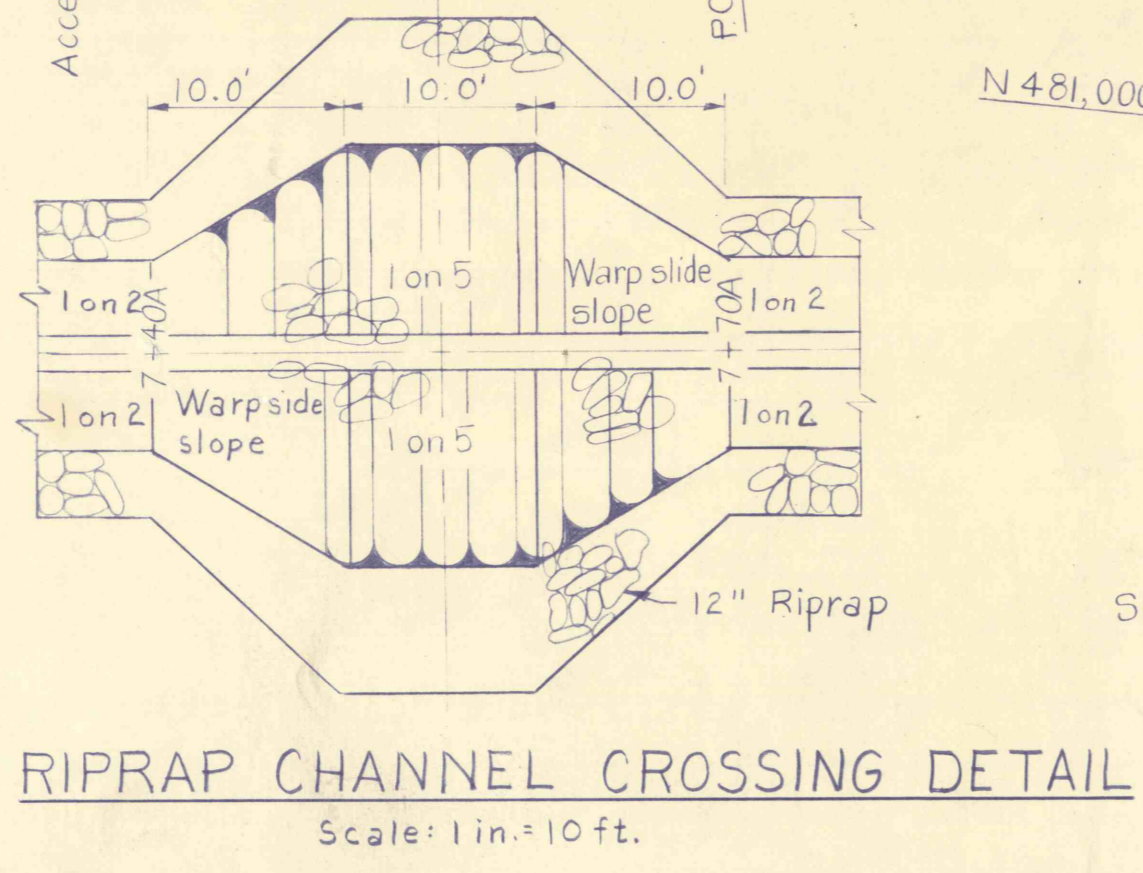
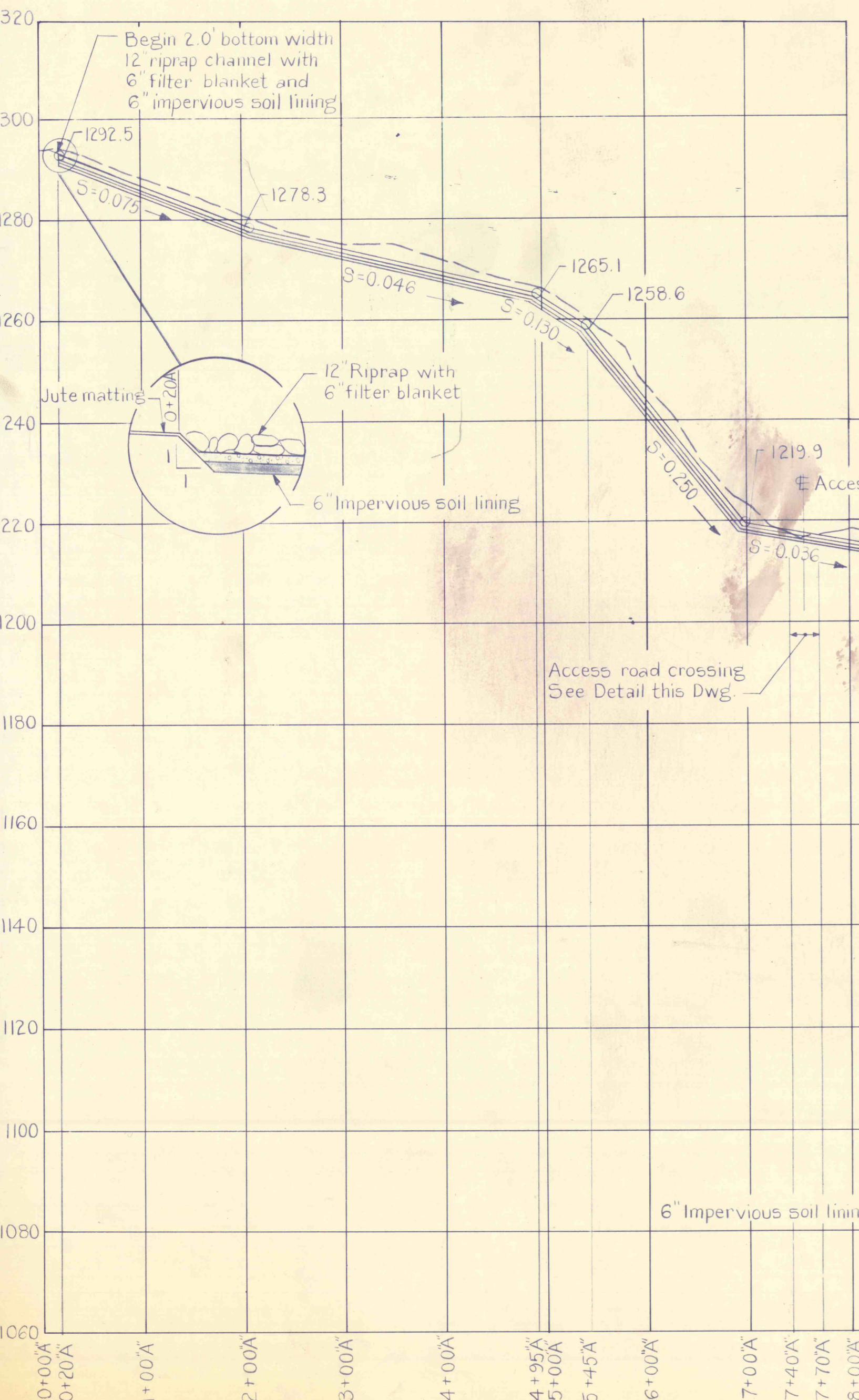
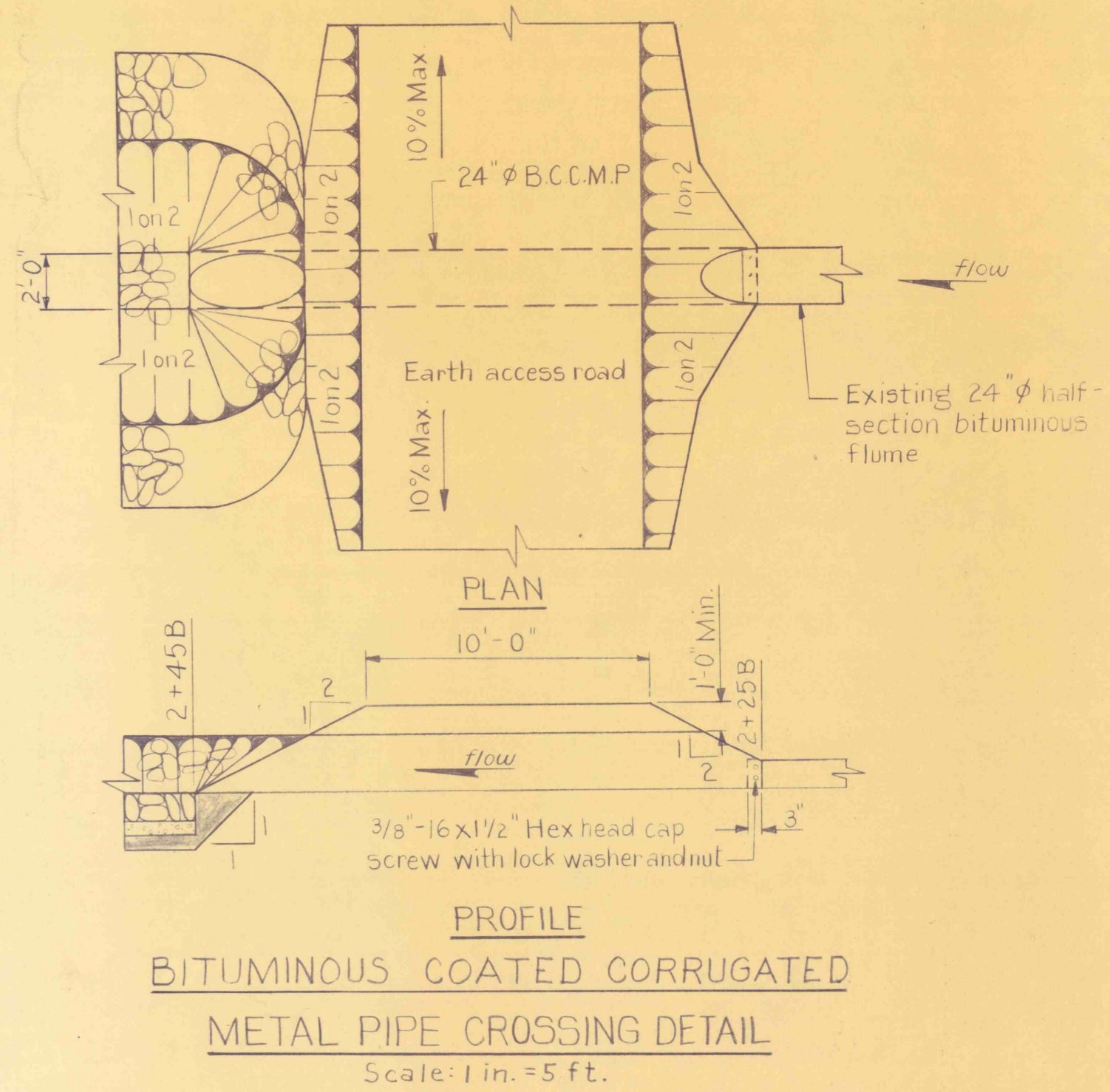
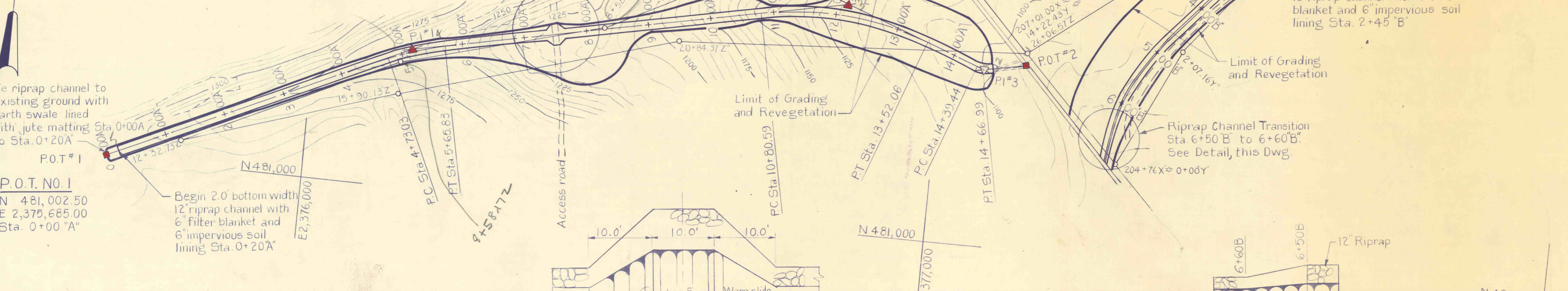


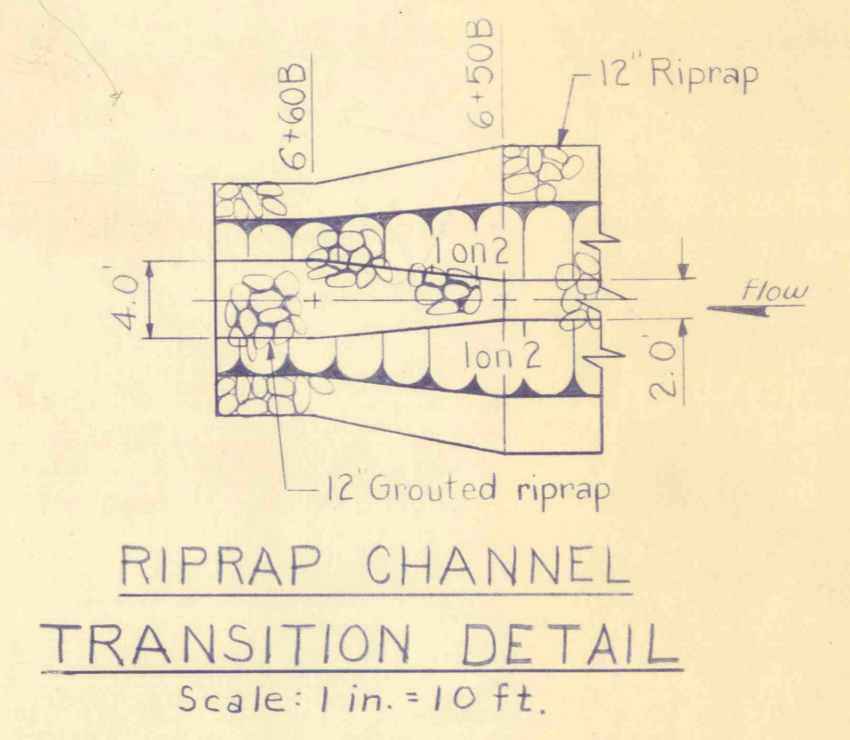
CURVE NO. 1
 P.I NO. 1
 N 481,222.00
 E 2,376,156.00
 Δ = 13° 17' 31.3"
 D = 14° 19' 26.22"
 R = 400.00'
 T = 46.61'
 L = 92.80'

CURVE NO. 2
 P.I NO. 2
 N 481,364.00
 E 2,376,842.00
 Δ = 31° 06' 30.66"
 D = 11° 27' 32.98"
 R = 500.00'
 T = 139.17'
 L = 271.47'

CURVE NO. 3
 P.I NO. 3
 N 481,284.00
 E 2,377,069.00
 Δ = 31° 34' 06.84"
 D = 114° 35' 29"
 R = 50.00'
 T = 14.13'
 L = 27.55'



PLAN
 Scale: 1 in. = 100 ft.

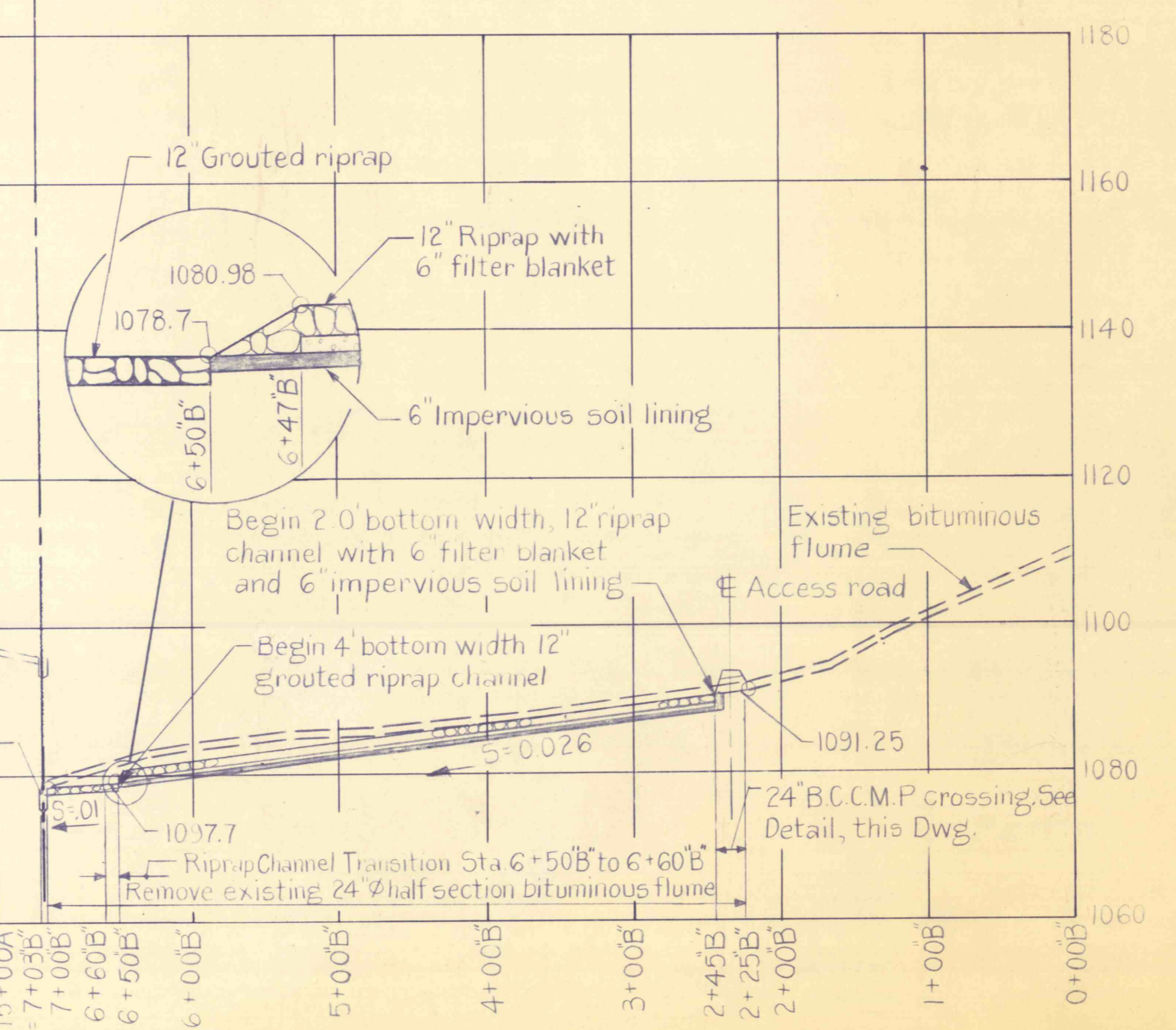


RIPRAP CHANNEL TRANSITION DETAIL
 Scale: 1 in. = 10 ft.

BENCH MARK

No.	Elevation	Location and Description
1	1141.04	Drill hole in concrete headwall at end of flume Sta. 210+34 X

72" CONCRETE FLUME (COAL RUN)



PROFILE CHANNEL "B"
 Scale: Hor. 1 in. = 100 ft, Vert. 1 in. = 20 ft.

TRAVERSE DATA

Traverse Station	Coordinates	
	North	East
200+00 X	480,817.00	2,377,630.00
204+76 X	481,155.88	2,377,295.73
207+01 X	481,316.06	2,377,137.72
210+01 X	481,529.64	2,376,927.04
210+35 X	481,553.84	2,376,903.12
204+76 X		
0+00 Y	481,155.88	2,377,295.73
2+07.16 Y	481,343.73	2,377,383.02
4+55.19 Y	481,536.55	2,377,539.01
7+00.93 Y	481,622.50	2,377,769.23
10+22.88 Y	481,581.35	2,377,453.13
14+22.43 Y		
207+01 X	481,316.06	2,377,137.72
210+01 X	481,529.64	2,376,927.04
5+26.05 Z	481,286.39	2,376,460.45
8+58.17 Z	481,199.42	2,376,139.82
12+32.73 Z	481,037.52	2,375,801.95
15+90.13 Z	481,148.68	2,376,141.52
20+48.37 Z	481,277.83	2,376,581.06
26+06.57 Z		
207+01 X	481,316.06	2,377,137.72

NO.	DATE	REVISION	APPR.
SUBMITTED			
PROJECT CO-ORDINATOR			
APPROVED			
CHIEF-DIVISION OF MINE RECLAMATION			
APPROVED			
DIRECTOR-BUREAU OF DESIGN			
PRE FINAL			
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES OFFICE OF RESOURCES MANAGEMENT			
CONTRACT NO. SL I26-2-7/9 R			
MINE DRAINAGE POLLUTION ABATEMENT REMEDIAL WORK SWATARA CREEK WATERSHED			
FRAILEY TWP.		SCHUYLKILL CO., PA.	
COAL RUN PLAN AND PROFILES			
DRAWN BY	DATE	DRAWING NO.	
CHECKED BY	SCALE	7 of 12	
	As shown		