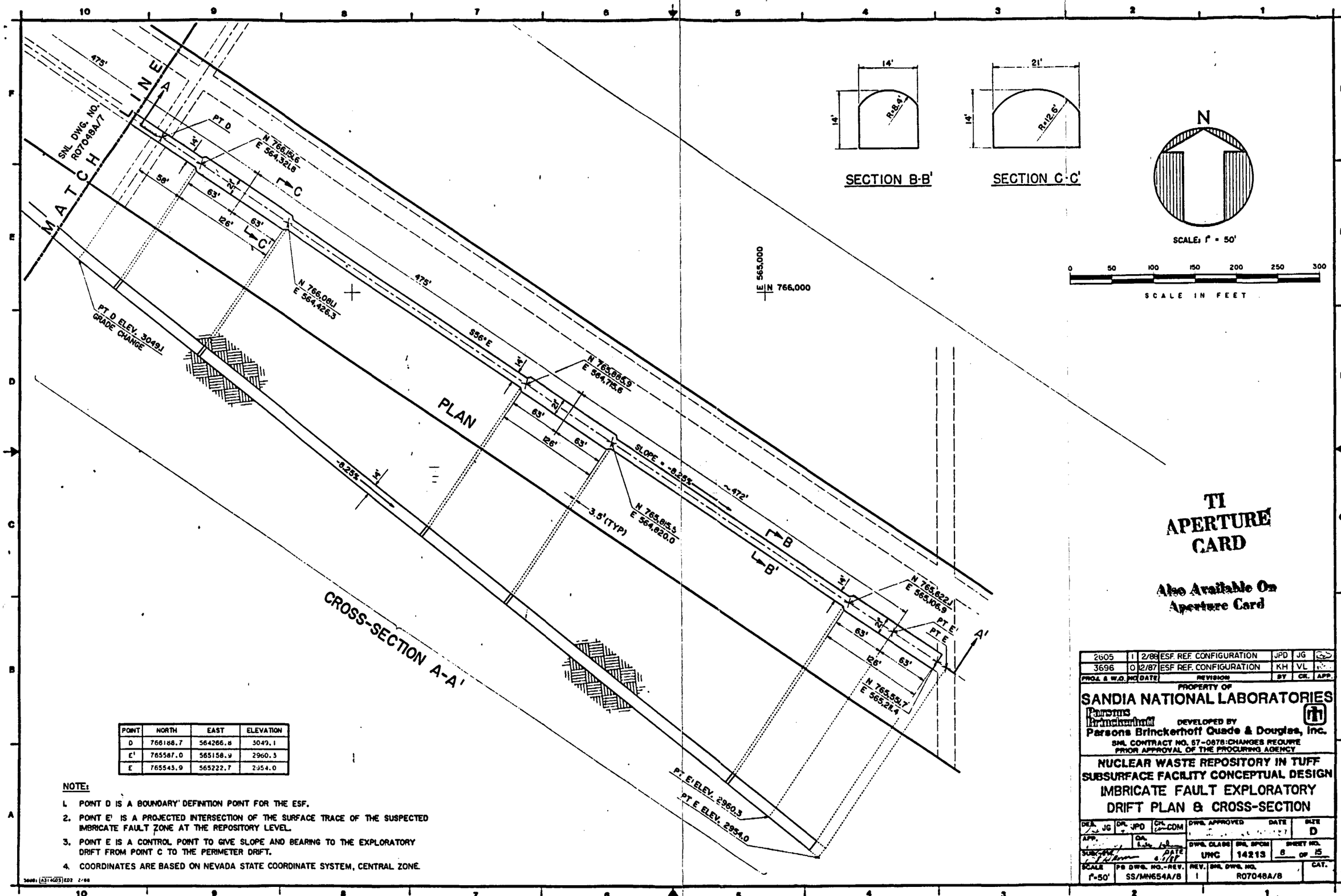
NUCLEAR WASTE REPOSITORY IN TUFF
SUBSURFACE FACILITY CONCEPTUAL DESIGN
IMBRICATE FAULT EXPLORATORY
DRIFT PLAN & CROSS-SECTION

DES. JG	DR. JPD	CK. CDM	DWG. APPROVED	DATE	SIZE D
APP.	QA.		DWG. CLASS UNC	SNL SPCM 14213	SHEET NO. 7 OF 15
SUB.	DATE				
SCALE 1"=50'	PB DWG. NO.-REV. SS/MN654A/7	REV. 1	SNL DWG. NO. R07048A/7		CAT.

TI APERTURE CARD

Also Available On Aperture Card

8806270312-07



POINT	NORTH	EAST	ELEVATION
D	766188.7	564266.8	3049.1
E'	765587.0	565158.9	2960.3
E	765543.9	565222.7	2954.0

NOTE:

1. POINT D IS A BOUNDARY DEFINITION POINT FOR THE ESF.
2. POINT E' IS A PROJECTED INTERSECTION OF THE SURFACE TRACE OF THE SUSPECTED IMBRICATE FAULT ZONE AT THE REPOSITORY LEVEL.
3. POINT E IS A CONTROL POINT TO GIVE SLOPE AND BEARING TO THE EXPLORATORY DRIFT FROM POINT C TO THE PERIMETER DRIFT.
4. COORDINATES ARE BASED ON NEVADA STATE COORDINATE SYSTEM, CENTRAL ZONE.

TI APERTURE CARD

Also Available On Aperture Card

PROJ. & W.O.	NO	DATE	REVISION	BY	CK.	APP.
2605	1	2/88	ESF REF. CONFIGURATION	JPD	JG	
3696	0	12/87	ESF REF. CONFIGURATION	KH	VL	

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SANDIA NATIONAL LABORATORIES
Parsons Brinckerhoff
DEVELOPED BY
Parsons Brinckerhoff Quade & Douglas, Inc.
SNL CONTRACT NO. 57-0878: CHANGES REQUIRE PRIOR APPROVAL OF THE PROCURING AGENCY

NUCLEAR WASTE REPOSITORY IN TUFF
SUBSURFACE FACILITY CONCEPTUAL DESIGN
IMBRICATE FAULT EXPLORATORY
DRIFT PLAN & CROSS-SECTION

DES. JG	DR. JPD	CH. CDM	DWG. APPROVED	DATE	SIZE D
APP.	QA.		DWG. CLASS UNC	SNL SPCM 14213	SHEET NO. 8 OF 15
SUB-SYM.	DATE 6/1/88				
SCALE 1"=50'	PB DWG. NO.-REV. SS/MN654A/8	REV. 1	SNL DWG. NO. R07048A/8		CAT.

3608: A314G03 ED2 2/88

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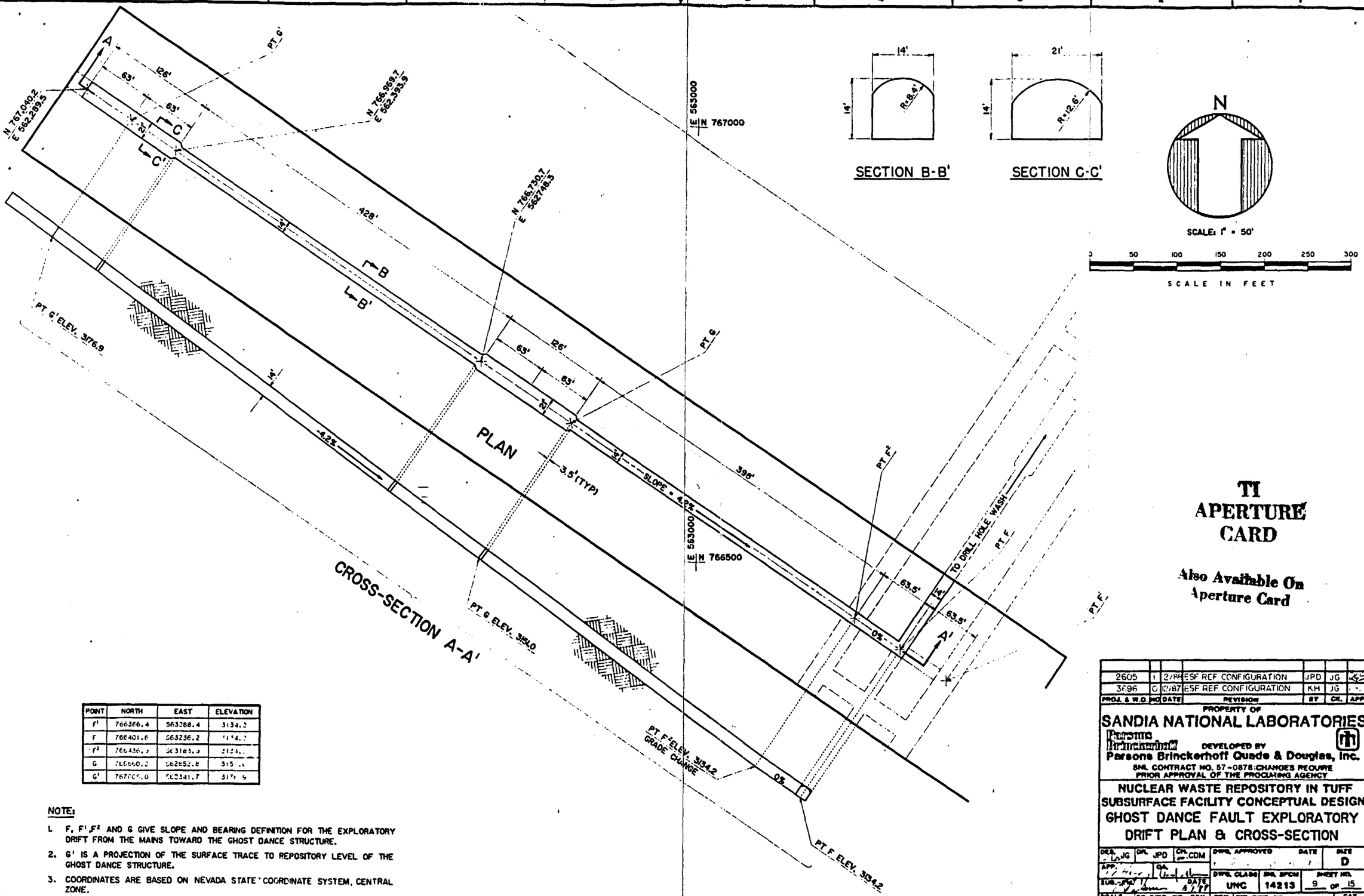

POINT	NORTH	EAST	ELEVATION
F'	766366.4	563288.4	3134.2
F	766401.6	563236.2	[illegible]
F²	766486.[illegible]	563185.[illegible]	[illegible]
G	766660.2	562852.8	[illegible]
G'	767000.0	562341.7	[illegible]

NOTE:

1. F, F', F² AND G GIVE SLOPE AND BEARING DEFINITION FOR THE EXPLORATORY DRIFT FROM THE MAINS TOWARD THE GHOST DANCE STRUCTURE.
2. G' IS A PROJECTION OF THE SURFACE TRACE TO REPOSITORY LEVEL OF THE GHOST DANCE STRUCTURE.
3. COORDINATES ARE BASED ON NEVADA STATE COORDINATE SYSTEM, CENTRAL ZONE.

TI APERTURE CARD

Also Available On Aperture Card

PROJ. & W.O.	NO	DATE	REVISION	BY	CK.	APP.
2605	1	2/88	ESF REF CONFIGURATION	JPD	JG	[illegible]
3696	0	10/87	ESF REF CONFIGURATION	KH	JG	[illegible]

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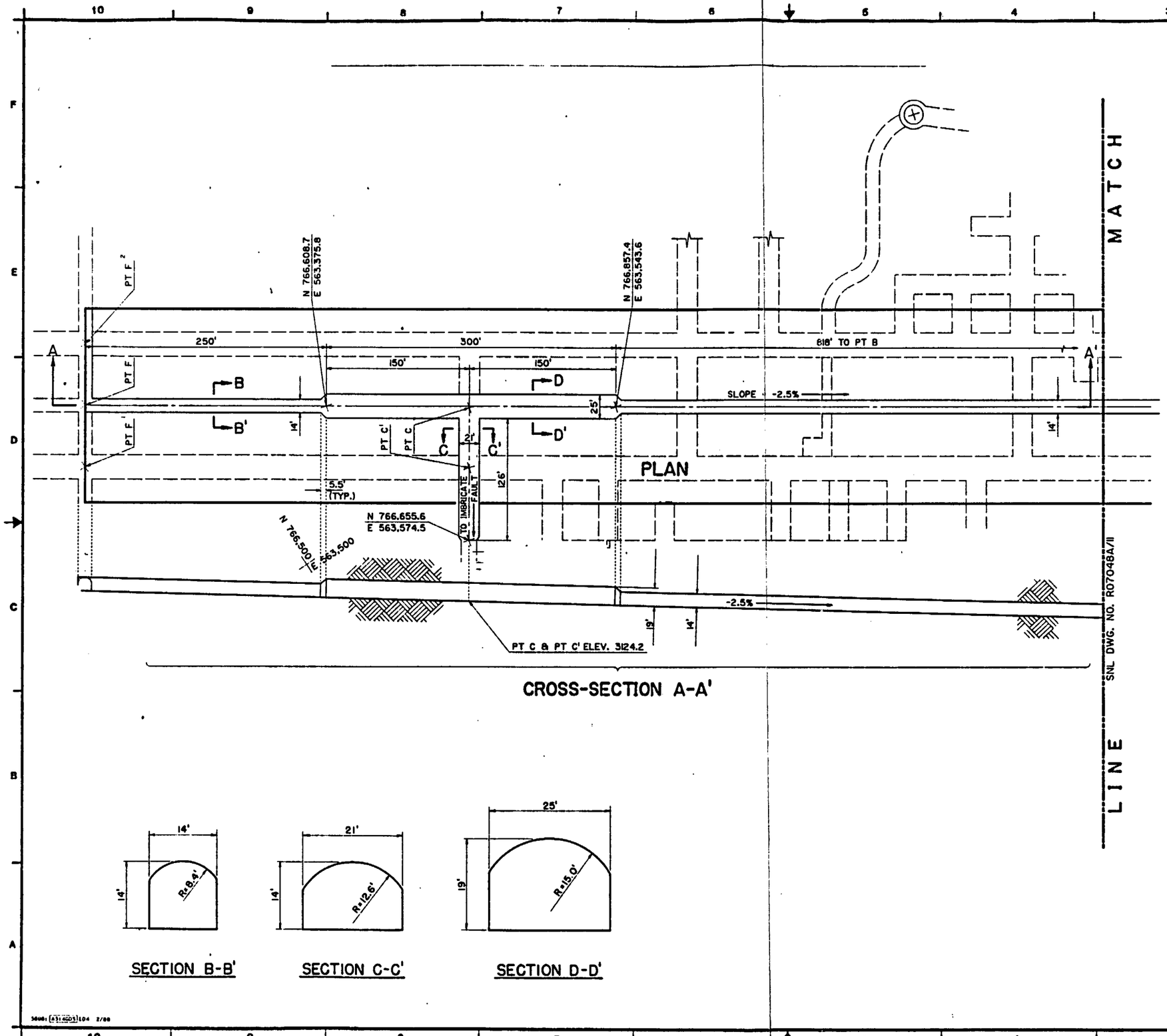
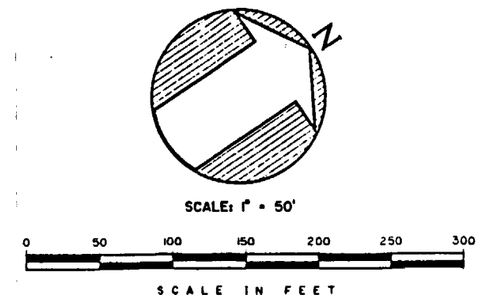
SNL CONTRACT NO. 57-0878: CHANGES REQUIRE PRIOR APPROVAL OF THE PROCURING AGENCY

NUCLEAR WASTE REPOSITORY IN TUFF
SUBSURFACE FACILITY CONCEPTUAL DESIGN
GHOST DANCE FAULT EXPLORATORY DRIFT PLAN & CROSS-SECTION

DES. JG	DR. JPD	CK. CDM	DWG. APPROVED	DATE	SIZE D
APP.	QA		DWG. CLASS UNC	SNL SPCM 14213	SHEET NO. 9 OF 15
SUB.-PM	DATE 4/88				
SCALE 1"=50'	PG DWG. NO.-REV. SS/MN654A/9	REV. 1	SNL DWG. NO. R07048A/9		CAT.

8806270312-09





TI APERTURE CARD

Also Available On Aperture Card

POINT	NORTH	EAST	ELEVATION
C	766733.1	563459.7	3124.2
C'	766697.8	563511.9	3124.2

NOTE:

1. POINT C' IS A BOUNDARY DEFINITION POINT FOR THE ESF.
2. COORDINATES ARE BASED ON NEVADA STATE COORDINATE SYSTEM, CENTRAL ZONE.

PROJ. & W.O.	NO	DATE	REVISION	BY	CK.	APP.
2605	2	2/88	ESF REF. CONFIGURATION	JPD	JG	RES
3696	1	1/88	ADD. DRIFT DETAIL	KH	JG	RES
3696	0	12/87	ESF REF. CONFIGURATION	KH	JG	RES

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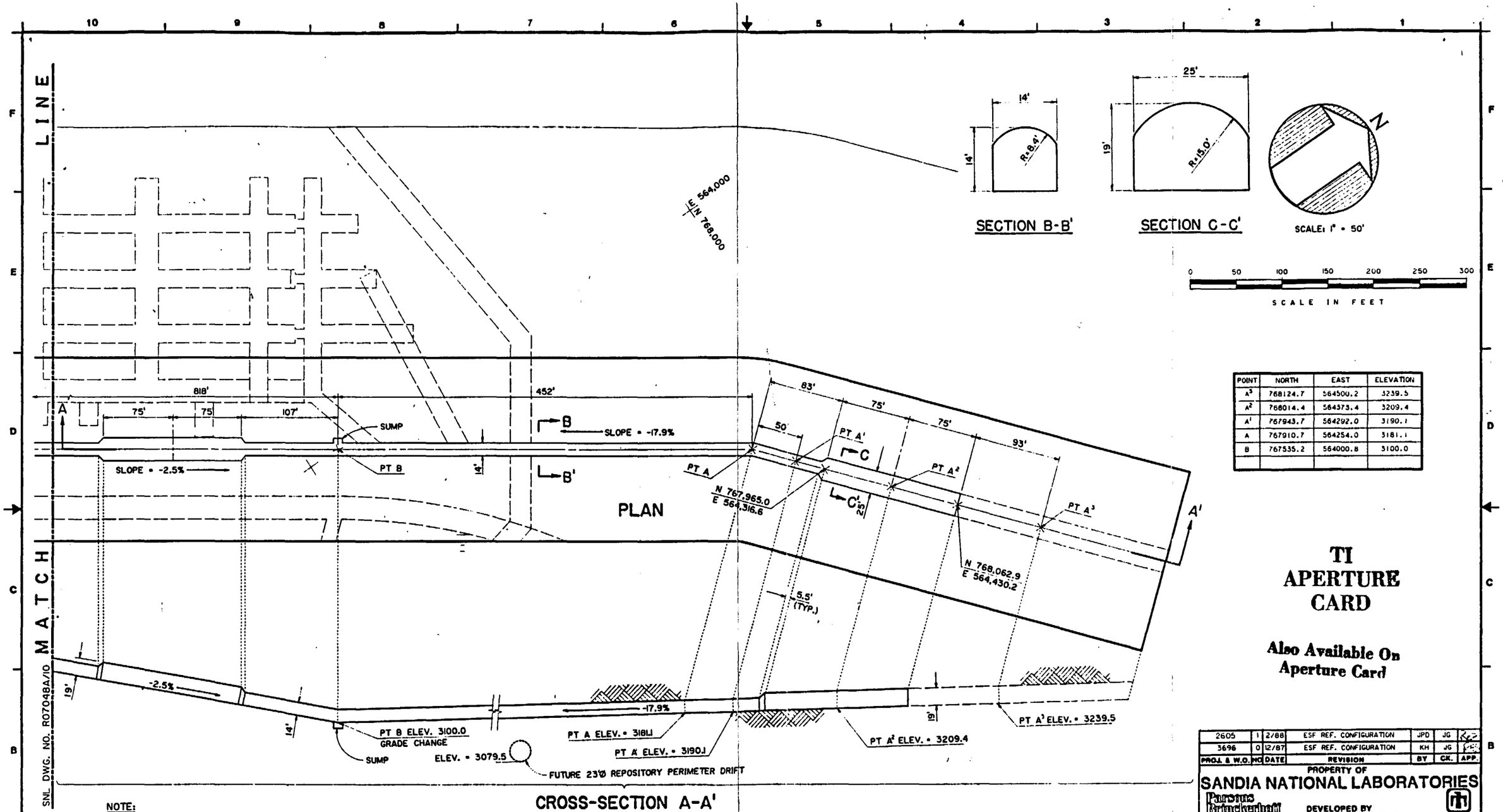
SNL CONTRACT NO. 57-0878 CHANGES REQUIRE PRIOR APPROVAL OF THE PROCURING AGENCY

NUCLEAR WASTE REPOSITORY IN TUFF
SUBSURFACE FACILITY CONCEPTUAL DESIGN
DRILL HOLE WASH EXPLORATORY
DRIFT PLAN & CROSS-SECTION

DES. JG	DR. JPD	CHCDM	DWG. APPROVED	DATE	SIZE
APP.	QA		R. Stuebrunch	12/29/87	D
SUB-PROJ.	DATE 6/1/88		DWG. CLASS UNC	SNL SFCM 14213	SHEET NO. 10 OF 15
SCALE 1"=50'	PB DWG. NO.-REV. SS/MN654A/10		REV. 2	SNL DWG. NO. R07048A/10	CAT.

8806270312-10



POINT	NORTH	EAST	ELEVATION
A³	768124.7	564500.2	3239.5
A²	768014.4	564373.4	3209.4
A'	767943.7	564292.0	3190.1
A	767910.7	564254.0	3181.1
B	767535.2	564000.8	3100.0

TI APERTURE CARD

Also Available On Aperture Card

NOTE:

1. POINT A' IS A BACKSIGHT TO ESTIMATE BEARING AND SLOPE FOR THE TUFF RAMP.
2. POINT A IS THE TURNING POINT FOR TUFF RAMP ALIGNMENT.
3. POINT A² IS THE INTERSECTION OF THE PROJECTED SURFACE TRACE OF THE DRILL HOLE WASH STRUCTURE AND THE TUFF RAMP.
4. POINTS A AND A³ ARE ESTIMATES OF THE EXTREME LOCATIONS AT WHICH THE TUFF RAMP WILL INTERSECT THE DRILL HOLE WASH STRUCTURE.
5. POINT B (POINT OF ENTRY) LOCATES THE SLOPE CHANGE FROM THE REPOSITORY TO THE TUFF RAMP.
6. COORDINATES ARE BASED ON NEVADA STATE COORDINATE SYSTEM, CENTRAL ZONE.

PROJ. & W.O. NO.	DATE	REVISION	BY	CK.	APP.
2605	1 2/88	ESF REF. CONFIGURATION	JPD	JG	
3696	0 12/87	ESF REF. CONFIGURATION	KH	JG	

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SANDIA NATIONAL LABORATORIES
Parsons Brinckerhoff
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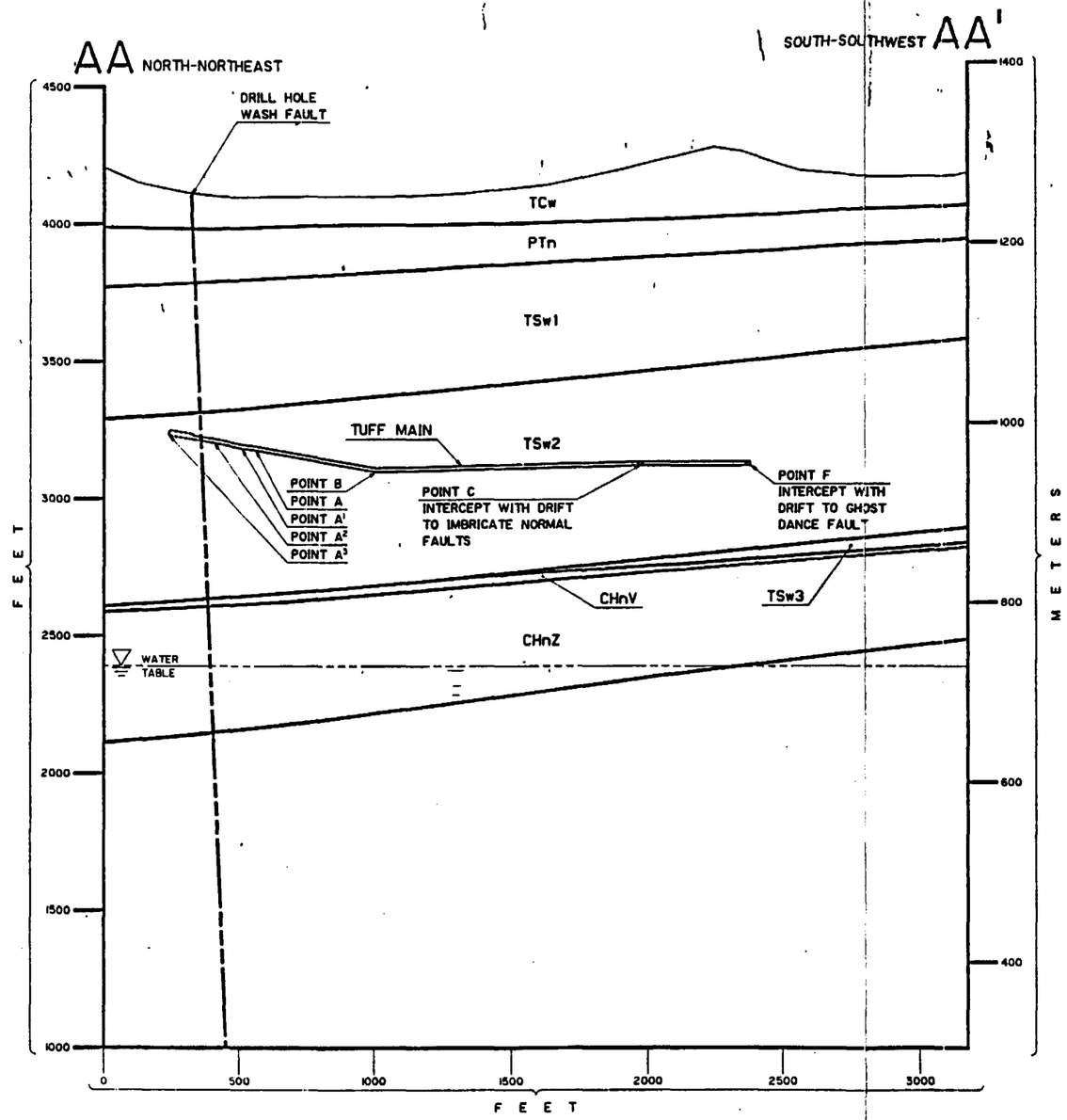
Parsons Brinckerhoff Quade & Douglas, Inc.
SNL CONTRACT NO. 57-0878: CHANGES REQUIRE PRIOR APPROVAL OF THE PROCURING AGENCY

NUCLEAR WASTE REPOSITORY IN TUFF
SUBSURFACE FACILITY CONCEPTUAL DESIGN
DRILL HOLE WASH EXPLORATORY
DRIFT PLAN & CROSS-SECTION

DES. JG	DR. JPD	CH. CDM	DWG. APPROVED	DATE	SIZE D
APP.	QA.				
SUB. DM.	DATE	DWG. CLASS UNC	SNL SFCM 14213	SHEET NO. 15 OF	
SCALE 1"=50'	PB DWG. NO.-REV. SS/MN654A/II	REV. 1	SNL DWG. NO. R07048A/II		CAT.

8806270312-11



POINT	NORTH	EAST	ELEVATION
A³	768124.7	564500.2	3239.5
A²	768014.4	564373.4	3209.4
A¹	767943.7	564292.0	3190.1
A	767910.7	564254.0	3181.1
B	767535.2	564000.8	3100.0
C	766733.1	563459.7	3124.2
F	766401.6	563236.2	3134.2

TI APERTURE CARD

Also Available On Aperture Card

PROJ. & W.O.	NO	DATE	REVISION	BY	CK.	APP.
2605	1	2/88	ESF REF. CONFIGURATION	JPD	JG	
3696	0	2/87	ESF REF. CONFIGURATION	JPD	JG	

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NUCLEAR WASTE REPOSITORY IN TUFF
SUBSURFACE FACILITY CONCEPTUAL DESIGN
CROSS-SECTION AA-AA'

DES. JG	DR. JPD	CH. VML	DWG. APPROVED	DATE 12/29/87	SIZE D
APP.	DA.		DWG. CLASS UNC	SNL SFCM 14213	SHEET NO. 12 OF 15
SUP. APP.	DATE 6.1.88				
SCALE 1"=250'	PB DWG. NO.-REV. SS/MN654A/12	REV. 1	SNL DWG. NO. R07048A/12		CAT.

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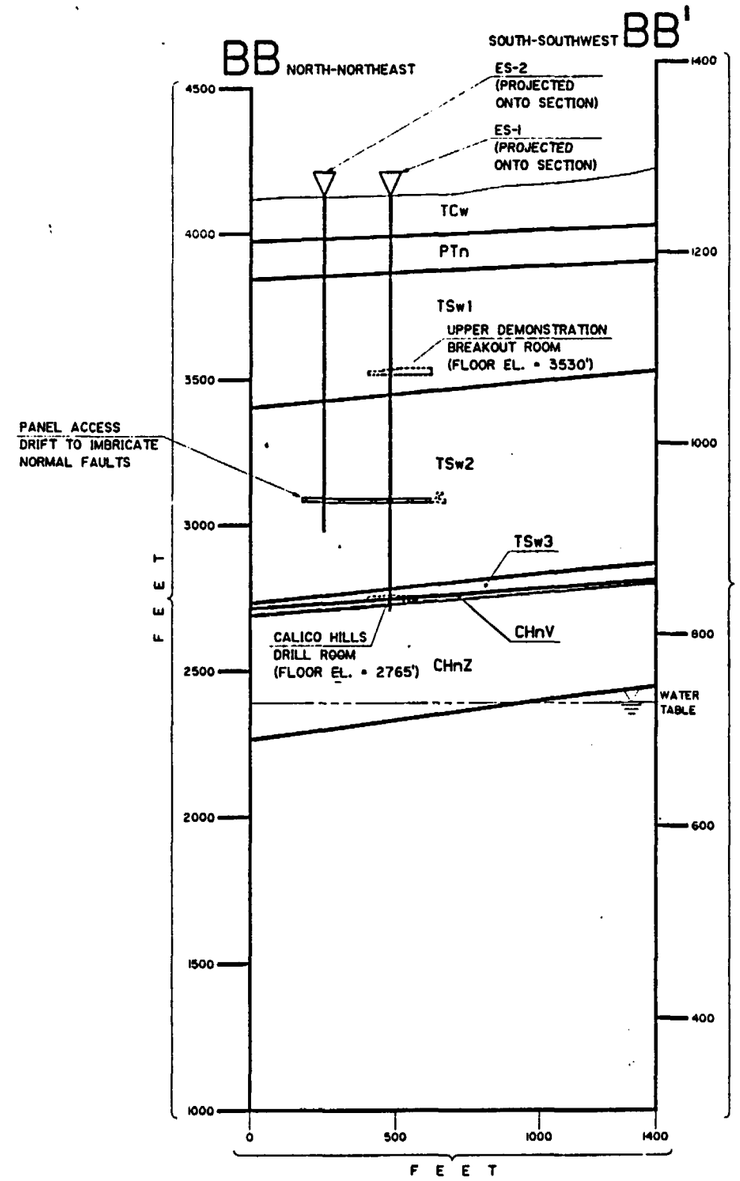

UNIT	ES-1	ES-2	REMARKS
TCw	3990	3982	BASE OF UNIT
PTn	3858	3856	BASE OF UNIT
TSw1	3451	3429	BASE OF UNIT
TSw2	2783	2759	BASE OF UNIT
TSw3	2749*	2732	BASE OF UNIT
CHnV	2735*	2714	BASE OF UNIT
WATER TABLE	2396	2398	BASE OF UNIT
CHnZ	2333*	2301*	BASE OF UNIT

* NOTE: ELEVATION IS AT THE PROJECTION OF THE ESF SHAFT ON THE BASE OF THE UNIT

POINT	NORTH	EAST	ELEVATION
ES-1	766255.0	553630.0	4130.0 (COLLAR)
ES-2	766337.0	553918.0	4130.0 (COLLAR)

TI APERTURE CARD

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8806270312-13

PROJ. & W.O.	NO	DATE	REVISION	BY	CK.	APP.
3605	1	2/88	ESF REF. CONFIGURATION	JPD	JG	
3696	0	2/87	ESF REV. CONFIGURATION	JPD	JG	

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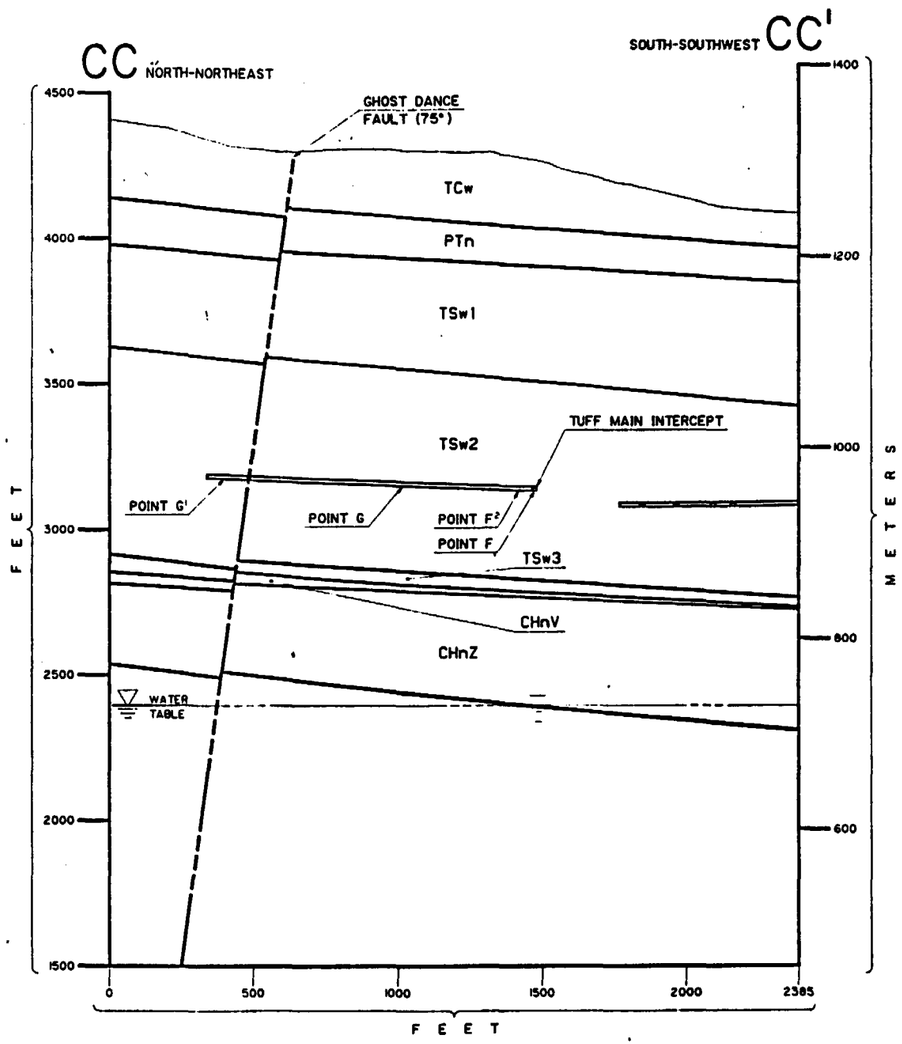
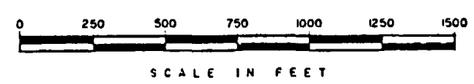
NUCLEAR WASTE REPOSITORY IN TUFF
SUBSURFACE FACILITY CONCEPTUAL DESIGN
CROSS-SECTION BB-BB'

DES.	DR. JPD	CH.	DWG. APPROVED	DATE 12/29/87	SIZE D
APPR.	QA.		DWG. CLASS UNC	SNL SFCM 14213	SHEET NO. 13 OF 15
SUB.	DATE				
SCALE 1:25	PB DWG. NO.-REV. S /MN654A/13	REV. 1	SNL DWG. NO. R07048A/13		CAT.



POINT	NORTH	EAST	ELEVATION
F	766401.6	563236.2	3134.2
F²	766436.9	563183.9	3134.2
G	766660.2	562852.8	3151.0
G'	767005.0	562341.7	3176.9



TI APERTURE CARD

Also Available On Aperture Card

PROJ. & W.O.	NO	DATE	REVISION	BY	CK.	APP.
2605	1	2/88	ESF REF. CONFIGURATION	JPD	JG	
3696	0	2/87	ESF REV. CONFIGURATION	JPD	JG	

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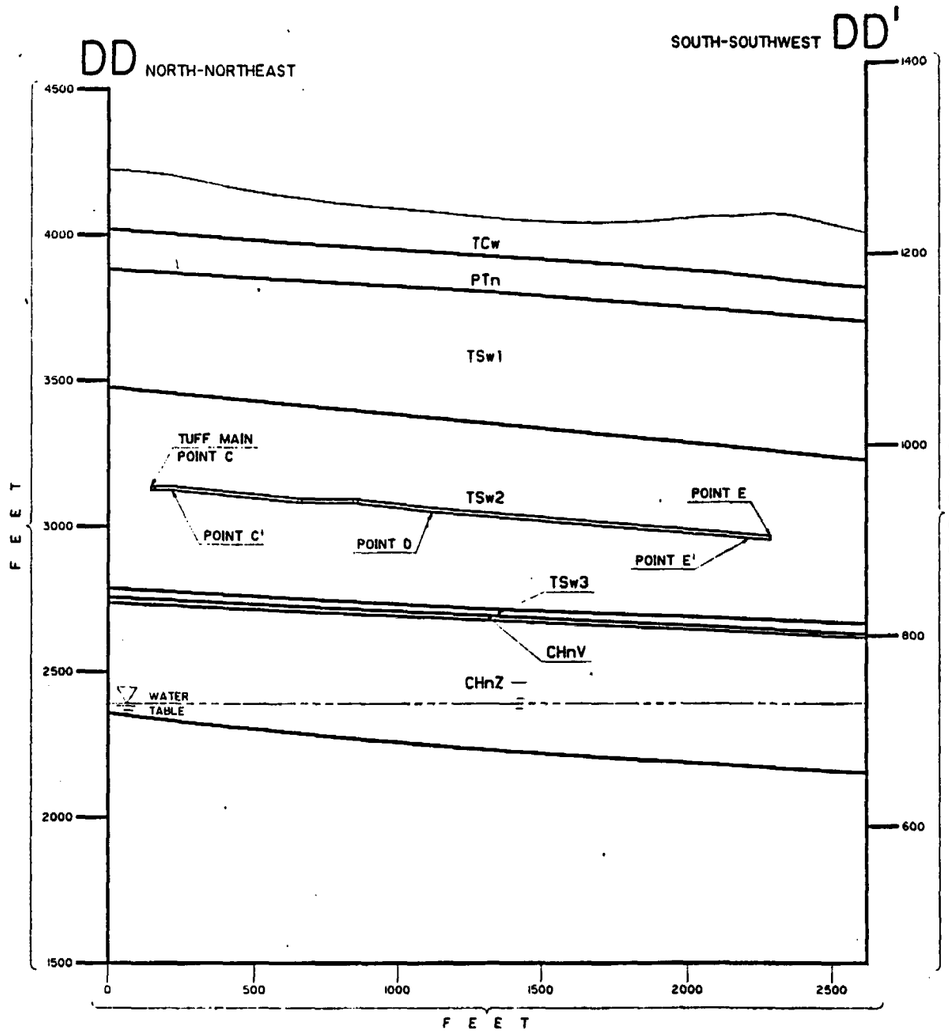
SNL CONTRACT NO. 57-0878: CHANGES REQUIRE PRIOR APPROVAL OF THE PROCURING AGENCY

NUCLEAR WASTE REPOSITORY IN TUFF
SUBSURFACE FACILITY CONCEPTUAL DESIGN
CROSS-SECTION CC-CC'

DES. JG	DR. JPD	CH. VML	DWG. APPROVED	DATE 12/29/87	SIZE D
APP.	QA.		DWG. CLASS UNC	SNL SFCM 14213	SHEET NO. 14 OF 15
SUB.-PM	DATE 6/1/88				
SCALE 1"=250'	PB DWG. NO.-REV. SS/MN654A/14	REV. 1	SNL DWG. NO. R07048A/14		CAT.

8806270312-14



POINT	NORTH	EAST	ELEVATION
C	766733.1	565459.7	3124.2
C'	766697.8	565511.9	3124.2
D	766188.7	564266.8	3049.1
E	765543.9	565222.7	2954.0
E'	765587.0	565158.9	2960.3

TI APERTURE CARD

Also Available On Aperture Card

PROJ. & W.O. NO	REV	DATE	REVISION	BY	CK.	APP.
2605	1	2/88	ESF REF. CONFIGURATION	JPD	JG	
3696	0	2/87	ESF REF. CONFIGURATION	JPD	JG	

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NUCLEAR WASTE REPOSITORY IN TUFF
SUBSURFACE FACILITY CONCEPTUAL DESIGN
CROSS-SECTION DD-DD'

DES. JG	DR. JPD	CH. VML	DWG. APPROVED	DATE	SIZE D
APP.	QA		DWG. CLASS UNC	SNL SFCM 14213	SHEET NO. 15 OF 15
SUPERV.	DATE 6/1/88				
SCALE 1"=250'	PB DWG. NO.-REV. SS/MN654A/15	REV. 1	SNL DWG. NO. R07048A/15		CAT.

8806270312-15