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SEEDING FORMULA

RATE: DOUBLE IF HYDROSEEDING

% WT.	LBS./A.	NAME	PUR %	GERM %
38	32	CREEPING RED FESCUE	98	90
29	24	SPARTAN HARD FESCUE	95	85
15	12	AZAY SHEEP'S FESCUE	95	87
15	12	ANNUAL RYE GRASS	95	90
3	--	INERTS	--	--
100.0	80 LB/A			

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.

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

NOTES:

1. ESTIMATED QUANTITIES OF ITEM 203.I5 COMMON EXCAVATION, ITEM 201.3I, THINNING AND TRIMMING FOR SIGNS, ITEM 204.22 TRENCH EXCAVATION OF EARTH EXPLORATORY (N.A.B.I.), ITEM 402.I2 AGGREGATE SHOULDERS, ITEM 402.I3 AGGREGATE SHOULDERS, RAP, ITEM 900.620 SPECIAL PROVISION (STEEL BEAM GUARDRAIL DELINEATOR) AND ITEM 900.620 SPECIAL PROVISION (STEEL BEAM GUARDRAIL OFFSET BLOCK), HAVE BEEN INCLUDED FOR USE AS DIRECTED BY THE ENGINEER.
2. COLD PLANING TO BE COMPLETED ACCORDING TO THE TYPICAL OR AS NOTED OTHERWISE ON THE PLANS. A FULL DEPTH BUTT JOINT SHALL BE CONSTRUCTED AT THE PROJECT BEGINNING/END AND AT ALL RAMP APPROACHES AS DENOTED ON THE PROJECT PLANS OR AS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. ALL BUTT JOINTS SHALL BE SAW CUT INCIDENTAL TO ITEM 210.I0, COLD PLANING, BITUMINOUS PAVEMENT.
3. THE CONTRACTOR SHALL USE CAUTION WHEN COLD PLANING AND PAVING OPERATIONS OCCUR ADJACENT TO EXISTING DROP INLETS OR CATCH BASINS. ANY DAMAGE WHICH OCCURS TO THESE DRAINAGE STRUCTURES AS A RESULT OF THESE OPERATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE STATE OF VERMONT.
4. EMULSIFIED ASPHALT SHALL BE APPLIED ON ALL EXISTING PAVEMENT SURFACES, ON ALL COLD PLANED SURFACES AND BETWEEN ALL COURSES OF PAVEMENT AT A RATE OF 0.025 GAL / SY OR AS DIRECTED BY THE RESIDENT ENGINEER. PAYMENT WILL BE UNDER ITEM 406.65, "EMULSIFIED ASPHALT".

VAOT STANDARDS

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D-10	REINFORCED CONCRETE DROP INLET TOP WITH BITUMINOUS CONCRETE CURB TOP FOR A DROP INLET	06-01-94
D-15	GRANITE SLOPE EDGING PRECAST REINFORCED CONCRETE CATCH BASIN W/ CAST IRON GRATE, PRECAST REINFORCED CONCRETE MANHOLE W/ CAST IRON COVER, CAST IRON GRATE W/ FRAME, TYPE D CAST IRON GRATE W/ FRAME, TYPE E	06-01-94
E-100	CONSTRUCTION APPROACH SIGNS	01-02-04
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E-120	STANDARD SIGN PLACEMENT - EXPRESSWAY & FREEWAY	02-01-00
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E-136B	STATE ROUTE MARKER SIGN DETAILS	05-01-04
E-139	MILEMARKER DETAILS, INTERSTATE	09-20-95
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E-143	REGULATORY SIGN DETAILS	05-01-04
E-150	WARNING SIGN DETAILS	05-01-04
E-151	WARNING SIGN DETAILS	06-08-09
E-164	SQUARE STEEL SIGN POST	02-01-99
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G-1D	STEEL BEAM GUARD RAIL APPROACH END TERMINAL	01-03-00
G-19	GENERIC PLANS FOR GUARDRAIL END TERMINALS	11-15-02

5. SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = +/- 1/4 INCH (TOTAL PAVEMENT THICKNESS EXCLUDING LEVELING).
6. 3'-7" OF BACKING IS REQUIRED BEHIND THE FACE OF GUARDRAIL WITH 6 FOOT POSTS. IF THIS CAN NOT BE OBTAINED THEN 8 FOOT POSTS SHALL BE USED. THESE ITEMS SHALL BE PAID UNDER ITEM 621.76 REPLACE GUARD RAIL POST ASSEMBLY. ADDITIONAL COSTS DUE TO 8 FOOT LENGTHS SHALL BE CONSIDERED INCIDENTAL TO ITEM 621.76, REPLACE GUARDRAIL POST ASSEMBLY.
7. ALL DI'S AND CB'S REHAB., AS SHOWN ON THE PLANS AND PAID FOR UNDER ITEMS 604.412, 604.415, 604.418, REHAB. DI, CB OR MH CLASS I, II, AND III, SHALL BE RAISED OR REHABILITATED SUCH THAT THE NEW GRATE ELEVATION IS LEVEL WITH THE SURROUNDING TERRAIN. TYPE B GRATES SHALL BE USED FOR ALL REHABILITATED DI'S AND CB'S IN PAVEMENT ADJACENT TO BITUMINOUS CURBING.
8. ESTIMATED QUANTITIES OF ITEMS 608.25, ALL PURPOSE EXCAVATOR RENTAL, TYPE I, 608.37, TRUCK RENTAL, AND 608.40, LOADER RENTAL, TYPE I HAVE BEEN INCLUDED FOR THE PROVISION OF CONSTRUCTING GUARDRAIL END SECTIONS WITH EXCAVATED DITCHING MATERIAL. AN ESTIMATED QUANTITY OF 203.30, EARTH BORROW HAS BEEN INCLUDED IN THE CASE THAT THE DITCHING MATERIAL IS NOT SUITABLE TO USE IN THE GUARDRAIL END SECTIONS. 25 CY OF ITEM 203.30, EARTH BORROW HAS BEEN ESTIMATED FOR EACH NEW GUARDRAIL END SECTION. ITEM 653.20, TEMPORARY EROSION MATTING SHALL BE PLACED ON SLOPES GREATER THAN 1:6 CREATED BY THE GUARDRAIL END SECTIONS. THE QUANTITIES INCLUDED REFLECT 25 SY OF ITEM 653.20, TEMPORARY EROSION MATTING FOR EACH NEW GUARDRAIL END SECTION. PRIOR TO THE PLACEMENT OF TEMPORARY EROSION MATTING, THE AREA SHALL BE TOPSOILED AND SEEDED USING ITEM 651.35, TOPSOIL, AND ITEM 651.I5, SEED.
9. BITUMINOUS CONCRETE PAVEMENT WORK WHICH COULD INVOLVE SOME HAND WORK (SUCH AS SIDE ROAD APPROACHES AND AROUND DRAINAGE AND UTILITY STRUCTURES) SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR ITEM 490.30, "SUPERPAVE BITUMINOUS CONCRETE PAVEMENT".
10. AREAS ADJACENT TO THE SHOULDER, WHERE EXISTING GUARDRAIL IS BEING RETAINED, THAT HAVE BUILT UP EXCESS MATERIAL ARE TO BE GRADED IN ORDER TO ALLOW THE SHOULDER TO DRAIN. PAYMENT IS TO BE INCLUDED UNDER ITEM 203.40, SHOULDER BERM REMOVAL.
11. AREAS ADJACENT TO THE SHOULDER WHERE NO GUARDRAIL EXISTS, THAT HAVE BUILT UP EXCESS MATERIAL ARE TO BE GRADED IN ORDER TO ALLOW THE SHOULDER TO DRAIN AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE MADE UNDER ITEM 608.I5 POWER GRADER RENTAL.
12. ALL DELINEATORS WITHIN THE PROJECT AREA ARE TO BE REPLACED. THESE ARE TO BE PAID FOR UNDER ITEM 900.620 SPECIAL PROVISION (DELINEATOR WITH STEEL POST) AND ITEM 676.I2 REMOVAL OF EXISTING DELINEATOR.
13. AN ESTIMATED QUANTITY OF ITEM 619.I7, YIELDING MARKER POSTS HAS BEEN INCLUDED TO DELINEATE CULVERT ENDS AND DROP INLETS LOCATED OUTSIDE OF THE PAVEMENT SURFACE OR AS DIRECTED BY THE RESIDENT ENGINEER.
14. COMPACTION, GRADING, AND CLEAN UP OF ITEM 651.35 TOPSOIL, ITEM 402.I2 AGGREGATE SHOULDERS AND ITEM 402.I3 AGGREGATE SHOULDERS, RAP IS TO BE INCLUDED IN THE CONTRACT UNIT PRICE FOR EACH ITEM.
15. IN AREAS OF RUTTING THE COLD PLANE DEPTH SHOULD BE MEASURED FROM THE HIGH POINTS OF THE ROADWAY SECTION.
16. STEEL BEAM GUARDRAIL WITH STEEL POSTS SHALL BE USED ON THIS PROJECT.
17. WHERE A DRAINAGE PIPE HAS PREVENTED A GUARDRAIL POST FROM BEING DRIVEN AT 6'-3" SPACING, DOUBLE NESTING SHALL BE APPLIED AT THESE LOCATIONS AND SHALL BE PAID FOR UNDER ITEM 621.77, REPLACE GUARDRAIL BEAM UNIT.
18. REMOVAL OF BITUMINOUS GUTTERS SHALL BE PAID UNDER ITEM 608.25, ALL PURPOSE EXCAVATOR RENTAL, TYPE I.
19. THE PAVEMENT WEARING COURSE SHALL BE TYPE IVS ON THE ROADWAY AND BRIDGE SURFACES, ITEM 490.30 AS SHOWN ON THE TYPICALS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE LEVELING COURSE SHALL BE TYPE IVS UNLESS OTHERWISE SHOWN IN THE PLANS OR DIRECTED BY THE ENGINEER. ALL ASPHALT CEMENT USED IN THE BITUMINOUS CONCRETE PAVEMENT SHALL BE AS SPECIFIED IN SECTION 490 OF THE GENERAL SPECIAL PROVISIONS.
20. EXISTING WOOD POSTS AT THE IMPACT HEAD ENDS OF THE MANUFACTURED TERMINAL END SECTIONS ARE TO BE REPLACED AT THE LOCATIONS SHOWN ON THE ITEM DETAIL SHEETS. THIS WORK SHALL BE PAID FOR UNDER ITEM 900.620 SPECIAL PROVISION (REPLACE MANUFACTURED TERMINAL SECTION WOOD POST).
21. EXISTING CABLE ANCHORS OF THE MANUFACTURED TERMINAL SECTIONS ARE TO BE TIGHTENED AT THE LOCATIONS SHOWN ON THE ITEM DETAIL SHEETS. THIS WORK SHALL BE PAID UNDER ITEM 900.620 SPECIAL PROVISION (TIGHTEN MANUFACTURED TERMINAL SECTION ANCHOR CABLE).

COMPOSITE INDEX OF SHEETS AND GENERAL NOTES	PROJECT NAME: HARTFORD-SHARON / SHARON-ROYALTON	
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