



OVERLAY TYPICAL SECTION

HARDWICK
 STA 2+699 TO STA 3+751
 STA 3+784 TO STA 5+326
 STA 5+344 TO STA 7+113
 GREENSBORO
 STA 0+000 TO STA 6+917

NOT TO SCALE

ROADWAY WAS BUILT AS DESIGNED

PROJECT PAVING LIMITS

TOWN	BEGIN STATION	END STATION	LANE TYPICAL (m)	WEARING DEPTH (mm)	BINDER DEPTH (mm)	LEVELING DEPTH (mm)	TOTAL LEVELING(T)	NOTES
VT ROUTE 16								
HARDWICK	2+699	3+000	1.1-3.3-3.3-1.1	35		15	95	LEVEL - OVERLAY
	3+000	3+500	1.0-3.3-3.3-1.0	35		15	155	LEVEL - OVERLAY
	3+500	3+751	1.3-3.3-3.3-1.3	35		15	85	LEVEL - OVERLAY
	3+751	3+784						BRIDGE #2 - DO NOT TREAT
	3+784	4+000	1.3-3.3-3.3-1.3	35		15	72	LEVEL - OVERLAY
	4+000	5+326	1.0-3.3-3.3-1.0	35		15	410	LEVEL - OVERLAY
	5+326	5+344	1.3-3.3-3.3-1.3	25		15	3	COLD PLANE 25, & PAVE - BRIDGE #3
	5+344	7+113	1.0-3.3-3.3-1.0	35		15	548	LEVEL - OVERLAY
GREENSBORO	0+000	6+917	1.0-3.3-3.3-1.0	35		15	2142	LEVEL - OVERLAY

RURAL AREA - SEED MIXTURE

% MASS	kg/ha	NAME	PUR %	GERM %
37.14	26	CREEPING RED FESCUE	98	85
37.14	26	TALL FESCUE	95	90
5.71	4	RED TOP	95	90
14.30	10	BIRDSFOOT TREFLOIL	98	85
5.71	4	ANNUAL RYE GRASS	95	85
100.00	70			

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

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

FERTILIZER:
 FORMULA 10-20-10 TO BE USED WITH SEED, APPLIED AT THE RATE
 OF 560 kg/ha. (HYDRO SEEDERS MAY USE 19-19-19 FORMULA)

AGRICULTURAL LIMESTONE:
 TO BE APPLIED AT THE RATE OF 4500 kg/ha OR AS DIRECTED
 BY THE RESIDENT ENGINEER.

HAY MULCH:
 TO BE PLACED ON EARTH SLOPES AT THE RATE OF 4500 kg/ha
 OR AS DIRECTED BY THE RESIDENT ENGINEER.

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

NOTES:

- THE PAVEMENT WEARING COURSE SHALL BE TYPE IV, THE LEVELING COURSE SHALL BE TYPE IV, ITEM 406.27, AS SHOWN ON THE TYPICALS, UNLESS DIRECTED BY THE RESIDENT ENGINEER. ALL LIQUID ASPHALT USED IN MEDIUM DUTY BITUMINOUS CONCRETE PAVEMENT SHALL BE PG 58-34.
- EMULSIFIED ASPHALT SHALL BE APPLIED ON ALL EXISTING PAVEMENT SURFACES, ON COLD PLANED SURFACES AND BETWEEN ALL COURSES OF PAVEMENT AT THE RATE OF 0.12 L/m² OR AS DIRECTED BY THE RESIDENT ENGINEER.
- BITUMINOUS CONCRETE PAVEMENT TOLERANCE = 5 mm +/- (TOTAL THICKNESS EXCLUDING LEVEL COURSE).
- EXISTING SHOULDER MATERIAL DEEMED UNSUITABLE BY THE RESIDENT ENGINEER SHALL BE EXCAVATED TO A DEPTH OF 75 mm +/- OR AS DIRECTED BY THE ENGINEER. EXCAVATED MATERIAL SHALL BE SPREAD ON THE ADJACENT SLOPES OR REMOVED FROM THE PROJECT, AS DIRECTED BY THE RESIDENT ENGINEER.

THIS WORK WILL BE PAID FOR USING THE APPROPRIATE RENTAL ITEMS. THE METHOD OF REMOVAL AND THE USE OF RENTAL ITEMS SHALL BE APPROVED BY THE ENGINEER PRIOR TO ANY WORK BEING DONE.

MATERIAL REMOVED SHALL BE REPLACED WITH SUBBASE OF CRUSHED GRAVEL (FINE GRADED), OR AGGREGATE SHOULDERS (MOD.).
- COLD PLANING SHALL BE COMPLETED ACCORDING TO TYPICAL OR AS DENOTED OTHERWISE ON THE PLANS. A FULL-DEPTH BUTT JOINT SHALL BE CONSTRUCTED AT THE PROJECT BEGIN/END AND AT ALL SIDE ROAD APPROACHES AS SHOWN ON THE PROJECT PLANS OR AS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER.
- ALL DRIVES, TOWN HIGHWAYS AND MAILBOX TURNOUTS SHALL RECEIVE A 1m PAVED APRON UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. PAVER SHALL FEATHER APRON OVER EXISTING SURFACE.
- ONE METER OF BACKING IS REQUIRED BEHIND THE FACE OF GUARDRAIL WITH 1.8m POSTS, IF THIS CAN NOT BE OBTAINED, 2.4m POSTS SHALL BE USED.
- MARKER POSTS SHALL BE PLACED AS INDICATED OR AS DIRECTED BY THE RESIDENT ENGINEER. ALL MARKER POSTS WILL BE USED TO MARK INLET AND OUTLET OF CROSS PIPES.
- ESTIMATED QUANTITIES OF ITEM 608.25, EXCAVATOR RENTAL AND 608.37 TRUCK RENTAL HAVE BEEN INCLUDED FOR THE PROVISION OF CONSTRUCTING GUARDRAIL FLARES WITH EXCAVATED DITCHING MATERIAL. THE GUARDRAIL FLARES SHALL BE CAPPED WITH AN ESTIMATED 75 mm DEPTH OF AGGREGATE SHOULDER MATERIAL UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. THE QUANTITIES INCLUDED REFLECT 5 TONS OF AGGREGATE SHOULDER MATERIAL FOR EACH GUARDRAIL TERMINAL. AN ESTIMATED QUANTITY OF EARTH BORROW HAS BEEN INCLUDED TO PROVIDE FOR ADDITIONAL MATERIAL IF NEEDED, FOR FLARE CONSTRUCTION.
- AGGREGATE SHOULDERS AND AGGREGATE SHOULDERS (MOD) SHALL BE USED TO BACK UP THE EDGE OF PAVEMENT.
- ALL EDGES OF PAVEMENT AND TREATED TIMBER CURB SHALL BE BACKED UP FULL HEIGHT WITH COLD PLANE GRINDINGS AS DIRECTED BY THE RESIDENT ENGINEER AND WILL BE PAID FOR UNDER ITEM 402.12 AGGREGATE SHOULDERS (MOD.). ADDITIONAL MATERIAL REQUIRED AFTER THE COLD PLANE GRINDINGS ARE USED WILL BE PAID FOR UNDER ITEM 402.12, AGGREGATE SHOULDERS.
- ALL BITUMINOUS CONCRETE PAVEMENT WORK, WHICH COULD INVOLVE SOME HAND-WORK (SUCH AS DRIVE AND SIDE ROAD APPROACHES AND AROUND DRAINAGE/UTILITY STRUCTURES), SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR ITEM 406.27 MEDIUM DUTY BITUMINOUS CONCRETE PAVEMENT PG 58-34.
- GRASS GROWING ADJACENT TO PAVEMENT, OR THROUGH CRACKS IN THE PAVEMENT, WHICH MAY HAMPER THE PLACEMENT OF NEW BITUMINOUS CONCRETE, SHALL BE REMOVED BY THE CONTRACTOR, AS DIRECTED BY THE ENGINEER. PAYMENT FOR THIS WORK WILL NOT BE MADE DIRECTLY, BUT WILL BE CONSIDERED SUBSIDIARY TO ITEM 406.27 MEDIUM DUTY BITUMINOUS CONCRETE PAVEMENT PG 58-34.
- COMPACTION, GRADING, AND CLEAN UP OF ITEM 301.28, SUBBASE OF CRUSHED GRAVEL, ITEM 402.12, AGGREGATE SHOULDER MATERIAL, AND ITEM 651.35, TOPSOIL, IS TO BE INCLUDED IN THE CONTRACT UNIT PRICE OF EACH ITEM.
- COLD-PLANE GRINDINGS TO REMAIN THE PROPERTY OF THE STATE OF VERMONT, AND TO BE USED ON THE PROJECT FOR SHOULDER BACKING, PAYABLE UNDER ITEM 402.12 AGGREGATE SHOULDER MATERIAL (MOD).
- ITEMS 604.40 & 604.412 ARE ESTIMATED QUANTITIES AND SHALL BE PERFORMED AT LOCATIONS INDICATED ON THE LAYOUT SHEETS AND AS DIRECTED BY THE RESIDENT ENGINEER. ALL D.I.'S SHALL BE RAISED OR REHABILITATED SUCH THAT THE NEW GRATE ELEVATION IS LEVEL WITH THE SURROUNDING TERRAIN.
- AREAS ADJACENT TO THE SHOULDER, AND BEYOND WHERE EXISTING GUARD RAIL IS BEING RETAINED THAT HAVE BUILT UP EXCESS MATERIAL ARE TO BE GRADED IN ORDER TO ALLOW THE SHOULDER TO DRAIN. PAYMENT IS UNDER ITEM 203.99, SHOULDER BERM REMOVAL. EXCESS MATERIAL IN NON-GUARD RAIL AREAS WILL BE REMOVED BY USING THE APPROPRIATE RENTAL ITEM.

NOTE: ALL DIMENSIONS IN MILLIMETERS EXCEPT AS INDICATED

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

PROJECT TYPICAL SHEET #1	PROJECT: HARDWICK-GREENSBORO	PROJECT NO.: STP 2112(1)S
	DESIGN FILE NAME: pave/98bl06/pbl06.dgn	
	IPARM FILE NAME: pbl06ty01.i	PLOT DATE: 10-JUL-2006 13:49
	SURVEYED BY: CLD ENGINEERS, INC.	SURVEY DATE: 6/99
	SQUAD LEADER: WRH	DRAWN BY: JPC
		SHEET: 3 OF 43