

**TIP PROJECT: I-5760A**

**CONTRACT: DC00268**

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**NEW HANOVER COUNTY**

**LOCATION: I-140 FROM US 421 (DAN CAMERON BRIDGE) TO 0.64 MILES EAST OF I-40 INTERCHANGE [MM 14.92 TO MM 21.00] & 5 RAMPS**

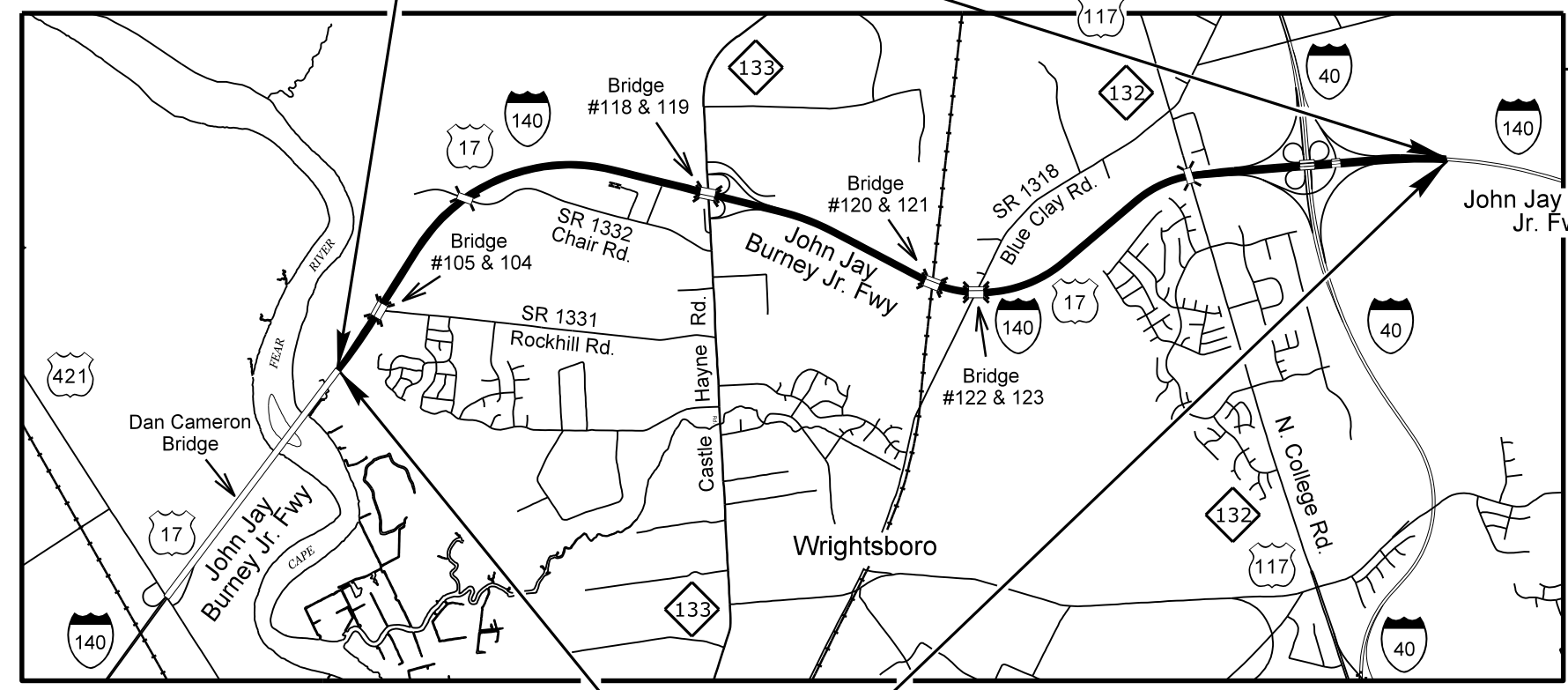
**TYPE OF WORK: OPEN GRADED ASPHALT FRICTION COURSE (OGAFC), MILLED RUMBLE STRIPS & GUARDRAIL REPLACEMENT**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5760A	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
52038.3.2		CONST.	



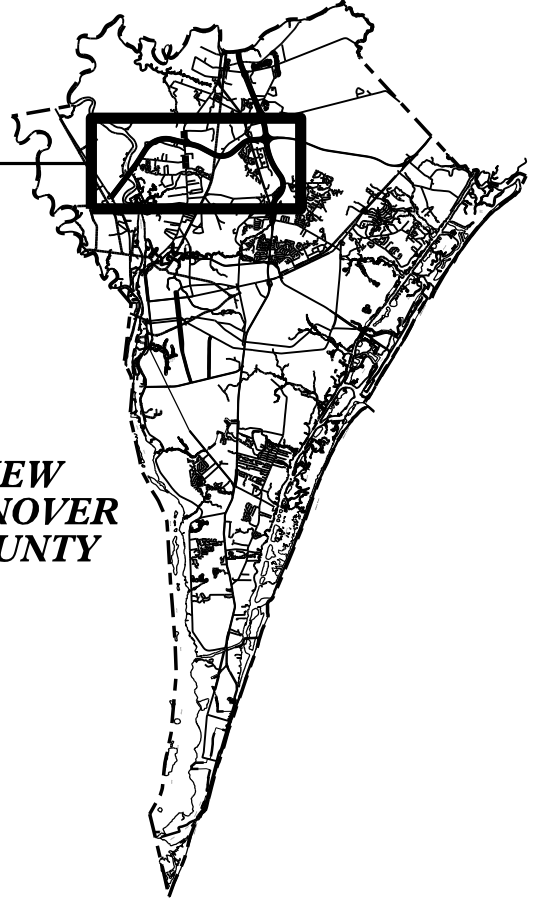
I-140 WBL  
John Jay Burney Jr. Fwy.

2



1

I-140 EBL  
John Jay Burney Jr. Fwy.



**NEW HANOVER COUNTY**

**PROJECT LENGTH**  
 MAP NO. 1 - I-140 (EB) &  
 MAP NO. 2 - I-140 (WB) = 6.08 MI.  
**TOTAL LENGTH OF PROJECT = 6.08 MI.**

Prepared In the Office of:  
**DIVISION OF HIGHWAYS**  
 5501 Barbados Blvd., Castle Hayne, NC 28429

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2018 STANDARD SPECIFICATIONS

**RIGHT OF WAY DATE:**

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**LETTING DATE:**  
 NOVEMBER 7, 2019

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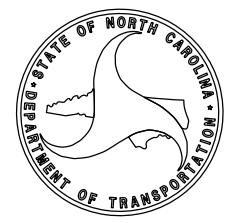
**LYDIA McKEEL, PE**  
 PROJECT ENGINEER

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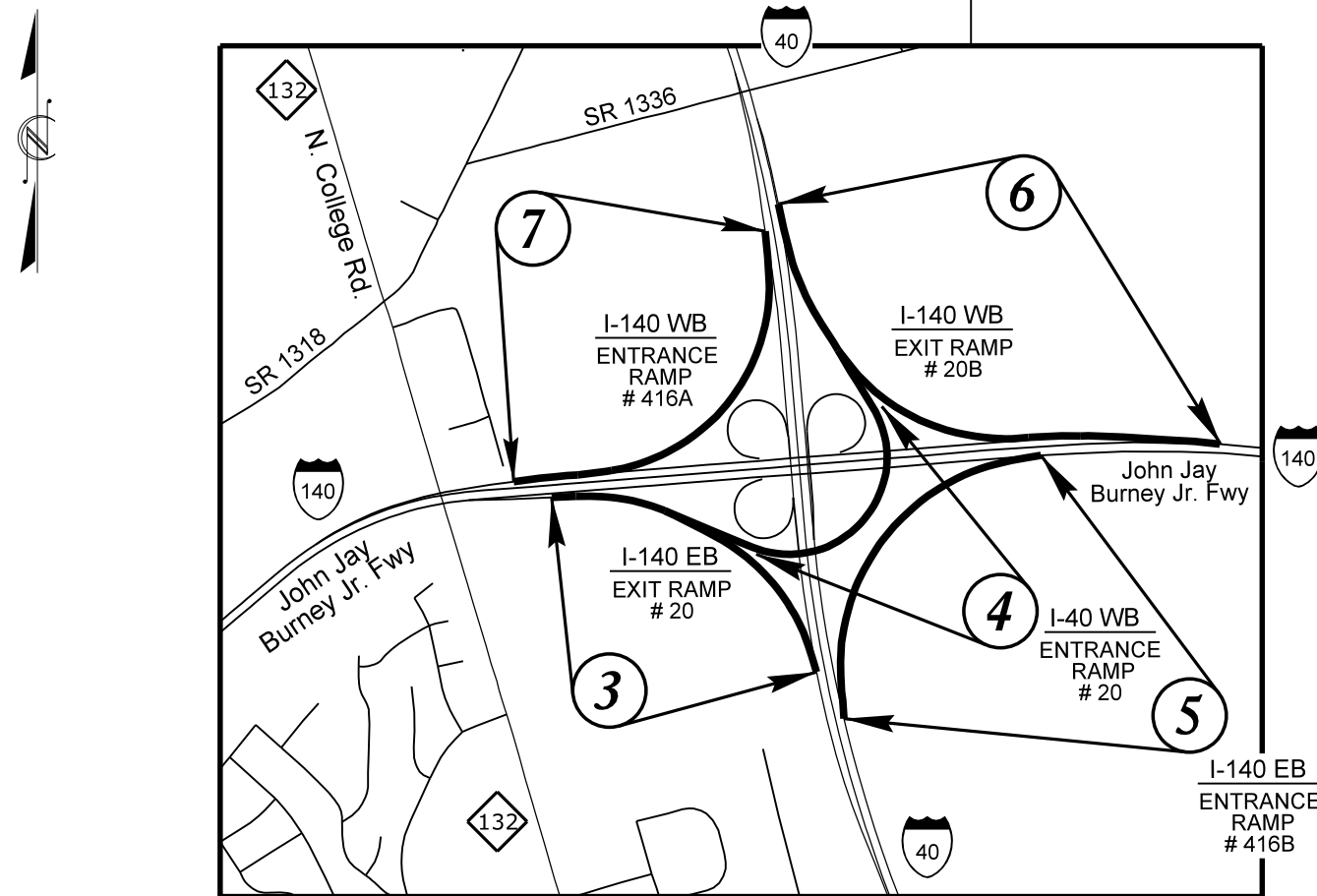
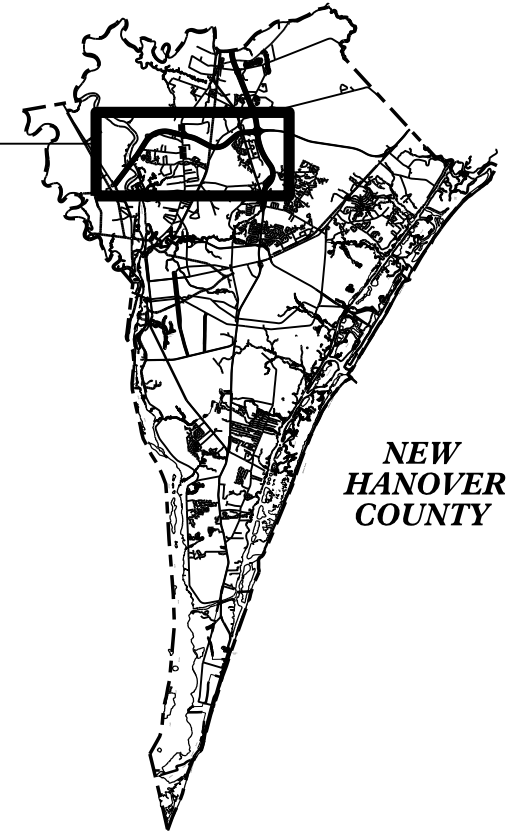
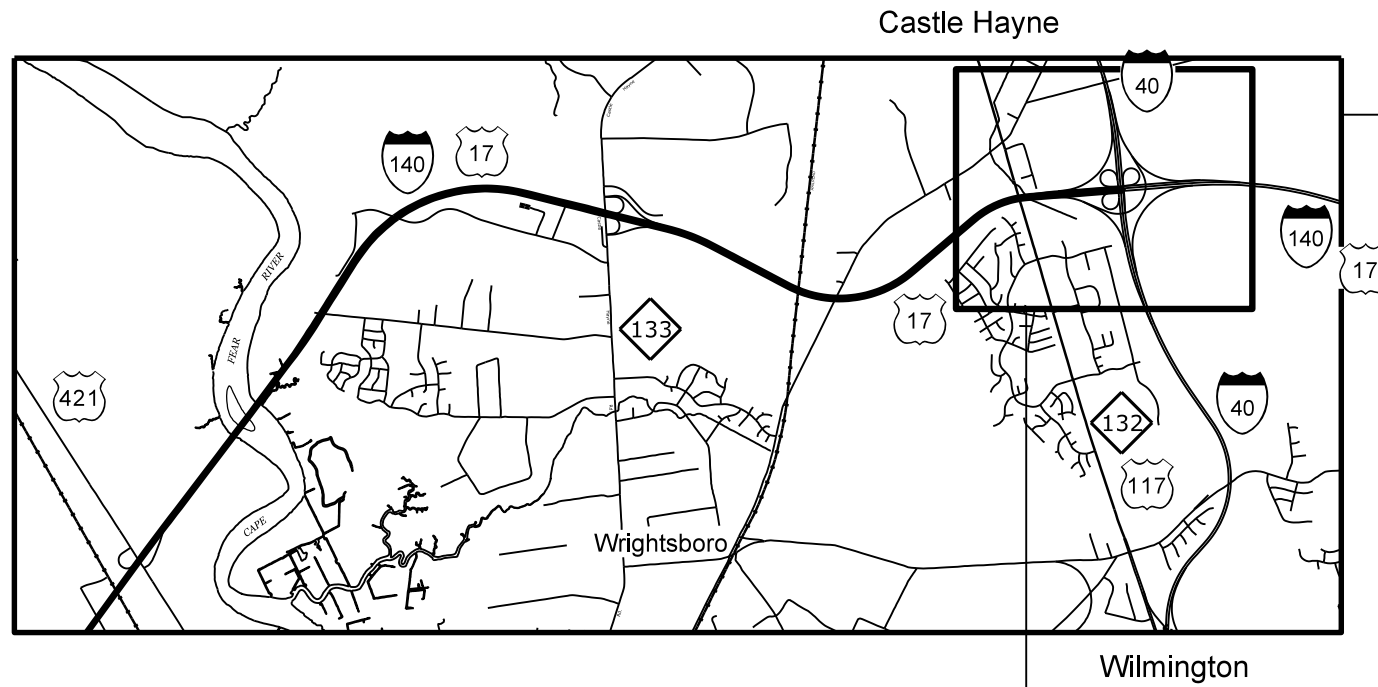
**MARY KIMMEL**  
 PROJECT DESIGN TECHNICIAN

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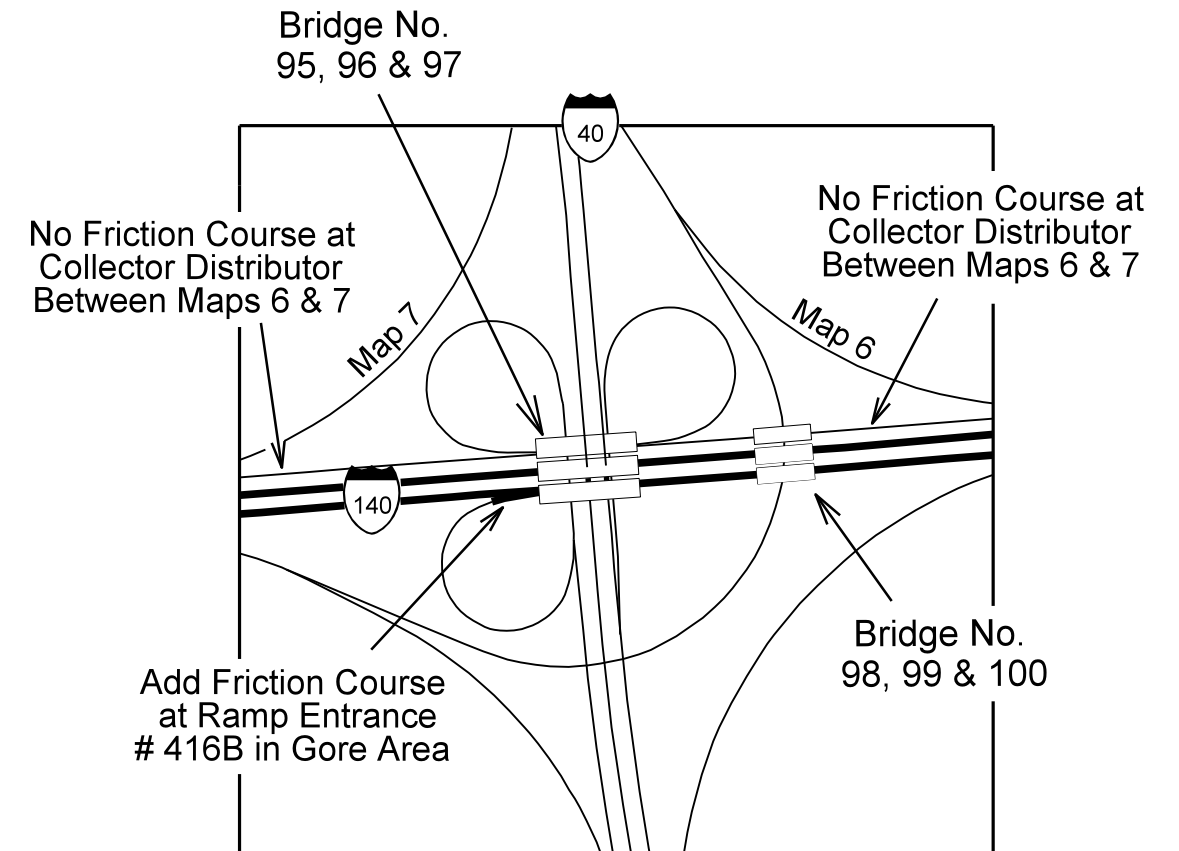
**O'NEAL HILL**  
 PROJECT DESIGN TECHNICIAN



# NEW HANOVER COUNTY - CONT.

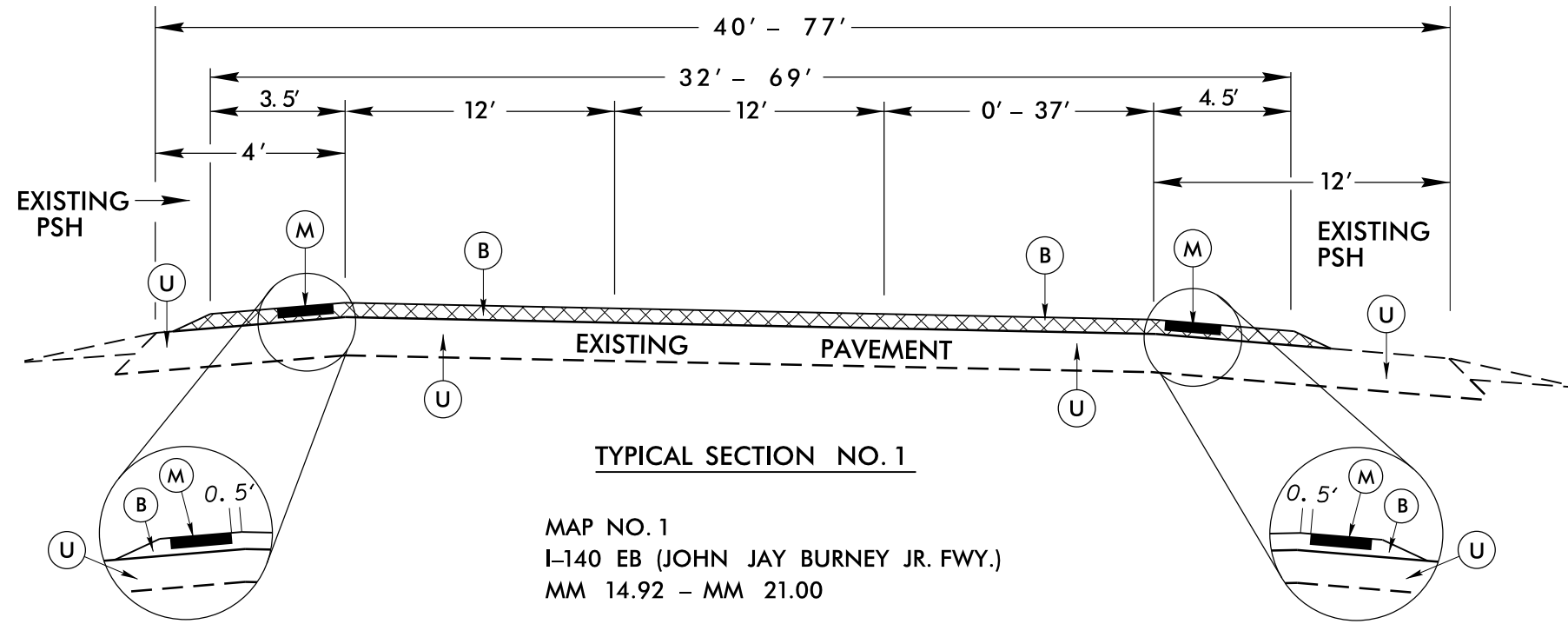


**HIGH SPEED RAMPS  
RECEIVING FRICTION COURSE  
(OGAFC)**



REVISIONS

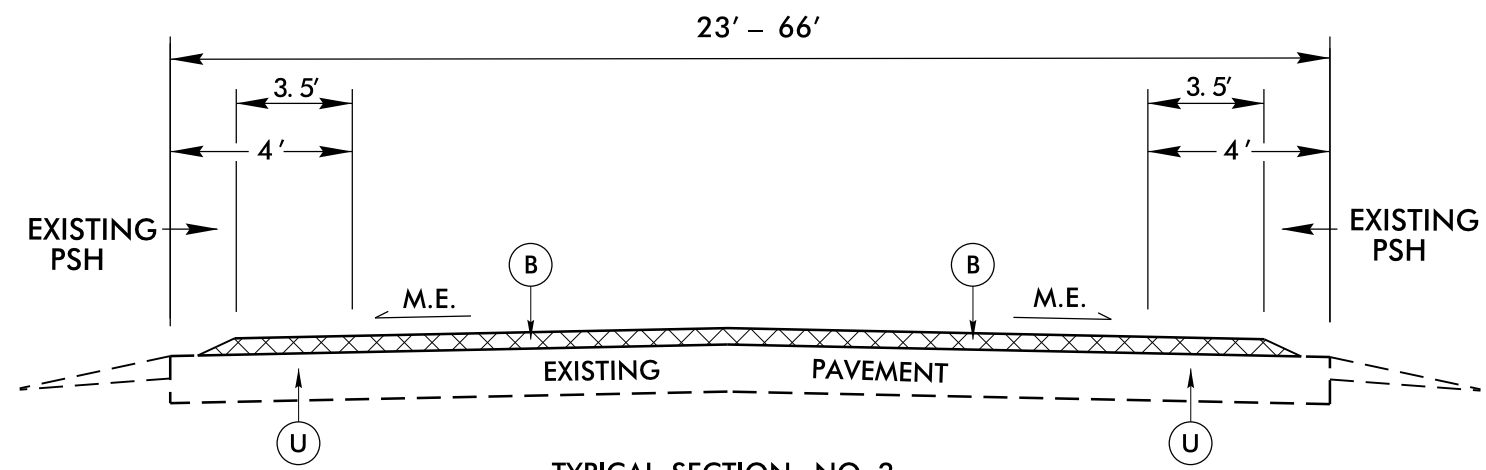
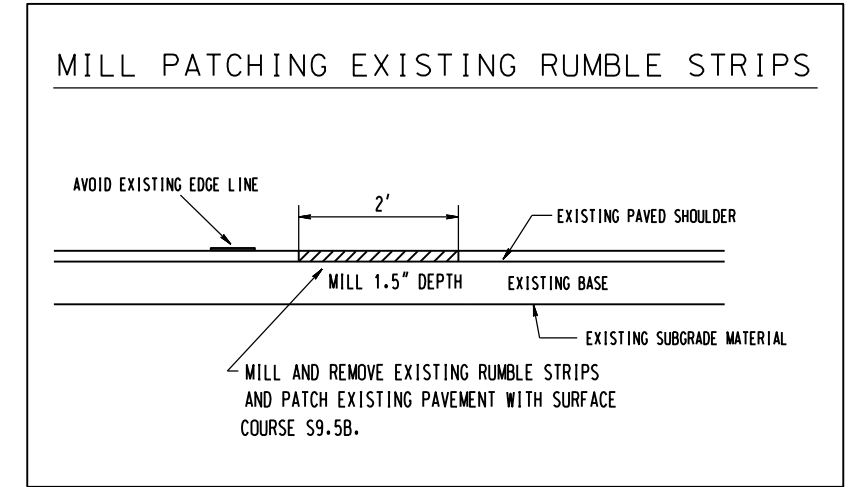
26-SEP-2019 1455  
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 \$\$\$SUSPENSE\$\$\$



MAP NO. 1  
I-140 EB (JOHN JAY BURNEY JR. FWY.)  
MM 14.92 - MM 21.00

MAP NO. 2  
I-140 WB (JOHN JAY BURNEY JR. FWY.)  
MM 21.00 - MM 14.92

PATCH EXISTING PAVEMENT S9.5B  
WILL BE USED TO REMOVE EXISTING  
RUMBLESTRIPS PRIOR TO PAVING.



MAP NO. 3  
EXIT #20 - EB EXIT RAMP  
MP 0.11 - MP 0.56

MAP NO. 5  
EXIT #416B - EB ENTRANCE RAMP  
MP 0.14 - MP 0.60

MAP NO. 7  
EXIT #416A - WB ENTRANCE RAMP  
MP 0.10 - MP 0.79

MAP NO. 4  
EXIT #20 - WB ENTRANCE RAMP  
MP 0.34 - MP 0.83

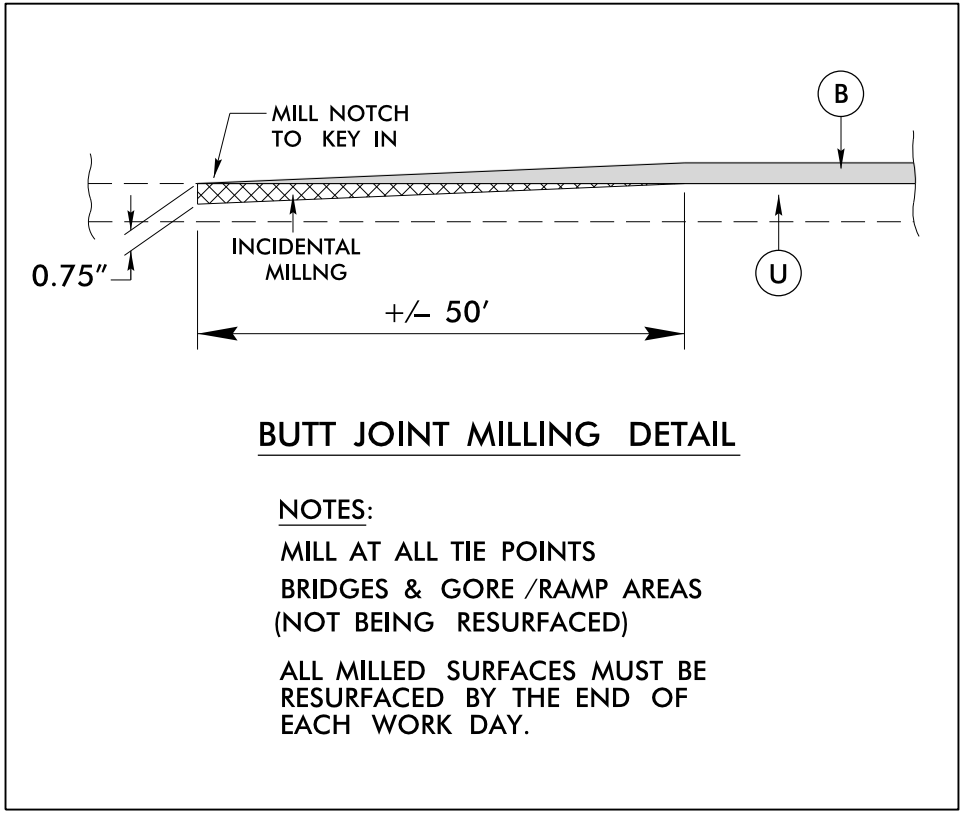
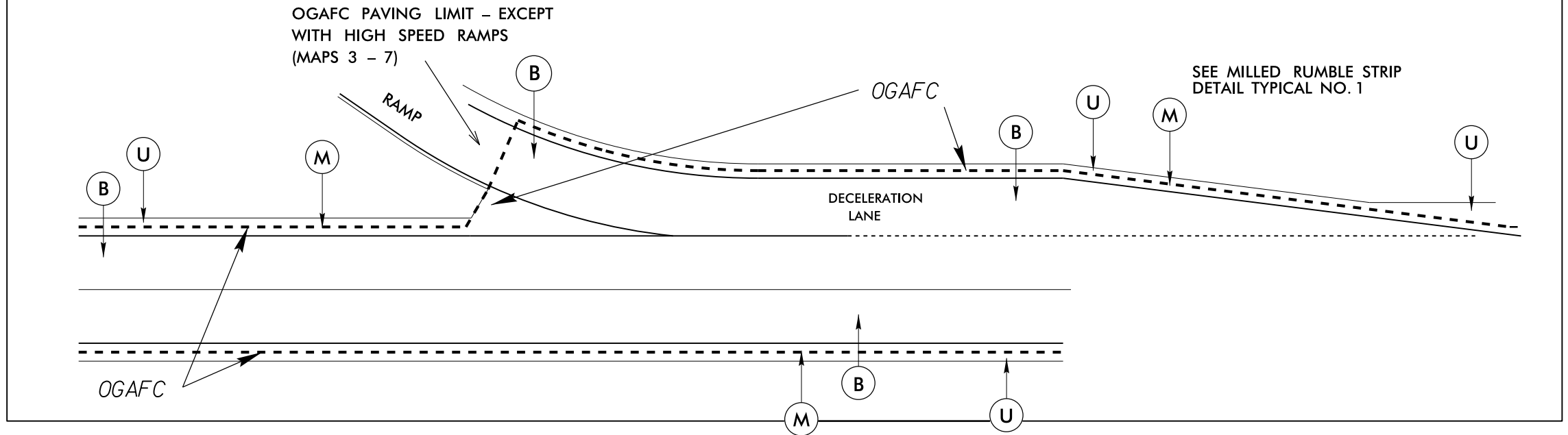
MAP NO. 6  
EXIT #20B - WB EXIT RAMP  
MP 0.00 - MP 0.75

PAVEMENT SCHEDULE	
B	PROP. APPROX. 3/4" OPEN-GRADED ASPHALT FRICTION COURSE, TYPE FC-1 MODIFIED, AT AN AVERAGE RATE OF 90 LBS. PER SQ.YD.
M	MILLED RUMBLE STRIP
U	EXISTING PAVEMENT

REVISIONS

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**PAVING LIMITS FOR OPEN-GRADED FRICTION COURSE  
AT EXIT AND ENTRANCE RAMPS**



2018 ROADWAY ENGLISH STANDARD DRAWINGS EFF.01-16-2018 REV.

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N.C. Department of Transportation - Raleigh, N.C., Dated January, 2018 are applicable to this project and by reference hereby are considered a part of these plans:

STD. NO.	TITLE
<b>DIVISION 6 - ASPHALT BASES AND PAVEMENTS</b>	
665.01	Asphalt Shoulders - Milled Rumble Strips
<b>DIVISION 8 - INCIDENTALS</b>	
862.01	Guardrail Placement
862.02	Guardrail Installation
<b>DIVISION 11 - WORK ZONE TRAFFIC CONTROL</b>	
1101.02	Temporary Lane Closures (Sheet 9 & 10 of 15)

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PROJECT NO.	SHEET NO.
I-5760A	5

### 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	1330000000-E	1577000000-E	1662000000-E	1840000000-E	1880000000-E	3060000000-E	3150000000-N	3210000000-N	3287000000-N	3389500000-N	3420000000-E	4600000000-N	5255000000-N		
												INCIDENTAL MILLING	POLYMER MODIFIED ASPHALT BINDER FOR PLANT MIX	OG ASP FRICT FC-1	MILLED RUMBLE STRIPS	PATCHING EXISTING PAVEMENT S9.5B (MILL) GENERIC	STEEL BM GUARDRAIL, DOUBLE FACE	ADDITIONAL GUARDRAIL POSTS	GUARDRAIL END UNITS, TYPE CAT-1	GUARDRAIL END UNITS, TYPE TL-3	ADDITIONAL GUIDERAIL POSTS	REMOVE & REPLACE EXISTING GUARDRAIL (GENERIC)	TRAFFIC CONTROL ITEM LANE CLOSURE (GENERIC)	TRAFFIC CONTROL ITEM RAMP / LOOP CLOSURE (GENERIC)	PORTABLE LIGHTING	
											MI	FT	SY	TON	TON	LF	TON	LF	EA	EA	EA	EA	LF	EA	EA	LS
52038.3.2	New Hanover	1	I-140 EB (JOHN J. BURNEY JR. FWY)	I-140 FROM I-140 (DAN CAMERON BRIDGE) TO I-40 INTERCHANGE [MM 14.92 - MM 21.00]	1	2	MD	NO	NO	6.08	32 - 69	3,183	400	6,558	63,596	1,225	50	14.00	2.00	11	6	650	18			
<b>TOTAL FOR MAP NO. 1</b>											<b>6.08</b>		<b>3,183</b>	<b>400</b>	<b>6,558</b>	<b>63,596</b>	<b>1,225</b>	<b>50</b>	<b>14.00</b>	<b>2.00</b>	<b>11</b>	<b>6</b>	<b>650</b>	<b>18</b>		
52038.3.2	New Hanover	2	I-140 WB (JOHN J. BURNEY JR. FWY)	I-140 FROM I-40 INTERCHANGE TO I-140 (DAN CAMERON BRIDGE) [MM 21.00 - MM 14.92]	1	2	MD	NO	NO	6.08	32 - 69	3,600	424	6,948	63,646	1,225		14.00	3.00	11		650	18			
<b>TOTAL FOR MAP NO. 2</b>											<b>6.08</b>		<b>3,600</b>	<b>424</b>	<b>6,948</b>	<b>63,646</b>	<b>1,225</b>		<b>14.00</b>	<b>3.00</b>	<b>11</b>		<b>650</b>	<b>18</b>		
52038.3.2	New Hanover	3	EXIT 20 - EB EXIT RAMP AT I-140	FROM I-140 TO I-40 [MP 0.11 - MP 0.56]	2	1		NO	NO	0.45	23	133	14	226	50	1				2		100		2	0.16	
<b>TOTAL FOR MAP NO. 3</b>											<b>0.45</b>		<b>133</b>	<b>14</b>	<b>226</b>	<b>50</b>	<b>1</b>				<b>2</b>		<b>100</b>		<b>2</b>	<b>0.16</b>
52038.3.2	New Hanover	4	EXIT 20 - WB ENTRANCE RAMP AT I-40	FROM I-140 TO I-40 [MP 0.34 - MP 0.83]	2	1		NO	NO	0.49	23	267	17	276						1		75		2	0.18	
<b>TOTAL FOR MAP NO. 4</b>											<b>0.49</b>		<b>267</b>	<b>17</b>	<b>276</b>						<b>1</b>		<b>75</b>		<b>2</b>	<b>0.18</b>
52038.3.2	New Hanover	5	EXIT 416B - EB ENTRANCE RAMP AT I-140	FROM I-40 TO I-140 [MP 0.14 - MP 0.60]	2	1		NO	NO	0.46	25	133	19	315	50	1				1		50		2	0.16	
<b>TOTAL FOR MAP NO. 5</b>											<b>0.46</b>		<b>133</b>	<b>19</b>	<b>315</b>	<b>50</b>	<b>1</b>				<b>1</b>		<b>50</b>		<b>2</b>	<b>0.16</b>
52038.3.2	New Hanover	6	EXIT 20B - WB EXIT RAMP AT I-140	FROM I-140 TO I-40 [MP 0.00 - MP 0.75]	2	1		NO	NO	0.75	23	267	50	820										2	0.26	
<b>TOTAL FOR MAP NO. 6</b>											<b>0.75</b>		<b>267</b>	<b>50</b>	<b>820</b>										<b>2</b>	<b>0.26</b>
52038.3.2	New Hanover	7	EXIT 416A - WB ENTRANCE RAMP AT I-140	FROM I-40 TO I-140 [MP 0.10 - MP 0.79]	2	1		NO	NO	0.69	23	467	39	642										2	0.24	
<b>TOTAL FOR MAP NO. 7</b>											<b>0.69</b>		<b>467</b>	<b>39</b>	<b>642</b>										<b>2</b>	<b>0.24</b>
<b>TOTAL FOR PROJ NO. 52038.3.2</b>											<b>15</b>		<b>8,050</b>	<b>963</b>	<b>15,785</b>	<b>127,342</b>	<b>2,452</b>	<b>50</b>	<b>28.00</b>	<b>5</b>	<b>26</b>	<b>6</b>	<b>1,525</b>	<b>36</b>	<b>10</b>	<b>1</b>
<b>GRAND TOTAL</b>											<b>15</b>		<b>8,050</b>	<b>963</b>	<b>15,785</b>	<b>127,342</b>	<b>2,452</b>	<b>50</b>	<b>28.00</b>	<b>5</b>	<b>26</b>	<b>6</b>	<b>1,525</b>	<b>36</b>	<b>10</b>	<b>1</b>

PROJECT NO.	SHEET NO.
I-5760A	6

**THERMOPLASTIC AND PAINT QUANTITIES**

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4400000000-E	4420000000-N	4423000000-N	4480000000-N	4510000000-N	4688000000-E		4700000000-E	4725000000-E	4875000000-N	4905000000-N	
								MI	FT	WORK ZONE SIGNS (STATIONARY)	PORT CHANG MSG SIGN	DIGITAL SPEED LIMIT SIGNS	TMA	LAW ENFORCEMENT	6" X 90 M WHITE THERMO	6" X90 M YELLOW THERMO	12" X 90 M WHITE THERMO	MERGE ARROW 90 M	REMOVAL OF PAVEMENT MARKING SYMBOLS & CHARACTERS	SNOW PLOWABLE MARKERS (C/R)	
52038.3.2	New Hanover	1	I-140 EB (JOHN J. BURNEY JR. FWY)	I-140 FROM I-140 (DAN CAMERON BRIDGE) TO I-40 INTERCHANGE [MM 14.92 - MM 21.00]	1	2	MD	6.08	32 - 69	224	2	5	2	240	48,025	30,937	3,245	3	3	581	
<b>TOTAL FOR MAP NO. 1</b>								<b>6.08</b>		<b>224</b>	<b>2</b>	<b>5</b>	<b>2</b>	<b>240</b>	<b>48,025</b>	<b>30,937</b>	<b>3,245</b>	<b>3</b>	<b>3</b>	<b>581</b>	
52038.3.2	New Hanover	2	I-140 WB (JOHN J. BURNEY JR. FWY)	I-140 FROM I-40 INTERCHANGE TO I-140 (DAN CAMERON BRIDGE) [MM 21.00 - MM 14.92]	1	2	MD	6.08	32 - 69	224	2	5		240	55,172	30,937	3,307	9	9	580	
<b>TOTAL FOR MAP NO. 2</b>								<b>6.08</b>		<b>224</b>	<b>2</b>	<b>5</b>		<b>240</b>	<b>55,172</b>	<b>30,937</b>	<b>3,307</b>	<b>9</b>	<b>9</b>	<b>580</b>	
52038.3.2	New Hanover	3	EXIT 20 - EB EXIT RAMP AT I-140	FROM I-140 TO I-40 [MP 0.11 - MP 0.56]	2	1		0.45	23	24				20	2,336	2,411	615			20	
<b>TOTAL FOR MAP NO. 3</b>								<b>0.45</b>		<b>24</b>				<b>20</b>	<b>2,336</b>	<b>2,411</b>	<b>615</b>			<b>20</b>	
52038.3.2	New Hanover	4	EXIT 20 - WB ENTRANCE RAMP AT I-40	FROM I-140 TO I-40 [MP 0.34 - MP 0.83]	2	1		0.49	23					20	2,646	2,646					
<b>TOTAL FOR MAP NO. 4</b>								<b>0.49</b>					<b>20</b>	<b>2,646</b>	<b>2,646</b>						
52038.3.2	New Hanover	5	EXIT 416B - EB ENTRANCE RAMP AT I-140	FROM I-40 TO I-140 [MP 0.14 - MP 0.60]	2	1		0.46	25	16				20	2,400	2,400					
<b>TOTAL FOR MAP NO. 5</b>								<b>0.46</b>		<b>16</b>			<b>20</b>	<b>2,400</b>	<b>2,400</b>						
52038.3.2	New Hanover	6	EXIT 20B - WB EXIT RAMP AT I-140	FROM I-140 TO I-40 [MP 0.00 - MP 0.75]	2	1		0.75	23	24				20	5,354	3,954	1,260	3	3	70	
<b>TOTAL FOR MAP NO. 6</b>								<b>0.75</b>		<b>24</b>			<b>20</b>	<b>5,354</b>	<b>3,954</b>	<b>1,260</b>	<b>3</b>	<b>3</b>	<b>70</b>		
52038.3.2	New Hanover	7	EXIT 416A - WB ENTRANCE RAMP AT I-140	FROM I-40 TO I-140 [MP 0.10 - MP 0.79]	2	1		0.69	23	24				20	4,268	3,920	1,075	3	3	61	
<b>TOTAL FOR MAP NO. 7</b>								<b>0.69</b>		<b>24</b>			<b>20</b>	<b>4,268</b>	<b>3,920</b>	<b>1,075</b>	<b>3</b>	<b>3</b>	<b>61</b>		
<b>TOTAL FOR PROJ NO. 52038.3.2</b>								<b>15</b>		<b>536</b>	<b>4</b>	<b>10</b>	<b>2</b>	<b>580</b>	<b>120,201</b>	<b>77,205</b>	<b>9,502</b>	<b>18</b>	<b>18</b>	<b>1,312</b>	
<b>GRAND TOTAL</b>								<b>15</b>		<b>536</b>	<b>4</b>	<b>10</b>	<b>2</b>	<b>580</b>	<b>120,201</b>	<b>77,205</b>	<b>9,502</b>	<b>18</b>	<b>18</b>	<b>1,312</b>	
														<b>197,406</b>							