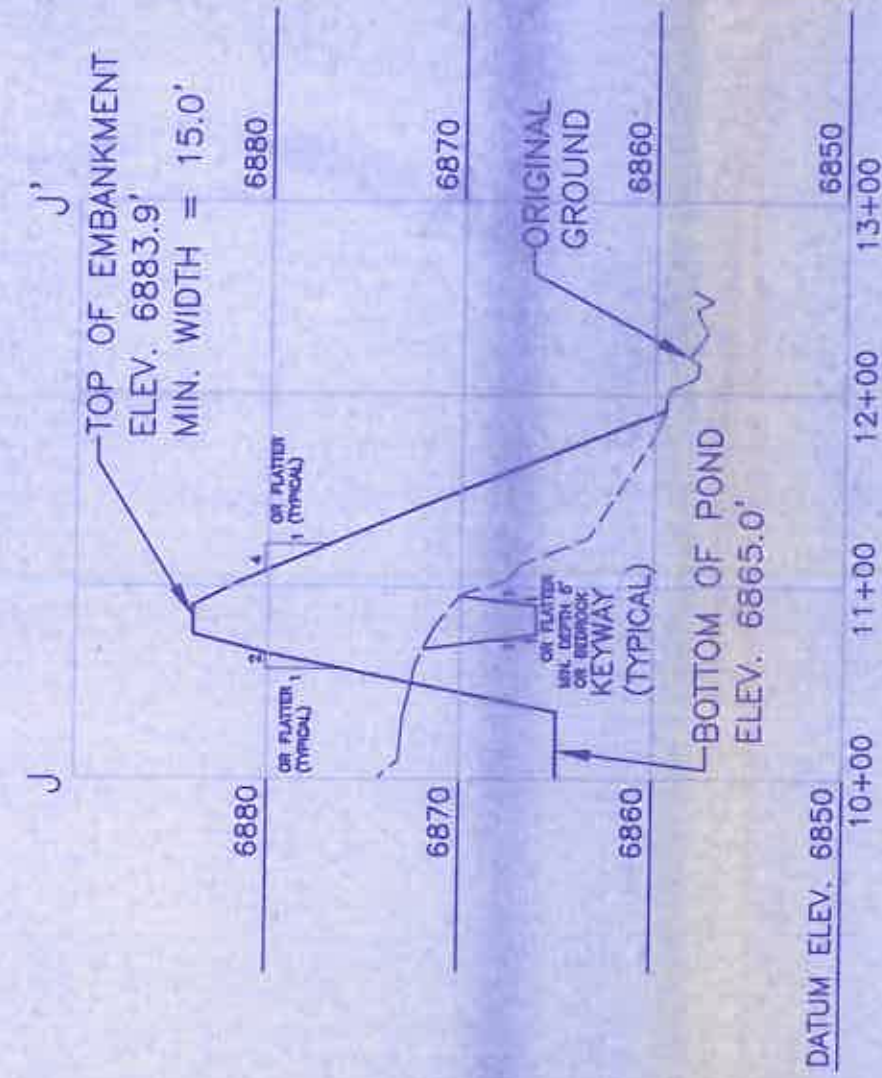


10+00 11+00 12+00 13+00

SECTION F - F'  
SCALE: HORIZ. 1" = 100'  
VERT. 1" = 10'

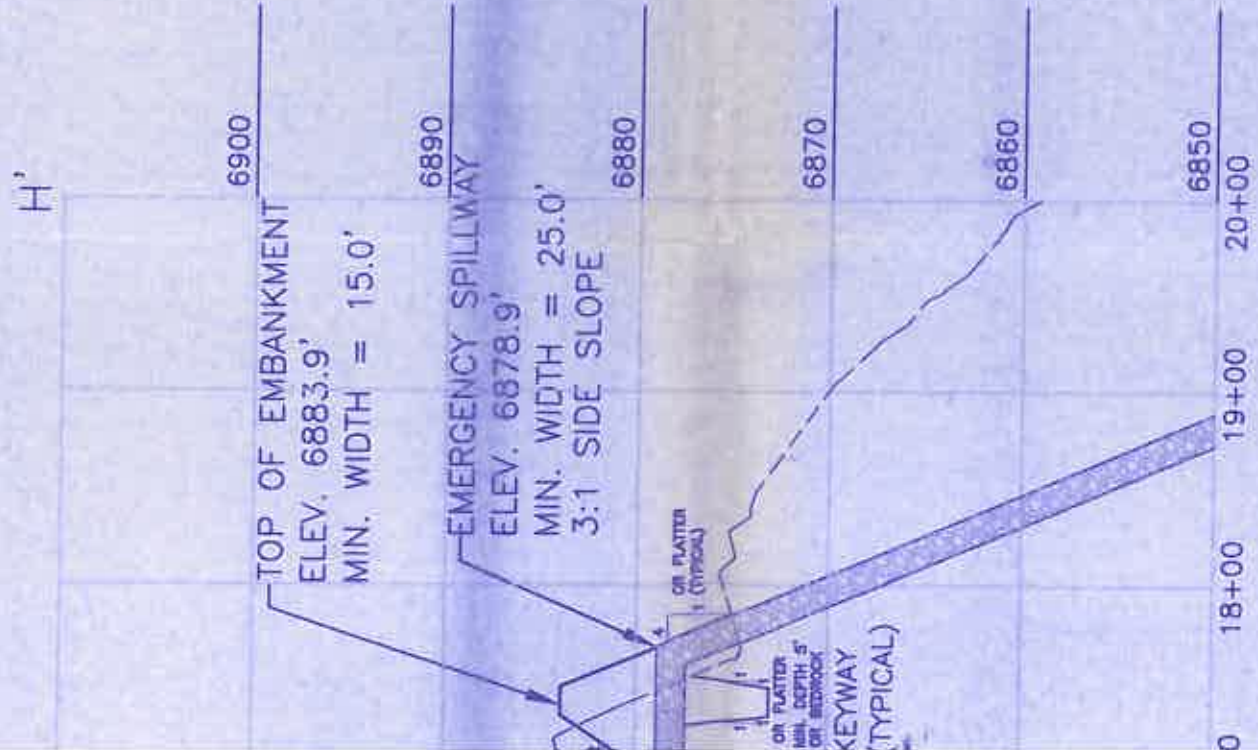


SECTION J - J'  
SCALE: HORIZ. 1" = 100'  
VERT. 1" = 10'



18+00 19+00

SECTION H' - H'  
SCALE: HORIZ. 1" = 100'  
VERT. 1" = 10'



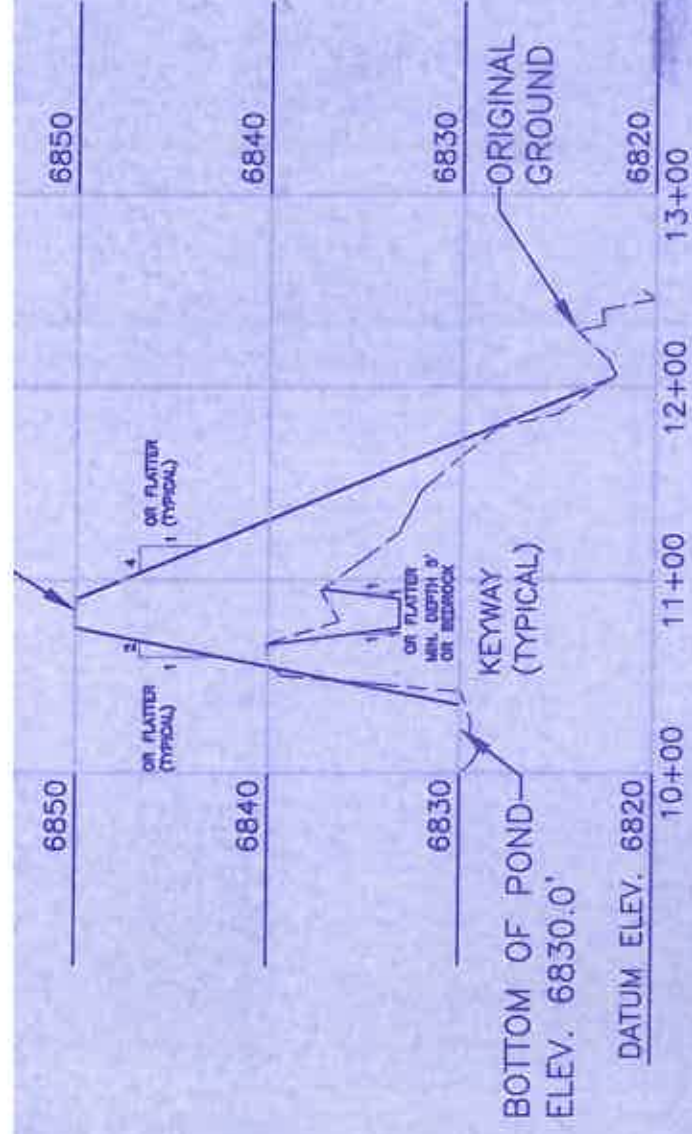
ARIZONA P.E. 18782  
Date: **DEC 23 2004**

Drawing No. 85400, Sheet K-6 and Drawing No. 85405. Mesa PAP for Construction Specifications. 6, Attachment D, Sections 1-3 for description of on. accordance with approved topsoil salvage plan. distributed area above the high waterline shall be in approved reclamation plan. pes, typical 3:1 slope or flatter and blend into natural

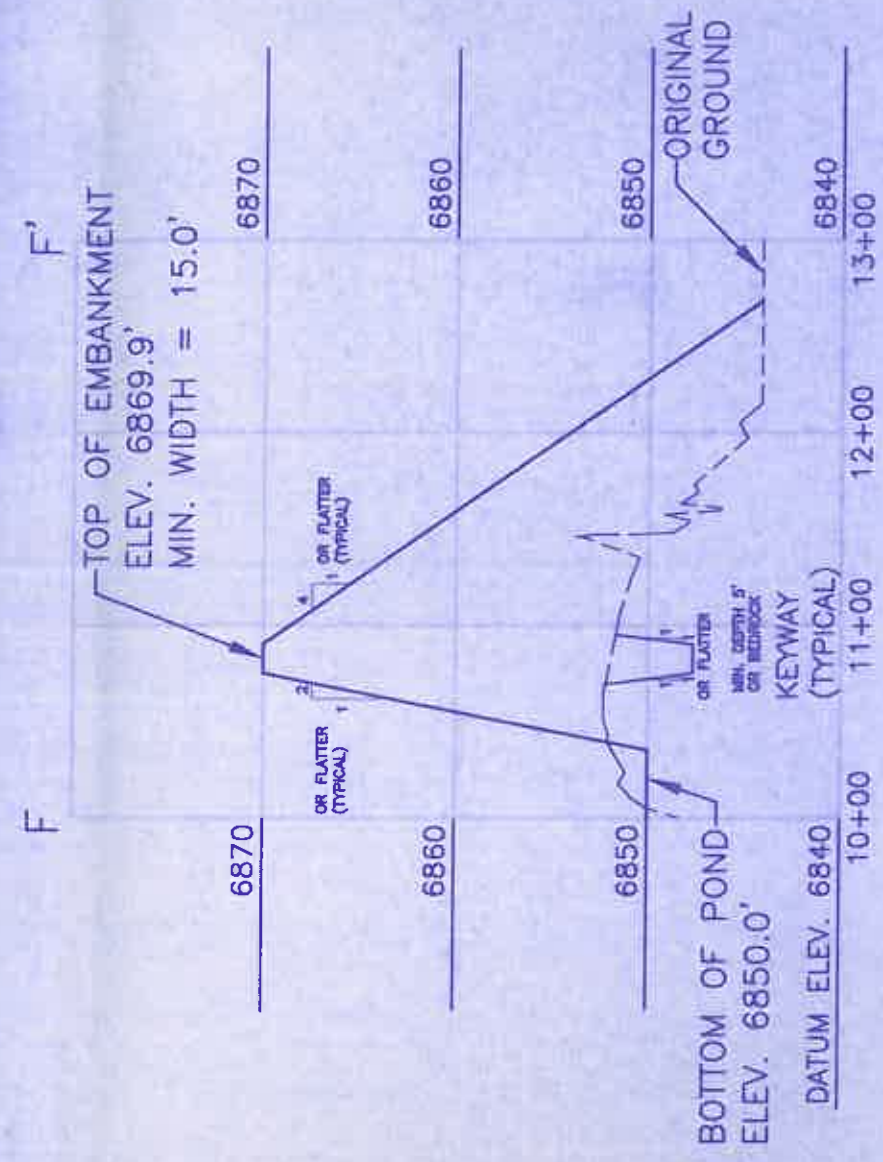
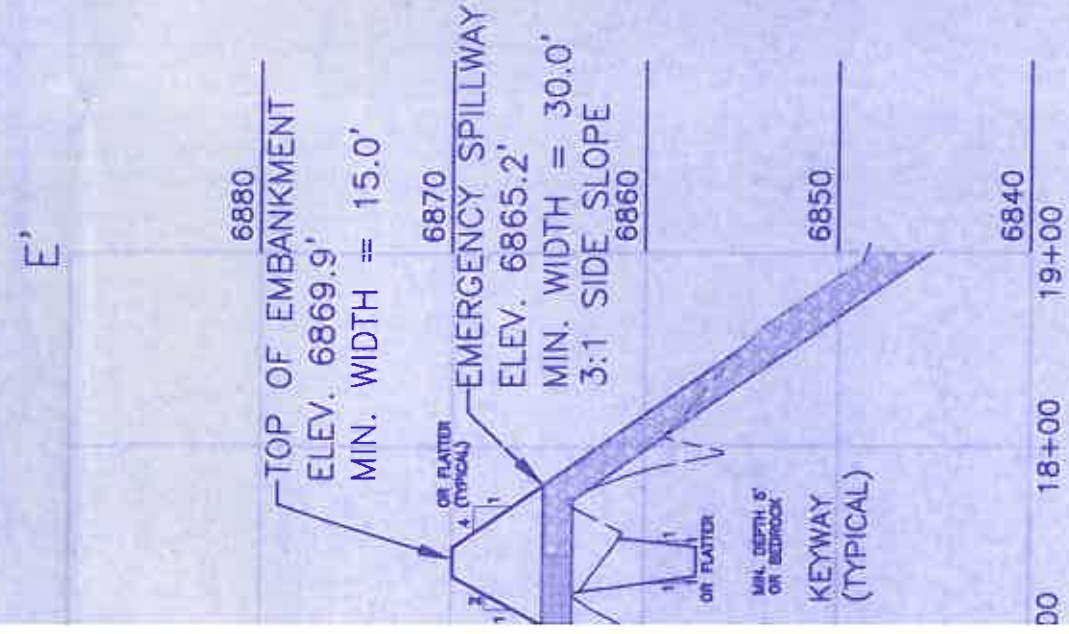
EXHIBIT # 1  
PROPOSED N9-A, A1 & A2  
SEDIMENTATION POND DESIGN

KAYENTA MINE  
PEABODY WESTERN COAL COMPANY  
P. O. BOX 650 KAYENTA, ARIZONA 86033

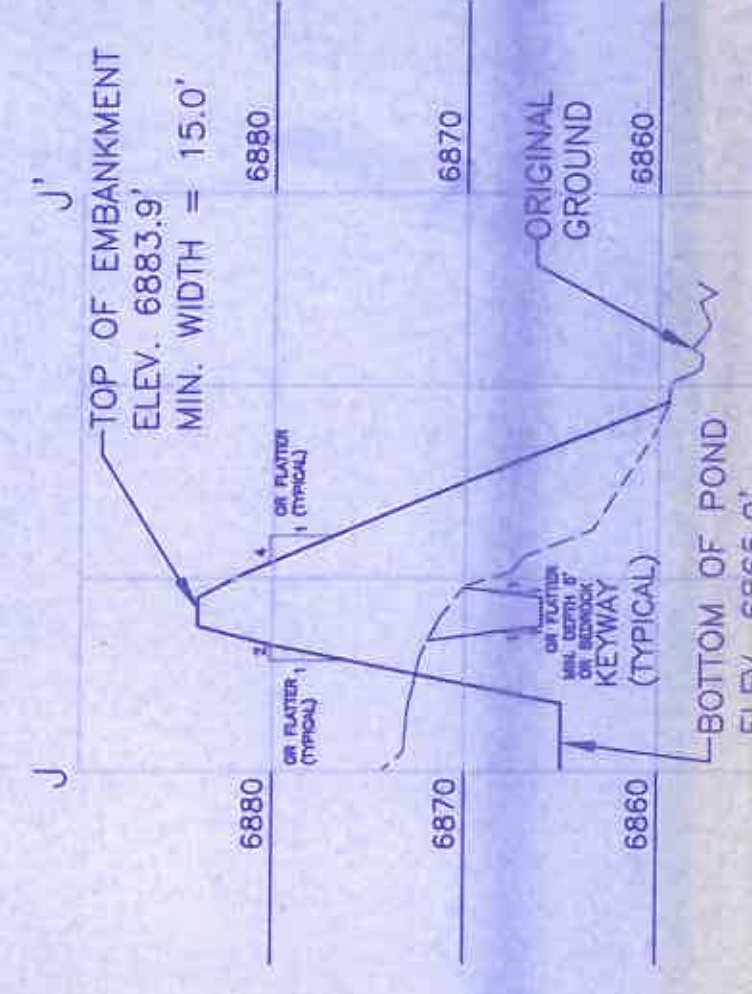
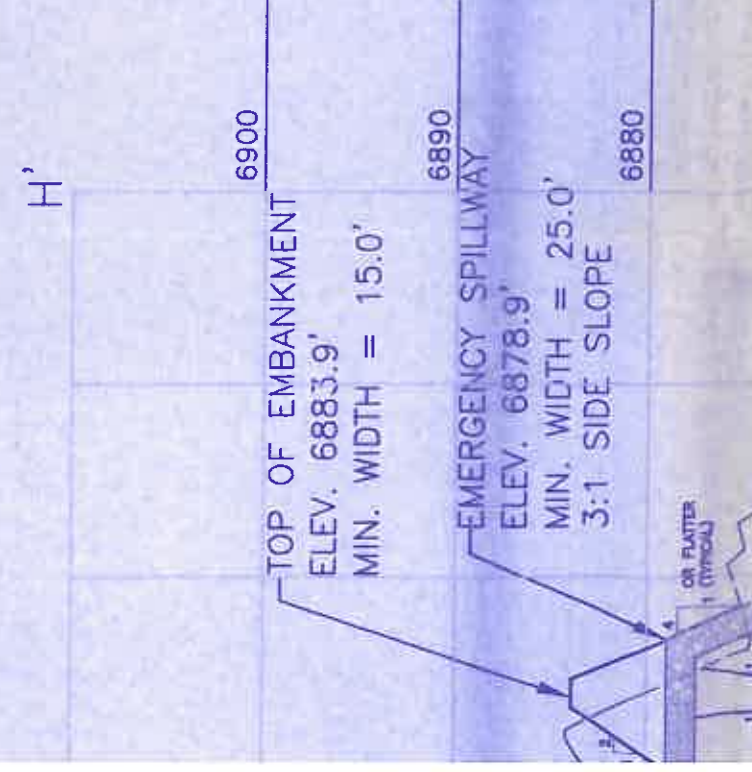
DESIGNED BY: GA	SCALE: AS NOTED
DRAWN BY: PEK	DRAWING DATE: 11-22-04
CHECKED BY: JGS	PHOTO DATE: 11-84
CONTOUR INTERVAL: 5 FT.	DWG FILE: POND N9-A,A1,A2.DWG



SECTION C - C  
 SCALE: HORIZ. 1" = 100'  
 VERT. 1" = 10'

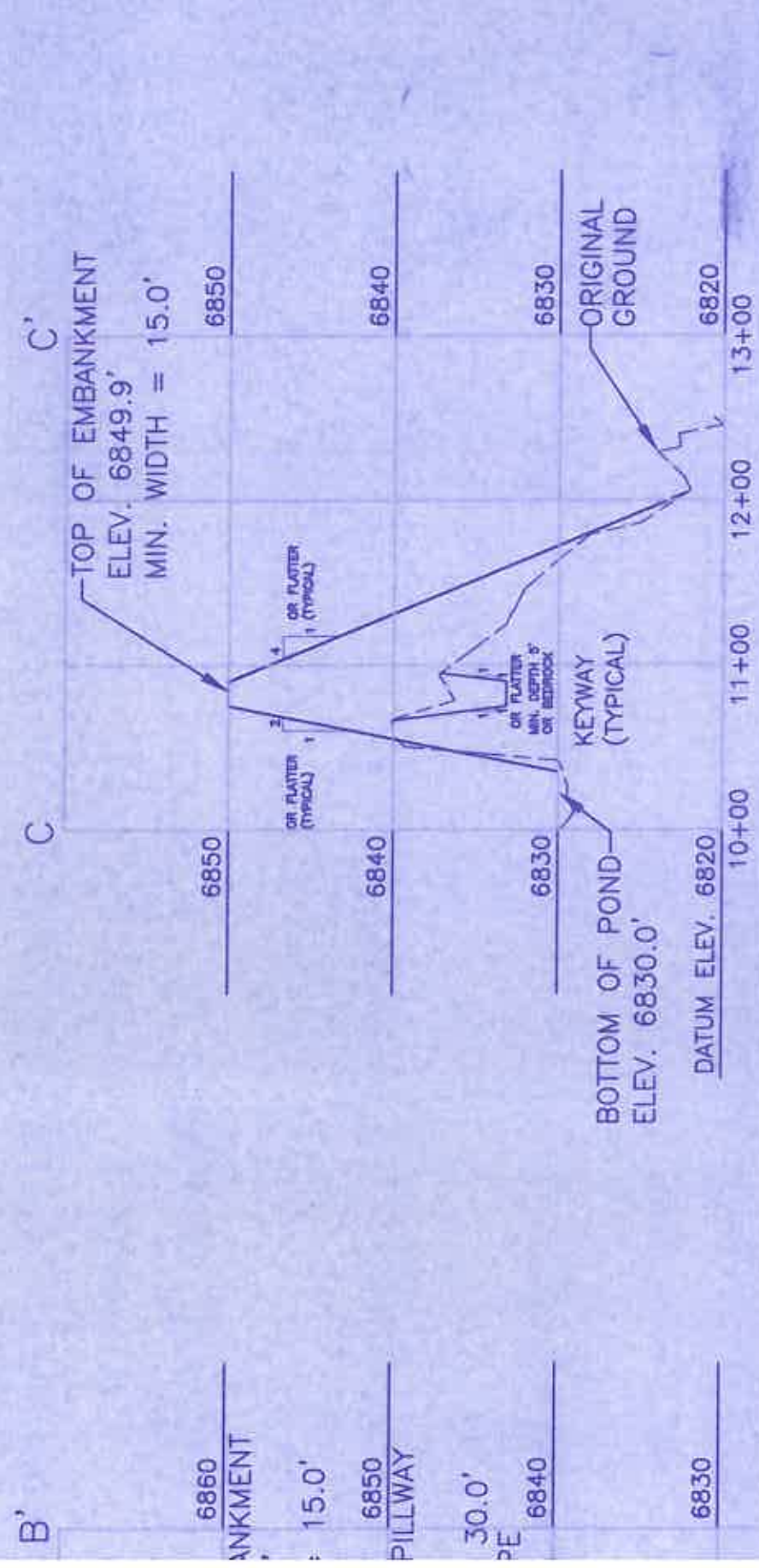


SECTION F - F  
 SCALE: HORIZ. 1" = 100'  
 VERT. 1" = 10'

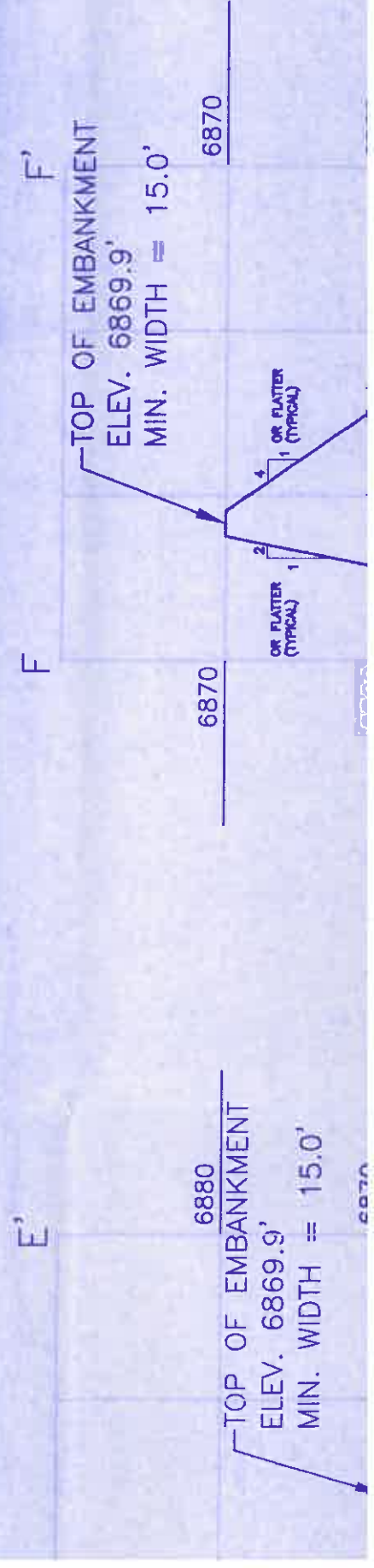


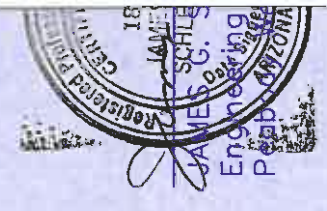
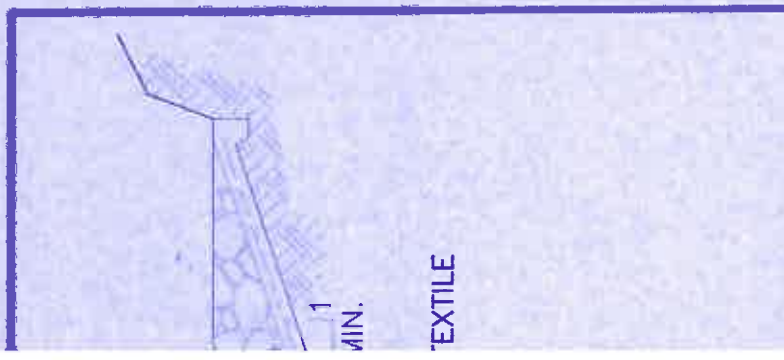
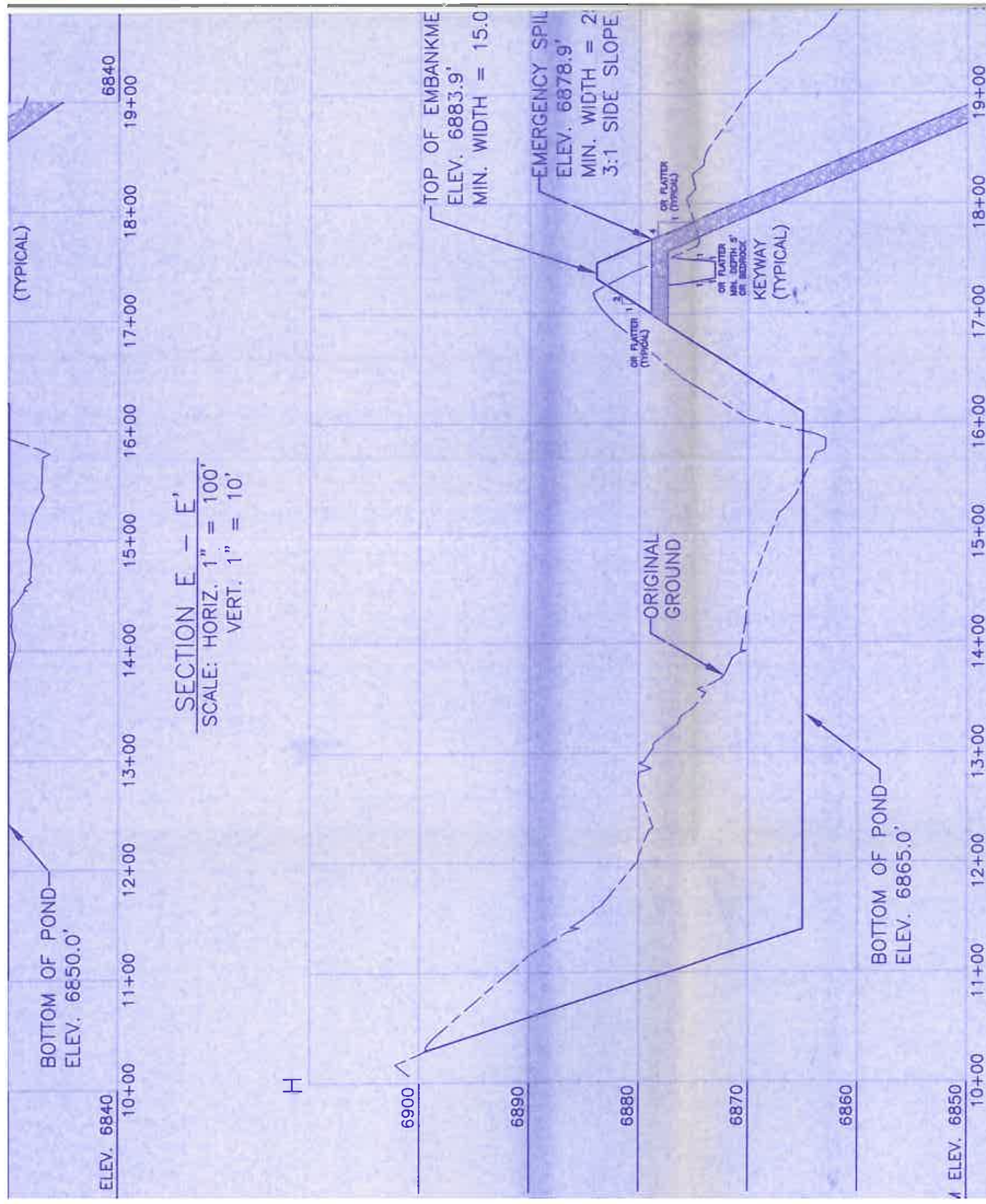
N9-A2 POND STAGE CAPACITY TABLE

ELEVATION (ft-msl)	STAGE (ft)	AREA (acres)	TOTAL CAPACITY (ac-ft)	DESCRIPTION
6865.0	0.0	0.80	0.00	BOTTOM OF POND
6870.0	5.0	1.22	5.04	INCISED ELEV.
6875.0	10.0	1.68	12.27	
6878.9	13.9	2.11	19.65	EMERGENCY SPILLWAY
6880.0	15.0	2.23	22.04	
6883.9	18.9	2.84	31.94	TOP OF EMBANKMENT



SECTION C - C'  
 SCALE: HORIZ. 1" = 100'  
 VERT. 1" = 10'

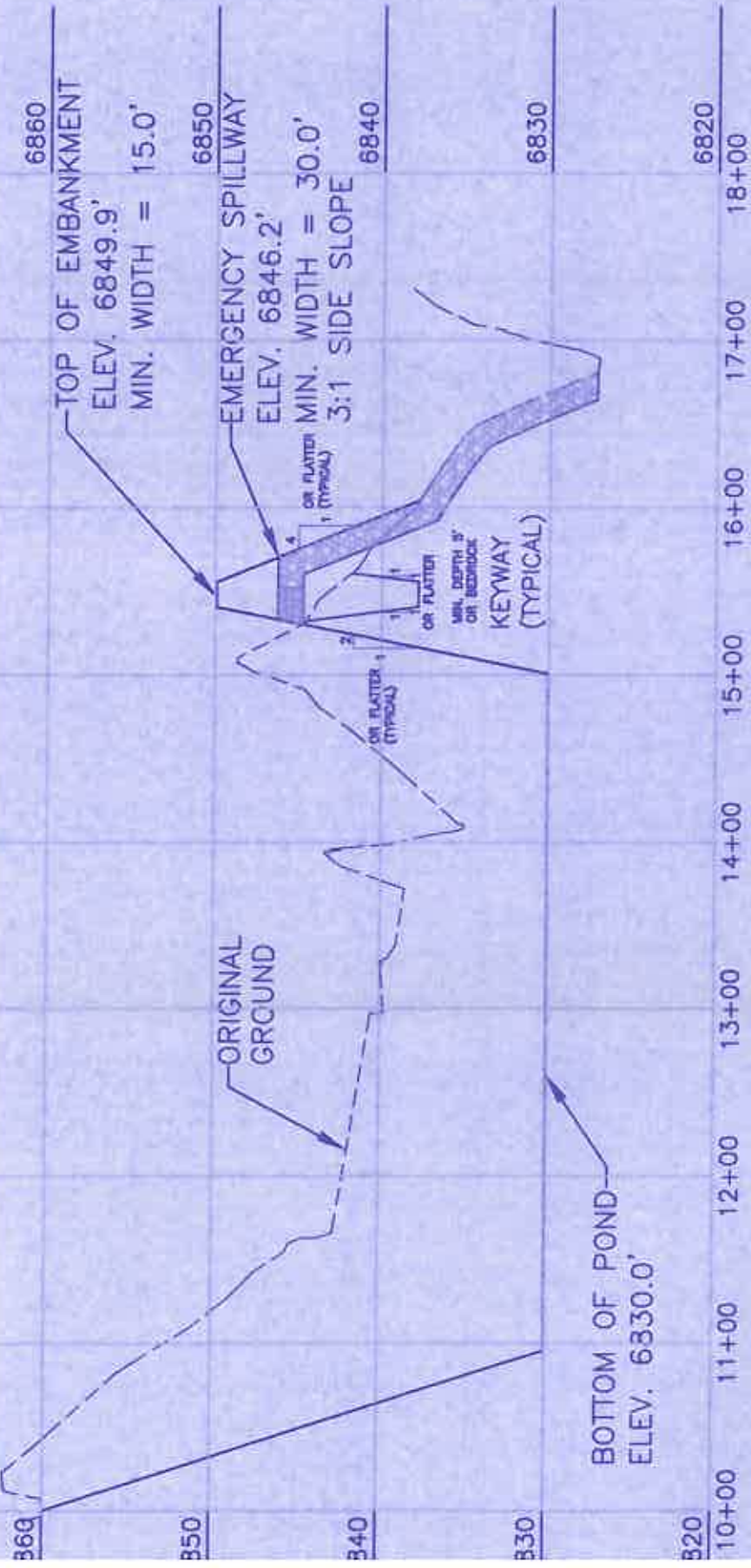




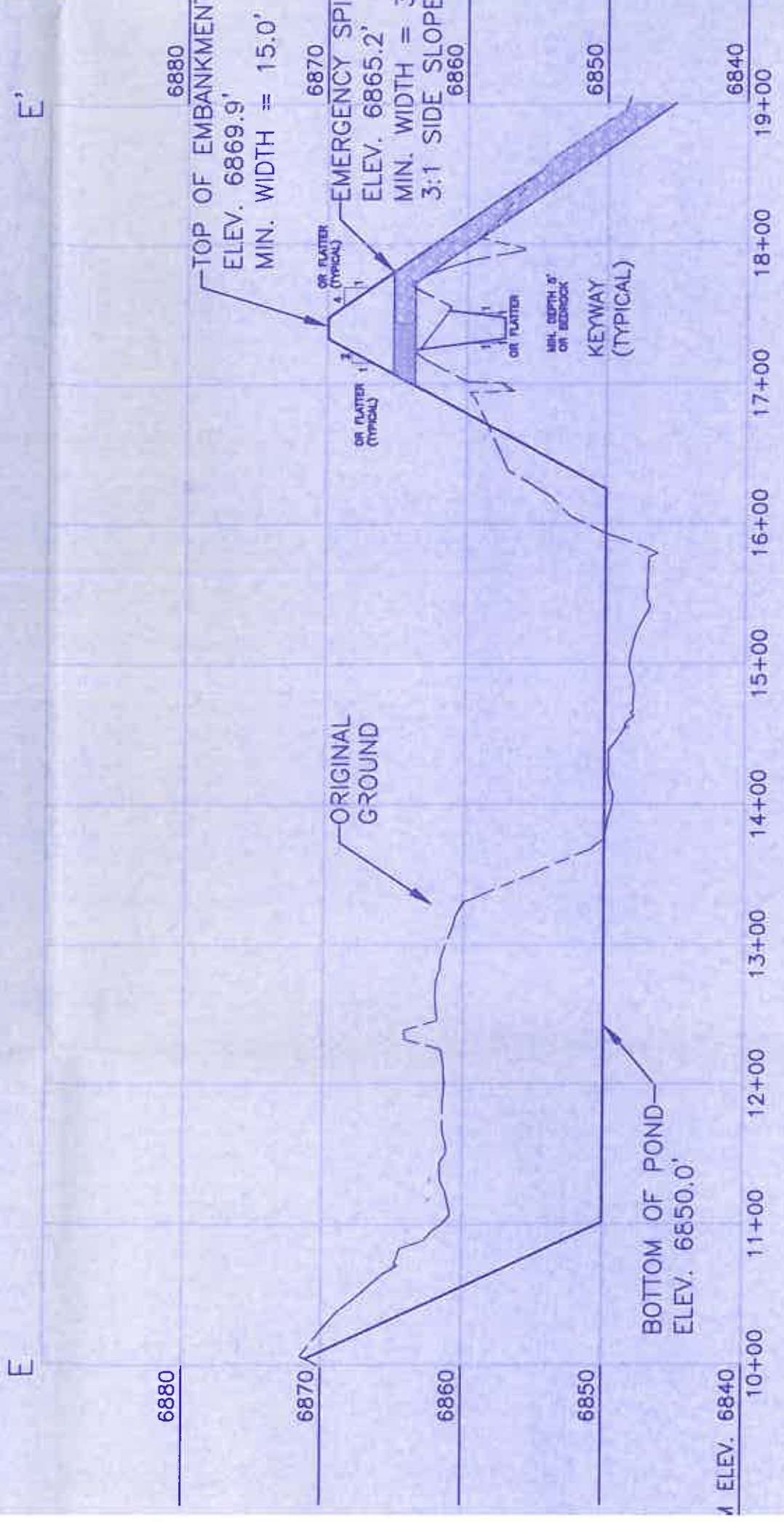
**NOTES:**

- 1) General location, see Drawing No. 85400, Sheet K-
- 2) See Chapter 6, Black Mesa PAP for Construction
- 3) See Vol. 2, Chapter 6, Attachment D, Sections 1- Geotechnical Evaluation.
- 4) Salvage topsoil in accordance with approved tops
- 5) Reclamation of the disturbed area above the high accordance with the approved reclamation plan.
- 6) Ponding area side slopes, typical 3:1 slope or flatter topography.

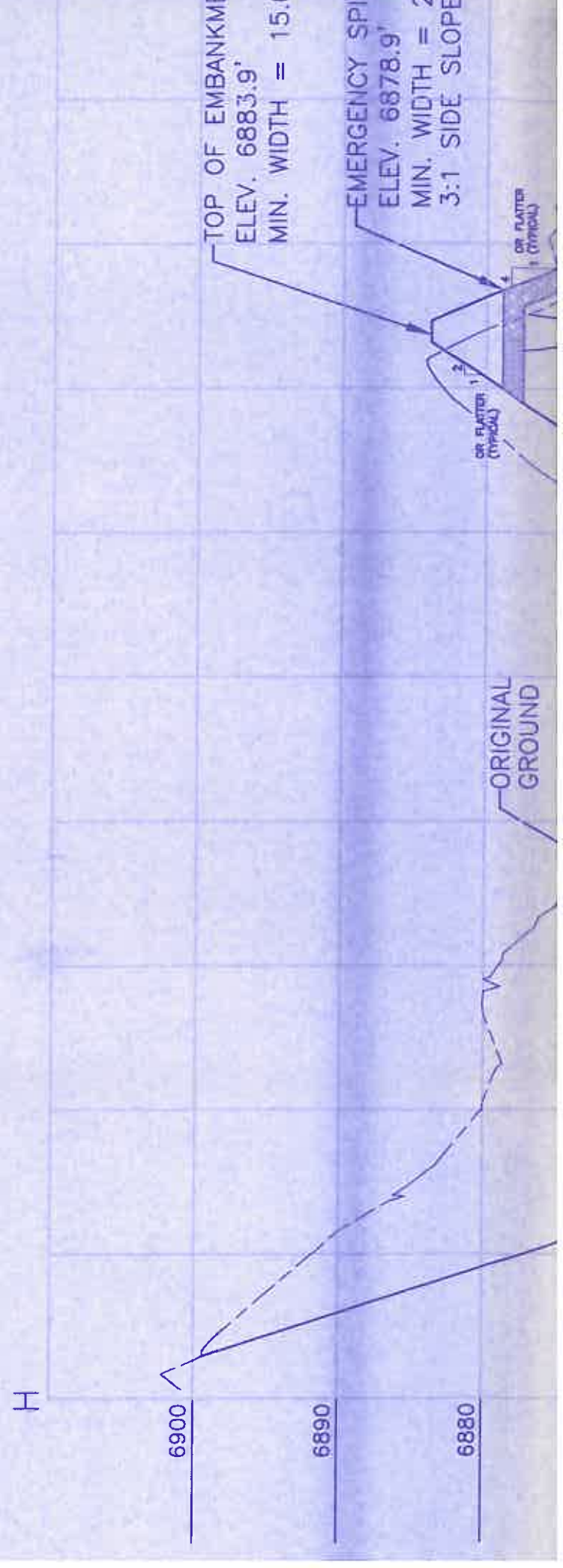
**WOODSON**  
 ENGINEERING AND SURVEYING, INC.  
 124 N. ELDEN ST.  
 FLAGSTAFF, AZ 86001  
 PHONE: (928) 774-4638 FAX: (928) 774-4646



SECTION B - B'  
 SCALE: HORIZ. 1" = 100'  
 VERT. 1" = 10'

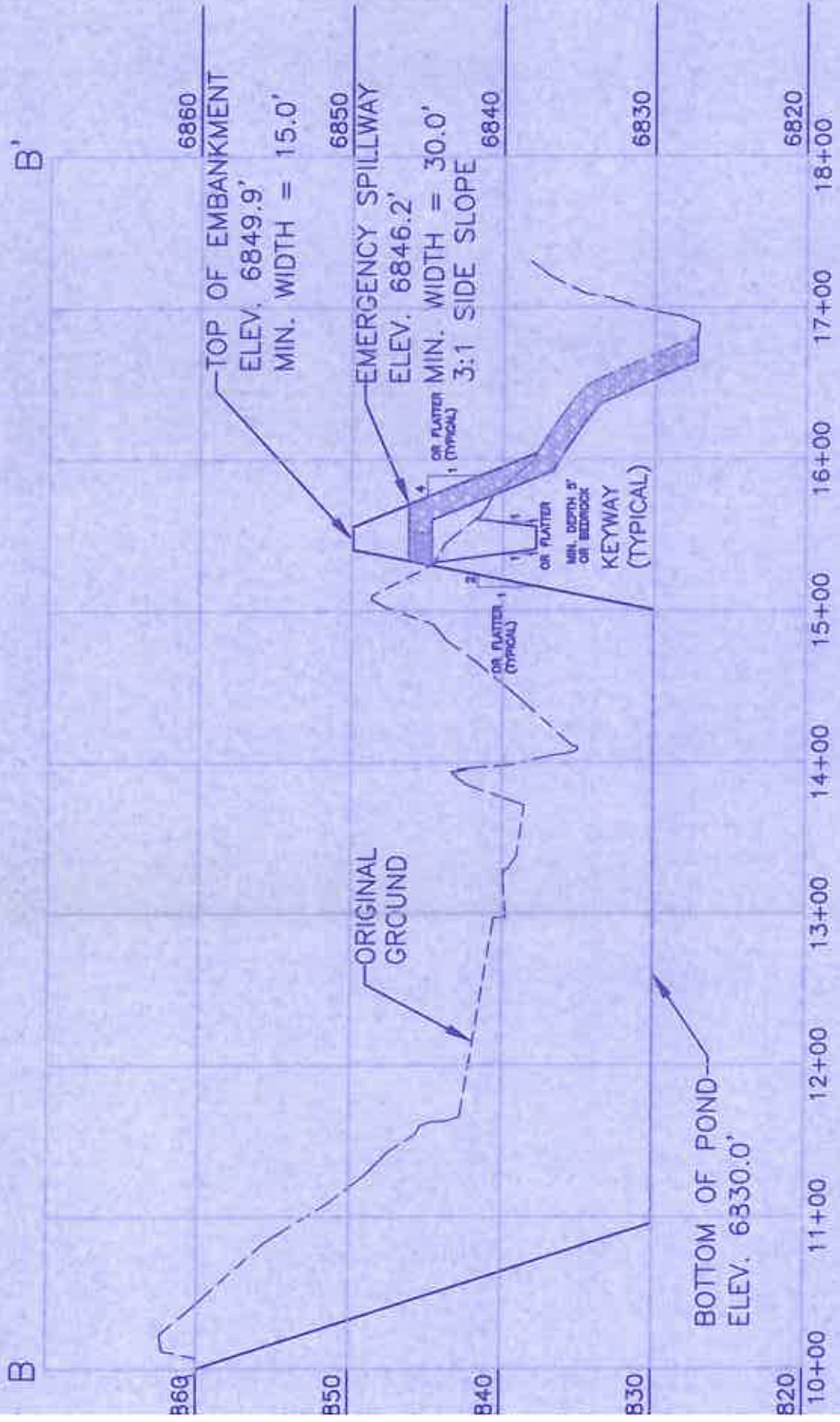


SECTION E - E'  
 SCALE: HORIZ. 1" = 100'  
 VERT. 1" = 10'



N9-A1 POND STAGE CAPACITY TABLE

ELEVATION (ft-msl)	STAGE (ft)	AREA (acres)	TOTAL CAPACITY (ac-ft)	DESCRIPTION
6850.0	0.0	0.59	0.00	BOTTOM OF POND
6855.0	5.0	1.03	4.05	INCISED ELEV.
6860.0	10.0	1.52	10.42	
6865.0	15.0	2.03	19.28	
6865.2	15.2	2.05	19.69	EMERGENCY SPILLWAY
6869.9	19.9	2.57	30.78	TOP OF EMBANKMENT



SECTION B - B'  
 SCALE: HORIZ. 1" = 100'  
 VERT. 1" = 10'

E

E'

6880

6880

TOP OF EMBANKMENT  
 ELEV. 6869.9'  
 MIN. WIDTH = 15.0'

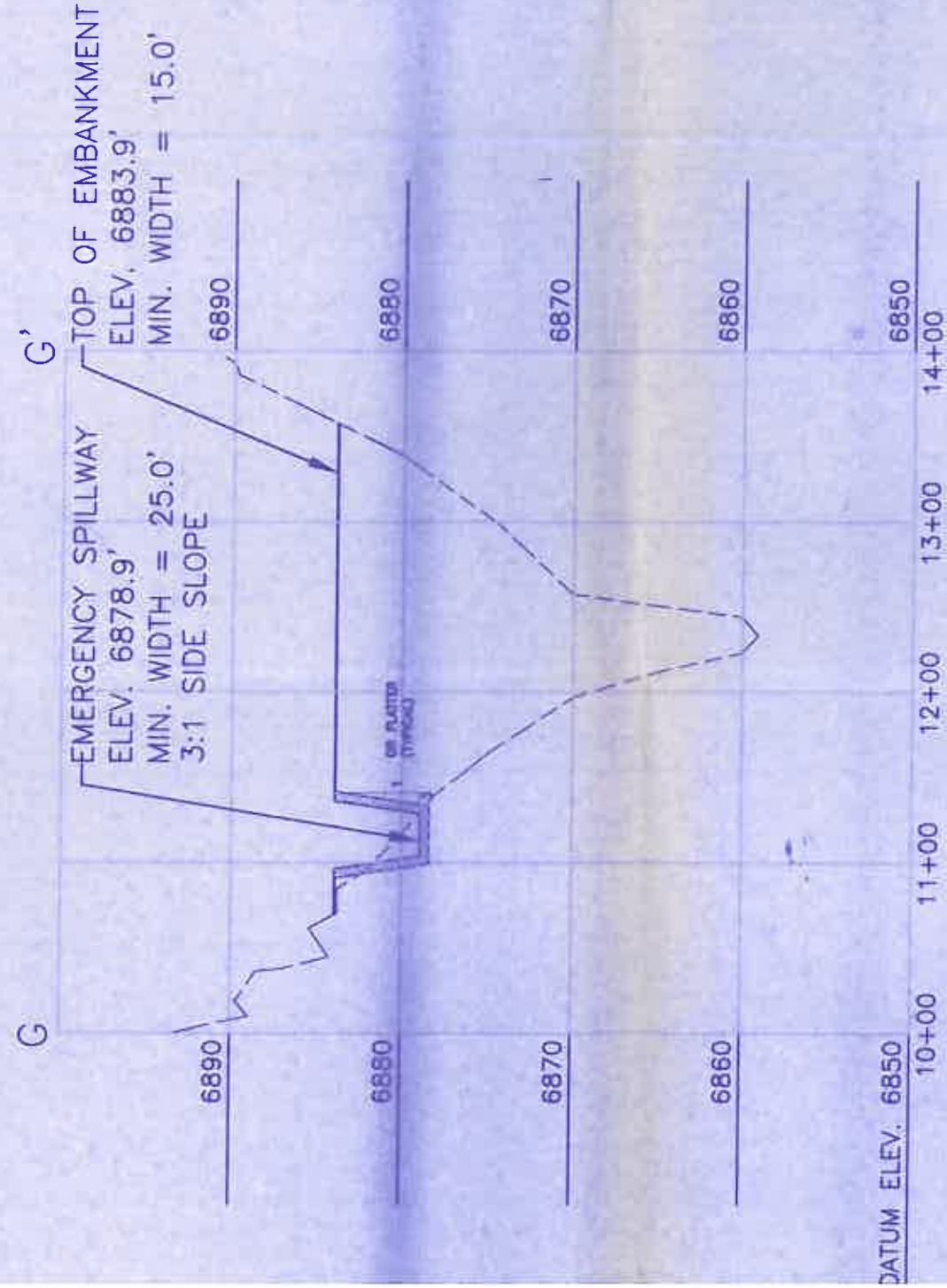
6870

6870

DATUM ELEV. 6840

10+00 11+00 12+00 13+00 6840

SECTION D - D'  
SCALE: HORIZ. 1" = 100'  
VERT. 1" = 10'

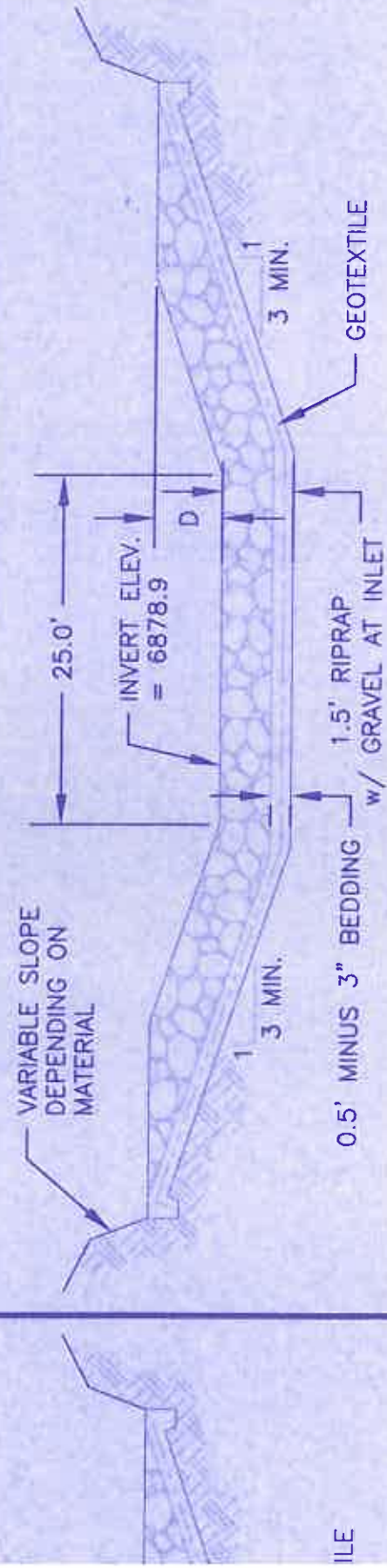
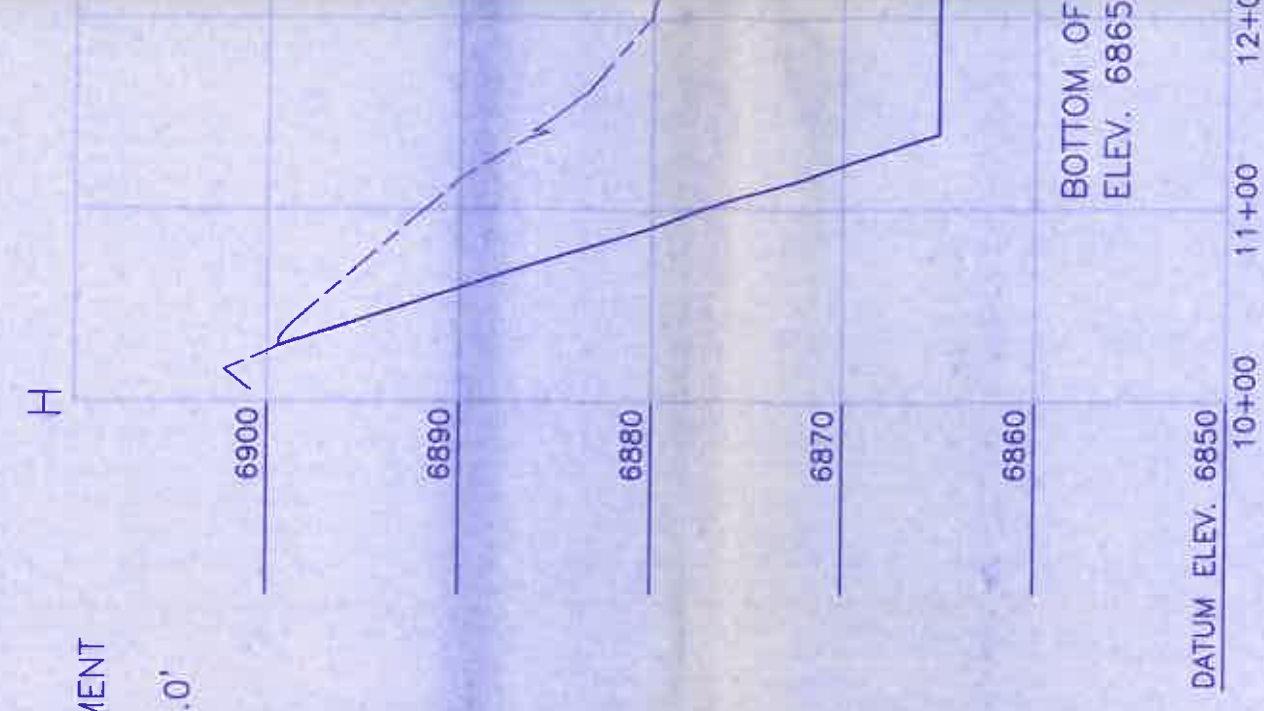


SECTION G - G'  
SCALE: HORIZ. 1" = 100'  
VERT. 1" = 10'

DATUM ELEV. 6840

10+00 11+00 12+00

BOTTOM OF POND  
ELEV. 6850.0'

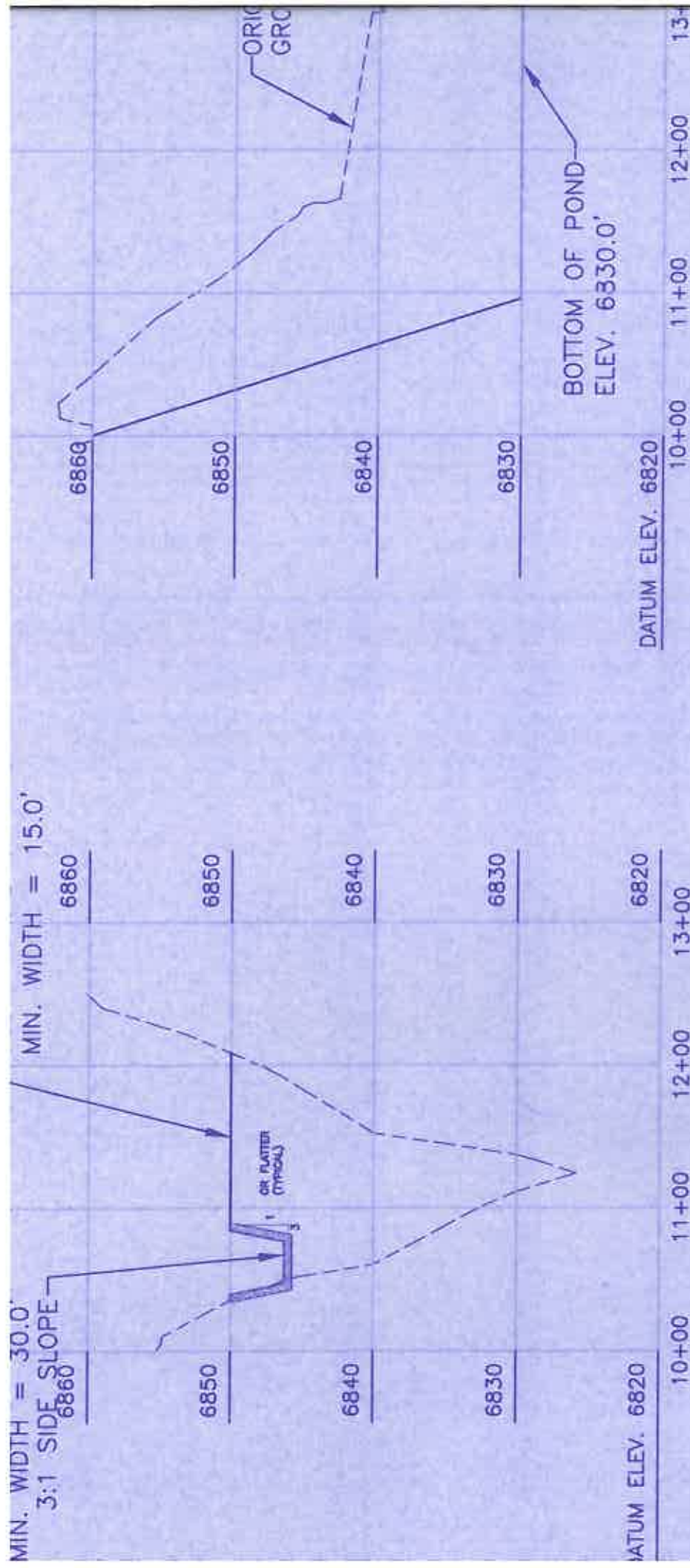


SPILLWAY MIN. D=2.5'  
OUTFLOW CHANNEL MIN. D=2.0'

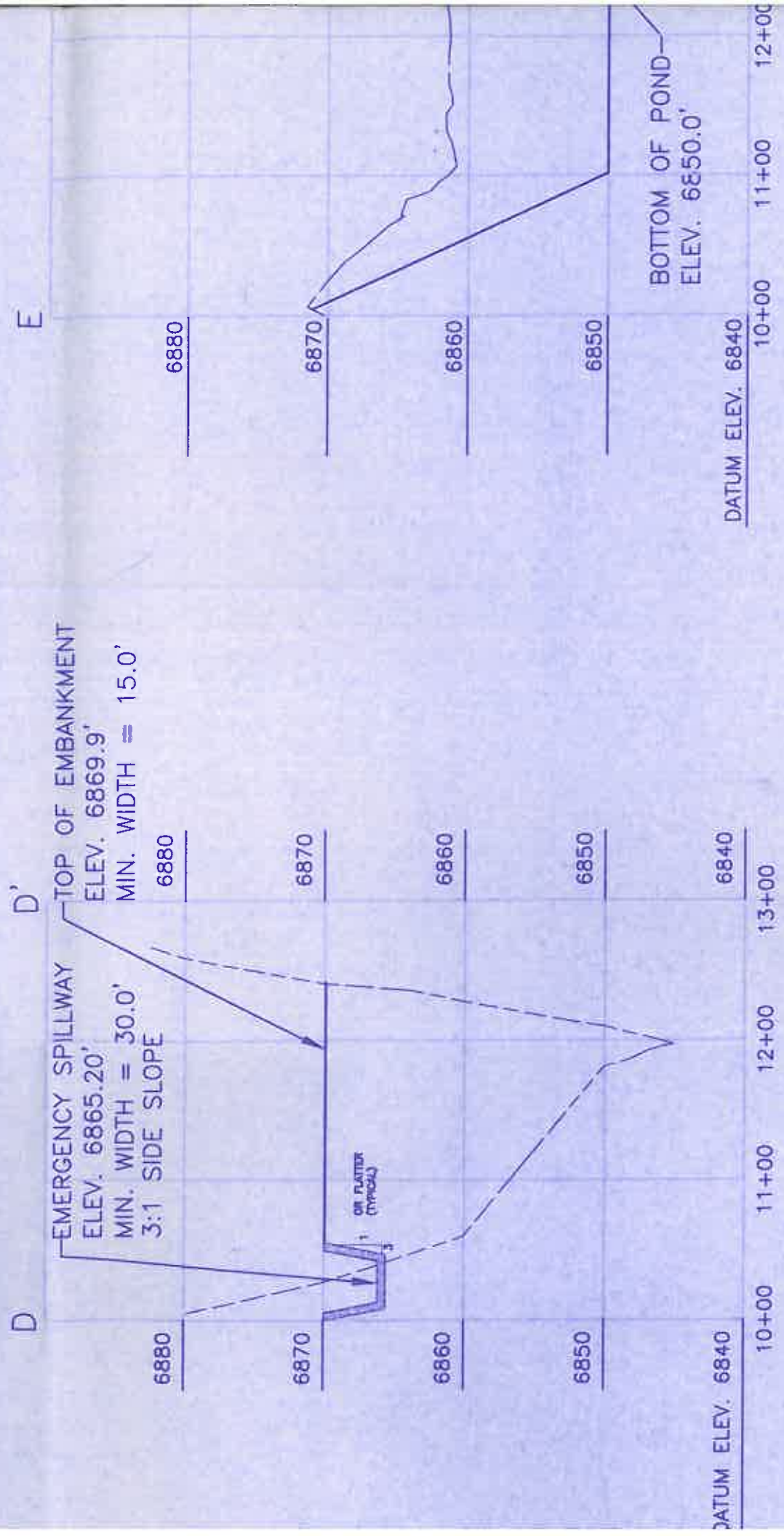
SECTION OF EMERGENCY SPILLWAY

NOT TO SCALE

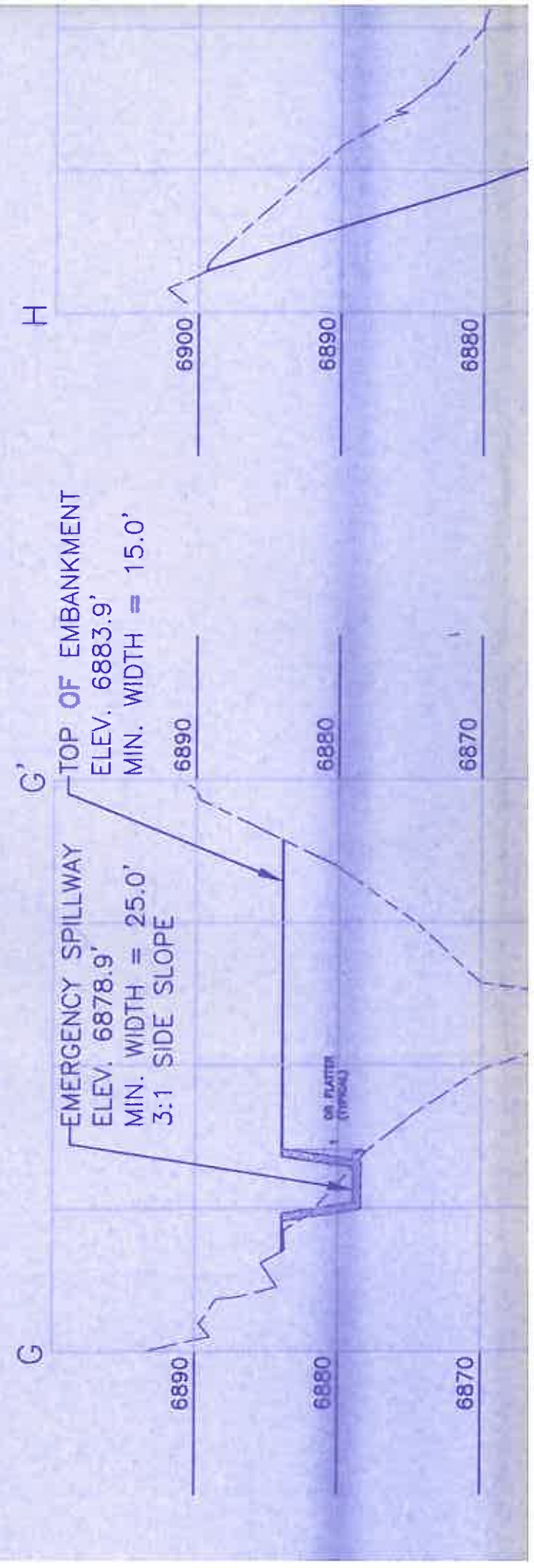
N9-A2 POND



SECTION A - A'  
SCALE: HORIZ. 1" = 100'  
VERT. 1" = 10'



SECTION D - D'  
SCALE: HORIZ. 1" = 100'  
VERT. 1" = 10'



SECTION G - G'  
SCALE: HORIZ. 1" = 100'  
VERT. 1" = 10'

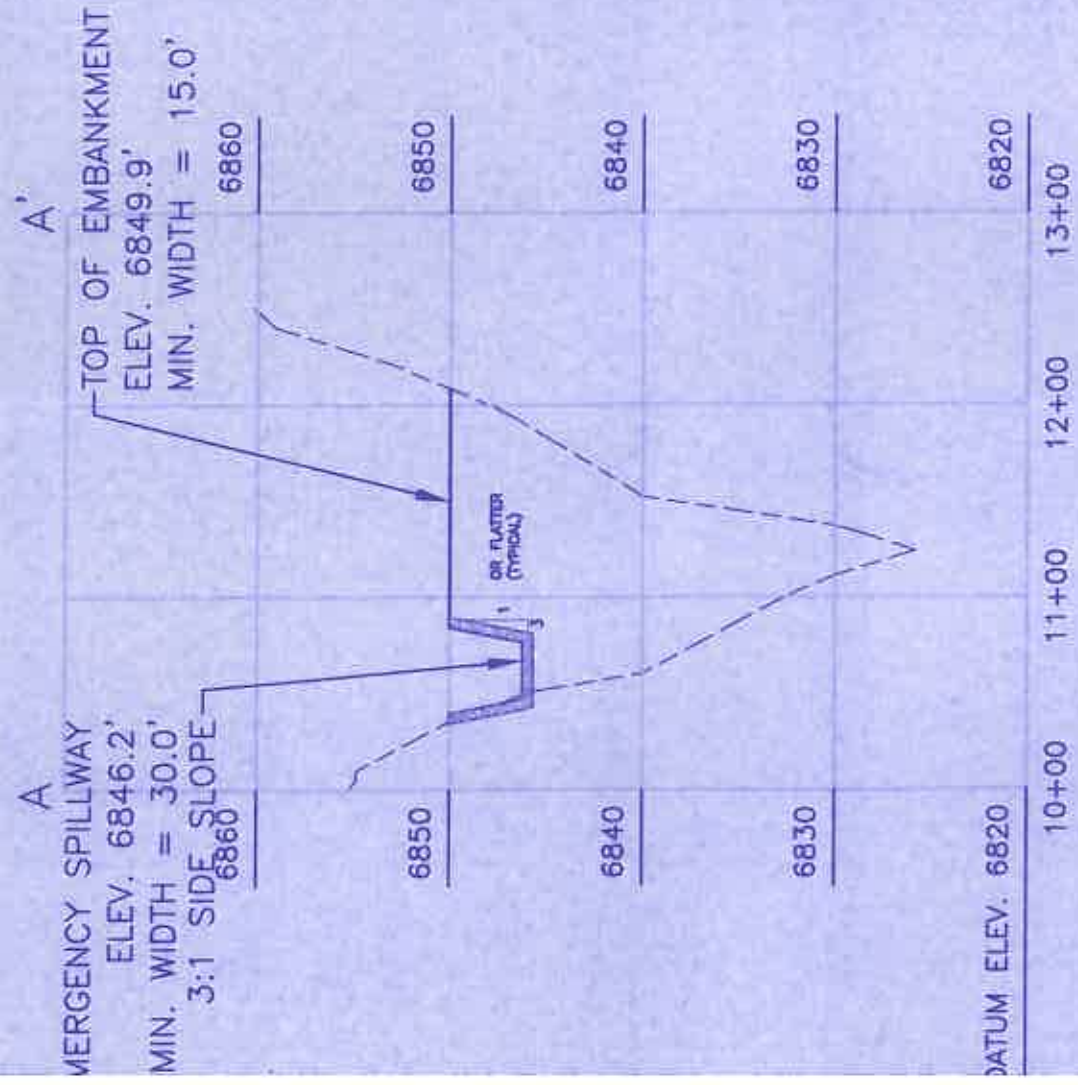


N9-A POND STAGE CAPACITY TABLE

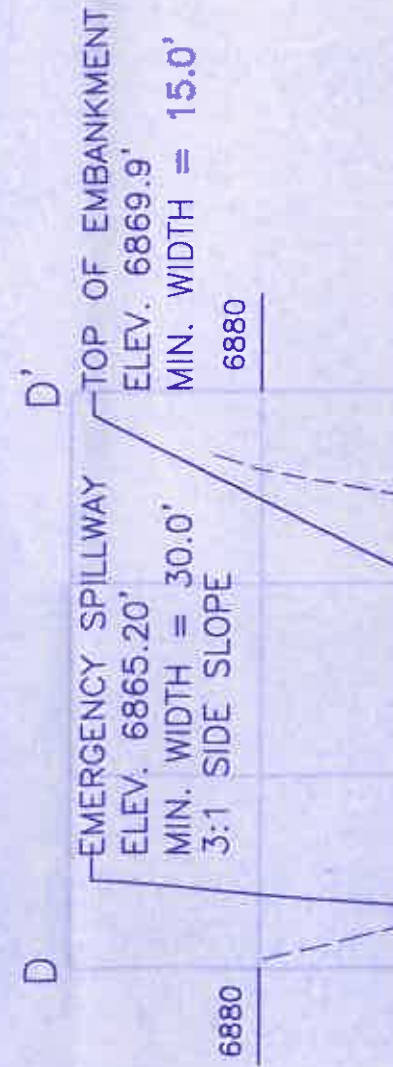
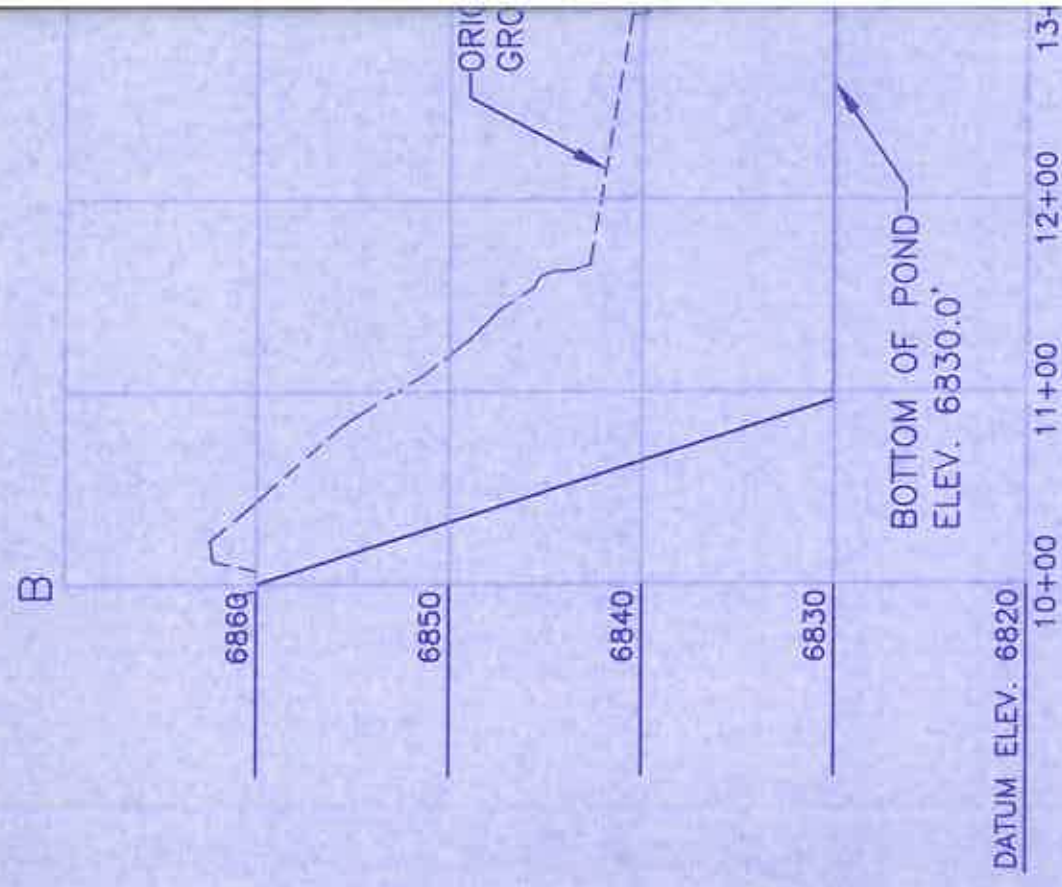
N9-A

ELEVATION (ft-msl)	STAGE (ft)	AREA (acres)	TOTAL CAPACITY (ac-ft)	DESCRIPTION
6830.0	0.0	0.03	0.00	BOTTOM OF POND
6835.0	5.0	0.10	0.31	INCISED ELEV.
6840.0	10.0	2.02	5.62	
6845.0	15.0	2.43	16.76	
6846.2	16.2	2.54	19.75	EMERGENCY SPILLWAY
6849.9	19.9	2.88	30.05	TOP OF EMBANKMENT

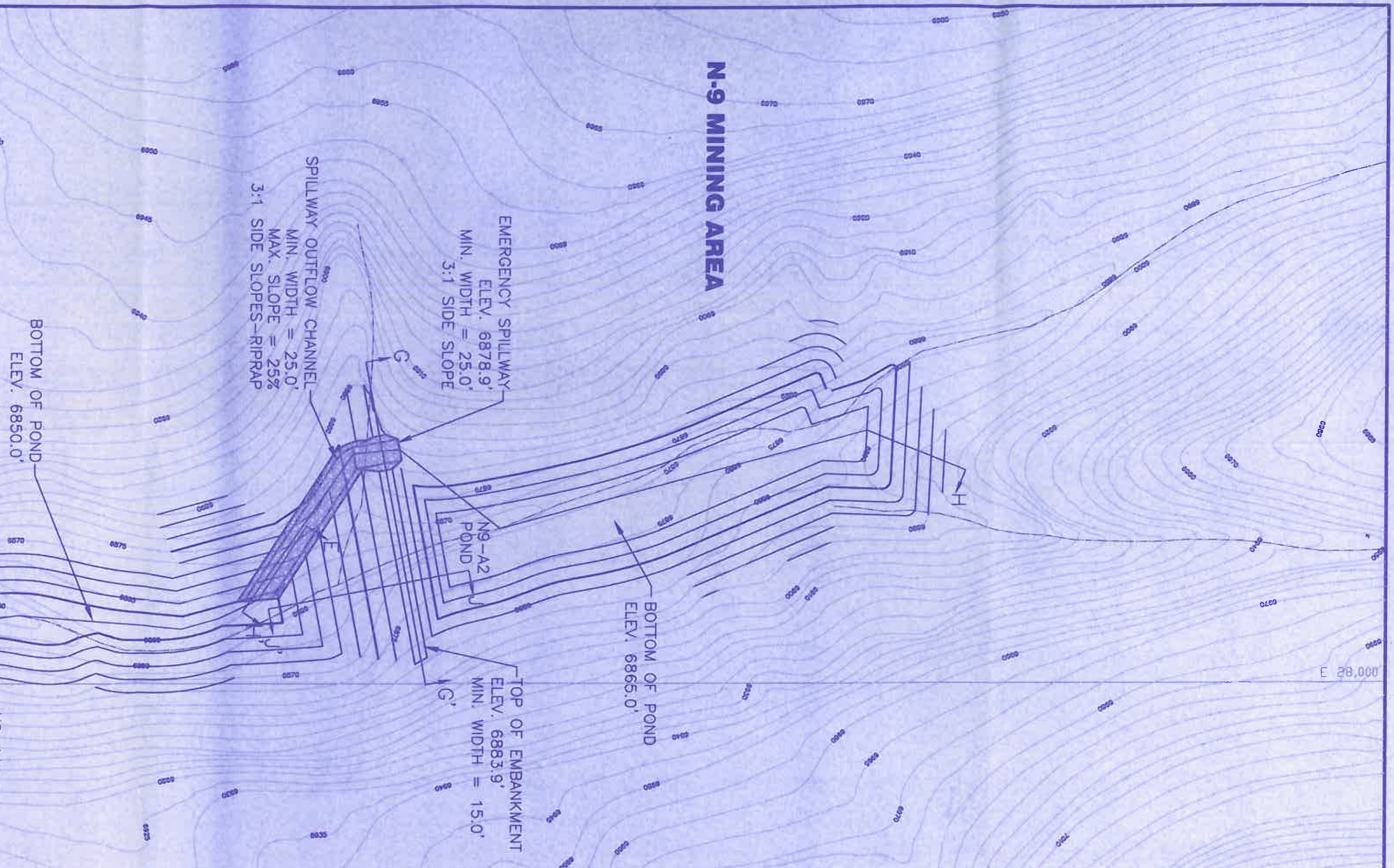
ELEVATION (ft-msl)	S
6850.0	
6855.0	
6860.0	
6865.0	
6865.2	
6869.9	



**SECTION A - A'**  
SCALE: HORIZ. 1" = 100'  
VERT. 1" = 10'

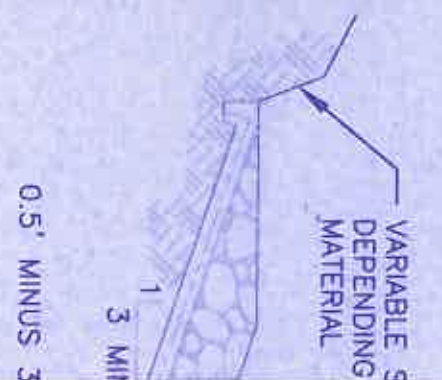
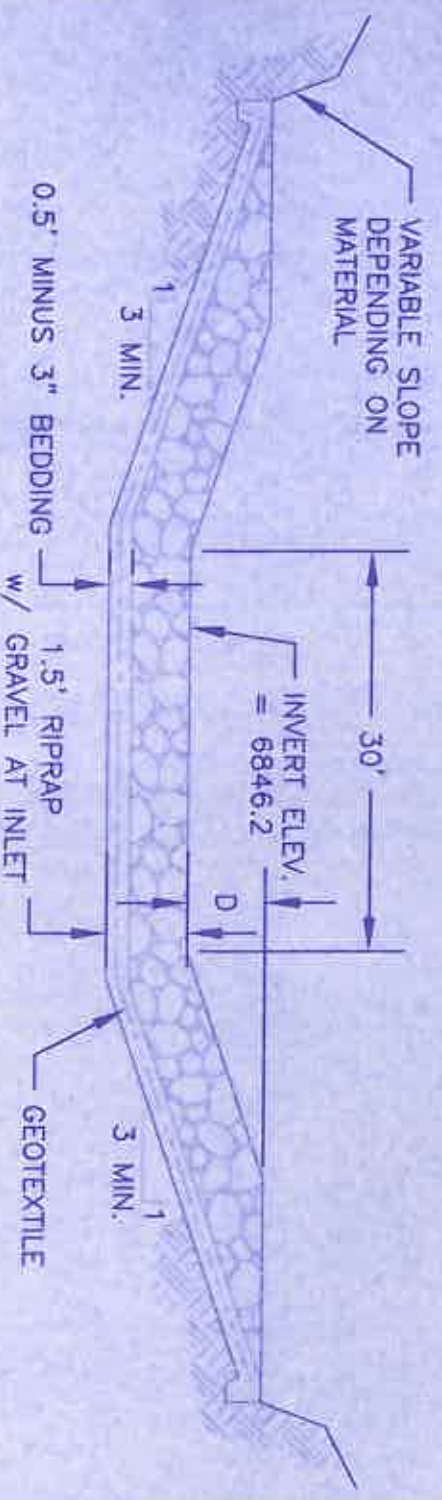
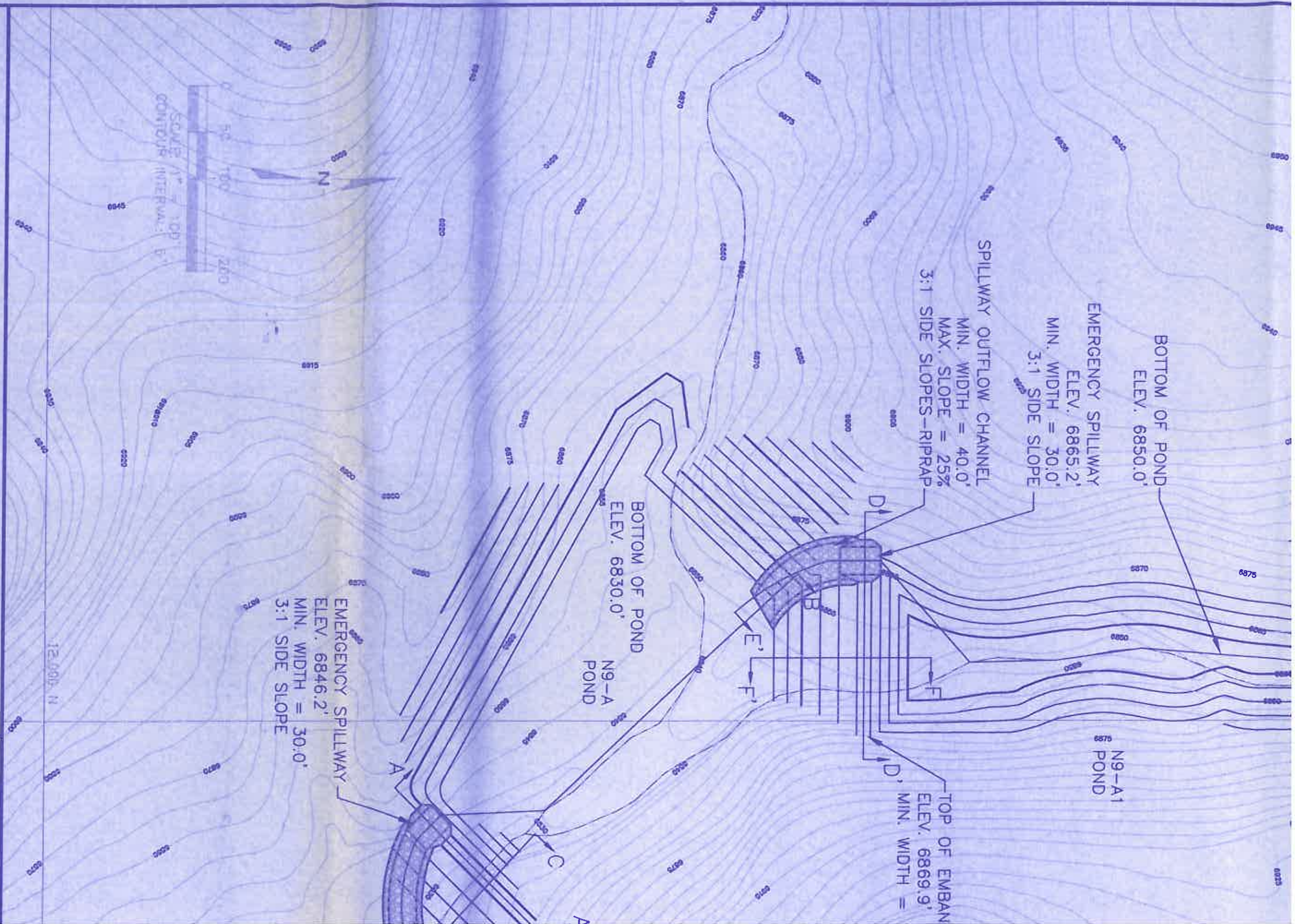


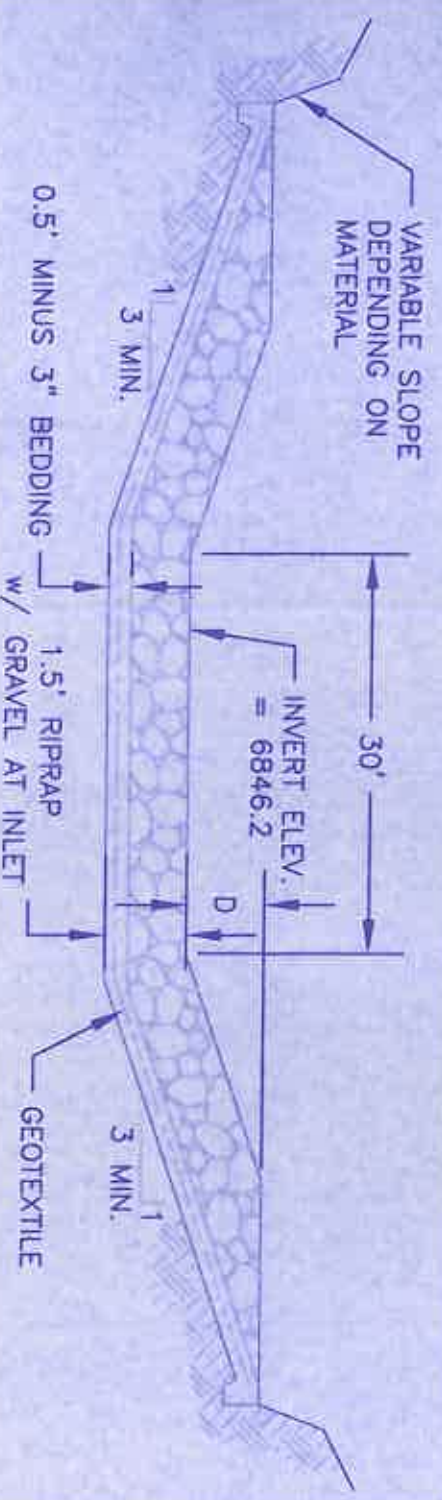
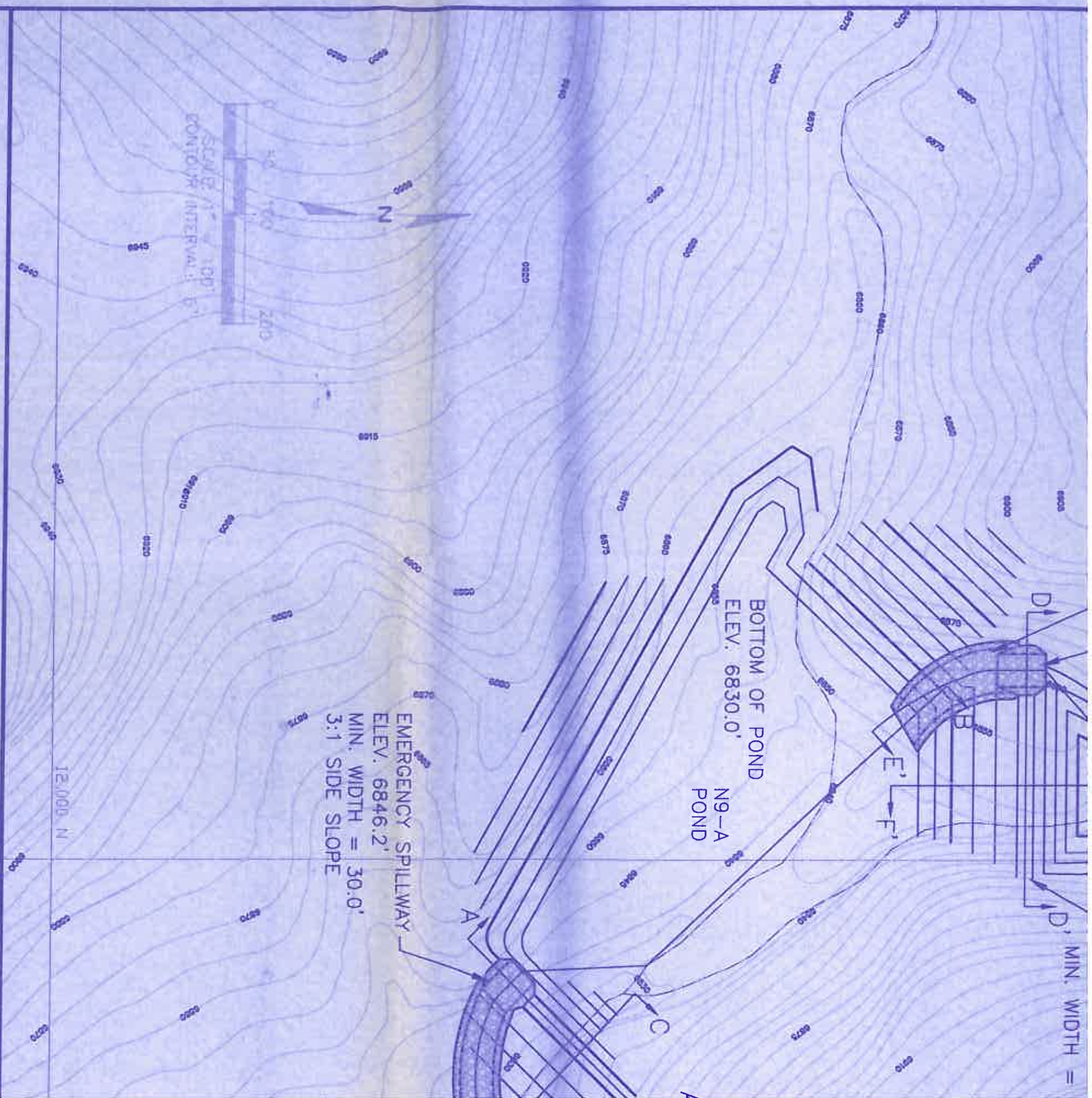
# N-9 MINING AREA



1" = 200'

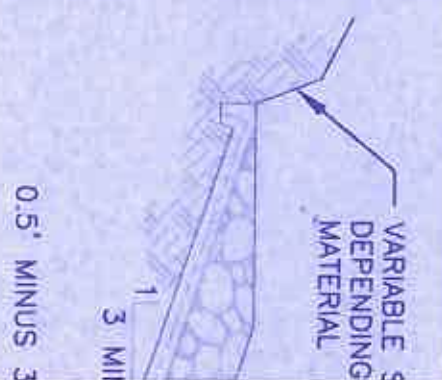
N9-A1

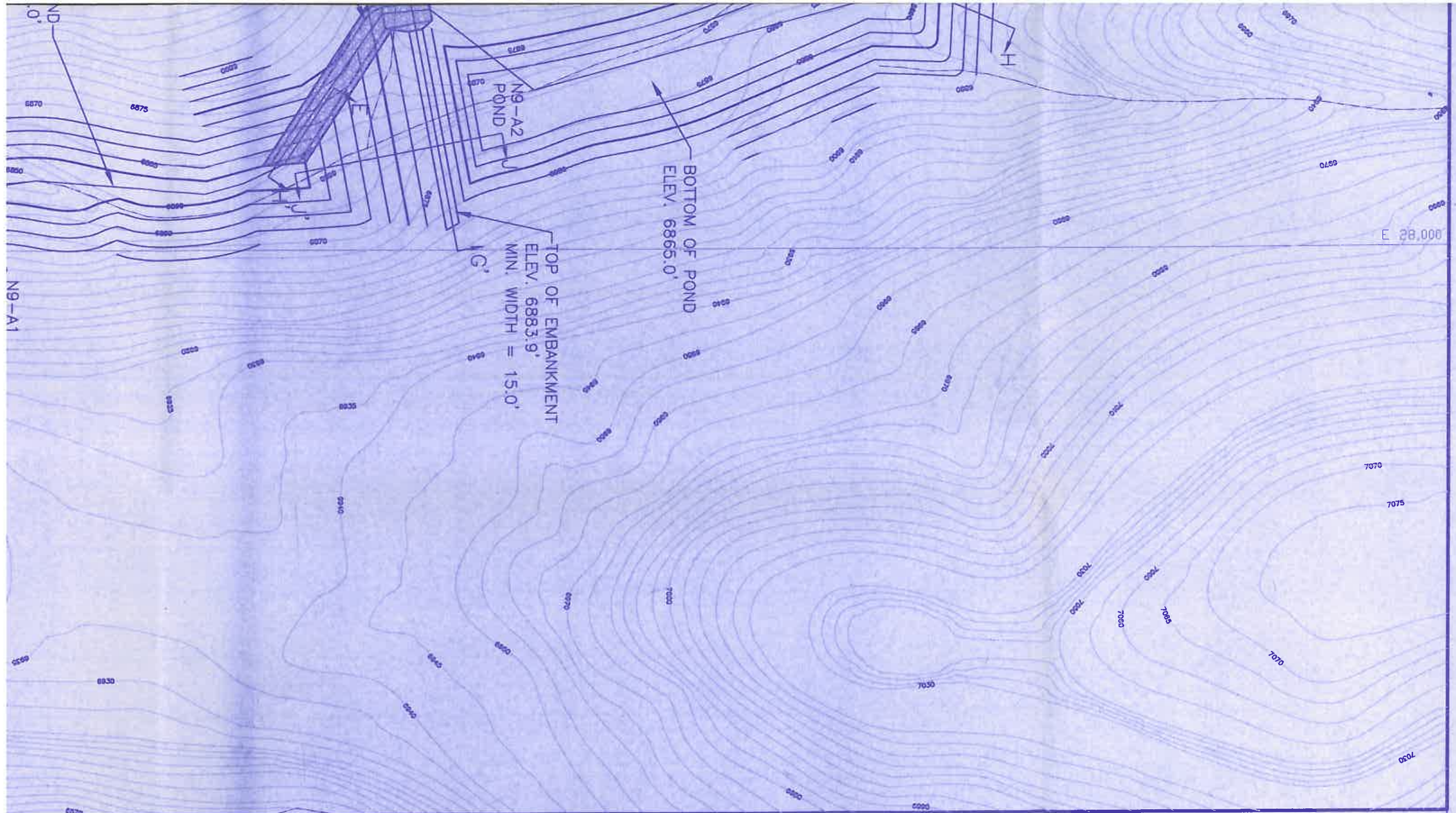




SPILLWAY MIN. D=2.5'  
OUTFLOW CHANNEL MIN. D=2.0'

SECTION OF EMERGENCY SPILLWAY  
NOT TO SCALE  
N9-A, POND





E 28,000

ELEVATION (ft-m)
6830.
6835.
6840.
6845.
6846.
6849.

A  
EMERGENCY SPILLWAY  
ELEV. 6846  
MIN. WIDTH = 30  
3:1 SIDE SLOPE  
6860

DATUM ELEV. 6820

10+  
S  
SCA

6880

D

