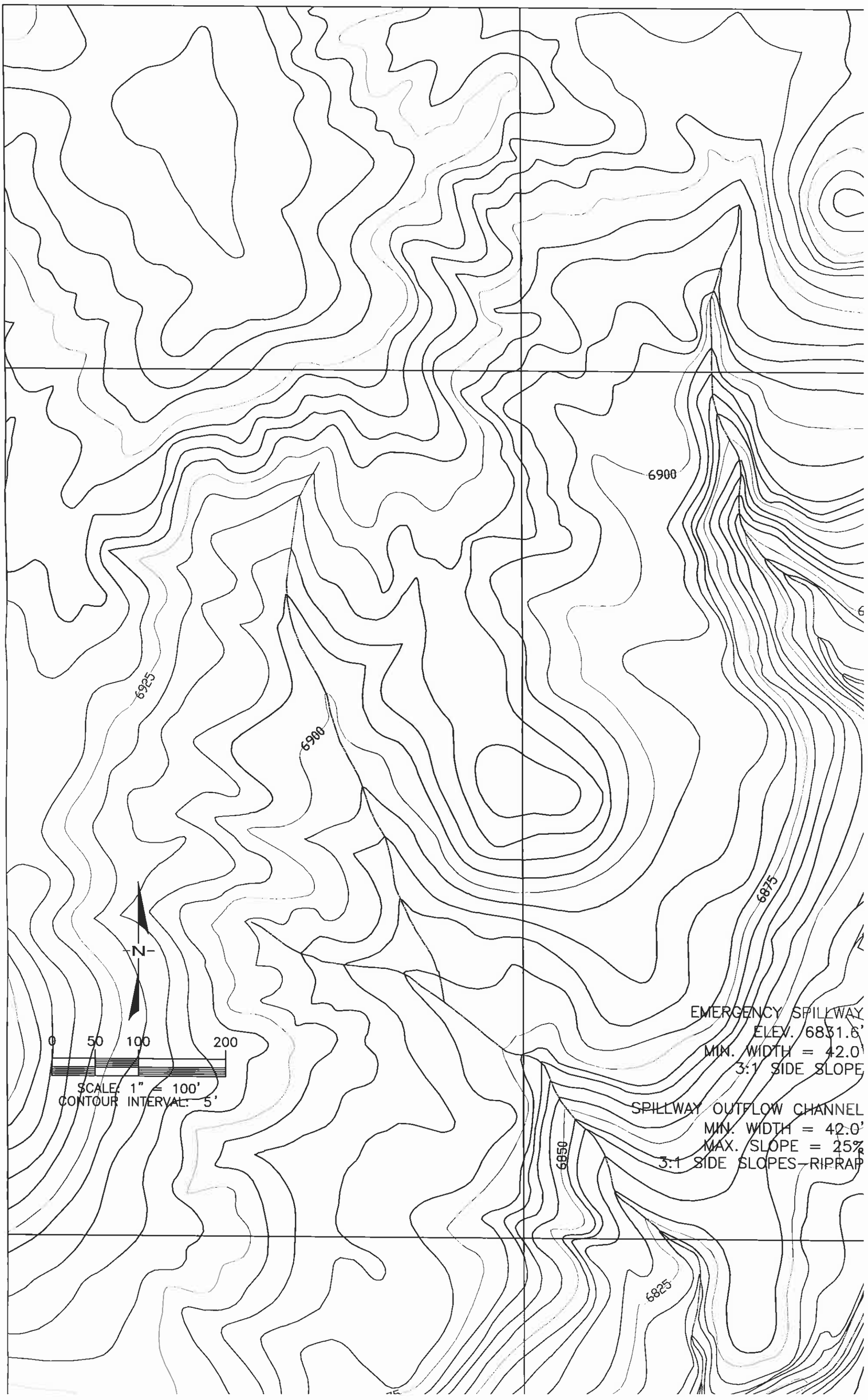
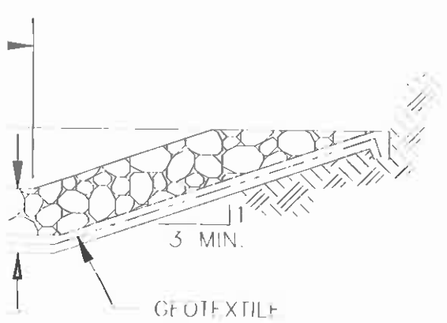

6900
6925
6900
6875
6850
6825
N
0 50 100 200
SCALE: 1" = 100'
CONTOUR INTERVAL: 5'
EMERGENCY SPILLWAY
ELEV. 6831.6'
MIN. WIDTH = 42.0'
3:1 SIDE SLOPE
SPILLWAY OUTFLOW CHANNEL
MIN. WIDTH = 42.0'
MAX. SLOPE = 25%
3:1 SIDE SLOPES-RIPRAP

6785.5	15.5	1.87	19.66	EMERGENCY SPILLWAY
6789.9	19.9	2.31	29.06	TOP OF EMBANKMENT

N9-J2 POND STAGE CAPACITY TABLE

ELEVATION (ft-msl)	STAGE (ft)	AREA (acres)	TOTAL CAPACITY (ac-ft)	DESCRIP
6815.0	0.0	0.59	0.00	BOTTOM O
6820.0	5.0	0.86	3.63	INCISED
6825.0	10.0	1.30	8.77	
6830.0	15.0	1.83	16.34	
6831.6	16.6	2.14	19.52	EMERGENCY
6834.9	19.9	2.79	27.89	TOP OF EMB

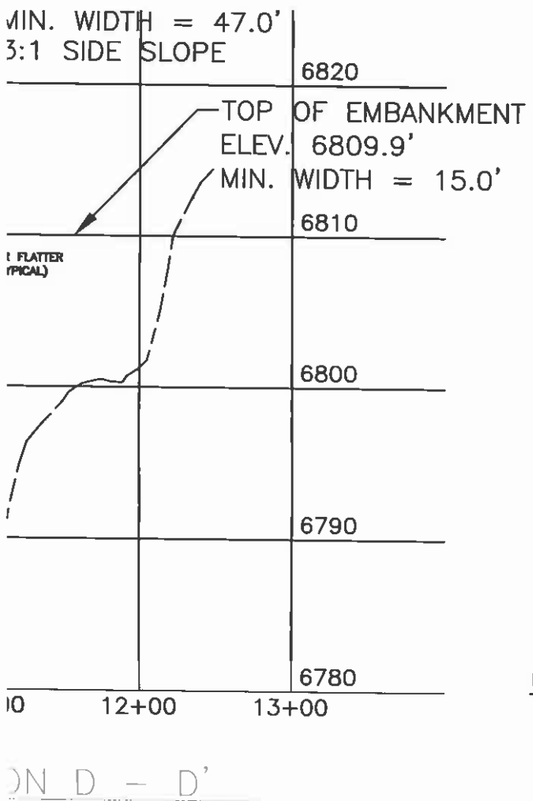


5'
D=2.0'

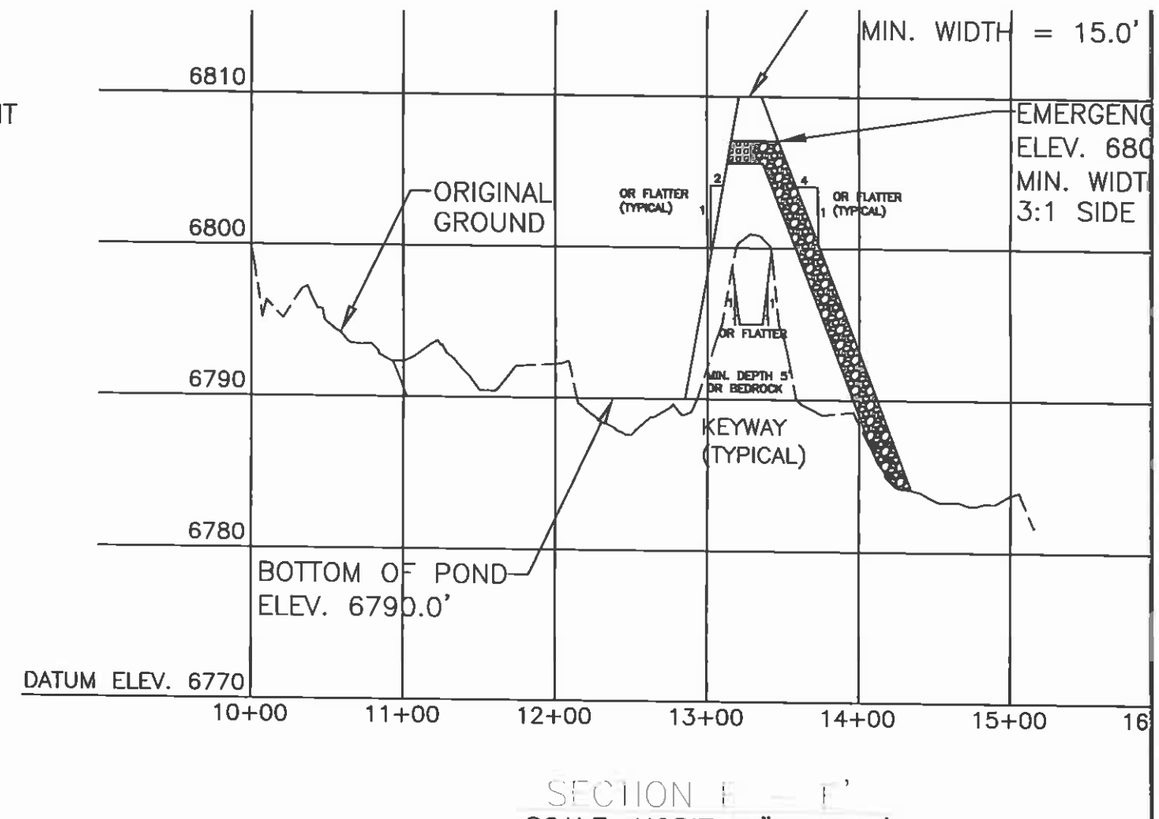
Y SPILLWAY

NOTES:
1) General location, see
2) See Chapter 6, Black
3) See Vol. 2, Chapter
Geotechnical Evaluat
4) Salvage topsoil in ac
5) Reclamation of the
accordance with the
6) Ponding area side sl
topography.

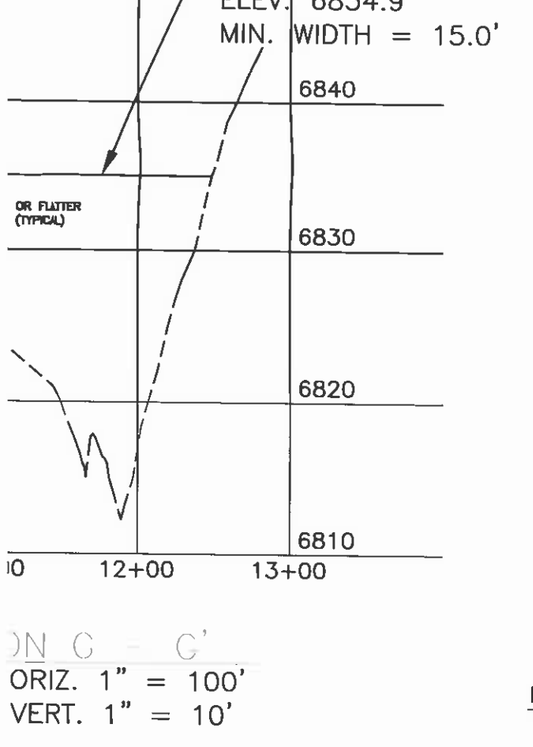
WOODSON
ENGINEERING AND SURVEYING, INC.
124 N. ELDEN ST.
FLAGSTAFF, AZ 86001
PHONE: (928) 774-4636 FAX: (928) 774-4646



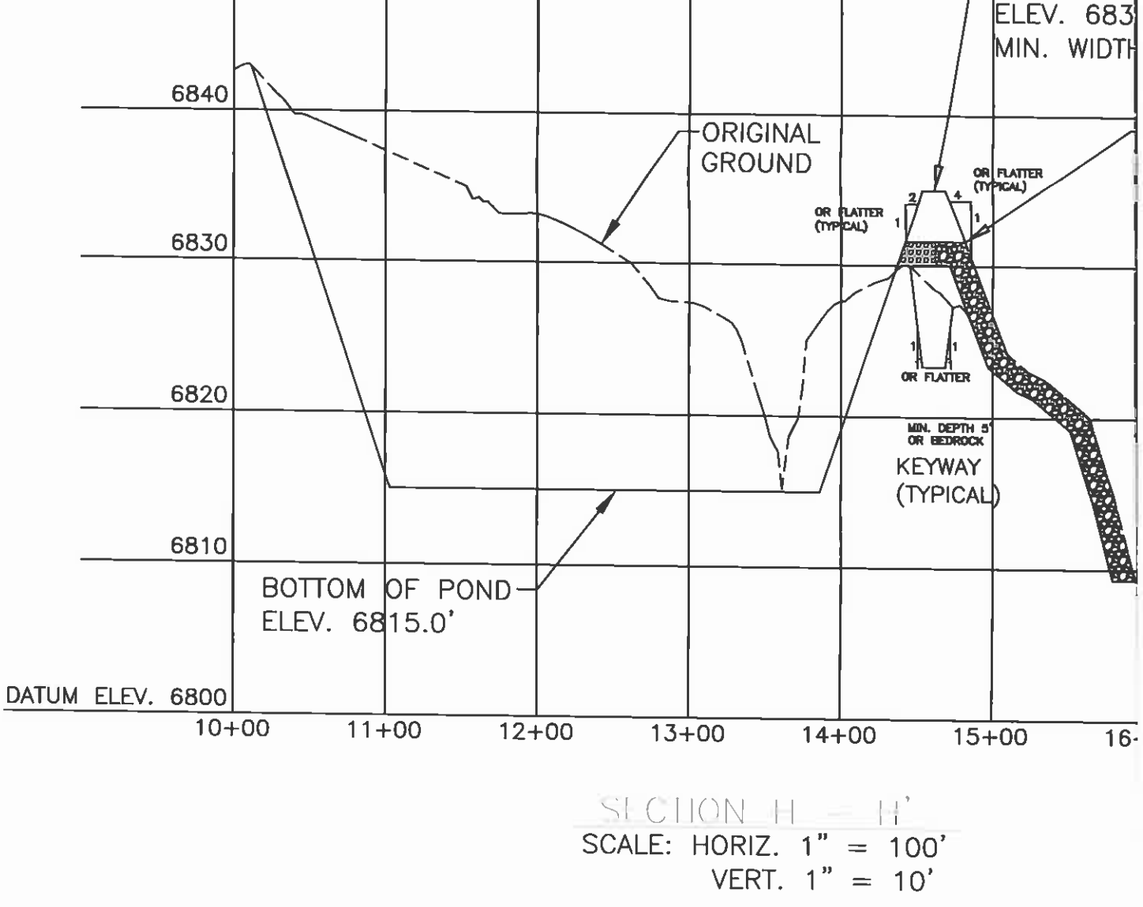
ON D – D'
ORIZ. 1" = 100'
VERT. 1" = 10'



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



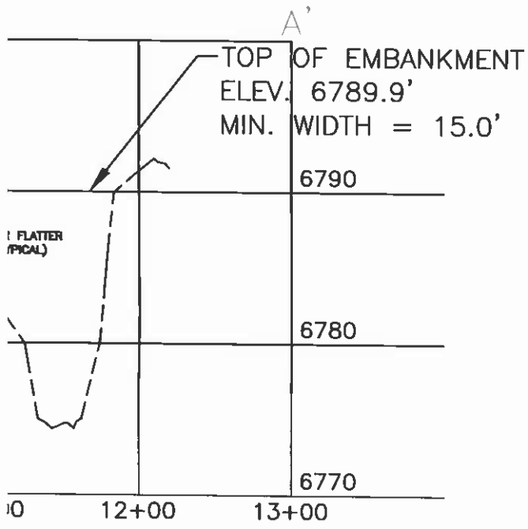
ON C – C'
ORIZ. 1" = 100'
VERT. 1" = 10'



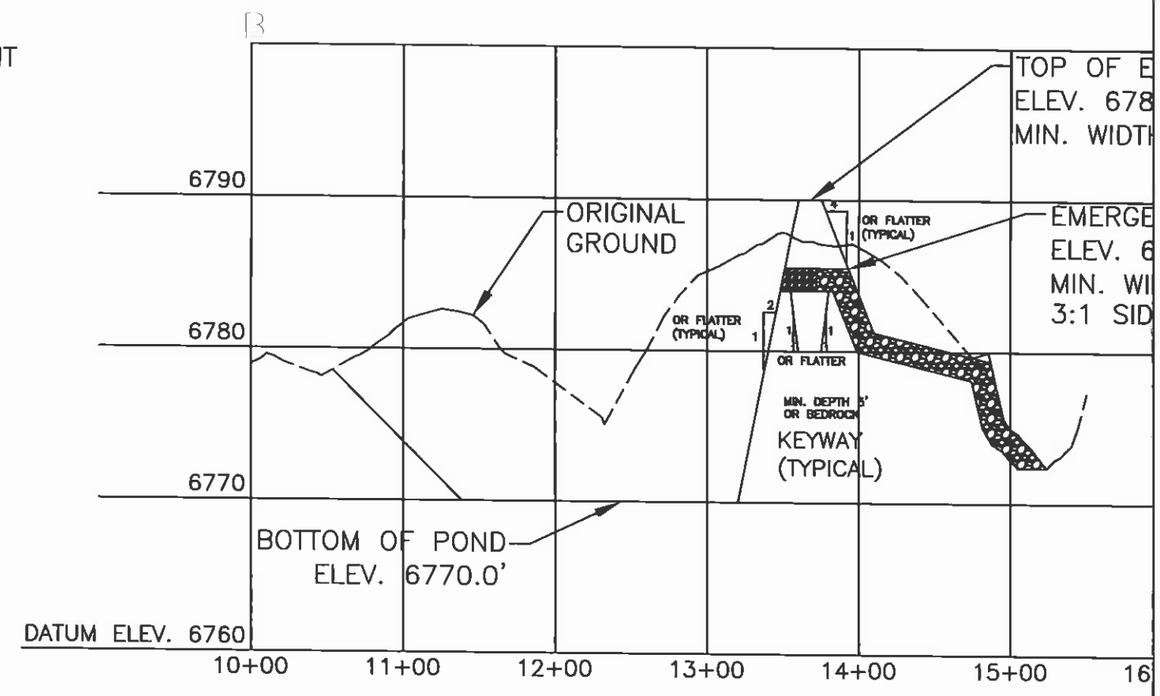
SECTION H – H'
SCALE: HORIZ. 1" = 100'
VERT. 1" = 10'

N9-J POND STAGE CAPACITY TABLE

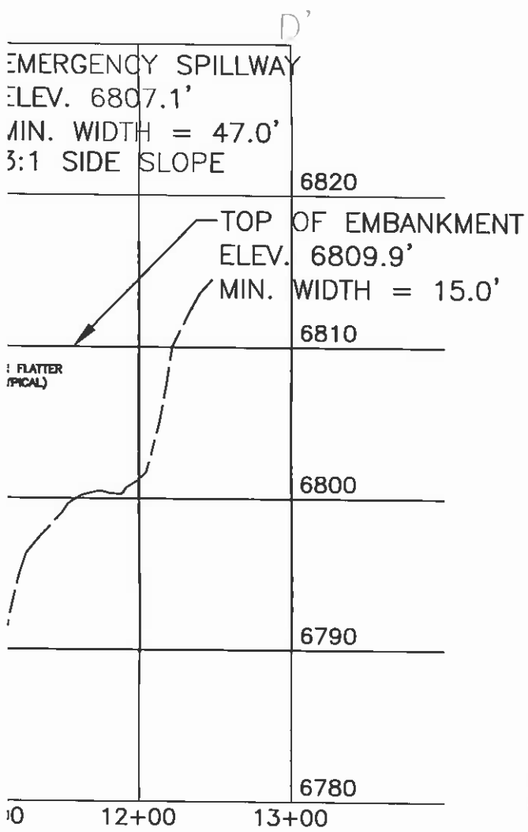
ELEVATION (ft-msl)	STAGE (ft)	AREA (acres)	TOTAL CAPACITY (ac-ft)	DESCRIPTION
6770.0	0.0	0.77	0.00	BOTTOM OF POND
6775.0	5.0	1.05	4.55	INCISED ELEV.
6780.0	10.0	1.40	10.67	
6785.0	15.0	1.82	18.73	
6785.5	15.5	1.87	19.66	EMERGENCY SPILLWAY



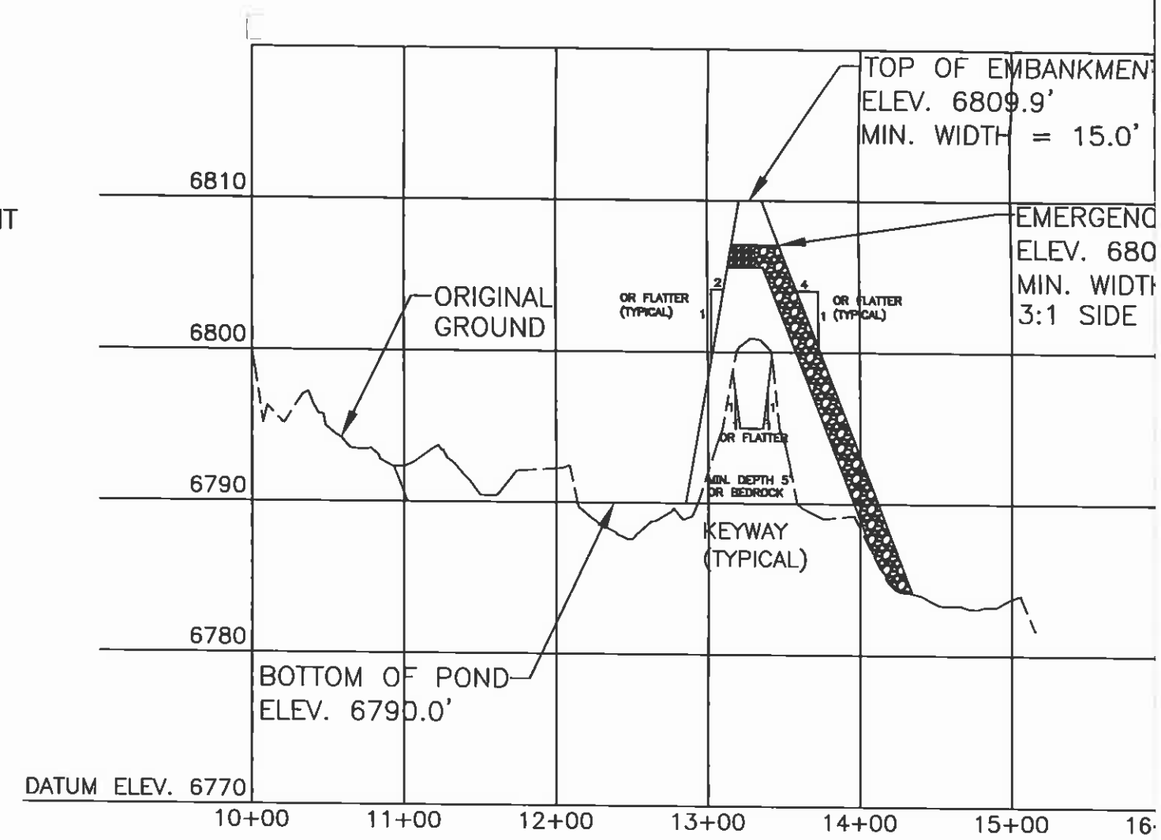
ON A – A'
ORIZ. 1" = 100'
VERT. 1" = 10'



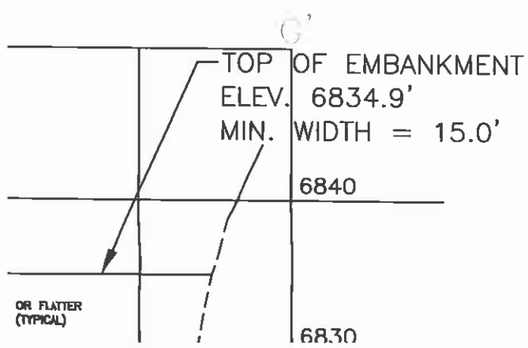
SECTION B – B'
SCALE: HORIZ. 1" = 100'
VERT. 1" = 10'

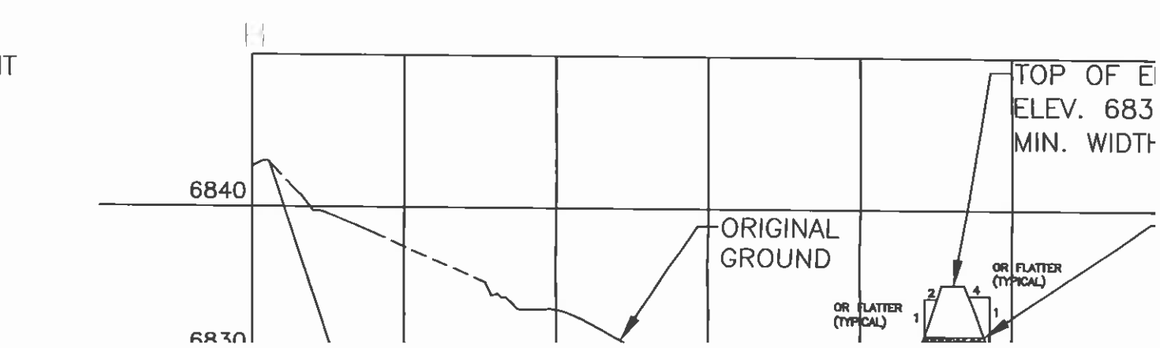


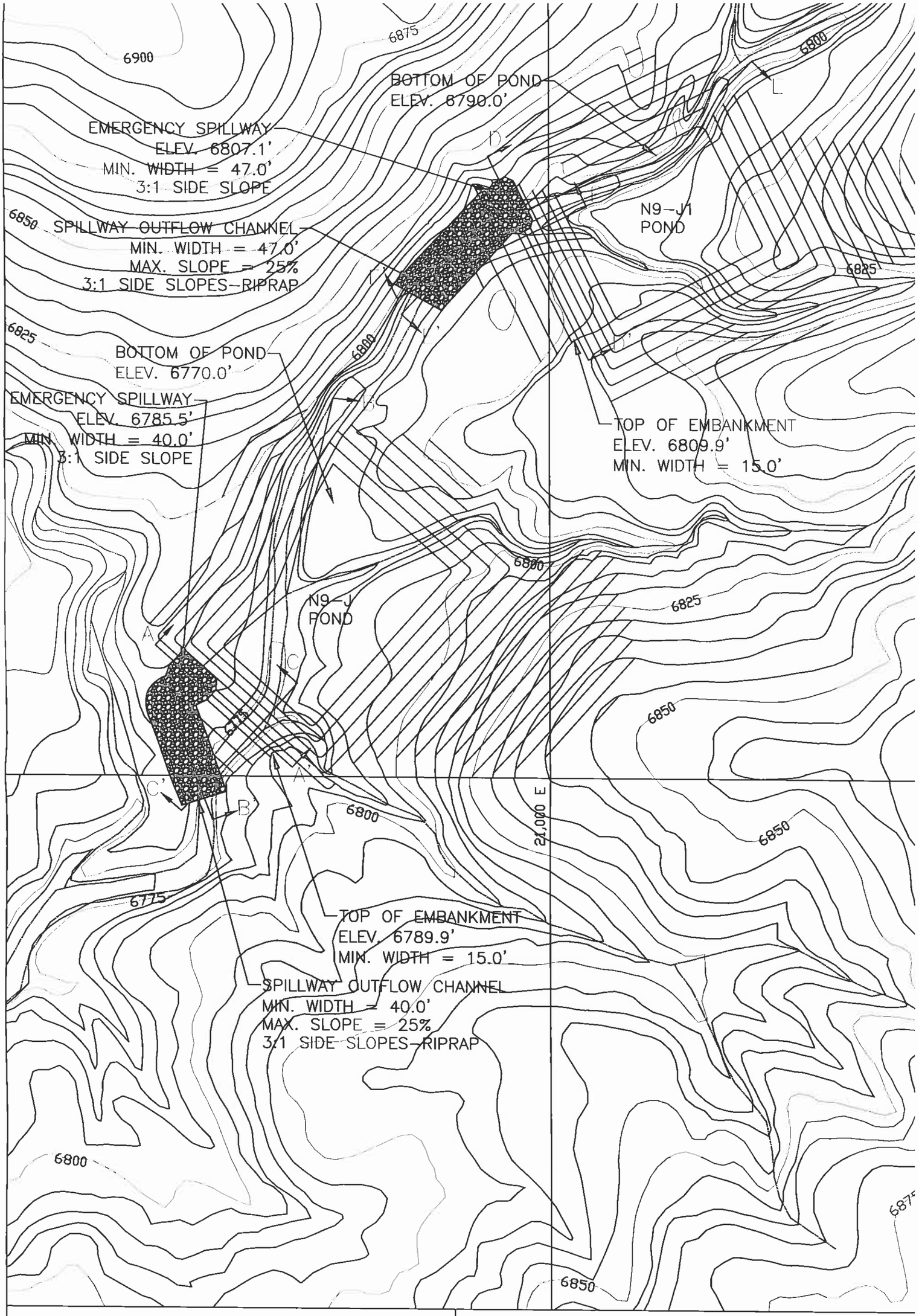
ON D – D'
ORIZ. 1" = 100'
VERT. 1" = 10'

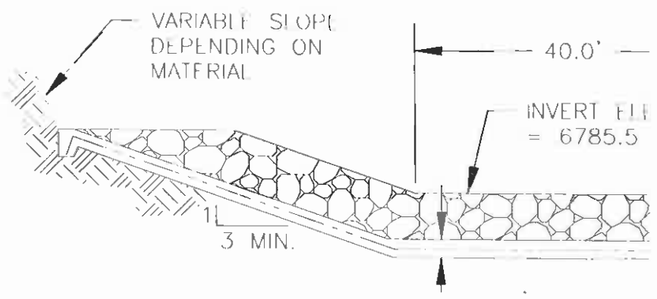


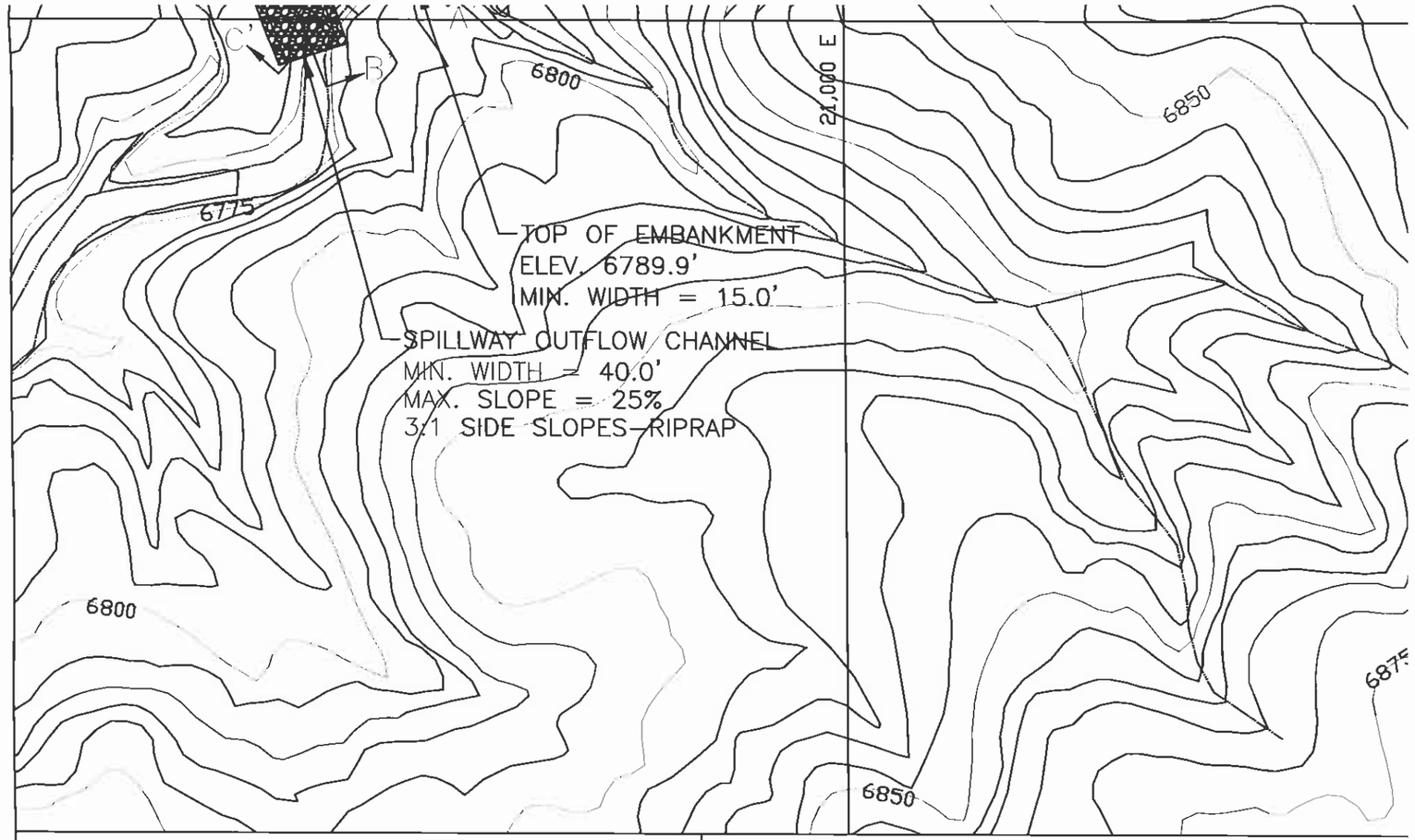
SECTION E – E'
SCALE: HORIZ. 1" = 100'
VERT. 1" = 10'

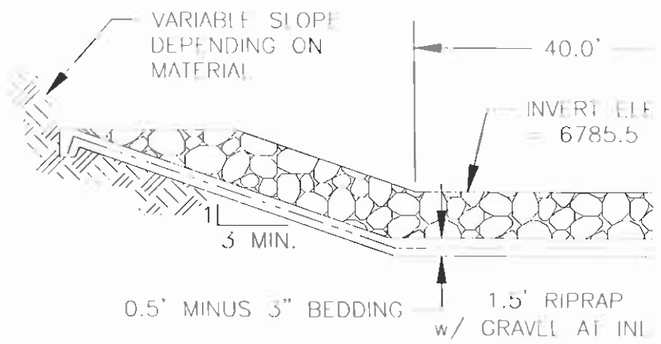





BOTTOM OF POND
ELEV. 6790.0'
EMERGENCY SPILLWAY
ELEV. 6807.1'
MIN. WIDTH = 47.0'
3:1 SIDE SLOPE
SPILLWAY OUTFLOW CHANNEL
MIN. WIDTH = 47.0'
MAX. SLOPE = 25%
3:1 SIDE SLOPES-RIPRAP
N9-J1
POND
BOTTOM OF POND
ELEV. 6770.0'
EMERGENCY SPILLWAY
ELEV. 6785.5'
MIN. WIDTH = 40.0'
3:1 SIDE SLOPE
TOP OF EMBANKMENT
ELEV. 6809.9'
MIN. WIDTH = 15.0'
N9-J
POND
TOP OF EMBANKMENT
ELEV. 6789.9'
MIN. WIDTH = 15.0'
SPILLWAY OUTFLOW CHANNEL
MIN. WIDTH = 40.0'
MAX. SLOPE = 25%
3:1 SIDE SLOPES-RIPRAP
21,000 E
6900
6875
6800
6825
6850
6775
A
A'
B
B'
C
C'
D
D'
E
E'
L
L'


VARIABLE SLOPE
DEPENDING ON
MATERIAL
40.0'
INVERT ELE
= 6785.5
1
3 MIN.



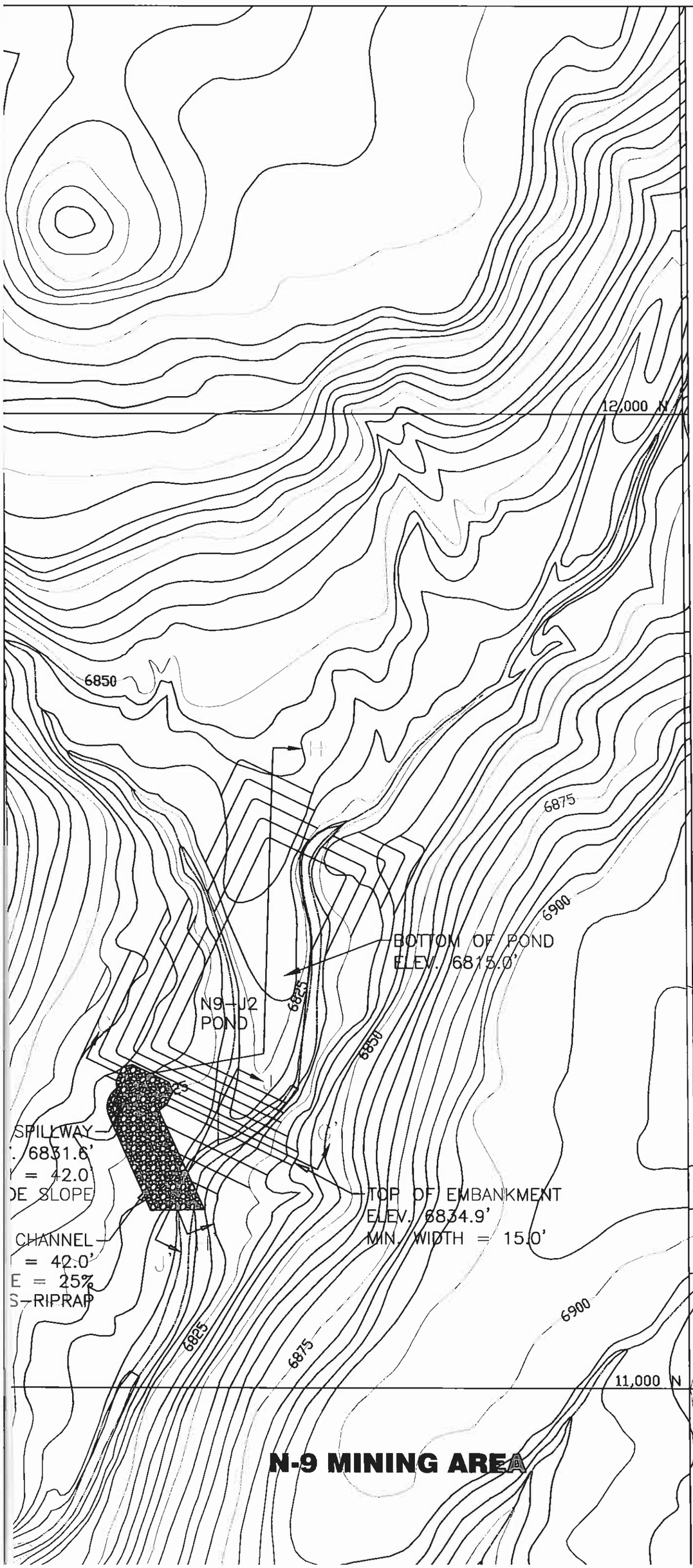


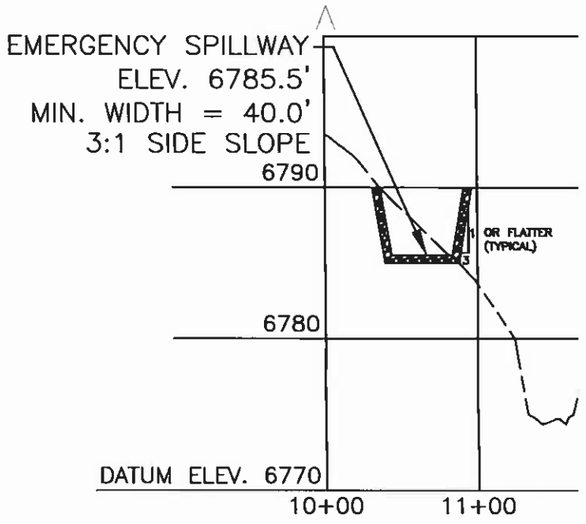
SPILLWAY MIN.
OUTFLOW CHANNEL

SECTION OF EMERGE

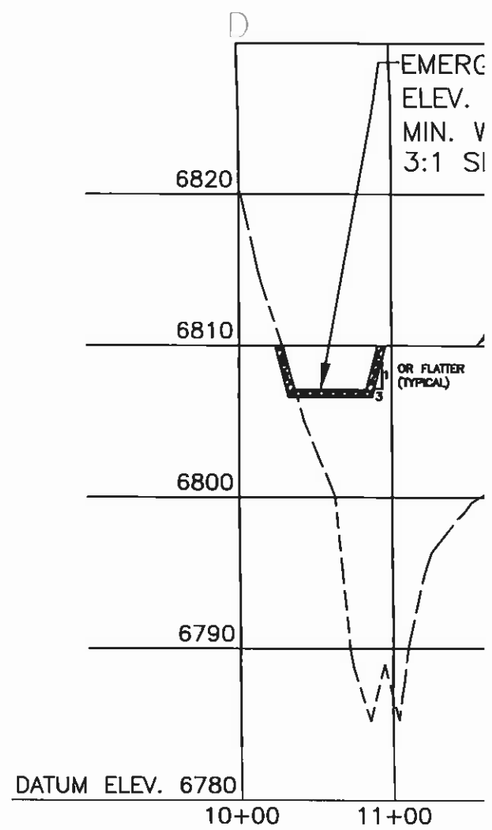
NOT TO SCA

N9 J PON

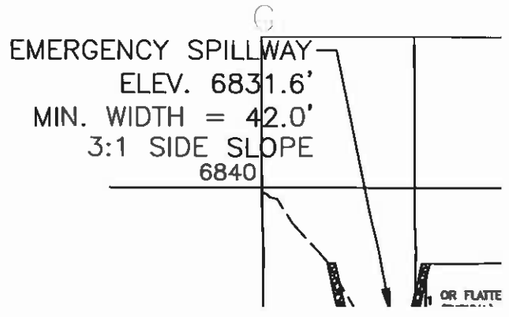


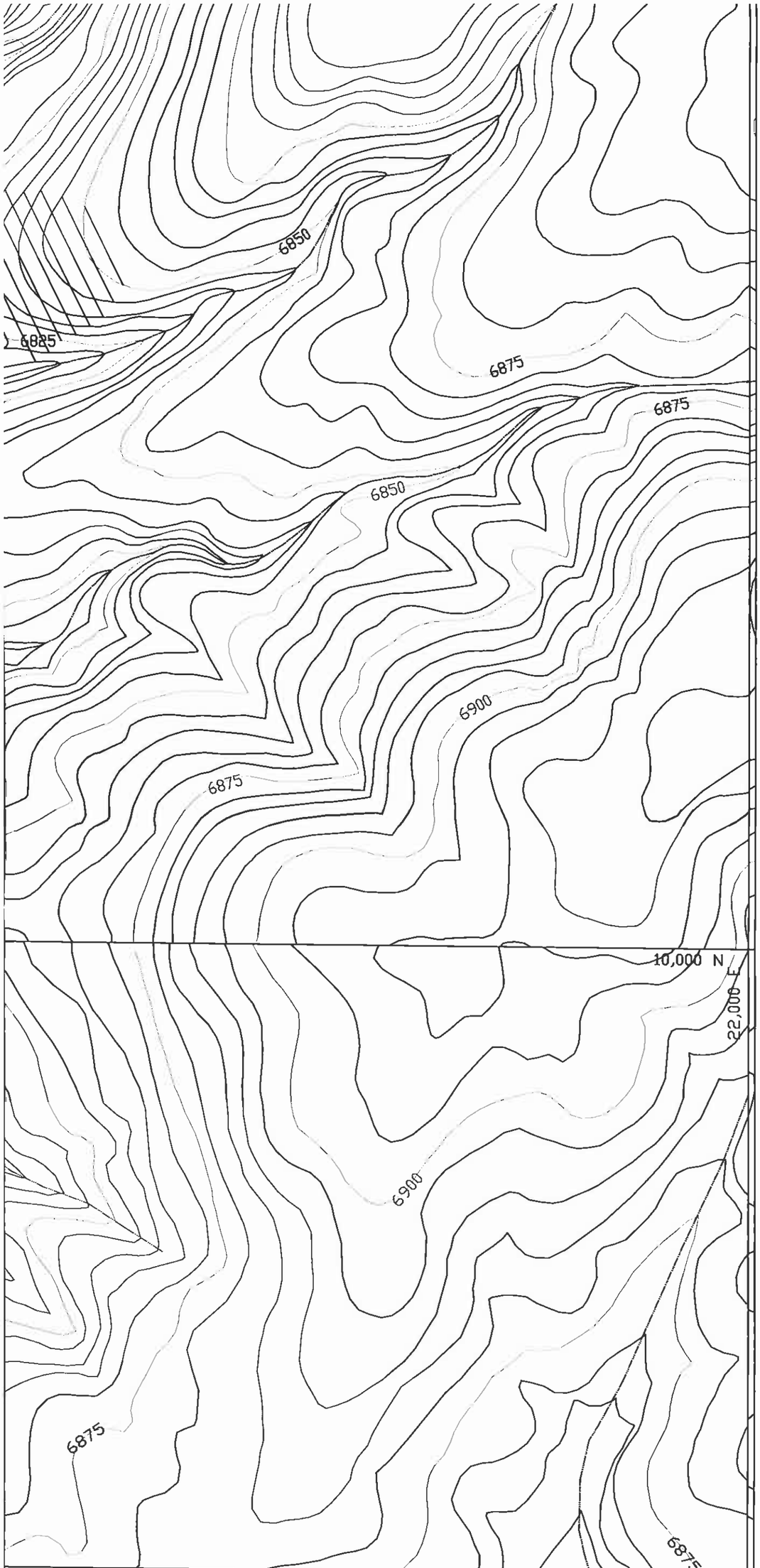


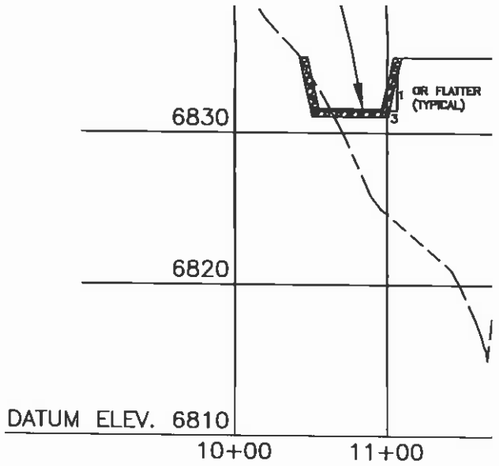
SECTION A
SCALE: HORIZ.
VERT.



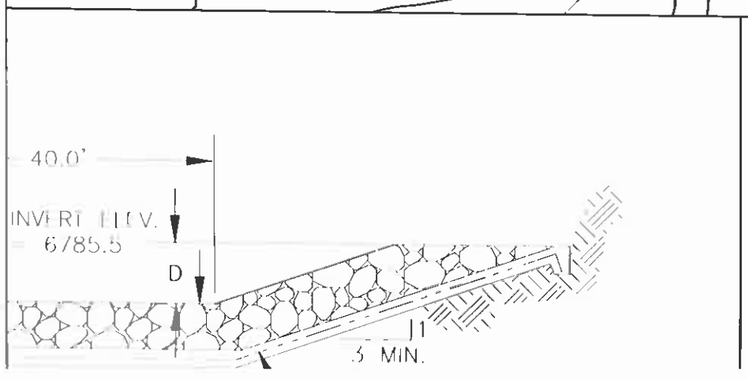
SECTION D
SCALE: HORIZ.
VERT

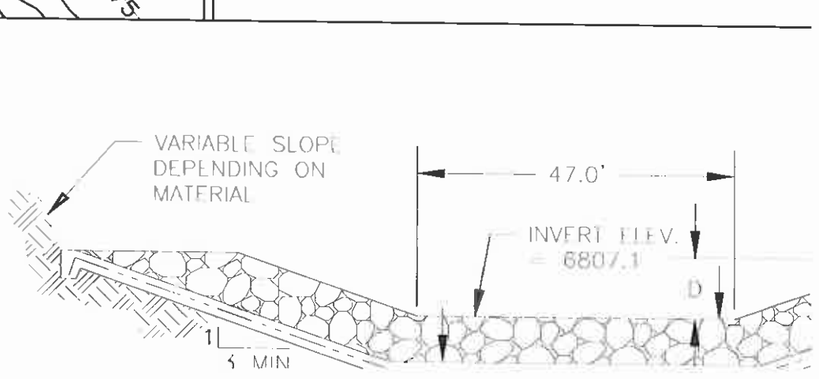


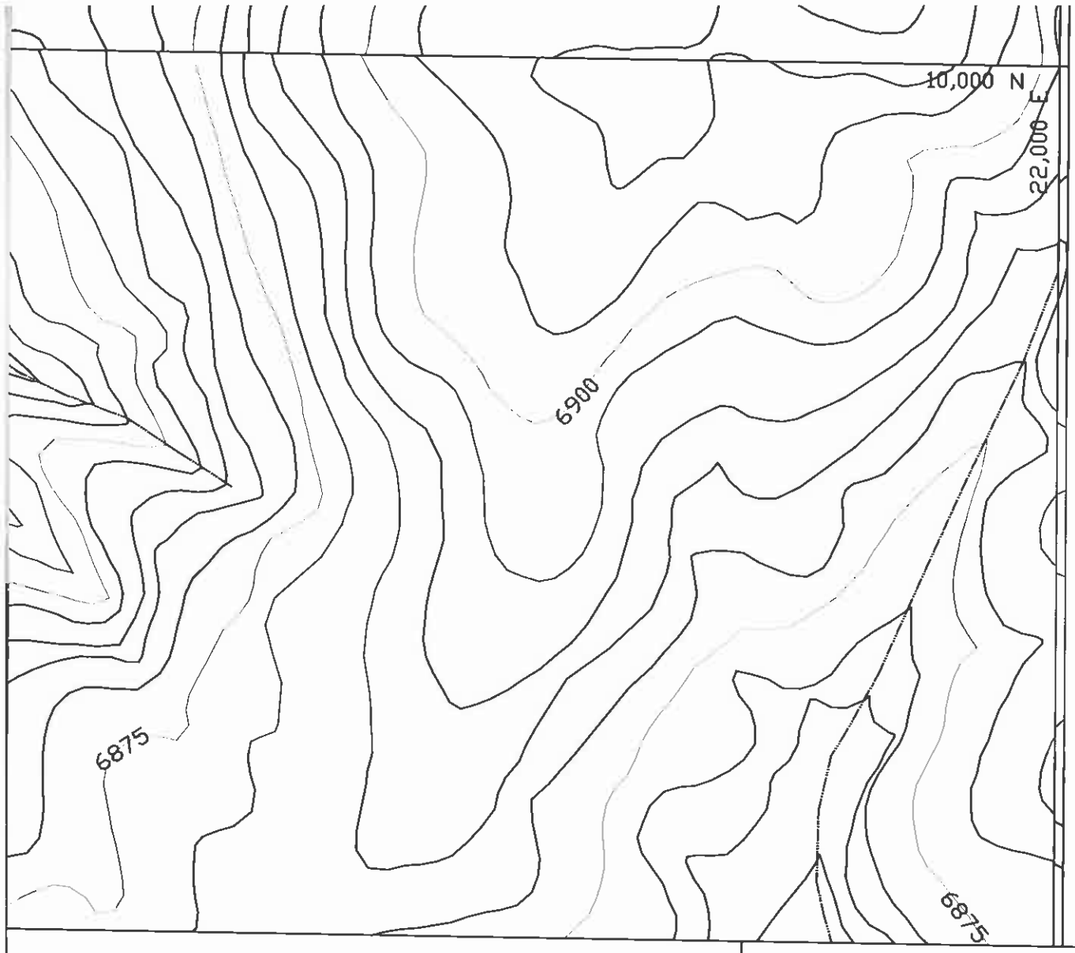


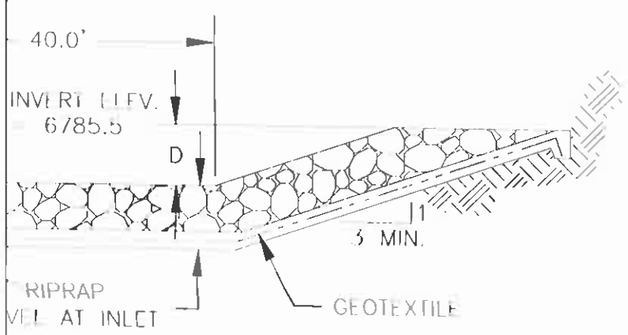


SECTION C
SCALE: HORIZ.
VERT.







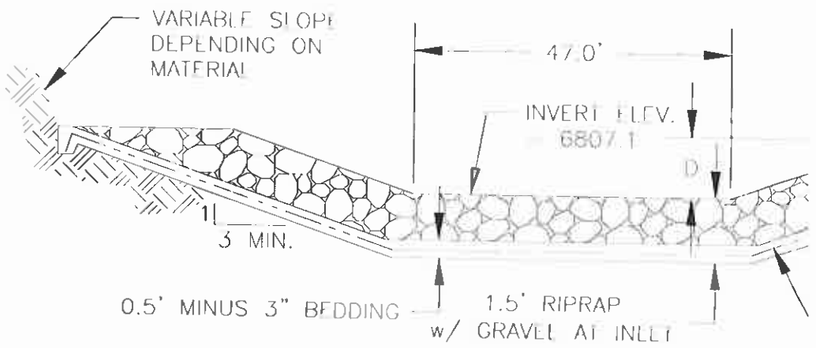


WAY MIN. D=2.5'
CHANNEL MIN. D=2.0'

EMERGENCY SPILLWAY

OT TO SCALE

N9 J POND

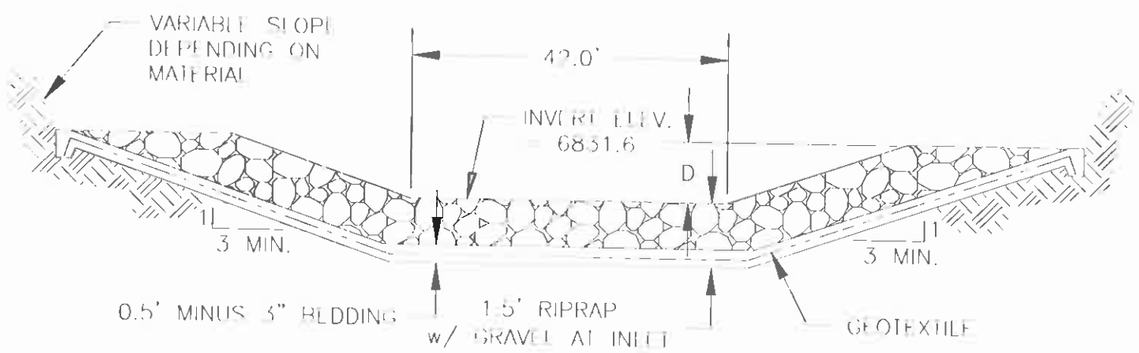


SPILLWAY MIN. D=2.5'
OUTFLOW CHANNEL MIN. D=2.0'

SECTION OF EMERGENCY SPILL

NOT TO SCALE

N9-J1 POND



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

SECTION OF EMERGENCY SPILLWAY

NOT TO SCALE

N9 J2 POND

6807.1	17.1	1.86	19.39	EMERGENCY SPILLWAY
6809.9	19.9	2.15	25.20	TOP OF EMBANKMENT

PTION
F POND
ELEV.
SPILLWAY
BANKMENT

ENGINEER'S CERTIFICATION

JAMES G. SCHLENVOGT
Engineering Supervisor
Peabody Western Coal Company

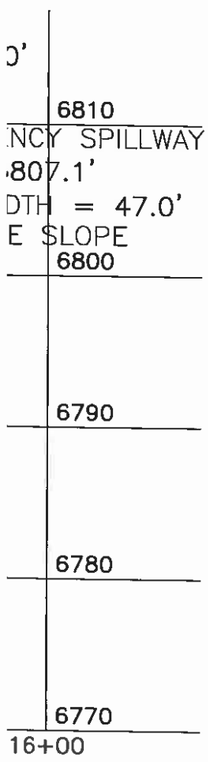
ARIZONA P.E. 18782
Date: DEC 23 2004

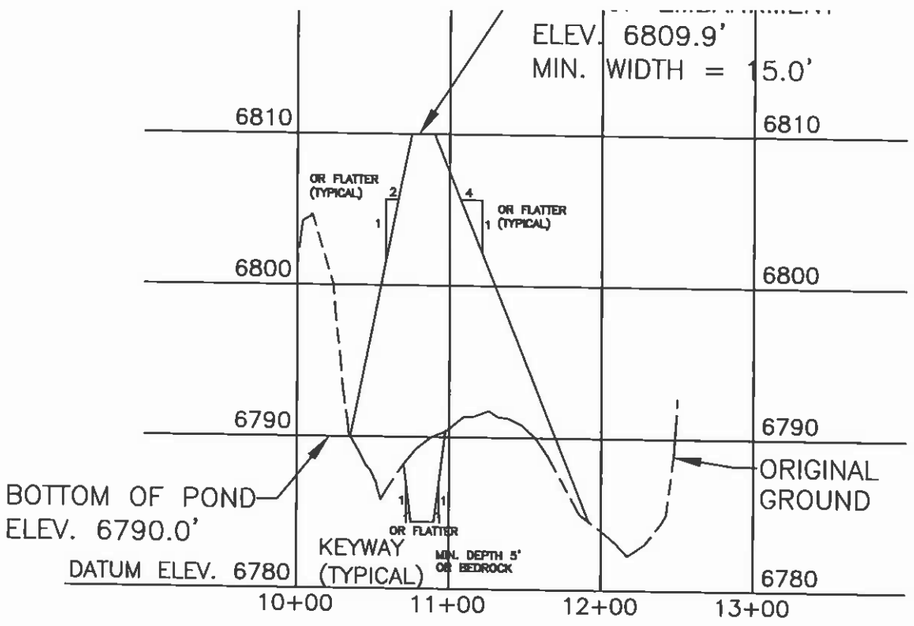
: Drawing No. 85400, Sheet K-6 and Drawing No. 85405.
< Mesa PAP for Construction Specifications.
6, Attachment D, Sections 1-3 for description of
ion.
:cordance with approved topsoil salvage plan.
listrubed area above the high waterline shall be in
approved reclamation plan.
opes, typical 3:1 slope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

EXHIBIT # 1
PROPOSED N9-J, J1 & J2
SEDIMENTATION POND DESIGN

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

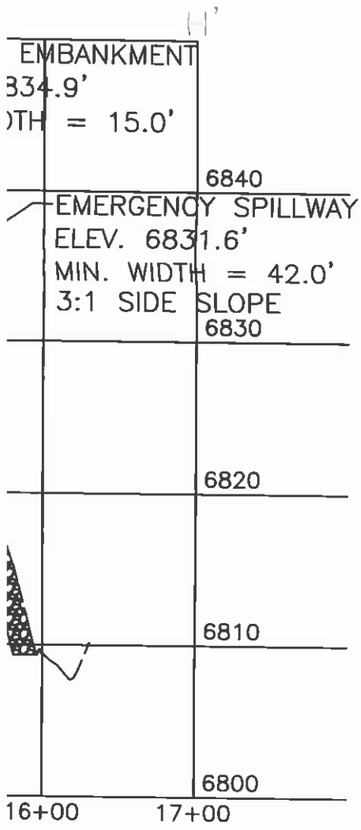
DESIGNED BY: GA	SCALE: AS NOTED
DRAWN BY: PEK	DRAWING DATE: 11-22-04
CHECKED BY: JGS	PHOTO DATE: 06-67 & 05-83
CONTOUR INTERVAL: 5 FT.	DWG FILE: POND N9-J,J1,J2.DWG

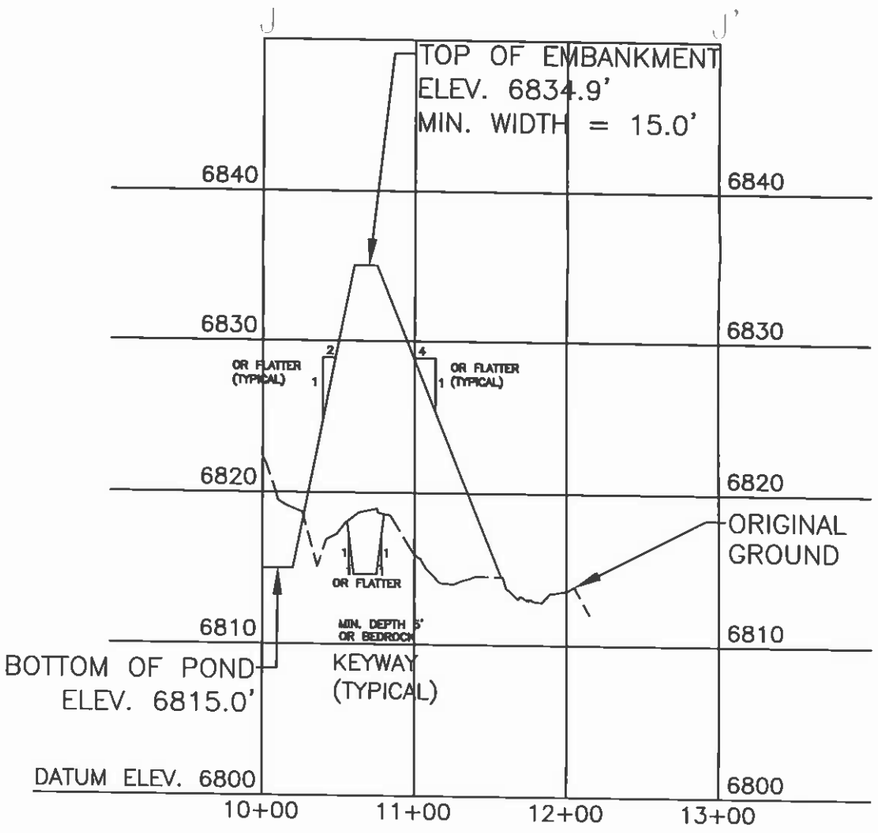




SECTION F - F'

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





SECTION J - J'

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

N9-J1 POND STAGE CAPACITY TABLE

ELEVATION (ft-msl)	STAGE (ft)	AREA (acres)	TOTAL CAPACITY (ac-ft)	DESCRIPTION
6790.0	0.0	0.62	0.00	BOTTOM OF POND
6795.0	5.0	0.86	3.70	INCISED ELEV.
6800.0	10.0	1.18	8.80	
6805.0	15.0	1.60	15.75	
6807.1	17.1	1.86	19.39	EMERGENCY SPILLWAY

B'

EMBANKMENT
789.9'
DTH = 15.0'

6790

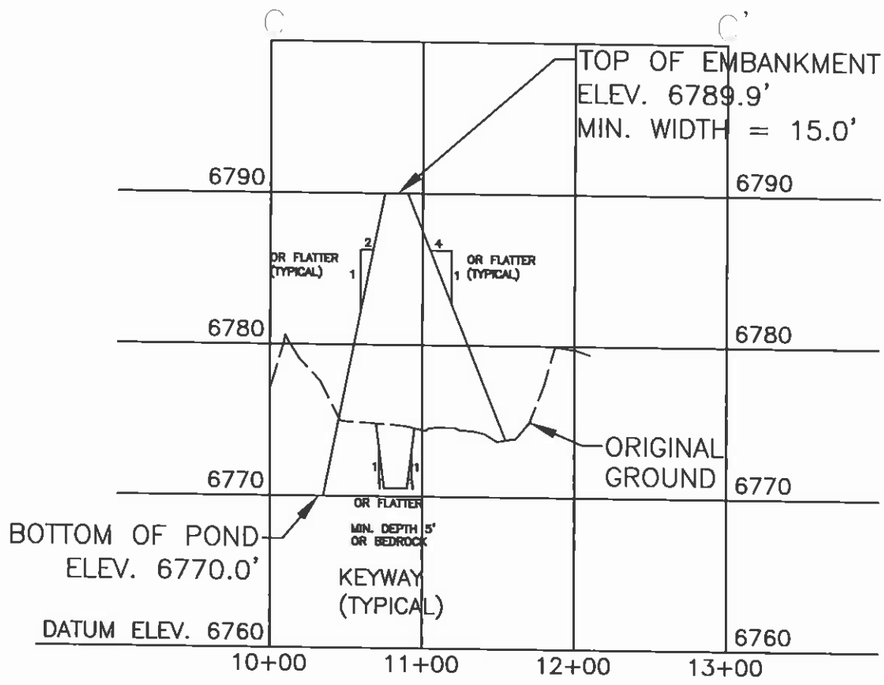
GENCY SPILLWAY
6785.5'
WIDTH = 40.0'
SIDE SLOPE

6780

6770

6760

16+00



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

E'

ENT
0'

6810

NCY SPILLWAY
807.1'
DTH = 47.0'
E SLOPE

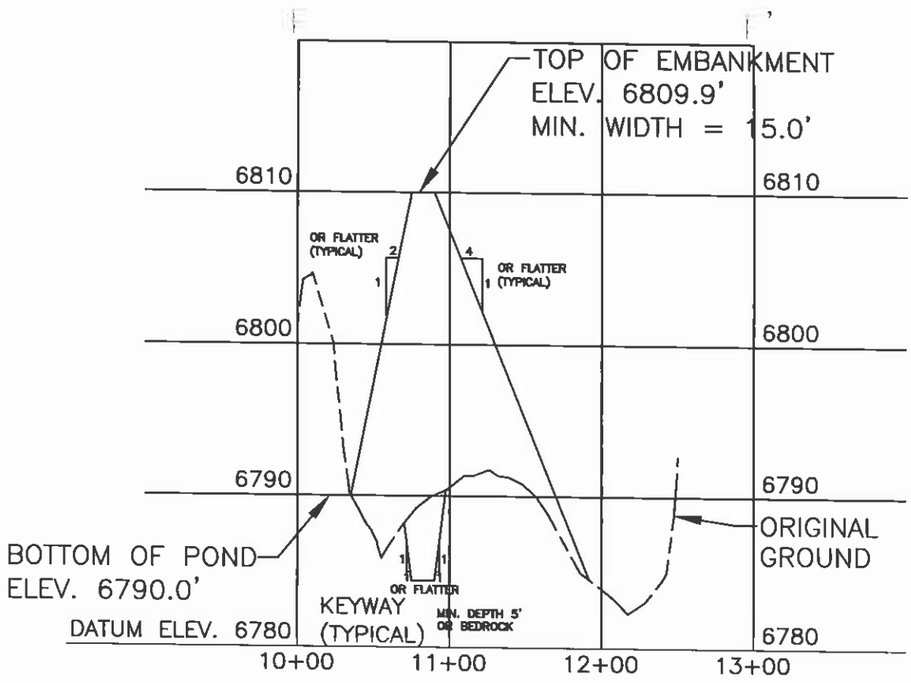
6800

6790

6780

6770

16+00



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

H'

EMBANKMENT
834.9'
DTH = 15.0'

6840

EMERGENCY SPILLWAY
ELEV. 6831.6'
MIN. WIDTH = 42.0'
3:1 SIDE SLOPE

6830

J

J'