

04-AUG-2021 14:31 S:\Contracts\6) Proposed\_Resurfacing\DA00502\_BERTIE (NORTH) HERTFORD SEC\1) Pre-Bid Documents\Design Files\DA00502\_D1-5-13-2021\_tshi.dgn  
stenwick AT DIV01-304734

09/08/99

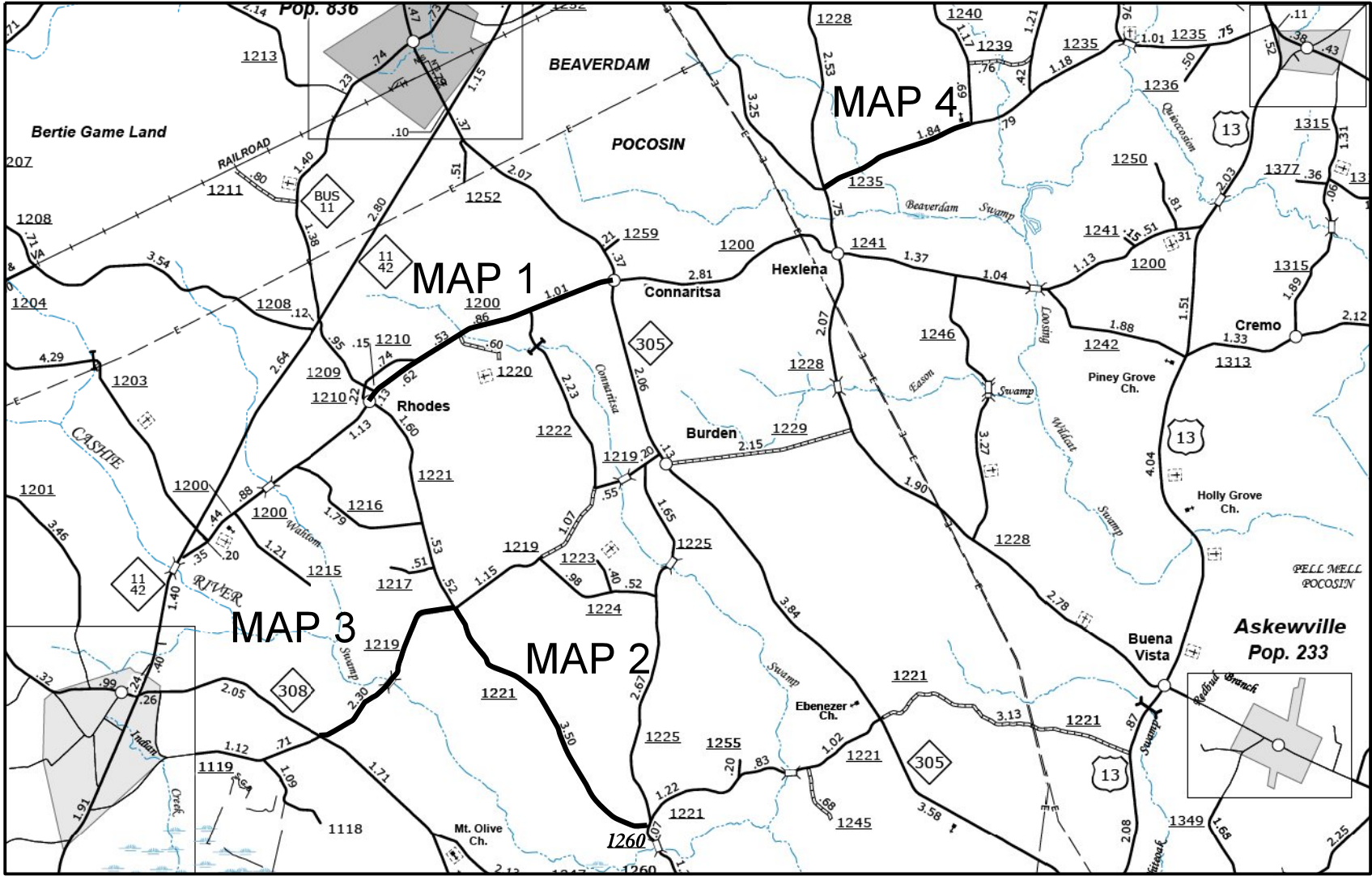
CONTRACT: DA00502 WBS PROJECT: 2022CPT.01.01.20081.1

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

BERTIE COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.
N.C.	2022CPT.01.01.20081.1, ETC	1
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
2022CPT.01.01.20081.1		PE, CONST.

LOCATION: MAP 1 – SR 1200 (CONNARISTA RD.) FROM SR 1221 TO NC 305      TYPE OF WORK: AST (SINGLE/DOUBLE SEAL), MILLING, RESURFACING  
MAP 2 – SR 1221 (CHARLES TAYLOR RD.) FROM SR 1260 TO SR 1219      AND SHOULDER RECONSTRUCTION  
MAP 3 – SR 1219 (FRANCIS MILL RD.) FROM NC 308 TO SR 1221  
MAP 4 – SR 1235 (CENTER GROVE RD.) FROM SR 1228 TO SR 1240



GRAPHIC SCALES

NTS

PROJECT LENGTH

MAP 1 = 3.11 MILES  
MAP 2 = 3.50 MILES  
MAP 3 = 2.26 MILES  
MAP 4 = 1.83 MILES

LENGTH PROJECT 2022CPT.01.01.20081.1 = 10.70 MI.

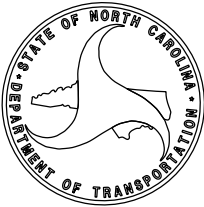
Prepared In the Office of:  
**DIVISION OF HIGHWAYS**  
113 AIRPORT DR., EDENTON NC, 27932

2018 STANDARD SPECIFICATIONS

W. B. HOBBS, PE  
DIVISION PROJECT TEAM LEAD

CHRIS SLACHTA  
DIVISION CONTRACT ENGINEER

S. P. FENWICK, PLS  
DIVISION DESIGN ENGINEER



04-AUG-2021 15:33  
S:\Contracts\6) Proposed\_Resurfacing\DA00502\_BERTIE (NORTH) HERTFORD SEC\I) Pre-Bid Documents\Design Files\DA00502\_D1-5-13-2021\_tsh2.dgn  
stenwick AT DIV01-304734

09/08/99

CONTRACT: DA00502      WBS PROJECT: 2022CPT.01.01.20461.1

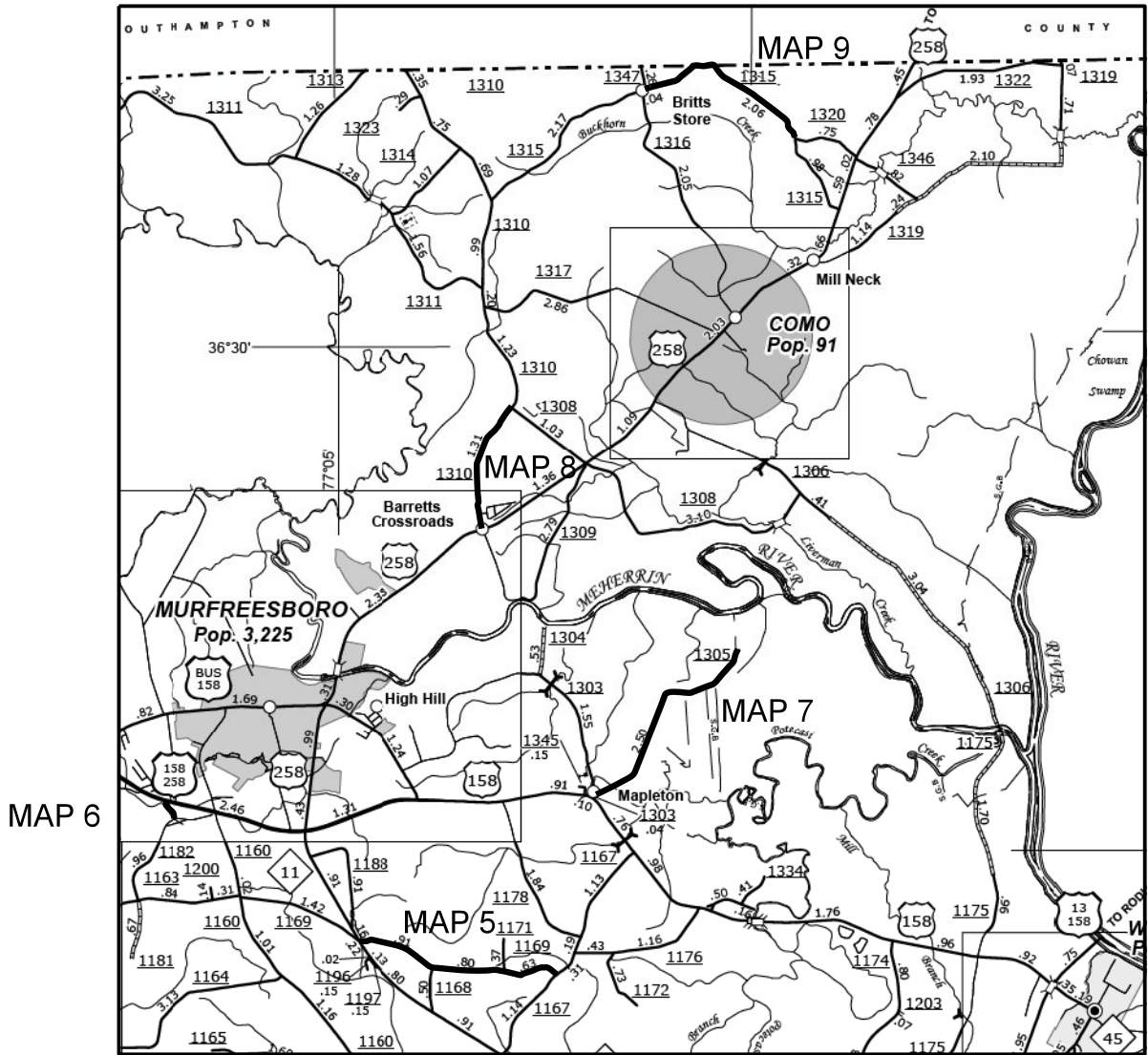
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.
N.C.	2022CPT.01.01.20081.1, ETC	2
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
2022CPT.01.01.20461.1		PE, CONST.

HERTFORD COUNTY

LOCATION: MAP 5 – SR 1169 (EAST WOODROW SCHOOL RD.) FROM NC 11 TO SR 1167  
MAP 6 – SR 1230 (CLOVERS COURT) FROM SR 1182 TO US 158 BYPASS  
MAP 7 – SR 1305 (HAREWOOD RD.) FROM SR 1303 TO DEAD END  
MAP 8 – SR 1310 (STATESVILLE RD.) FROM US 258 TO SR 1308  
MAP 9 – SR 1315 (NEW HOPE CHURCH RD.) FROM SR 1347 TO SR 1320

TYPE OF WORK:  
AST (SINGLE/DOUBLE SEAL), RESURFACING,  
SHOULDER RECONSTRUCTION AND GUARDRAIL  
REPLACEMENT



GRAPHIC SCALES

NTS

PROJECT LENGTH

MAP 5 = 2.28 MILES  
MAP 6 = 0.15 MILES  
MAP 7 = 2.42 MILES  
MAP 8 = 1.48 MILES  
MAP 9 = 2.05 MILES

LENGTH PROJECT 2020CPT.01.01.20461.1 = 8.38 MI.

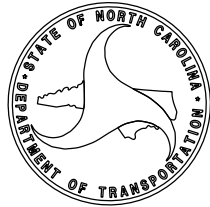
Prepared In the Office of:  
**DIVISION OF HIGHWAYS**  
113 Airport Dr., Edenton NC, 27932

2018 STANDARD SPECIFICATIONS

W. B. HOBBS, PE  
DIVISION PROJECT TEAM LEAD

CHRIS SLACHTA  
DIVISION CONTRACT ENGINEER

S. P. FENWICK, PLS  
DIVISION DESIGN ENGINEER



6/2/99

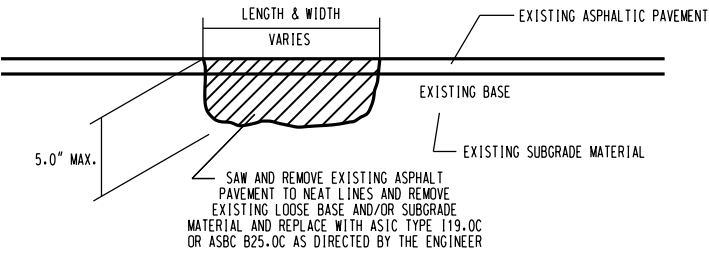
24-MAY-2021 10:46  
St. Contracts\61-Proposed\_Resurfacing\DA00502\_BERTIE NORTH HERTFORD SEC\Design\_Files\DA00502.DI-5-13-2021.sh3.dgn  
Stanwick - A - 11101-304734

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
F1	ASPHALT SURFACE TREATMENT, SINGLE SEAL
F2	ASPHALT SURFACE TREATMENT, DOUBLE SEAL
T	EARTH MATERIAL
U	EXISTING PAVEMENT.
V1	MILLING ASPHALT PAVEMENT. 1.5" IN DEPTH.

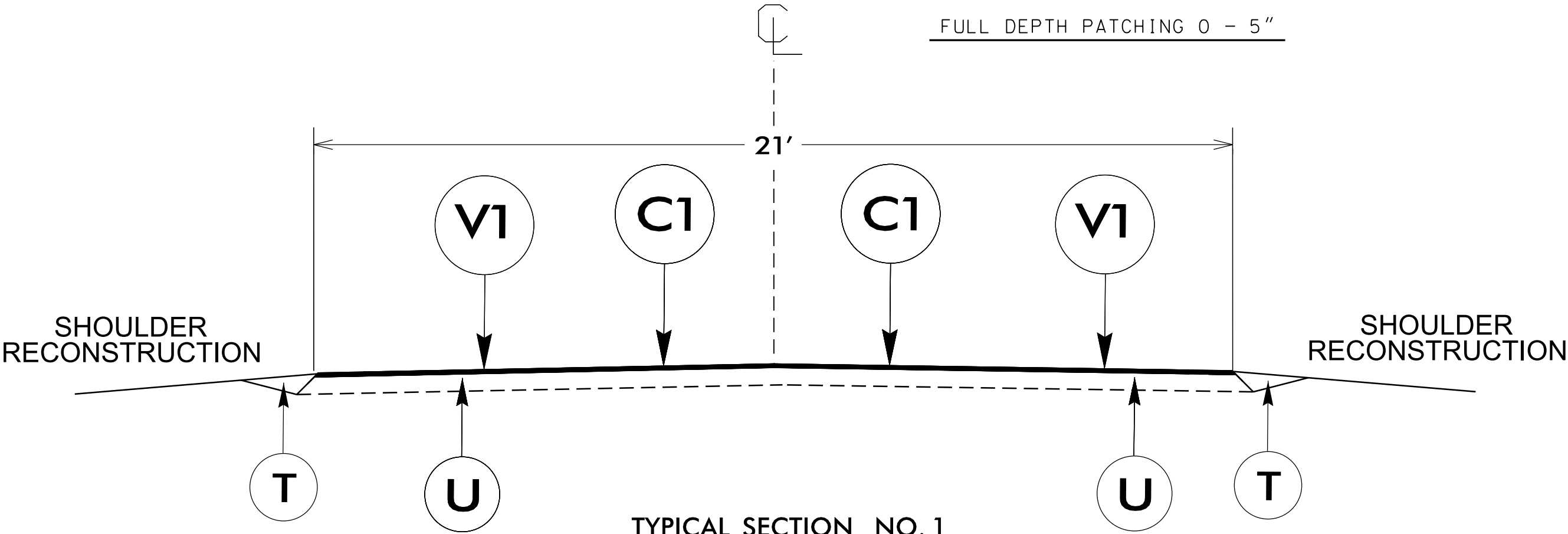
NOTES:

- \* ALL INTERSECTING ROADS ARE TO BE RESURFACED TO THE ENDS OF THEIR RADII, THE MAIN LINE RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER. THIS SHALL INCLUDE ANY TAPERS AND TURN LANES LOCATED BOTH ON THE MAIN LINE OR INTERSECTING PAVED ROADWAY.
- \* EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES



\*NOTE: EDGES OF PATCHED AREA ARE TO BE CLEANED OF ALL DEBRIS AND COATED WITH AN APPROVED TACK MATERIAL BEFORE PLACING ASPHALT.

FULL DEPTH PATCHING 0 - 5"



TYPICAL SECTION NO. 1

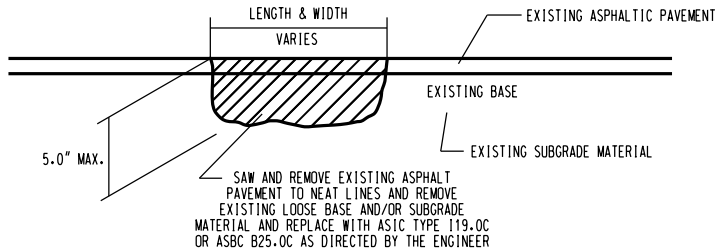
USE WITH: MAP 1

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
F1	ASPHALT SURFACE TREATMENT, SINGLE SEAL
F2	ASPHALT SURFACE TREATMENT, DOUBLE SEAL
T	EARTH MATERIAL
U	EXISTING PAVEMENT.
V1	MILLING ASPHALT PAVEMENT. 1.5" IN DEPTH.

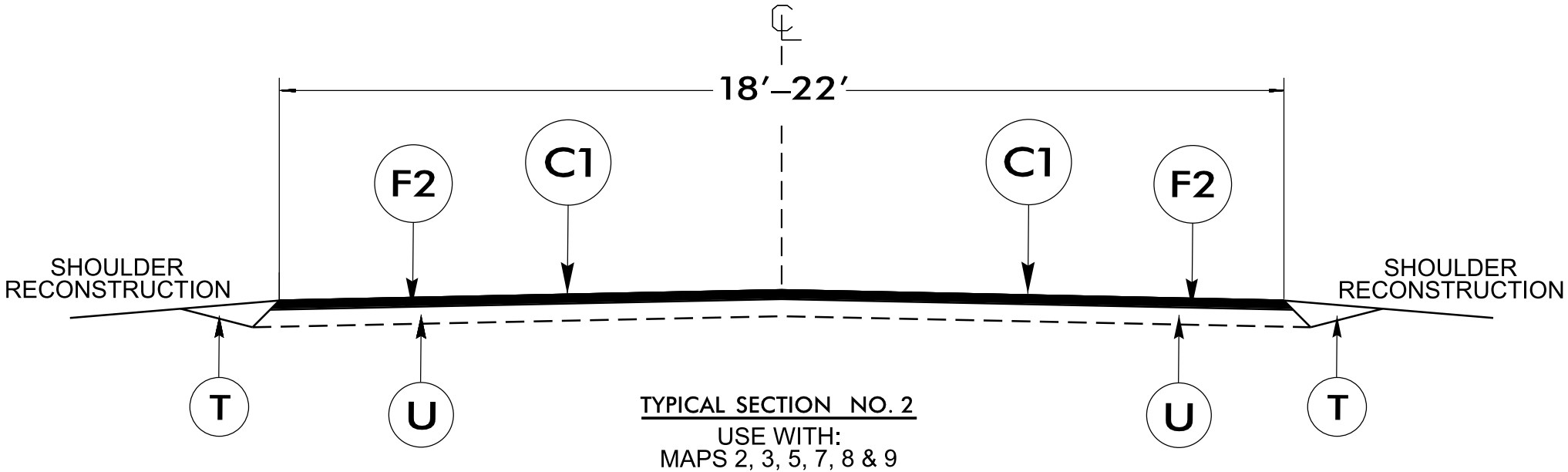
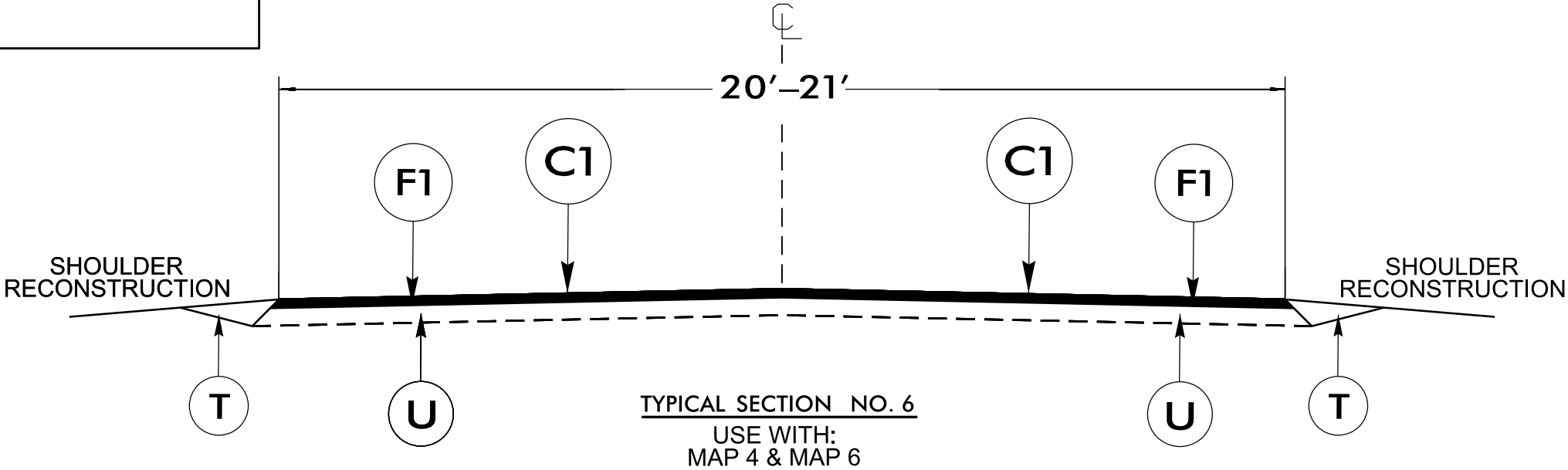
NOTES:

- \* ALL INTERSECTING ROADS ARE TO BE RESURFACED TO THE ENDS OF THEIR RADII, THE MAIN LINE RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER. THIS SHALL INCLUDE ANY TAPERS AND TURN LANES LOCATED BOTH ON THE MAIN LINE OR INTERSECTING PAVED ROADWAY.
- \* EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES
- \* ASPHALT SURFACE TREATMENT SHALL BE ALLOWED TO SET UP FOR A MINIMUM OF 10 DAYS BEFORE ANY OTHER WORK CAN BE PERFORMED. ASPHALT SURFACE TREATMENT SHALL BE THOROUGHLY BROOMED TO REMOVE EXCESS AGGREGATE, PRIOR TO FINAL SURFACE LAYER BEING INSTALLED
- \* ASPHALT SURFACE TREATMENT (DOUBLE SEAL) CONSISTS OF TWO LAYERS OF TREATMENT: BOTTOM LAYER CONSISTS OF EMULSIFIED ASPHALT, GRADE CRS-2L AT A RATE OF 0.30± GAL/SY AND A LAYER OF 78M AGGREGATE AT A RATE OF 18± LBS/SY. TOP LAYER CONSISTS OF EMULSIFIED ASPHALT, GRADE CRS-2L AT A RATE OF 0.25± GAL/SY AND A LAYER OF 5/16" LIGHTWEIGHT AGGREGATE AT A RATE OF 9± LBS/SY.
- \* ASPHALT SURFACE TREATMENT (SINGLE SEAL) CONSISTS OF: ONE LAYER OF EMULSIFIED ASPHALT GRADE CRS-2L AT A RATE OF 0.28± GAL/SY AND ONE LAYER OF 5/16 LIGHTWEIGHT AGGREGATE AT A RATE OF 9± LBS/SY.



\*NOTE: EDGES OF PATCHED AREA ARE TO BE CLEANED OF ALL DEBRIS AND COATED WITH AN APPROVED TACK MATERIAL BEFORE PLACING ASPHALT.

FULL DEPTH PATCHING, 0 - 5"





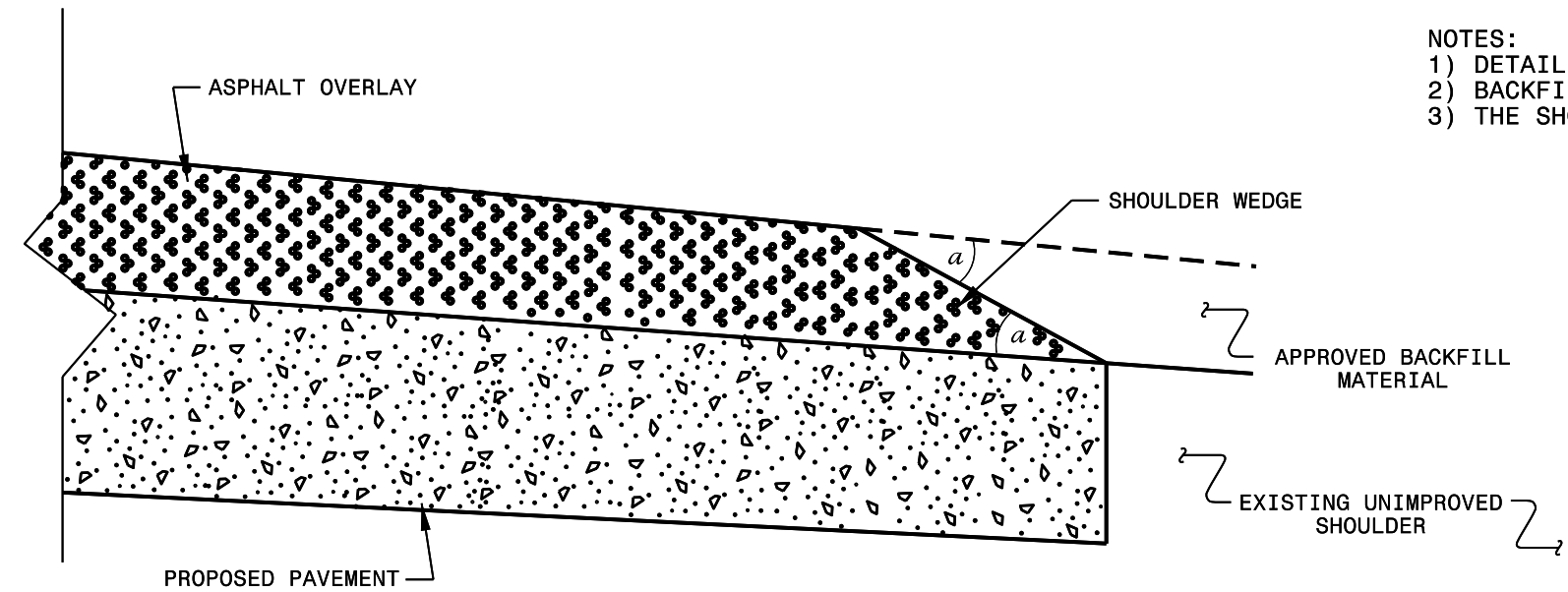
SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES																															
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	MOBILIZATION	BORROW EXCAVATION	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	MILLING ASPHALT PAVEMENT (1½")	INCIDENTAL MILLING	ASPHALT CONC SURFACE COURSE, \$9.58	ASPHALT BINDER FOR PLANT MIX	ASPHALT SURFACE TREATMENT, DOUBLE SEAL	ASPHALT SURFACE TREATMENT, SINGLE SEAL	EMULSION FOR ASPHALT SURFACE TREATMENT	GENERIC PAVING ITEM, PATCHING EXISTING PAVEMENT FULL DEPTH 0-5"	STEEL BEAM GUARDRAIL	GUARDRAIL ANCHOR UNITS, TYPE III	GUARDRAIL END UNITS, TYPE TL-3	REMOVE EXISTING GUARDRAIL	TEMPORARY SILT FENCE	COIR FIBER WATTLE	SEEDING & MULCHING	RESPONSE FOR EROSION CONTROL
										MI	FT	LS	CY	TONS	SMI	SY	SY	TONS	TONS	SY	SY	GAL	TON	LF	EA	EA	LF	LF	LF	ACR	EA
2022CPT.01.01.20081.1	Bertie	1	SR1200 CONNARITSA RD	SR1221 TO NC305	1	2	2WU	NO	NO	3.11	21	1	622	62	6.22	38,315	1,720	3,699	248				120					100	100	3.1	3
2022CPT.01.01.20081.1	Bertie	2	SR1221 CHARLES TAYLOR RD	SR1219 TO SR1260	2	2	2WU	NO	NO	3.50	19	*	700	70	7.00		300	3,635	244	39,341		23,604	452				100	100	3.5	4	
2022CPT.01.01.20081.1	Bertie	3	SR1219 FRANCIS MILL RD	SR1221 TO NC308	2	2	2WU	NO	NO	2.26	20	*	452	45	4.52			2,449	164	26,517		16,000	426	951	4	4	951	1,000	1,000	2.3	2
2022CPT.01.01.20081.1	Bertie	4	SR1235 CENTER GROVE RD	SR1228 TO SR1240	3	2	2WU	NO	NO	1.83	21	*	366	37	3.66		200	2,082	139		22,546	6,763	20				200	200	1.8	2	
TOTAL FOR PROJ NO. 2022CPT.01.01.20081.1										10.70			2,140	214	21.40	38,315	2,220	11,865	795	65,858	22,546	46,367	1,018	951	4	4	951	1,400	1,400	10.7	11
2022CPT.01.01.20461.1	Hertford	5	SR1169 EAST WOODROW SCHOOL RD	SR1167 TO NC11	2	2	2WU	NO	NO	2.28	18	*	456	46	4.56		500	2,439	163	26,400		15,839	41				100	100	2.3	2	
2022CPT.01.01.20461.1	Hertford	6	SR1230 CLOVERS CT	SR1182 TO US158 BYPASS	3	2	2WU	NO	NO	0.15	20	*	30	3	0.30		300	176	12		1,903	570	30				100	100	0.2	1	
2022CPT.01.01.20461.1	Hertford	7	SR1305 HAREWOOD RD	DEADEND TO SR1303	2	2	2WU	NO	NO	2.42	18	*	484	48	4.84		100	2,362	158	25,555		15,333	222				100	100	2.4	2	
2022CPT.01.01.20461.1	Hertford	8	SR1310 STATESVILLE RD	SR1308 TO US258	2	2	2WU	NO	NO	1.48	22	*	296	30	2.96		400	1,805	121	19,527		11,716	50				100	100	1.5	2	
2022CPT.01.01.20461.1	Hertford	9	SR1315 NEW HOPE CHURCH RD	SR1320 TO SR1347	2	2	2WU	NO	NO	2.05	20	*	410	41	4.10		500	2,293	154	24,811		14,900	30				100	100	2.1	2	
TOTAL FOR PROJ NO. 2022CPT.01.01.20461.1										8.38			1,676	168	16.76		1,800	9,075	608	96,293	1,903	58,358	373					500	500	8.5	9
GRAND TOTAL										19.08		1	3,816	382	38.16	38,315	4,020	20,940	1,403	162,151	24,449	104,725	1,391	951	4	4	951	1,900	1,900	19.2	20

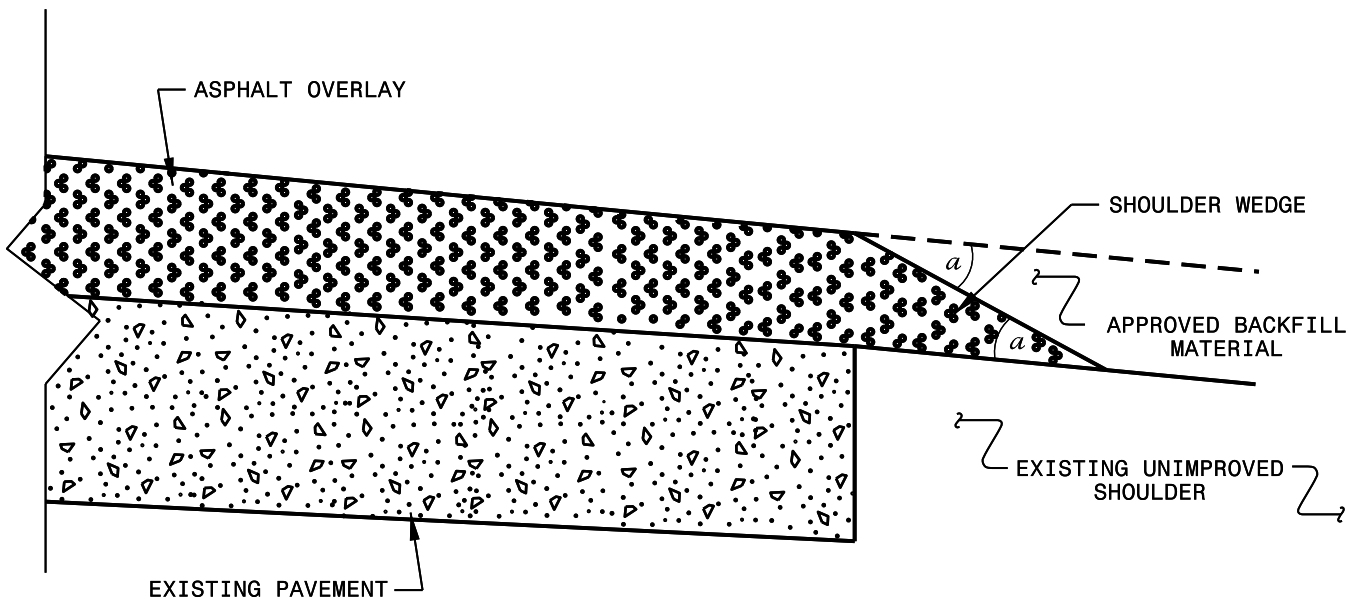
THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	WORK ZONE ADV/GEN WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	PAINT PAVEMENT MARKING LINES (4") WHITE	PAINT PAVEMENT MARKING LINES (4") YELLOW	GEN PAVEMENT MARKING ITEM, THERMO HOT SPRAY LINES (4" 55 MILS) WHITE	GEN PAVEMENT MARKING ITEM, THERMO HOT SPRAY LINES (4" 55 MILS) YELLOW
										MI	FT	SF	LS	LF	LF	LF	LF
2022CPT.01.01.20081.1	Bertie	1	SR1200 CONNARITSA RD	SR1221 TO NC305	1	2	2WU	NO	NO	3.11	21	400	1	33,464	41,052	33,464	20,526
2022CPT.01.01.20081.1	Bertie	2	SR1221 CHARLES TAYLOR RD	SR1219 TO SR1260	2	2	2WU	NO	NO	3.5	19	336	*	37,660	46,200	37,660	23,100
2022CPT.01.01.20081.1	Bertie	3	SR1219 FRANCIS MILL RD	SR1221 TO NC308	2	2	2WU	NO	NO	2.26	20	334	*	24,318	29,832	24,318	14,916
2022CPT.01.01.20081.1	Bertie	4	SR1235 CENTER GROVE RD	SR1228 TO SR1240	3	2	2WU	NO	NO	1.83	21	80	*	19,691	24,156	19,691	12,078
TOTAL FOR PROJ NO. 2022CPT.01.01.20081.1										10.7		1,150		115,133	141,240	115,133	70,620
														256,373		185,753	
2022CPT.01.01.20461.1	Hertford	5	SR1169 EAST WOODROW SCHOOL RD	SR1167 TO NC11	2	2	2WU	NO	NO	2.28	18	408	*	24,533	30,096	24,533	15,048
2022CPT.01.01.20461.1	Hertford	6	SR1230 CLOVERS CT	SR1182 TO US158 BYPASS	3	2	2WU	NO	NO	0.15	20	80	*	1,614	1,980	1,614	990
2022CPT.01.01.20461.1	Hertford	7	SR1305 HAREWOOD RD	DEADEND TO SR1303	2	2	2WU	NO	NO	2.42	18	232	*	26,039	31,944	26,039	15,972
2022CPT.01.01.20461.1	Hertford	8	SR1310 STATESVILLE RD	SR1308 TO US258	2	2	2WU	NO	NO	1.48	22	80	*	15,925	19,536	15,925	9,768
2022CPT.01.01.20461.1	Hertford	9	SR1315 NEW HOPE CHURCH RD	SR1320 TO SR1347	2	2	2WU	NO	NO	2.05	20	232	*	22,058	27,060	22,058	13,530
TOTAL FOR PROJ NO. 2022CPT.01.01.20461.1										8.38		1,032		90,169	110,616	90,169	55,308
														200,785		145,477	
GRAND TOTAL										19.08		2,182	1	205,302	251,856	205,302	125,928
														457,158		331,230	

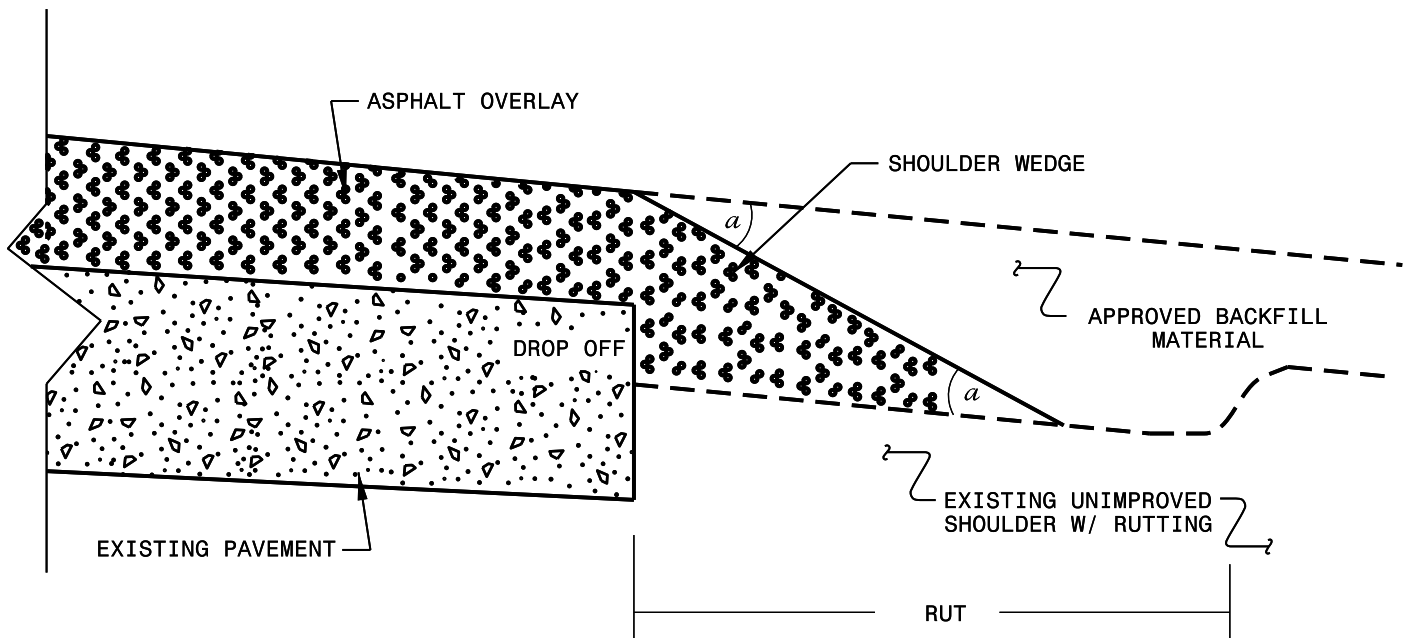
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFc AND ULTRA-THIN BONDED WEARING COURSE.
  - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
  - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



**SHOULDER WEDGE DETAIL**  
(Resurfacing Projects w/ Widening or  
with Existing Paved Shoulder having no dropoffs)



**SHOULDER WEDGE DETAIL**  
(Resurfacing Projects w/ NO Widening)

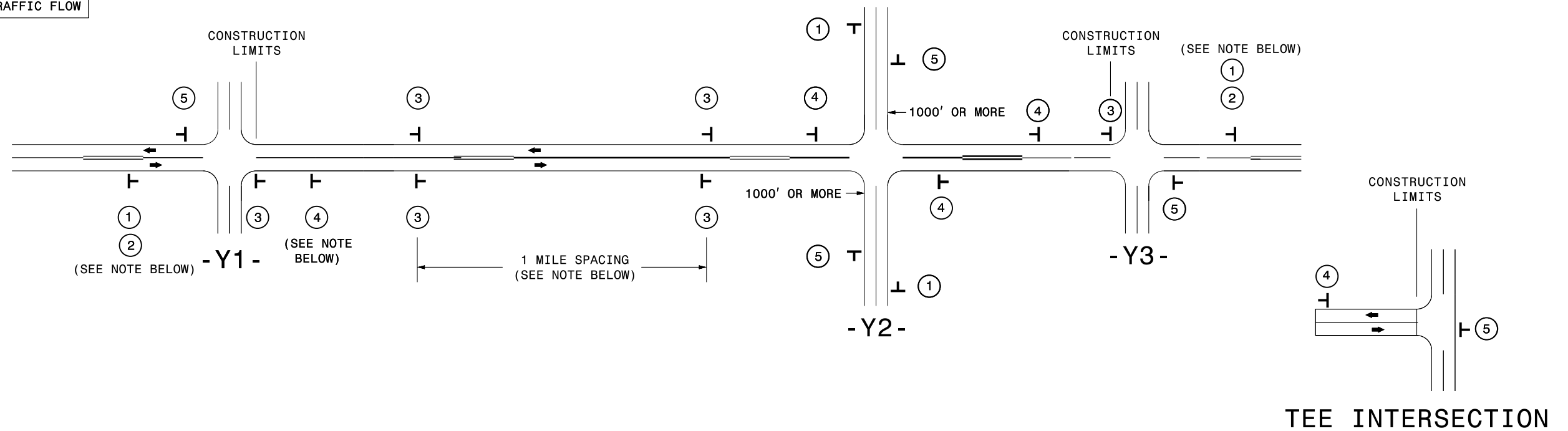
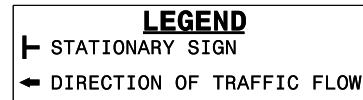


**SHOULDER WEDGE DETAIL**  
(Resurfacing Adjacent to  
Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°








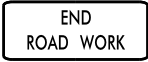

<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>			
Office 919-707-6950		FAX 919-250-4119	
<b>SHOULDER WEDGE DETAILS</b>			
ORIGINAL BY: T. SPELL		DATE: 7-19-11	
MODIFIED BY:		DATE: 10/16/12	
CHECKED BY:		DATE:	
FILE SPEC.: s:\usr\details\stand\shoulderwedgedetail.dgn			

## SIGNING FOR RESURFACING PROJECTS



MAINLINE ( - L - ) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	<div> <div> <div>1</div> <div>  <div> W20-1 48" X 48" </div> </div> </div> <div> <div>2</div> <div>  <div> W7-3aP 24" X 18" </div> </div> </div> </div> <div> PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS.  ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE. </div> <div> #2 SIGN ONLY USED WHEN CONSTRUCTION LIMITS ARE 2 OR MORE MILES IN LENGTH.  ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS) </div>	<div>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</div> <div> 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE  2) SUBDIVISION ROADS  3) DEAD END ROADS </div> <div> WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK. </div> <div> <div>  <div> W20-1 48" X 48" </div> </div> <div>  <div> W20-7 A 48" X 48" </div> </div> <div> PLACED 500' IN ADVANCE OF FLAGGER. </div> </div>
	<div> <div>3</div> <div>  <div> SP 13107 48" X 48" </div> </div> <div>  <div> SP 48" X 48" </div> </div> </div> <div> - PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER.  - AT TEE INTERSECTIONS INSTALL INITIALLY 1/2 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER. </div>	
	<div> <div>4</div> <div>  <div> SP 13106 48" X 48" </div> </div> </div> <div> - THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS.  - DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS.  - INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE.  - FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH.  - A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.  - FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE. </div>	
	<div> <div>5</div> <div>  <div> G20-2 A 48" X 24" </div> </div> </div> <div> PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION. </div>	
	<div> THE ABOVE SIGNS ARE ALL THAT ARE REQUIRED FOR A CONTRACTOR TO BEGIN A RESURFACING CONTRACT. ANY ADDITIONAL SIGNS REQUESTED BY NCDOT DIVISIONS SHALL BE INSTALLED WITHIN 7 BUSINESS DAYS OF THE START OF CONTRACT WORK. </div>	
<div> MAPS LESS THAN 2 MILES </div>	<div> FOR RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, NO STATIONARY SIGNS ARE REQUIRED. USE PORTABLE "ROAD UNDER CONSTRUCTION" OR "ROAD WORK AHEAD" SIGNS IN LIEU OF STATIONARY ADVANCE WARNINGS SIGNS. </div>	<div>  </div>

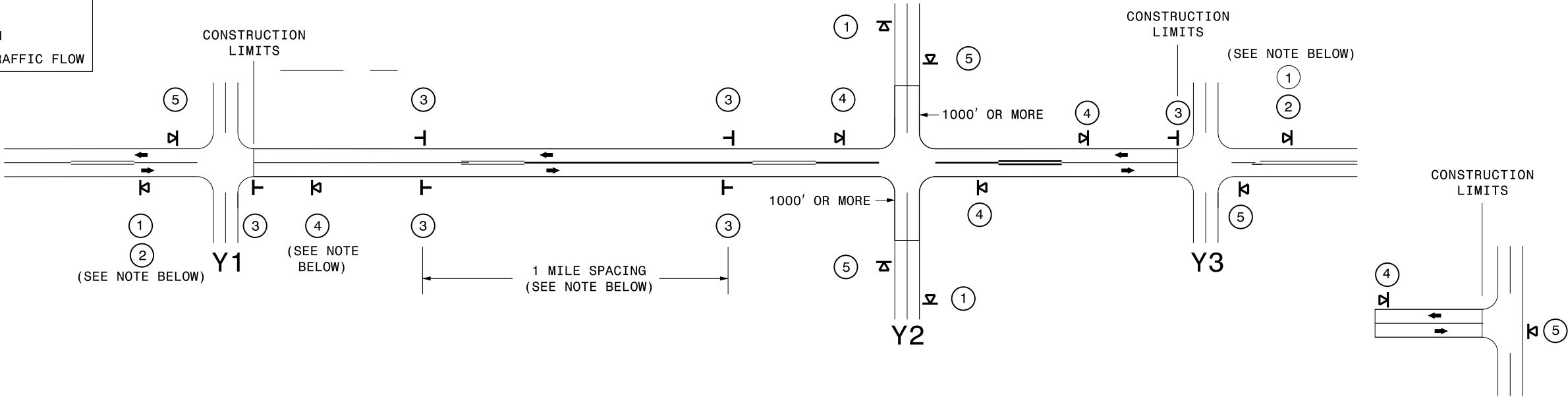
SIGNING FOR ASPHALT SURFACE TREATMENT

LEGEND

PORTABLE SIGN

STATIONARY SIGN

DIRECTION OF TRAFFIC FLOW



TEE INTERSECTION

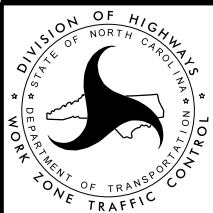
MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	<div><div>1</div><div> W20-1 48" X 48"</div></div> <div><div>2</div><div> W7-3aP 24" X 18"</div></div>	<ul style="list-style-type: none"><li>- PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</li><li>- SIGN #2 ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO THE NEAREST WHOLE NUMBER. DO NOT USE FRACTIONAL OR DECIMAL NUMBERS.</li></ul>	STATIONARY SIGNING NOT REQUIRED FOR THE FOLLOWING -Y- LINE CONDITIONS:  1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS  WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.  <div><div> W20-1 48" X 48"</div><div>PLACED 500' IN ADVANCE OF FLAGGER.</div></div> <div><div> W20-7 A 48" X 48"</div><div>PLACED 250' IN ADVANCE OF FLAGGER.</div></div>
	<div><div>3</div><div> W8-7 48" X 48"</div></div> <div><div> SP 48" X 48"</div></div>	<ul style="list-style-type: none"><li>- ALTERNATE THE FOLLOWING TWO SIGNS:</li><li>- STARTING WITH "LOOSE GRAVEL" (W8-7) FOLLOWED BY "UNMARKED PAVEMENT".</li><li>- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER.</li><li>- AT TEE INTERSECTIONS INSTALL INITIALLY 0.5 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.</li></ul>	
	<div><div>4</div><div> SP 13106 48" X 48"</div></div>	<ul style="list-style-type: none"><li>- THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS.</li><li>- INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE.</li><li>- FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH.</li><li>- A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.</li></ul>	
	<div><div>5</div><div> G20-2 A 48" X 24"</div></div>	<p>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.</p>	
	THE ABOVE SIGNS ARE ALL THAT ARE REQUIRED FOR A CONTRACTOR TO BEGIN A RESURFACING CONTRACT. ANY ADDITIONAL SIGNS REQUESTED BY NCDOT DIVISIONS SHALL BE INSTALLED WITHIN 7 BUSINESS DAYS OF THE START OF CONTRACT WORK.		
PS LESS 2 MILES	FOR AST RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, USE A STATIONARY "LOOSE GRAVEL" SIGN AT THE BEGINNING CONSTRUCTION LIMIT FOLLOWED BY AN "UNMARKED PAVEMENT" SIGN MIDWAY THROUGH AND AN "END ROAD WORK" SIGN AT THE END CONSTRUCTION LIMIT.		

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
WORK ZONE TRAFFIC CONTROL

A  
ASF



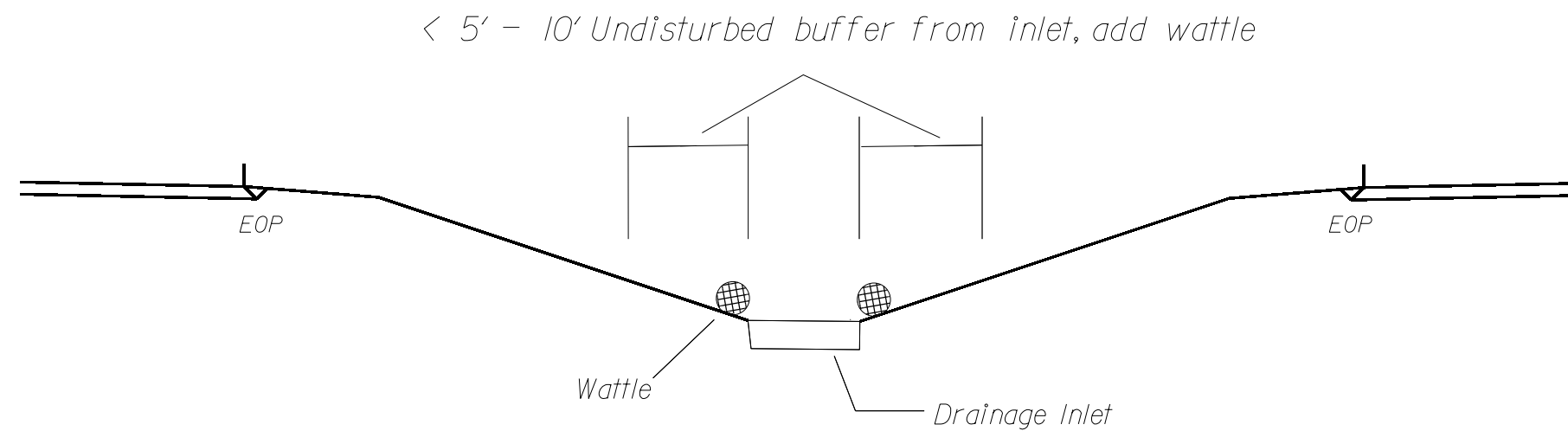
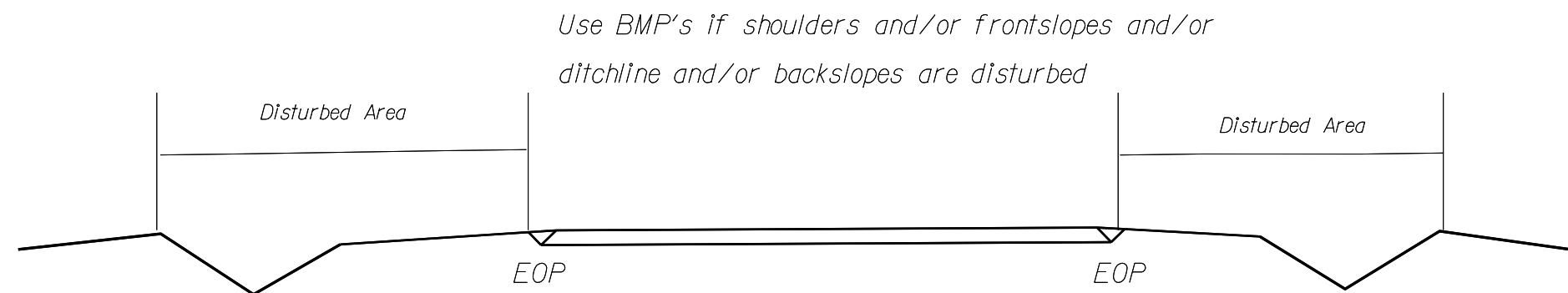
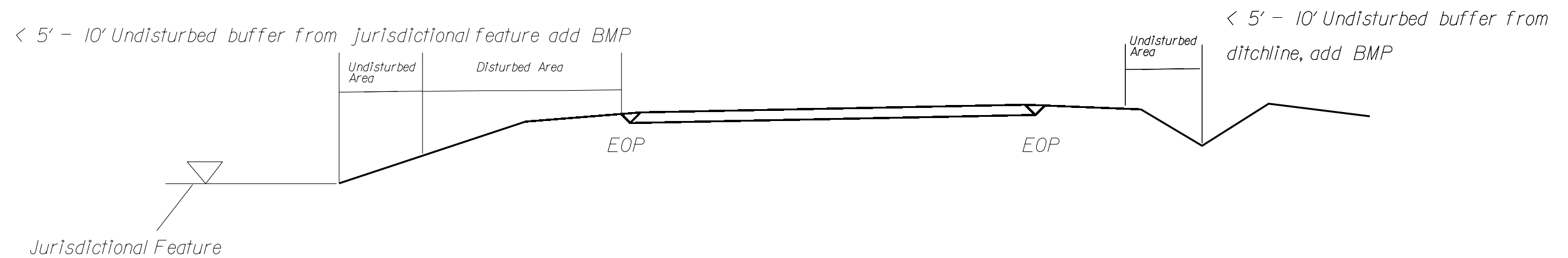
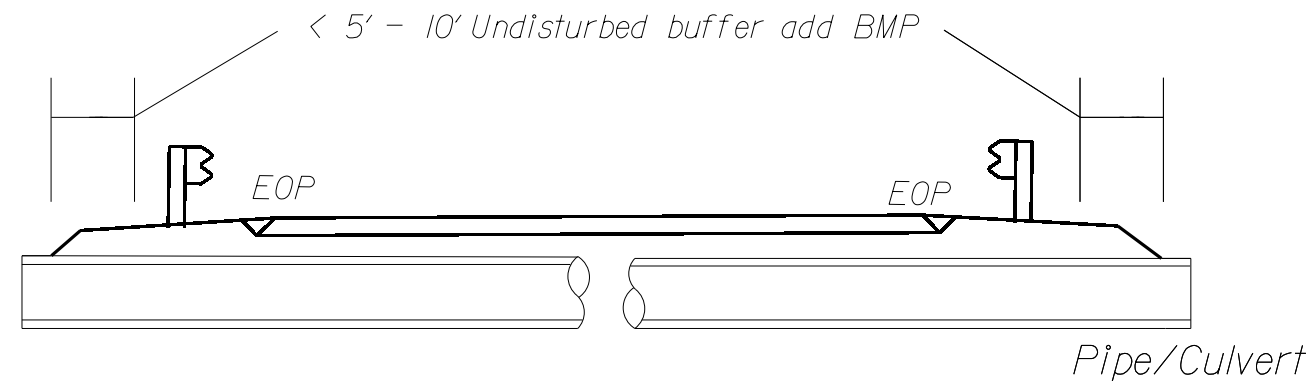
ADVANCE WARNING SIGNS  
FOR  
2-LANE ROADWAY  
ASPHALT SURFACE TREATMENT



NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

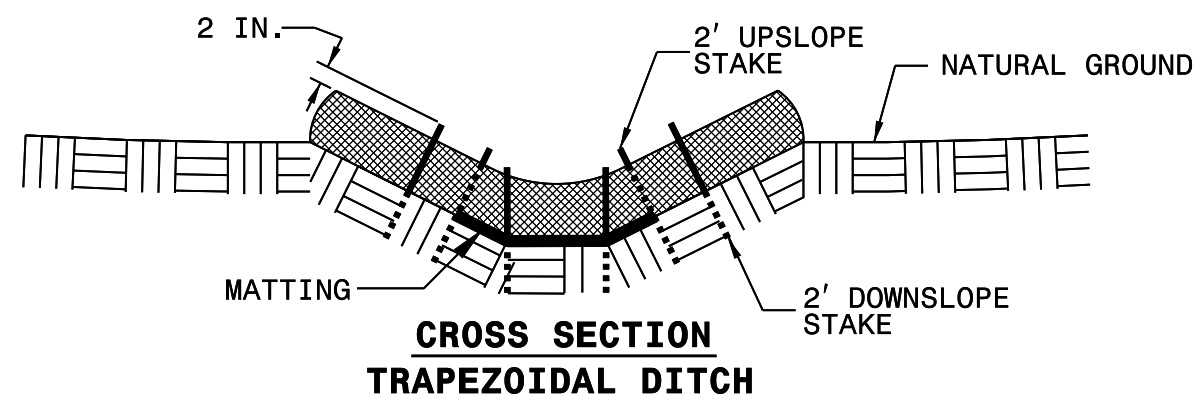
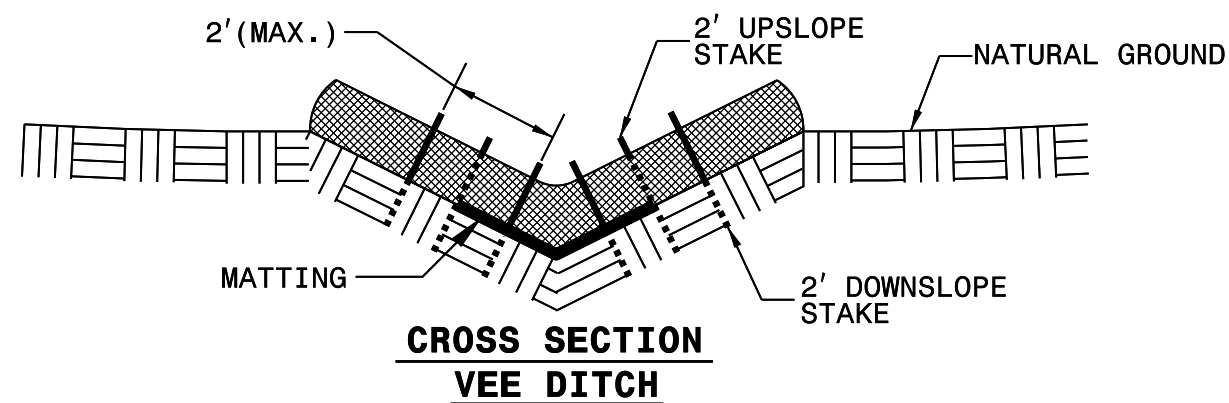
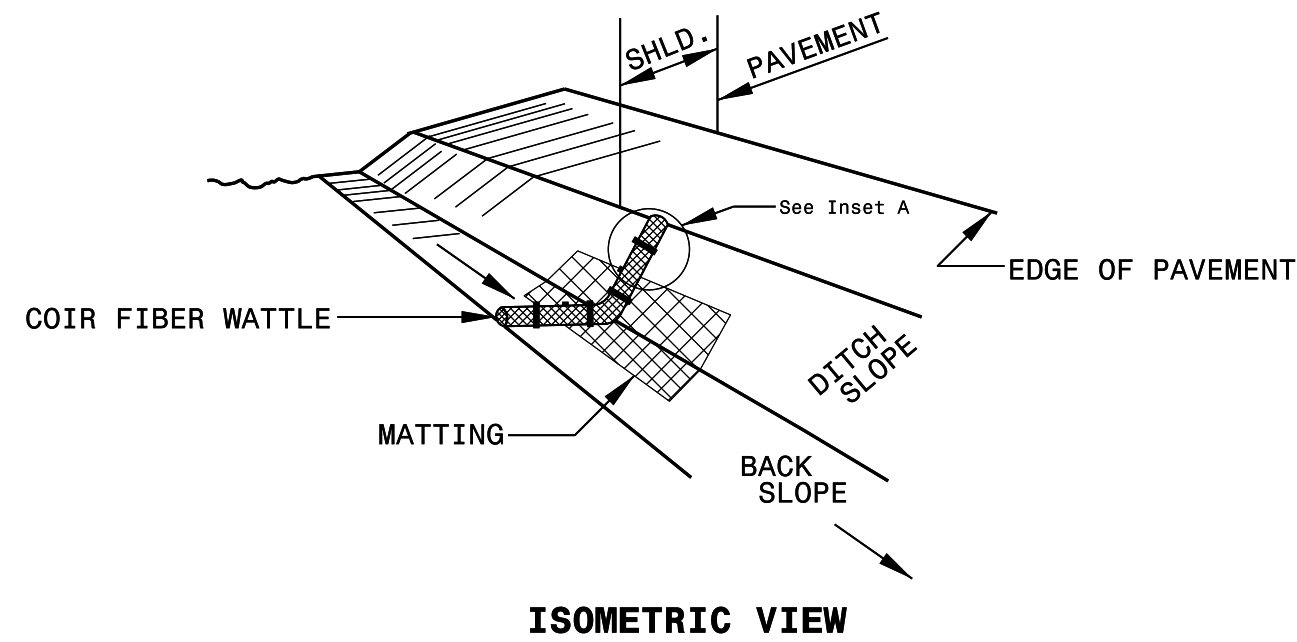
BMP Options: Wattle or Silt Fence

# EROSION CONTROL DETAIL



NOT TO SCALE

# COIR FIBER WATTLE DETAIL



## NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

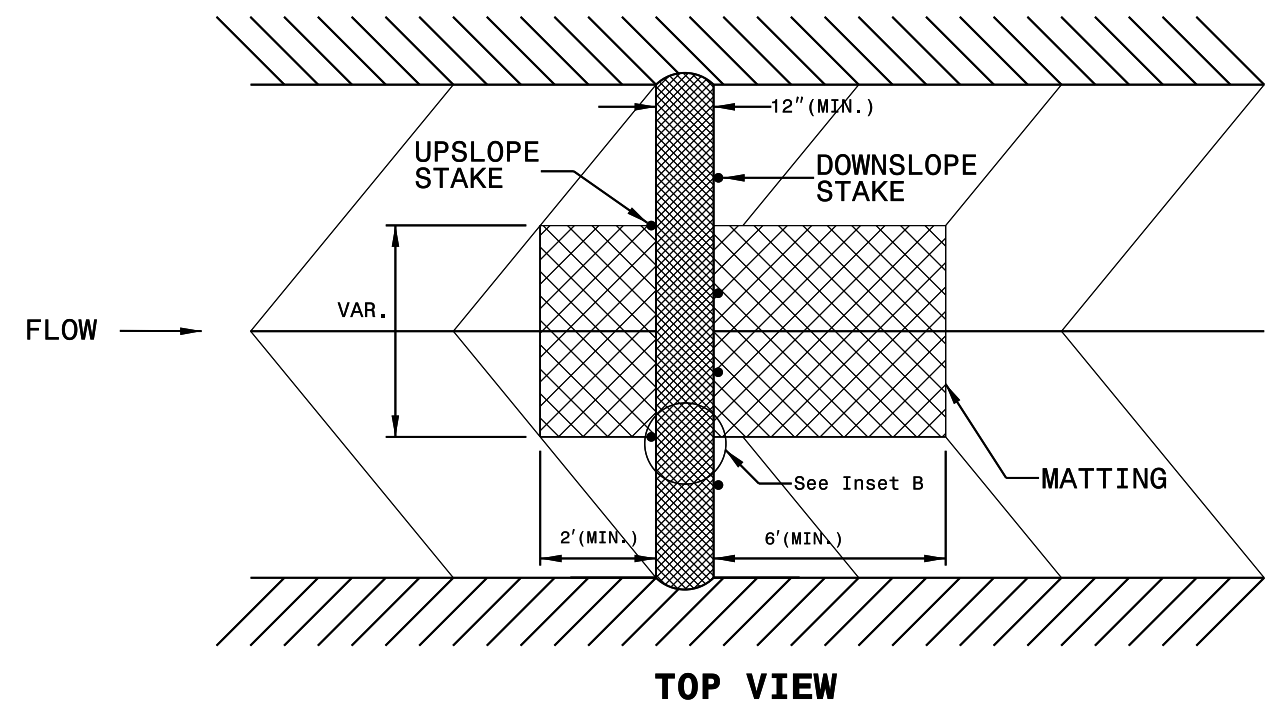
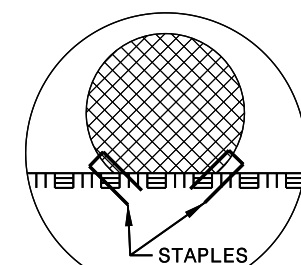
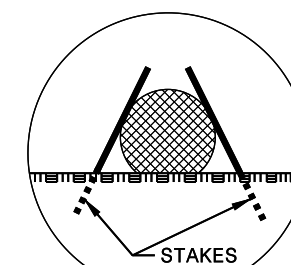
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.