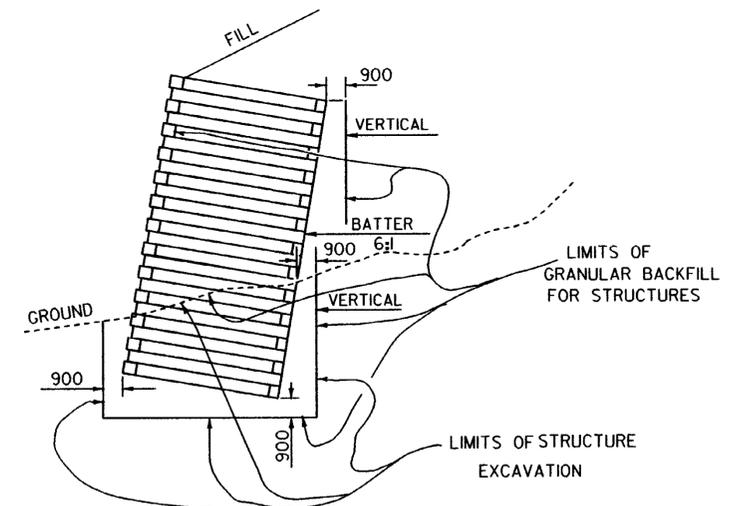


NOTES

1. THE "ALLOWABLE HEIGHT" SHOWN IS A GUIDE FOR RECOMMENDED DESIGN HEIGHT OF WALL AND MAY BE CHANGED IN ACCORDANCE WITH SITE CONDITIONS OR OTHER ACCEPTABLE DESIGN CONSIDERATIONS SUCH AS A SURCHARGE FOR LIVE LOAD.
2. FOR MORE INFORMATION ON TIMBER AND TIMBER TREATMENT REQUIREMENTS REFER TO VAOT STANDARD SPECIFICATIONS FOR CONSTRUCTION FOR BIN-TYPE RETAINING WALLS.
3. CONNECTION PLATES, WASHERS AND THREADED RODS SHALL BE FABRICATED FROM AASHTO M 183M/M 183 STEEL. BOLTS SHALL BE ASTM F 568M, PROPERTY CLASS 4.6. NUTS SHALL BE ASTM A 563M.
4. ALL STEEL SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AASHTO M 111 OR AASHTO M 232.
5. THREADED RODS SHALL HAVE A MINIMUM OF 100 mm OF THREAD.
6. ALL TIMBER SHALL BE FABRICATED PRIOR TO TREATMENT. ANY FIELD TREATMENT SHALL BE DONE IN ACCORDANCE WITH AWPA M-4 AS DIRECTED BY THE ENGINEER.
7. BOTTOM NUTS SHALL BE TACK WELDED TO RODS AND PLATES.
8. ALL NUTS SHALL BE HEAVY HEX TYPE. AFTER ACCEPTANCE BY THE ENGINEER, THE TOP NUTS SHALL BE TACK WELDED IN PLACE.
9. TACK WELDS SHALL BE CLEANED AND PAINTED WITH TWO COATS OF AN APPROVED SEALANT.
10. ALL STRINGERS SHALL HAVE A MINIMUM DESIGN VALUE FOR EXTREME FIBER IN BENDING ( $F_b$ ) FOR SINGLE MEMBER USE AND 19% MOISTURE CONTENT OF 5.5 MPa.
11. ALL SPACERS SHALL HAVE A MINIMUM DESIGN VALUE FOR TENSION PARALLEL TO GRAIN ( $F_t$ ) FOR 19% MOISTURE CONTENT OF 1.8 MPa.
12. TIMBERS SHALL BE FULL SAWN WITHIN 3 mm OF VERTICAL NOMINAL DIMENSIONS SHOWN ON SHEET 2 OF 3.



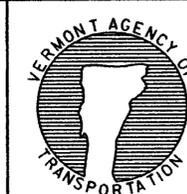
TYPICAL EARTHWORK DETAILS

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS (mm) EXCEPT WHERE NOTED.

REVISIONS AND CORRECTIONS  
JULY 10, 1997 - ORIGINAL APPROVAL DATE

APPROVED  
*[Signature]*  
DIRECTOR OF PROJECT DEVELOPMENT  
*[Signature]*  
STRUCTURES DESIGN ENGINEER

1.8-m TIMBER BINWALLS



**Metric**  
STANDARD  
H-2AM  
SHEET 1 OF 3