

# NOTES AND SEEDING FORMULA

## SLOPES & LEDGE

- IN AREAS WHERE EXCAVATION IS TO TAKE PLACE IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO KEEP DAMAGE OF EXISTING PAVEMENT TO A MINIMUM ON THE TRAVELED LANES. A QUANTITY OF COLD PLANING-BITUMINOUS PAVEMENT, BITUMINOUS CONCRETE PAVEMENT AND TRAFFIC MARKINGS HAVE BEEN ADDED TO THE CONTRACT FOR SHOULDER AND/OR LANE REPAIR.
- ROCK SCALINGS & OTHER EXCAVATION FROM THIS PROJECT SHALL BE USED IN THE FOLLOWING MANNER:
  - ROCK SCALINGS SHALL BE USED AS ROCK / STONE FILL ON THIS PROJECT. SEE GUARDRAIL ITEM DETAIL SUMMARY SHEETS AND EARTHWORK AND DRAINAGE SUMMARY SHEETS FOR LOCATIONS AND APPROXIMATE QUANTITIES. ALL SOLID ROCK EXCAVATION WITH CROSS SECTIONS SHALL BE PAID AS IN PLACE MEASUREMENT ALL UNCLASSIFIED EXCAVATION, TYPE II SHALL BE PAID FOR AS TRUCK MEASUREMENT (FACTOR DIVIDED BY 1.35). SEE SPECIFICATION BOOK, SUBSECTION 203.13 (K).
  - IF EXCAVATED MATERIAL IS TO BE USED TO REGRADE DESIGNATED AREAS AND/OR TO FLATTEN SLOPES AND ELIMINATE GUARDRAIL, AS DIRECTED BY THE ENGINEER, THE FOLLOWING PROCEDURE WILL BE FOLLOWED:
    - AT THE DECISION OF THE ENGINEER TOPSOIL MAY BE STRIPPED FROM AREAS THAT ARE TO HAVE SLOPES FLATTENED OR FILLED. EXCAVATION AND PLACEMENT OF THIS MATERIAL WILL BE PAID FOR UNDER COMMON EXCAVATION.
    - THE STATE WILL PAY, AT CONTRACT UNIT PRICES, ANY WORK PERFORMED ON DRAINAGE STRUCTURES WHICH MUST BE EXTENDED OR RAISED.
    - AREA WILL BE SEEDED PER FORMULA SHOWN AND PAID UNDER APPROPRIATE SEEDING ITEMS.
    - EXISTING GUARDRAIL WILL BE REMOVED, REMOVAL TO BE PAID AS REMOVAL OF EXISTING GUARDRAIL. GUARDRAIL WILL NOT BE REMOVED UNTIL AREA IS COMPLETELY FILLED.
 

NOTE: WHEN THE FLATTENING OF SLOPES IN ONE AREA HAS BEEN STARTED IT SHALL BE COMPLETED BEFORE ANOTHER AREA IS STARTED.

 THE RESIDENT ENGINEER WILL DESIGNATE SLOPE AREAS TO BE FLATTENED. TO AVOID POSSIBLE ROW LIMITATIONS SLOPE FLATTENING FOR ELIMINATION OF GUARDRAIL WILL TAKE PLACE @ RESIDENT ENGINEER'S DISCRETION. THE EXACT STATIONS AND QUANTITIES WILL BE DETERMINED IN THE FIELD. IT IS PROBABLE THAT THERE WILL NOT BE ENOUGH EXCAVATED MATERIAL AVAILABLE TO FLATTEN THE SLOPES IN GENERAL AND IN ALL THE AREAS NOTED. THE ITEM OF EARTH BORROW HAS BEEN ADDED FOR THIS PURPOSE.
    - THE RESIDENT ENGINEER MAY DETERMINE THAT OTHER THAN NOTED LEDGE CUTS MAY NEED SCALING. THE ADDITIONAL DESIGNATED AREAS WILL BECOME PART OF THIS CONTRACT.
- ALL EXCESS ROCK EXCAVATION ON THIS PROJECT THAT WILL NOT BE USED TO FLATTEN SLOPES OR OTHERWISE BE INCORPORATED INTO PROJECT FEATURES SHALL REMAIN THE PROPERTY OF THE STATE OF VERMONT. THE CONTRACTOR SHALL LOAD THE EXCESS ROCK ON SUITABLE TRANSPORT AND DELIVER IT TO THE AGENCY'S MAINTENANCE FACILITY LOCATED IN ROYALTON OFF VT RT 107 APPROX. 1.1 MILES FROM I-89 EXIT 3.

## FENCE

- IF ADDITIONAL AREAS OF DOWN OR DAMAGED FENCE ARE ENCOUNTERED, THEY SHALL BE REPLACED UNDER THIS CONTRACT AND PAID @ CONTRACT UNIT PRICES.
- IN AREAS WHERE FENCE IS TO BE CLEARED, AN AREA APPROXIMATELY 4' WIDE SHALL BE CLEARED ON THE STATE'S SIDE OF THE RIGHT OF WAY LINES. THE COST OF THIS CLEARING SHALL BE PAID UNDER THE ITEM CLEARING & GRUBBING (MOD.).
- NEW R.O.W. FENCE IS TO BE PLACED 6'' INSIDE R.O.W. LINE OR AS DIRECTED BY ENGINEER. WHEN FENCE IS NOT PLACED 6'' INSIDE R.O.W. VAOT ROW SIGNS SHALL BE PLACED ALONG THE R.O.W. LINE AT INTERVALS OF APPROXIMATELY 100' - 150' APART. AN ESTIMATED QUANTITY OF TYPE "A" SIGNS AND POSTS HAVE BEEN ADDED FOR THIS PURPOSE & 2 SIGNS PLACED BACK TO BACK PER POST.

## GENERAL

- IF A MINOR PROBLEM NOT CAUSED BY THE CONTRACTORS NEGLIGENCE WITH DRAINAGE, FENCE OR OTHER ITEMS IS DISCOVERED BY THE ENGINEER, DISTRICT TRANSPORTATION ADMINISTRATOR OR THE CONTRACTOR DURING CONSTRUCTION, WHICH IS NOT NOTED IN THE PLANS, THE PROBLEM MAY BE REQUIRED TO BE CORRECTED UNDER THIS CONTRACT AS DIRECTED BY THE ENGINEER.
- ALL STEEL BEAM GUARDRAIL WILL HAVE STEEL POSTS EXCEPT WHERE INDICATED ON THE PLANS.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REMOVE AND RESET MILE MARKER POSTS AND DELINEATOR POSTS WHEN WORK MAY CAUSE DAMAGE TO THEM. ANY SUCH WORK WILL BE CONSIDERED SUBSIDIARY TO OTHER ITEMS AND NOT PAID FOR DIRECTLY.
- CLEARING AND GRUBBING
  - CLEAR ZONE - 30' FROM EDGE OF TRAVEL WAY
  - TREES & BRUSH WILL BE REMOVED AT BASE, FACE AND 20' FROM TOP OF LEDGE CUTS.
- ESTIMATED DELINEATOR BUTTON (COLOR) TOTALS FOR INFORMATION ONLY.
- REMOVAL OF GUARDRAIL WILL INCLUDE REMOVAL OF TREATED TIMBER AND BIT. CONC. CURB WHERE APPLICABLE.
- ALL TREATED TIMBER CURB SHALL BE BACKED UP WITH ITEM 402.II, AGGRREGATE SHOULDERS.

## DRAINAGE

- WHEN CONCRETE PIPE IS RELAYED OR EXTENDED, THE FINAL THREE SECTIONS SHALL BE RESTRAINED WITH CONNECTING DEVICES AS DESCRIBED IN SUBSECTION 601.07 OF THE VERMONT STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- WHEN IT IS NOTED ON THE PLANS THAT 2-3-4 SECTIONS OF PIPE ARE TO BE RELAYED THIS IS ONLY AN ESTIMATE. WHEN PIPE IS EXCAVATED, THE RESIDENT ENGINEER WILL DETERMINE HOW MUCH MUST BE RELAYED.
- AN ESTIMATED QUANTITY OF PIPE HAS BEEN ADDED TO THE PLANS SO THAT DAMAGED PIPE MAY BE REPLACED INSTEAD OF RELAYED AS PER THE ENGINEER.
- ANY PIPE WHICH IS REMOVED AND NOT RELAYED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE STATE'S RIGHT-OF-WAY.
- TRENCH EARTH AND STONE FILL QUANTITIES SHOWN ON THESE PLANS ARE ESTIMATES ONLY.
- A QUANTITY OF GRANULAR BACKFILL FOR STRUCTURES HAS BEEN ADDED TO THE PROJECT FOR POSSIBLE USE IN RELAYING OR REPLACING PIPES.
- IF END SECTIONS ARE TO BE USED ON R.C.P. PIPES, METAL END SECTIONS OF A LARGER SIZE SHALL BE USED AND PAID AS METAL END SECTIONS. A QUANTITY OF VARIOUS SIZED END SECTIONS HAVE BEEN ESTIMATED FOR USE BY THE RESIDENT ENGINEER. AN ESTIMATED QUANTITY OF CAST IRON GRATES, TYPE A AND TYPE B HAVE BEEN ADDED TO THE CONTRACT TO BE USED AT THE DISCRETION OF THE ENGINEER.
- SOME OF THE DRAINAGE WORK WILL REQUIRE THE CONTRACTOR TO REMOVE TREES AND BRUSH. THE COST OF THIS WORK WILL BE PAID UNDER THE ITEM OF CLEARING AND GRUBBING.
- AN ESTIMATED QUANTITY OF CLEANING PIPE CULVERTS IN PLACE HAS BEEN ADDED TO THE PROJECT.
- AN ESTIMATED QUANTITY OF GUARDRAIL ANCHORS, GUARDRAIL POSTS, AND GUARDRAIL PANELS HAS BEEN ADDED TO THE CONTRACT. THESE ITEMS ARE TO BE USED AT THE DISCRETION OF THE RESIDENT ENGINEER TO REPAIR ANY ANCHORS OR GUARDRAIL THAT ARE DAMAGED.
- GEOTEXTILE UNDER STONE FILL SHALL BE PLACED UNDER ALL NEW STONE PADS AND IN THE REPAIR OF ANY EROSION AREAS. THE FABRIC IS TO BE PLACED AFTER THE AREA HAS BEEN LEVELED AND BEFORE STONE FILL IS PLACED. AN ESTIMATED QUANTITY HAS BEEN ADDED TO THE PROJECT.

## SEEDING FORMULA RURAL AREAS

% WT.	LBS./A.	NAME	PUR %	GERM %
37.5	22.5	CREEPING RED FESCUE	98	85
37.5	22.5	TALL FESCUE	95	90
5.0	3.0	RED TOP	95	90
15.0	9.0	BIRDSFOOT TREFOIL	98	85
5.0	3.0	ANNUAL RYEGRASS	95	85
100.0	60.0			

## GENERAL NOTES

SEED MIXTURE: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.

SEED: TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE ENGINEER.

FERTILIZER: FORMULA 10-20-10, TO BE USED WITH SEED, APPLIED AT THE RATE OF 500 LBS./ACRE. (HYDRO SEEDERS MAY USE 19-19-19 FORMULA).

AGRICULTURAL LIMESTONE: TO BE APPLIED AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.

HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.

TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

MARKER POSTS: TO BE PLACED AS INDICATED OR AS DIRECTED BY THE ENGINEER.

SLOPE ROUNDING: ALL CUT SLOPES TO BE ROUNDED IN ACCORDANCE WITH STANDARD SHEET B-5.

PAY LIMITS OF SAND BORROW: WHEN USED IN CONJUNCTION WITH UNDERDRAIN - SEE STANDARD SHEET D - 2.

TACK COAT: EMULSIFIED ASPHALT IS TO BE APPLIED AT THE RATE OF 0.015 GAL/SY BETWEEN SUCCESSIVE COURSES OF PAVEMENT OR AS DIRECTED BY THE ENGINEER.

## NOTES & SEEDING FORMULA

NOTES BY Ross DATE 1/95  
 SQUAD LEADER Nyquist  
 DESIGN FILE NO. /sqda/87a008/da008det.dgn  
 I/PARM FILE da008not.i DATE PLOTTED 12-MAR-1999  
 PROJ. NAME Hartford-Sharon-Royalton  
 PROJ. NO. IM IR 089-(18)  
 SHEET 47 OF 260 SHEETS