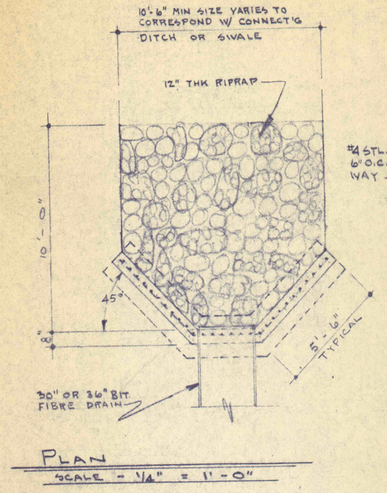
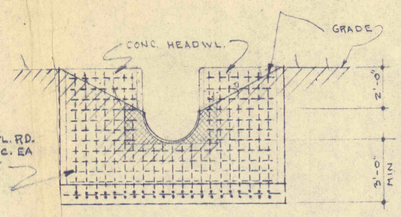


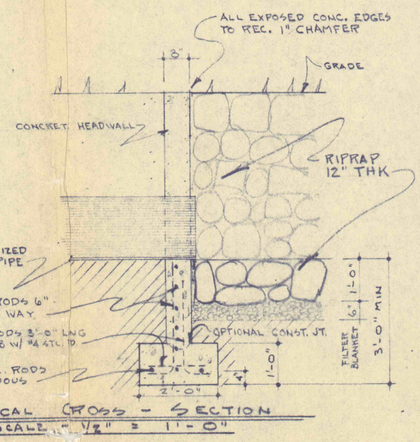
PLAN

SCALE - 1/4" = 1'-0"



ELEVATION

SCALE - 1/4" = 1'-0"

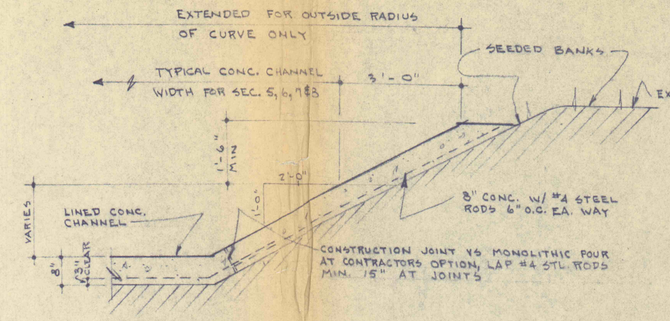


TYPICAL CROSS - SECTION

SCALE - 1/2" = 1'-0"

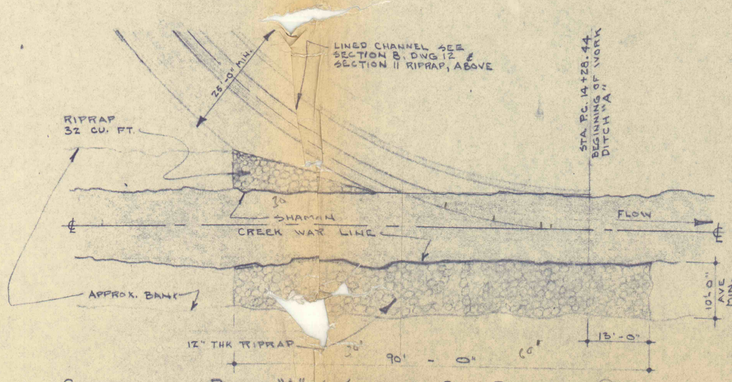
TYPICAL END DETAIL OF BIT. DRAIN — (B)

SCALE - AS SHOWN



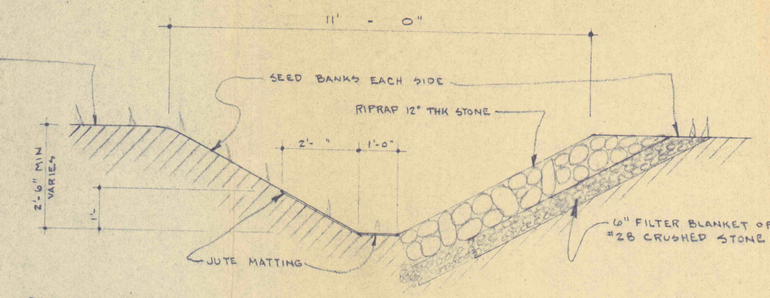
TYPICAL EXTENDED CONCREE SECTION FOR CONC. CHANNEL - (11)

SCALE - 1/2" = 1'-0"



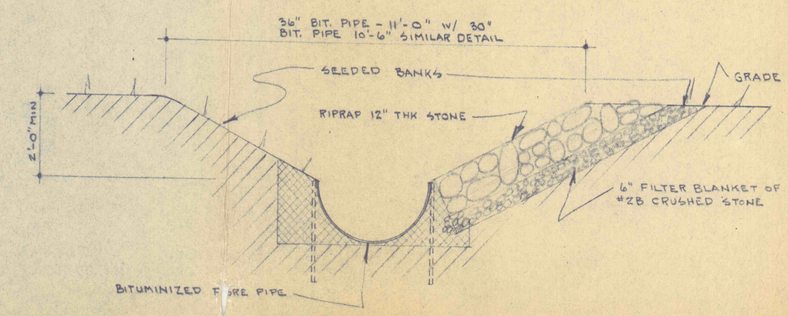
CONNECTION OF DITCH "A" / SHAMOKIN CK. DETAIL - (C)

SCALE - 1/16" = 1'-0"



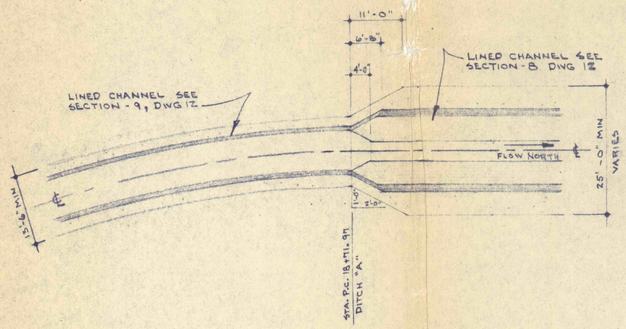
TYPICAL RIPRAP SECTION FOR DIVERSION DITCH - (12)

SCALE - 1/2" = 1'-0"



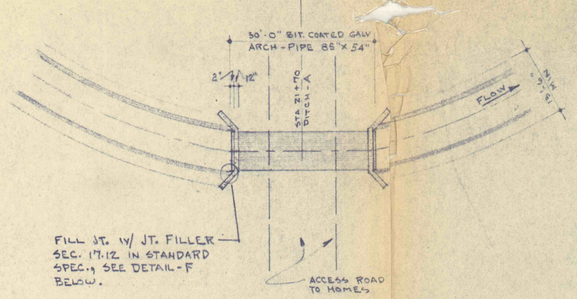
TYPICAL RIPRAP SECTION FOR BITUMINIZED PIPE - (13)

SCALE - 1/2" = 1'-0"



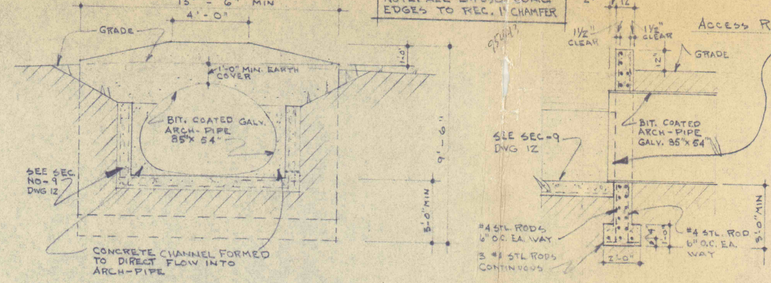
CONN. DETAIL OF SECTIONS 8 & 9 ON DITCH "A" - (D)

SCALE - 1/16" = 1'-0"



DETAIL OF BITUMINOUS COATED GALV. STEEL ARCH-PIPE IN VILLAGE OF EXCELSIOR, BETWEEN STA 21+55 & 21+85 "A" - (E)

SCALE - 1/16" = 1'-0"



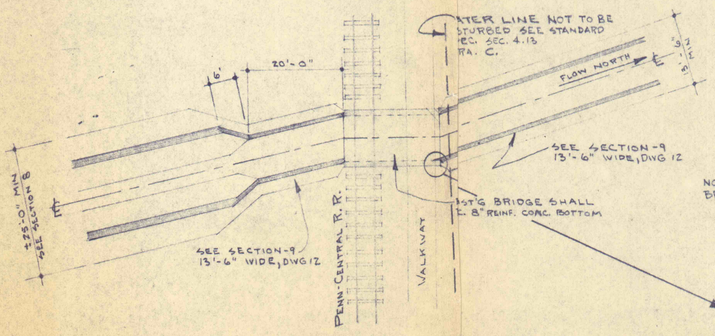
ELEVATION OF DETAIL - E

SCALE - 1/4" = 1'-0"

NOTE: 2 EXP. BOLTS EA. SIDE FASTEN & MASTIC AT HEADWL. & CONC. CHANNEL. JT. FILLER SEE SECTION 17.12 OF STANDARD SPEC.

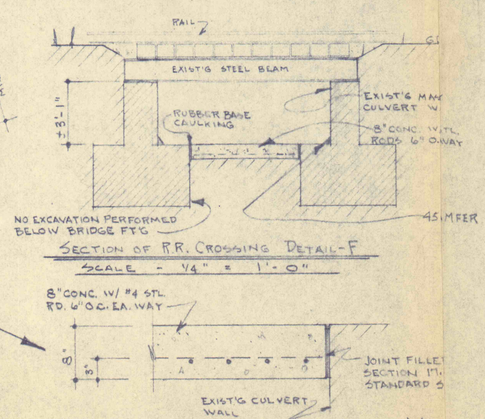
SECTION DETAIL-E (BOTH ENDS)

SCALE - 1/4" = 1'-0"



DETAIL OF PENN CENTRAL R.R. BRIDGE CROSSING IN VILLAGE OF EXCELSIOR - (F)

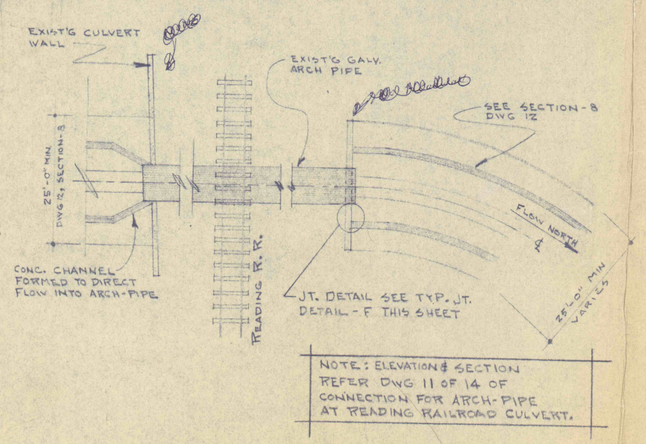
SCALE - 1/16" = 1'-0"



SECTION OF R.R. CROSSING DETAIL-F

SCALE - 1/4" = 1'-0"

TYP. JT. DETAIL OF CHANNEL W/ EXIST'G CULVERT WALL



NOTE: ELEVATION & SECTION REFER DWG 11 OF 14 OF CONNECTION FOR ARCH-PIPE AT READING RAILROAD CULVERT.

DETAIL OF EXIST'G GALV. ARCH-PIPE AT READING R.R. - (G)

SCALE - 1/16" = 1'-0"

NO.	DATE	REVISION	APPR.

SUBMITTED

PROFESSIONAL

APPROVED

CHIEF-DIVISION OF MINE RECLAMATION

APPROVED

DIRECTOR - BUREAU OF DESIGN

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
OFFICE OF RESOURCES MANAGEMENT

PROJECT NO. SL 113-2

MINE DRAINAGE POLLUTION ABATEMENT
QUICK STARTS E, F and G
SHAMOKIN CREEK WATERSHED

JOHN S. LUCKENS ASSOC.

P. O. Box 190 Shamokin, Penna.

SECTIONS & DETAILS

DRAWN BY	DATE	DRAWING NO.
	January 2, 1974	13 of 14
CHECKED BY	SCALE	
	As Shown	