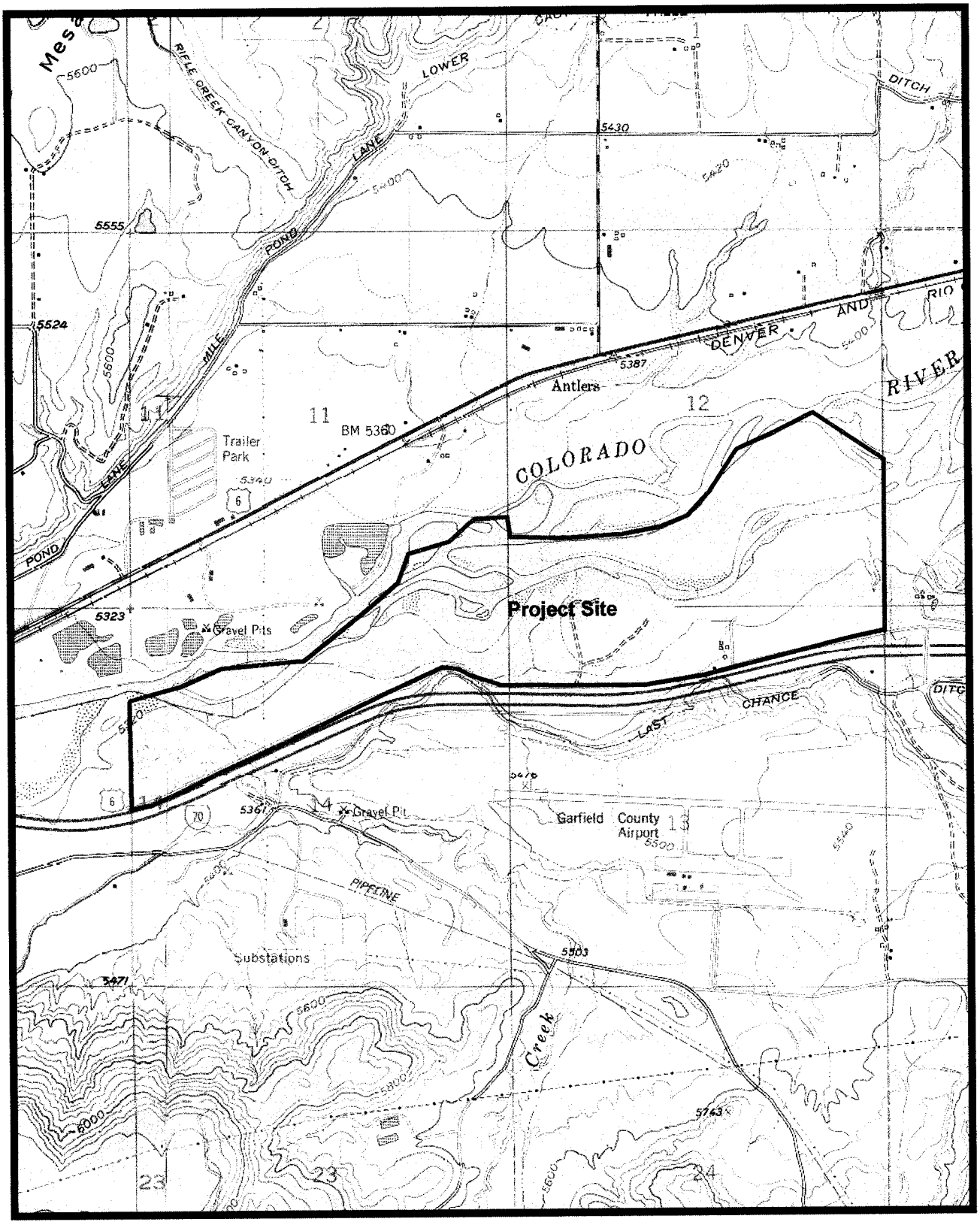
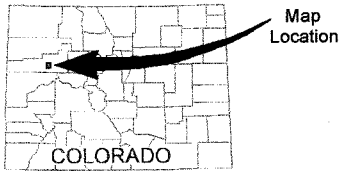
R 93 W



BASE: USGS 7.5 Minute Silt & Garfield, Colorado Quadrangles
Base: Photo revised 1987

FIGURE 1. Project Location Map



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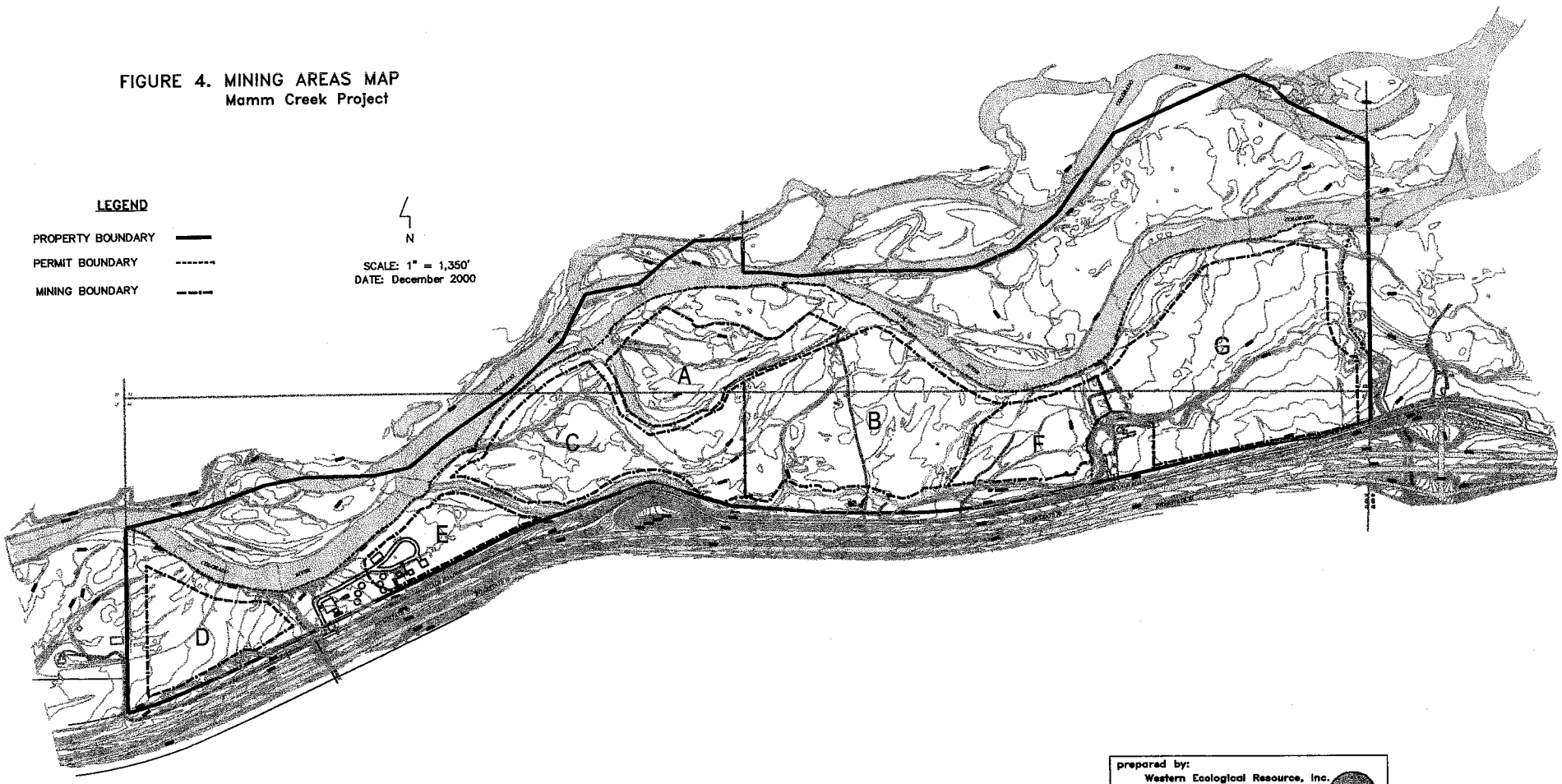
711 Walnut Street • Boulder, CO 80302

N

Scale 1" = 2000'
Contour Interval = 40'

FIGURE 4. MINING AREAS MAP
Mamm Creek Project



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Boulder, CO 80302
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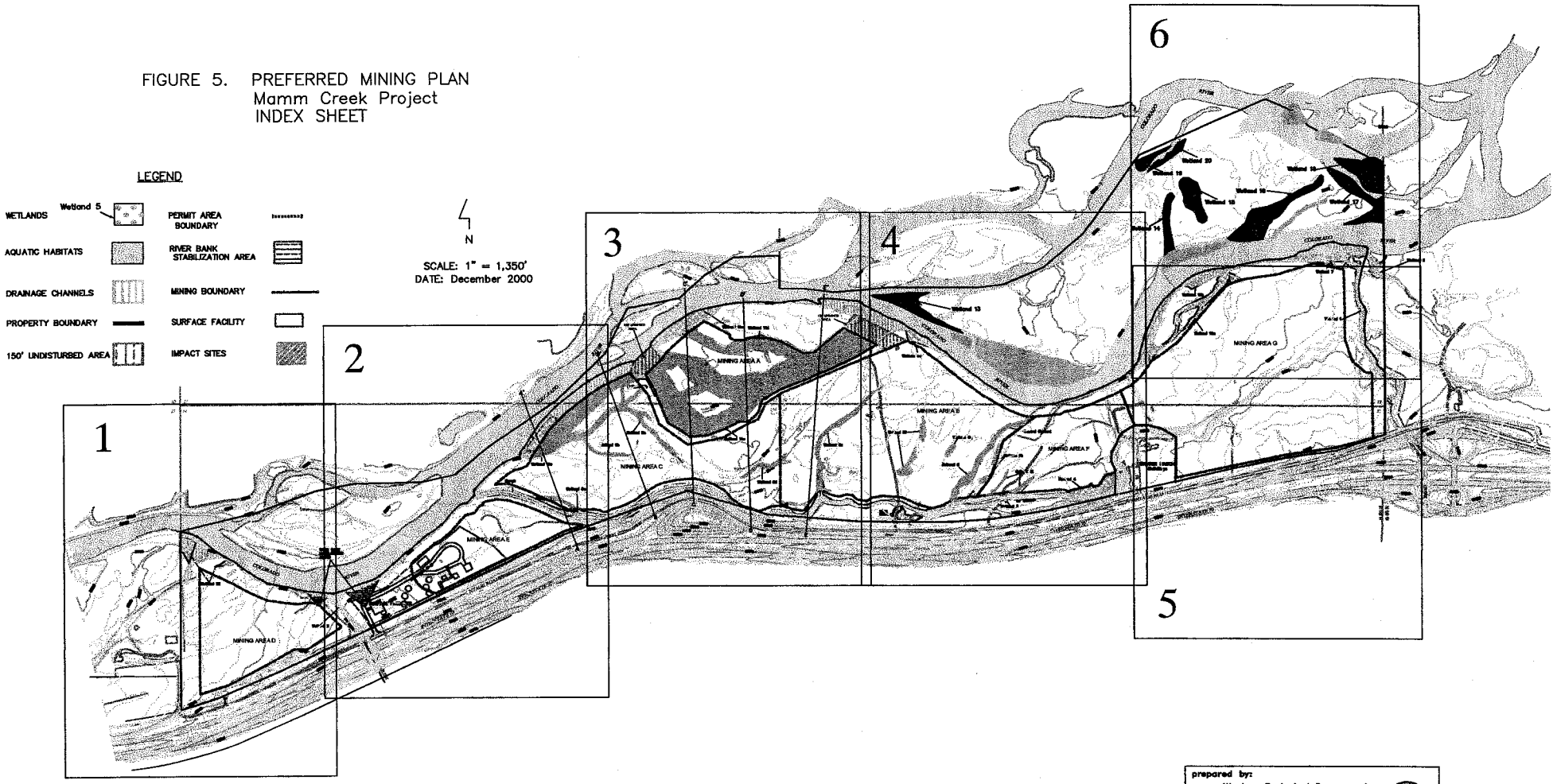
FIGURE 5. PREFERRED MINING PLAN
Mamm Creek Project
INDEX SHEET



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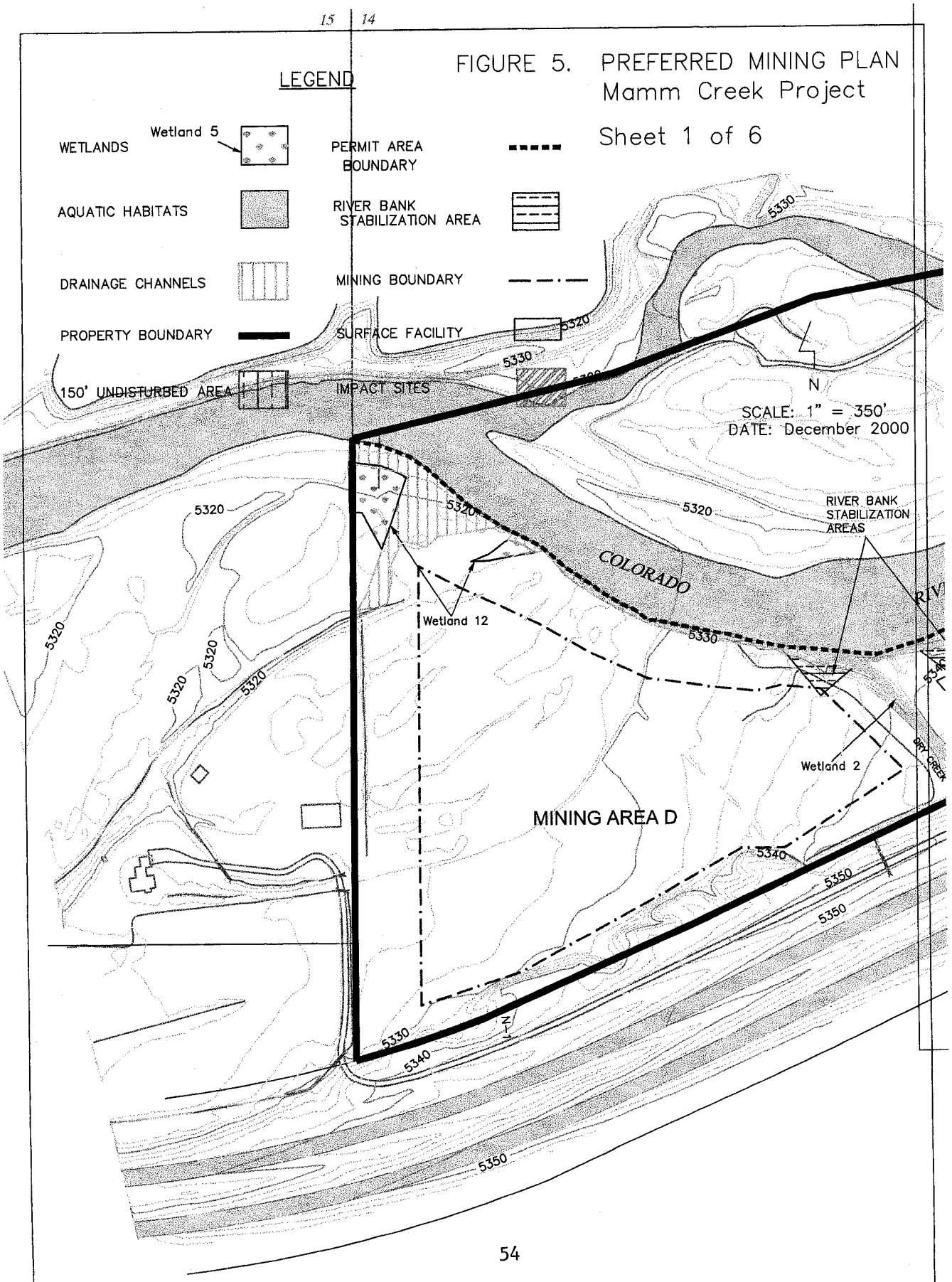

15
14
LEGEND
FIGURE 5. PREFERRED MINING PLAN
Mamm Creek Project
Sheet 1 of 6
WETLANDS
Wetland 5
PERMIT AREA BOUNDARY
AQUATIC HABITATS
RIVER BANK STABILIZATION AREA
DRAINAGE CHANNELS
MINING BOUNDARY
PROPERTY BOUNDARY
SURFACE FACILITY
150' UNDISTURBED AREA
IMPACT SITES
N
SCALE: 1" = 350'
DATE: December 2000
RIVER BANK STABILIZATION AREAS
COLORADO
Wetland 12
Wetland 2
MINING AREA D
5320
5330
5340
5350

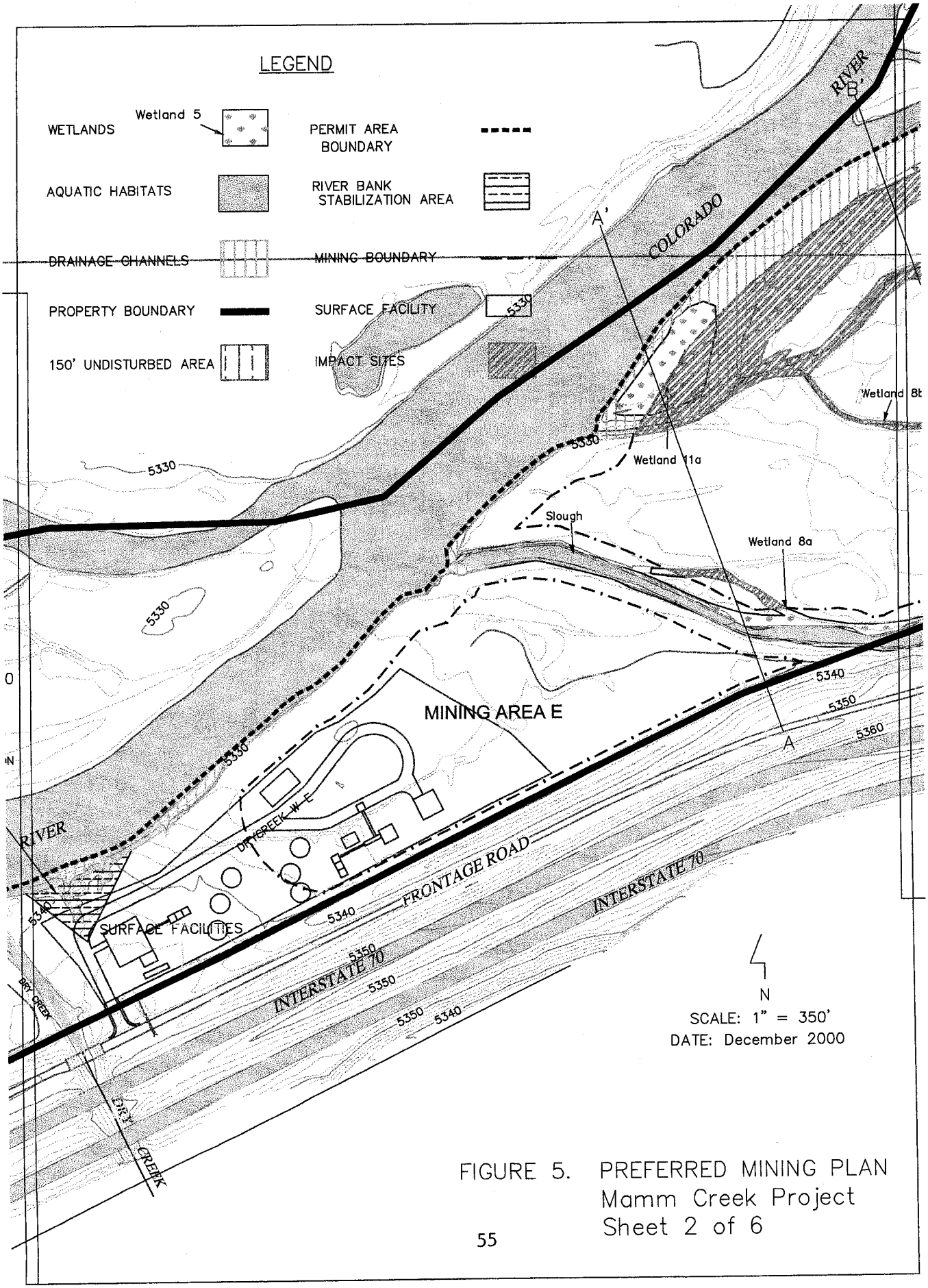


FIGURE 5. PREFERRED MINING PLAN
Mamm Creek Project
Sheet 2 of 6

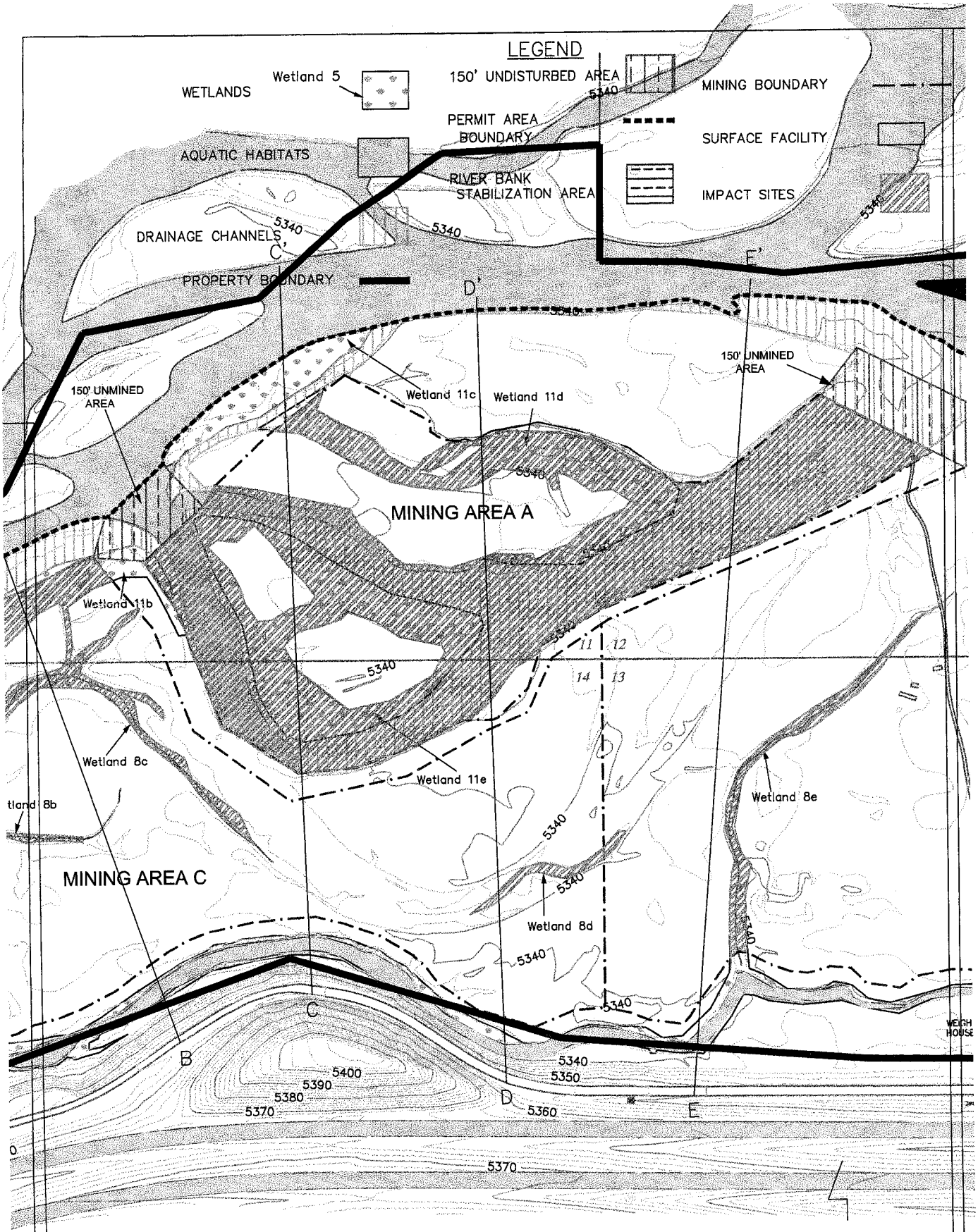
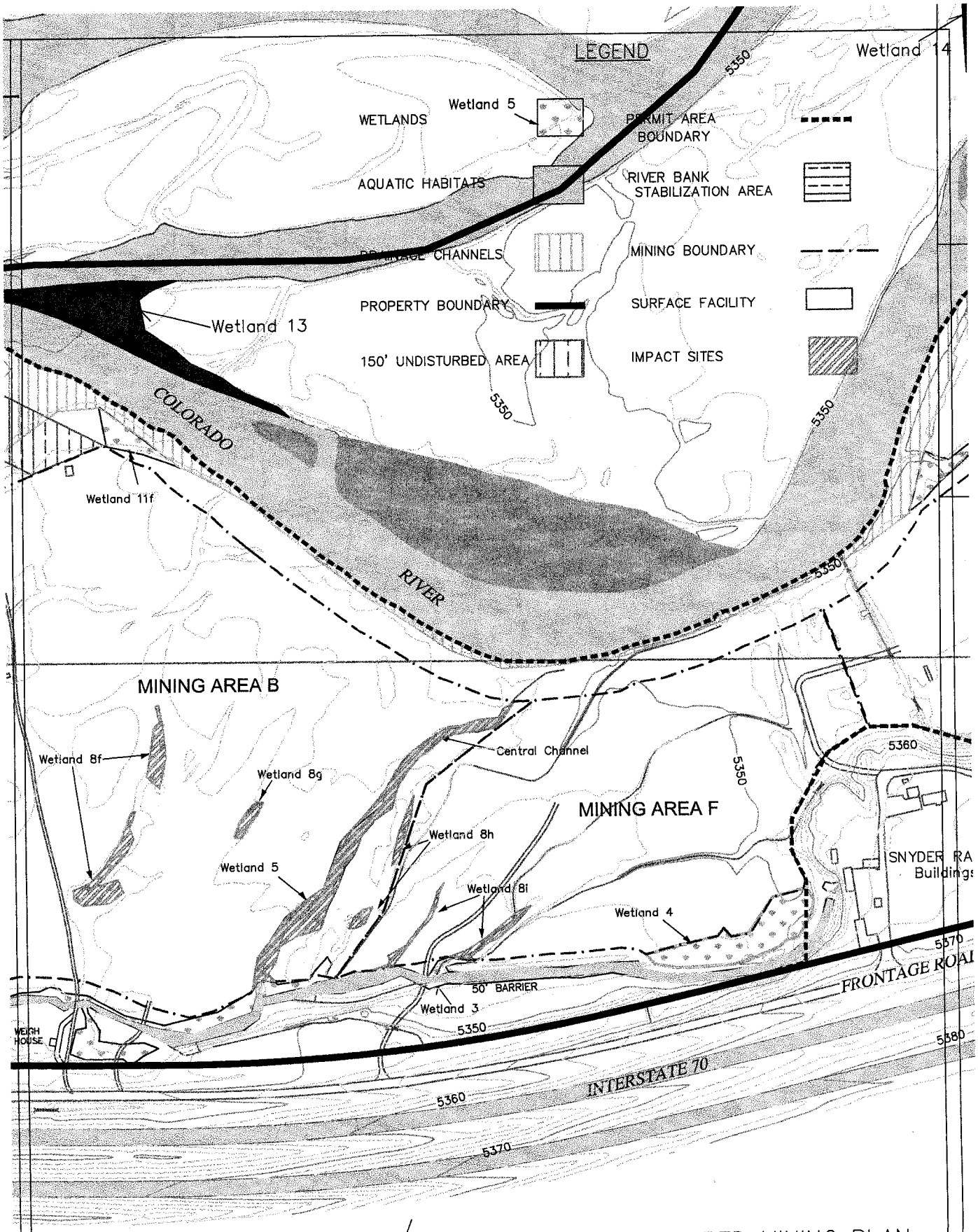


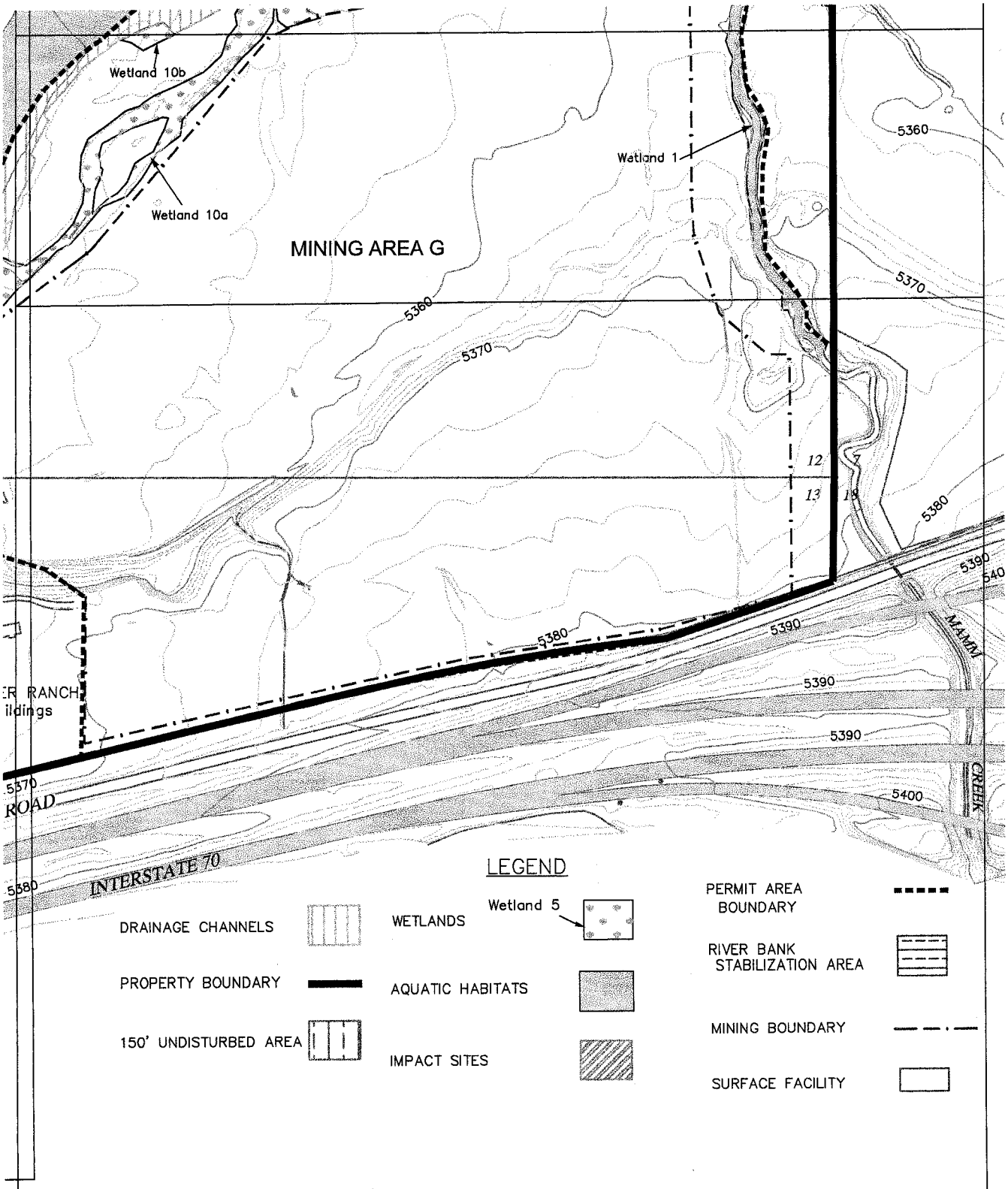
FIGURE 5. PREFERRED MINING PLAN
Mamm Creek Project
Sheet 3 of 6



SCALE: 1" = 350'
DATE: December 2000

N

FIGURE 5. PREFERRED MINING PLAN
Mamm Creek Project
Sheet 4 of 6



SCALE: 1" = 350'
DATE: December 2000

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FIGURE 5. PREFERRED MINING PLAN
Mamm Creek Project
Sheet 5 of 6

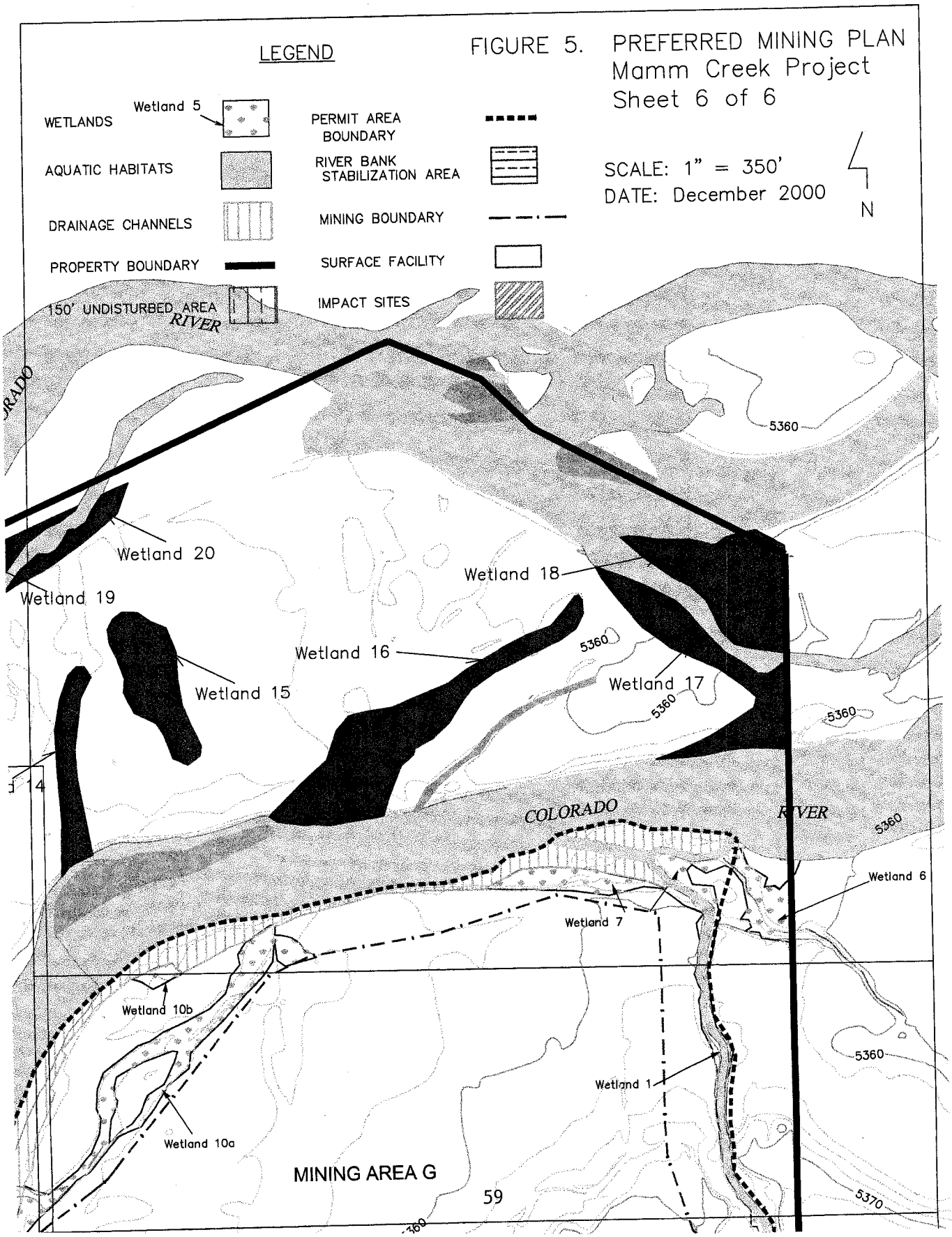
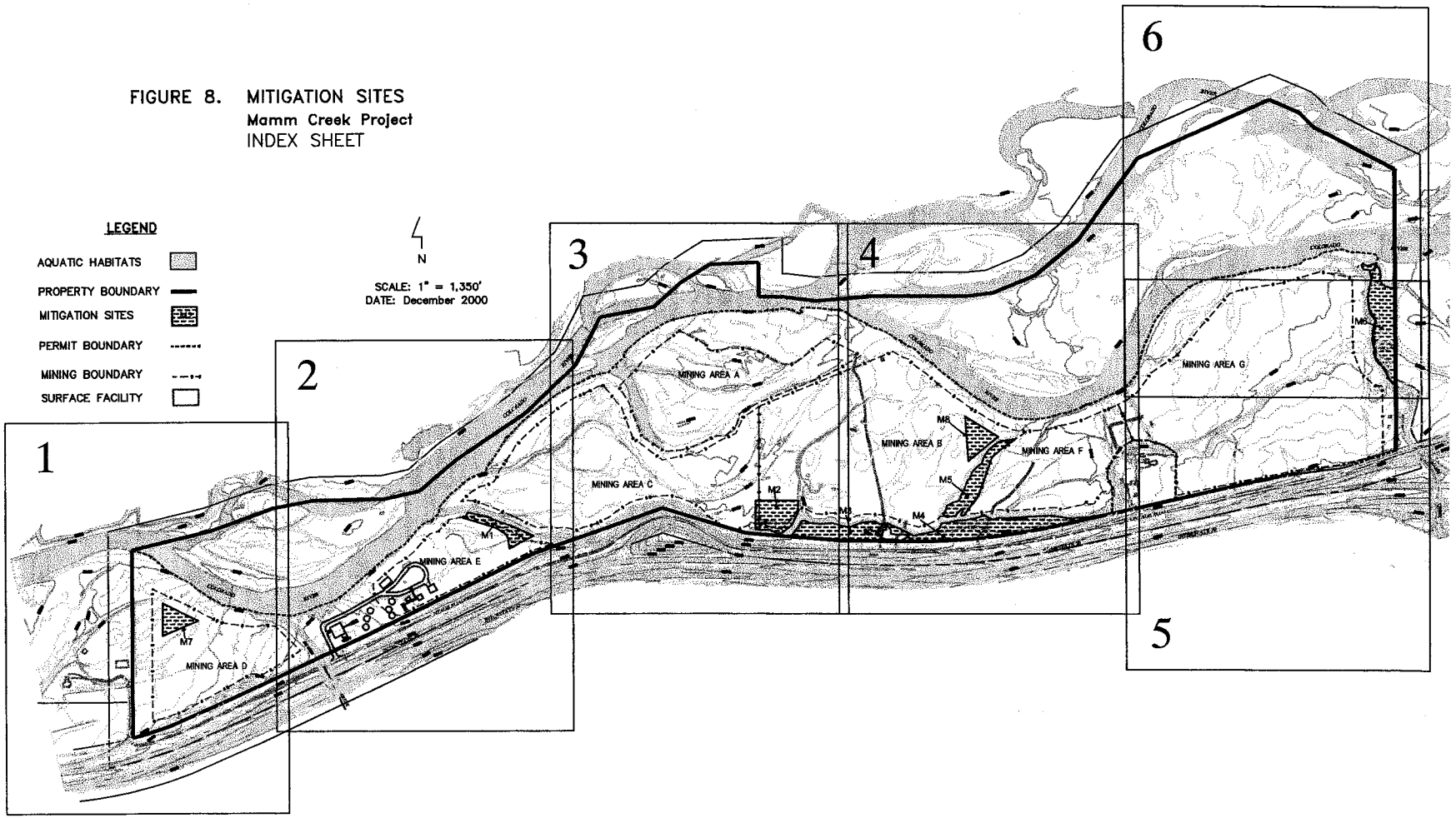

LEGEND
WETLANDS
Wetland 5
AQUATIC HABITATS
DRAINAGE CHANNELS
PROPERTY BOUNDARY
150' UNDISTURBED AREA
PERMIT AREA BOUNDARY
RIVER BANK STABILIZATION AREA
MINING BOUNDARY
SURFACE FACILITY
IMPACT SITES
FIGURE 5. PREFERRED MINING PLAN
Mamm Creek Project
Sheet 6 of 6
SCALE: 1" = 350'
DATE: December 2000
N
RIVER
5360
Wetland 20
Wetland 19
Wetland 18
Wetland 16
Wetland 15
Wetland 17
COLORADO
RIVER
Wetland 6
Wetland 7
Wetland 10b
Wetland 1
Wetland 10a
MINING AREA G
5370

FIGURE 8. MITIGATION SITES
Mamm Creek Project
INDEX SHEET



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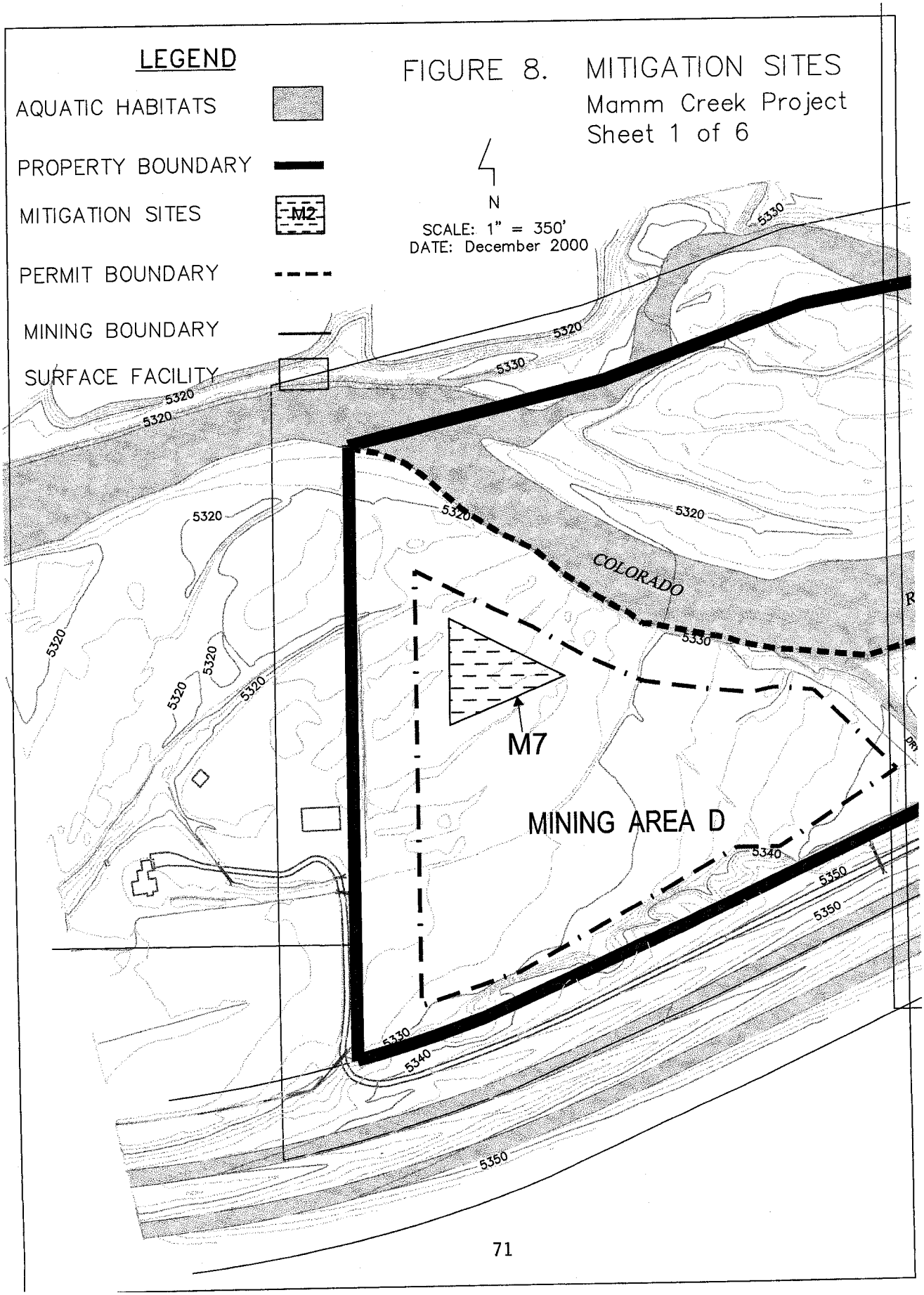

LEGEND
AQUATIC HABITATS
PROPERTY BOUNDARY
MITIGATION SITES
M2
PERMIT BOUNDARY
MINING BOUNDARY
SURFACE FACILITY
FIGURE 8. MITIGATION SITES
Mamm Creek Project
Sheet 1 of 6
N
SCALE: 1" = 350'
DATE: December 2000
COLORADO
M7
MINING AREA D
5320
5330
5340
5350

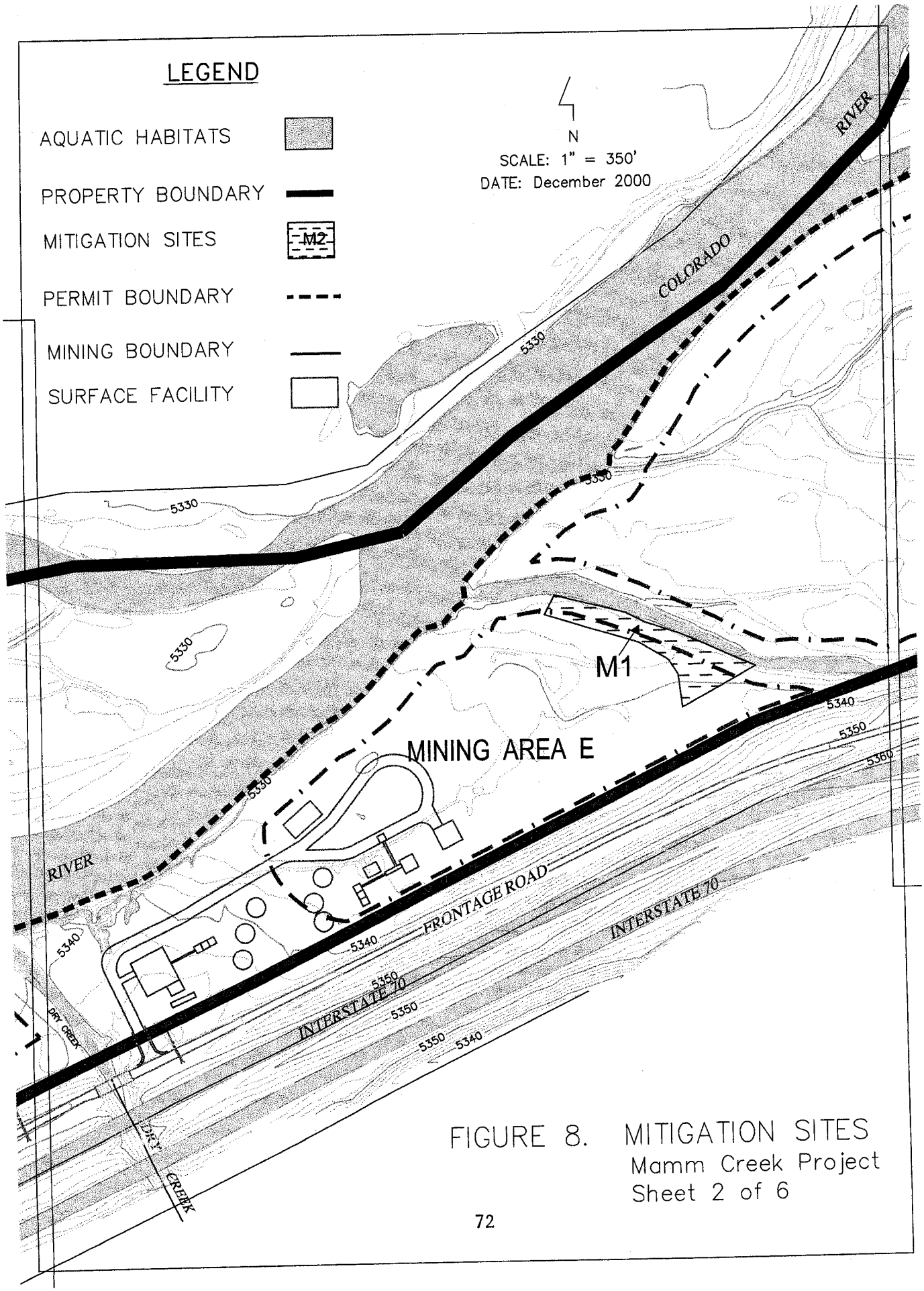


FIGURE 8. MITIGATION SITES
Mamm Creek Project
Sheet 2 of 6

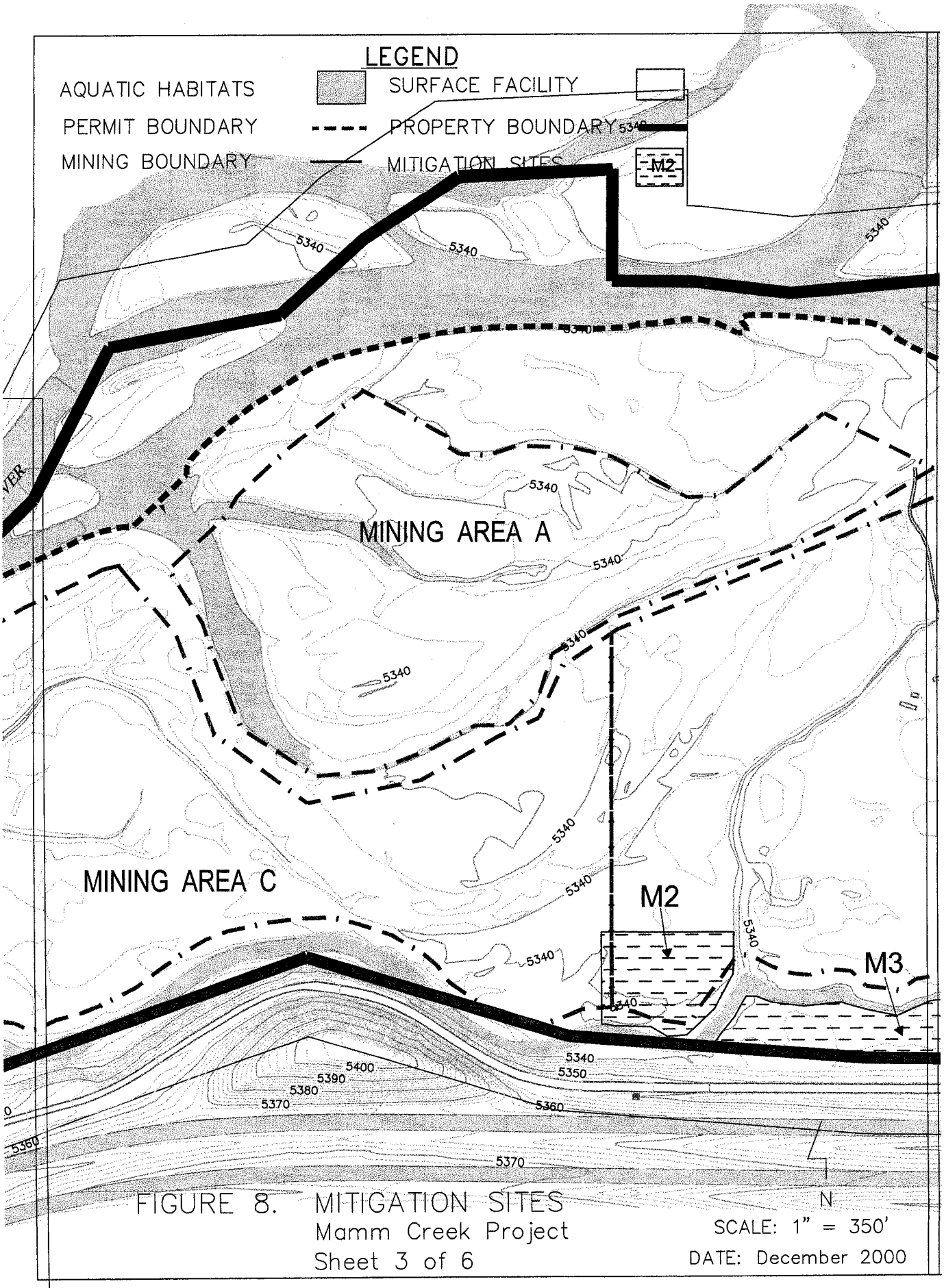


FIGURE 8. MITIGATION SITES
Mamm Creek Project
Sheet 3 of 6

SCALE: 1" = 350'
DATE: December 2000

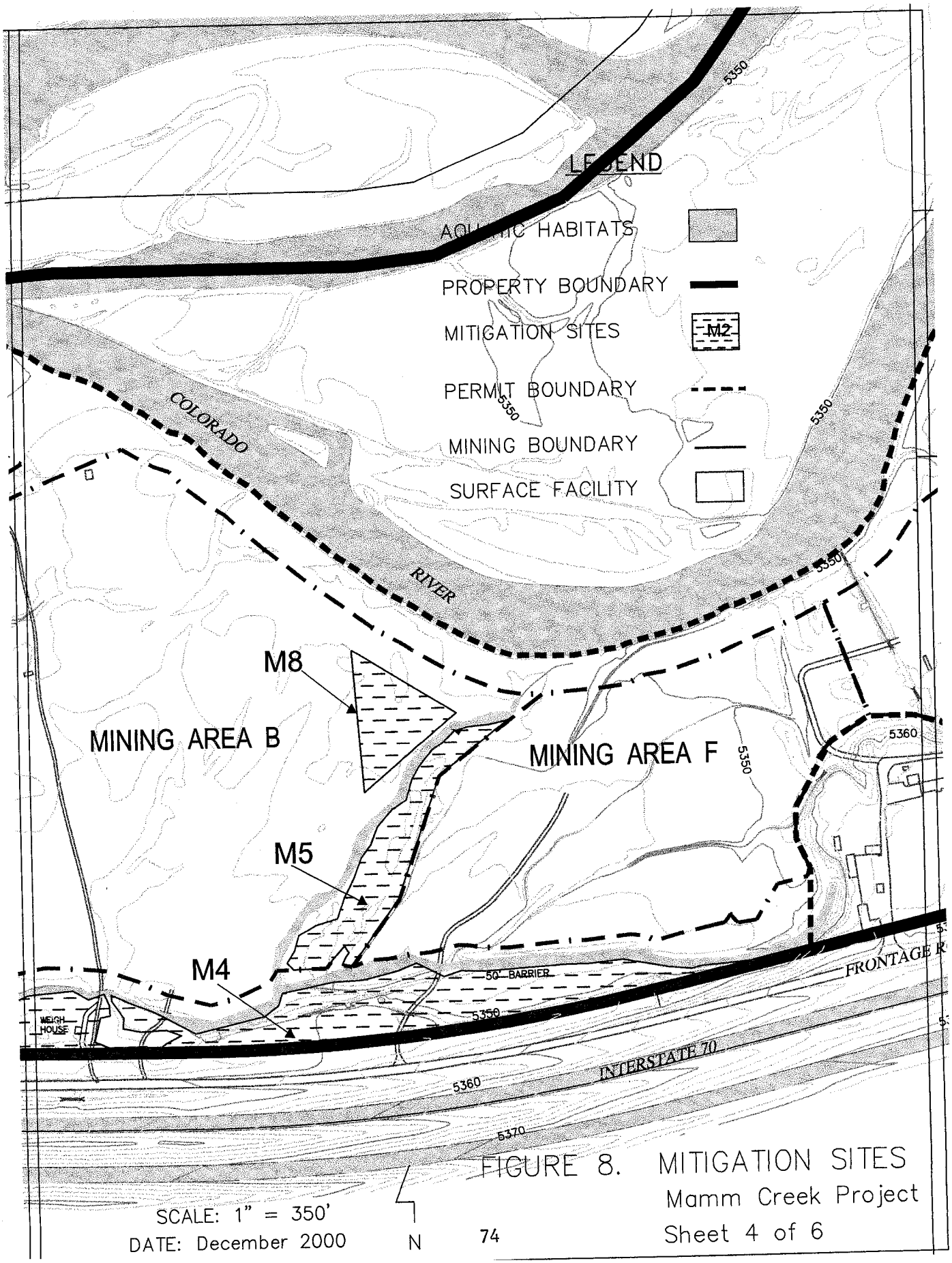


FIGURE 8. MITIGATION SITES
Mamm Creek Project
Sheet 4 of 6

SCALE: 1" = 350'
DATE: December 2000

N

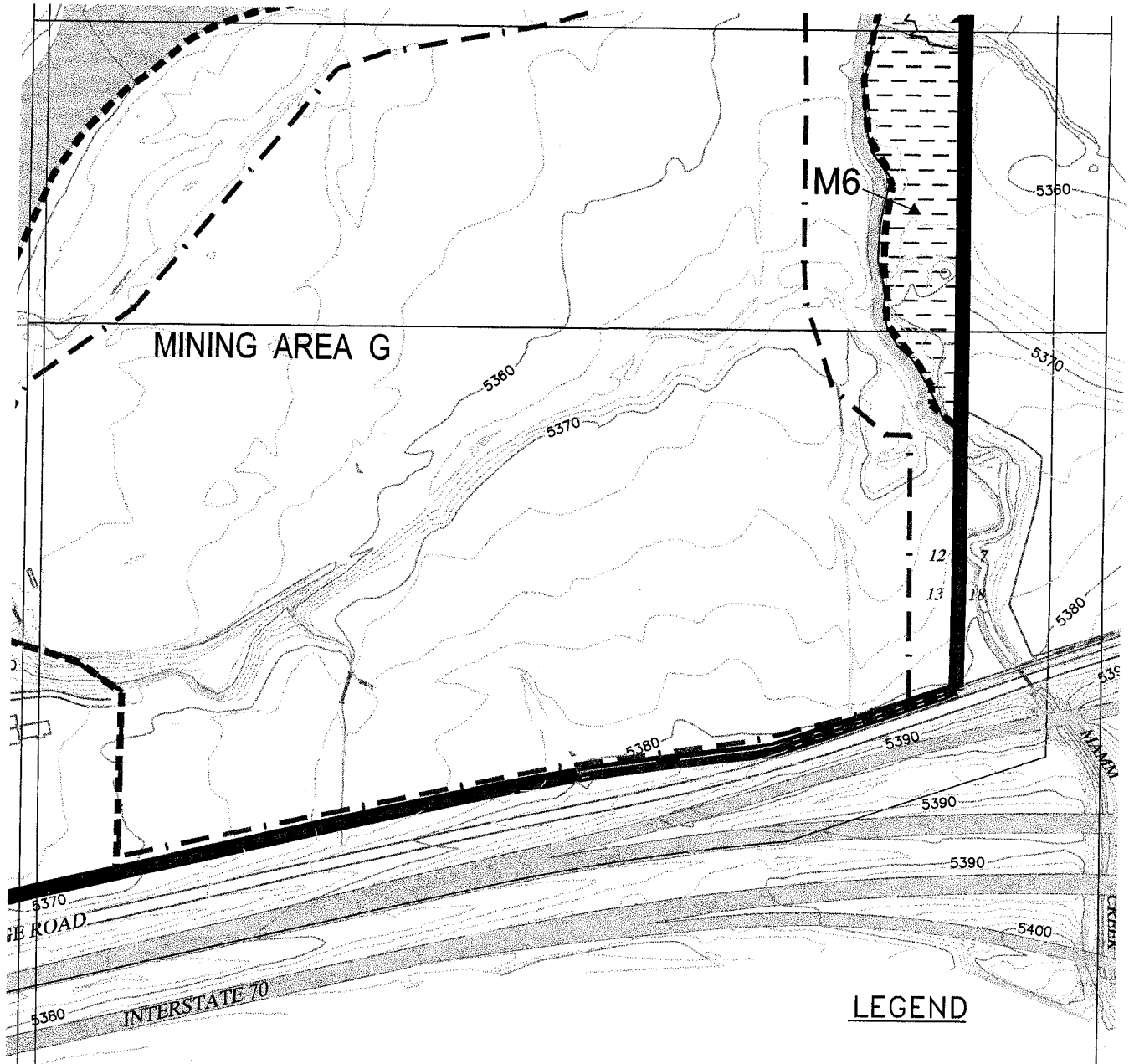
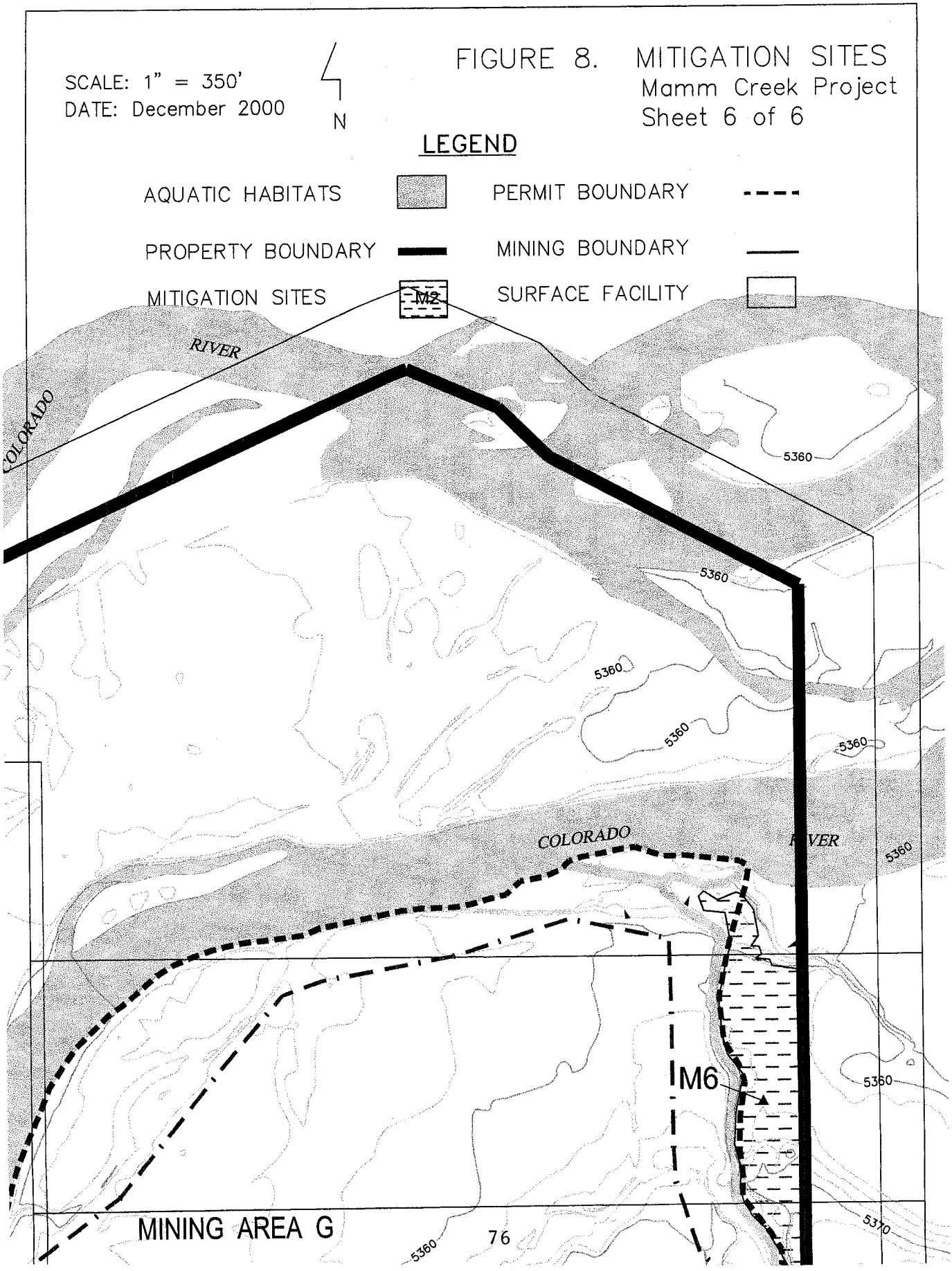


FIGURE 8. MITIGATION SITES
Mamm Creek Project
Sheet 5 of 6


SCALE: 1" = 350'
DATE: December 2000
N
FIGURE 8. MITIGATION SITES
Mamm Creek Project
Sheet 6 of 6
LEGEND
AQUATIC HABITATS
PERMIT BOUNDARY
PROPERTY BOUNDARY
MINING BOUNDARY
MITIGATION SITES
M2
SURFACE FACILITY
RIVER
COLORADO
5360
5360
5360
5360
5360
COLORADO
RIVER
5360
M6
5360
MINING AREA G
5360
5370