

CARTERET COUNTY

DB00332

WBS: 2017CPT.02.41.20161.2

2017CPT.02.42.20162.2

LOCATION:

MAP 1 - SR 1106 from NC 58 to SR 1204

MAP 2 - SR 1264 from SR 1106 to Dead End

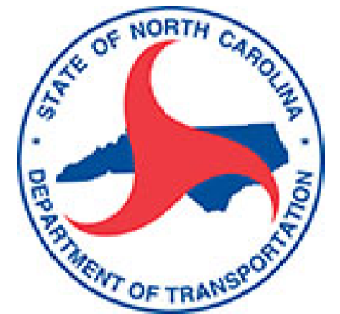
MAP 3 - SR 1114 from NC 58 to Dead End

MAP 4 - SR 1785 from SR 1611 to SR 1626

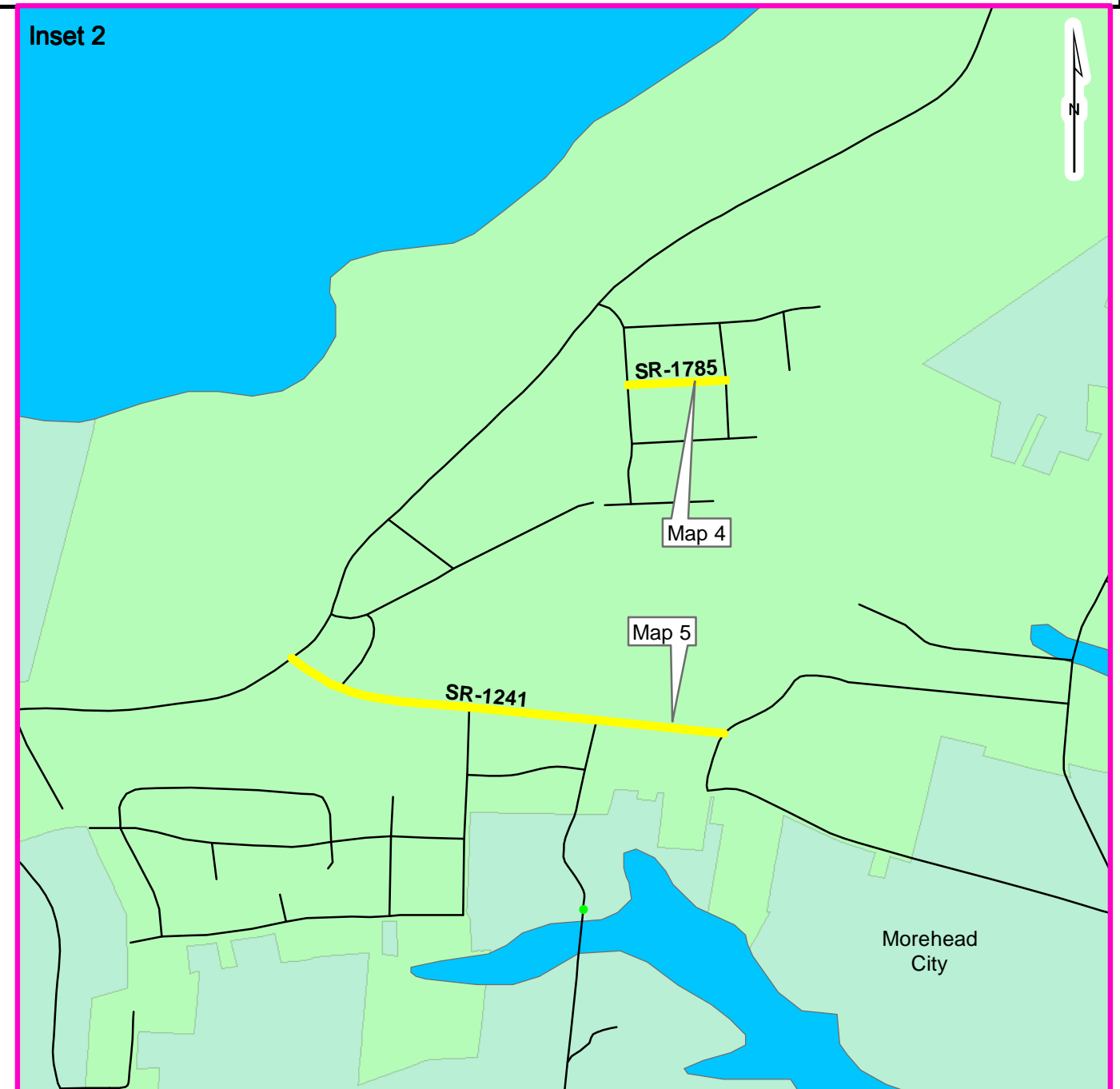
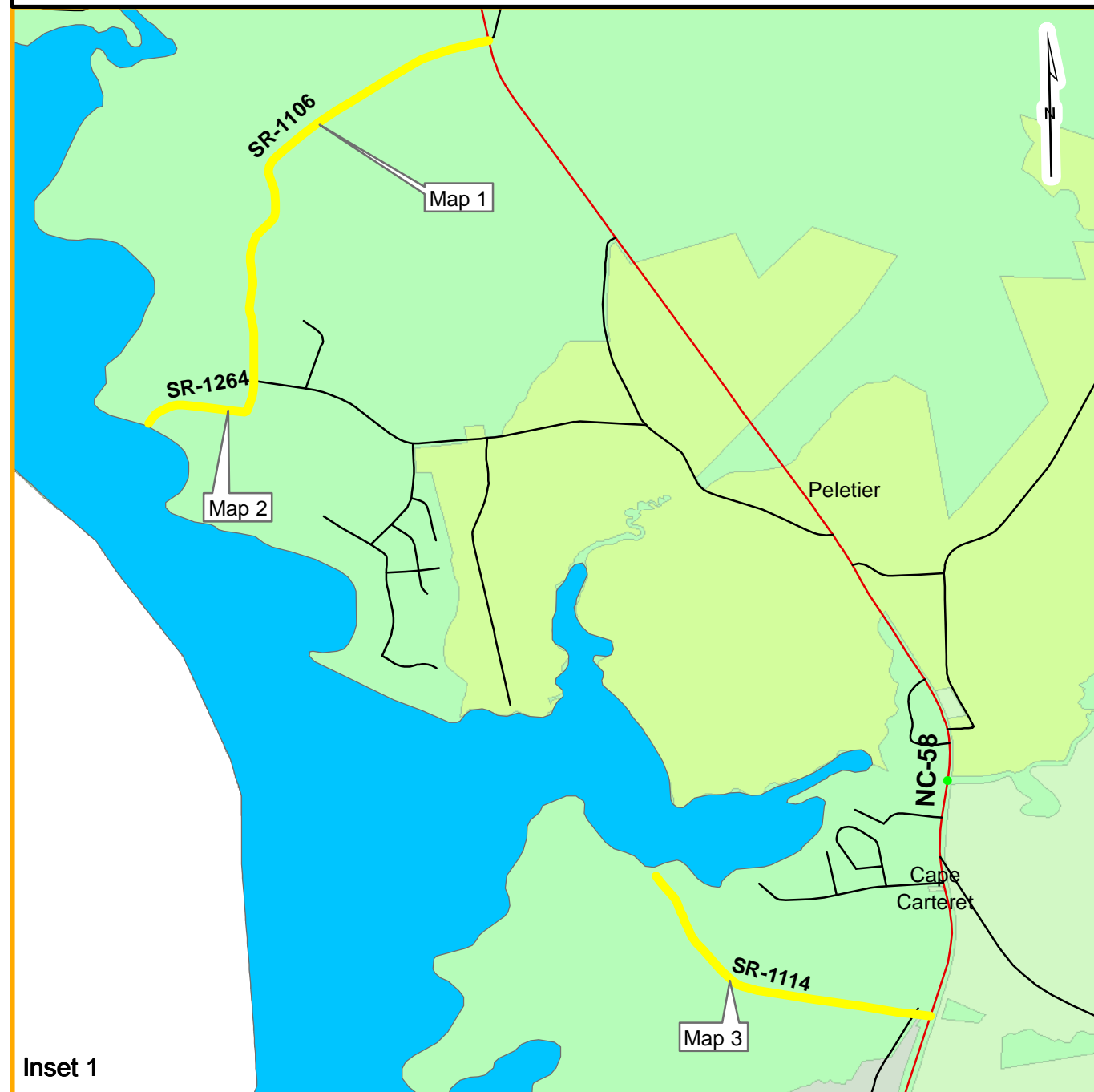
MAP 5 - SR 1241 from SR 1177 to SR 1178

TYPE OF WORK: WIDENING, STRENGTHENING, RESURFACING & SHOULDER RECONSTRUCTION.

PROJECT REFERENCE NO.	SHEET NO.
2017CPT.02.41.20161.2	1
2017CPT.02.42.20162.2	

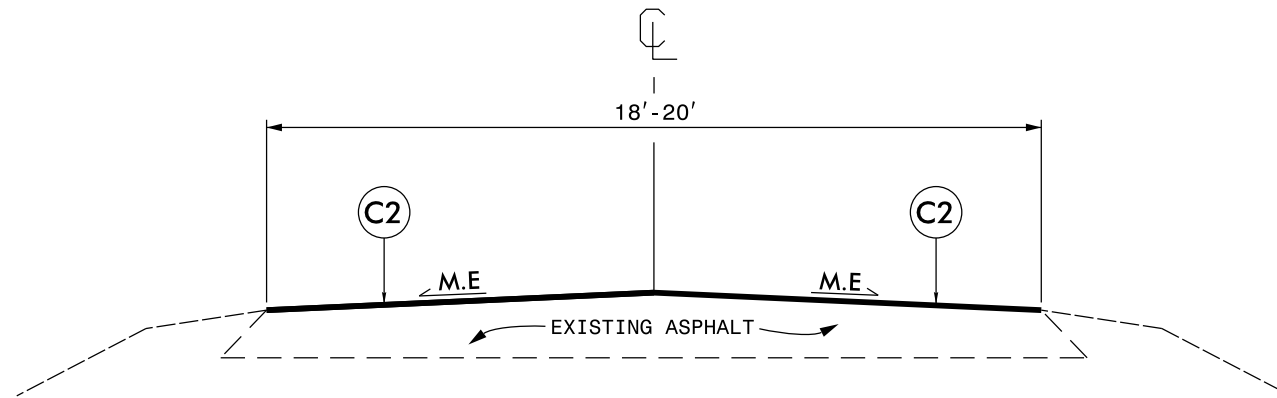


NCDOT
DIVISION 2



TYPICAL SECTION NO. 1

MAP 1 – SR-1106 from NC-58 to SR-1204
 MAP 2 – SR-1264 from SR-1106 to Dead End
 MAP 3 – SR-1114 from NC-58 to Dead End

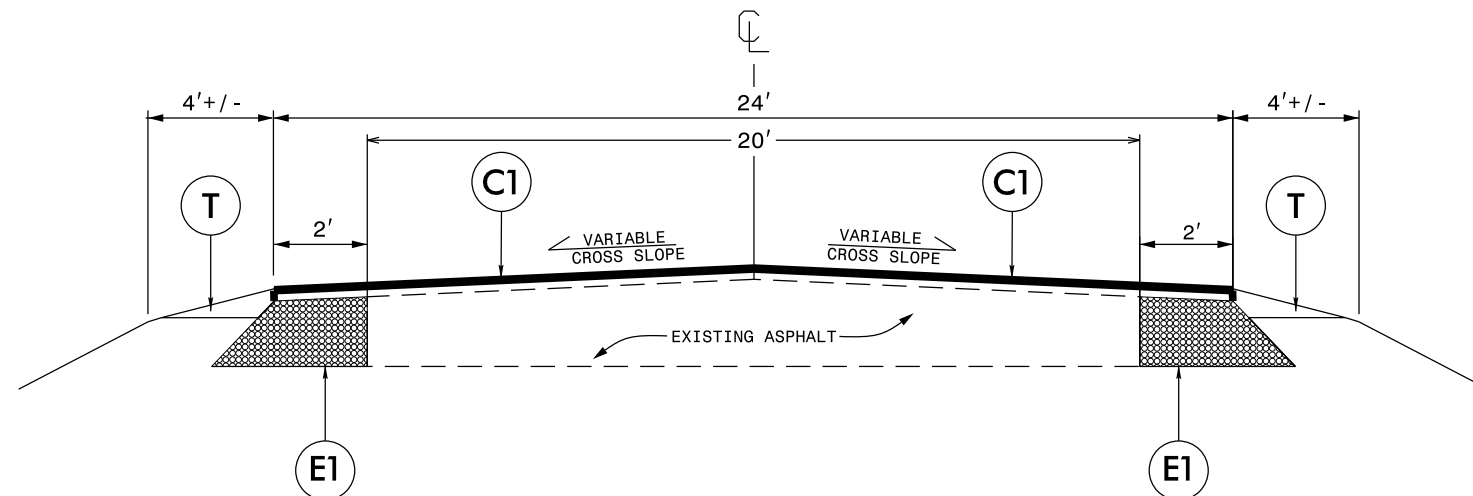


NOTE:

1. PLACE ASPHALT SURFACE COURSE AT FULL WIDTH OF EXISTING ASPHALT PAVEMENT.

TYPICAL SECTION NO. 2

MAP 5 – SR-1241 FROM SR-1177 TO SR-1176.



NOTE:

1. PLACE SYMMETRICAL WIDENING, AS DIRECTED BY THE ENGINEER. MAKE FLUSH WITH THE EXISTING ASPHALT.
2. TRENCHING FOR WIDENING SHALL BE PERFORMED WITH A MILLING MACHINE OR SIMILAR EQUIPMENT.
3. PLACE ASPHALT SURFACE COURSE AT FULL WIDTH, INCLUDING NEW WIDENING.
4. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE SECTIONS AND BRIDGE APPROACH TIE-INS, OR AS DIRECTED BY THE ENGINEER. SEE DETAIL 1 & 2

PAVEMENT SCHEDULE

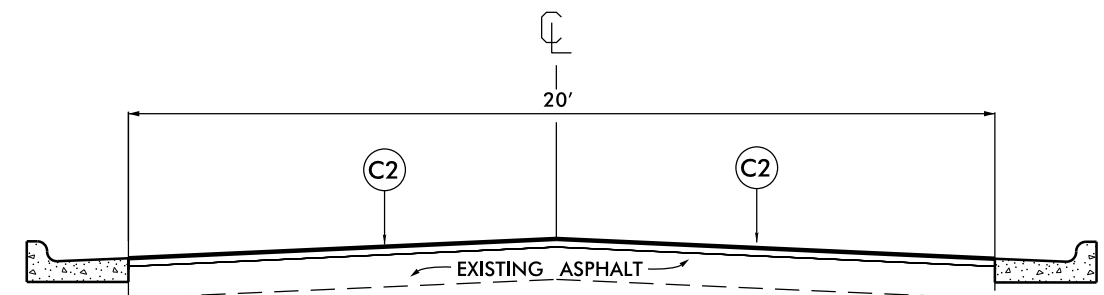
C1	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 220.0 LBS. PER SQ. YD.
C2	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110.0 LBS. PER SQ. YD.
E1	PROP. APPROX. 6" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 684.0 LBS. PER SQ. YD.
T	SHOULDER RECONSTRUCTION
V1	INCIDENTAL MILLING.

DRAWINGS NOT TO SCALE

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

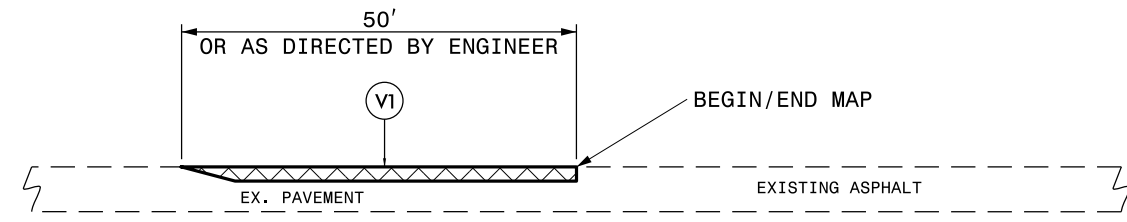
TYPICAL SECTION NO. 3

MAP 4 – SR-1785 FROM SR-1611 TO SR-1626.



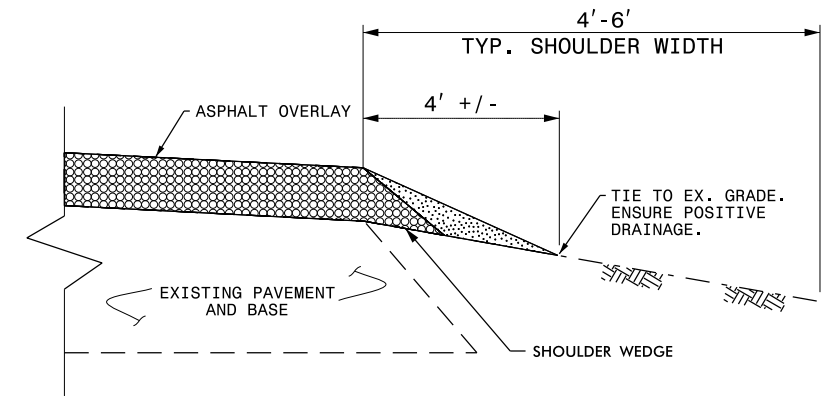
NOTE:

1. PLACE ASPHALT SURFACE COURSE AT FULL WIDTH OF EXISTING ASPHALT PAVEMENT, AS DIRECTED BY THE ENGINEER.



DETAIL 1
BEGIN/END MAP TIE-IN

NOTE:
1. MILLING SHALL BE PERFORMED AT MAIN LINE TIE-INS AND Y-LINE TIE-INS AS DIRECTED BY THE ENGINEER, IN ACCORDANCE WITH THIS DETAIL.



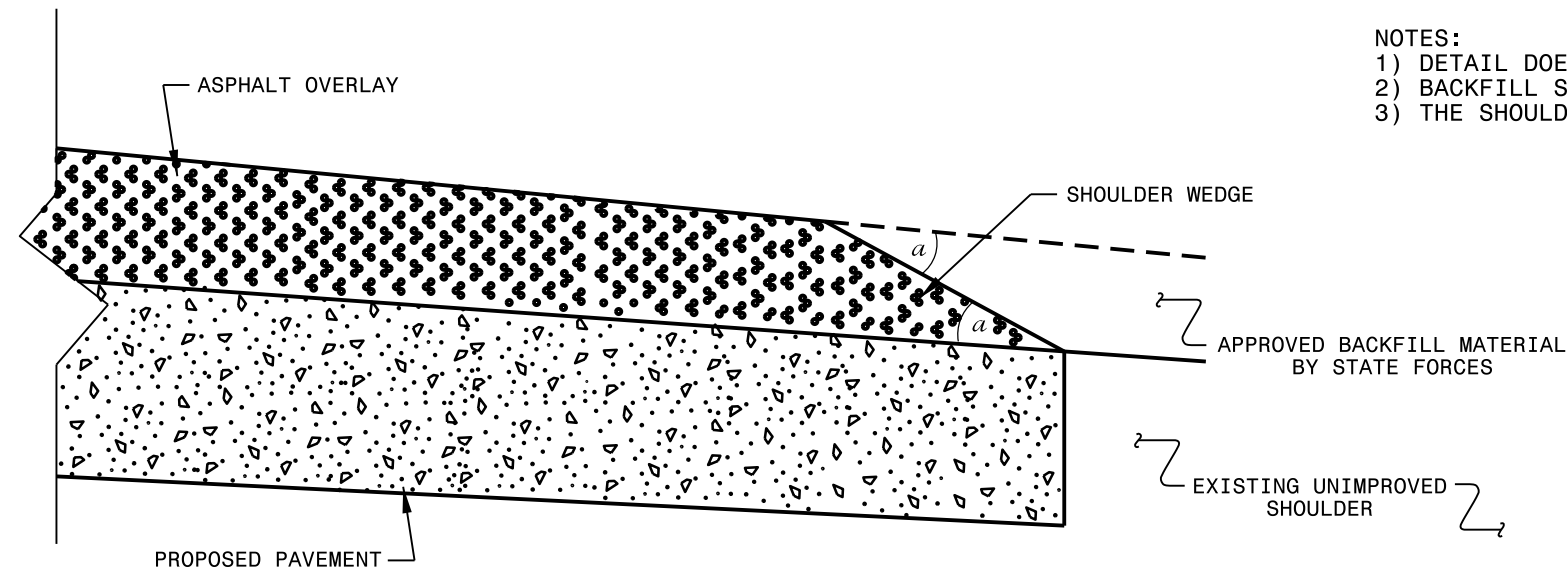
SHOULDER RECONSTRUCTION DETAIL

NOTE:

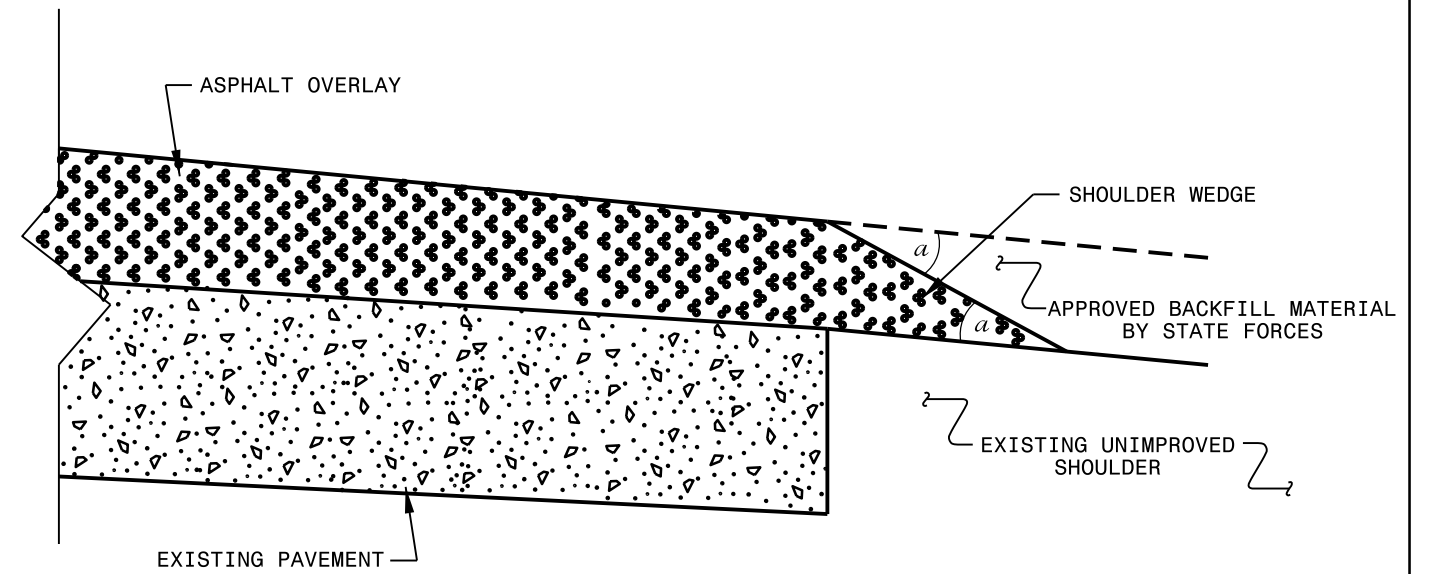
1. SHOULDERS SHALL BE RECONSTRUCTED AS SHOWN IN STD. DWG. NO. 560.01 & 560.02, WITH A MINIMUM SLOPE OF 1" PER FOOT TO ENSURE POSITIVE DRAINAGE AWAY FROM THE ROADWAY.
2. A VEGETATIVE BUFFER SHALL BE MAINTAINED BETWEEN THE DISTURBED AREA ALONG THE EDGE OF PAVEMENT AND THE DITCH SHOULDER POINT TO MINIMIZE EROSION. PULLING DITCHES OR CUTTING SHOULDERS TO GENERATE BORROW MATERIAL WILL NOT BE ALLOWED.
3. REQUIRED BORROW MATERIAL MAY BE OBTAINED FROM NCDOT STOCKPILES. ANY EXCESS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR IN AN APPROVED DISPOSAL SITE.

NOTES:

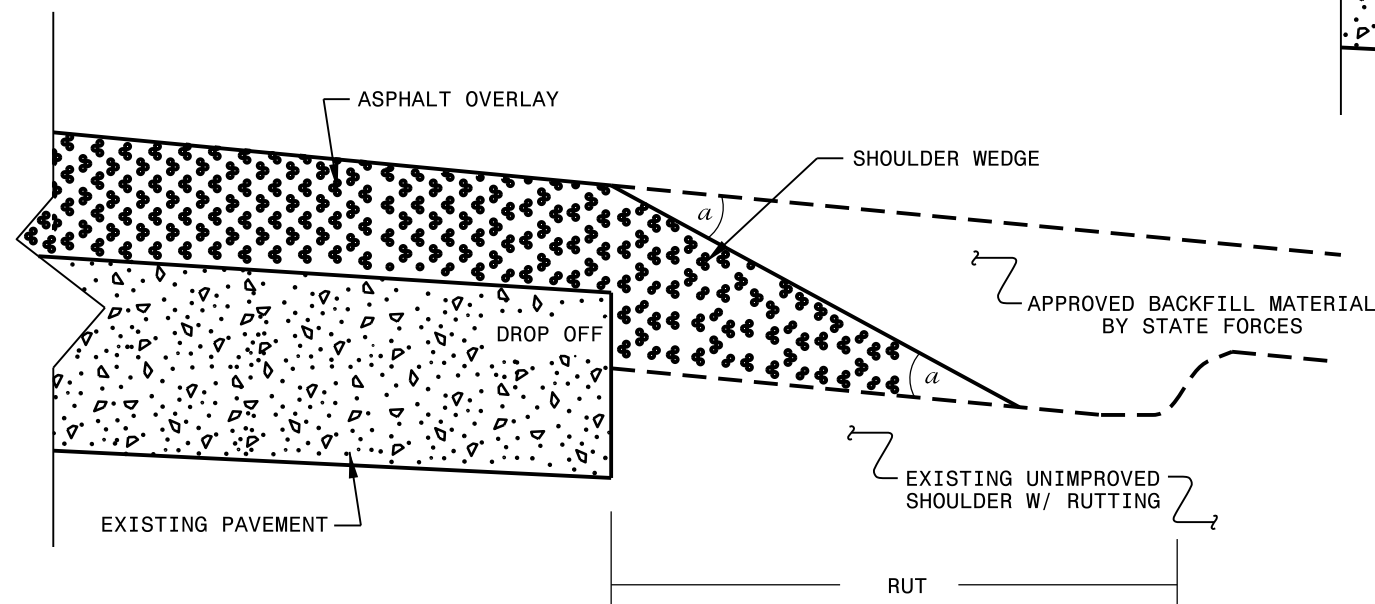
- 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
- 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
- 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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°

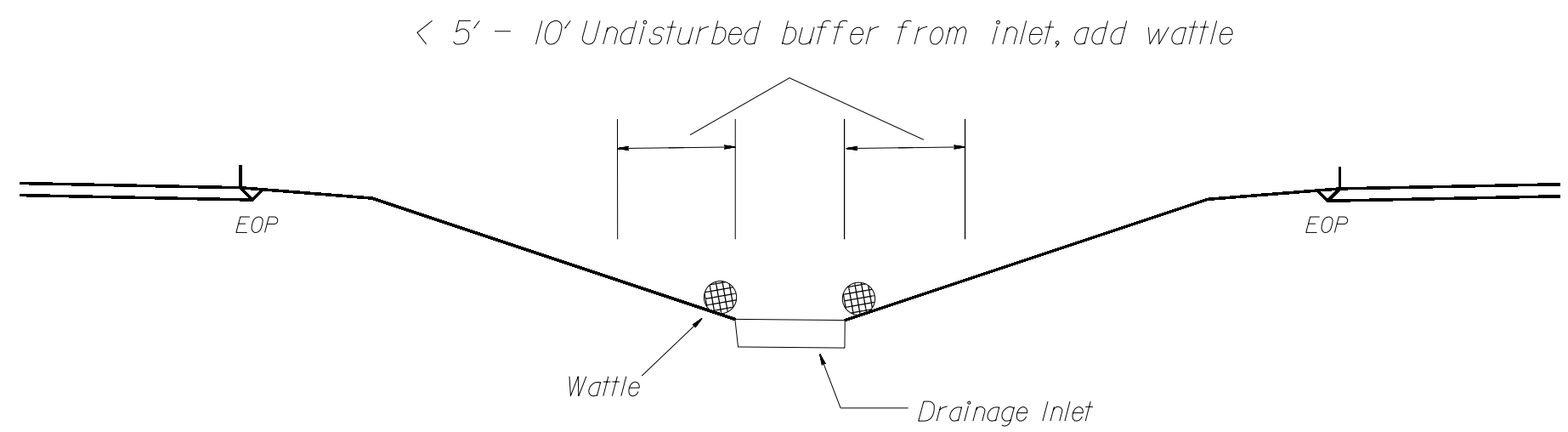
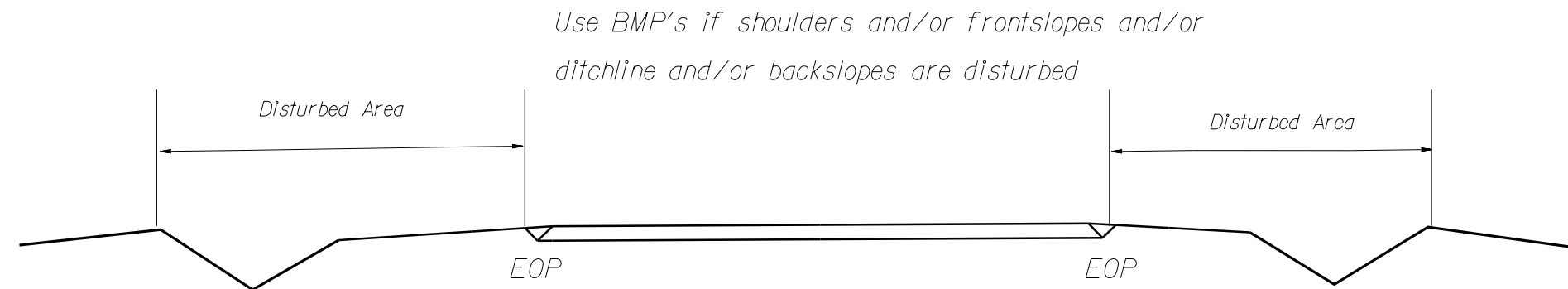
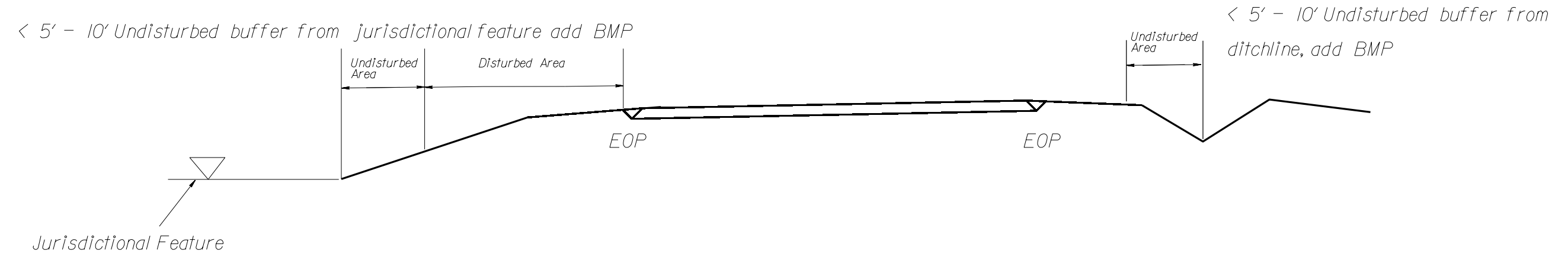
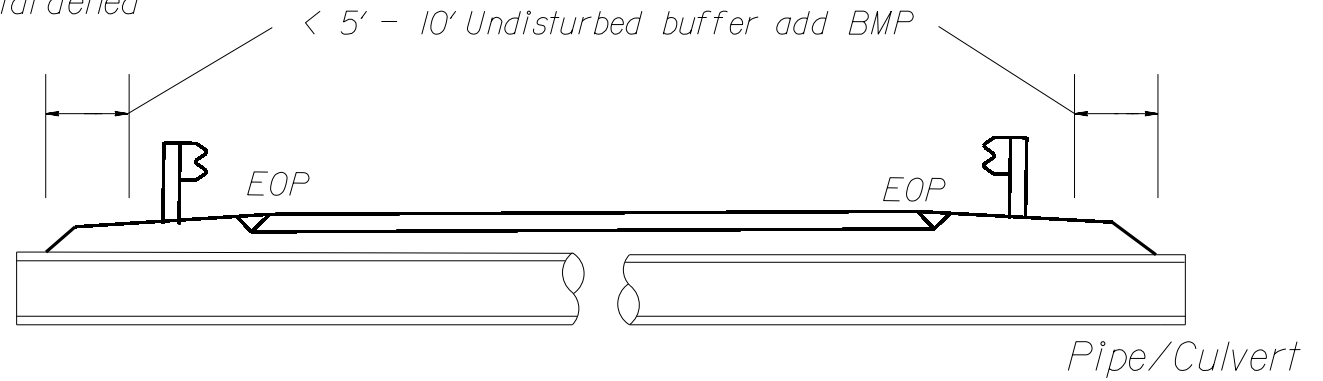
CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950 FAX 919-250-4119	
SHOULDER WEDGE DETAILS	
ORIGINAL BY: T.SPELL	DATE: 7-19-11
MODIFIED BY:	DATE: 10/16/12
CHECKED BY:	DATE:
FILE SPEC.: szusr/details/stand/shoulderwedgedetail.dgn	

24-MAR-2016 11:46
 S:\Contracts\Resurfacing Projects\Shoulder Wedge Details\Revised Shoulder Wedge Detail.dgn
 *****USERNAME*****

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

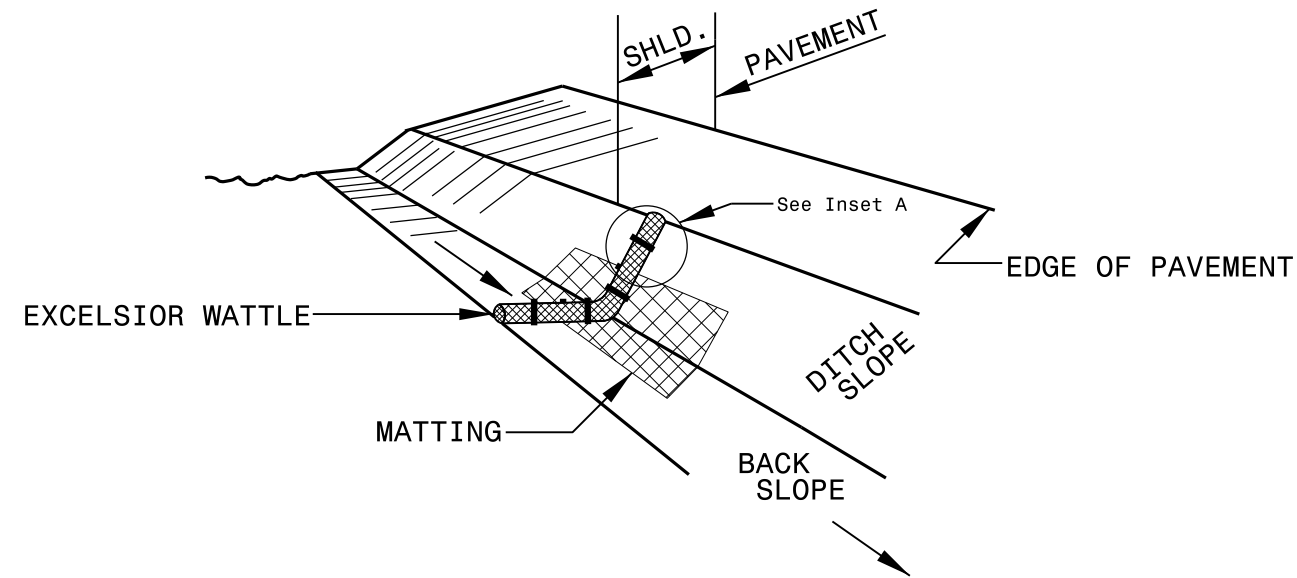
EROSION CONTROL DETAIL

BMP Options: Wattle, Silt Fence or Hardened Aggregate.

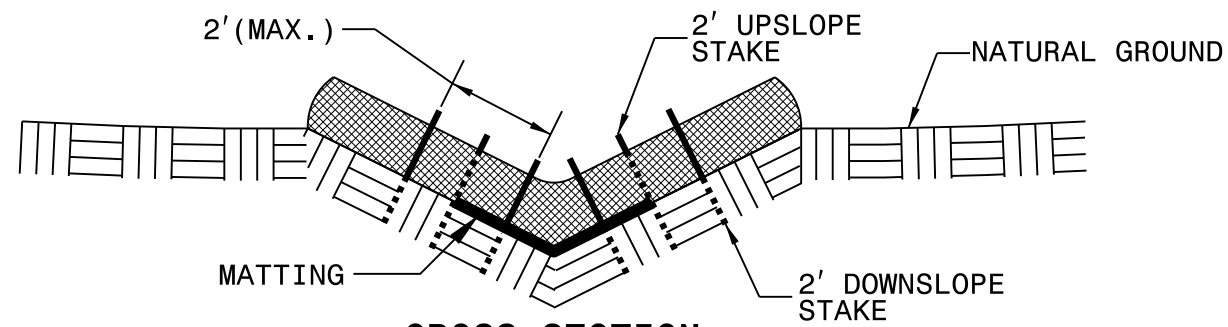


NOT TO SCALE

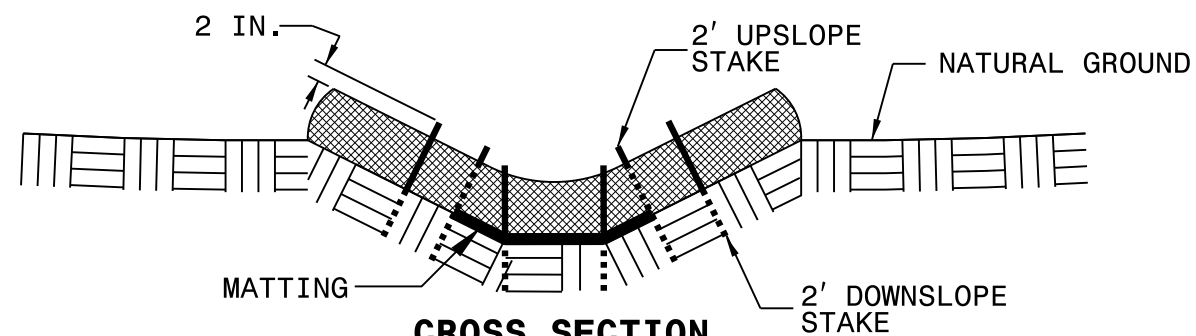
WATTLE DETAIL



ISOMETRIC VIEW



**CROSS SECTION
VEE DITCH**



**CROSS SECTION
TRAPEZOIDAL DITCH**

NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

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

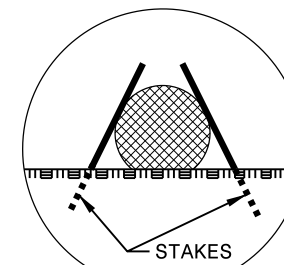
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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

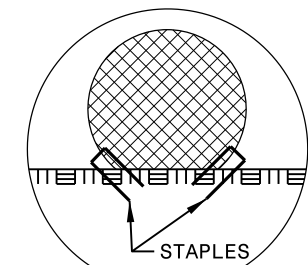
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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

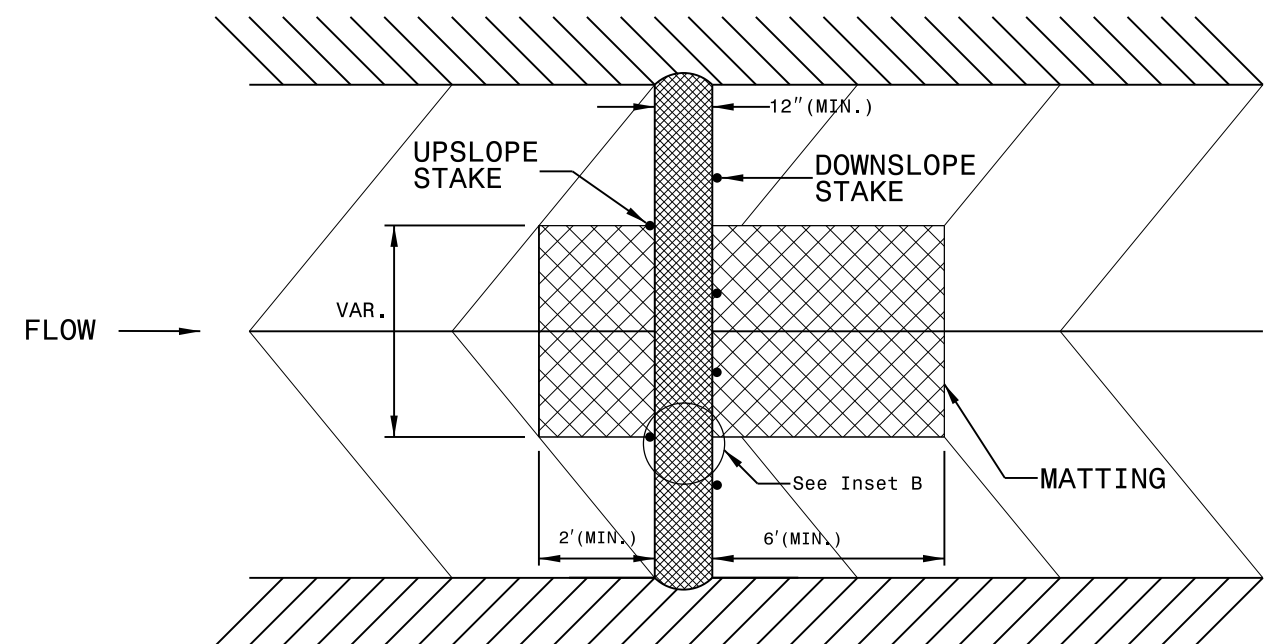
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



INSET A



INSET B



TOP VIEW

NOT TO SCALE

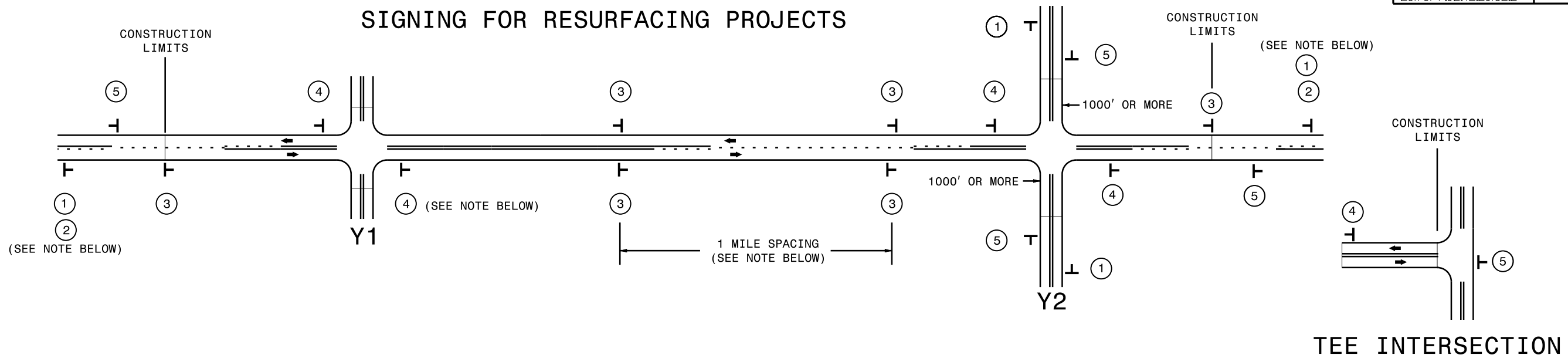
SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	HAULING NCDOT SUPPLIED SHOULDER MATERIAL EA	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	INCIDENTAL MILLING SY	BASE COURSE, B25.0B TONS	SURFACE COURSE, SF9.5A TONS	ASPHALT BINDER FOR PLANT MIX TONS	6" DRIVEWAYS SY	TEMPORARY SILT FENCE LF	WATTLE LF	SEED & MULCHING AC	RESPONSE FOR EROSION CONTROL EA
2017CPT.02.41.20161.2	Carteret	5	SR 1241	WIDEN & RESURFACE	2	2	2WU	NO	NO	0.583	20	50	50	1.17	1,100	443	797	73	100	100	50	1.02	2
TOTAL FOR MAP NO. 5										0.583		50	50	1.17	1,100	443	797	73	100	100	50	1.02	2
TOTAL FOR PROJ NO. 2017CPT.02.41.20161.2										0.583		50	50	1.17	1,100	443	797	73	100	100	50	1.02	2
2017CPT.02.42.20162.2	Carteret	1	SR 1106	RESURFACING & SHOULDER RECONSTRUCTION	1	2	2WU	NO	NO	1.661	18		5				1,200	80					
TOTAL FOR MAP NO. 1										1.661			5				1,200	80					
2017CPT.02.42.20162.2	Carteret	2	SR 1264	RESURFACING & SHOULDER RECONSTRUCTION	1	2	2WU	NO	NO	0.448	20		5				300	20					
TOTAL FOR MAP NO. 2										0.448			5				300	20					
2017CPT.02.42.20162.2	Carteret	3	SR 1114	RESURFACING & SHOULDER RECONSTRUCTION	1	2	2WU	NO	NO	1.085	20		5				700	47					
TOTAL FOR MAP NO. 3										1.085			5				700	47					
2017CPT.02.42.20162.2	Carteret	4	SR 1785	RESURFACING	3	2	2WU	NO	NO	0.127	20						100	7					
TOTAL FOR MAP NO. 4										0.127							100	7					
TOTAL FOR PROJ NO. 2017CPT.02.42.20162.2										3.321			15				2,300	154					
GRAND TOTAL										3.904		50	65	1.17	1,100	443	3,097	227	100	100	50	1.02	2

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E	4457000000-N
										WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL
										SF	LS
2017CPT.02.41.20161.2	Carteret	5	SR 1241	WIDEN & RESURFACE	2	2	2WU	0.583	20	75	0.16
TOTAL FOR MAP NO. 5								0.583		75	0.16
TOTAL FOR PROJ NO. 2017CPT.02.41.20161.2								0.583		75	0.16
2017CPT.02.42.20162.2	Carteret	1	SR 1106	RESURFACING & SHOULDER RECONSTRUCTION	1	2	2WU	1.661	18	190	0.42
TOTAL FOR MAP NO. 1								1.661		190	0.42
2017CPT.02.42.20162.2	Carteret	2	SR 1264	RESURFACING & SHOULDER RECONSTRUCTION	1	2	2WU	0.448	20	50	0.11
TOTAL FOR MAP NO. 2								0.448		50	0.11
2017CPT.02.42.20162.2	Carteret	3	SR 1114	RESURFACING & SHOULDER RECONSTRUCTION	1	2	2WU	1.085	20	125	0.27
TOTAL FOR MAP NO. 3								1.085		125	0.27
2017CPT.02.42.20162.2	Carteret	4	SR 1785	RESURFACING	3	2	2WU	0.127	20	15	0.04
TOTAL FOR MAP NO. 4								0.127		15	0
TOTAL FOR PROJ NO. 2017CPT.02.42.20162.2								3.321		380	1
GRAND TOTAL								3.904		455	1

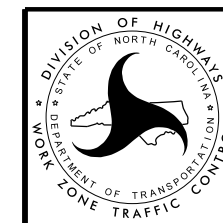
SIGNING FOR RESURFACING PROJECTS



MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION		<p>PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</p> <p>#2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)</p>	<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS <p>WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>W20-1 48" X 48"</p> </div> <div style="text-align: center;"> <p>W20-7 A 48" X 48"</p> </div> </div> <p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p>
		<ul style="list-style-type: none"> - 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. 	
		<ul style="list-style-type: none"> - 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. 	
		<p>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.</p>	



RESURFACING
 ADVANCE WARNING SIGNS
 FOR
 RURAL AND SUBURBAN
 2 LANE ROADWAYS