VO.: WBS ELEMENT : IC.021026, ETC.	SR 1200 MAP #1	1211 1.4 Valhal 271	COUNTY  32 TO SR 1204  ND PAVEMENT MARKINGS  1316  1316  1316  1316  Hancock  EDENT POP. 5,	PHOTO PRIMERY SUPPRINCES NO. PRINCE TO THE P
\$	NOT TO SCALE	PROJECT LENGTH  MAP#1 WBS# 1C.021026 = 3.5 MILES	DIVISION OF HIGHWAYS  2006 STANDARD SPECIFICATIONS  LETTING DATE:  W.B. HOBBS, P.E.  DIVISION PROJECT MANAGER  C.E. SLACHTA  DIVISION PROPOSALS ENGINEER	DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

1C.021026, ETC.	MAP	STATE OF NORTH DIVISION OF H  TYRRELL  #2 SR 1104 FROM SR 1105 TO NC 94 / MA #4 SR 1209 FROM NEW PAVEMENT TO SR OF WORK: WIDENING, RESURFACING AND	IGHWAYS	N.C. 1C.021026, ETC. 2 7  FINATE PROBLEM. RALPHANIS. GRECOUPTION  FINATE TOTAL  FINA
WBS ELEMENT : IC	SR 1200 MAP #3	A L B E M A 1213    1245   1244   209   1215   1214   1209   1215   1209   1214   1209	3 1218 1230 1209 Sound Side 1214 1216 1214 POP_851 POP_851	1220  1221  Newfoundland  1229  1221
SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	1200 Bay 1200 11117 11116 Woodley	1200 6 1205  1205  1113  1110  1110  11110  11111  11110  11111  11111  11111  11111  11111  1111		DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA
\$	NOT TO SCALE	MAP#2 WBS# 1C.089026 = 1.0 MILES MAP#3 WBS# 1C.089027 = 0.7 MILES MAP#4 WBS# 1C.089031 = 3.7 MILES	2006 STANDARD SPECIFICATIONS  W.B. HOBBS, P.E.  DIVISION PROJECT MANAGER  C.E. SLACHTA  DIVISION PROPOSALS ENGINEER	STATE OF NORTH CAROLINA

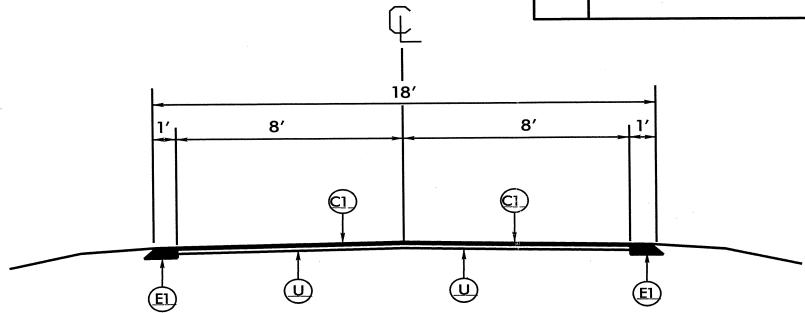
S 56/98/05		STATE OF NORTH DIVISION OF H		PINTS STATE PROMETY REPUBLICE NO. STATE TOTAL MATERIA.  N.C. 1C.021026, ETC. 3 7  STATE PROMIS. SALPRAMO. SECONDARIO
C.021026, ET	MAP # TYPE O	WASHINGTON  5 SR 1331 FROM NC 308 TO SR 1301 /MAP 7 SR 1330 FROM NC 32 TO SR 1301 0F WORK: WIDENING, RESURFACING AND P	# 6 SR 1308 FROM 1303 TO TYRRELL	COUNTY LINE  SR 1308 MAP #6
ELEMENT: 1C.021026, ETC.	SR 1331 MAP #5	1322 Pan 1319 1369 % Skinnersv 1367 1318 1320 1318 1369 % Skinnersv 1367 1318 1369 % Skinnersv 1367 1318 1369 % Skinnersv 1367 1369 % Skinnersv 1367 1369 % Skinnersv 1368 1370 5 4 11	1303- 138	Davenport 308
WBS	1363  1363  1363  NORTHWE TENNSON  1301  Westover  1331  20  1332  10  1330  Northwe Tennson  1330  1331  10  1330  10  1330  10  1330  10  1	1334 Pleasant Grove 1133  1136  1137  Pleasant Grove 1138  1140  1139  ROPER POP. 604	62	1303 Mt. Pleasant Ch.  1308 1306 Mt. Pleasant Ch.  1308 1300 1300 1300 1300 1300 1300 1300
T NO.:		O MAP #7	1110 8	THE CRES
sesses SYSTIMEssess sessessessessessessessessessessess	NOT TO SCALE	PROJECT LENGTH  MAP#5 WBS# 1C.094033 = 3.0 MILES  MAP#6 WBS# 1C.094034 = 2.5 MILES  MAP#7 WBS# 1C.094036 = 1.36 MILES	DIVISION OF HIGHWAYS  2006 STANDARD SPECIFICATIONS  LETTING DATE:  DIVISION PROJECT MANAGER  C.E. SLACHTA  DIVISION PROPOSALS ENGINEER	DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

#### NOTES:

- 1. ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII OR AS DIRECTED BY THE ENGINEER
- 2. EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES
- 3. PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE
- 4. SHOULDERS AND DITCHES ARE TO BE CONSTRUCTED BY OTHERS

PROJECT REFENCE NO.	SHEET NO.
1C.021026, ETC.	4 OF 7

	PAVEMENT SCHEDULE
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ.YD.
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBS. PER SQ.YD.
U	EXISTING PAVEMENT



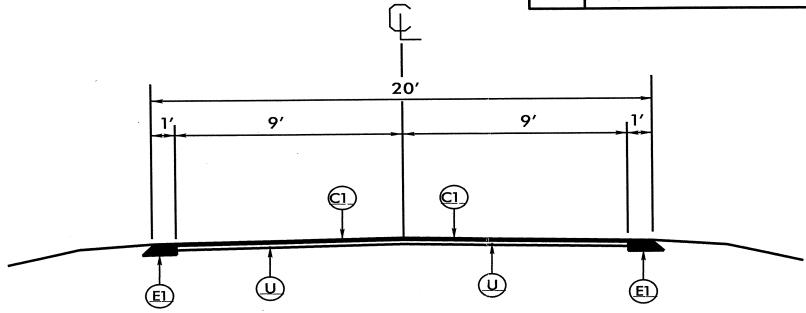
TYPICAL SECTION #1
USE WITH MAPS 2 & 6

#### NOTES:

- 1. ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII OR AS DIRECTED BY THE ENGINEER
- 2. EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES
- 3. PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE
- 4. SHOULDERS AND DITCHES ARE TO BE CONSTRUCTED BY OTHERS

PROJECT REFENCE NO.	SHEET NO.
1C.021026, ETC.	5 OF 7

	PAVEMENT SCHEDULE
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ.YD.
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBS. PER SQ.YD.
U	EXISTING PAVEMENT



### TYPICAL SECTION #2

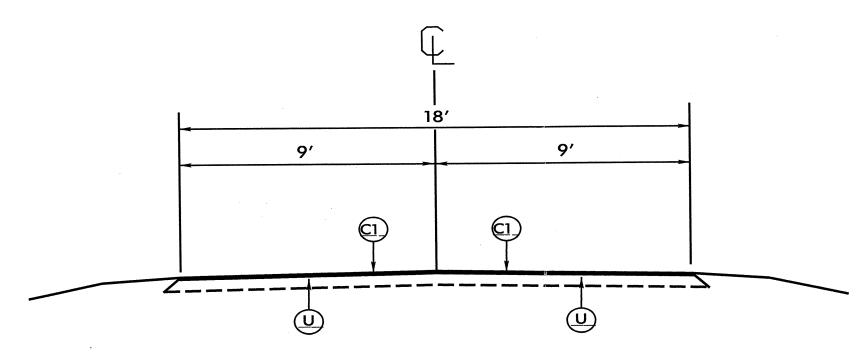
USE WITH MAPS 1, 3, & 5

#### NOTES:

- 1. ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII OR AS DIRECTED BY THE ENGINEER
- 2. EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES
- 3. PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE
- 4. SHOULDERS AND DITCHES ARE TO BE CONSTRUCTED BY OTHERS

PROJECT REFENCE NO.	SHEET NO.		
1C.021026, ETC.	6 OF 7		

	PAVEMENT SCHEDULE
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ.YD.
U	EXISTING PAVEMENT



## TYPICAL SECTION #3

USE WITH MAPS 4 & 7

PROJECT NO.	SHEET NO.	TOTAL NO.
1C.021026, ETC.	. 7	7

### SUMMARY OF QUANTITIES

									0000100000-N	148900000-E	1525000000-E	1560000000-E
PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	TYP	FINAL SURFACE	LENGTH	WIDTH	MOBILIZATION	BASE COURSE,	SURFACE	PG 64-22 PLANT
						TESTING REQUIRED				B25.0B	COURSE, SF9.5A	MIX
NO		NO			NO		MI	FT	LS	TON	TON	TON
1C.021026	Chowan	1	SR 1200	FROM NC 32 TO SR 1204	2	NO	3.5	20	1	1,917	3,773	328
1C.089026	Tyrrell	2	SR 1104	FROM SR 1105 TO NC 94	1	NO	1	18	*	549	971	87
1C.089027	Tyrrell	3	SR 1200	FROM SR 1201 TO WASHINGTON COUNTY LINE	2	NO	0.7	20	*	383	755	66
1C.089031	Tyrrell	4	SR 1209	FROM NEW PAVEMENT TO SR 1221	3	NO	3.7	18	*		3,570	232
1C.094033	Washington	5	SR 1331	FROM NC 308 TO SR 1301	2	NO	3	20	*	1,644	3,234	281
1C.094034	Washington	6	SR 1308	FROM SR1303 TO TYRRELL COUNTY LINE	1	NO	2.5	18	*	1,370	2,429	217
1C.094036	Washington	7	SR 1330	FROM NC 32 TO SR 1301	3	NO	1.36	18	*		1,312	85
<u> </u>				·								
				GRAND TOTAL			15.76		1	5,863	16,044	1,296

### THERMOPLASTIC AND PAINT QUANTITIES

					4589000000-N	48100	00000-E
PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	GENERIC TRAFFIC CONTROL ITEM (TRAFFIC CONTROL)	4" WHITE PAINT	4" YELLOW PAINT
NO		NO	·		LS	LF	LF
1C.021026	Chowan	1	SR 1200	FORM NC 32 TO SR 1204	1	75,320	46,200
1C.089026	Tyrrell	2	SR 1104	FROM SR 1105 TO NC 94	*	21,520	13,200
1C.089027	Tyrrell	3	SR 1200	FROM SR 1201 TO WASHINGTON COUNTY LINE	*	15,064	9,240
1C.089031	Tyrrell	4	SR 1209	FROM NEW PAVEMENT TO SR 1221	*	79,624	48,840
1C.094033	Washington	5	SR 1331	FROM NC 308 TO SR 1301	*	64,560	39,600
1C.094034	Washington	6	SR 1308	FROM SR1303 TO TYRRELL COUNTY LINE	*	53,800	33,000
1C.094036	Washington	7	SR 1330	FROM NC 32 TO SR 1301	*	29,267	17,952
						339,155	208,032
			GRAND T	OTAL	1	547	7,187

### GENERAL NOTES

- (1) THE FOLLOWING OPTIONS MAY BE USED FOR ADVANCE WARNING SIGNS:
  - A. TRUCK MOUNTED SIGNS
    B. TRUCK MOUNTED CHANGEABLE MESSAGE SIGN (CMS)
  - C. GROUND MOUNTED ADVANCE WARNING SIGNS (MUST CIRCLE TO PICK UP SIGNS)
  - D. GROUND MOUNTED CHANGEABLE MESSAGE SIGN (CMS)
    (MUST USE CIRCLE TO PICK UP SIGNS)
- (2) ALL ADVANCE WARNING SIGNS MUST BE 48" X 48" WITH FLUORESCENT ORANGE TYPE VII, VIII OR IX SHEETING. IF SPACE LIMITATIONS ON SHOULDER PROHIBIT A 48" X 48" SIGN, A SMALLER SIGN CAN BE USED WITH APPROVAL FROM ENGINEER.
- (3) SIGNS ON VEHICLES SHOULD BE MOUNTED A MINIMUM OF ONE (1) FOOT FROM THE GROUND AND SHOULD NOT BLOCK THE MOTORIST'S SIGHT OF THE FLASHING ARROW PANEL AND/OR LIGHTBAR.
- (4) GROUND MOUNTED ADVANCED WARNING SIGNS SHOULD BE MOUNTED A MINIMUM OF ONE (1) FOOT FROM THE GROUND TO BOTTOM OF SIGN
- (5) SIGN SPACING SHOULD BE ADJUSTED FOR HORIZONTAL AND VERTICAL CURVES, ETC. TO IMPROVE SIGHT DISTANCES.
- (6) ADDITIONAL VEHICLES SHOULD BE USED IN WORK CARAVAN TO FACILITATE DRYING OF PAVEMENT MARKING MATERIAL (TMIA'S ARE OPTIONAL ON THESE ADDITIONAL VEHICLES). HOWEVER, THE FIRST VEHICLE MOTORISTS SEE IN THE TRAVEL LANE SHALL HAVE A TMIA.

- (7) ADJUST DISTANCE AS NEEDED TO PREVENT MOTORISTS FROM ENTERING SPACE BETWEEN THE APPLICATION AND PROTECTION VEHICLE. DISTANCE CAN BE LENGTHENED TO ACCOMODATE SIGHT DISTANCE NEEDS.
- (8) ROUND UP MILEAGE TO NEXT WHOLE MILE. WORK ZONE SHOULD NOT EXCEED FIVE (5) MILES IN LENGTH.
- (9) RADIO COMMUNICATION BETWEEN VEHICLES IS REQUIRED.
- (10) USE OF A LIGHT BAR ON ALL VEHICLES IS PREFERRED, BUT A ROTATING BEACON MAY BE USED INSTEAD.
- (11) IF WORK IS PERFORMED AT NIGHT, THE WORK AREA MUST BE ILLUMINATED WITH MACHINE AND/OR TOWER LIGHTS AS APPROVED BY THE ENGINEER.
- (12) ALL TRAFFIC CONTROL DEVICES WILL BE CONSIDERED INCIDENTAL TO THE PAY ITEMS FOR PAVEMENT MARKING AND MARKERS.
- (13) INFORMATIONAL SIGNS SHOULD BE ACTIVITY SPECIFIC, i.e.
  "PAINT CREW IN ROAD". SIGNS MAY BE RECTANGULAR OR DIAMOND SHAPE.
  SIGN SIZE SHOULD BE BASED ON THE MOTORIST ABILITY TO RECOGNIZE
  SIGN WHEN TRAVELING FIVE (5) MILES ABOVE POSTED SPEED LIMIT.
- (14) IF A LEAD VEHICLE IS ADDED TO OPERATION, IT SHOULD HAVE THE SAME ADVANCE WARNING SIGNS AS THE APPLICATION VEHICLE SHOWN BELOW.

#### **LEGEND**

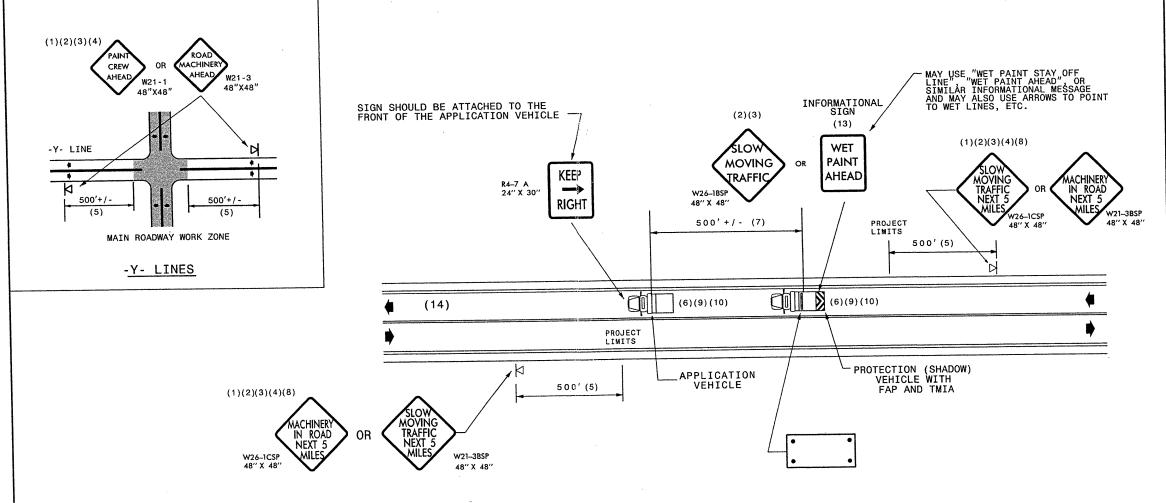
PORTABLE SIGN. SIGNS MUST BE NCHRP-350 AND NCDOT APPROVED.



APPLICATION VEHICLE WITH LIGHT BAR

PROTECTION VEHICLE WITH TRUCK
MOUNTED IMPACT ATTENUATOR (TMIA)
AND LIGHT BAR (SEE ROADWAY
STANDARD NO. 1165.01). TMIA MUST
BE NCHRP-350 TEST LEVEL 3 (60+MPH)
APPROVED.

FLASHING ARROW PANEL,
TYPE "B" (60"X30" MIN.),
"CAUTION MODE"



# MOVING OPERATION CARAVAN

(OPERATIONS TRAVELING 3 MPH OR FASTER)
PLACING PAVEMENT MARKING OR MARKERS
ON TWO-LANE TWO-WAY ROADWAYS

DRAWING NUMBER 6
IMPLEMENTATION DATE: 07/01/97

REVISED: 11/03/04

