TABLE 1 (Revised 03-06-01)
BLUE VALLEY RANCH
BLUE RIVER ENHANCEMENT PROJECT - Phase IV
IMPACTS TO WATERS OF THE U. S. INCLUDING WETLANDS

	IMPACTS (Cu. Yd.)					WETLAND IMPACTS (Sq. Ft.)				
	Wetlands		Waters of the U.S.							
WORK AREA / TASK	Excavation	Fill	Excavation	Fill		Excavation	Fill	Totals		
	(cu yd)	(cu yd)	(cu yd)	(cu yd)		(sq ft)	(sq ft)	(sq ft)	(acres)	
Blue River Restoration										
Re-shape Blue River Channel	-	-	14,000	6,600	(a)	-	-	-	-	
Construct Two Bankfull Benches	-	-	-	7,400	(a)	-	-	-	-	
Install Rock Structure (Vanes, Habitat)	-	-	-	3,200		-	-	-	-	
Install Rock Vane for Kayak Access	-	-	-	100		-	-	-	-	
Subtotals	-	-	14,000	17,300				-	-	
Oxbow Stream Channels										
Excavation to Deepen Oxbow Channels	14,900	-	-	-		81,000	-	81,000	1.86	(b)
Install Rock/Sod Step Pool Plugs	-	900	-	-		-	5,400	5,400	0.12	
Subtotals	14,900	900	-	-		81,000	5,400	86,400	1.98	
Lower Reach of Beaver Creek										
Excavation to Create Spring-Fed "Beaver Pond Channel	1,600	-	-	-		22,450	-	22,450	0.52	
"Beaver Dam" Step Pool Dams, Sod Mats and Step-Pool Drop at Pond 1	-	700	-	-		10,800	-	10,800	0.25	
Subtotals	1,600	700	-	-		33,250	-	33,250	0.76	
Improvements to Existing Ponds 1 and 2 (Ponds H and I)										
Excavation to Deepen and Reshape Ponds	-	-	23,000	-	(a)	-	-	-	-	
Fill to Re-shape Pond Shorelines	-	-	-	9,880	(a)	-	-	-	-	
Step Pool Drop from Pond 2	-	-	-	-		-	-	-	-	
Subtotals	-	-	23,000	9,880		-	-	-	-	
Improvements to Existing Ponds 3 Through 6 (Ponds A through G)										
Pond 3	-	-	2,610	1,220	(a)	-	-	-	-	
Pond 4	-	-	6,210	740	(a)	-	-	-	-	
Pond 5			2,720	40	(a)					
Pond 6			2,890	3,490	(a)					
Subtotals	-	-	14,430	5,490		-	-	-	-	
Upper & Lower Brook Trout Spawning Channels										
Excavation to Deepen and Create Step-Pool Channels	1,750		-	-		21,000		21,000	0.48	
"Beaver Dam" Step-Pool Dams and Sod Mats		525	-	-			6,300	6,300	0.14	
Subtotal	1,750	525				21,000	6,300	27,300	0.63	
GRAND TOTALS	18,250	2,125	51,430	32,670		135,250	11,700	146,950	3.37	

NOTES:

a. Excavated Materials Re-distributed as Fill for Points of Fishing Access

B. Includes all Wetlands Impacted by Excavation, Fill and Inundation

March 6, 2001

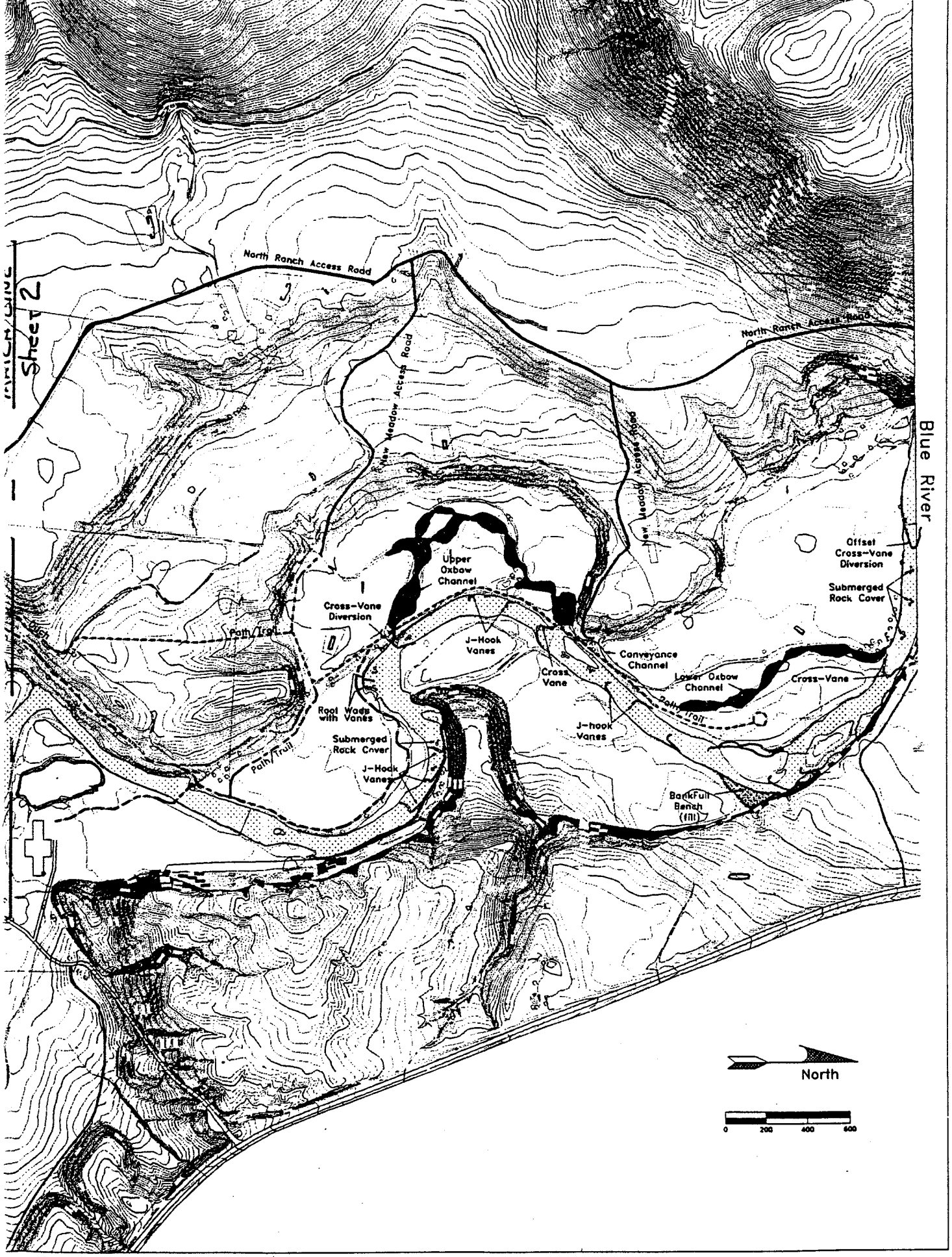


FIGURE 2
(Sheet 1)

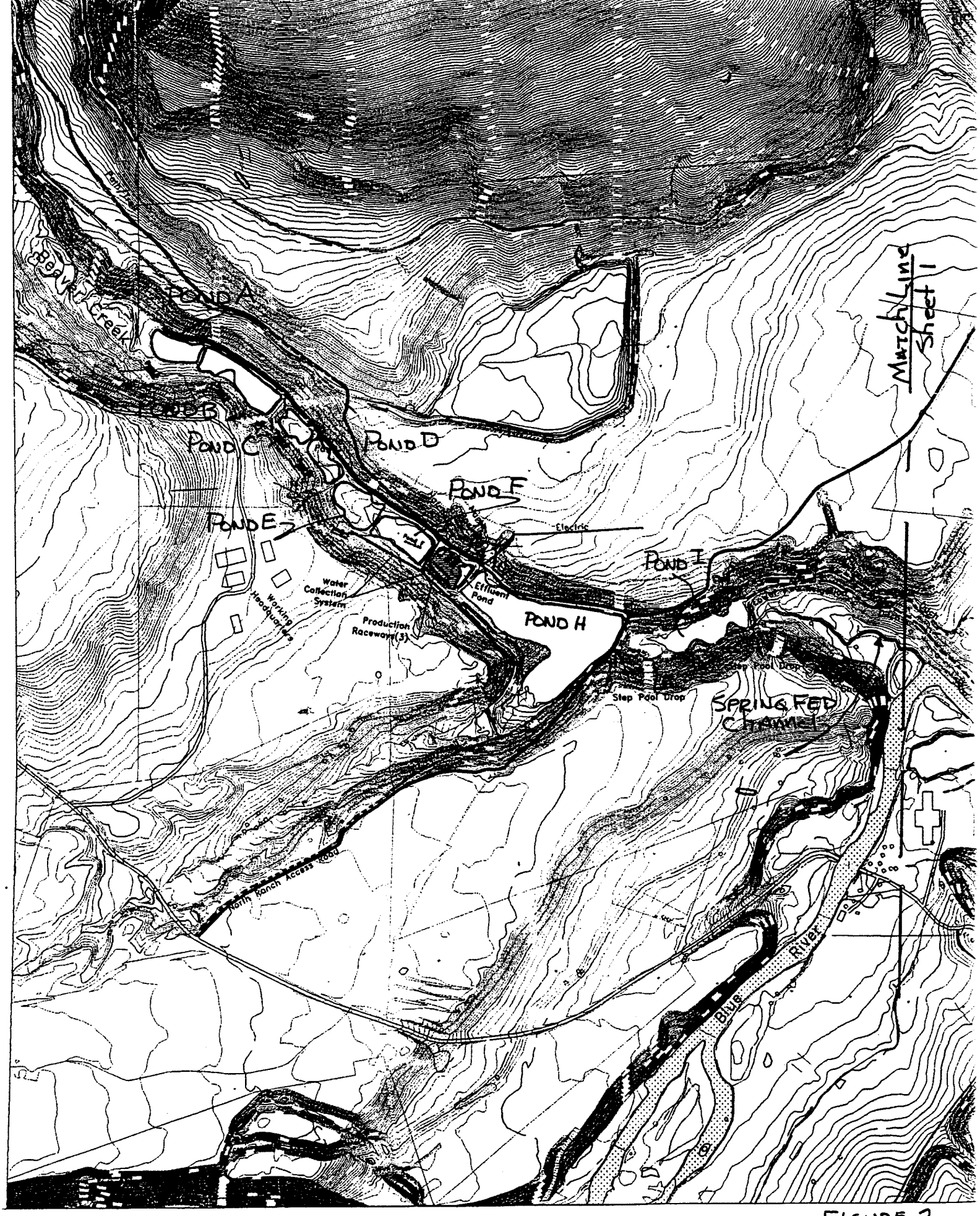


FIGURE 2
(Sheet 2)

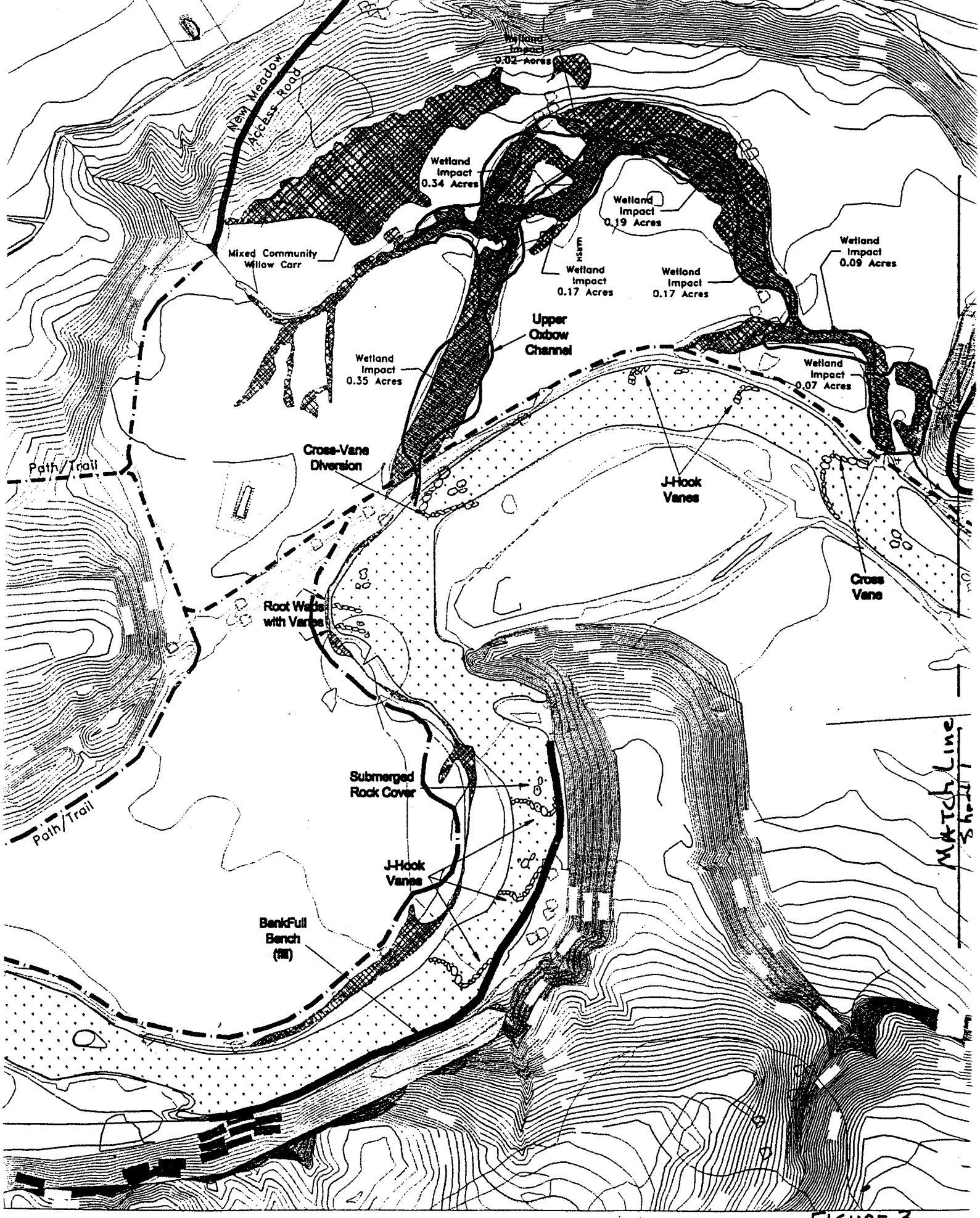
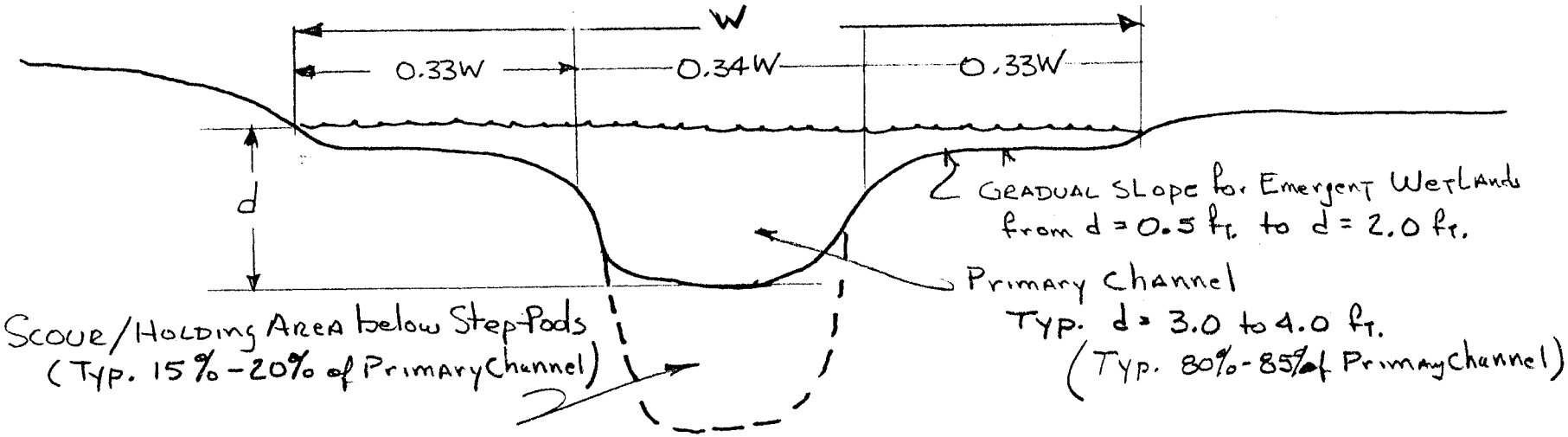
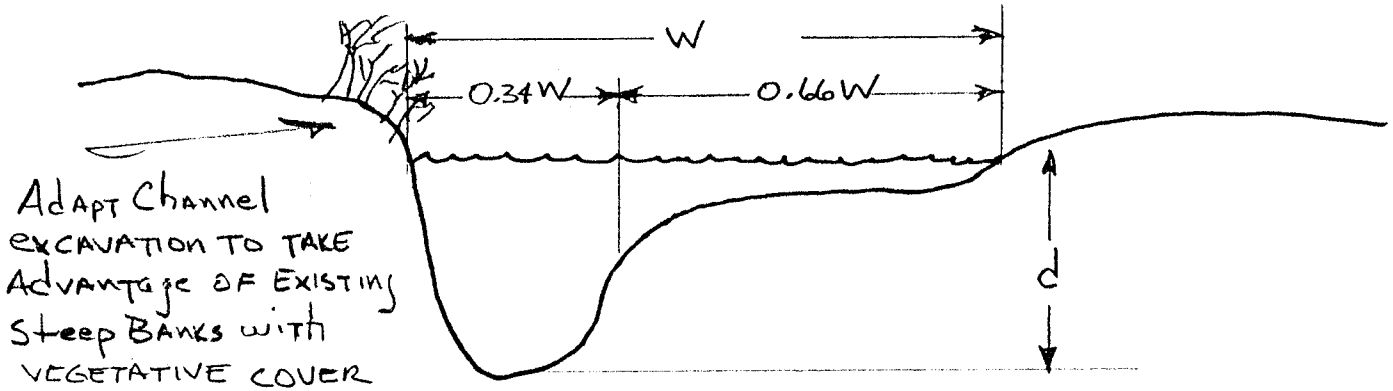


FIGURE 3
(Sheet 2)

FIGURE 3
(Sheet 1)

Symmetrical Section

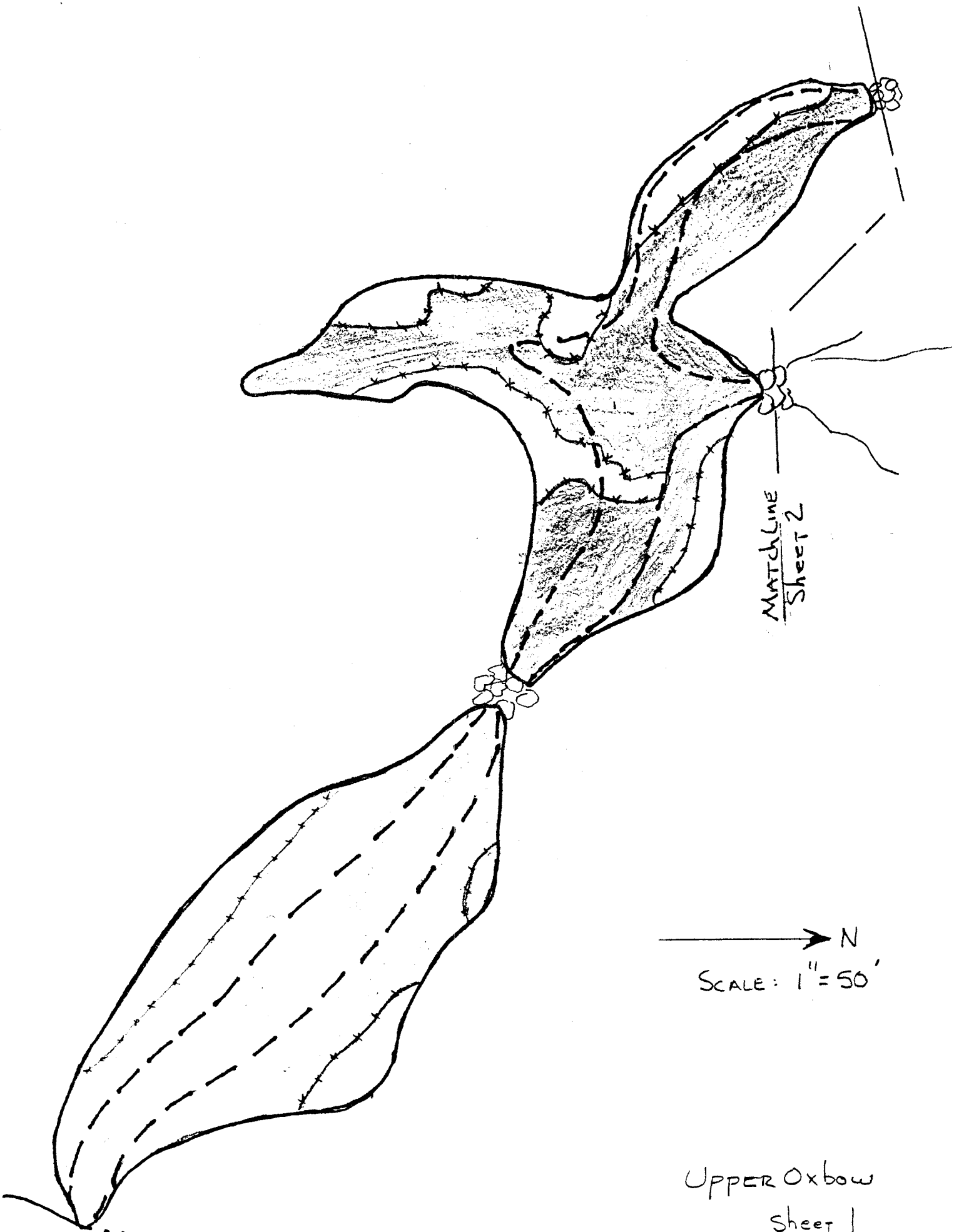




Asymmetrical Section

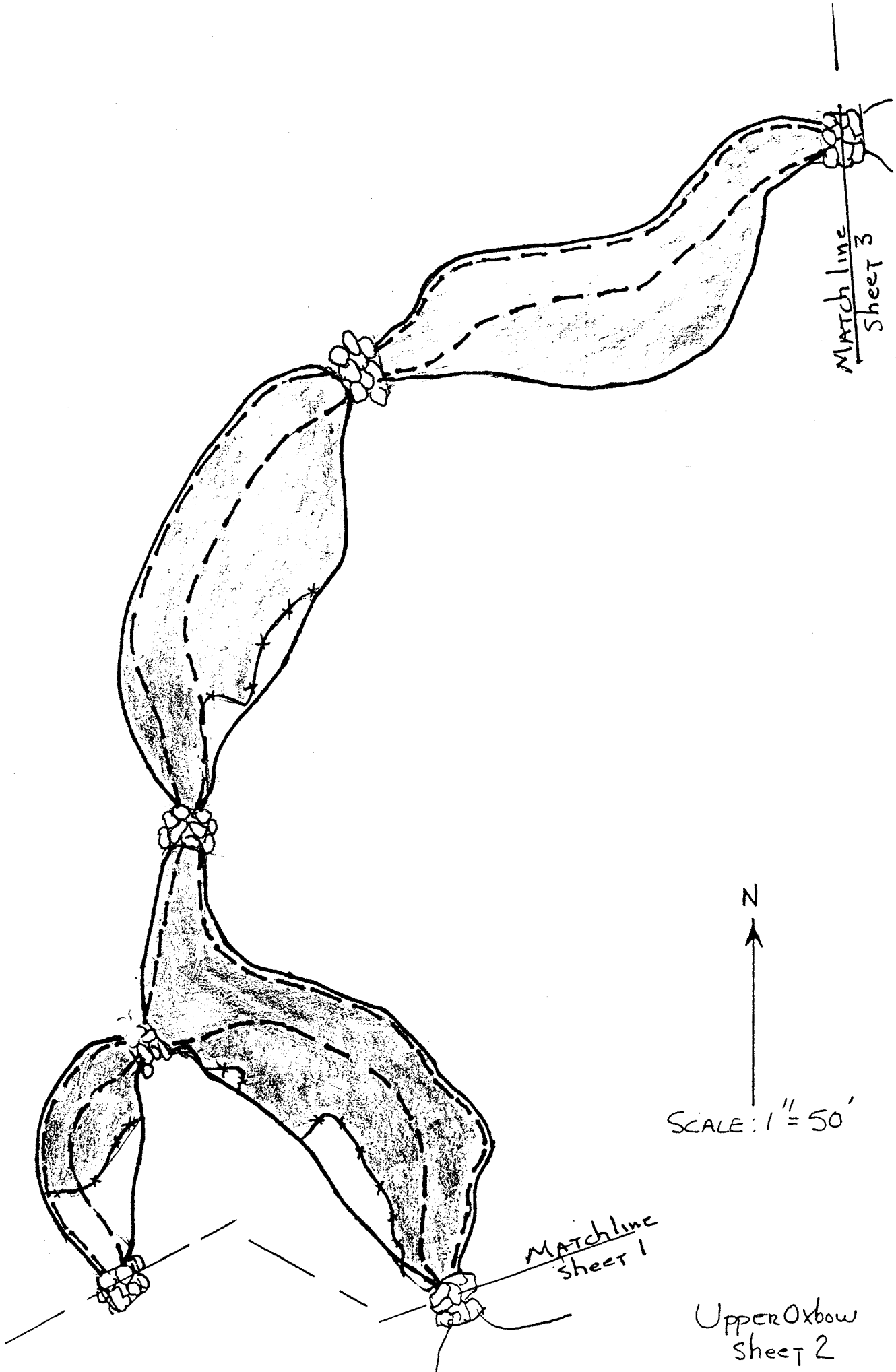
OXBOW CHANNELS

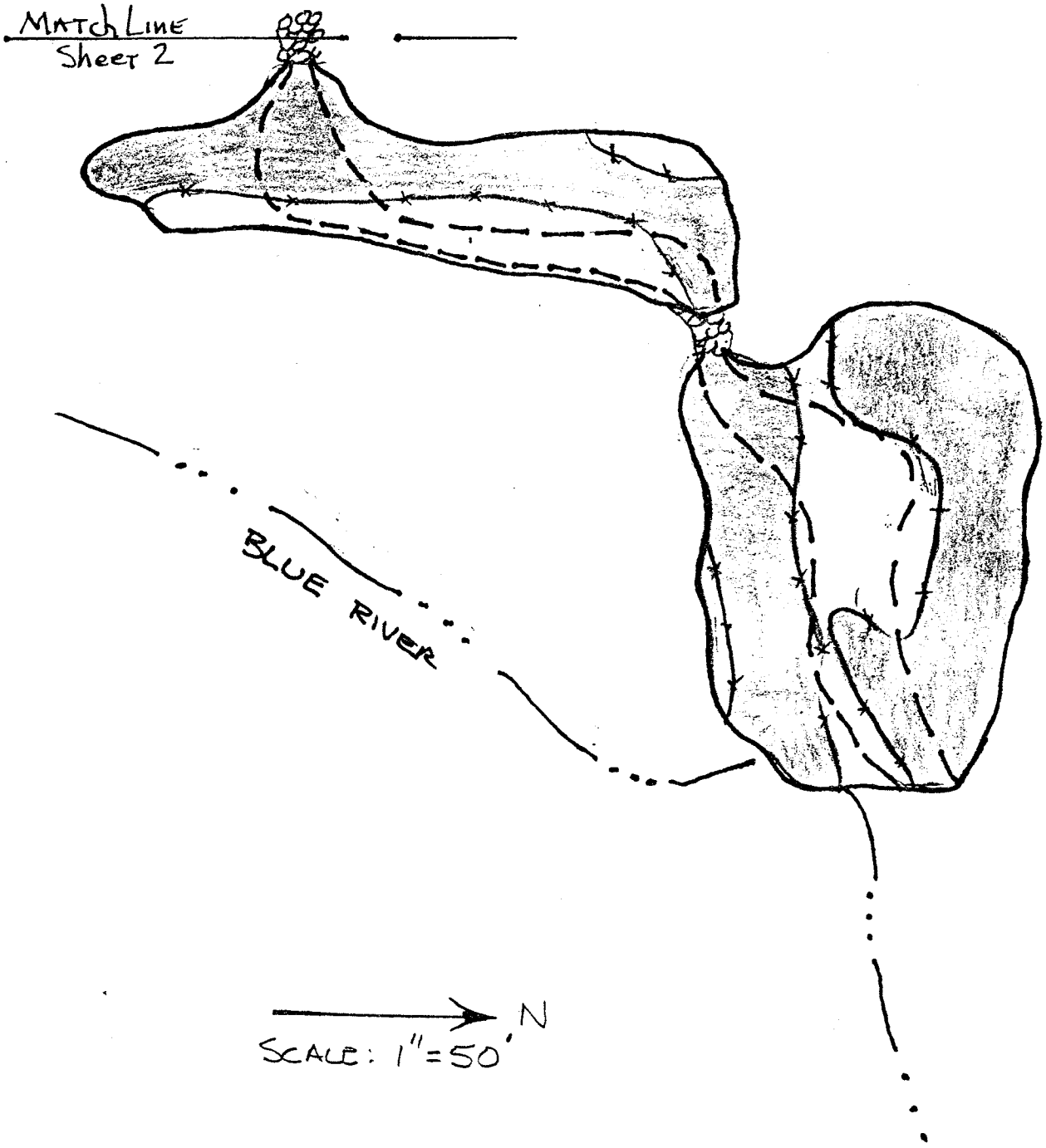
FIGURE A-7
(Revised)



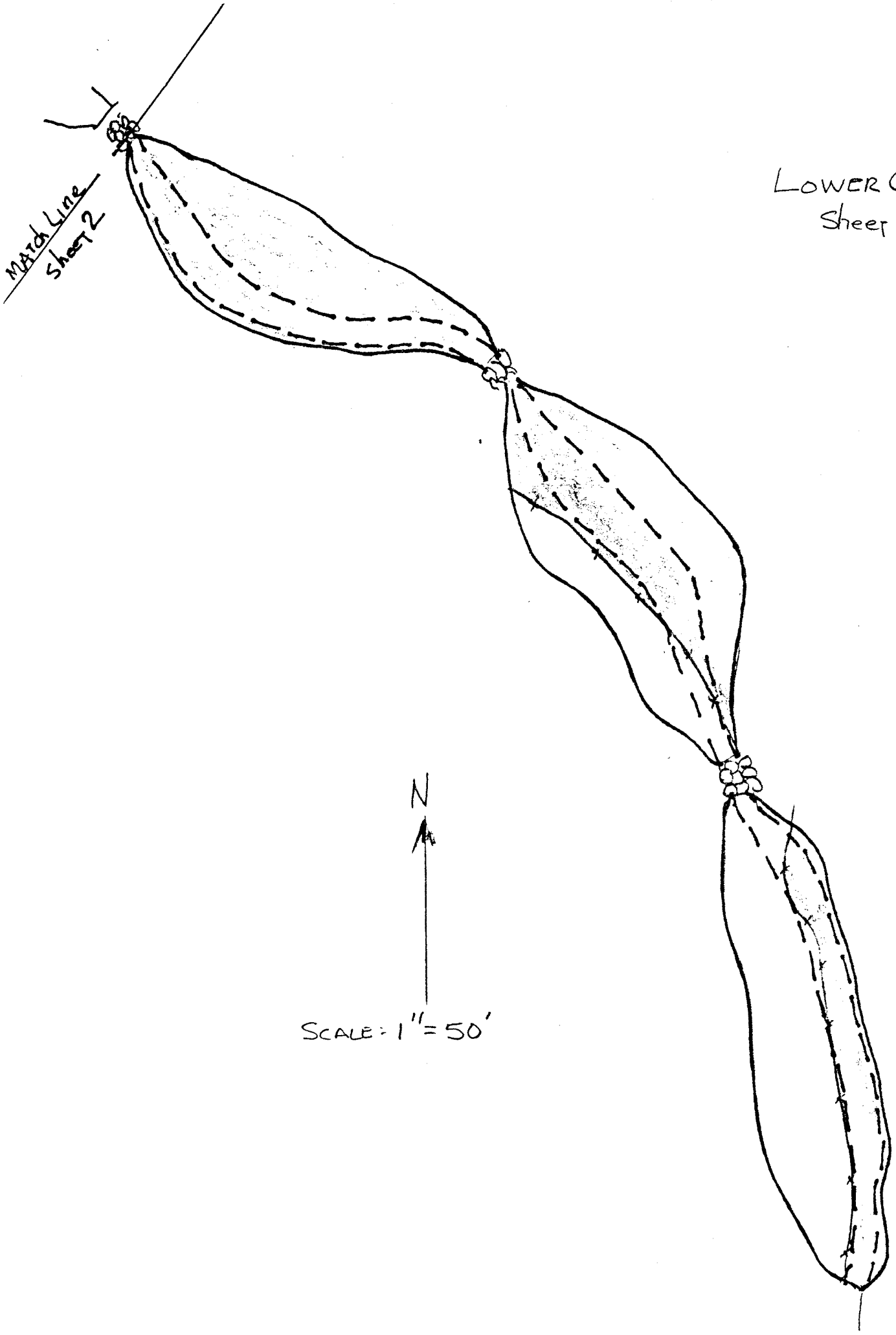
Upper Oxbow

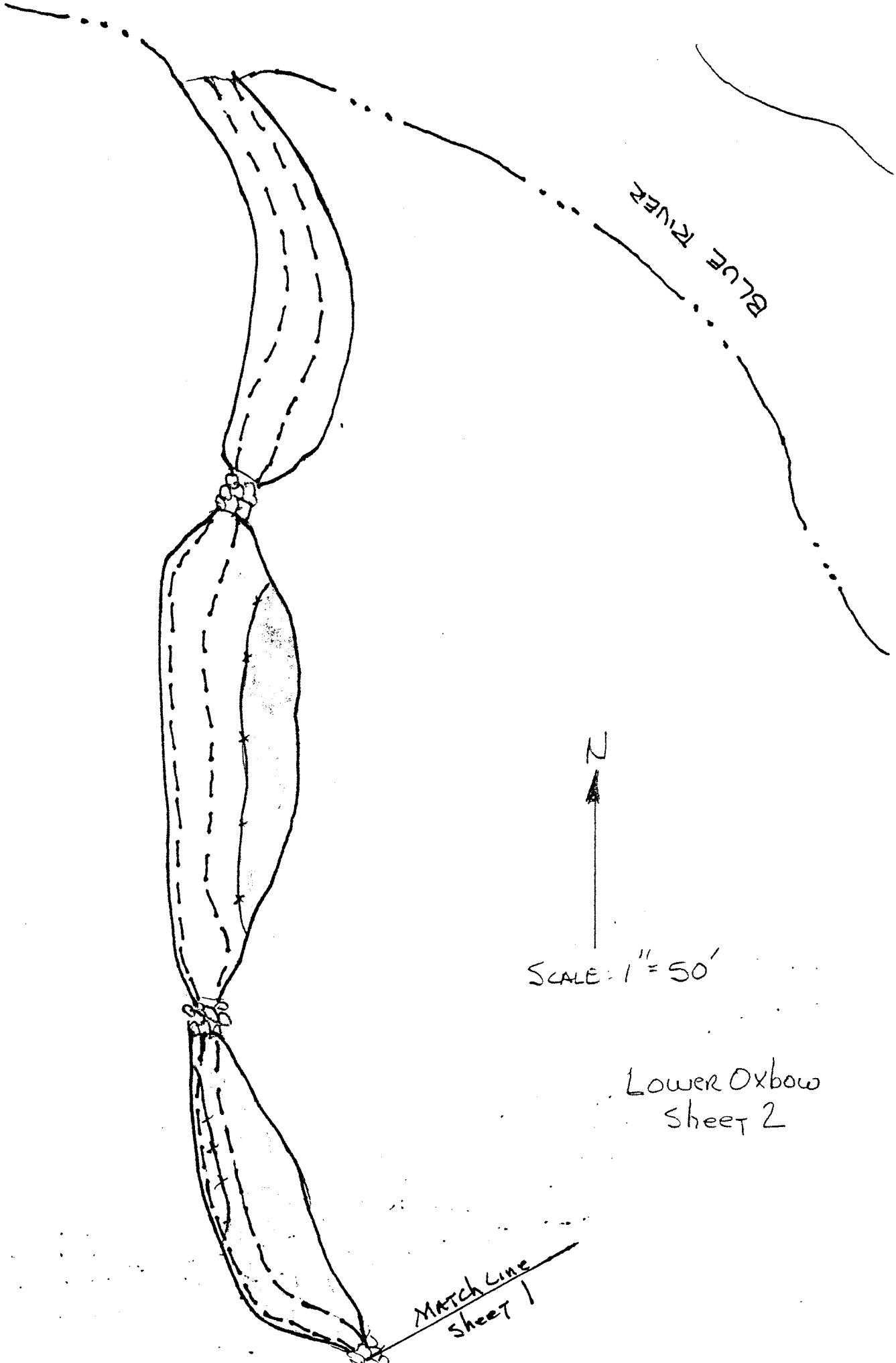
Sheet 1


Match line
Sheet 3
N
Scale: 1" = 50'
Matchline
Sheet 1
Upper Oxbow
Sheet 2



Upper Oxbow
Sheet 3


Match Line
Sheet 2
Lower Oxbow
Sheet 1
N
Scale: 1" = 50'



Lower Oxbow
Sheet 2

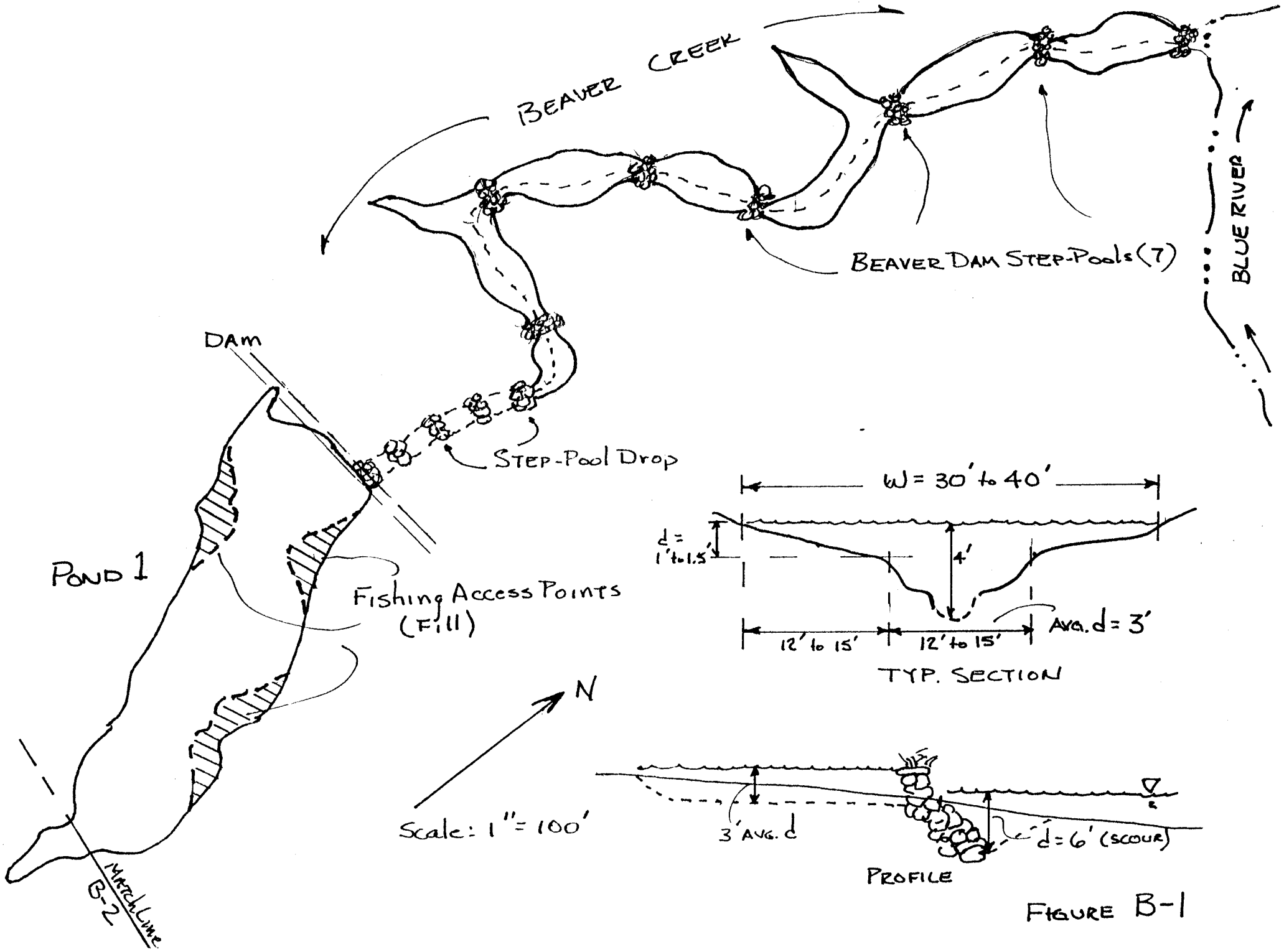

BEAVER CREEK
BLUE RIVER
BEAVER DAM STEP-POOLS (7)
DAM
STEP-POOL DROP
POND 1
FISHING ACCESS POINTS (FILL)
MATCHLINE B-2
N
SCALE: 1" = 100'
W = 30' to 40'
d = 1' to 1.5'
4'
AVG. d = 3'
12' to 15'
12' to 15'
TYP. SECTION
3' AVG. d
d = 6' (SCOUR)
PROFILE

FIGURE B-1

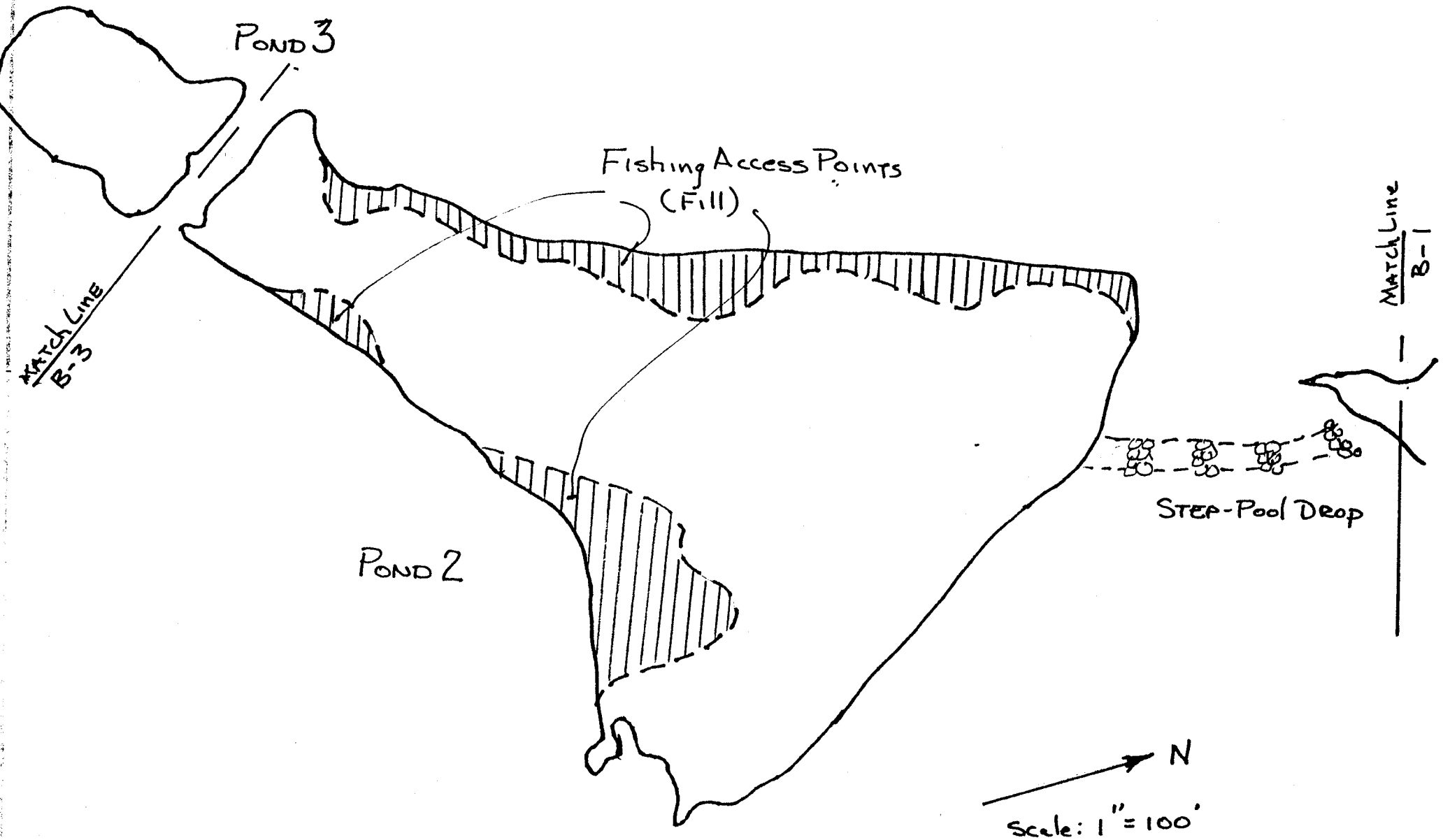

Pond 3
Fishing Access Points
(Fill)
Match Line
B-3
Match Line
B-1
Step-Pool Drop
Pond 2
N
Scale: 1" = 100'

FIGURE B-2

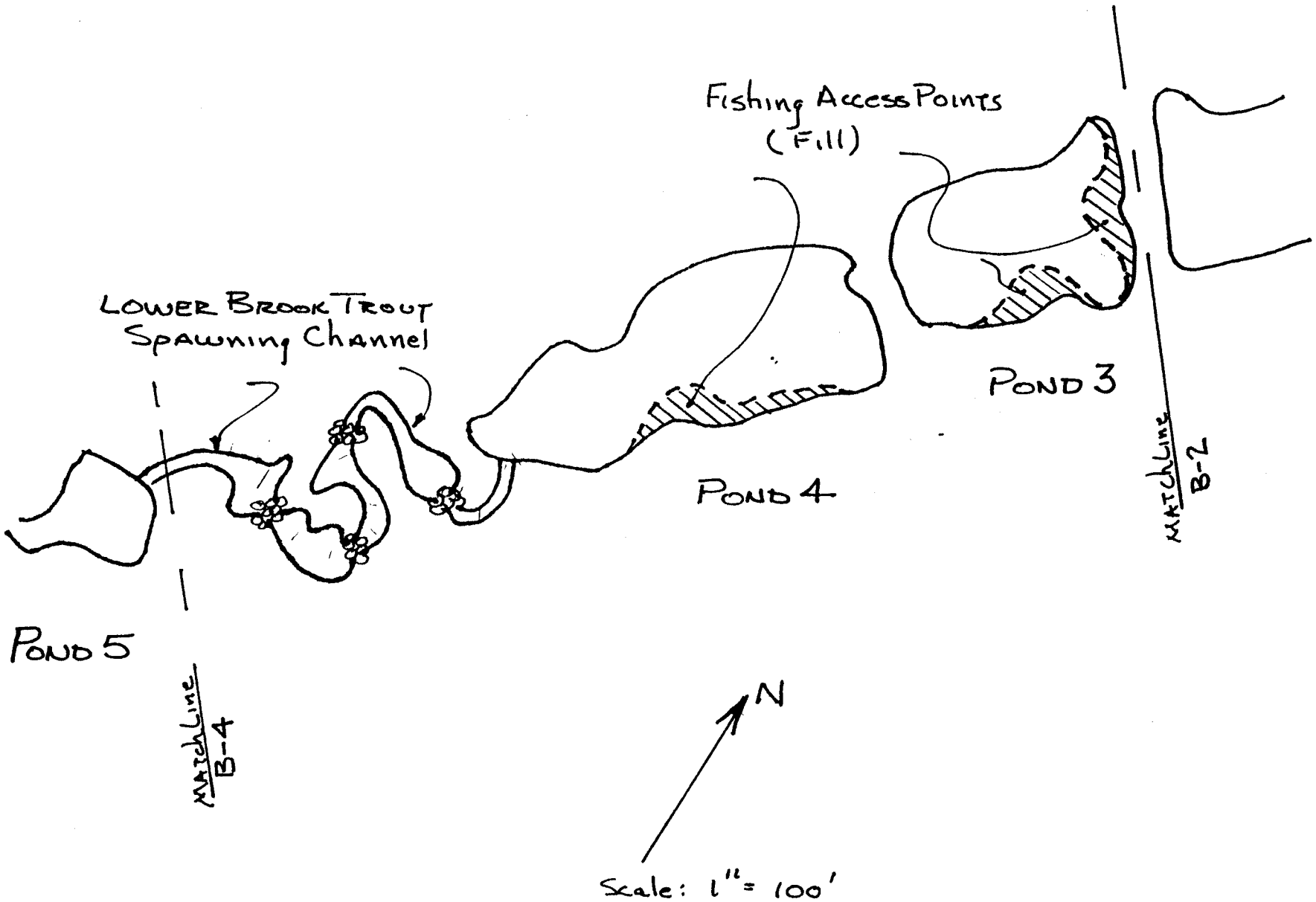
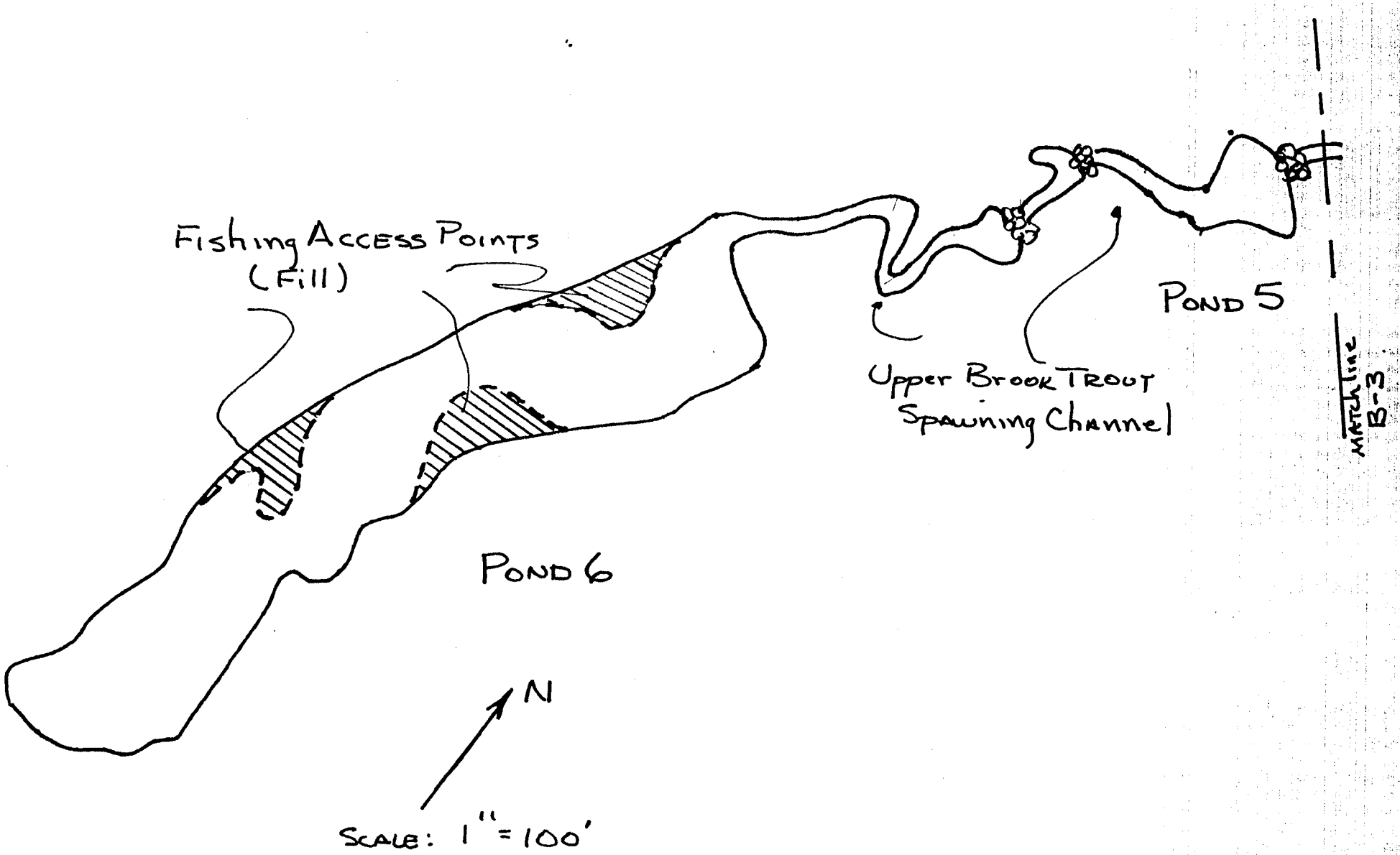

Fishing Access Points
(Fill)
Lower Brook Trout
Spawning Channel
Pond 3
Pond 4
Pond 5
Matchline
B-2
Matchline
B-4
N
Scale: 1" = 100'

Figure B-3


Fishing Access Points
(Fill)
Pond 6
Upper Brook Trout
Spawning Channel
Pond 5
Matchline
B-3
N
Scale: 1" = 100'