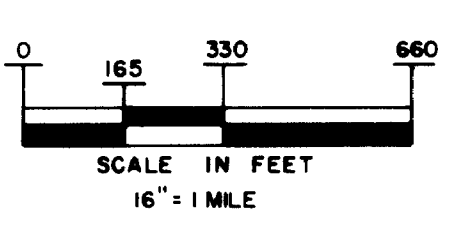


N

LEGEND

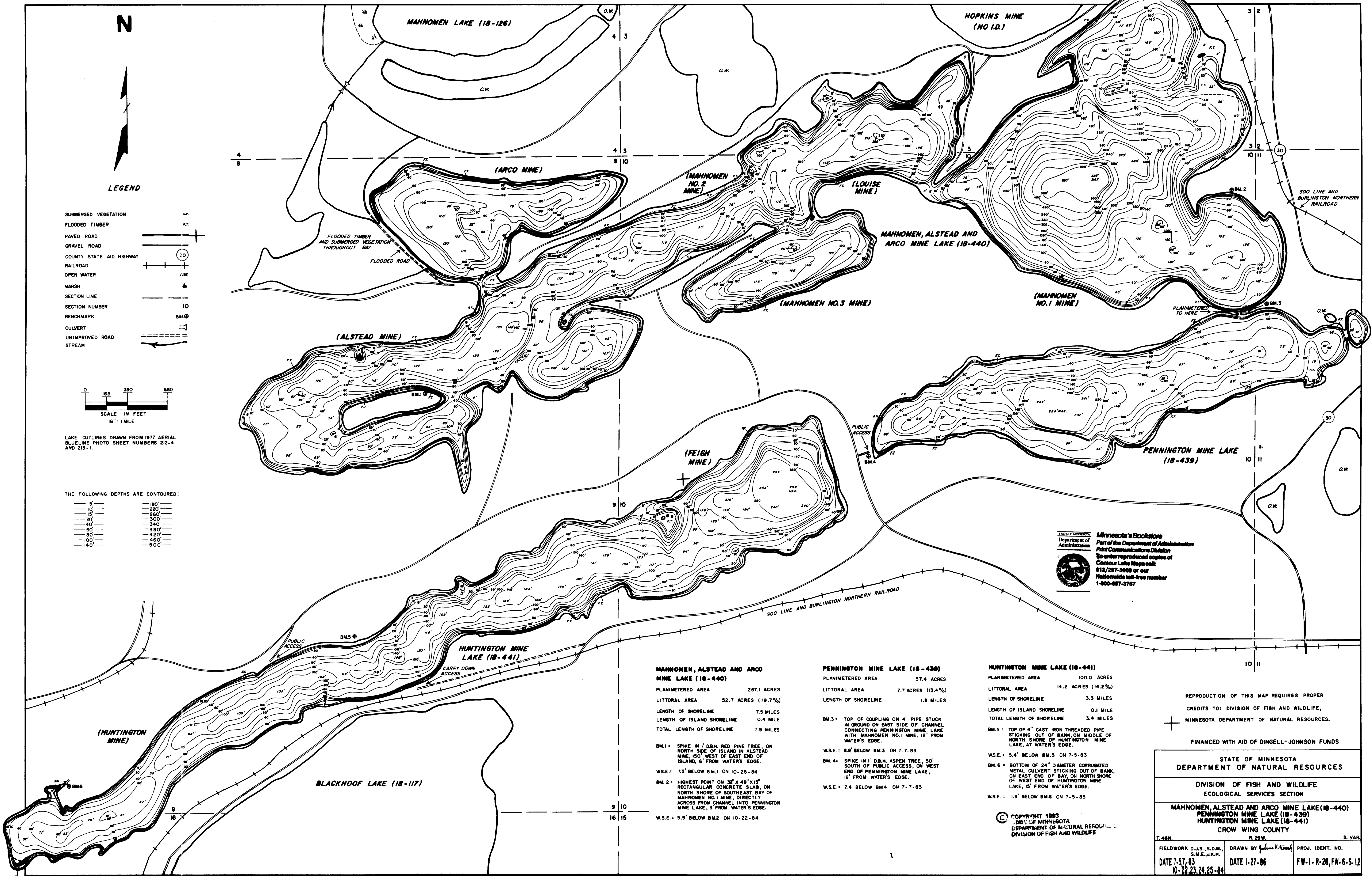
- SUBMERGED VEGETATION S.V.
- FLOODED TIMBER F.T.
- PAVED ROAD
- GRAVEL ROAD
- COUNTY STATE AID HIGHWAY 20
- RAILROAD
- OPEN WATER (O.W.)
- MARSH
- SECTION LINE
- SECTION NUMBER 10
- BENCHMARK B.M. 10
- CULVERT
- UNIMPROVED ROAD
- STREAM



LAKE OUTLINES DRAWN FROM 1977 AERIAL BLUELINE PHOTO SHEET NUMBERS 212-4 AND 213-1.

THE FOLLOWING DEPTHS ARE CONTOURED:

5'	180'
10'	220'
15'	260'
20'	300'
30'	340'
40'	380'
50'	420'
60'	460'
80'	500'



MAHOMEN, ALSTEAD AND ARCO MINE LAKE (18-440)
 PLANIMETERED AREA 267.1 ACRES
 LITTORAL AREA 52.7 ACRES (19.7%)
 LENGTH OF SHORELINE 7.5 MILES
 LENGTH OF ISLAND SHORELINE 0.4 MILE
 TOTAL LENGTH OF SHORELINE 7.9 MILES

B.M. 1: SPIKE IN 1' D.B.H. RED PINE TREE, ON NORTH SIDE OF ISLAND IN ALSTEAD MINE, 150' WEST OF EAST END OF ISLAND, 6' FROM WATER'S EDGE.
 W.S.E.: 7.5' BELOW B.M. 1 ON 10-25-84

B.M. 2: HIGHEST POINT ON 32" X 49" X 15" RECTANGULAR CONCRETE SLAB, ON NORTH SHORE OF SOUTHEAST BAY OF MAHOMEN NO. 1 MINE, DIRECTLY ACROSS FROM CHANNEL INTO PENNINGTON MINE LAKE, 3' FROM WATER'S EDGE.
 W.S.E.: 5.9' BELOW B.M. 2 ON 10-22-84

PENNINGTON MINE LAKE (18-439)
 PLANIMETERED AREA 57.4 ACRES
 LITTORAL AREA 7.7 ACRES (13.4%)
 LENGTH OF SHORELINE 1.8 MILES

B.M. 3: TOP OF COUPLING ON 4" PIPE STUCK IN GROUND ON EAST SIDE OF CHANNEL CONNECTING PENNINGTON MINE LAKE WITH MAHOMEN NO. 1 MINE, 12' FROM WATER'S EDGE.
 W.S.E.: 8.9' BELOW B.M. 3 ON 7-7-83

B.M. 4: SPIKE IN 1' D.B.H. ASPEN TREE, 50' SOUTH OF PUBLIC ACCESS, ON WEST END OF PENNINGTON MINE LAKE, 12' FROM WATER'S EDGE.
 W.S.E.: 7.4' BELOW B.M. 4 ON 7-7-83

HUNTINGTON MINE LAKE (18-441)
 PLANIMETERED AREA 100.0 ACRES
 LITTORAL AREA 14.2 ACRES (14.2%)
 LENGTH OF SHORELINE 3.3 MILES
 LENGTH OF ISLAND SHORELINE 0.1 MILE
 TOTAL LENGTH OF SHORELINE 3.4 MILES

B.M. 5: TOP OF 4" CAST IRON THREADED PIPE STICKING OUT OF BANK ON MIDDLE OF NORTH SHORE OF HUNTINGTON MINE LAKE, AT WATER'S EDGE.
 W.S.E.: 5.4' BELOW B.M. 5 ON 7-5-83

B.M. 6: BOTTOM OF 24" DIAMETER CORRUGATED METAL CULVERT STICKING OUT OF BANK, ON EAST END OF BAY, ON NORTH SHORE OF WEST END OF HUNTINGTON MINE LAKE, 15' FROM WATER'S EDGE.
 W.S.E.: 11.9' BELOW B.M. 6 ON 7-5-83

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STATE OF MINNESOTA DEPARTMENT OF NATURAL RESOURCES		
DIVISION OF FISH AND WILDLIFE ECOLOGICAL SERVICES SECTION		
MAHOMEN, ALSTEAD AND ARCO MINE LAKE (18-440) PENNINGTON MINE LAKE (18-439) HUNTINGTON MINE LAKE (18-441) CROW WING COUNTY		
T. 46N.	R. 29W.	S. 10VAR.
FIELDWORK D.J.S., S.D.M., S.M.E., J.K.H.	DRAWN BY <i>John K. Hines</i>	PROJ. IDENT. NO.
DATE 7-57-83 10-22, 23, 24, 25-84	DATE 1-27-86	FW-1-R-28, FW-6-S-12

B-0522