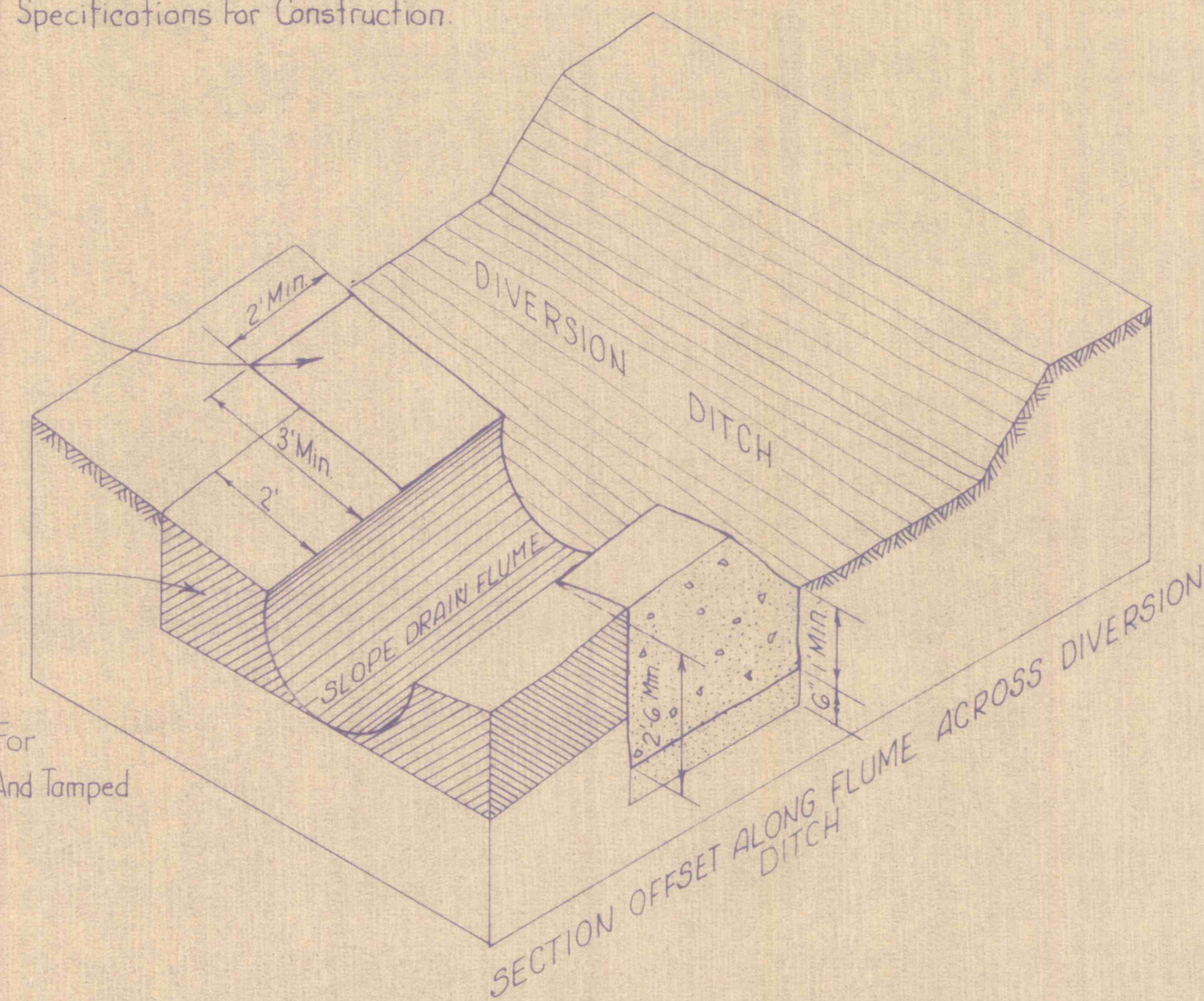


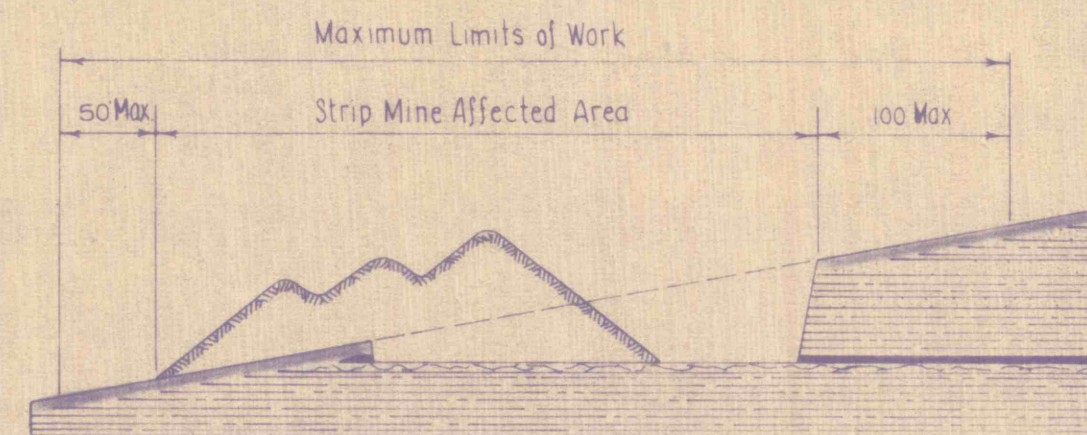
ISOMETRIC DRAWING SHOWING TYPICAL DRAINAGE DETAILS

Flume Headwall Interceptor Shall Be Class B Concrete As Indicated In The Applicable Items Of Section 17 Standard Specifications For Construction.

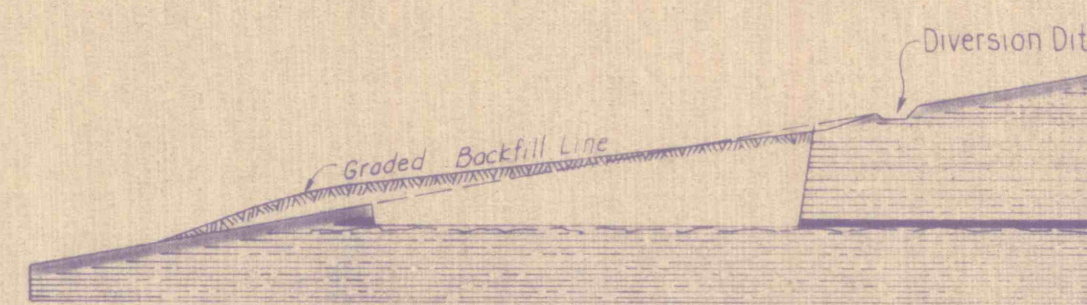


FLUME HEADWALL INTERCEPTOR DETAILS

NO SCALE

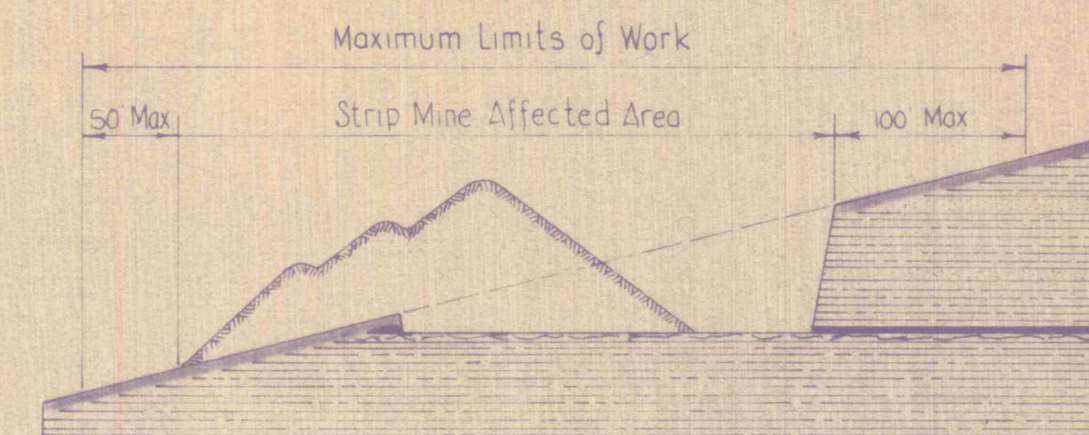


BEFORE BACKFILLING



AFTER BACKFILLING

APPROXIMATE ORIGINAL CONTOUR BACKFILL



BEFORE BACKFILLING



AFTER BACKFILLING

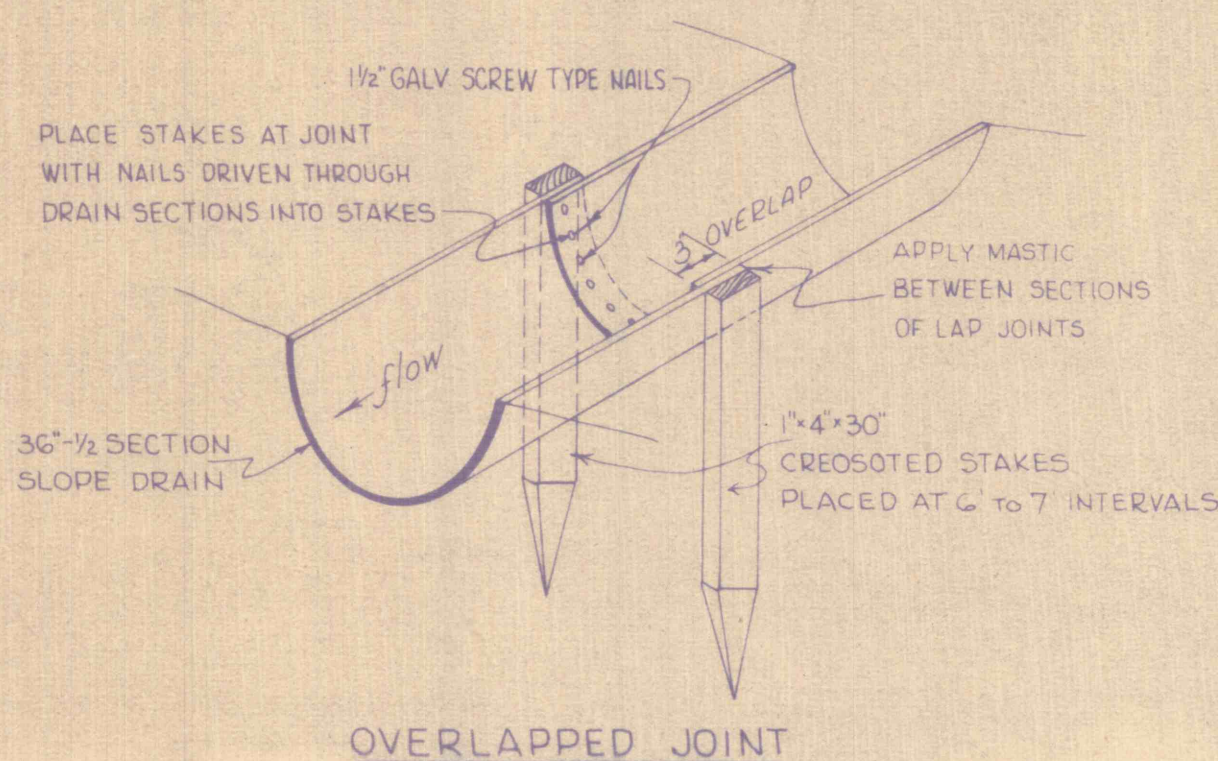
TERRACE TYPE BACKFILL

GENERALIZED CROSS SECTIONS OF PROPOSED BACKFILLING METHODS

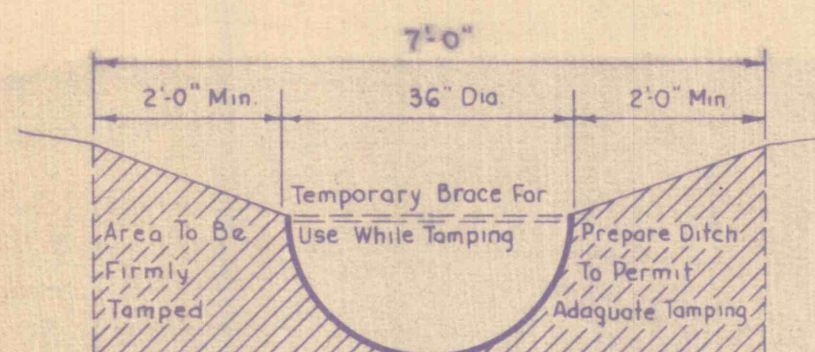
NO SCALE

GENERAL NOTES

1. The Backfilling Shall Be Either Approximate Original Contour Or Terrace Type Restoration As Indicated On The Applicable Strip Area Maps And In The Specifications.
2. The Maximum Limits Of Work With Reference To Backfilling Shall Be 100' Above The Highwall Of The Affected Area And 50' Below The Toe Of Spoil As Indicated On The Above Cross Sections.
3. All Diversion Ditches And Slope Drain Flumes Shall Be Excavated And Installed As Indicated On The Strip Area Maps And In Accordance With The Specifications. The Isometric Drawing And The Flume Headwall Interceptor Details To The Left Indicate A Typical Intersection Of A Diversion Ditch And Flume.

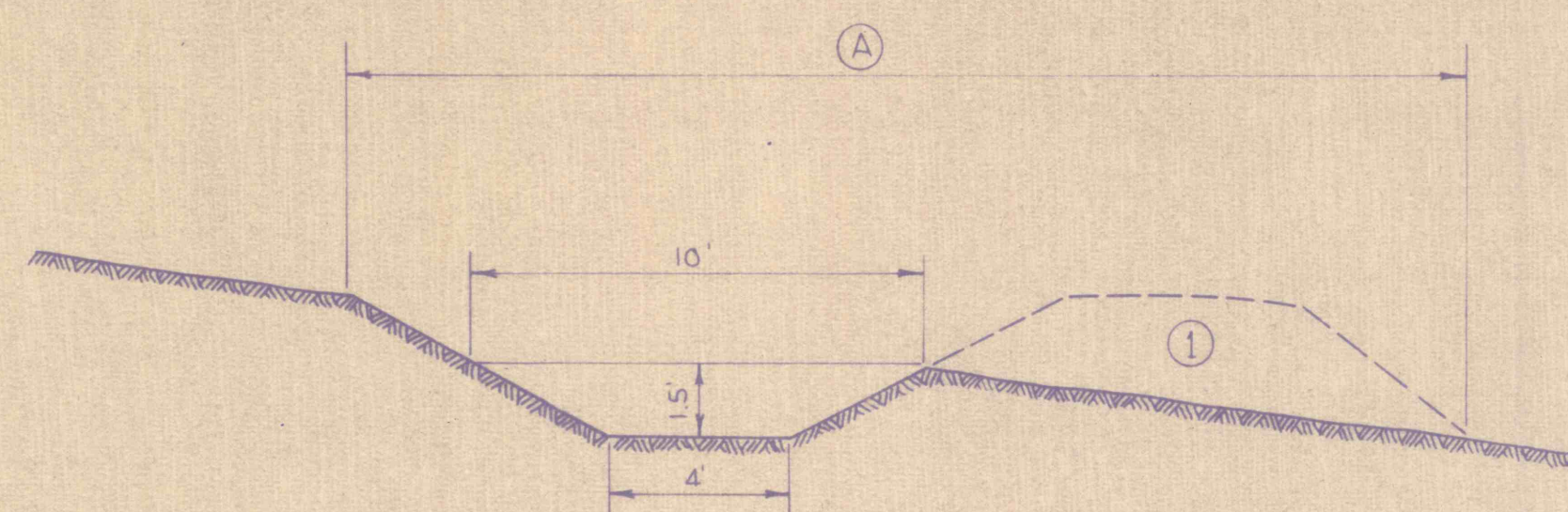


OVERLAPPED JOINT

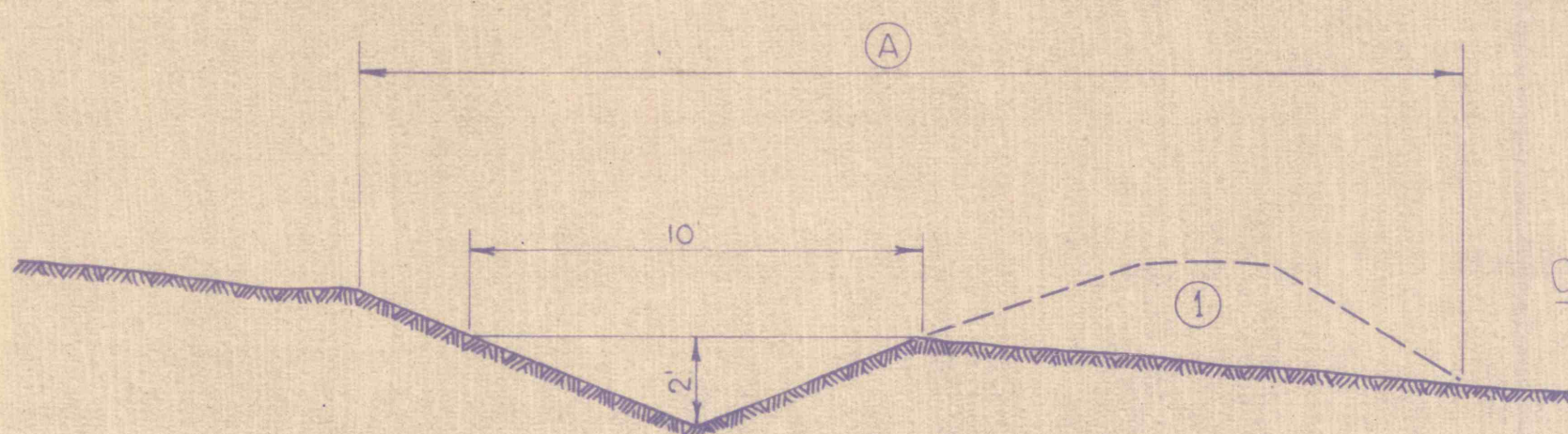


SECTION OF SLOPE DRAIN

SLOPE DRAIN INSTALLATION DETAILS



TRAPEZOIDAL DITCH



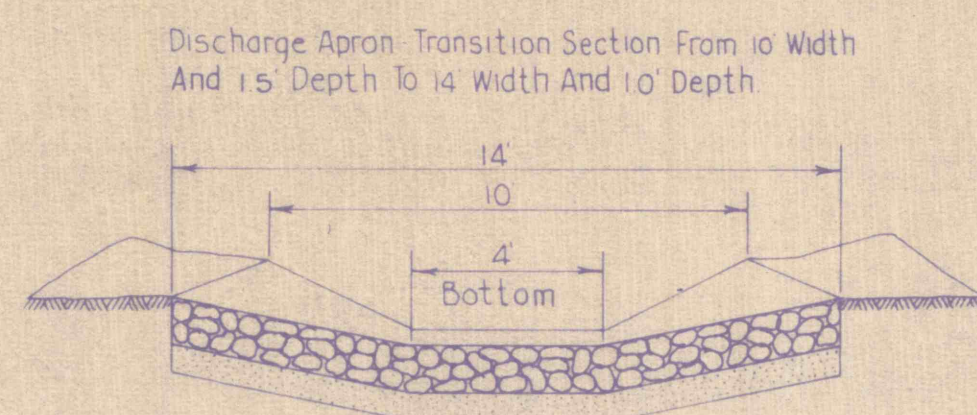
TRIANGULAR DITCH

TYPICAL SECTIONS FOR DIVERSION DITCHES

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

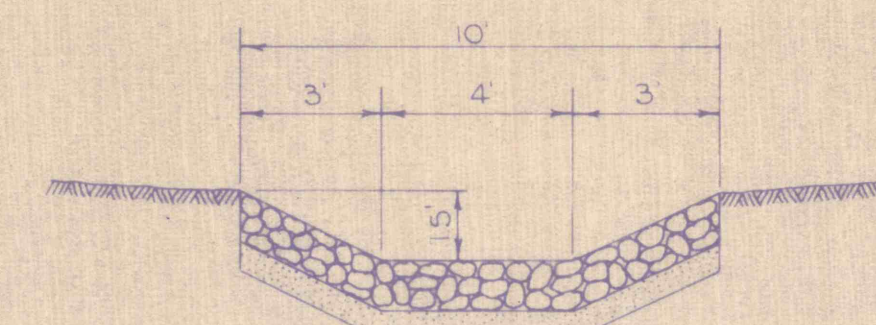
General Notes: Diversion Ditches

- All diversion ditches shall be either trapezoidal or triangular with minimum dimensions as indicated.
- All diversion ditches shall have a minimum cross sectional area of 10 sq ft.
- All excavated material from diversion ditch ① shall be leveled on low side of ditch or hauled away.
- All areas affected in the construction of the diversion ditch shall receive soil treatment and seeding as specified. The soil treatment and seeding shall include both the area of the ditch and excavated material (width A) when placed adjacent to the ditch, including the area affected by machinery.

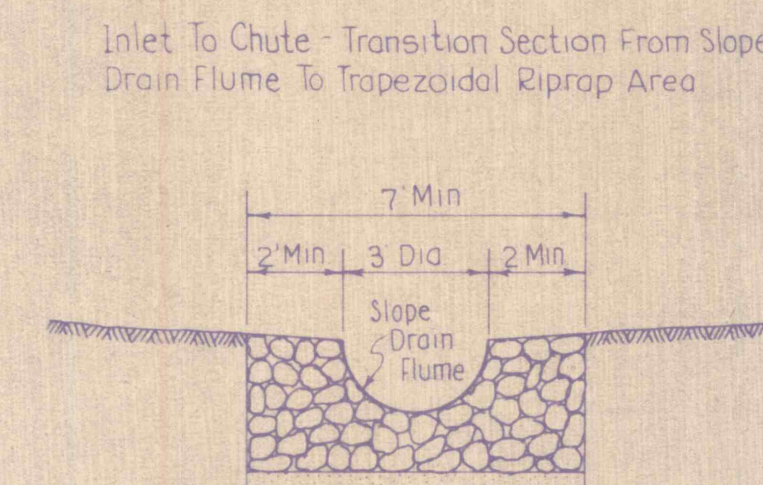


A-A' DISCHARGE APRON SECTION FROM

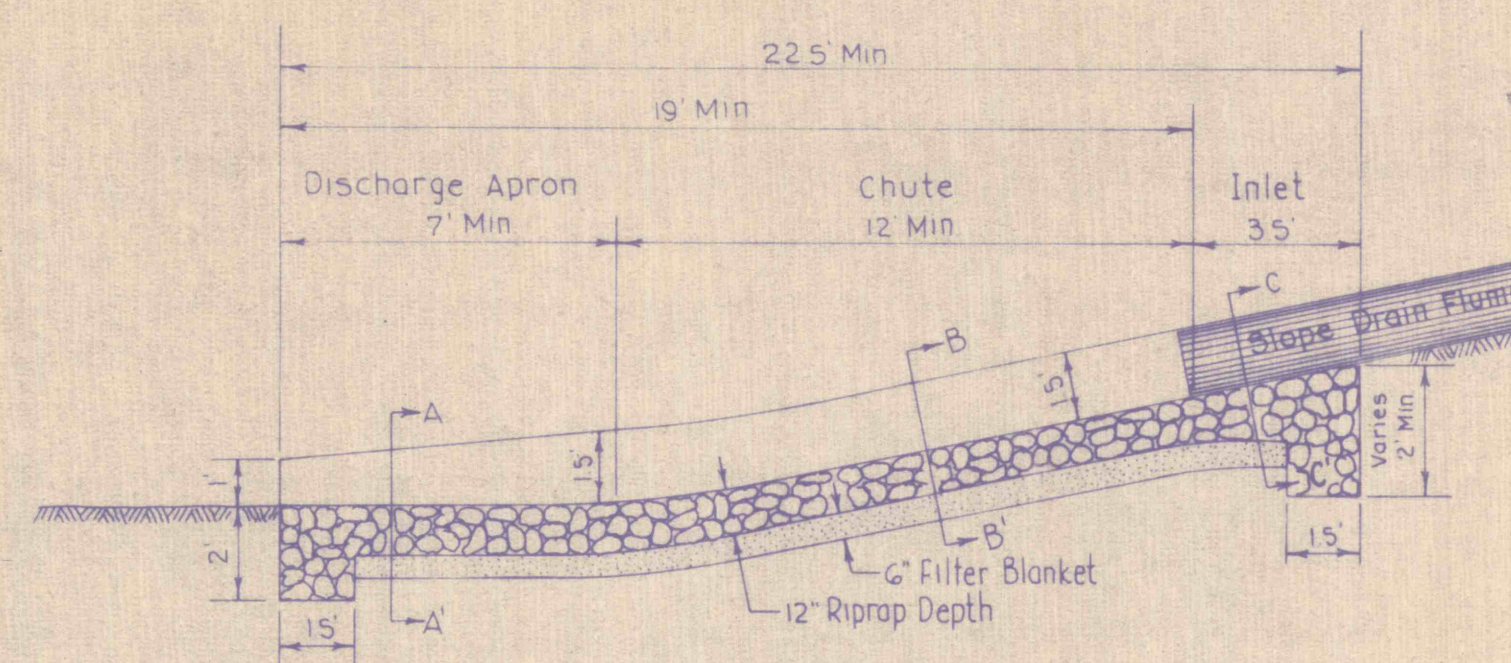
CHUTE SECTIONS & SURFACE WATER DIVERSION DITCHES



B-B' CHUTE SECTION



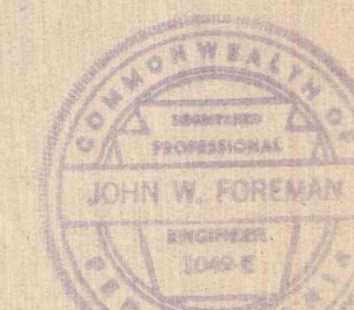
C-C' INLET SECTION



RIPRAP PROFILE

DETAILS OF DUMPED ROCK RIPRAP DISCHARGE

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



John W. Foreman

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES

STRIP MINE RECLAMATION
BACKFILL & DRAINAGE DETAILS

SCALE AS SHOWN	GWIN, DOBSON & FOREMAN, INC. CONSULTING ENGINEERS ALTOONA, PENNSYLVANIA	SHEET NO. Bs
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