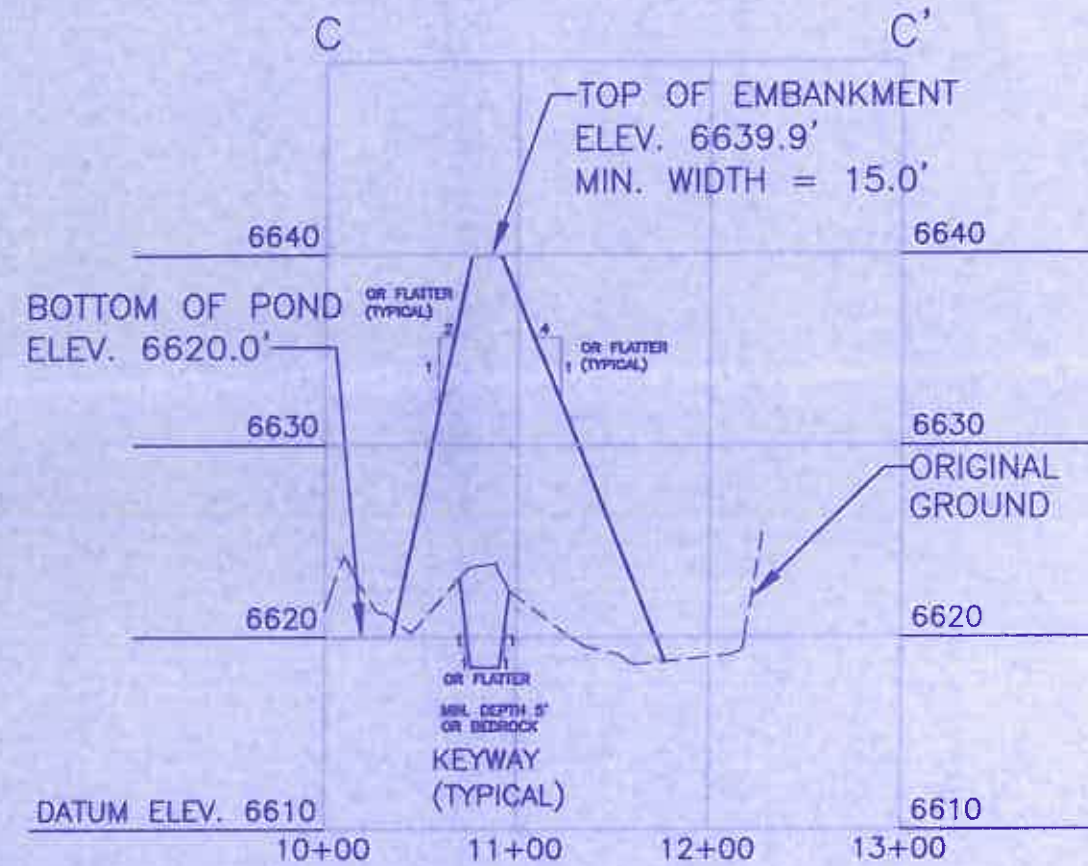
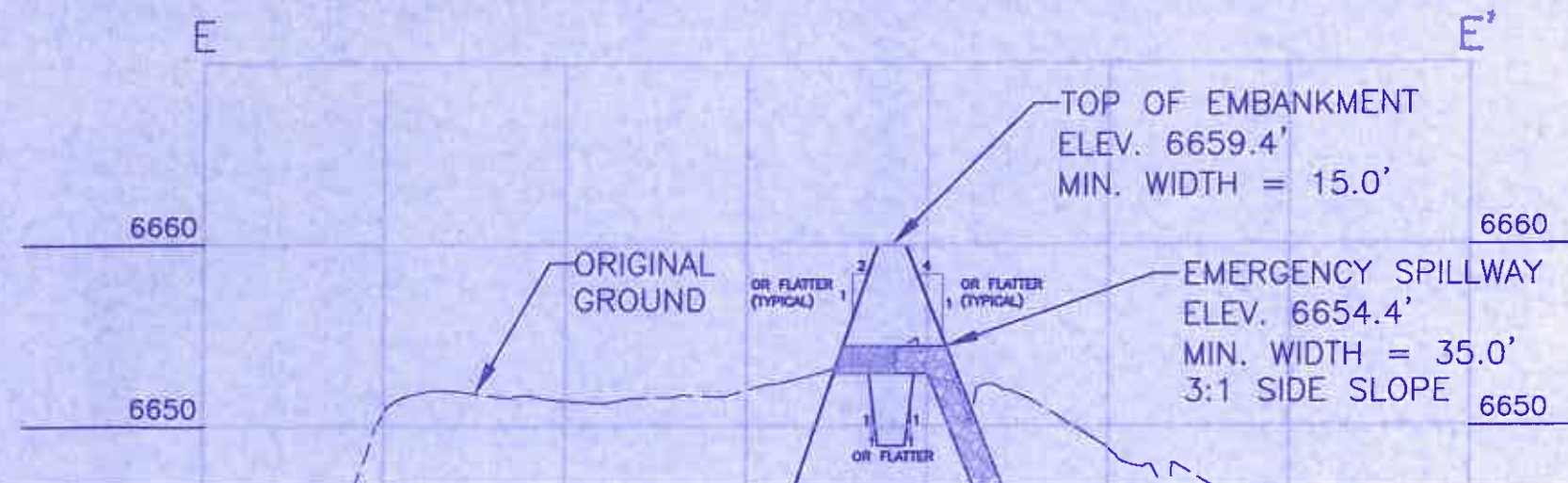
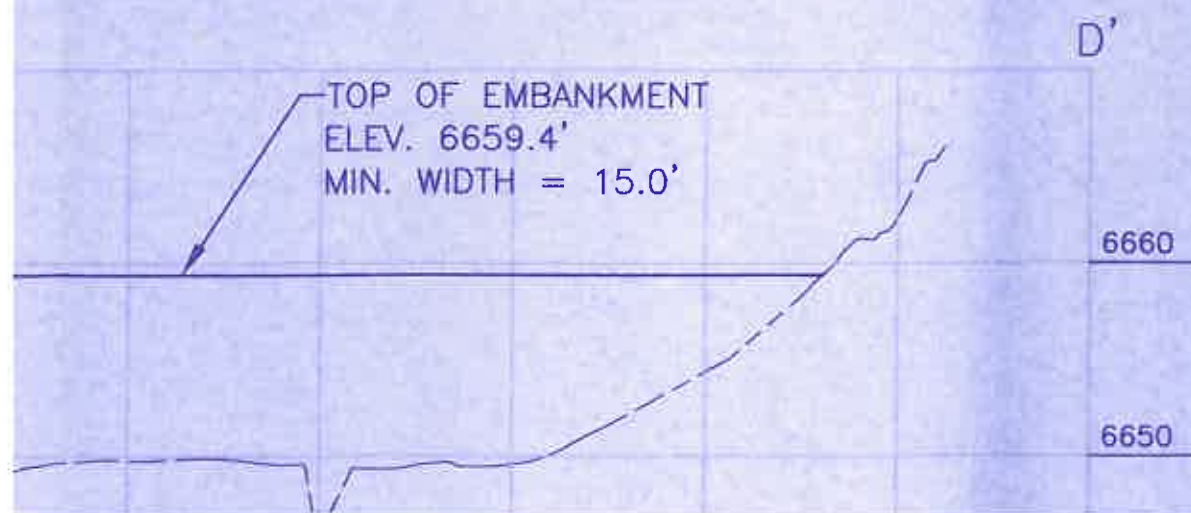
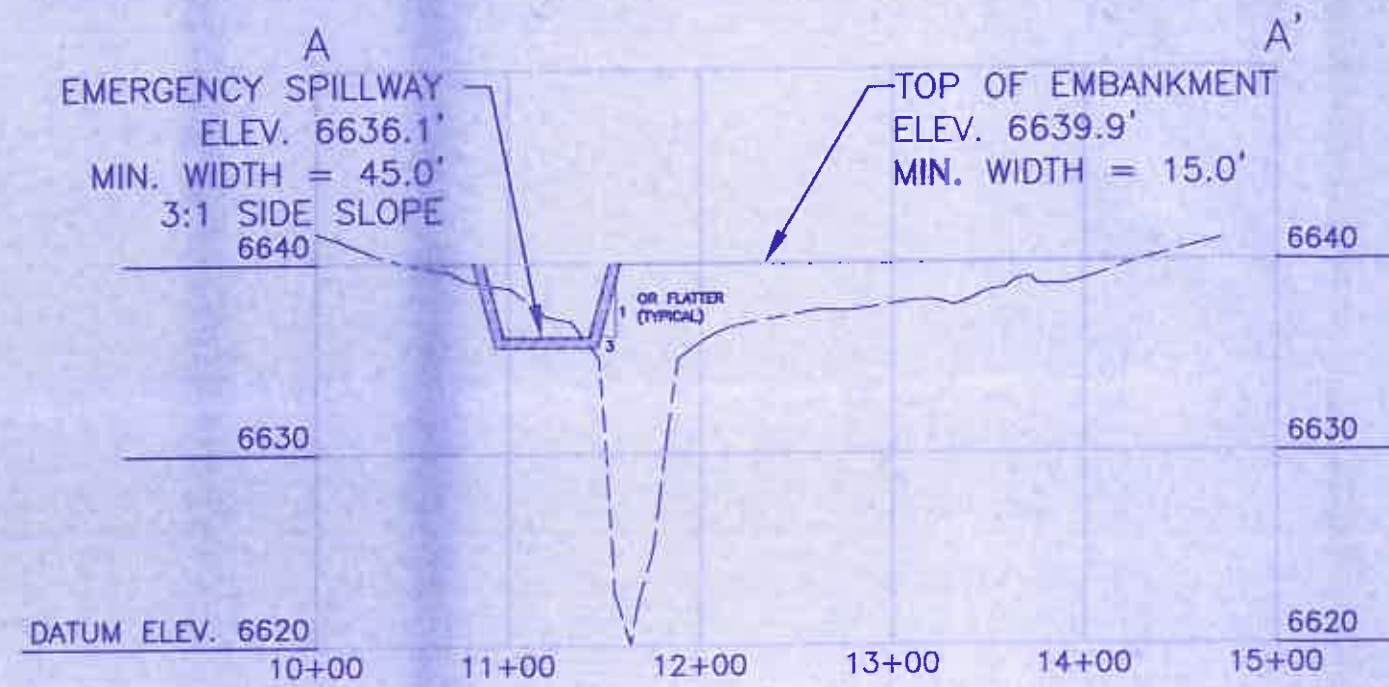
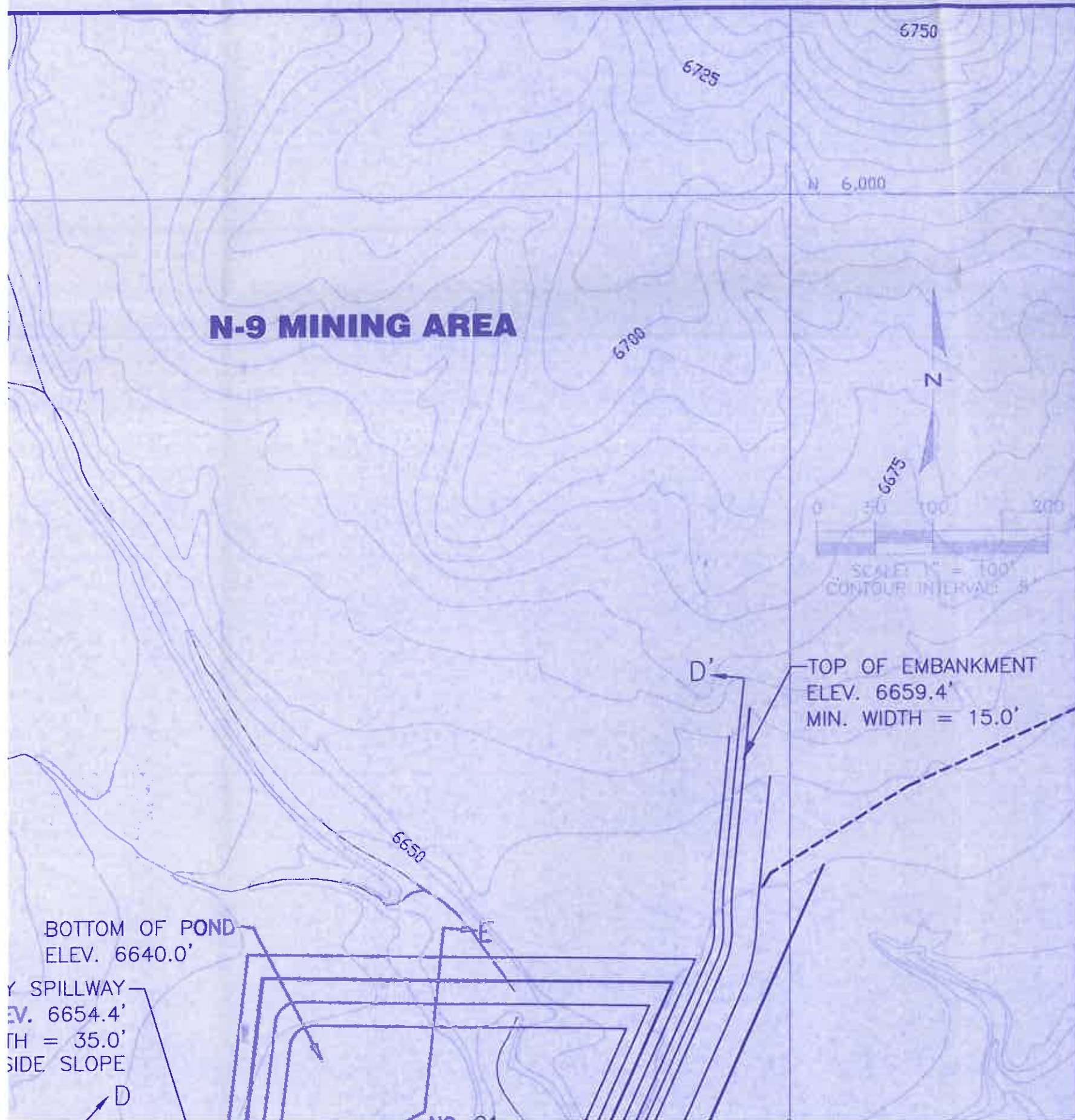


SECTION B - B'
 SCALE: HORIZ. 1" = 100'
 VERT. 1" = 10'

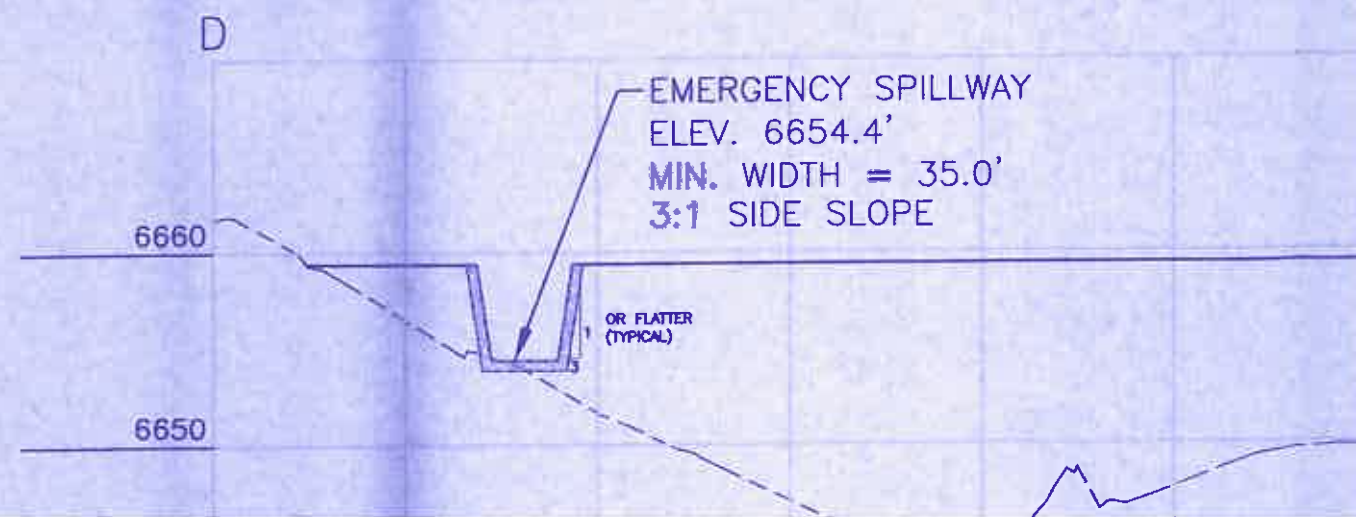


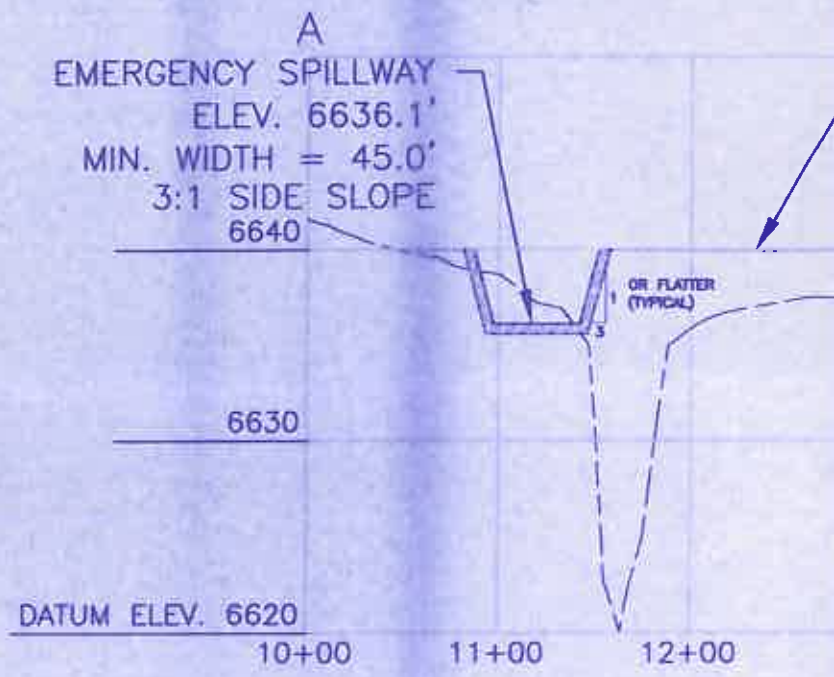
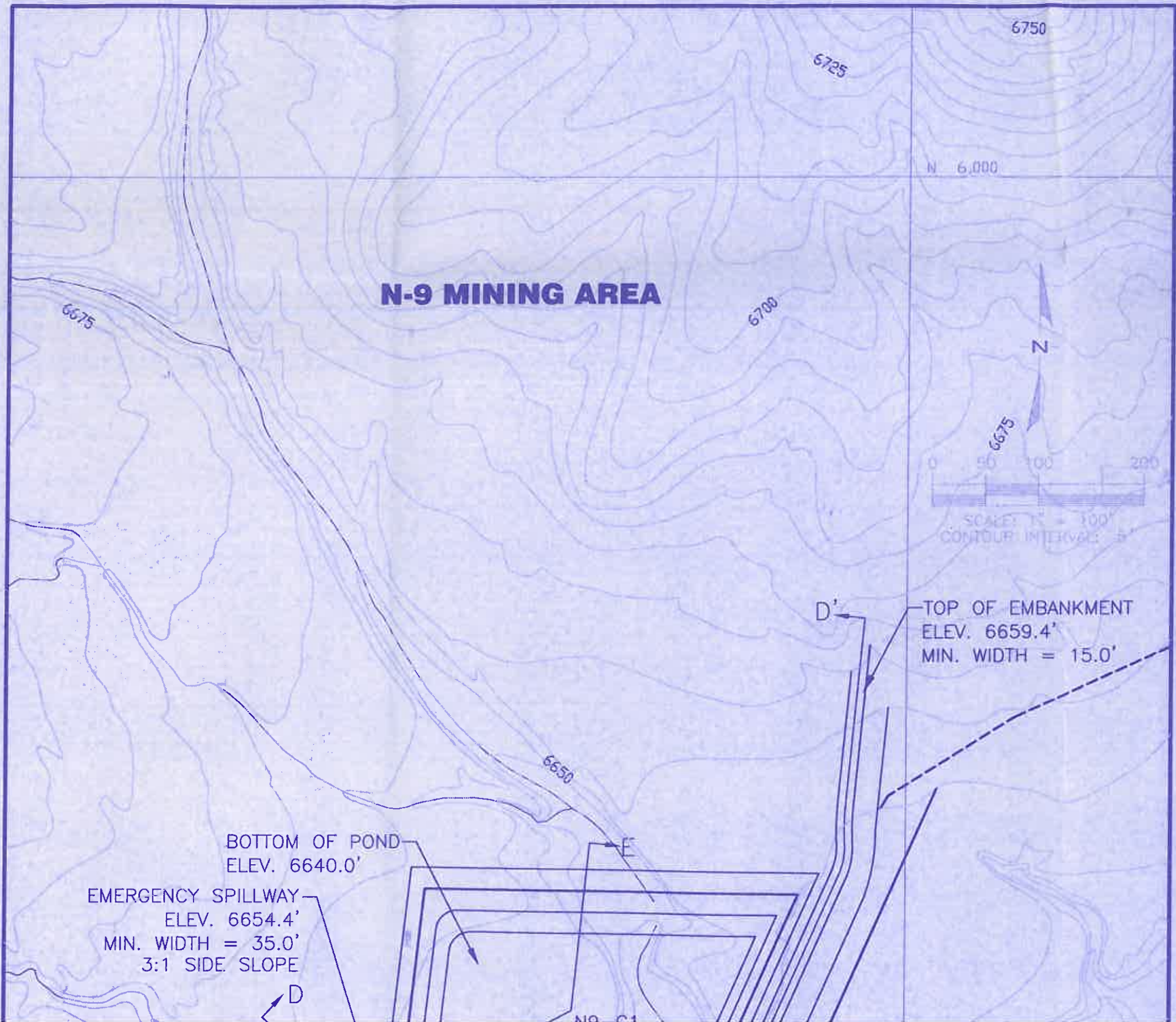
SECTION C - C'
 SCALE: HORIZ. 1" = 100'
 VERT. 1" = 10'



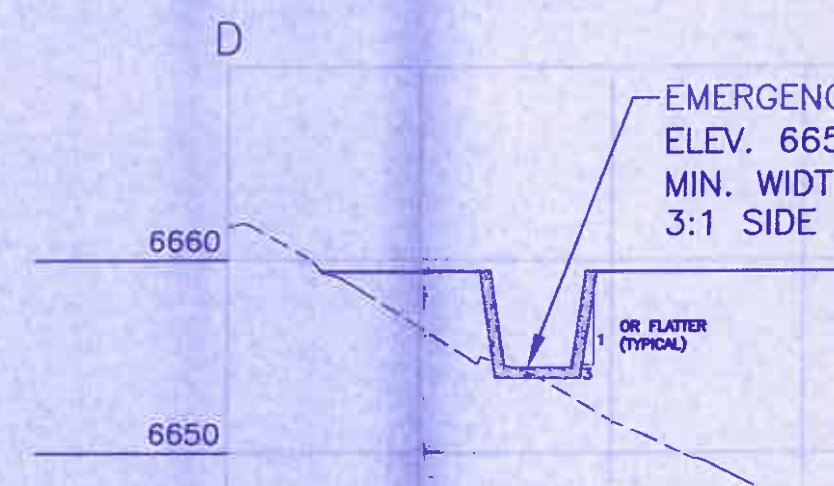


SECTION A - A'
SCALE: HORIZ. 1" = 100'
VERT. 1" = 10'





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

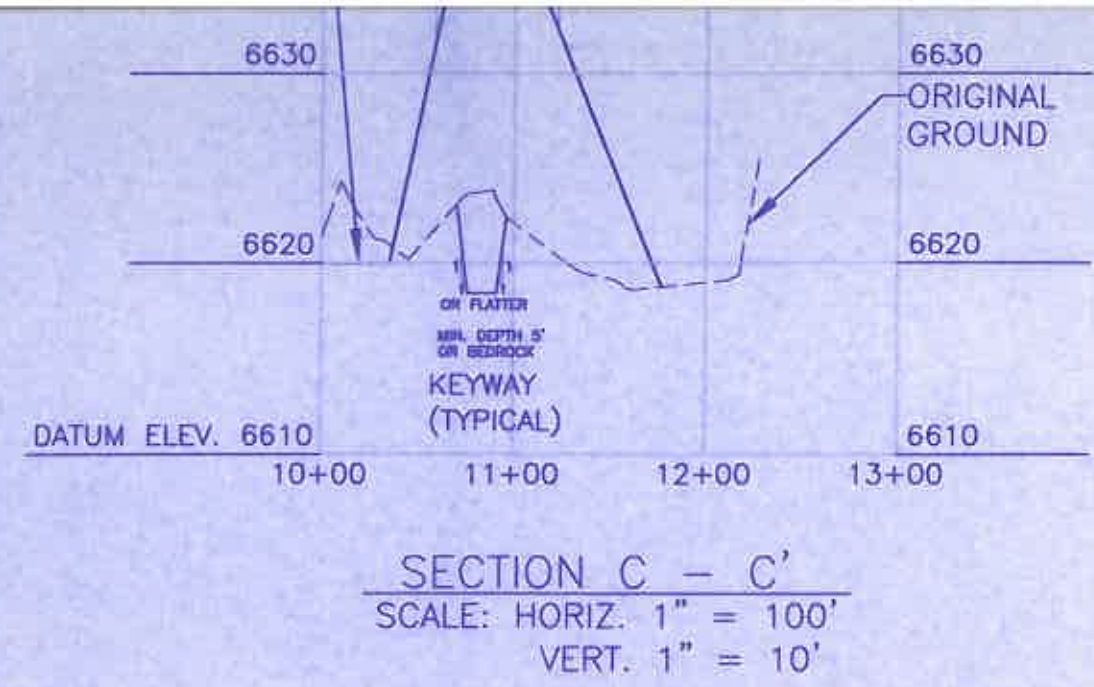
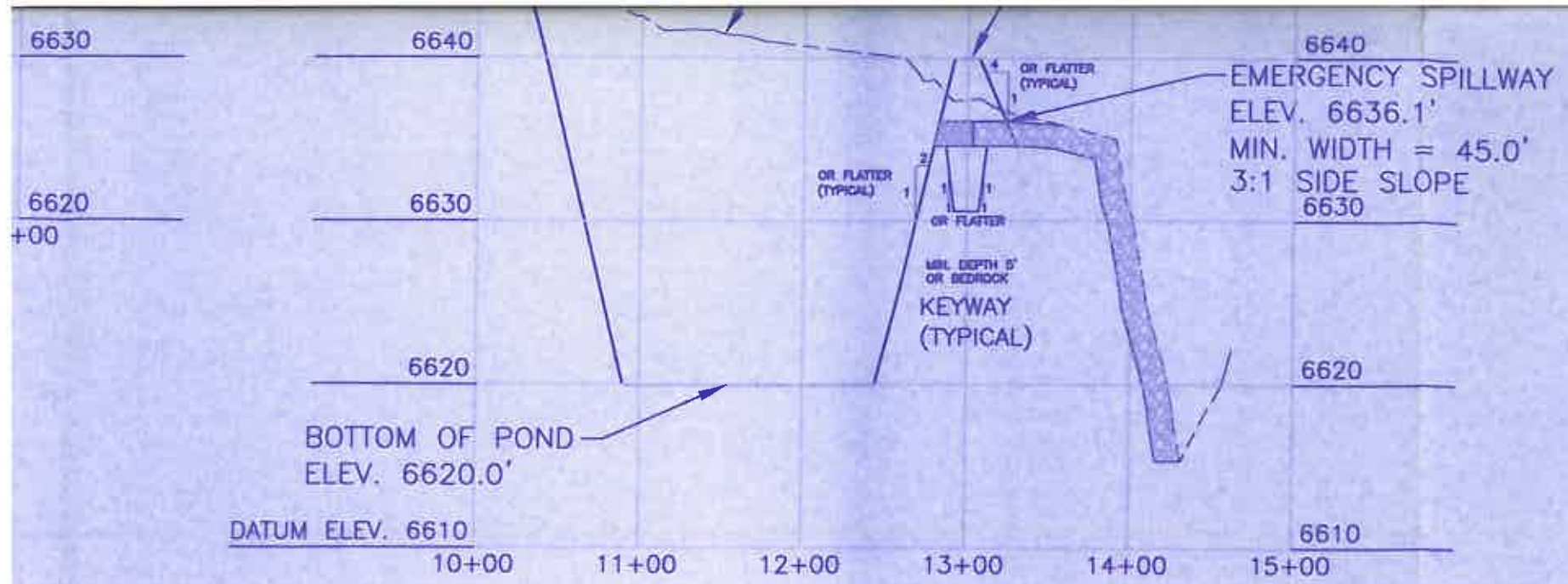


SECTION D-D
EMERGENCY SPILLWAY
ELEV. 6654.4'
MIN. WIDTH = 35.0'
3:1 SIDE SLOPE

D'-
TOP OF EMBANKMENT
ELEV. 6659.4'
MIN. WIDTH = 15.0'

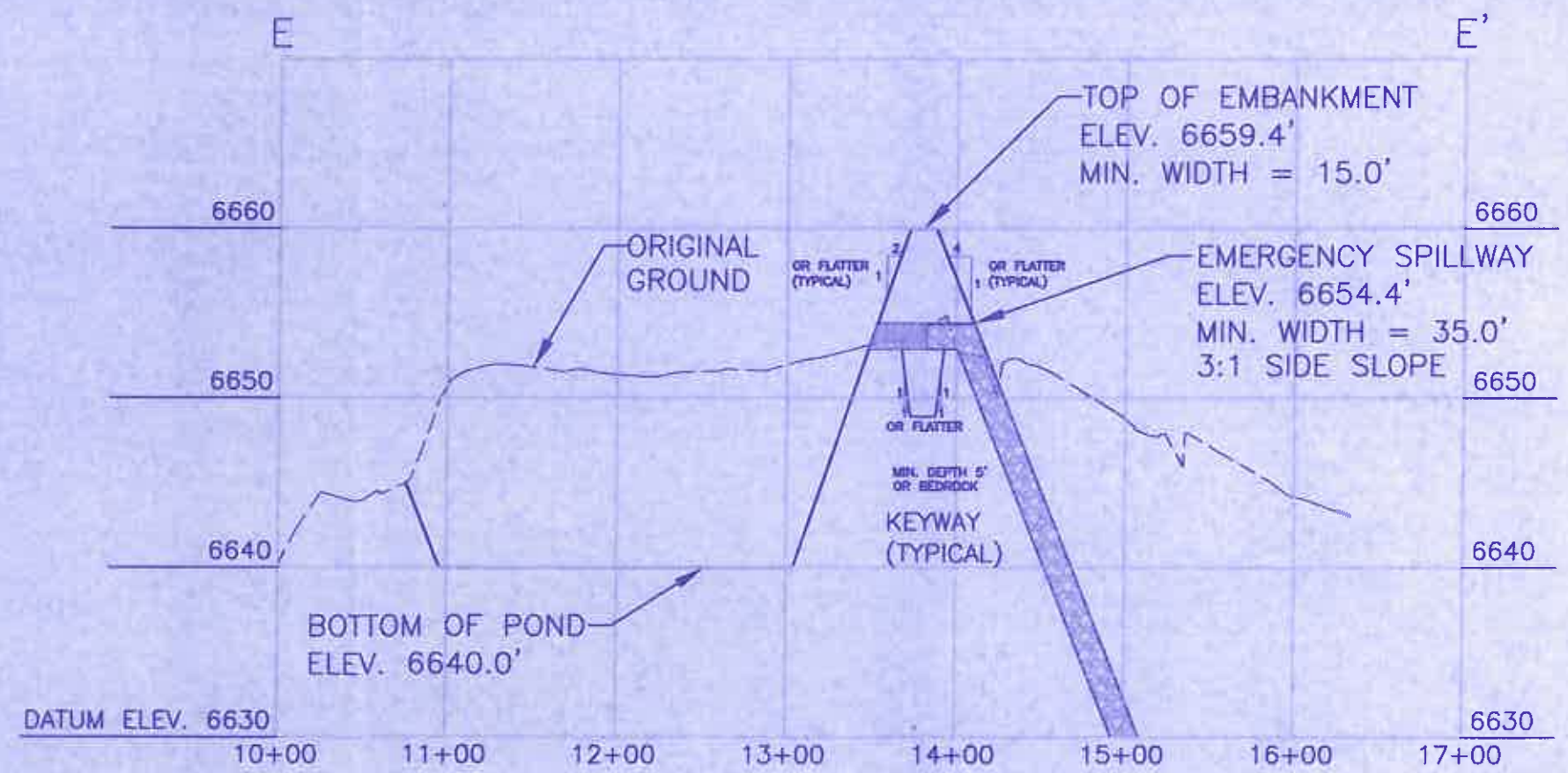
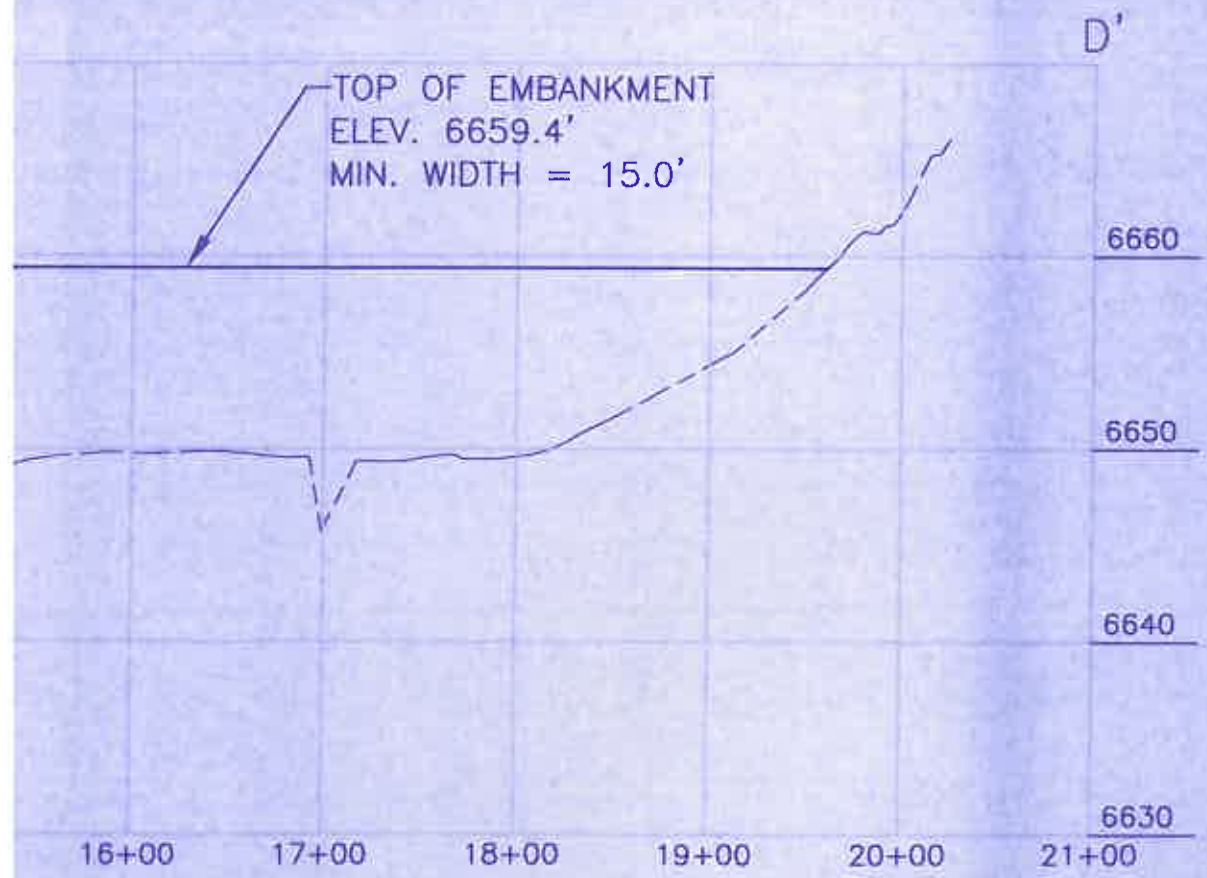
BOTTOM OF POND
ELEV. 6640.0'
EMERGENCY SPILLWAY
ELEV. 6654.4'
MIN. WIDTH = 35.0'
3:1 SIDE SLOPE

SCALE: 1" = 100'
CONTOUR INTERVAL: 5'



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

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



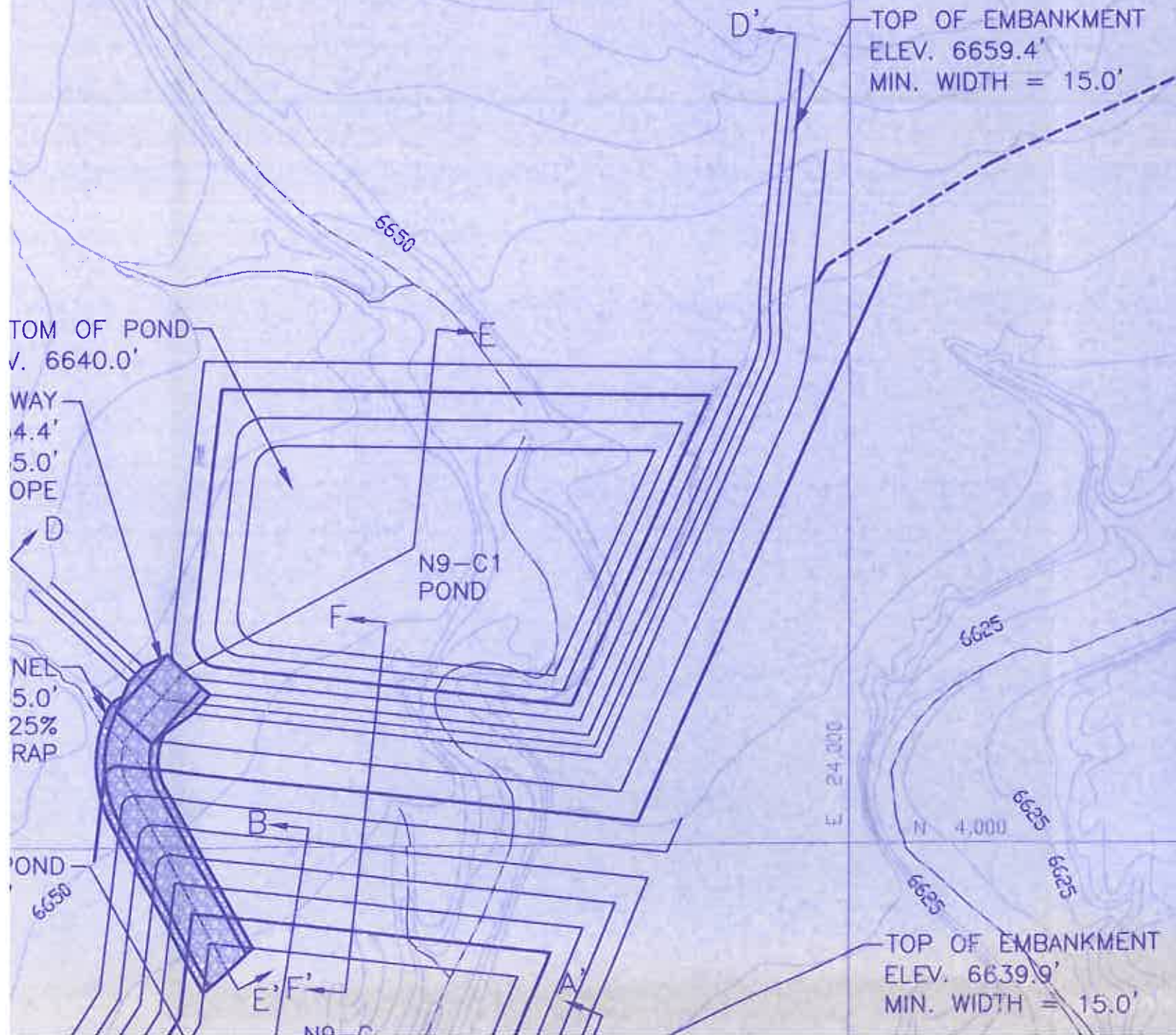
D - D'
SCALE: HORIZ. 1" = 100'
VERT. 1" = 10'

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

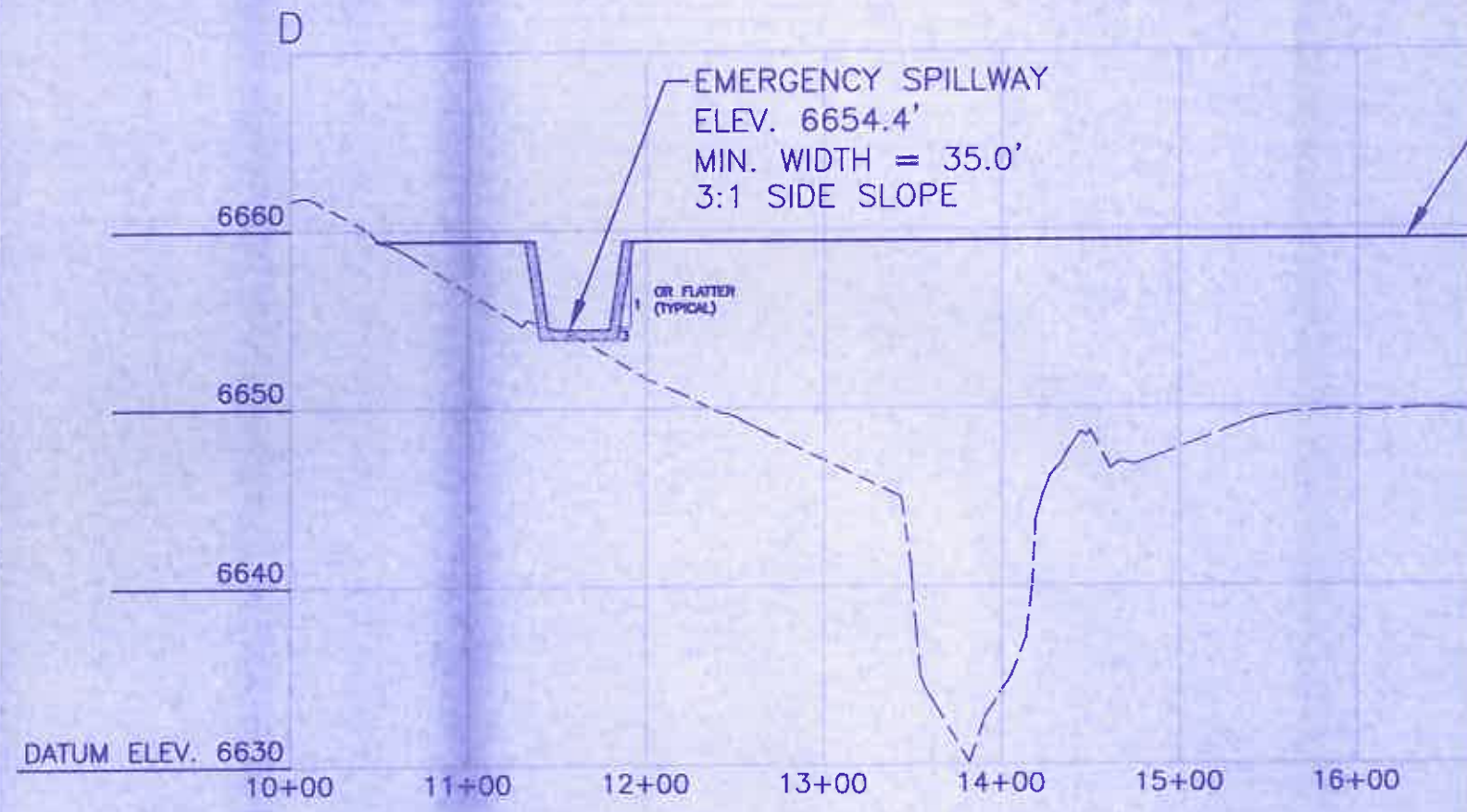
N9-C POND STAGE CAPACITY TABLE

ELEVATION (ft-msl)	STAGE (ft)	AREA (acres)	TOTAL CAPACITY (ac-ft)	DESCRIPTION
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N-9 MINING AREA



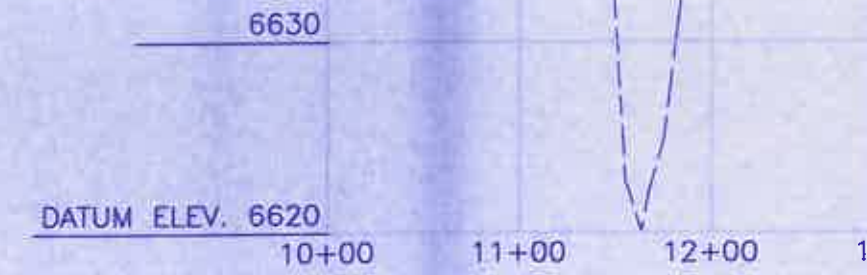
SECTION A - A'
 SCALE: HORIZ. 1" = 100'
 VERT. 1" = 10'



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

VARIABLE SLOPE
 DEPENDING ON

N-9 MINING AREA



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

D'
TOP OF EMBANKMENT
ELEV. 6659.4'
MIN. WIDTH = 15.0'

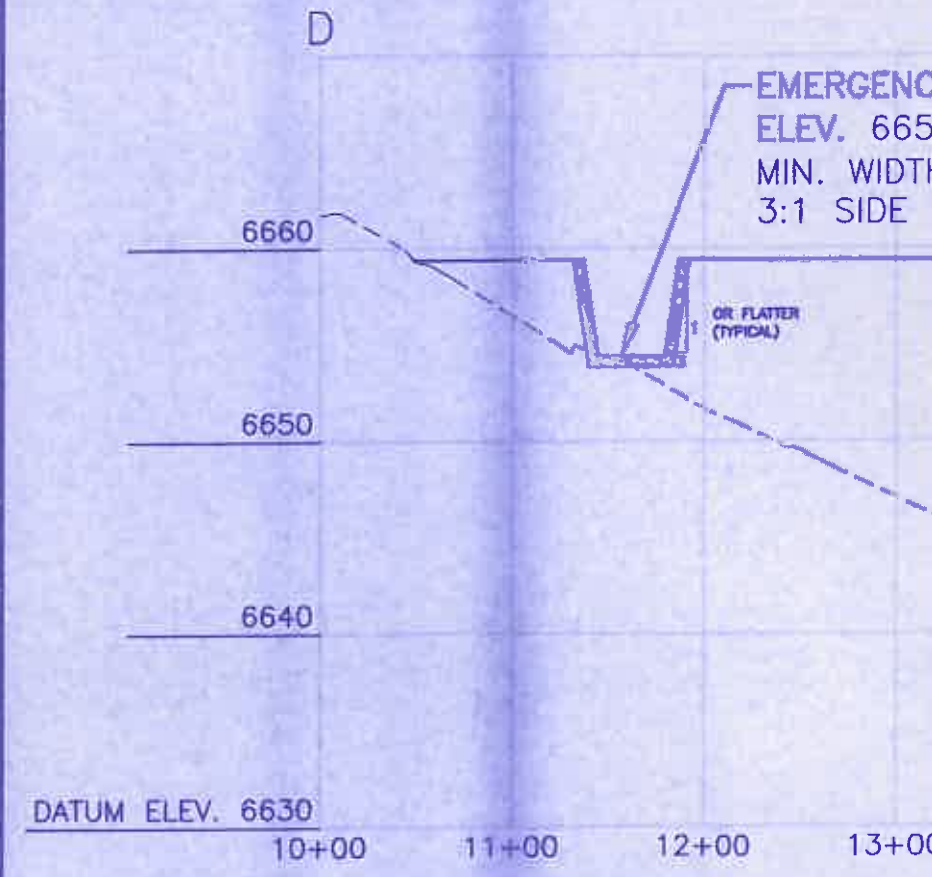
BOTTOM OF POND
ELEV. 6640.0'

EMERGENCY SPILLWAY
ELEV. 6654.4'
MIN. WIDTH = 35.0'
3:1 SIDE SLOPE

SPILLWAY OUTFLOW CHANNEL
MIN. WIDTH = 35.0'
MAX. SLOPE = 25%
3:1 SIDE SLOPES-RIPRAP

BOTTOM OF POND
ELEV. 6620.0'

TOP OF EMBANKMENT
ELEV. 6639.9'
MIN. WIDTH = 15.0'



D
DATUM ELEV. 6630
10+00 11+00 12+00 13+00

VARIABLE SLOPE
DEPENDING ON

N9-C1
POND

N9-C TEMPORARY

N9-C

E 24.000

N 4.000

E 24.000

N 4.000

6675

6700

6650

6675

6675

6650

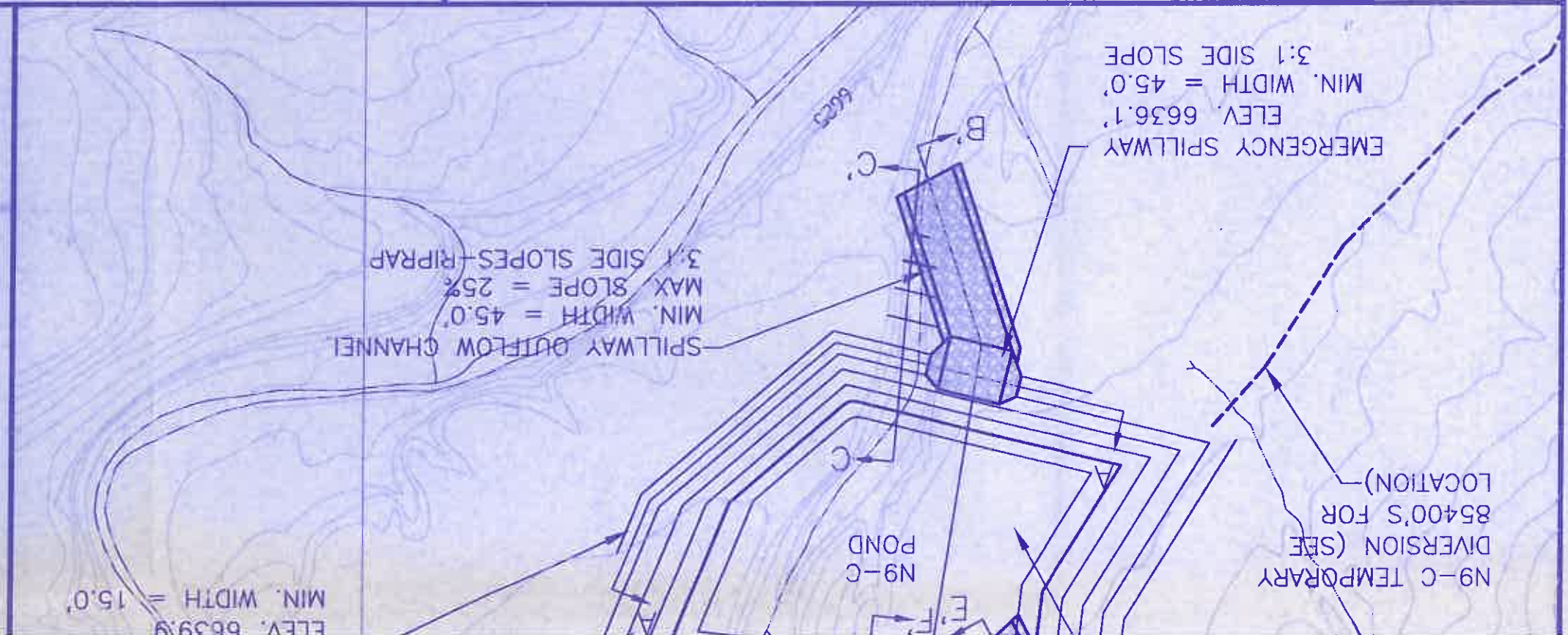
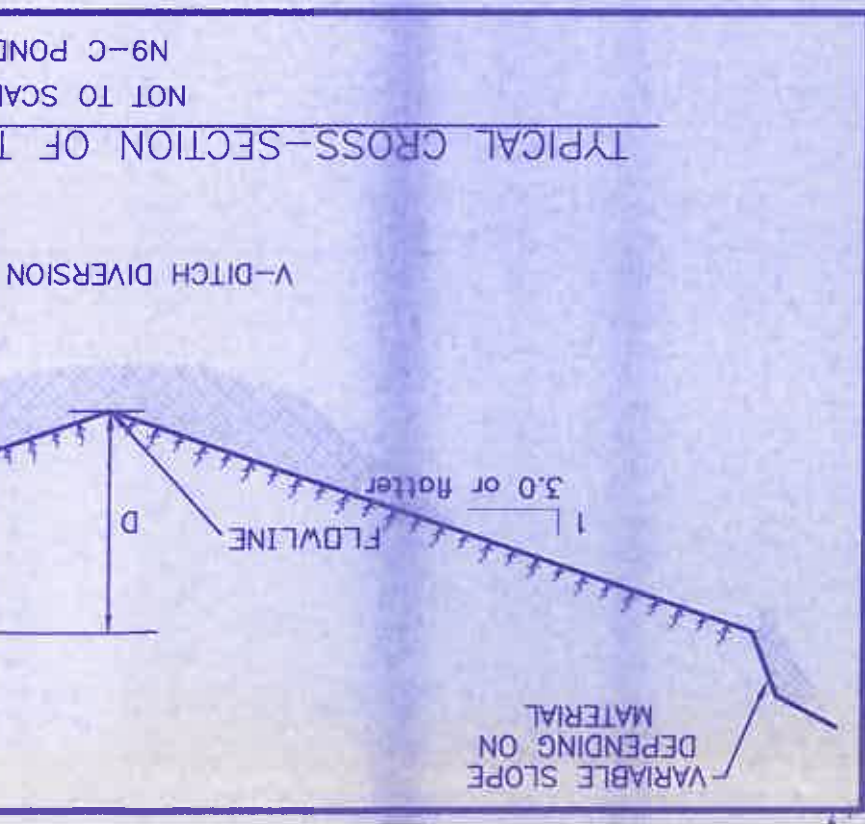
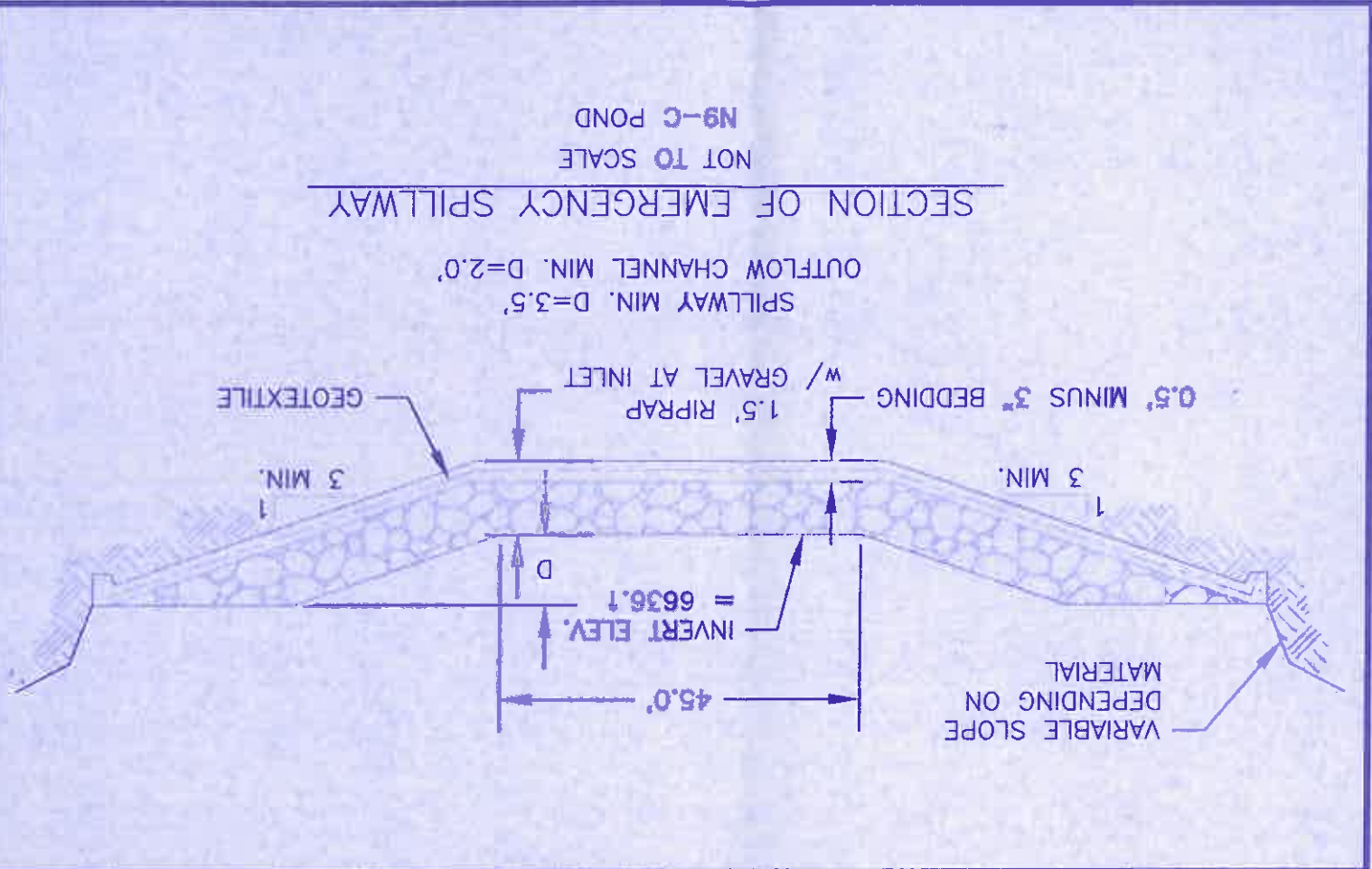
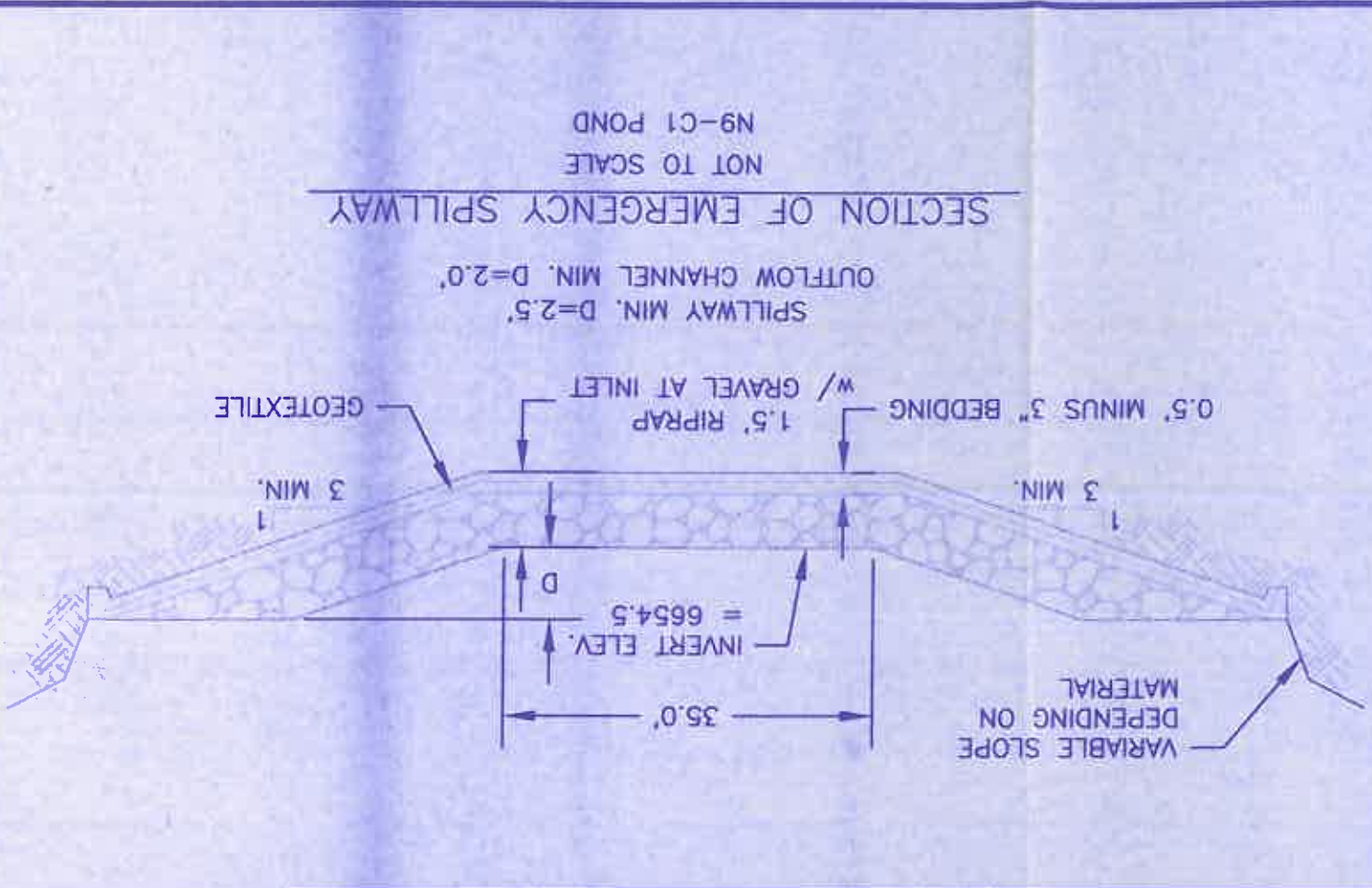
6625

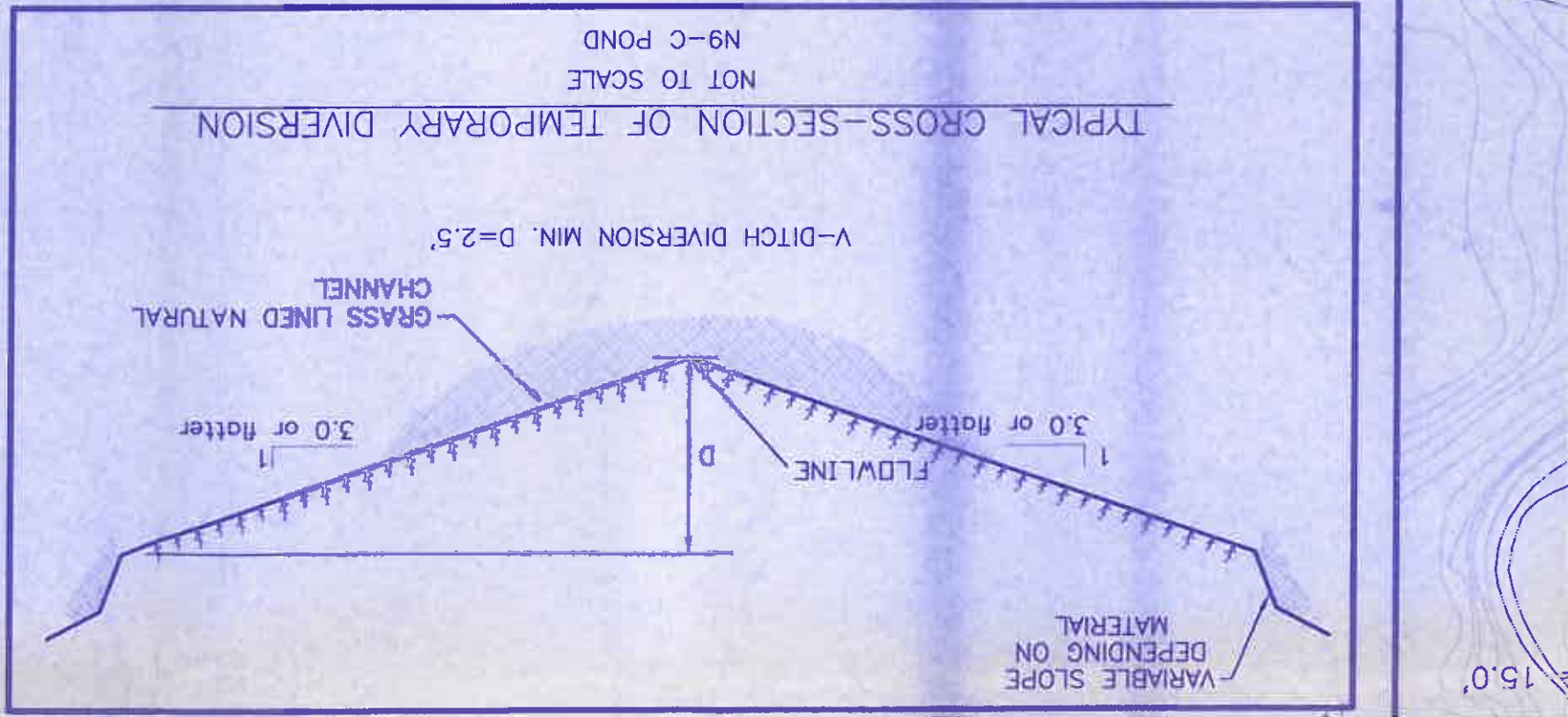
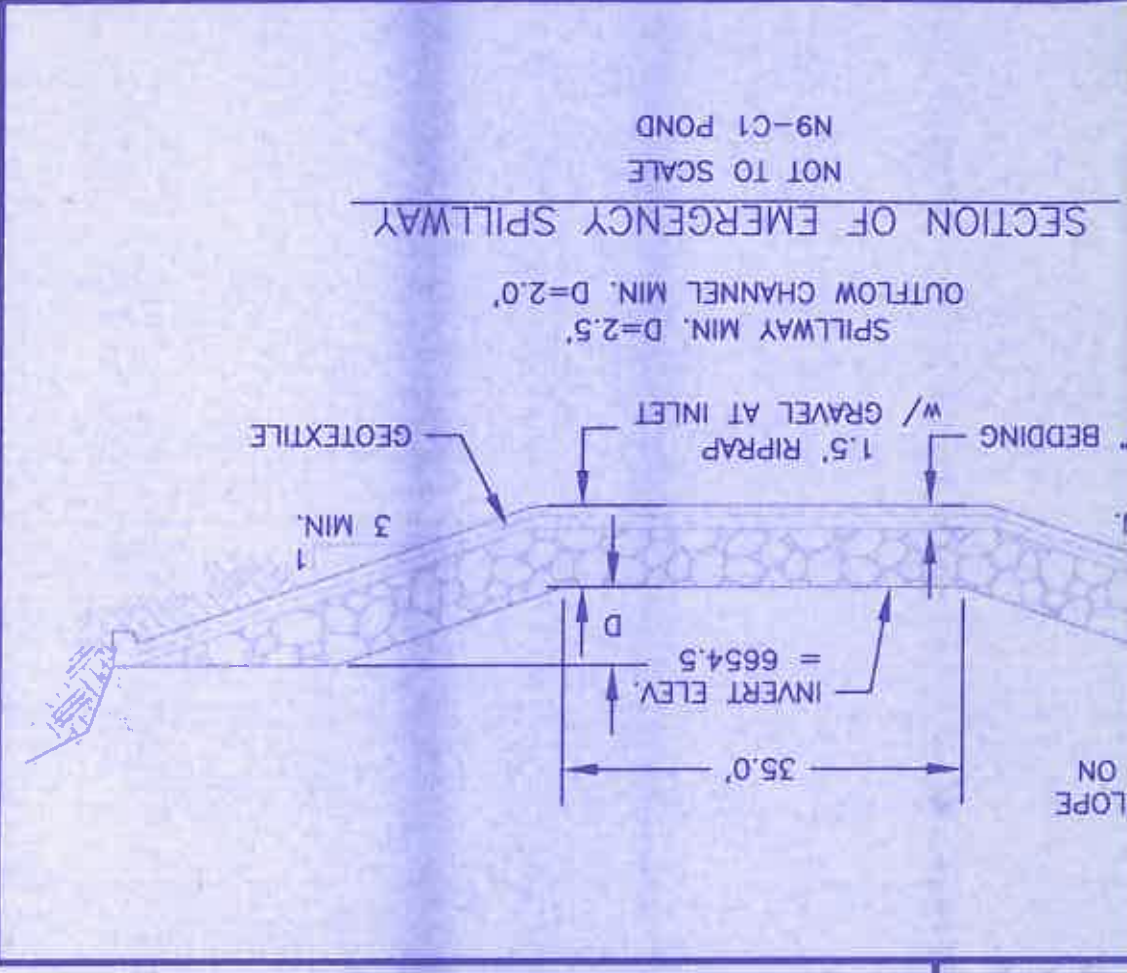
6625

6625

6625

6625





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

ARIZONA P.E. 18782
Date: **DEC 23 2004**
James G. Schlenvogt
Engineering Supervisor
Pedernales Western Coal Company

Professional Engineer's Certification
18782
James G. Schlenvogt
Arizona P.E. 18782

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

DESCRIPTION	TOTAL CAPACITY (ac-ft)	AREA (acres)	STAGE (ft)	ELEVATION (ft-msl)
BOTTOM OF POND	0.00	0.91	0.0	6640.0
INCISED ELEV.	5.29	1.21	5.0	6645.0
EMERGENCY SPILLWAY	19.62	1.86	14.4	6654.4
TOP OF EMBANKMENT	35.27	4.69	19.4	6659.4

N9-C1 POND STAGE CAPACITY TABLE

DESCRIPTION	CAPACITY (ac-ft)	AREA (acres)	STAGE (ft)	ELEVATION (ft-msl)
BOTTOM OF POND	0.00	0.74	0.0	6620.0
INCISED ELEV.	4.37	1.01	5.0	6625.0
EMERGENCY SPILLWAY	19.63	1.77	16.1	6636.1
TOP OF EMBANKMENT	27.14	2.08	19.9	6639.9

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

PROFESSIONAL ENGINEER'S CERTIFICATION

- NOTES:
- 1) General location, see Drawing No. 85400, Sheet K-6 & K-7 and Drawing No. 85405.
 - 2) See Chapter 6, Black Mesa PAP for Construction Specifications.
 - 3) See Vol. 2, Chapter 6, Attachment D, Sections 1-3 for description of Geotechnical Evaluation.
 - 4) Salvage topsoil in accordance with approved topsoil salvage plan.
 - 5) Reclamation of the disturbed area above the high waterline shall be in accordance with the approved reclamation plan.
 - 6) Ponding area side slopes, typical 3:1 slope or flatter and blend into natural topography.

EXHIBIT # 1	
PROPOSED N9-C & C1	
SEDIMENTATION POND DESIGN	
PEABODY WESTERN COAL COMPANY P. O. BOX 650 KAYENTA, ARIZONA 86033	
DESIGNED BY: GA	SCALE: AS NOTED
DRAWN BY: AS	DRAWING DATE: 11-22-04
CHECKED BY: JGS	PHOTO DATE: 05-83
CONTOUR INTERVAL: 5 FT. DWG FILE: POND N9-C,C1,C2,C3.DWG	

ELEVATION (ft-msl)	STAGE (ft)	AREA (acres)	TOTAL CAPACITY (ac-ft)	DESCRIPTION
6659.4	19.4	4.69	35.27	TOP OF EMBANKMENT
6655.0	15.0	1.91	20.76	
6654.4	14.4	1.86	19.62	EMERGENCY SPILLWAY
6650.0	10.0	1.54	12.14	
6645.0	5.0	1.21	5.29	INCISED ELEV.
6640.0	0.0	0.91	0.00	BOTTOM OF POND

N9-C1 POND STAGE CAPACITY TABLE

ELEVATION (ft-msl)	STAGE (ft)	AREA (acres)	TOTAL CAPACITY (ac-ft)	DESCRIPTION
6639.9	19.9	2.08	27.14	TOP OF EMBANKMENT
6636.1	16.1	1.77	19.63	EMERGENCY SPILLWAY
6635.0	15.0	1.68	17.73	
6630.0	10.0	1.33	10.21	
6625.0	5.0	1.01	4.37	INCISED ELEV.
6620.0	0.0	0.74	0.00	BOTTOM OF POND

