

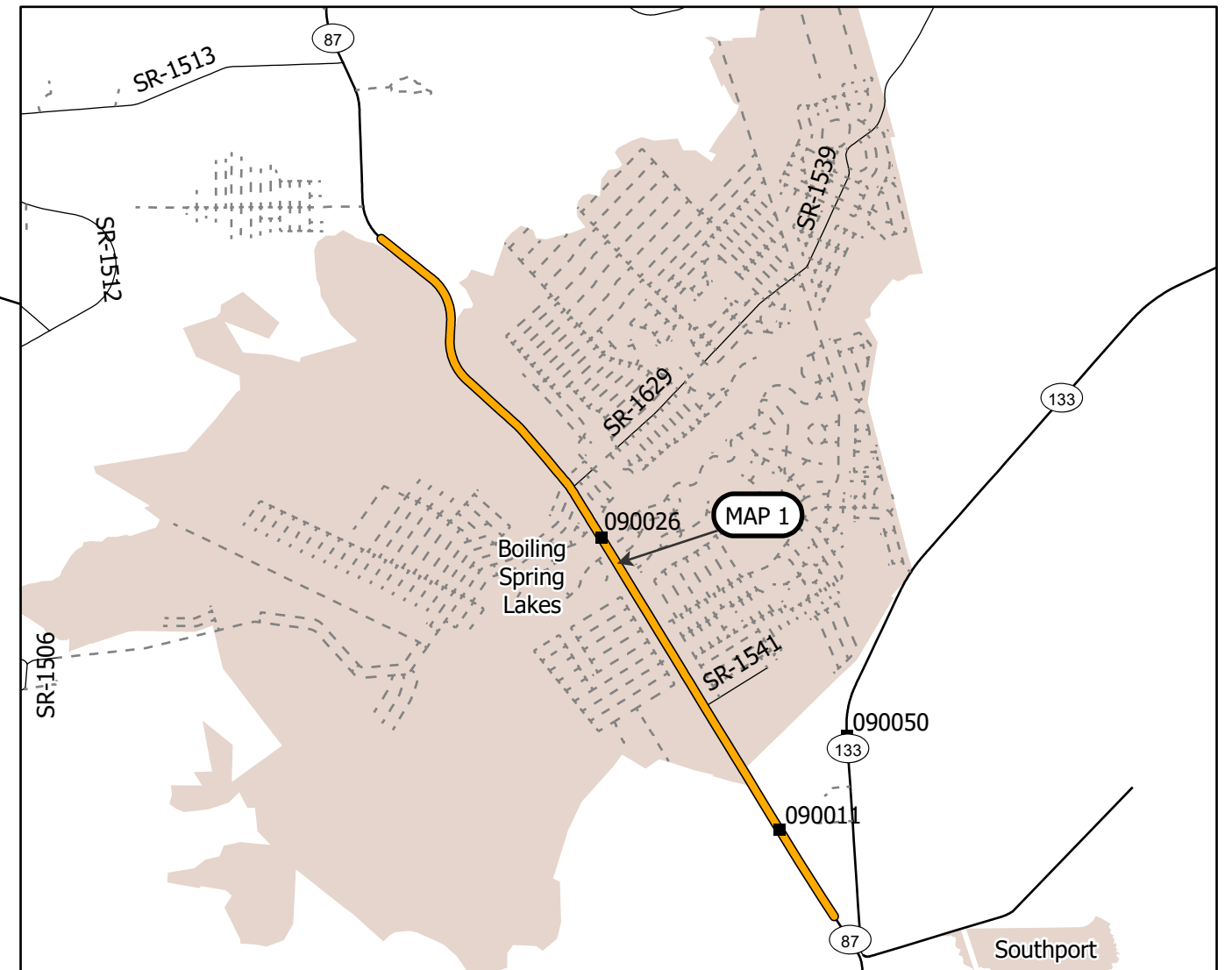
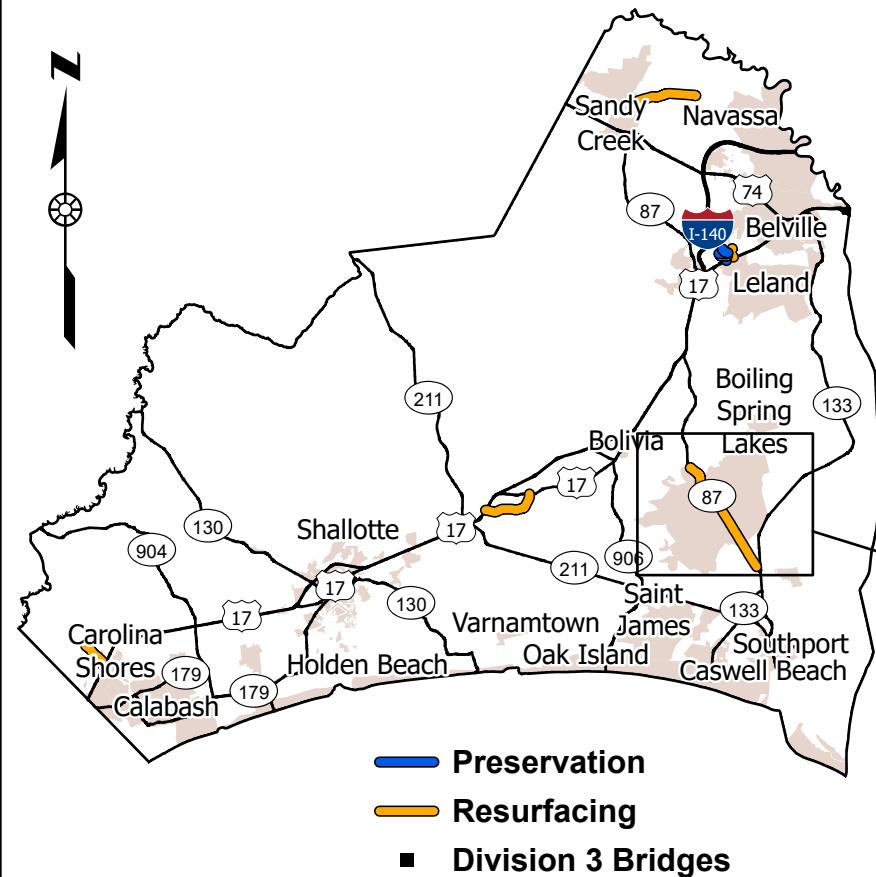
WBS NO: 2024CPT.03.07.10101, ETC.

CONTRACT: C204964

**STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
BRUNSWICK COUNTY**

TYPE OF WORK: RESURFACING

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2024CPT.03.07.10101, ETC.	1
STATE PROJECT NUMBER		DESCRIPTION



MAP	ROUTE	Description	TYPE
1	NC 87 / GEORGE II HIGHWAY	FROM 0.3 MILES N OF NC HWY 133 TO 1.29 MI S OF SR 1513 (DANFORD RD) [MP 3.61 - MP 9.40]	Resurfacing

PROJECT LENGTH

MAP	MILES
1	5.79

Prepared in the Office of:
DIVISION OF HIGHWAYS
5501 BARBADOS BLVD., CASTLE HAYNE, NC, 28429

This exhibit does not meet NC 47-30 requirements and therefore is not intended for design, construction, or recording or transfer of title.



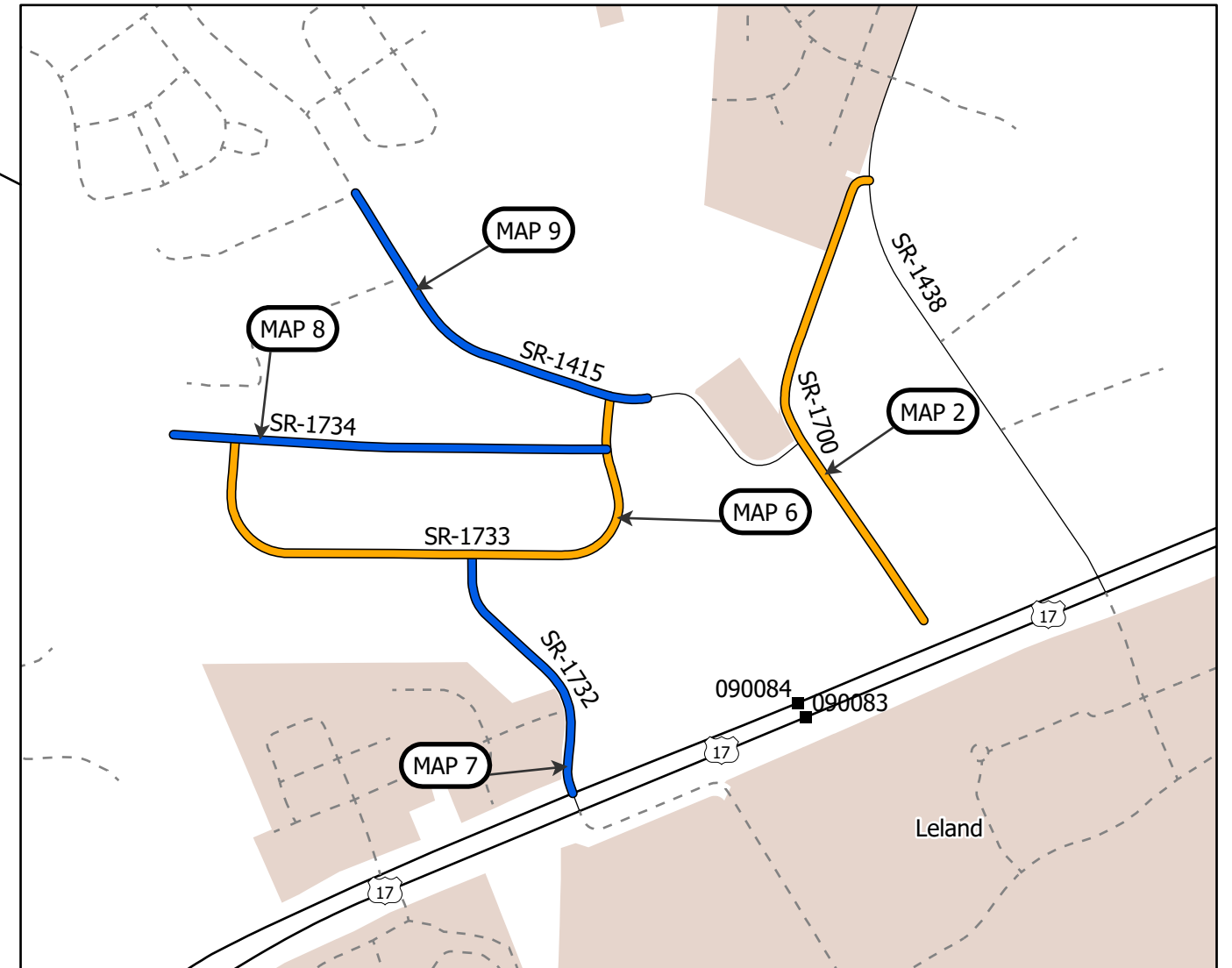
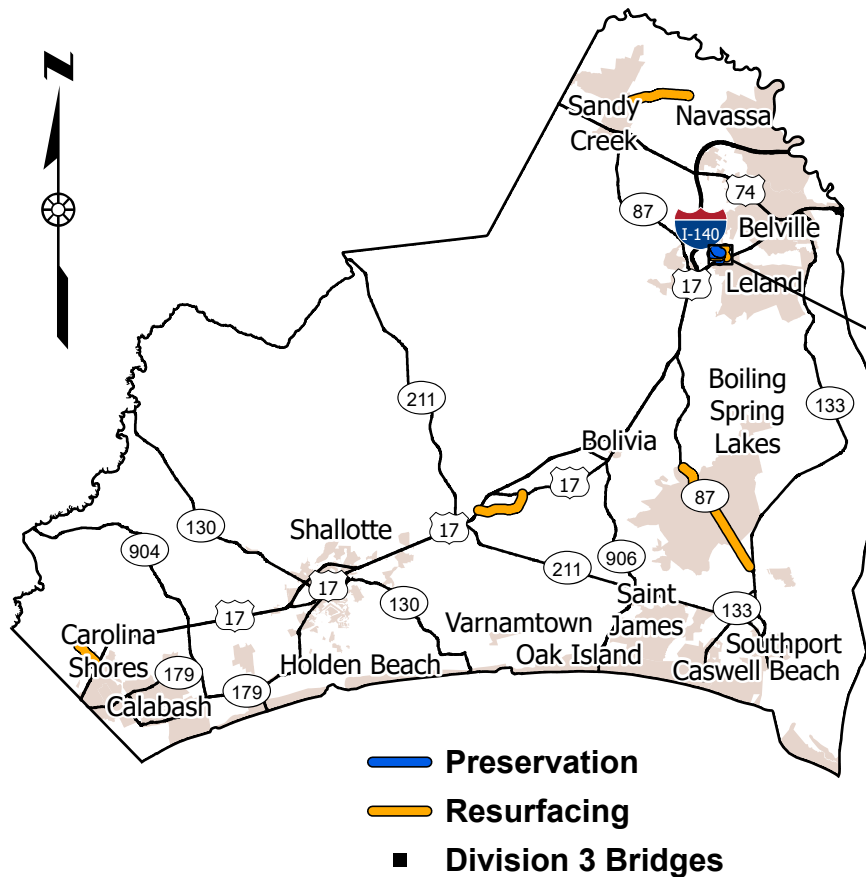
WBS NO: 2024CPT.03.07.10101, ETC.

CONTRACT: C204964

**STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
BRUNSWICK COUNTY**

TYPE OF WORK: RESURFACING

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2024CPT.03.07.10101, ETC.	2
STATE PROJECT NUMBER		DESCRIPTION



MAP	ROUTE	Description	TYPE
2	SR-1700 / OLD LANVALE RD NE	FROM SR 1438 (LANVALE RD) TO DEAD END [MP 0.00 - MP 0.46]	Resurfacing
6	SR-1733 / RACHEL WYND NE	FROM SR 1415 (BUCKEYE RD NE) TO SR 1734 (WEBSTER CT NE) [MP 0.00 - MP 0.57]	Resurfacing
7	SR-1732 / CAROL-LYNN RD NE	FROM OCEAN HWY SE TO SR 1733 (RACHEL WYND NE) [MP 0.00 - MP 0.28]	Preservation
8	SR-1734 / WEBSTER CT NE	FROM 1733 (RACHEL WYND NE) TO CUL-DE-SAC [MP 0.00 - MP 0.40]	Preservation
9	SR-1415 / BUCKEYE RD NE	FROM SR 1733 (RACHEL WYND NE) TO END OF MAINTENANCE [MP 0.18 - MP 0.53]	Preservation

PROJECT LENGTH

MAP	MILES
2	0.46
6	0.57
7	0.28

MAP	MILES
8	0.40
9	0.35

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DIVISION OF HIGHWAYS
5501 BARBADOS BLVD., CASTLE HAYNE, NC, 28429

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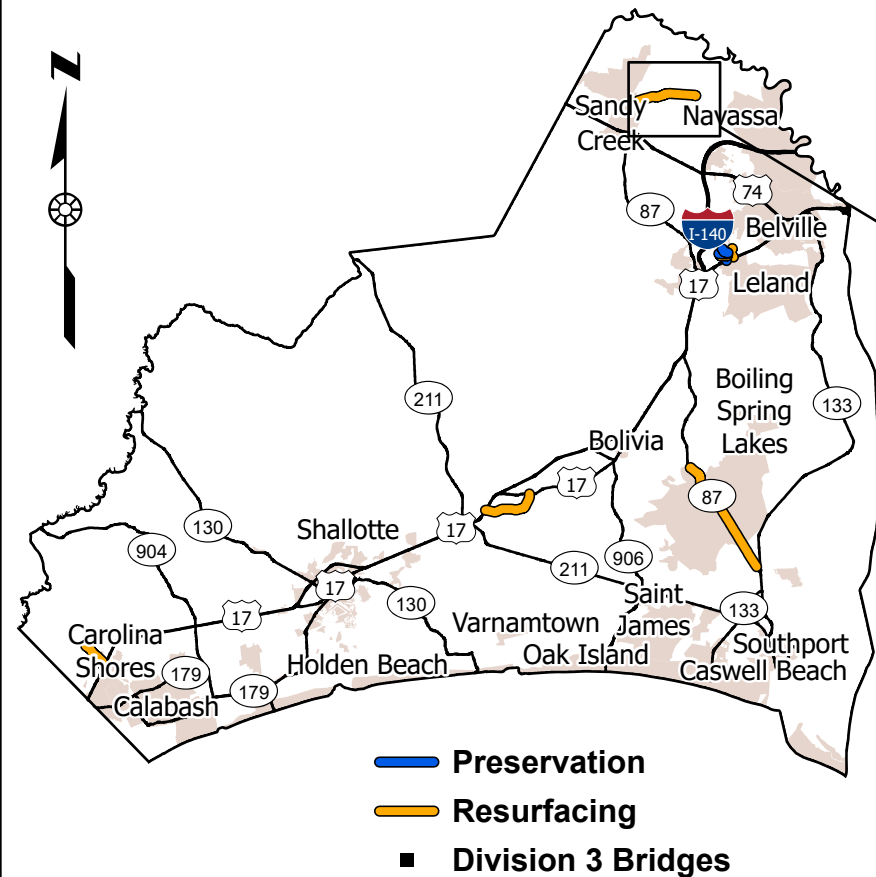
WBS NO: 2024CPT.03.07.10101, ETC.

CONTRACT: C204964

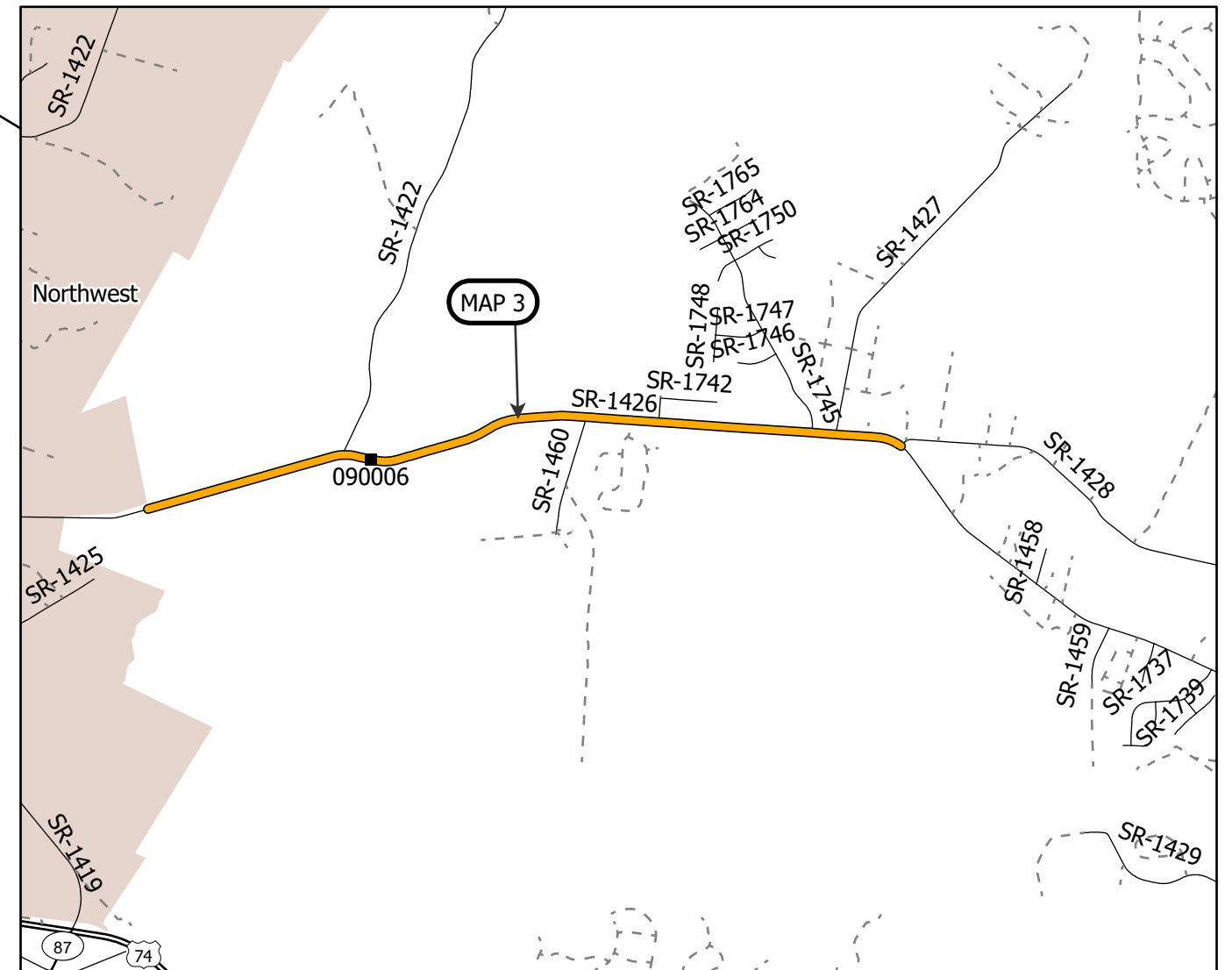
**STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
BRUNSWICK COUNTY**

TYPE OF WORK: RESURFACING

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2024CPT.03.07.10101, ETC.	3
STATE PROJECT NUMBER		DESCRIPTION



MAP	ROUTE	Description	TYPE
3	SR-1426 / MT. MISERY RD NE	FROM MT MISERY RD @ NCL SIGN TO SR 1428 (DOGWOOD RD) [MP 0.99 - MP 3.79]	Resurfacing



PROJECT LENGTH

MAP	MILES
3	2.80

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DIVISION OF HIGHWAYS
5501 BARBADOS BLVD., CASTLE HAYNE, NC, 28429

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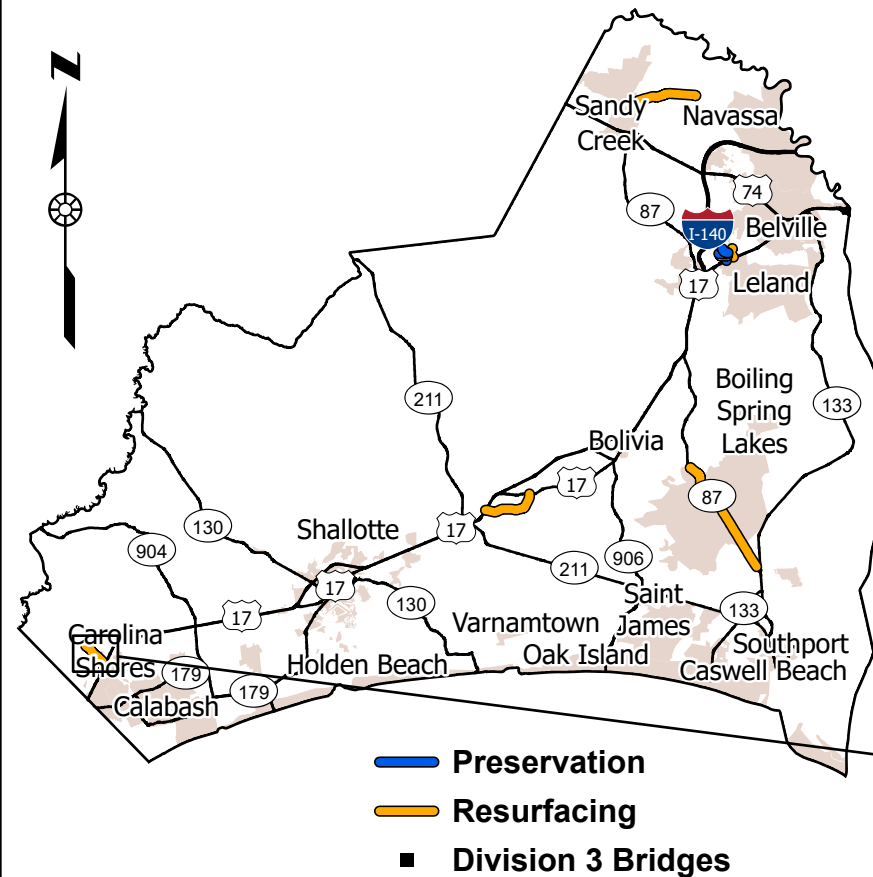
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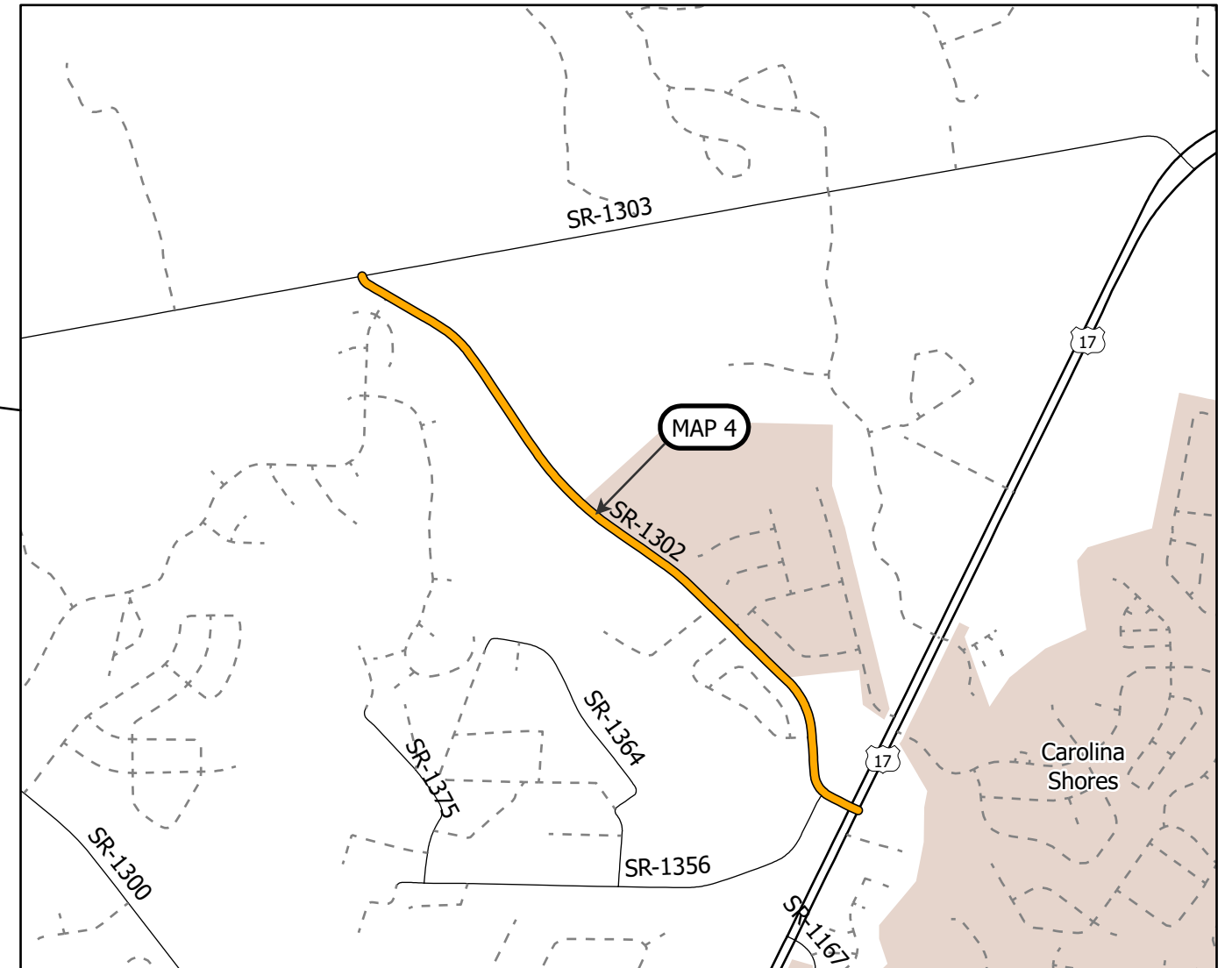
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
BRUNSWICK COUNTY

TYPE OF WORK: RESURFACING

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2024CPT.03.07.10101, ETC.	4
STATE PROJECT NUMBER		DESCRIPTION



MAP	ROUTE	Description	TYPE
4	SR-1302 / SHINGLETREE RD NW	FROM SR 1303 (HICKMAN RD NW) TO US HWY 17 [MP 0.00 - MP 1.33]	Resurfacing

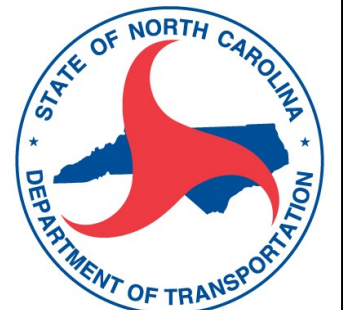


PROJECT LENGTH

MAP	MILES
4	1.33

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DIVISION OF HIGHWAYS
 5501 BARBADOS BLVD., CASTLE HAYNE, NC, 28429

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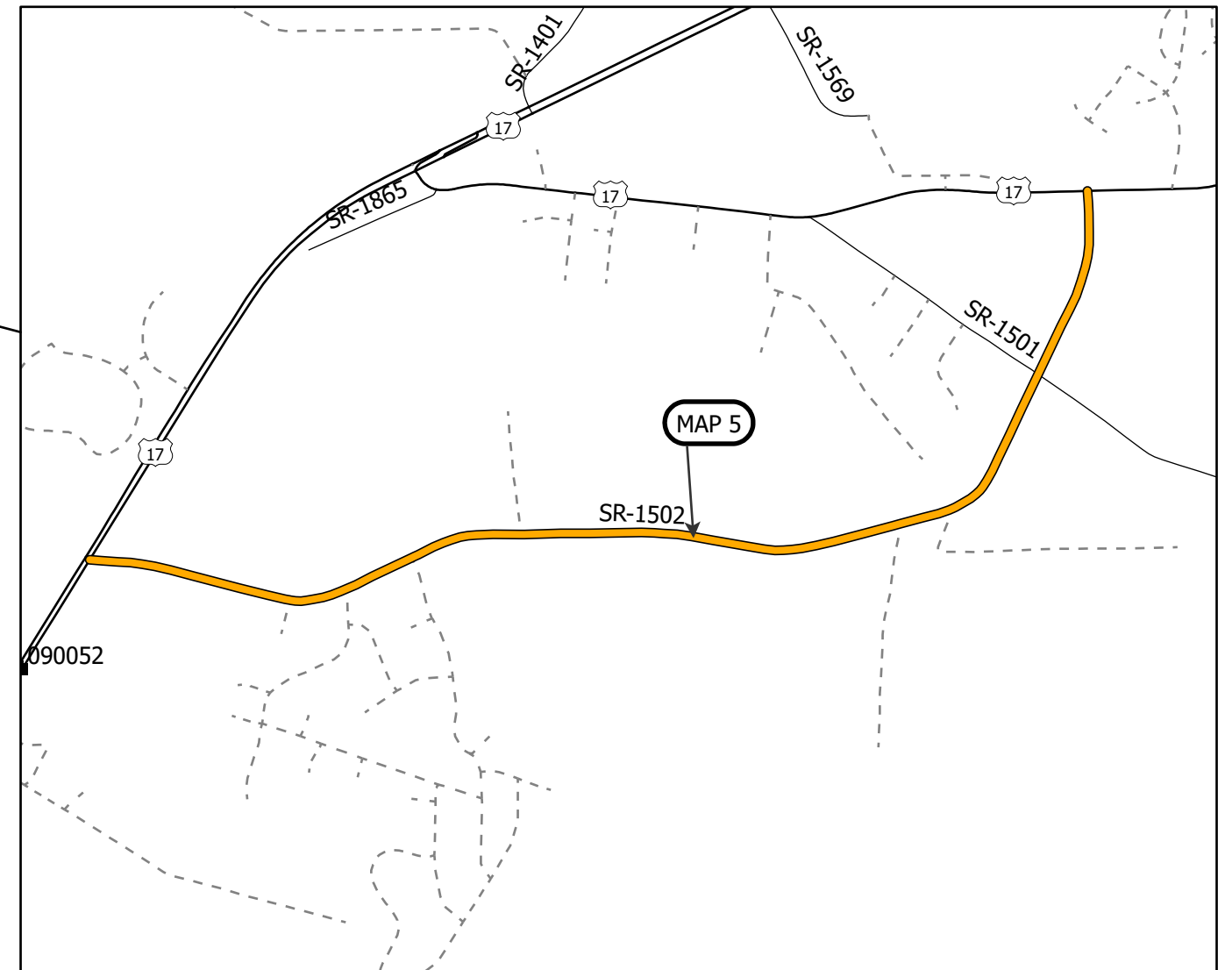
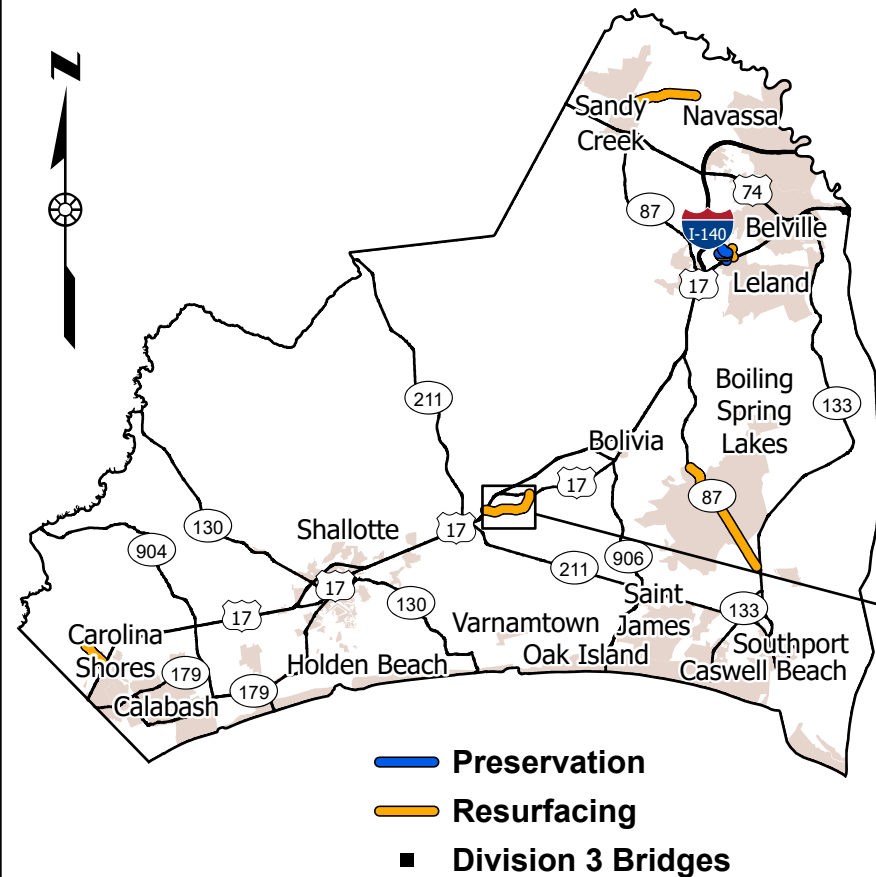
WBS NO: 2024CPT.03.07.10101, ETC.

CONTRACT: C204964

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
BRUNSWICK COUNTY

TYPE OF WORK: RESURFACING

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2024CPT.03.07.10101, ETC.	5
STATE PROJECT NUMBER		DESCRIPTION



MAP	ROUTE	Description	TYPE
5	SR-1502 / BENTON RD SE	FROM US 17 OCEAN HWY TO OLD OCEAN HWY [MP 0.00 - MP 2.58]	Resurfacing

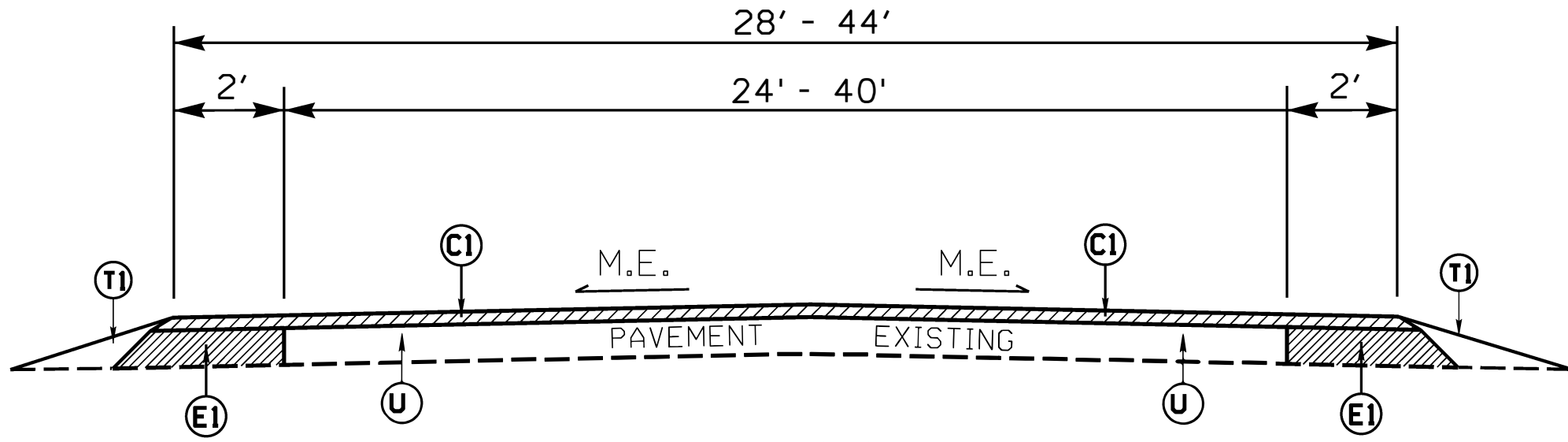
PROJECT LENGTH

MAP	MILES
5	2.58

Prepared in the Office of:
DIVISION OF HIGHWAYS
 5501 BARBADOS BLVD., CASTLE HAYNE, NC, 28429

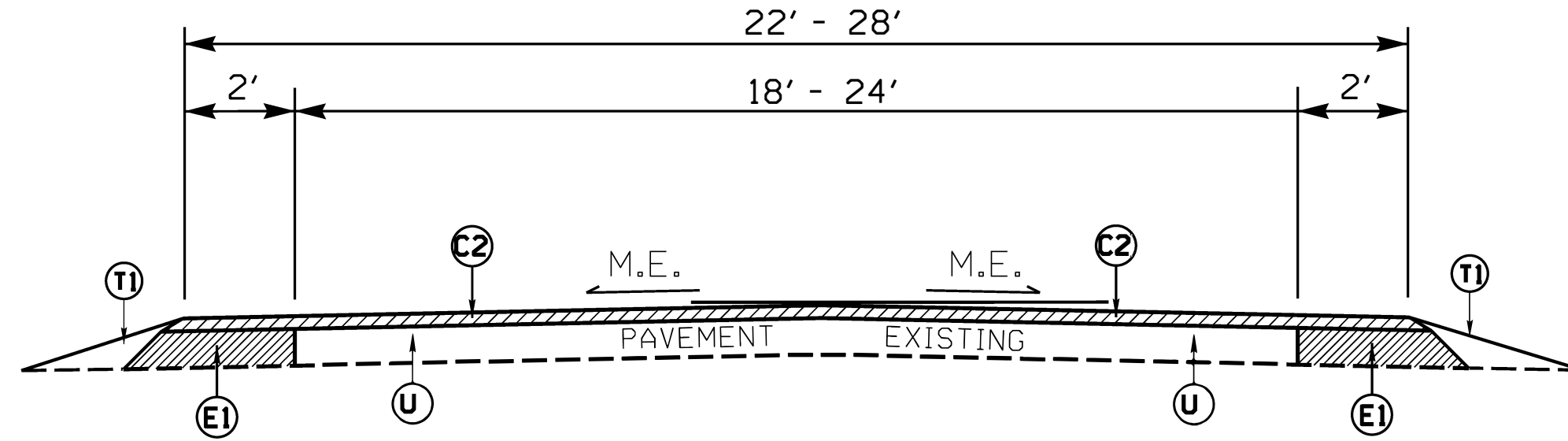
This exhibit does not meet NC 47-30 requirements and therefore is not intended for design, construction, or recording or transfer of title.





TYPICAL SECTION NO. 1

MAP NO. 1
 NC 87 (GEORGE II HWY.)
 MP 3.61 - MP 9.40



TYPICAL SECTION NO. 2

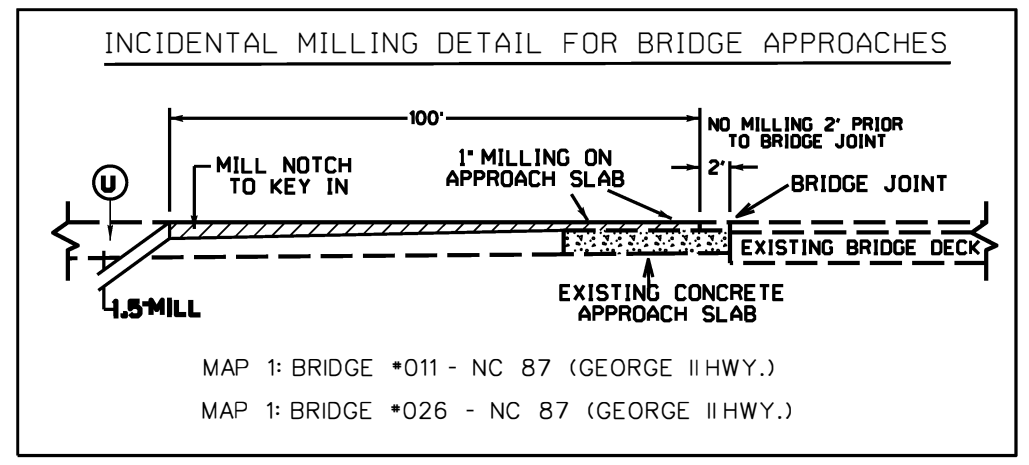
MAP NO. 4
 SR 1302 (SHINGLETREE RD. NW)
 MP 0.00 - MP 1.33

MAP NO. 5
 SR 1502 (BENTON RD. SE)
 MP 0.00 - MP 2.58

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1½" DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ.YD.
C2	PROP. APPROX. 1½" DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ.YD.
C3	PROP. APPROX. 1" DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ.YD.
E1	PROP. APPROX. 5" DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ.YD.
R1	EXISTING BRIDGE BARRIER RAIL
T1	EARTH MATERIAL (SHOULDER RECONSTRUCTION)
U	EXISTING PAVEMENT
V1	MILLING ASPHALT PAVEMENT, 1½" DEPTH
V2	MILLING ASPHALT PAVEMENT, 1" DEPTH

NOTES: MILL A SINGLE LANE AND PAVE BACK BY THE END OF EACH WORK DAY.
 SHOULDER WORK ON MAP NO. 1-6 AS NEEDED, TO BE DETERMINED BY ENGINEER.
 MAP NO. 1, 4 & 5: THE CONTRACTOR SHALL RETAIN EXISTING LANE WIDTHS AND REINSTALL MARKINGS @ SAME.

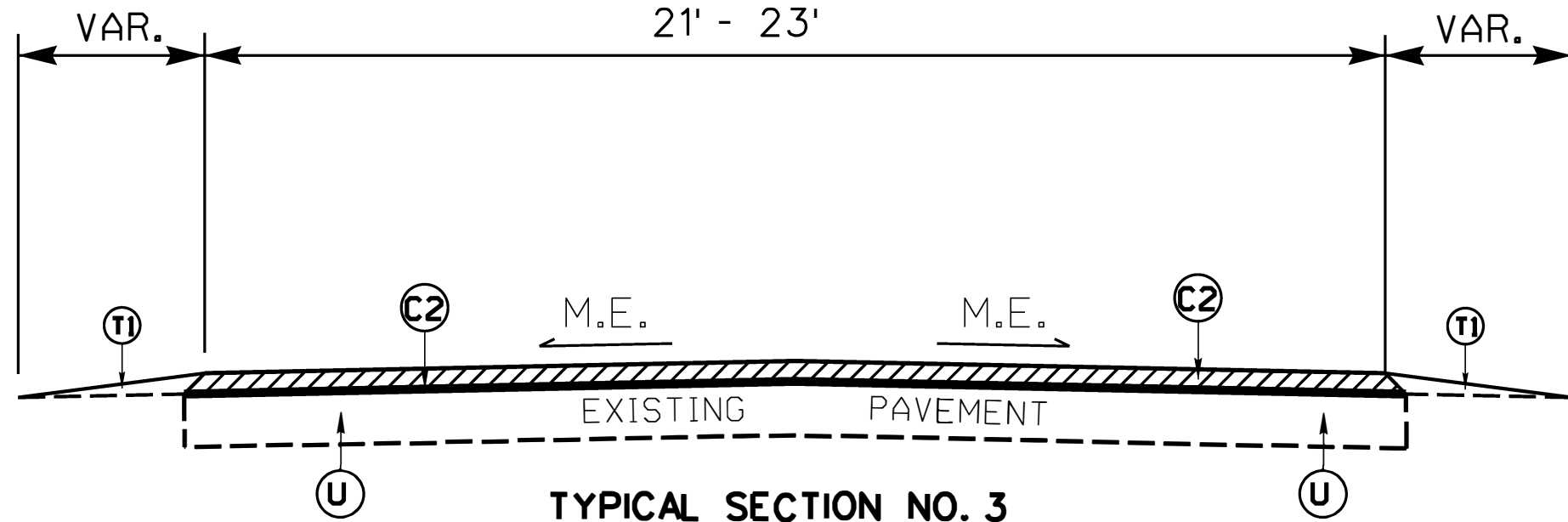
PAVEMENT EDGE SLOPES ARE 1:1, EXCEPT FINAL SURFACE COURSE. SEE SHOULDER WEDGE DETAIL.



MAP 1: BRIDGE *011 - NC 87 (GEORGE II HWY.)
 MAP 1: BRIDGE *026 - NC 87 (GEORGE II HWY.)

REVISIONS

8/17/99
 SYSTEM TIME



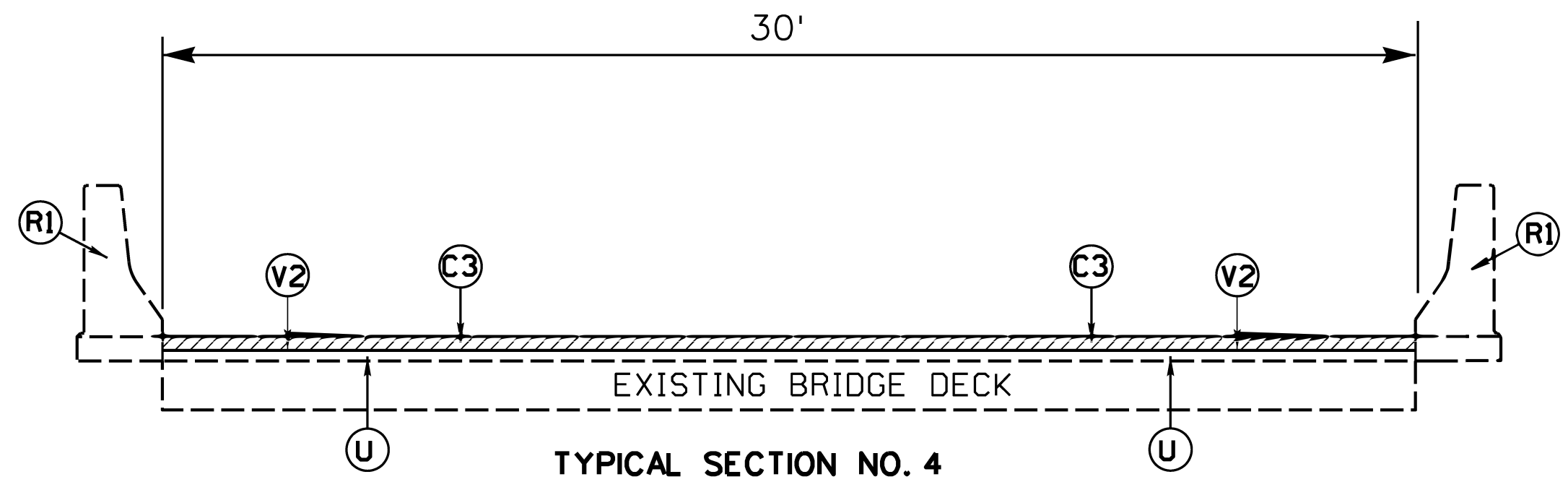
TYPICAL SECTION NO. 3

MAP NO. 2 SR 1700 (OLD LANVALE RD. NE) MP 0.00 - MP 0.46
 MAP NO. 3 SR 1426 (MT. MISERY RD. NE) MP 0.99 - MP 3.79
 (v1) FRIS MILL 1-1/2" MP 0.11 - MP 0.40

PAVEMENT SCHEDULE	
C2	PROP. APPROX. 1 1/2' DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ.YD.
C3	PROP. APPROX. 1" DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ.YD.
R1	EXISTING BRIDGE BARRIER RAIL
T1	EARTH MATERIAL (SHOULDER RECONSTRUCTION)
U	EXISTING PAVEMENT
V1	MILLING ASPHALT PAVEMENT, 1 1/2' DEPTH
V2	MILLING ASPHALT PAVEMENT, 1' DEPTH

NOTES: MILL A SINGLE LANE AND PAYE BACK BY THE END OF EACH WORK DAY.
 SHOULDER WORK ON MAP NO. 1-6 AS NEEDED, TO BE DETERMINED BY ENGINEER.

PAVEMENT EDGE SLOPES ARE 1:1, EXCEPT FINAL SURFACE COURSE. SEE SHOULDER WEDGE DETAIL.



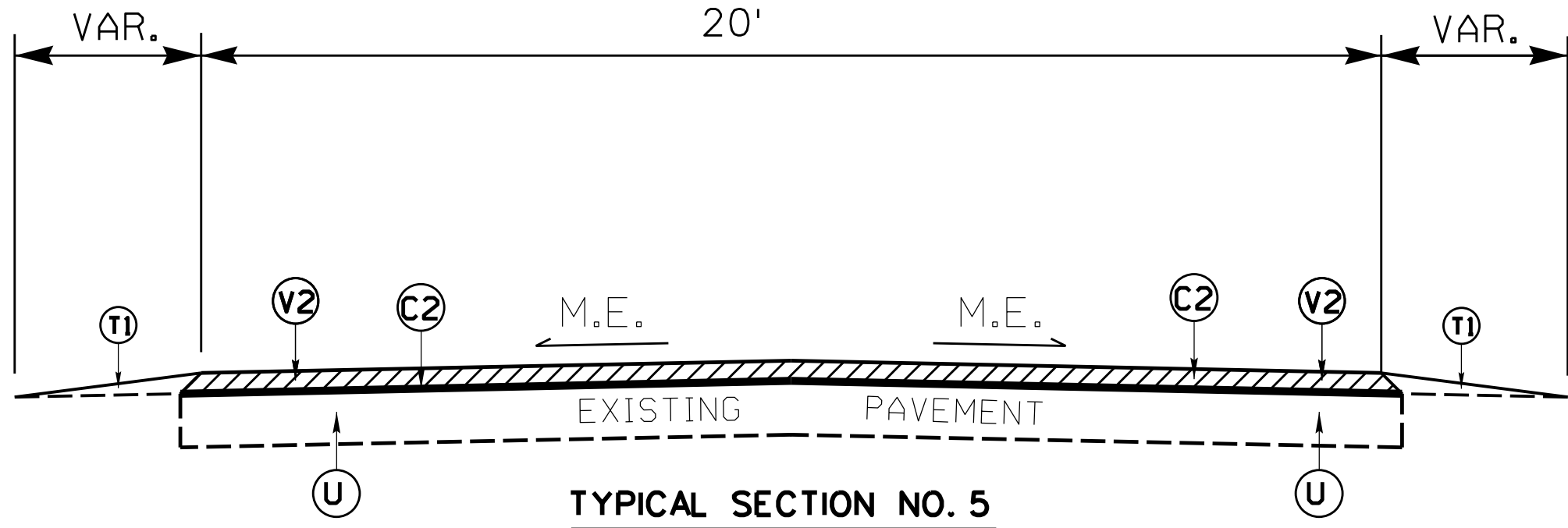
TYPICAL SECTION NO. 4

MAP NO. 3 SR 1426 (MT. MISERY RD. NE) BRUNSWICK BRIDGE NO. 006 MP 1.81 - MP 1.84

REVISIONS

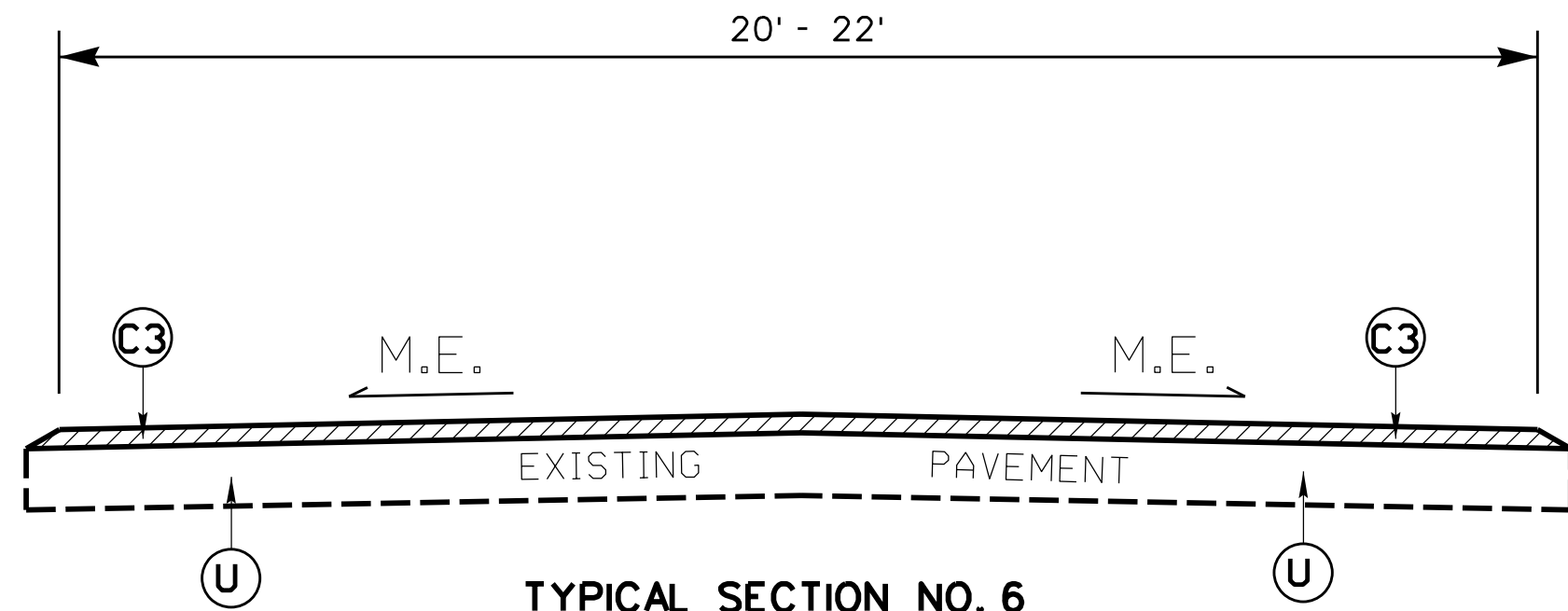
8/17/99

SYSTEMS



TYPICAL SECTION NO. 5

MAP NO. 6
 SR 1733 (RACHEL WYND NE)
 MP 0.00 - MP 0.57



TYPICAL SECTION NO. 6

MAP NO. 7	MAP NO. 8
SR 1732 (CAROL-LYNN RD. NE)	SR 1734 (WEBSTER CT NE)
MP 0.00 - MP 0.28	MP 0.00 - MP 0.40
MAP NO. 9	
SR 1415 (BUCKEYE RD. NE)	
MP 0.18 - MP 0.53	

PAVEMENT SCHEDULE	
C2	PROP. APPROX. 1½" DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ.YD.
C3	PROP. APPROX. 1" DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ.YD.
T1	EARTH MATERIAL (SHOULDER RECONSTRUCTION)
U	EXISTING PAVEMENT
V2	MILLING ASPHALT PAVEMENT, 1" DEPTH

NOTES: MILL A SINGLE LANE AND PAVE BACK BY THE END OF EACH WORK DAY.
 SHOULDER WORK ON MAP NO. 1-6 AS NEEDED, TO BE DETERMINED BY ENGINEER.

PAVEMENT EDGE SLOPES ARE 1:1, EXCEPT FINAL SURFACE COURSE. SEE SHOULDER WEDGE DETAIL.

2024 ROADWAY ENGLISH STANDARD DRAWINGS
 The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch -
 N.C. Department of Transportation - Raleigh, N.C., Dated January, 2024 are applicable to this project and by reference hereby are considered a part of these plans:
 EFF. 01-16-2024 REV.

STD.NO.	TITLE
DIVISION 12 - PVMT MARKING, MARKERS AND DELINEATION	
1205.08	Pavement Markings - Symbols & Word Messages

REVISIONS

8/17/99
 SYSTEM TIME 8:55
 8/17/99

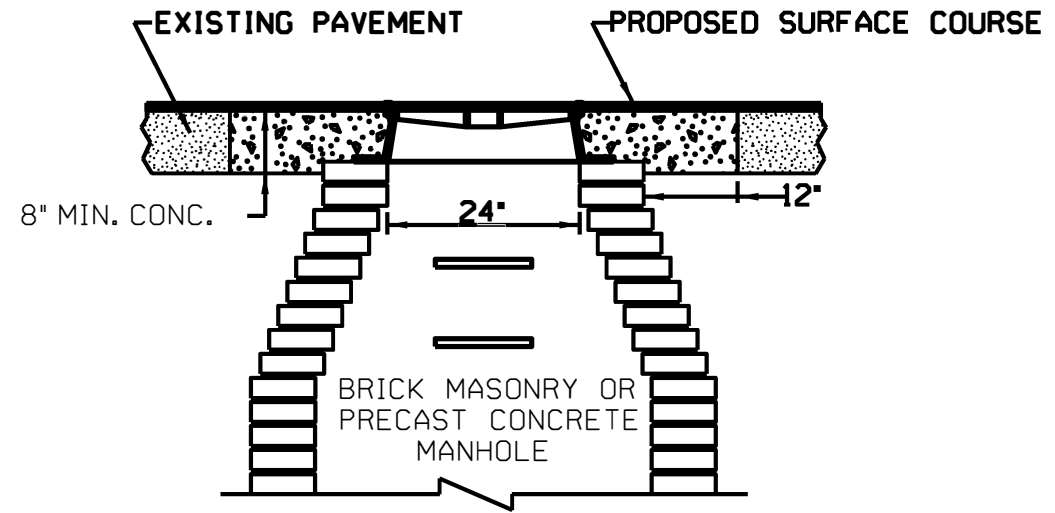
STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
 MANHOLE AND VALVE BOX ADJUSTMENTS

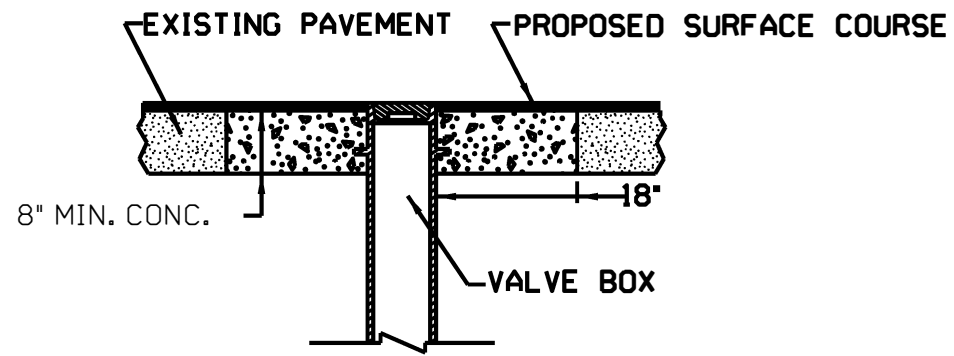
840055

GENERAL NOTES:

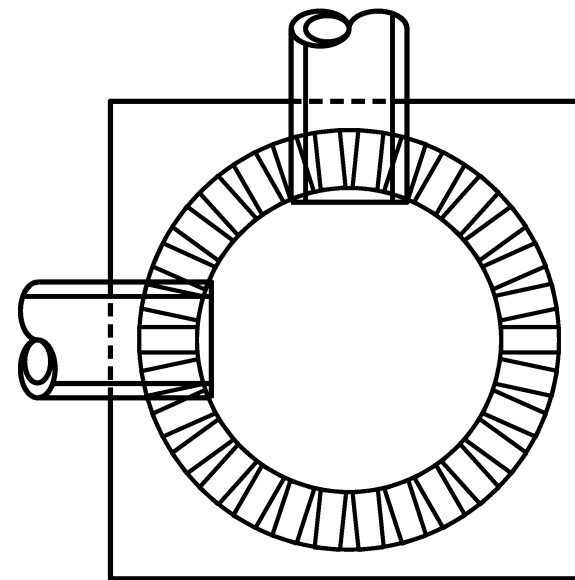
1. USE RAPID SET GROUT, MORTAR, OR CONCRETE THAT WILL TAKE FULL SET AND BECOME LOAD BEARING WITHIN SIXTY MINUTES OF PLACEMENT WITH A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI.
2. REMOVE ALL FAULTY EXISTING BRICKWORK AND REPLACE WITH NEW BRICK MASONRY.
3. SHEER CUT EXCAVATION FOR THE ADJUSTMENT ON ALL SIDES.
4. FILL AREA BELOW 8" DEPTH WITH 78M OR NO. 57 CLEAN STONE.
5. MIX MORTAR TO NCDOT SPECIFICATIONS.
6. MORTAR JOINTS $\frac{1}{2}$ " +/- $\frac{1}{8}$ "
7. CONSTRUCT AN ASPHALT RAMP IN ACCORDANCE WITH SECTION 858-3 OF THE 2024 STANDARD SPECIFICATIONS.



MANHOLE CONCRETE ENCASEMENT



VALVE BOX CONCRETE ENCASEMENT



ELEVATION VIEW

PLACE BRICK ACCORDING TO ELEVATION VIEW

STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

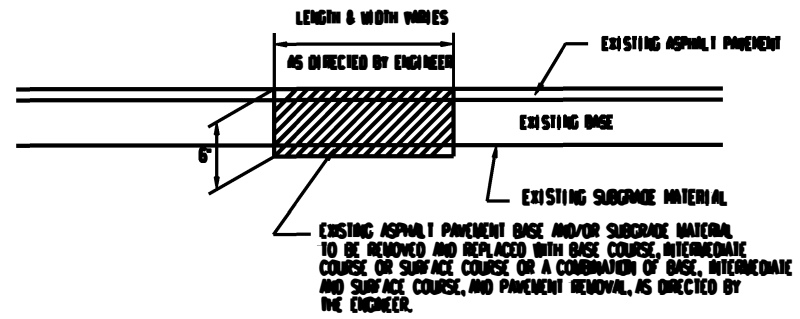
ENGLISH DETAIL DRAWING FOR
 MANHOLE AND VALVE BOX ADJUSTMENTS

840055

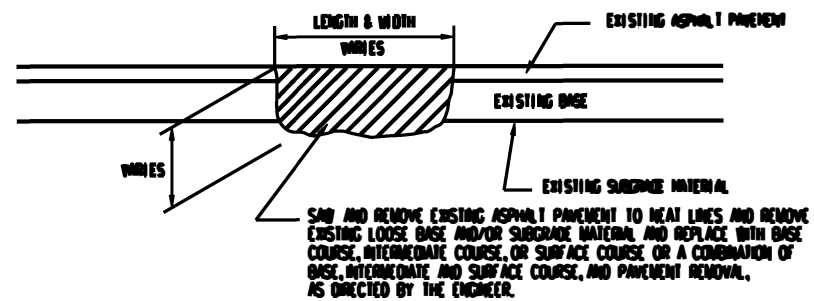
REVISIONS

SYSTEMS
 DESIGN
 NAME

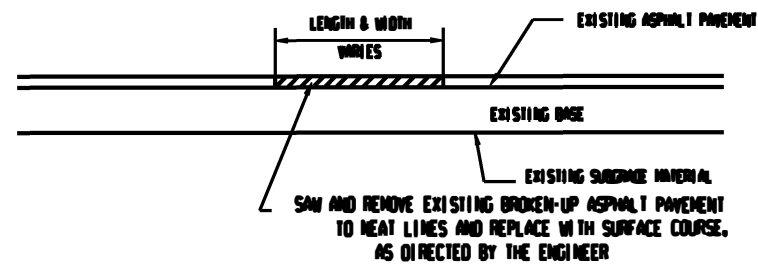
DETAILS OF REPAIRING EXISTING PAVEMENT PRIOR TO RESURFACING FOR FULL DEPTH AND MILLING



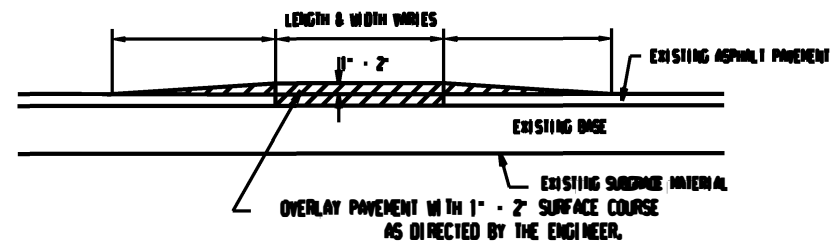
DETAIL NO. 1



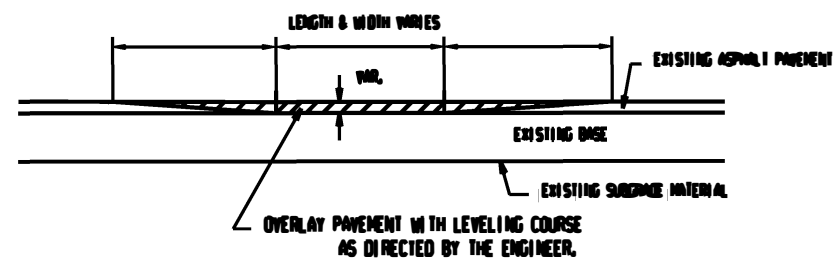
DETAIL NO. 2



DETAIL NO. 3



DETAIL NO. 4



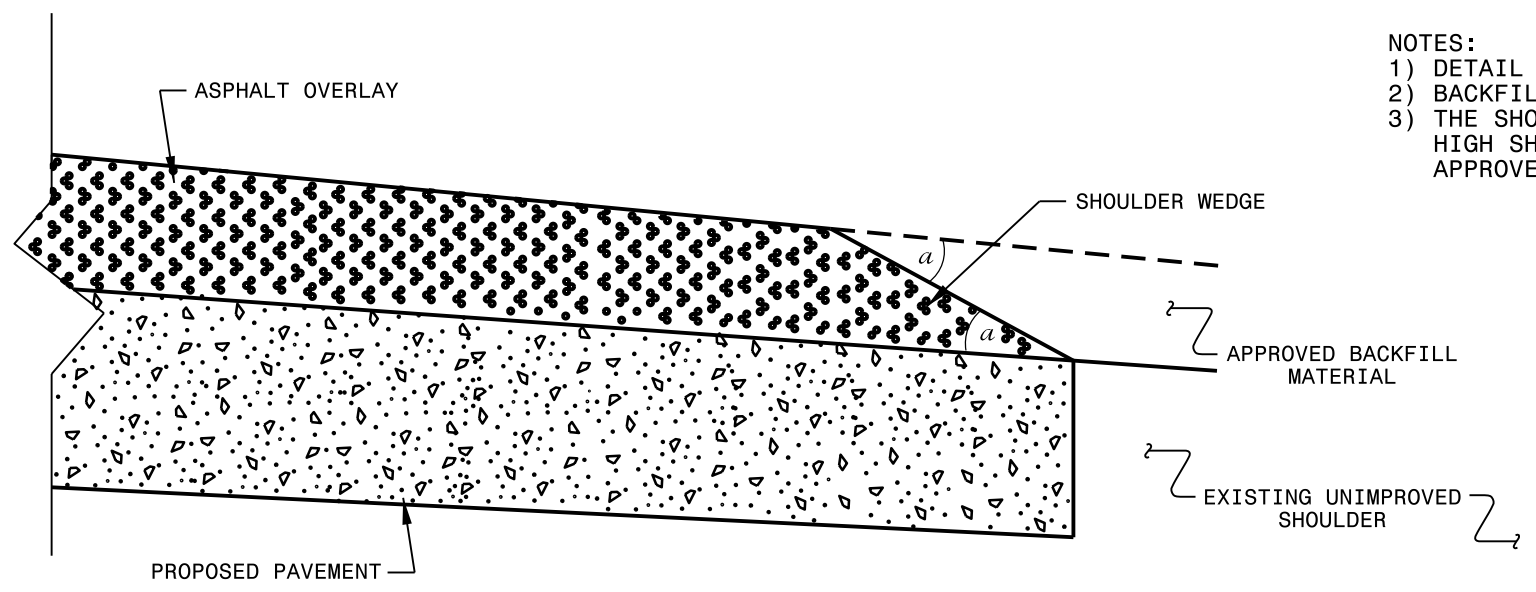
DETAIL NO. 5

REV. 6.0NS

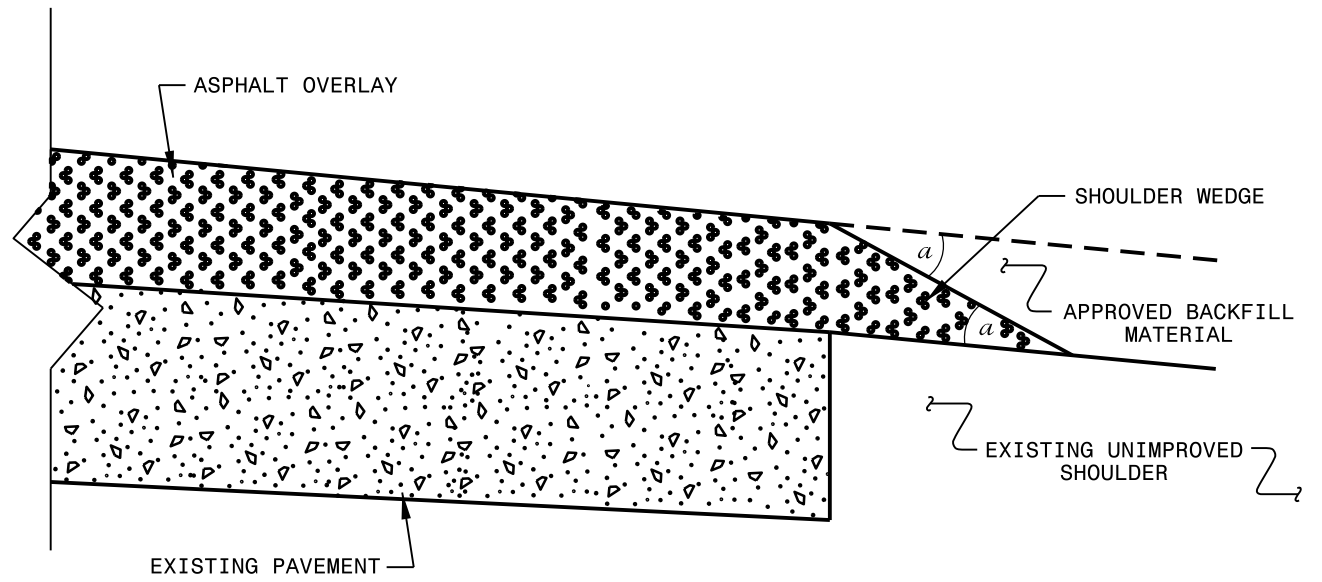
8/17/99

SYSTEMS
 8/17/99

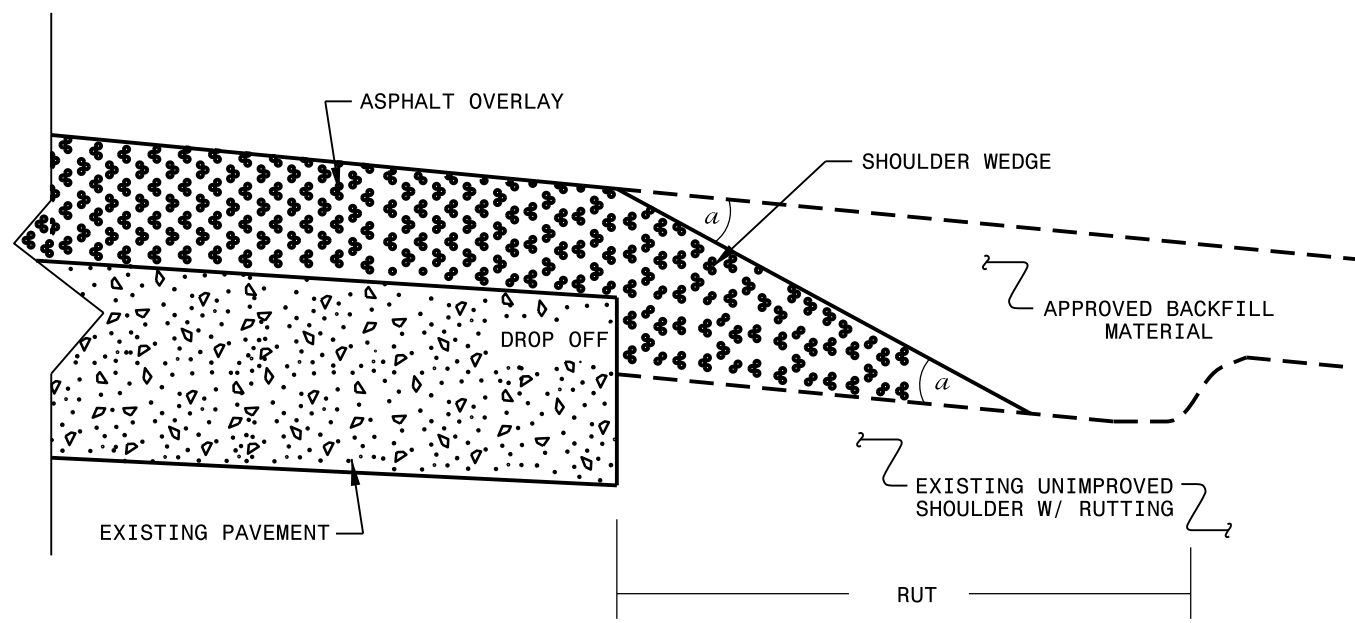
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



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: 2/2/16		
CHECKED BY:	DATE:		
FILE SPEC.: s:\usr\details\stand\shoulderwedgedetail.dgn			

27 JUN 2018 13:22
 s:\usr\details\stand\shoulderwedgedetail.dgn
 3\Sampson August 2018 Revised Shoulder Wedge Detail.dgn
 P:\porter_41_CSD_20152542

PROJECT NO.	SHEET NO.
2024CPT.03.07.10101, ETC.	12

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	BEGIN MP	END MP	0106000000-E	1220000000-E	1245000000-E	1297000000-E		1308000000-E	1330000000-E	1491000000-E	1519000000-E			
														BORROW EXCAVATION	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	1.5" MILLING	1" MILLING	0" - 1.5" MILLING (GENERIC)	INCIDENTAL MILLING	BASE COURSE, B25.0C	SURFACE COURSE, S9.5B			
														MI	FT										
														CY	TON	SMI	SY	SY	SY	SY	TONS	TON			
2024CPT.03.07.10101	Brunswick	1	NC 87 / GEORGE II HIGHWAY	FROM NC HWY 133 TO 1.29 MILES OF SR 1513 (DANFORD RD) [MP 3.61 - MP 9.40]	1	2	2WU	NO	NO	5.79	24	3.61	9.4	706	24	11.58			1,334	814	4,491				
TOTAL FOR MAP NO. 1										5.79				706	24	11.58			1,334	814	4,491				
TOTAL FOR PROJ NO. 2024CPT.03.07.10101										5.79				706	24	11.58			1,334	814	4,491				
2024CPT.03.07.20101	Brunswick	2	SR-1700 / OLD LANVALE RD NE	FROM SR 1438 (LANVALE RD) TO DEAD END [MP 0.00 - MP 0.46]	3	2	2WU	NO	NO	0.46	20	0	0.46	56	26	0.92	3,402			187		510			
TOTAL FOR MAP NO. 2										0.46				56	26	0.92	3,402			187		510			
2024CPT.03.07.20101	Brunswick	3	SR-1426 / MT. MISERY RD NE	FROM MT MISERY RD AT NORTHWEST CITY LIMIT SIGN TO SR 1428 (DOGWOOD RD) [MP 0.99 - MP 3.79]	3	2	2WU	NO	NO	2.8	20	0.99	3.79	342	118	5.60		370	667	455	19	3,367			
TOTAL FOR MAP NO. 3										2.8				342	118	5.60		370	667	455	19	3,367			
2024CPT.03.07.20101	Brunswick	4	SR-1302 / SHINGLETREE RD NW	FROM SR 1303 (HICKMAN RD) TO US HWY 17 [MP 0.00 - MP 1.33]	2	2	2WU	NO	NO	1.33	22	0	1.33	162	15	2.66				618	1,015	1,689			
TOTAL FOR MAP NO. 4										1.33				162	15	2.66				618	1,015	1,689			
2024CPT.03.07.20101	Brunswick	5	SR-1502 / BENTON RD SE	FROM US 17 OCEAN HWY TO OLD OCEAN HWY [MP 0.00 - MP 2.58]	2	2	2WU	NO	NO	2.58	24	0	2.58	315	106	5.16				400	2,001	3,182			
TOTAL FOR MAP NO. 5										2.58				315	106	5.16				400	2,001	3,182			
2024CPT.03.07.20101	Brunswick	6	SR-1733 / RACHEL WYND NE	FROM SR 1415 (BUCKEYE RD) TO SR 1734 (WEBSTER CT) [MP 0.00 - MP 0.57]	5	2	2WU	NO	NO	0.57	20	0	0.57	70	30	1.14		7,028				609			
TOTAL FOR MAP NO. 6										0.57				70	30	1.14		7,028				609			
TOTAL FOR PROJ NO. 2024CPT.03.07.20101										7.74				945	295	15.48	3,402	7,398	667	1,660	3,035	9,357			
														10,800											
2024CPT.03.07.20102	Brunswick	7	SR-1732 / CAROL-LYNN RD NE	FROM OCEAN HWY TO SR 1733 (RACHEL WYND) [MP 0.00 - MP 0.28]	6	2	2WU	NO	NO	0.28	20	0	0.28									186			
TOTAL FOR MAP NO. 7										0.28													186		
2024CPT.03.07.20102	Brunswick	8	SR-1734 / WEBSTER CT NE	FROM 1733 (RACHEL WYND) TO CUL-DE-SAC [MP 0.00 - MP 0.40]	6	2	2WU	NO	NO	0.4	20	0	0.4									312			
TOTAL FOR MAP NO. 8										0.4													312		
2024CPT.03.07.20102	Brunswick	9	SR-1415 / BUCKEYE RD NE	FROM SR 1733 (RACHEL WYND) TO END OF MAINTENANCE [MP 0.18 - MP 0.53]	6	2	2WU	NO	NO	0.35	21	0.18	0.53		10							278			
TOTAL FOR MAP NO. 9										0.35					10							278			
TOTAL FOR PROJ NO. 2024CPT.03.07.20102										1.03					10							776			
GRAND TOTAL										14.56				1,651	329	27.06	3,402	7,398	2,001	2,474	7,526	10,133			

PROJECT NO.	SHEET NO.
2024CPT.03.07.10101, ETC.	13

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	BEGIN MP	END MP	1520000000-E	1523000000-E	1524000000-E	1575000000-E	1705000000-E	1705500000-E	2830000000-N	2845000000-N	6000000000-E	6009000000-E			
														LEVELING COURSE, S9.5B	SURFACE COURSE, S9.5C	LEVELING COURSE, S9.5C	ASPHALT BINDER FOR PLANT MIX	PATCHING EIXSTING PAVEMENT (FULL DEPTH)	PATCHING EXISTING PAVEMENT (MILL)	ADJUSTMENT OF MANHOLES	ADJUSTMENT OF METER OR VALVE BOX	TEMPORARY SILT FENCE	STONE FOR EC CLASS B			
														TON	TON	TON	TON	TON	TON	EA	EA	LF	TON			
2024CPT.03.07.10101	Brunswick	1	NC 87 / GEORGE II HIGHWAY	FROM NC HWY 133 TO 1.29 MI S OF SR 1513 (DANFORD RD) [MP 3.61 - MP 9.40]	1	2	2WU	NO	NO	5.79	24	3.61	9.4		9,386	30	785			562		580	145			
TOTAL FOR MAP NO. 1										5.79					9,386	30	785			562		580	145			
TOTAL FOR PROJ NO. 2024CPT.03.07.10101										5.79					9,386	30	785			562		580	145			
2024CPT.03.07.20101	Brunswick	2	SR-1700 / OLD LANVALE RD NE	FROM SR 1438 (LANVALE RD) TO DEAD END [MP 0.00 - MP 0.46]	3	2	2WU	NO	NO	0.46	20	0	0.46	10			42	48	112	1		46	12			
TOTAL FOR MAP NO. 2										0.46					10		42	48	112	1		46	12			
2024CPT.03.07.20101	Brunswick	3	SR-1426 / MT. MISERY RD NE	FROM MT MISERY RD AT NORTHWEST CITY LIMIT SIGN TO SR 1428 (DOGWOOD RD) [MP 0.99 - MP 3.79]	3	2	2WU	NO	NO	2.8	20	0.99	3.79				237				2	280	70			
TOTAL FOR MAP NO. 3										2.8							237				2	280	70			
2024CPT.03.07.20101	Brunswick	4	SR-1302 / SHINGLETREE RD NW	FROM SR 1303 (HICKMAN RD) TO US HWY 17 [MP 0.00 - MP 1.33]	2	2	2WU	NO	NO	1.33	22	0	1.33	15			170					133	33			
TOTAL FOR MAP NO. 4										1.33					15		170					133	33			
2024CPT.03.07.20101	Brunswick	5	SR-1502 / BENTON RD SE	FROM US 17 OCEAN HWY TO OLD OCEAN HWY [MP 0.00 - MP 2.58]	2	2	2WU	NO	NO	2.58	24	0	2.58	80			316					260	65			
TOTAL FOR MAP NO. 5										2.58					80		316					260	65			
2024CPT.03.07.20101	Brunswick	6	SR-1733 / RACHEL WYND NE	FROM SR 1415 (BUCKEYE RD) TO SR 1734 (WEBSTER CT) [MP 0.00 - MP 0.57]	5	2	2WU	NO	NO	0.57	20	0	0.57				63					60	14			
TOTAL FOR MAP NO. 6										0.57							63					60	14			
TOTAL FOR PROJ NO. 2024CPT.03.07.20101										7.74					105		828	48	1,510	1	2	779	194			
2024CPT.03.07.20102	Brunswick	7	SR-1732 / CAROL-LYNN RD NE	FROM OCEAN HWY TO SR 1733 (RACHEL WYND) [MP 0.00 - MP 0.28]	6	2	2WU	NO	NO	0.28	20	0	0.28				23									
TOTAL FOR MAP NO. 7										0.28							23									
2024CPT.03.07.20102	Brunswick	8	SR-1734 / WEBSTER CT NE	FROM 1733 (RACHEL WYND) TO CUL-DE-SAC [MP 0.00 - MP 0.40]	6	2	2WU	NO	NO	0.4	20	0	0.4				28				1					
TOTAL FOR MAP NO. 8										0.4							28				1					
2024CPT.03.07.20102	Brunswick	9	SR-1415 / BUCKEYE RD NE	FROM SR 1733 (RACHEL WYND) TO END OF MAINTENANCE [MP 0.18 - MP 0.53]	6	2	2WU	NO	NO	0.35	21	0.18	0.53				26									
TOTAL FOR MAP NO. 9										0.35							26					163				
TOTAL FOR PROJ NO. 2024CPT.03.07.20102										1.03							77				1					
GRAND TOTAL															14.56		105	9,386	30	1,690	48	2,635	1	3	1,359	339

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	BEGIN MP	END MP	6012000000-E	6015000000-E	6018000000-E	6021000000-E	6036000000-E	6042000000-E	6071010000-E	6084000000-E	6090000000-E	6093000000-E	6117000000-N	7444000000-E
														SEDIMENT CONTROL STONE	TEMPORARY MULCHING	SEED FOR TEMPORARY SEEDING	FERTILIZER FOR TEMPORARY SEEDING	MATTING FOR EROSION CONTROL	1/4" HARDWARE CLOTH	WATTLE	SEED & MULCHING	SEED FOR REPAIR SEEDING	FERTILIZER FOR REPAIR SEEDING	RESPONSE FOR EROSION CONTROL	INDUCTIVE LOOP SAWCUT
														MI	FT										
2024CPT.03.07.10101	Brunswick	1	NC 87 / GEORGE II HIGHWAY	FROM NC HWY 133 TO 1.29 MI S OF SR 1513 (DANFORD RD) [MP 3.61 - MP 9.40]	1	2	2WU	NO	NO	5.79	24	3.61	9.4	145	5.80	290	1.45	40	290	90	5.60	290	1.45	12	400
TOTAL FOR MAP NO. 1										5.79				145	5.80	290	1.45	40	290	90	5.60	290	1.45	12	400
TOTAL FOR PROJ NO. 2024CPT.03.07.10101										5.79				145	5.80	290	1.45	40	290	90	5.60	290	1.45	12	400
2024CPT.03.07.20101	Brunswick	2	SR-1700 / OLD LANVALE RD NE	FROM SR 1438 (LANVALE RD) TO DEAD END [MP 0.00 - MP 0.46]	3	2	2WU	NO	NO	0.46	20	0	0.46	12	0.50	25	0.12	10	25	10	0.45	25	0.12	2	
TOTAL FOR MAP NO. 2										0.46				12	0.50	25	0.12	10	25	10	0.45	25	0.12	2	
2024CPT.03.07.20101	Brunswick	3	SR-1426 / MT. MISERY RD NE	FROM MT MISERY RD AT NORTHWEST CITY LIMIT SIGN TO SR 1428 (DOGWOOD RD) [MP 0.99 - MP 3.79]	3	2	2WU	NO	NO	2.8	20	0.99	3.79	70	2.80	140	0.70	20	140	50	2.70	140	0.70	12	
TOTAL FOR MAP NO. 3										2.8				70	2.80	140	0.70	20	140	50	2.70	140	0.70	12	
2024CPT.03.07.20101	Brunswick	4	SR-1302 / SHINGLETREE RD NW	FROM SR 1303 (HICKMAN RD) TO US HWY 17 [MP 0.00 - MP 1.33]	2	2	2WU	NO	NO	1.33	22	0	1.33	33	1.33	67	0.33	10	65	20	1.30	67	0.33	3	
TOTAL FOR MAP NO. 4										1.33				33	1.33	67	0.33	10	65	20	1.30	67	0.33	3	
2024CPT.03.07.20101	Brunswick	5	SR-1502 / BENTON RD SE	FROM US 17 OCEAN HWY TO OLD OCEAN HWY [MP 0.00 - MP 2.58]	2	2	2WU	NO	NO	2.58	24	0	2.58	65	2.60	130	0.65	20	130	40	2.50	130	1.30	5	
TOTAL FOR MAP NO. 5										2.58				65	2.60	130	0.65	20	130	40	2.50	130	1.30	5	
2024CPT.03.07.20101	Brunswick	6	SR-1733 / RACHEL WYND NE	FROM SR 1415 (BUCKEYE RD) TO SR 1734 (WEBSTER CT) [MP 0.00 - MP 0.57]	5	2	2WU	NO	NO	0.57	20	0	0.57	14	0.60	30	0.15	10	30	20	0.55	30	0.15	2	
TOTAL FOR MAP NO. 6										0.57				14	0.60	30	0.15	10	30	20	0.55	30	0.15	2	
TOTAL FOR PROJ NO. 2024CPT.03.07.20101										7.74				194	7.83	392	1.95	70	390	140	7.50	392	2.60	24	
2024CPT.03.07.20102	Brunswick	7	SR-1732 / CAROL-LYNN RD NE	FROM OCEAN HWY TO SR 1733 (RACHEL WYND) [MP 0.00 - MP 0.28]	6	2	2WU	NO	NO	0.28	20	0	0.28												
TOTAL FOR MAP NO. 7										0.28															
2024CPT.03.07.20102	Brunswick	8	SR-1734 / WEBSTER CT NE	FROM 1733 (RACHEL WYND) TO CUL-DE-SAC [MP 0.00 - MP 0.40]	6	2	2WU	NO	NO	0.4	20	0	0.4												
TOTAL FOR MAP NO. 8										0.4															
2024CPT.03.07.20102	Brunswick	9	SR-1415 / BUCKEYE RD NE	FROM SR 1733 (RACHEL WYND) TO END OF MAINTENANCE [MP 0.18 - MP 0.53]	6	2	2WU	NO	NO	0.35	21	0.18	0.53												
TOTAL FOR MAP NO. 9										0.35															
TOTAL FOR PROJ NO. 2024CPT.03.07.20102										1.03															
GRAND TOTAL										14.56				339	13.63	682	3.40	110	680	230	13.10	682	4.05	36	400

PROJECT NO.	SHEET NO.
2024CPT.03.07.10101, ETC.	15

THERMOPLASTIC AND PAINT QUANTITIES

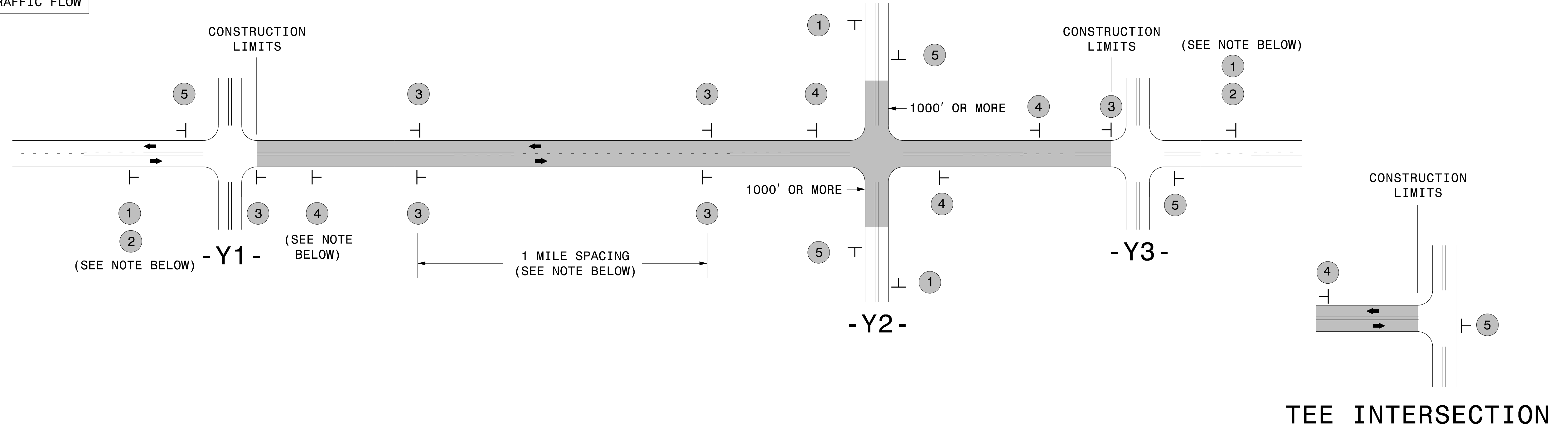
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	4413000000-E	4457000000-N	4510000000-N	4685000000-E		4695000000-E		4704000000-E	4709000000-E					
												WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	LAW ENFORCEMENT	4" X 90 M YELLOW THERMO	4" X 90 M WHITE THERMO	8" X 90 M YELLOW THERMO	8" X 90 M WHITE THERMO	THERMOPLASTIC PAVEMENT MARKING LINES (16" X 90 MILS)	THERMOPLASTIC PAVEMENT MARKING LINES (24" X 90 MILS)					
												SF	LS	HR	LF	LF	LF	LF	LF	LF					
2024CPT.03.07.10101	Brunswick	1	NC 87 / GEORGE II HIGHWAY	FROM NC HWY 133 TO 1.29 MI S OF SR 1513 (DANFORD RD) [MP 3.61 - MP 9.40]	1	2	2WU	5.79	24	3.61	9.4	656	*		80	35,710	62,476	365	160	237					
TOTAL FOR MAP NO. 1								5.79				656			80	35,710	62,476	365	160	237					
TOTAL FOR PROJ NO. 2024CPT.03.07.10101								5.79				656	*		80	35,710	62,476	365	160	237					
												98,186		525											
2024CPT.03.07.20101	Brunswick	2	SR-1700 / OLD LANVALE RD NE	FROM SR 1438 (LANVALE RD) TO DEAD END [MP 0.00 - MP 0.46]	3	2	2WU	0.46	20	0	0.46					4,644	4,796								
TOTAL FOR MAP NO. 2								0.46									4,644	4,796							
2024CPT.03.07.20101	Brunswick	3	SR-1426 / MT. MISERY RD NE	FROM MT MISERY RD AT NORTHWEST CITY LIMIT SIGN TO SR 1428 (DOGWOOD RD) [MP 0.99 - MP 3.79]	3	2	2WU	2.8	20	0.99	3.79	320				21,744	29,493	159		51					
TOTAL FOR MAP NO. 3								2.8					320				21,744	29,493	159		51				
2024CPT.03.07.20101	Brunswick	4	SR-1302 / SHINGLETREE RD NW	FROM SR 1303 (HICKMAN RD) TO US HWY 17 [MP 0.00 - MP 1.33]	2	2	2WU	1.33	22	0	1.33		*			14,257	14,330	100		40					
TOTAL FOR MAP NO. 4								1.33									14,257	14,330	100		40				
2024CPT.03.07.20101	Brunswick	5	SR-1502 / BENTON RD SE	FROM US 17 OCEAN HWY TO OLD OCEAN HWY [MP 0.00 - MP 2.58]	2	2	2WU	2.58	24	0	2.58	288				23,321	27,240			130					
TOTAL FOR MAP NO. 5								2.58					288				23,321	27,240			130				
2024CPT.03.07.20101	Brunswick	6	SR-1733 / RACHEL WYND NE	FROM SR 1415 (BUCKEYE RD) TO SR 1734 (WEBSTER CT) [MP 0.00 - MP 0.57]	5	2	2WU	0.57	20	0	0.57														
TOTAL FOR MAP NO. 6								0.57																	
TOTAL FOR PROJ NO. 2024CPT.03.07.20101								7.74					608	*		63,966	75,859	259			221				
												139,825		259											
2024CPT.03.07.20102	Brunswick	7	SR-1732 / CAROL-LYNN RD NE	FROM OCEAN HWY TO SR 1733 (RACHEL WYND) [MP 0.00 - MP 0.28]	6	2	2WU	0.28	20	0	0.28														
TOTAL FOR MAP NO. 7								0.28																	
2024CPT.03.07.20102	Brunswick	8	SR-1734 / WEBSTER CT NE	FROM 1733 (RACHEL WYND) TO CUL-DE-SAC [MP 0.00 - MP 0.40]	6	2	2WU	0.4	20	0	0.4														
TOTAL FOR MAP NO. 8								0.4																	
2024CPT.03.07.20102	Brunswick	9	SR-1415 / BUCKEYE RD NE	FROM SR 1733 (RACHEL WYND) TO END OF MAINTENANCE [MP 0.18 - MP 0.53]	6	2	2WU	0.35	21	0.18	0.53								40	20					
TOTAL FOR MAP NO. 9								0.35												40	20				
TOTAL FOR PROJ NO. 2024CPT.03.07.20102								1.03							*						40	20			
GRAND TOTAL												14.56					1,264	1,000	80	99,676	138,335	624	160	40	478
												238,011		784											

SIGNING FOR RESURFACING PROJECTS

LEGEND

┃ STATIONARY SIGN

← DIRECTION OF TRAFFIC FLOW



MAINLINE (-L-) SIGNING

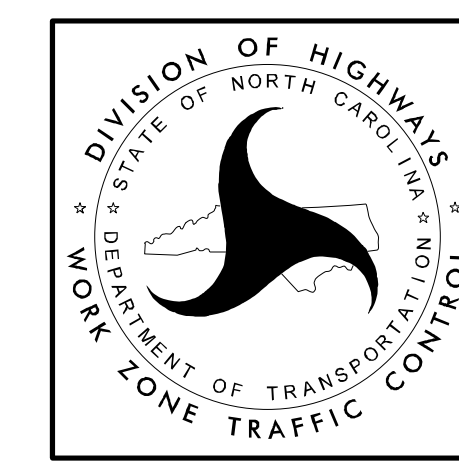
-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	1	 W20-1 48" X 48"	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.	NO REQUIRED STATIONARY SIGNING 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 style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> W20-1 48" X 48" PLACED 500' IN ADVANCE OF FLAGGER. </div> <div style="text-align: center;"> W20-7 A 48" X 48" PLACED 250' IN ADVANCE OF FLAGGER. </div> </div>
	2	 W7-3aP 24" X 18"	#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)	
	3	 SP 13107 48" X 48"	- 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.	
	4	 SP 13106 48" X 48"	- 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.	
	5	 G20-2 A 48" X 24"	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.	

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.

MAPS LESS THAN 2 MILES

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.



ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN 2-LANE ROADWAY RESURFACING

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

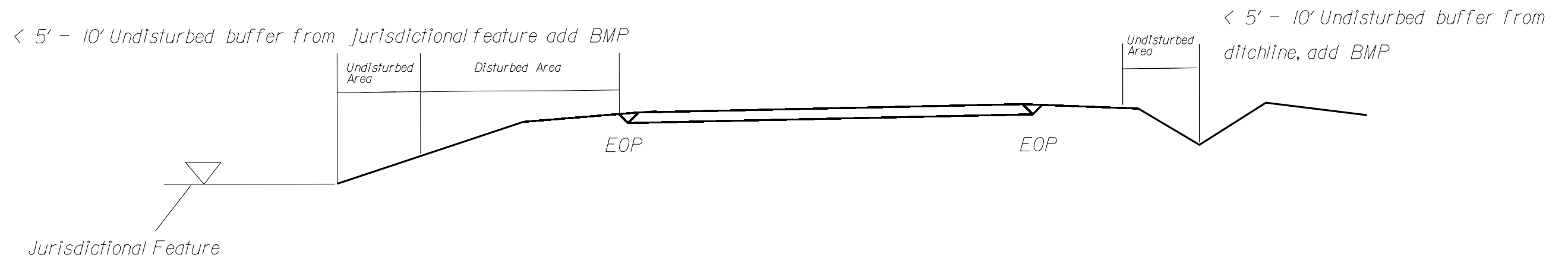
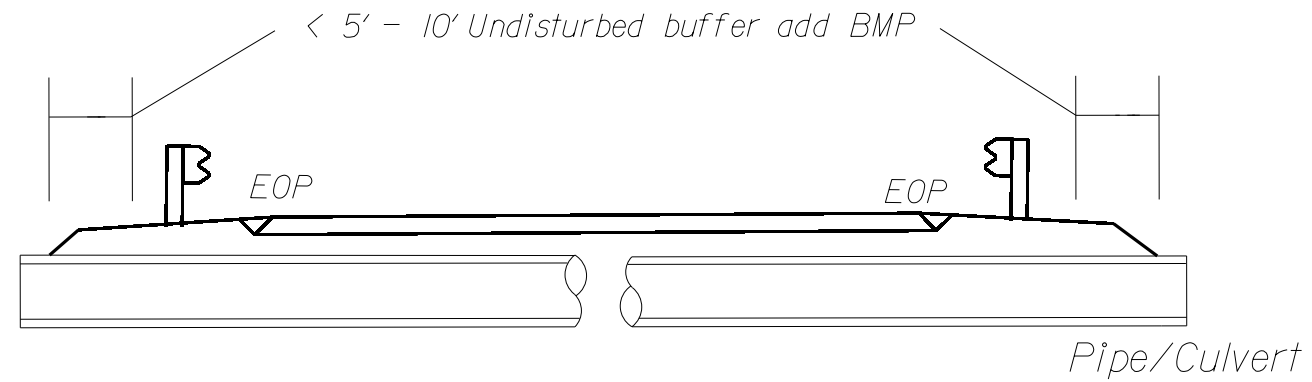
SOIL STABILIZATION TIMEFRAMES

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
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.

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

BMP Options: Wattle or Silt Fence

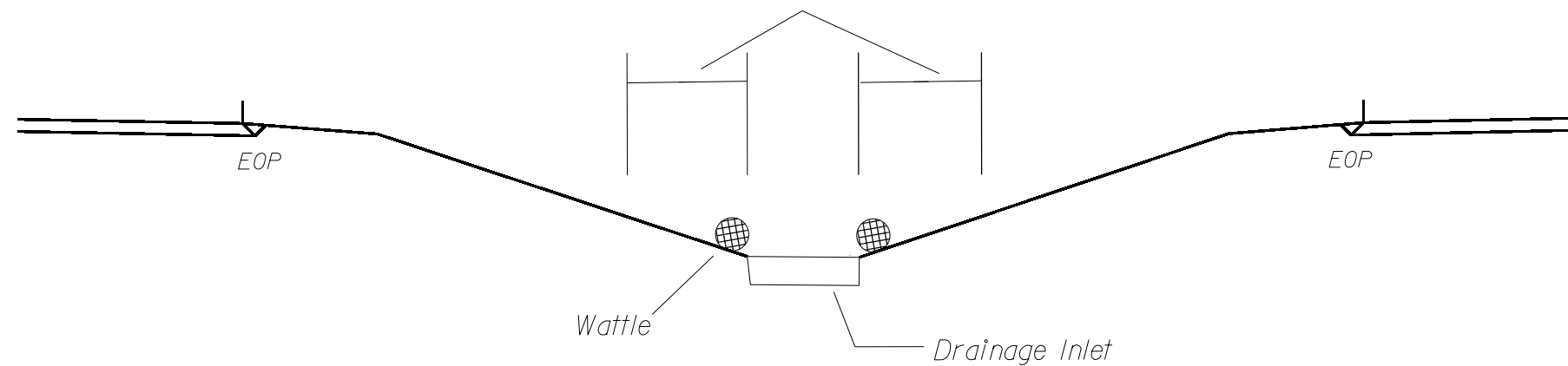
EROSION CONTROL DETAIL



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

NOTES

- OVERLAP SAW CUTS AT CORNERS AND INTERSECTION POINTS TO ENSURE UNIFORM SAW SLOT DEPTH.
- MAINTAIN 12" SPACING BETWEEN LOOP WIRE TAIL SECTIONS.
- WIRE LOOPS CONNECTED TO THE SAME DETECTOR IN SERIES.
- LOCATE LOOPS IN CENTER OF LANES UNLESS OTHERWISE SHOWN ON PLANS.
- USE A SERIES OF ONE INCH PIECES OF BACKER ROD SPACED ONE FOOT APART ALONG THE ENTIRE LENGTH OF THE FEEDER SLOT AND LOOP SAW SLOT.
- CONSULT LOOP SEALANT MANUFACTURER TO DETERMINE CURING TIME REQUIRED PRIOR TO MILLING.
- REFER TO STANDARD DRAWING 1725.01 SHEETS 2 AND 3 FOR ADDITIONAL REQUIREMENTS.

SAW SLOT DEPTH CHART
ASSUMING 2" MILLING DEPTH

DEPTH (IN)	MAX NO. OF WIRE LAYERS				
	2	3	4	5	6
SAW SLOT DEPTH	4.0	4.5	5.0	5.0	5.0
MINIMUM TOTAL ASPHALT DEPTH REQUIRED	5.0	5.5	6.0	6.0	6.0

LOOP WIRE TWISTING METHOD

INCORRECT WAY TO TWIST WIRE

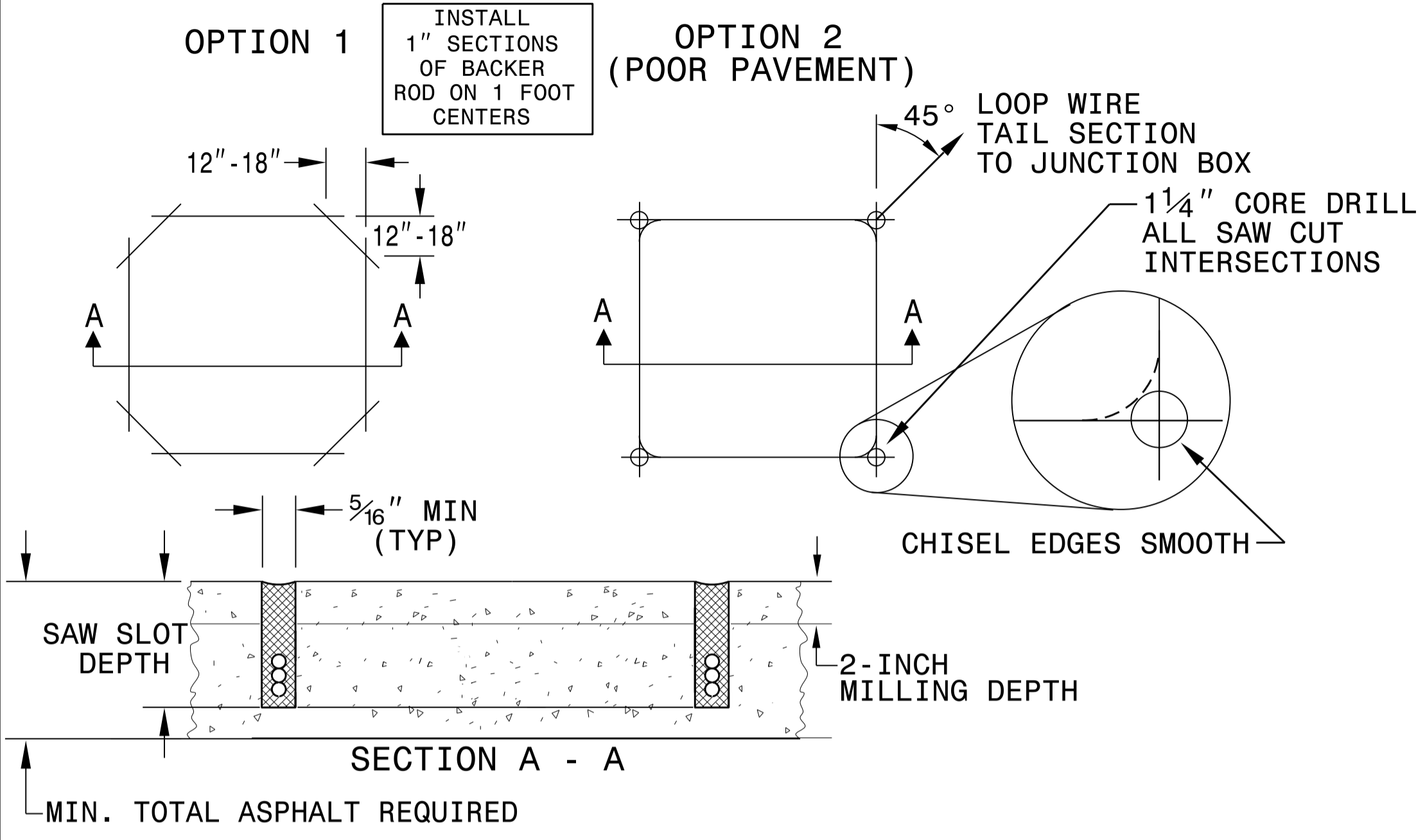


CORRECT WAY TO TWIST WIRE

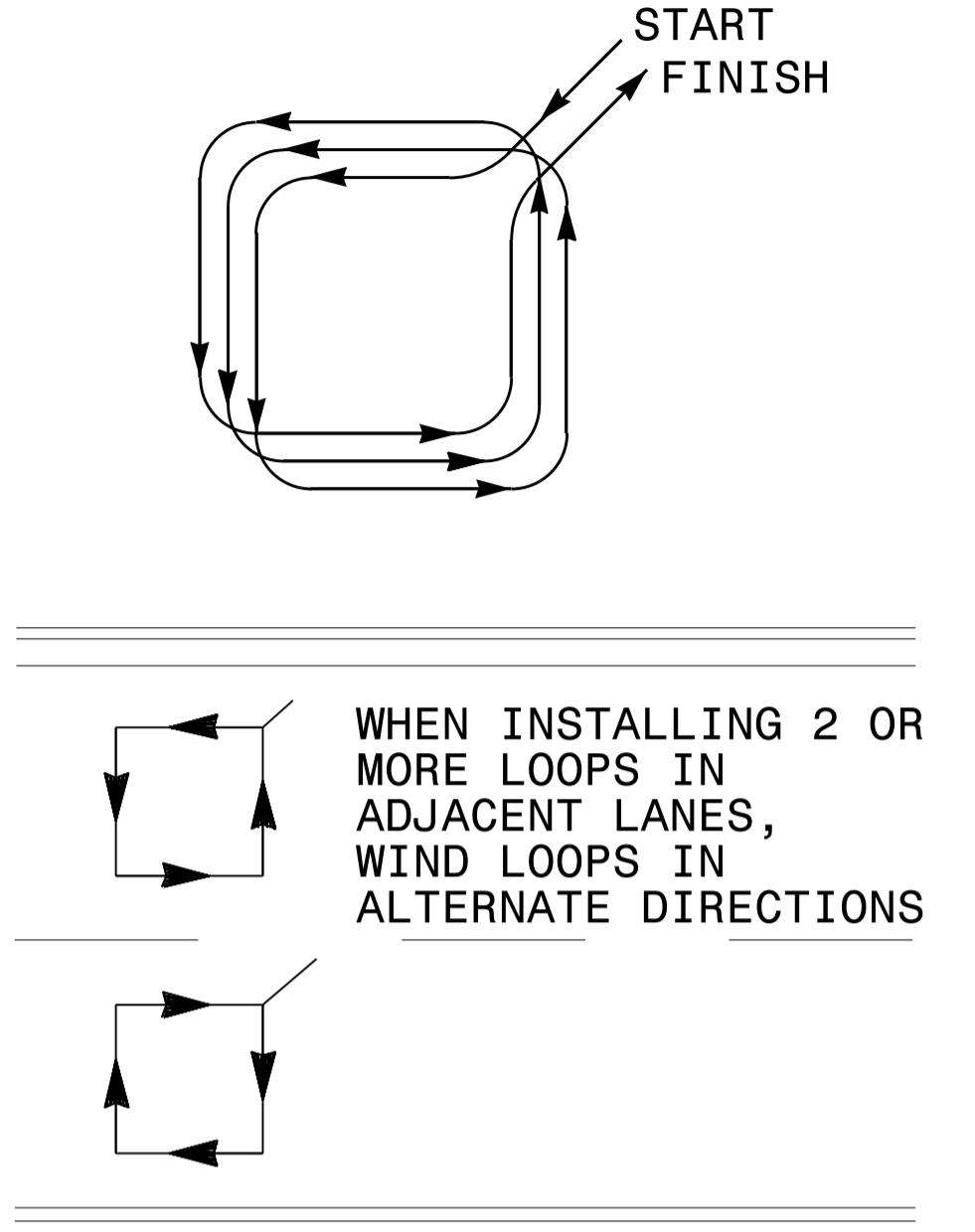


CONVENTIONAL 4-SIDED LOOP

SAW CUT OPTIONS

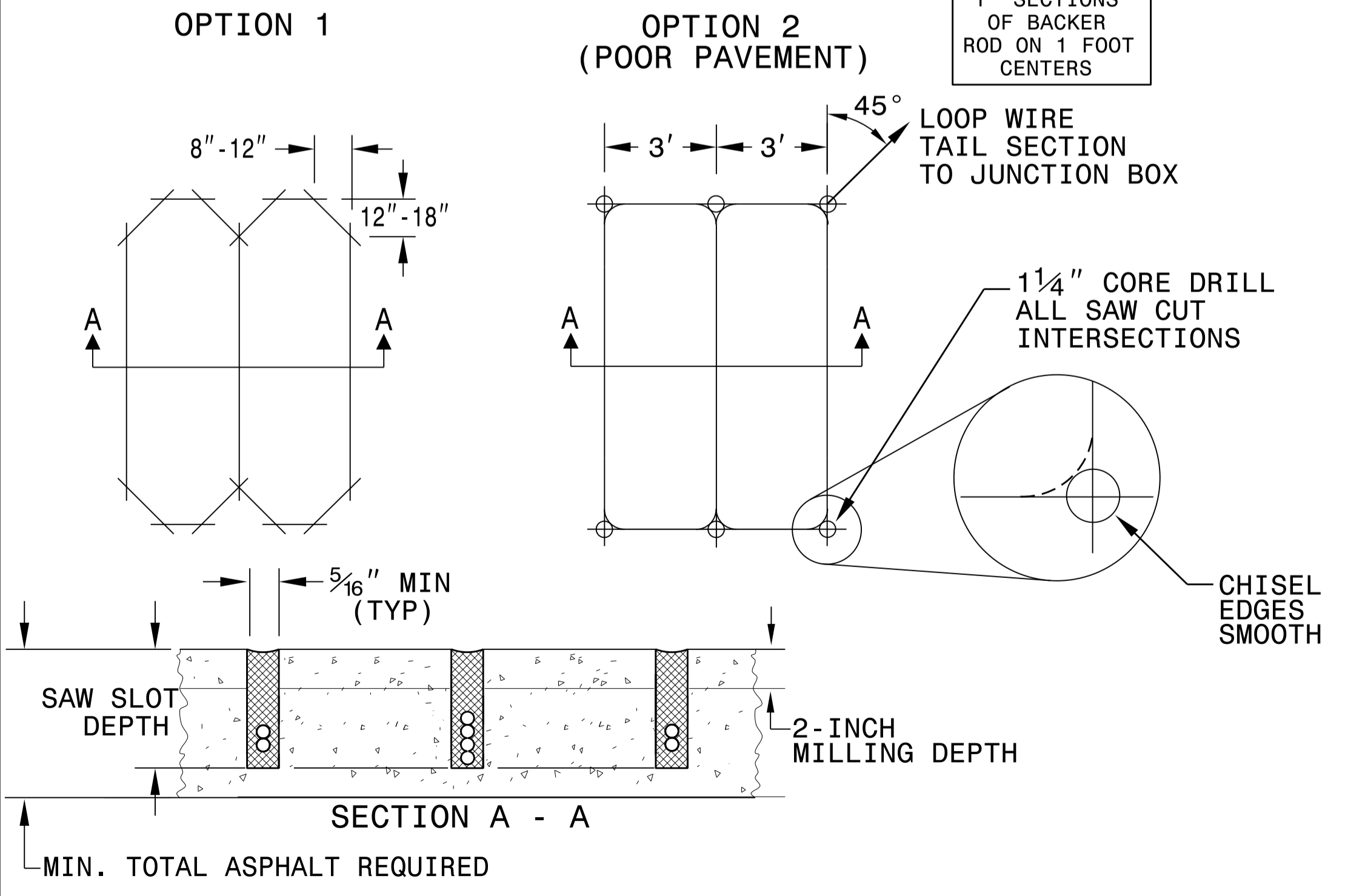


LOOP WINDING METHOD

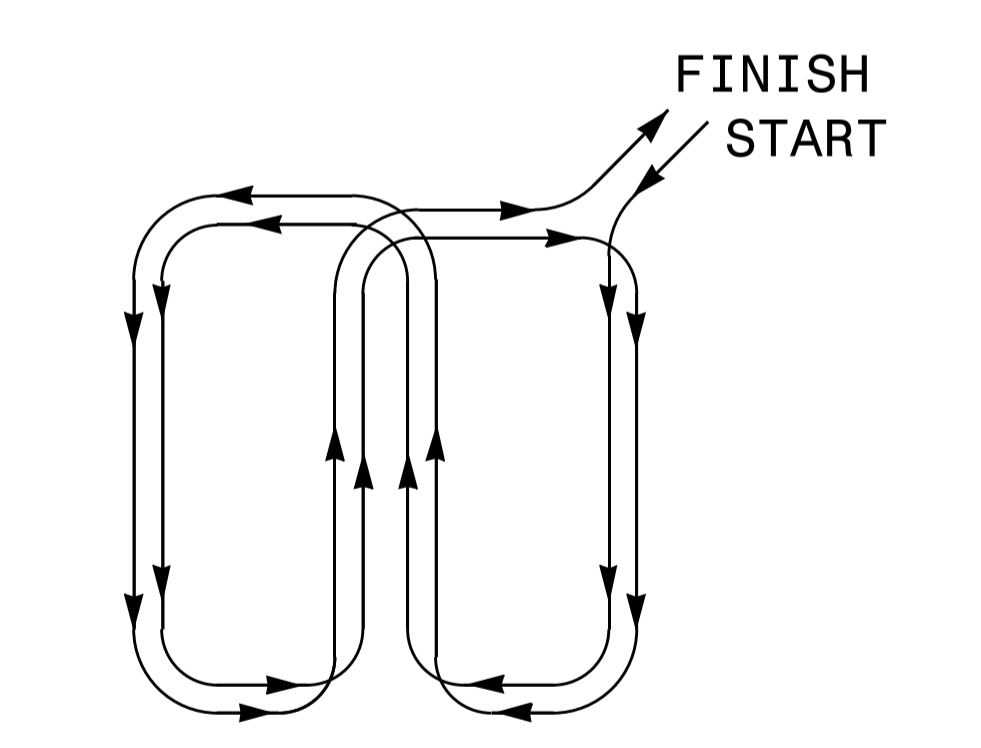


QUADRUPOLE LOOP

SAW CUT OPTIONS



LOOP WINDING METHOD



REVISIONS

1. REMOVED TWISTING NOTES FROM TAIL SECT. TO JUNCTION BOX. 2/26/08 MWH
2. REVISED SECTION A - A DETAILS. 6/29/15 JTP

