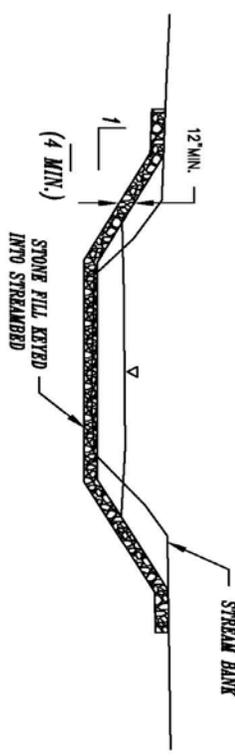


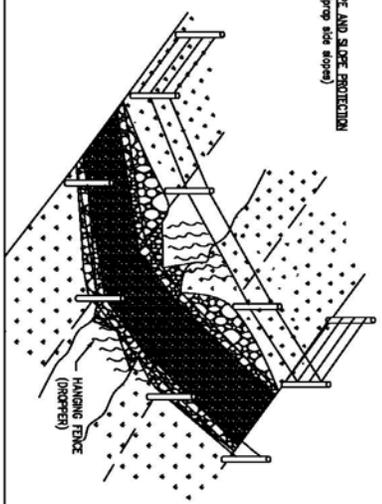
SECTION A-A



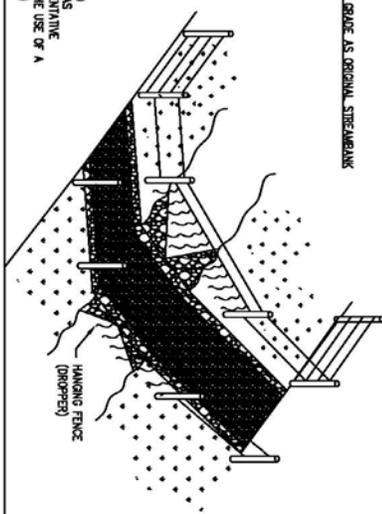
STREAMBANK CUT-SLOPE AND SLOPE PROTECTION
 (shown with steep side slope)

CROSSING AT SAME GRADE AS ORIGINAL STREAMBANK

ADAPTED FROM PA 032, GENERAL PRACTICE DRAWING NO. 3



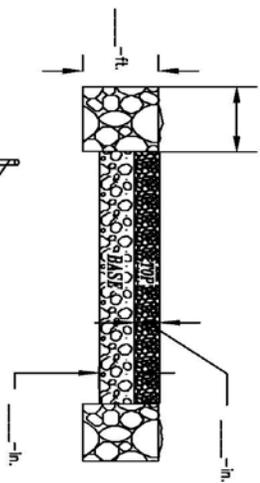
NOT TO SCALE
 ALL FENCING TO BE CONSTRUCTED AS PER SPECIFICATION 382 AND AS APPROVED BY THE NRCS REPRESENTATIVE (LARGE STREAMS MAY REQUIRE THE USE OF A ENERGY DAMPENER FOR HIGH WATER)



RIPRAP GRADATIONS					
Gradation Name	Size - Inches (sq. opening)	D ₁₀₀	D ₈₅	D ₅₀	D ₁₅
R-3	6	5	3	3	2
R-4	12	10	6	6	3
R-5	18	15	9	9	5
R-6	24	20	12	12	7
R-7	30	26	15	15	12
R-8	48	30	24	24	15

- NOTES:
1. ALL SPOIL SHALL BE DEPOSITED OUTSIDE OF THE FLOODWAY AND WETLANDS.
 2. DEPTH OF STONE FILL ABOVE NATURAL STREAMBED SHALL NOT EXCEED 6-INCHES.
 3. ASPHALT STONE TO BE USED AS INTERIOR STONE. DEPTH OF STONE FT.
 4. ASPHALT STONE TO BE USED TO FILL ANY SUBSEQUENT Voids ON INTERIOR STONE SURFACE.
 5. STONE SHALL BE USED AS EXTERIOR FRAME STONE. DEPTH OF STONE FT.
 6. STONE SHALL BE KEYPED INTO THE STREAMBANK AND BED.
 7. INSTALL FENCING FOR LIVESTOCK EXCLUSION.

SECTION B-B



_____ COUNTY, PENNSYLVANIA
MODERATE GRADE STREAM CROSSING DETAILS

1
 Date: 10/06
 Drawn by: RLV
 Checked by: _____
 Approved by: _____

Title: PA-032
 Drawing No: PA-032
 Date: 10/06