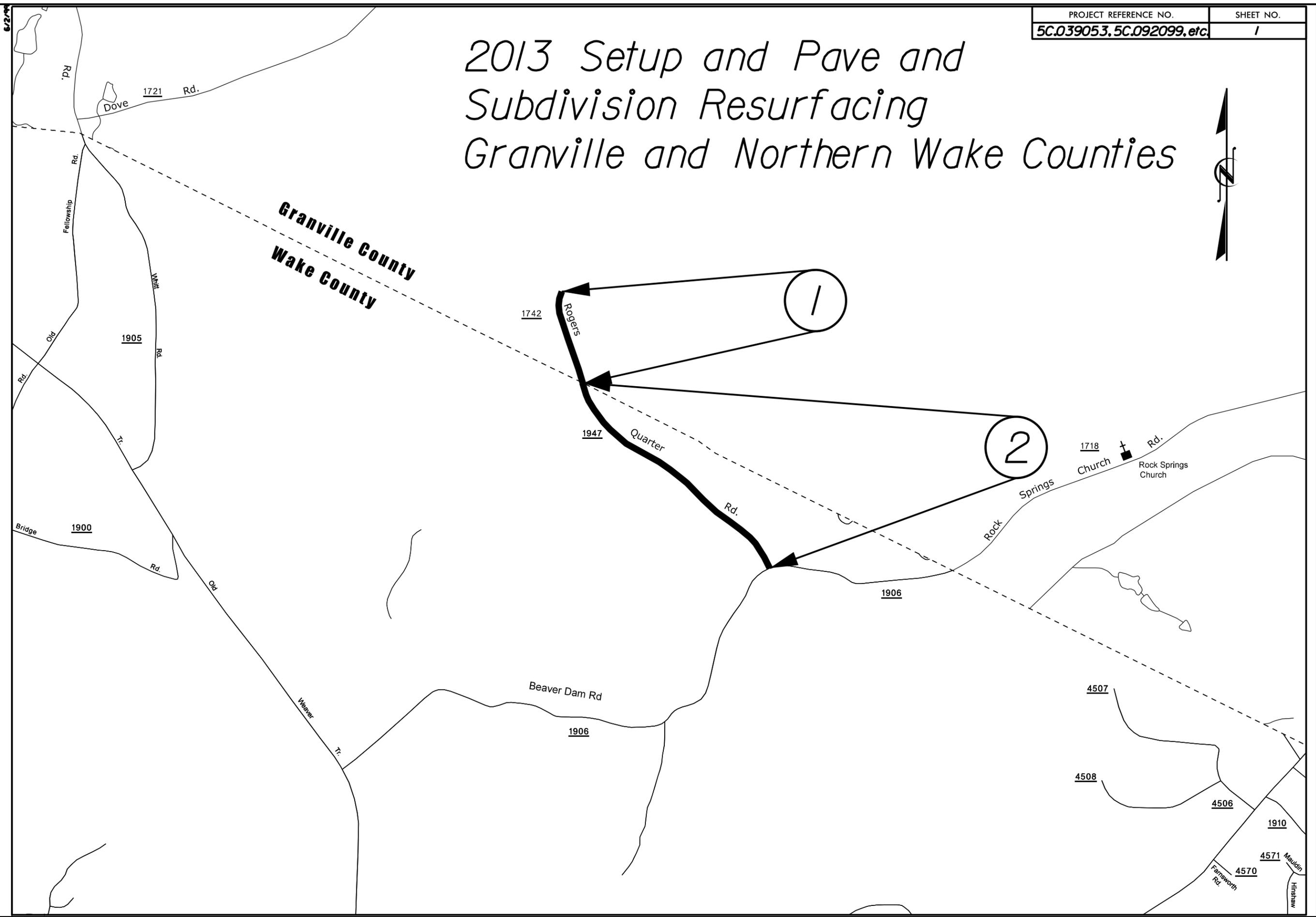
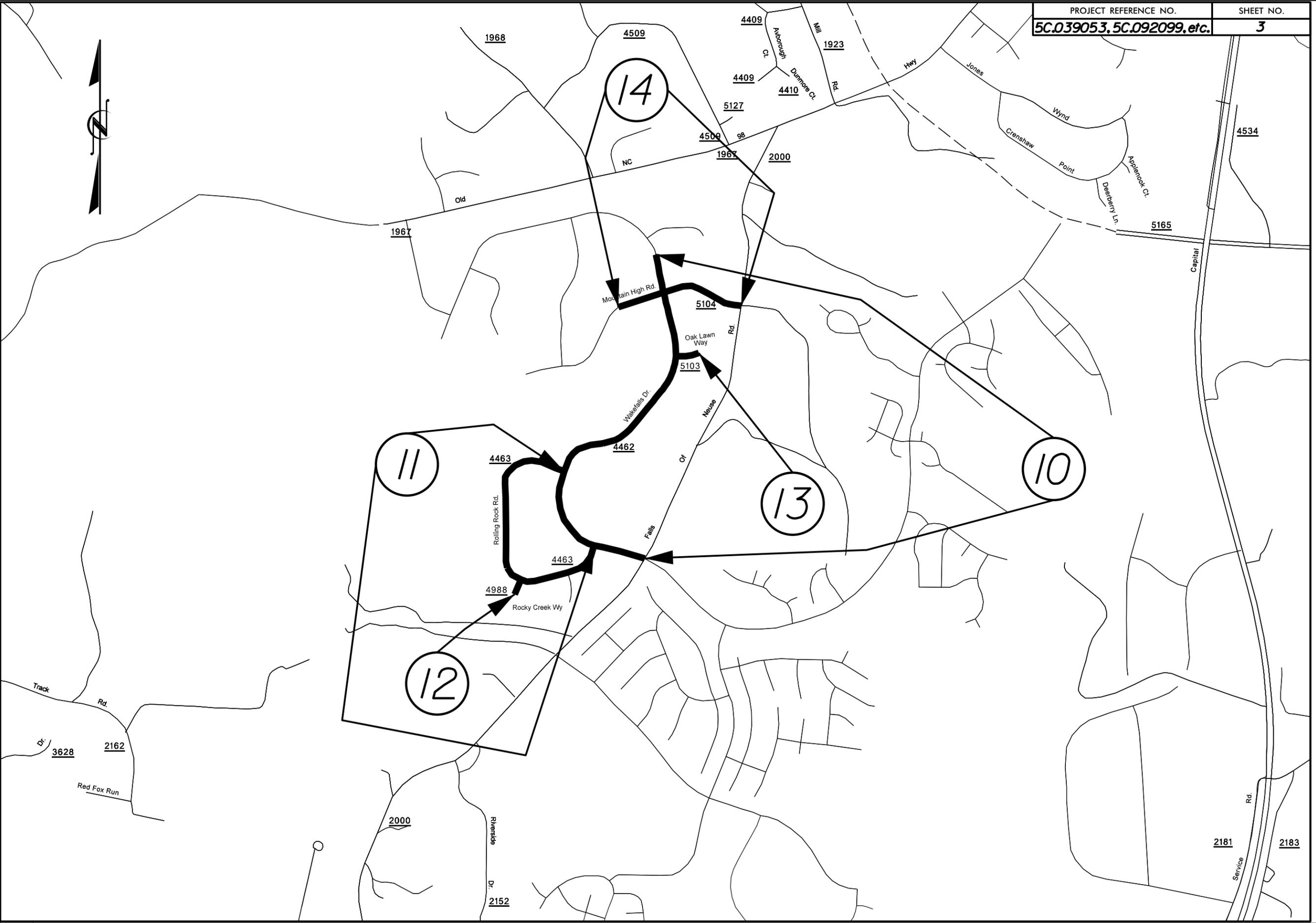


# 2013 Setup and Pave and Subdivision Resurfacing Granville and Northern Wake Counties





6/2/99



14

11

13

10

12

6/2/99

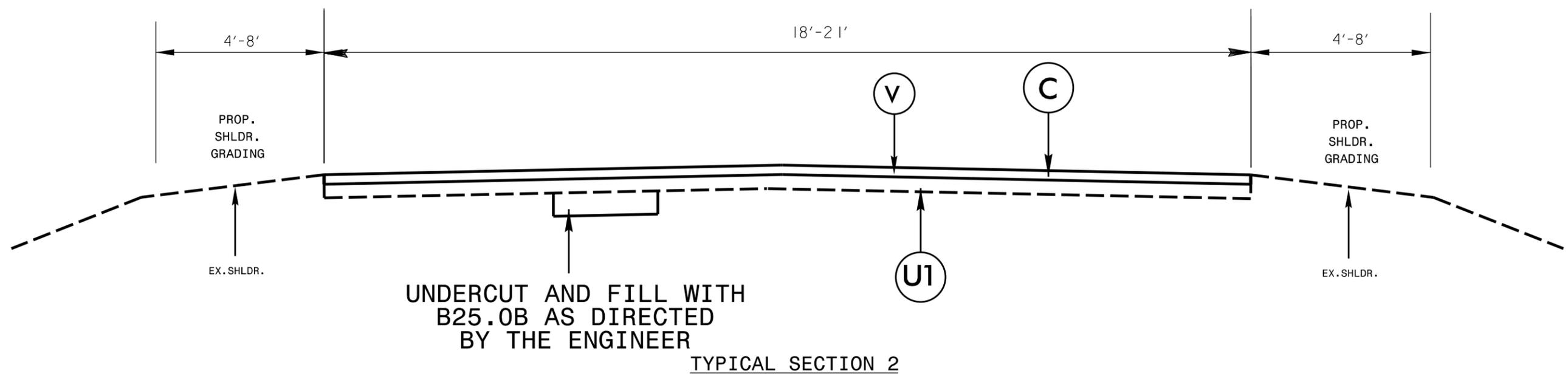
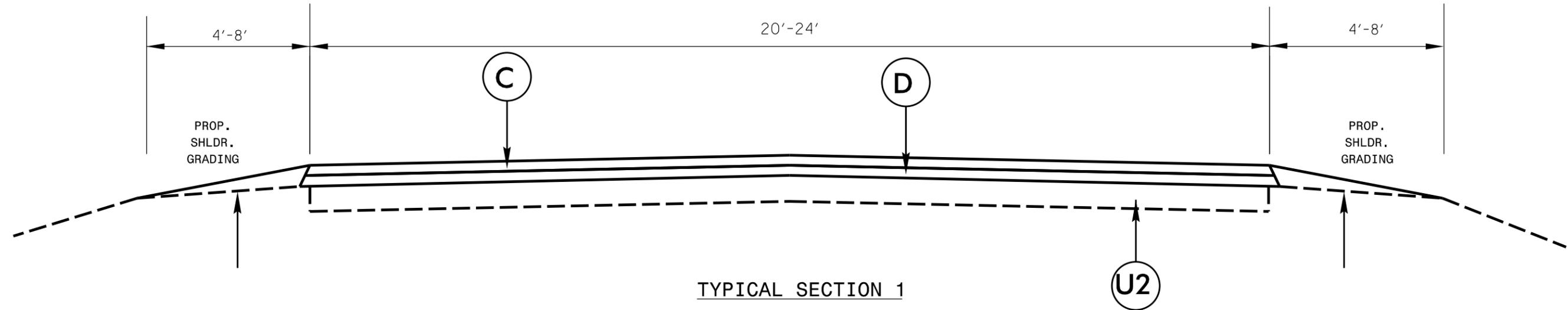
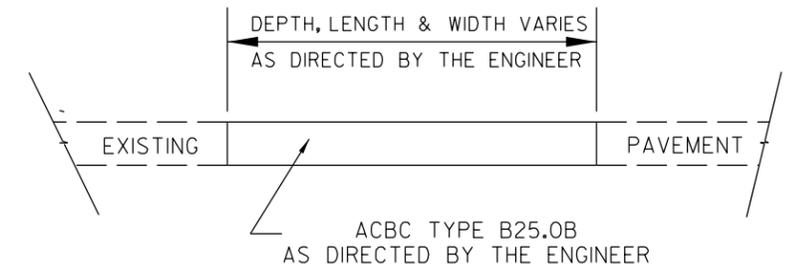
# PAVEMENT SCHEDULE

C	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
D	2½" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
U1	EXISTING PAVEMENT AND SUBGRADE
U2	EXISTING ABC TO BE CONDITIONED AND SHAPED
V	1½" MILLING

## NOTES

ALL UNPAVED S.R. ROADS TO BE RESURFACED 50' FROM EDGE OF PAVEMENT OF MAIN PROJECT  
 ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII, OR AS DIRECTED BY THE ENGINEER.  
 PAVEMENT WIDENING AND INTERSECTIONS INCLUDED IN THE TABLE OF QUANTITIES.

PROJECT REFERENCE NO. <b>5C.039053, 5C.092099, etc.</b>	SHEET NO. <b>4</b>
--	-----------------------



UNDERCUT AND FILL WITH  
 B25.0B AS DIRECTED  
 BY THE ENGINEER

PROJECT NO.	SHEET NO.	TOTAL NO.
5C.039053, 5C.092099		
5C.092146,		

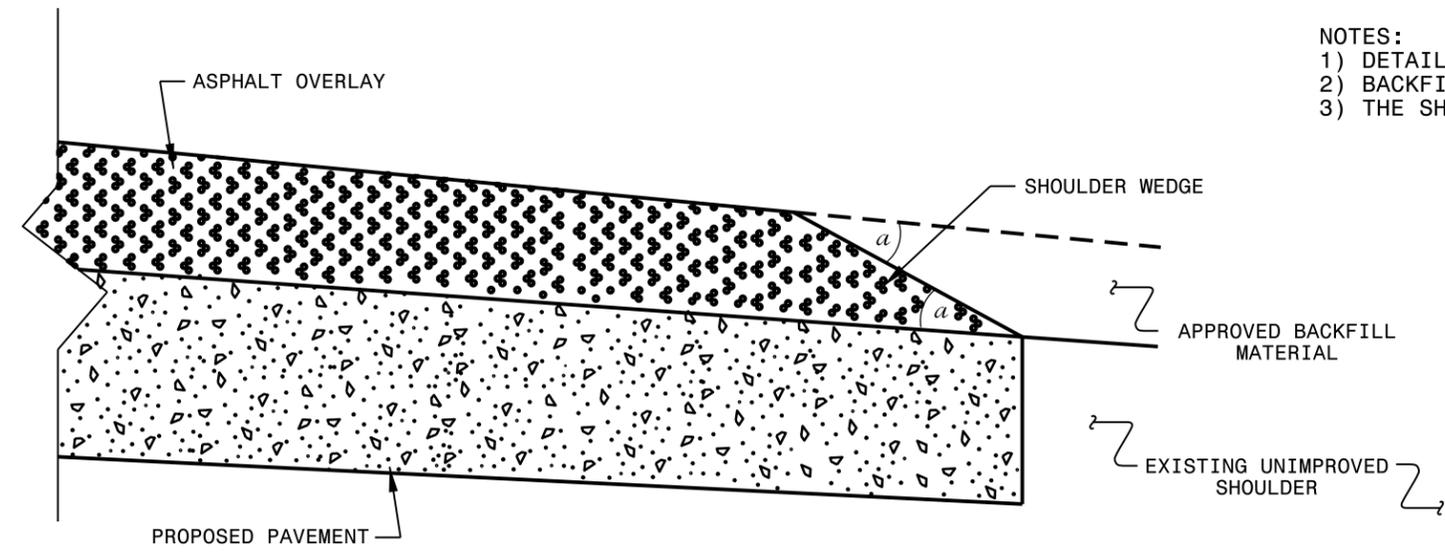
### SUMMARY OF QUANTITIES

PROJECT NO.	COUNTY	MAP NO.	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	UNDERCUT EXCAVATION CY	BORROW CY	REPAIR EXISTING AGGREGATE BASE COURSE TON	SHOULDER GRADING SMI	CONDITIONING EXISTING BASE MSY	INCIDENTAL STONE BASE TONS	1/2" MILLING SY	BASE COURSE, B25.0B TONS	INTER-MEDIATE COURSE, I19.0B TONS	SURFACE COURSE, SF9.5A TON	ASPHALT BINDER FOR PLANT MIX TON	PATCHING EXISTING PAVEMENT TONS	ADJUST MANHOLES EA	ADJUST METER OR VALVE BOX EA	TEMPORARY SILT FENCE LF	WATTLE LF	SEED & MULCHING AC	
5C.039053	Granville	1	SR 1742 - ROGERS QUARTER RD	SR 1947 - ROGERS QUARTER RD TO CDS		1	2	NO	NO	0.19	20		101	1	0.38	3	19		420	242	36							0.28	
			<b>TOTAL FOR MAP NO. 1</b>							0.19			101	1	0.38	3	19		420	242	36							0.28	
			<b>TOTAL FOR PROJ NO. 5C.039053</b>							0.19			101	1	0.38	3	19		420	242	36							0.28	
5C.092099	Wake	2	SR 1947 - ROGERS QUARTER ROAD	SR 1906 - BEAVER DAM RD TO SR 1742 - ROGERS QUARTER RD		1	2	NO	NO	0.72	20		384	1	1.44	8	72		1,338	771	116							1.04	
			<b>TOTAL FOR MAP NO. 2</b>							0.72			384	1	1.44	8	72		1,338	771	116							1.04	
			<b>TOTAL FOR PROJ NO. 5C.092099</b>							0.72			384	1	1.44	8	72		1,338	771	116							1.04	
5C.092146	Wake	3	SR 3499 - GLENFIDDICH WAY	SR 1834 - NORWOOD RD		2	2	NO	NO	0.746	21		148		1.49		75	8,659	160		873	66	16	3		107	270	1.08	
			<b>TOTAL FOR MAP NO. 3</b>							0.746			148		1.49		75	8,659	160		873	66	16	3		107	270	1.08	
5C.092146	Wake	4	SR 4202 - GLENLIVET WAY	CDS TO CDS		2	2	NO	NO	0.37	21		4	74	0.74		37	4,868	80		464	35	8	2		54	140	0.54	
			<b>TOTAL FOR MAP NO. 4</b>							0.37			4	74	0.74		37	4,868	80		464	35	8	2		54	140	0.54	
5C.092146	Wake	5	SR 4201 - GALWAY DR	SR 3499 - GLENFIDDICH WAY TO CDS		2	2	NO	NO	0.235	20		3	47	0.47		24	3,104	50		283	21	5	1		34	90	0.34	
			<b>TOTAL FOR MAP NO. 5</b>							0.235			3	47	0.47		24	3,104	50		283	21	5	1		34	90	0.34	
5C.092146	Wake	6	SR 4200 - STAUNTON CT	SR 3499 - GLENFIDDICH WAY TO CDS		2	2	NO	NO	0.056	20		1	11	0.11		6	913	10		83	6	1	1	1	8	20	0.08	
			<b>TOTAL FOR MAP NO. 6</b>							0.056			1	11	0.11		6	913	10		83	6	1	1	1	8	20	0.08	
5C.092146	Wake	7	SR 4688 - SUNNYSTONE WAY	SR 1841 - VICTORY CH RD TO PVMT JT SOUTH OF JASPER LN		2	2	NO	NO	0.415	20		3	83	0.83		42	4,869	64		445	33	6	1	1	60	150	0.60	
			<b>TOTAL FOR MAP NO. 7</b>							0.415			3	83	0.83		42	4,869	64		445	33	6	1	1	60	150	0.60	
5C.092146	Wake	8	SR 4689 - JASPER LANE	SR 4688 - SUNNYSTONE WAT TO		2	2	NO	NO	0.209	18		2	42	0.42		21	2,452	32		249	18	3	1	2	30	80	0.30	
			<b>TOTAL FOR MAP NO. 8</b>							0.209			2	42	0.42		21	2,452	32		249	18	3	1	2	30	80	0.30	
5C.092146	Wake	9	SR 5674 - TERRA COTTA LN	SR 4689 - JASPER LN TO PAVEMENT JT		2	2	NO	NO	0.026	20		1	5	0.05		3	305	4		28	2	1			4	10	0.04	
			<b>TOTAL FOR MAP NO. 9</b>							0.026			1	5	0.05		3	305	4		28	2	1			4	10	0.04	
5C.092146	Wake	10	SR 4462 - WAKEFALLS DR	SR 2000 - FALLS OF NEUSE TO EOM		2	2	NO	NO	1.03	20		3	206	2.06		103	12,412	52		1,133	78	5			149	380	1.49	
			<b>TOTAL FOR MAP NO. 10</b>							1.03			3	206	2.06		103	12,412	52		1,133	78	5			149	380	1.49	
5C.092146	Wake	11	SR 4463 - ROLLING ROCK RD	SR 4462 - WAKEFALLS DR TO SR 4462 - WAKEFALLS DR		2	2	NO	NO	0.67	20		2	134	1.34		67	7,861	34		718	50	3			97	250	0.97	
			<b>TOTAL FOR MAP NO. 11</b>							0.67			2	134	1.34		67	7,861	34		718	50	3			97	250	0.97	
5C.092146	Wake	12	SR 4988 - ROCKY CR WY	SR 4463 - ROLLING ROCK RD TO CDS		2	2	NO	NO	0.04	20		1	8	0.08		4	914	2		83	6	1			6	20	0.06	
			<b>TOTAL FOR MAP NO. 12</b>							0.04			1	8	0.08		4	914	2		83	6	1			6	20	0.06	
5C.092146	Wake	13	SR 5103 - OAK LAWN WAY	SR 4462 - WAKEFALLS DR TO CDS		2	2	NO	NO	0.06	20		1	12	0.12		6	1,148	3		105	7	1			9	30	0.09	
			<b>TOTAL FOR MAP NO. 13</b>							0.06			1	12	0.12		6	1,148	3		105	7	1			9	30	0.09	
5C.092146	Wake	14	SR 5104 - MOUNTAIN HIGH RD	SR 2000 - FALLS OF NEUSE TO EOM		2	2	NO	NO	0.32	20		1	64	0.64		32	4,112	16		375	26	2			46	120	0.46	
			<b>TOTAL FOR MAP NO. 14</b>							0.32			1	64	0.64		32	4,112	16		375	26	2			46	120	0.46	
			<b>TOTAL FOR PROJ NO. 5C.092146</b>							4.177			29	834	8.35		420	51,617	507		4,839	348	52	9	4	604	1,560	6.05	
<b>GRAND TOTAL</b>										5.087			29	1,319	2	10.17	11	511	51,617	507	1,758	5,852	500	52	9	4	604	1,560	7.37

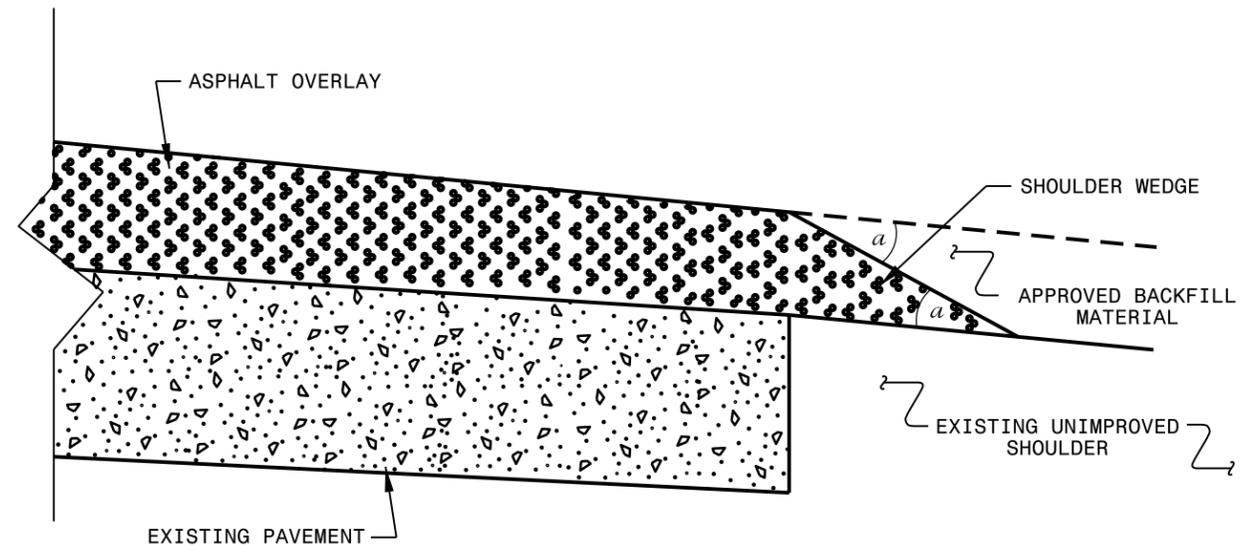
### THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO.	COUNTY	MAP NO.	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	LENGTH	WIDTH	4685000000-E 4" X 90 M WHITE THERMO LF	4686000000-E 4" X 120 M YELLOW THERMO LF	4900000000-N YELLOW & YELLOW MARKERS EA	
5C.039053	Granville	1	SR 1742 - ROGERS QUARTER RD	SR 1947 - ROGERS QUARTER RD TO CDS		1	2	0.19	20	2,044	2,006	13	
			<b>TOTAL FOR MAP NO. 1</b>					0.19		2,044	2,006	13	
			<b>TOTAL FOR PROJ NO. 5C.039053</b>					0.19		2,044	2,006	13	
5C.092099	Wake	2	SR 1947 - ROGERS QUARTER ROAD	SR 1906 - BEAVER DAM RD TO SR 1742 - ROGERS QUARTER RD		1	2	0.72	20	7,747	7,604	48	
			<b>TOTAL FOR MAP NO. 2</b>					0.72		7,747	7,604	48	
			<b>TOTAL FOR PROJ NO. 5C.092099</b>					0.72		7,747	7,604	48	
5C.092146	Wake	3	SR 3499 - GLENFIDDICH WAY	SR 1834 - NORWOOD RD		2	2	0.746	21				
			<b>TOTAL FOR MAP NO. 3</b>					0.746					
5C.092146	Wake	4	SR 4202 - GLENLIVET WAY	CDS TO CDS		2	2	0.37	21				
			<b>TOTAL FOR MAP NO. 4</b>					0.37					
5C.092146	Wake	5	SR 4201 - GALWAY DR	SR 3499 - GLENFIDDICH WAY TO CDS		2	2	0.235	20				
			<b>TOTAL FOR MAP NO. 5</b>					0.235					
5C.092146	Wake	6	SR 4200 - STAUNTON CT	SR 3499 - GLENFIDDICH WAY TO CDS		2	2	0.056	20				
			<b>TOTAL FOR MAP NO. 6</b>					0.056					
5C.092146	Wake	7	SR 4688 - SUNNYSTONE WAY	SR 1841 - VICTORY CH RD TO PVMT JT SOUTH OF JASPER LN		2	2	0.415	20				
			<b>TOTAL FOR MAP NO. 7</b>					0.415					
5C.092146	Wake	8	SR 4689 - JASPER LANE	SR 4688 - SUNNYSTONE WAT TO		2	2	0.209	18				
			<b>TOTAL FOR MAP NO. 8</b>					0.209					
5C.092146	Wake	9	SR 5674 - TERRA COTTA LN	SR 4689 - JASPER LN TO PAVEMENT JT		2	2	0.026	20				
			<b>TOTAL FOR MAP NO. 9</b>					0.026					
5C.092146	Wake	10	SR 4462 - WAKEFALLS DR	SR 2000 - FALLS OF NEUSE TO EOM		2	2	1.03	20				
			<b>TOTAL FOR MAP NO. 10</b>					1.03					
5C.092146	Wake	11	SR 4463 - ROLLING ROCK RD	SR 4462 - WAKEFALLS DR TO SR 4462 - WAKEFALLS DR		2	2	0.67	20				
			<b>TOTAL FOR MAP NO. 11</b>					0.67					
5C.092146	Wake	12	SR 4988 - ROCKY CR WY	SR 4463 - ROLLING ROCK RD TO CDS		2	2	0.04	20				
			<b>TOTAL FOR MAP NO. 12</b>					0.04					
5C.092146	Wake	13	SR 5103 - OAK LAWN WAY	SR 4462 - WAKEFALLS DR TO CDS		2	2	0.06	20				
			<b>TOTAL FOR MAP NO. 13</b>					0.06					
5C.092146	Wake	14	SR 5104 - MOUNTAIN HIGH RD	SR 2000 - FALLS OF NEUSE TO EOM		2	2	0.32	20				
			<b>TOTAL FOR MAP NO. 14</b>					0.32					
			<b>TOTAL FOR PROJ NO. 5C.092146</b>					4.177					
<b>GRAND TOTAL</b>										5.087	9,791	9,610	61

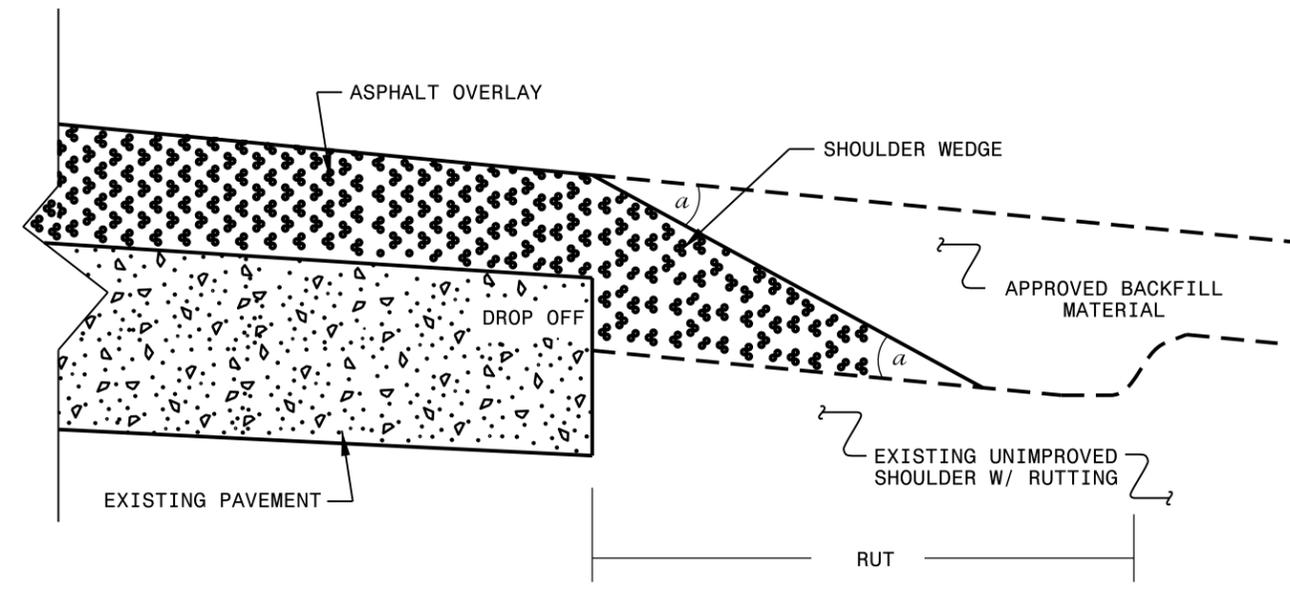
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFc AND ULTRA-THIN BONDED WEARING COURSE.
  - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
  - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



**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°

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.: susr/details/stand/shoulderwedgedetail.dgn

SYSTEMS DESIGN  
 USER NAME

**DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA**

***SOIL STABILIZATION TIMEFRAMES***

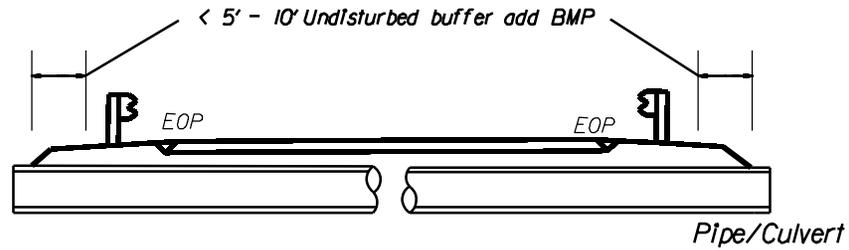
<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
<b>PERIMETER DIKES, SWALES, DITCHES AND SLOPES</b>	<b>7 DAYS</b>	<b>NONE</b>
<b>HIGH QUALITY WATER (HOW) ZONES</b>	<b>7 DAYS</b>	<b>NONE</b>
<b>SLOPES STEEPER THAN 3:1</b>	<b>7 DAYS</b>	<b>IF SLOPES ARE 10' OR LESS IN LENGTH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

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

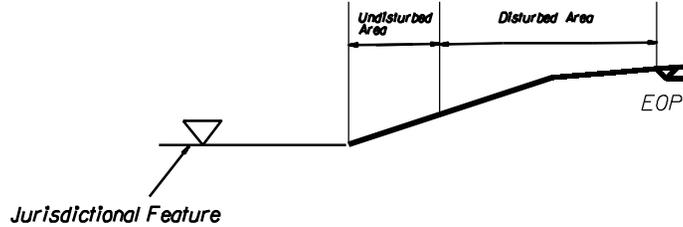
BMP Options: Wattle, Silt Fence, or Hardened Aggregate.

## EROSION CONTROL DETAIL

PROJECT NO. 1-1111	DATE 10-22-2011
DESIGNER	CHECKER
PROJECT ENGINEER	HYDRAULICS ENGINEER



< 5' - 10' Undisturbed buffer from jurisdictional feature add BMP



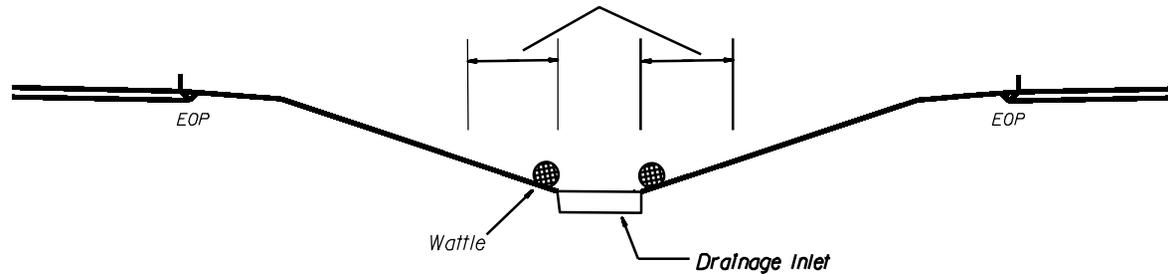
< 5' - 10' Undisturbed buffer from ditchline, add BMP



Use BMP's if shoulders and/or frontslopes and/or ditchline and/or backslopes are disturbed

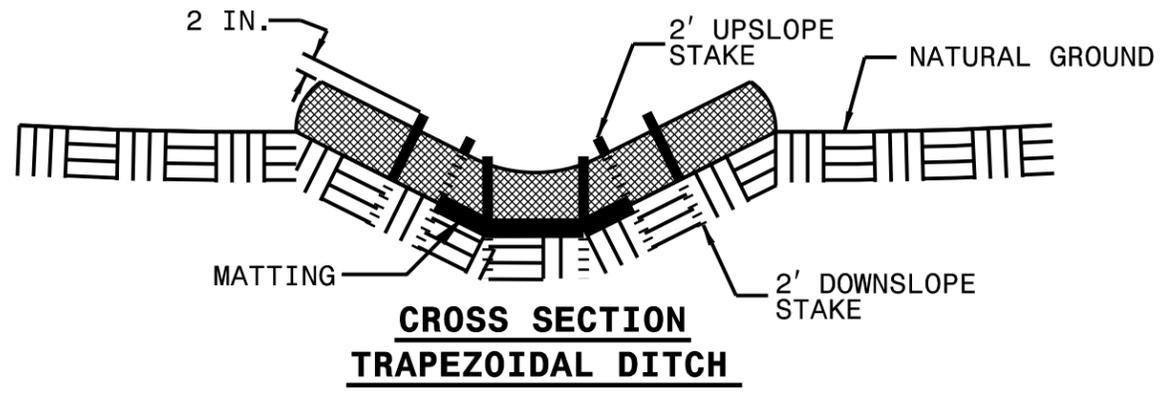
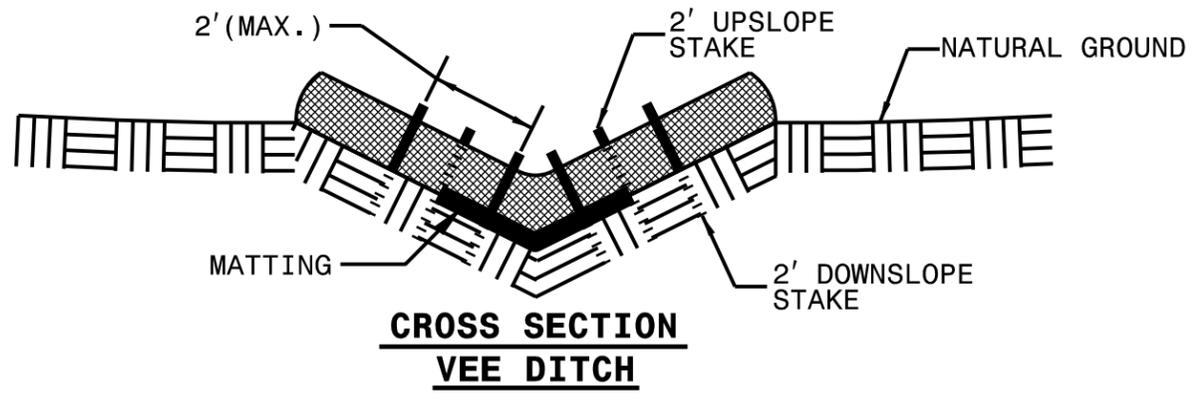
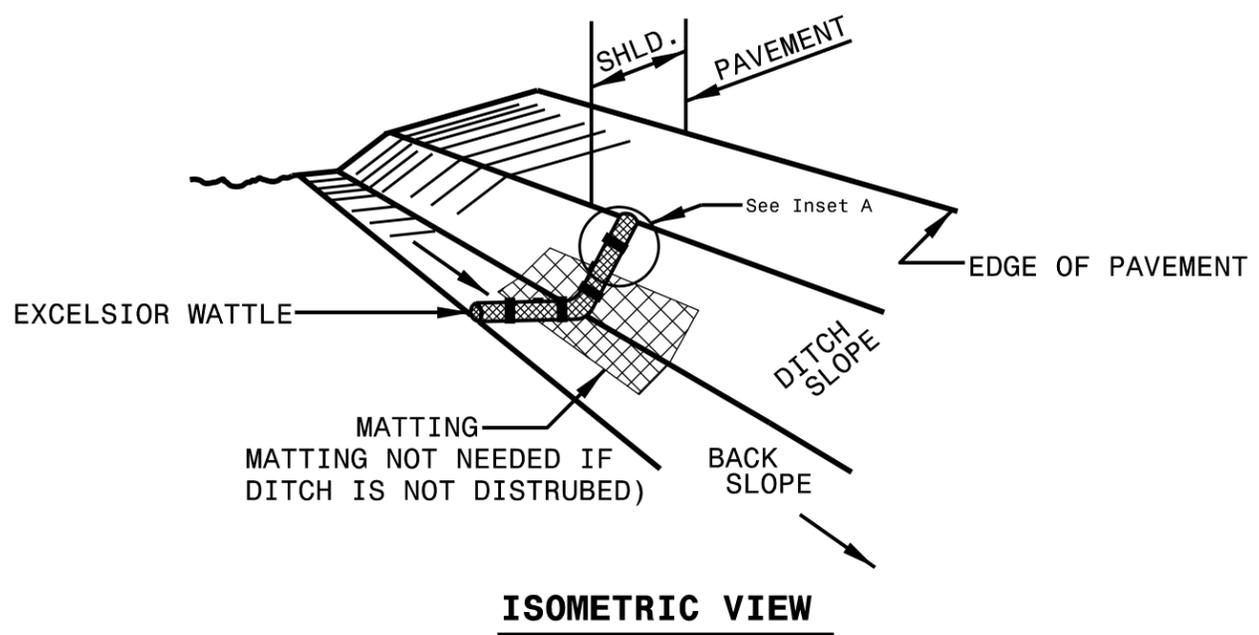


< 5' - 10' Undisturbed buffer from Inlet, add wattle



NOT TO SCALE

# WATTLE DETAIL



**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.
- IF DITCH WILL BE DISTURBED, INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

