

NOTES:

- 1. CLEAR THE FOUNDATION AREA OF TREES, STUMPS, ROOTS, LOOSE ROCK, AND OTHER OBJECTIONABLE MATERIAL.
- 2. EXCAVATE THE CROSS SECTION TO THE LINES AND GRADES OF THE FOUNDATION OF THE LINER AS SHOWN ON THE PLANS. BRING OVER-EXCAVATED AREAS TO GRADE BY INCREASING THE THICKNESS OF THE LINER OR BY BACKFILLING WITH MOIST SOIL COMPACTED TO THE DENSITY OF THE SURROUNDING MATERIAL.
- 4. ROCK RIPRAP LININGS SHOULD BE INSTALLED PER NCDEQ STANDARDS AND SPECIFICATIONS
- 5. PLACE FILTERS, BEDDINGS, AND FOUNDATION DRAINS TO LINE AND GRADE IN THE MANNER SPECIFIED. PLACE FILTER AND BEDDING MATERIALS IMMEDIATELY AFTER SLOPE PREPARATION.
- FOR SYNTHETIC FILTER FABRICS, OVERLAP THE DOWNSTREAM EDGE BY AT LEAST 12 INCHES WITH THE UPSTREAM EDGE WHICH IS BURIED A MINIMUM 12 INCHES IN A TRENCH. SPACE ANCHOR PINS EVERY 3 FEET ALONG THE OVERLAP.
- 7. SPREAD GRANULAR MATERIALS IN A UNIFORM LAYER. WHEN MORE THAN ONE GRADATION IS REQUIRED, SPREAD THE LAYERS SO THERE IS MINIMAL MIXING.
- 8. FILTER MATERIAL SHOULD CONSIST OF A LEAST 3 INCHES OF MATERIAL ON ALL SIDES OF THE DRAIN PIPE. THE DRAIN PIPE CONDUIT SHOULD BE A MINIMUM OF 4 INCHES IN DIAMETER.
- 9. PERFORM ALL CHANNEL CONSTRUCTION TO KEEP EROSION AND WATER POLLUTION TO A MINIMUM. IMMEDIATELY VEGETATE ALL DISTURBED AREAS OR OTHERWISE PROTECT THEM AGAINST SOIL EROSION.
- 10. PROPORTION THE CHANNEL WIDTH AND DEPTH TO MEET THE NEEDS OF DRAINAGE, CARRYING CAPACITY, FOUNDATION LIMITATIONS, AND SPECIFIC SITE CONDITIONS
- 11. FILTER FABRIC MUST BE INSTALLED BETWEEN ROCK AND SOIL
- 12. CHANNEL DEPTH SHALL PROVIDE A MINIMUM 6-IN. FREEBOARD DURING 10-YR STORM EVENT. FOR SITES EXCEEDING 1 ACRE OF LAND DISTURBANCE, MINIMUM DEPTH SHALL BE 18-IN.
- 13. TYPICAL MINIMUM CHANNEL RUNNING SLOPE SHALL BE 2% IN DIRECTION OF FLOW

Channel Lining Thickness	
Material	Minimum Thickness
Rock Riprap	1.5 times maximum stone diameter
Flagstone	4 inches including mortar

