WBS: 2027CPT.03.12.20821

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

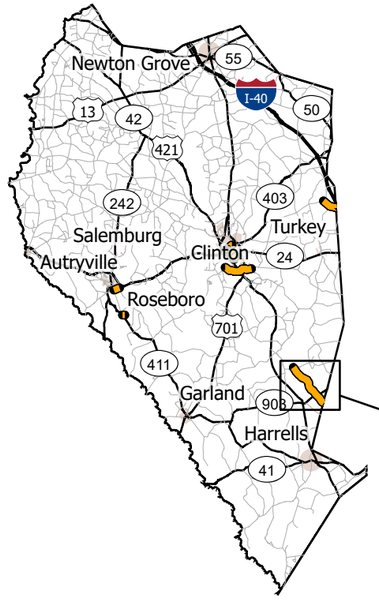
SAMPSON COUNTY

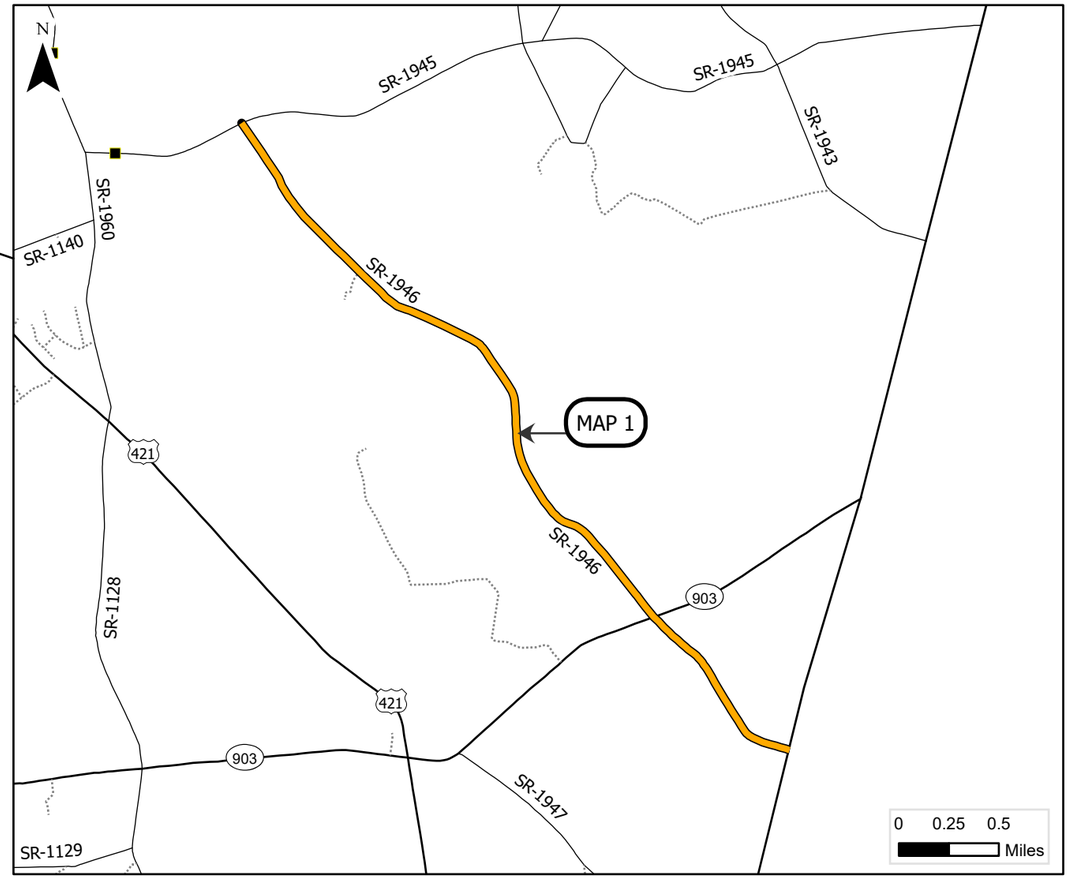
TYPE OF WORK: Resurfacing

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2027CPT.03.12.20821	1
STATE PROJECT NUMBER		DESCRIPTION

Resurfacing

Division 3 Bridges





MAP	ROUTE	DESCRIPTION	TYPE
1	SR-1946 / ROGERS MILL RD	FROM DUPLIN COUNTY LINE TO SR 1945 (TRINITY CHURCH RD) [MP 0.00 - MP 4.33]	Resurfacing

PROJECT LENGTH

MAP	MILES
1	4.33

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: 2027CPT.03.12.20821

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SAMPSON COUNTY

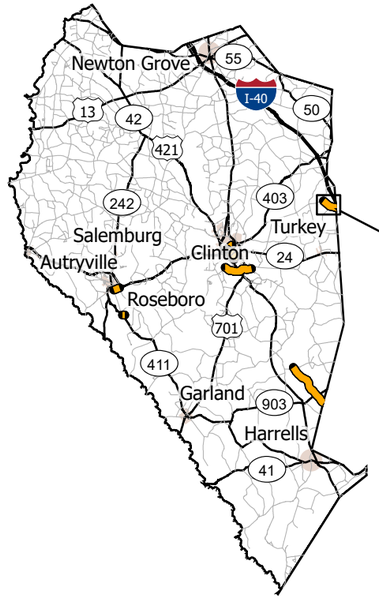
TYPE OF WORK: Resurfacing

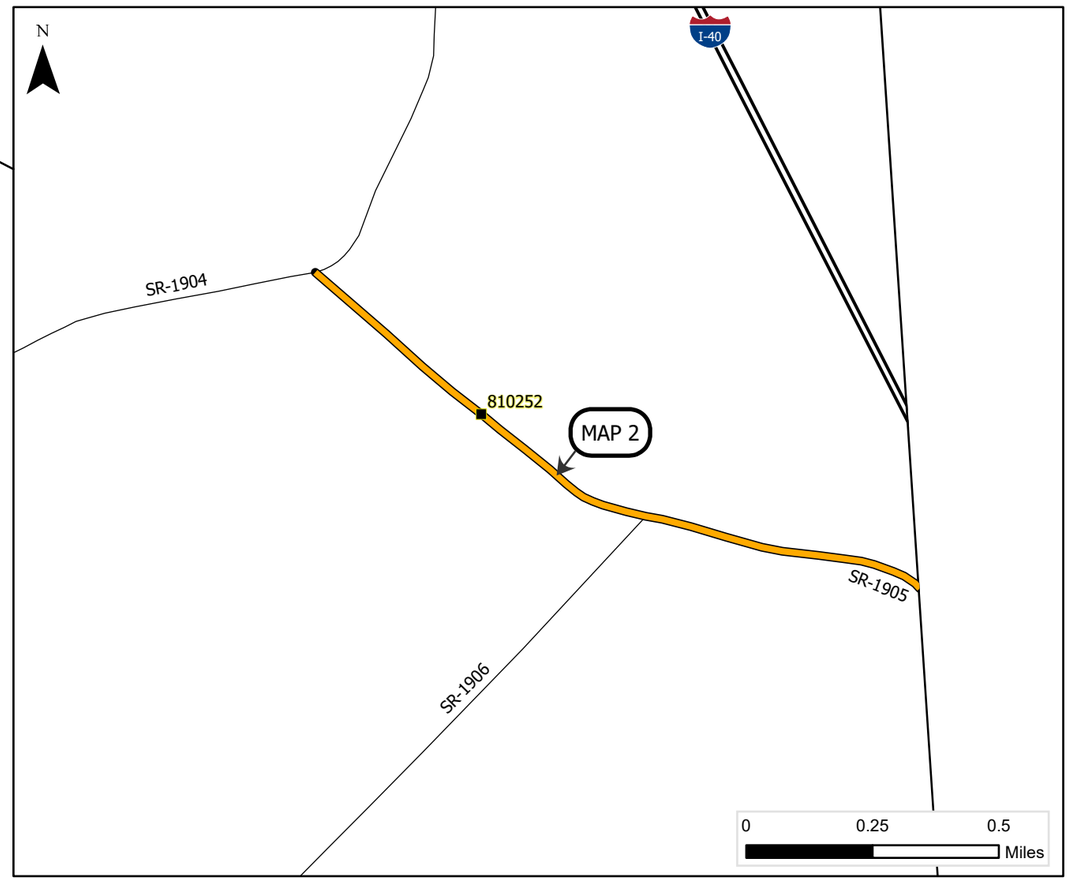
STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2027CPT.03.12.20821	2

STATE PROJECT NUMBER	DESCRIPTION

Resurfacing

Division 3 Bridges





MAP	ROUTE	DESCRIPTION	TYPE
2	SR-1905 / W MCGOWAN RD	FROM DUPLIN COUNTY LINE TO SR 1904 (PINE RIDGE RD) [MP 0.00 - MP 1.39]	Resurfacing

PROJECT LENGTH

MAP	MILES
2	1.39

Prepared in the Office of:

DIVISION OF HIGHWAYS

5501 BARBADOS BLVD., CASTLE HAYNE, NC, 28429

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WBS: 2027CPT.03.12.20821

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

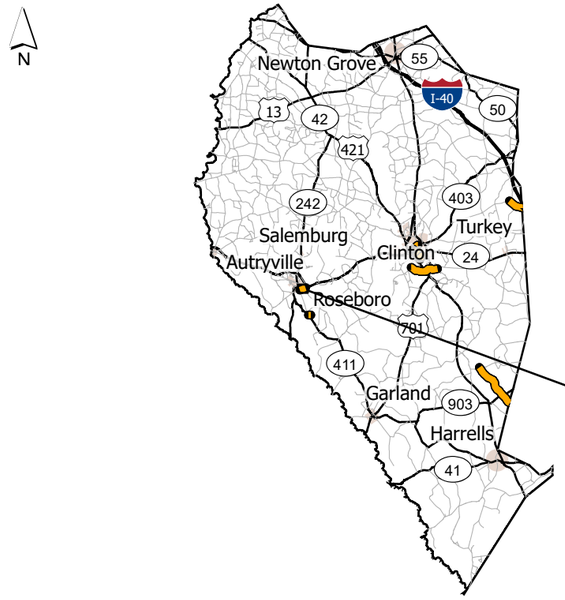
SAMPSON COUNTY

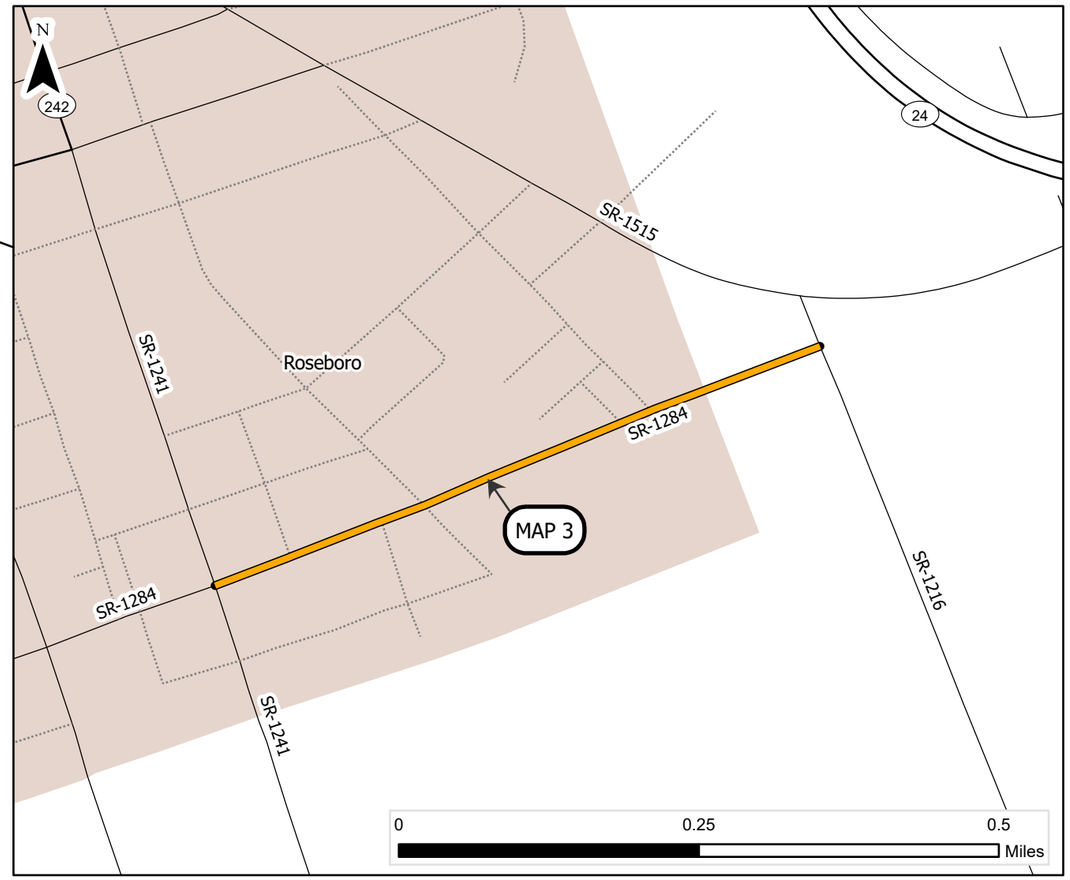
TYPE OF WORK: Resurfacing

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2027CPT.03.12.20821	3

STATE PROJECT NUMBER	DESCRIPTION

Resurfacing





MAP	ROUTE	DESCRIPTION	TYPE
3	SR-1284 / E PINEWOOD ST	FROM SR 1241 (SOUTH EAST ST) TO SR 1216 (ANDREWS CHAPEL RD) [MP 0.61 - MP 1.15]	Resurfacing

PROJECT LENGTH

MAP	MILES
3	0.54

Prepared in the Office of:

DIVISION OF HIGHWAYS

5501 BARBADOS BLVD., CASTLE HAYNE, NC, 28429

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

WBS: 2027CPT.03.12.20821

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SAMPSON COUNTY

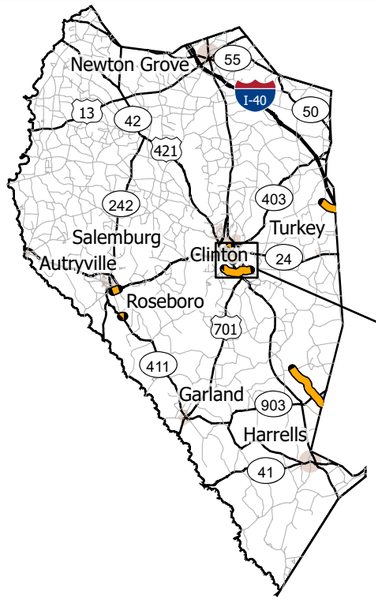
TYPE OF WORK: Resurfacing

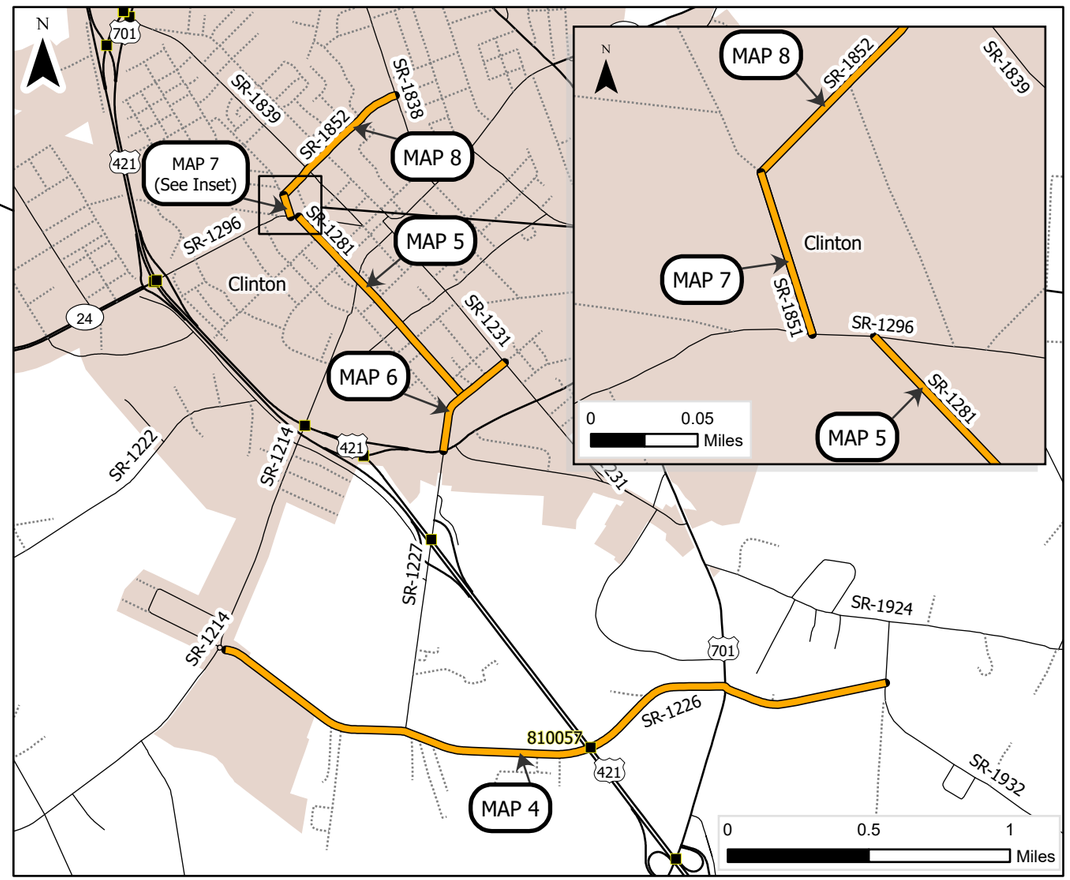
STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2027CPT.03.12.20821	4

STATE PROJECT NUMBER	DESCRIPTION

Resurfacing

Division 3 Bridges





MAP	ROUTE	DESCRIPTION	TYPE
4	SR-1226 / INDIAN TOWN RD	FROM SR 1932 (REEDSFORD RD) TO SR 1214 (ELIZABETH ST) [MP 0.00 - MP 2.54]	Resurfacing
5	SR-1281 / CHESTNUTT ST / FERRELL ST	FROM SR 1296 (FAYETTEVILLE ST) TO SR 1227 (W BUTLER AVE) [MP 0.00 - MP 0.86]	Resurfacing
6	SR-1227 / W BUTLER AVE	FROM NC HWY 24 TO SR 1231 (LISBON ST) [MP 1.02 - MP 1.40]	Resurfacing
7	SR-1851 / WILLIAMS ST	FROM SR 1852 (W JOHNSON ST) TO SR 1296 (FAYETTEVILLE ST) [MP 0.00 - MP 0.08]	Resurfacing
8	SR-1852 / W JOHNSON ST / E JOHNSON ST	FROM SR 1851 (WILLIAMS ST) TO SR 1838 (BEAMAN ST) [MP 0.00 - MP 0.54]	Resurfacing

PROJECT LENGTH

MAP	MILES
4	2.54
5	0.86
6	0.38

MAP	MILES
7	0.08
8	0.54

Prepared in the Office of:

DIVISION OF HIGHWAYS

5501 BARBADOS BLVD., CASTLE HAYNE, NC, 28429

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WBS: 2027CPT.03.12.20821

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

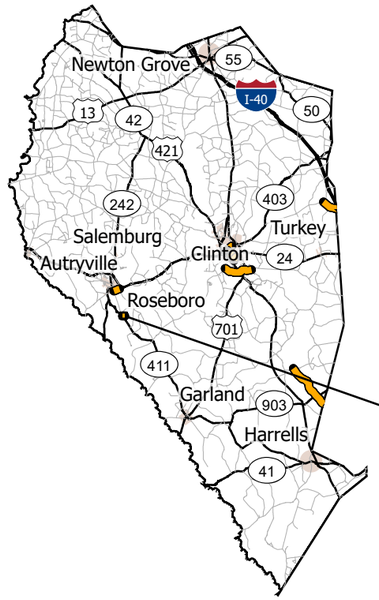
SAMPSON COUNTY

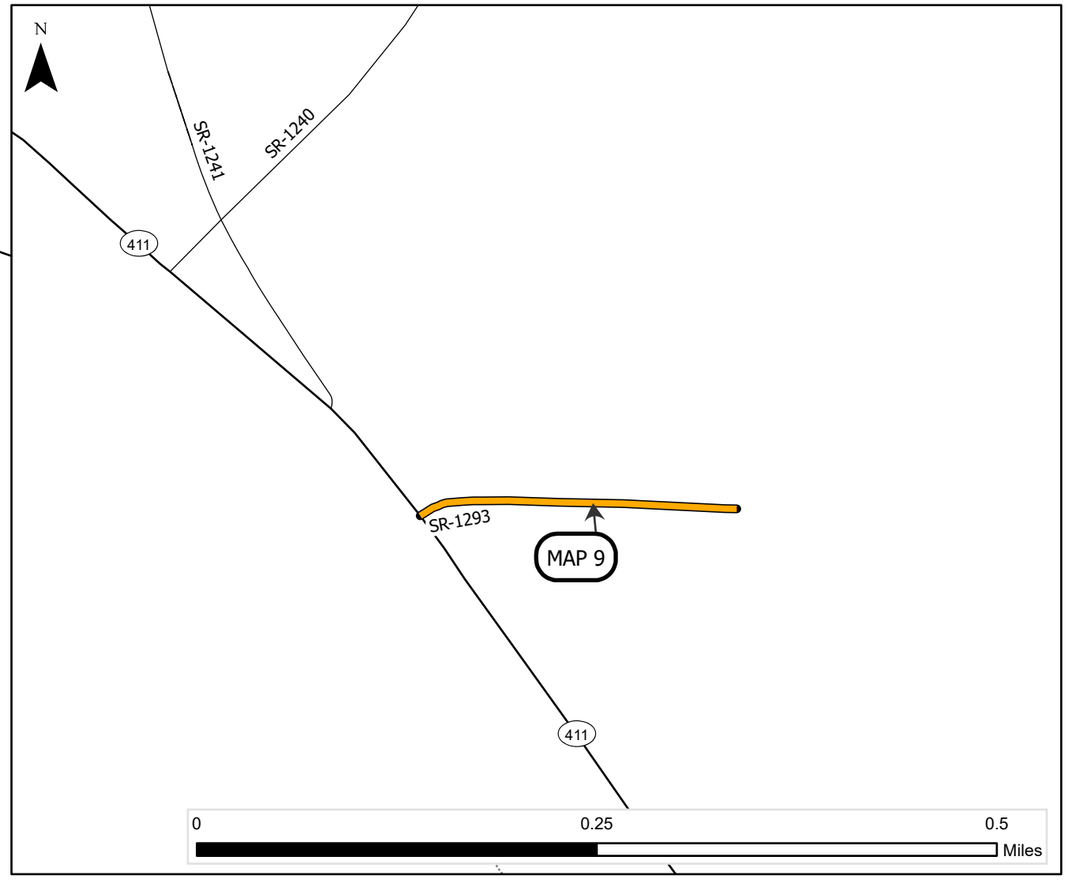
TYPE OF WORK: Resurfacing

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2027CPT.03.12.20821	5

STATE PROJECT NUMBER	DESCRIPTION

Resurfacing





MAP	ROUTE	DESCRIPTION	TYPE
9	SR-1293 / WILLIE BROWN RD	FROM NC HWY 411 TO EOM [MP 0.00 - MP 0.20]	Resurfacing

PROJECT LENGTH

MAP	MILES
9	0.20

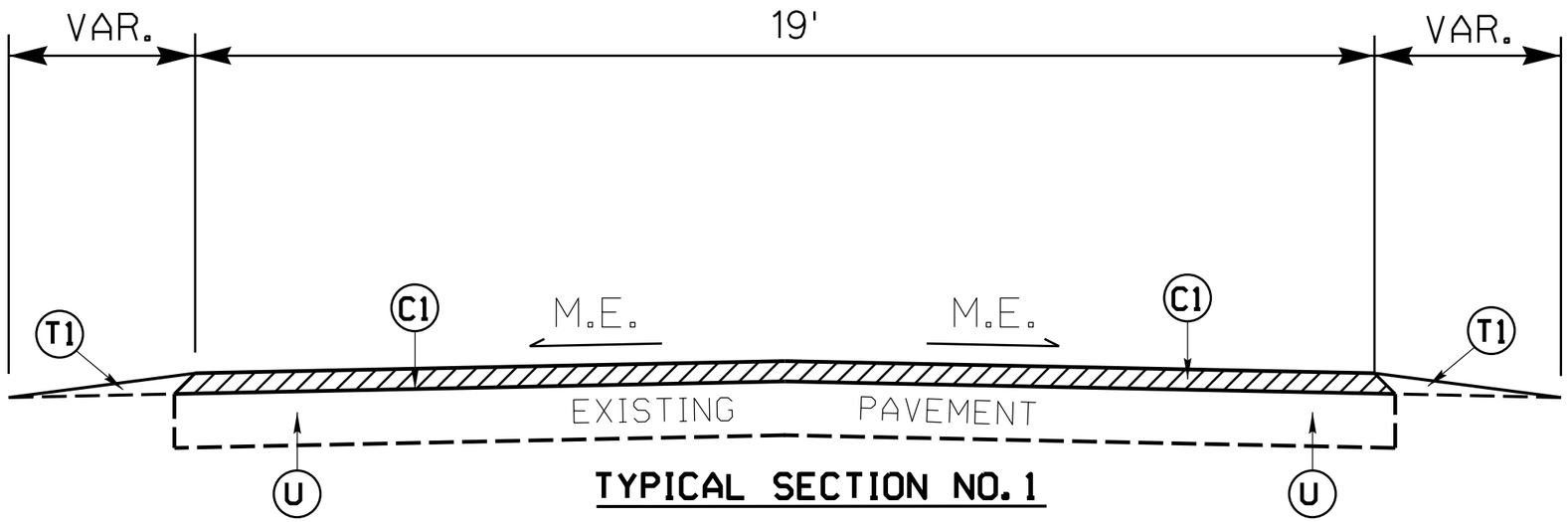
Prepared in the Office of:

DIVISION OF HIGHWAYS

5501 BARBADOS BLVD., CASTLE HAYNE, NC, 28429

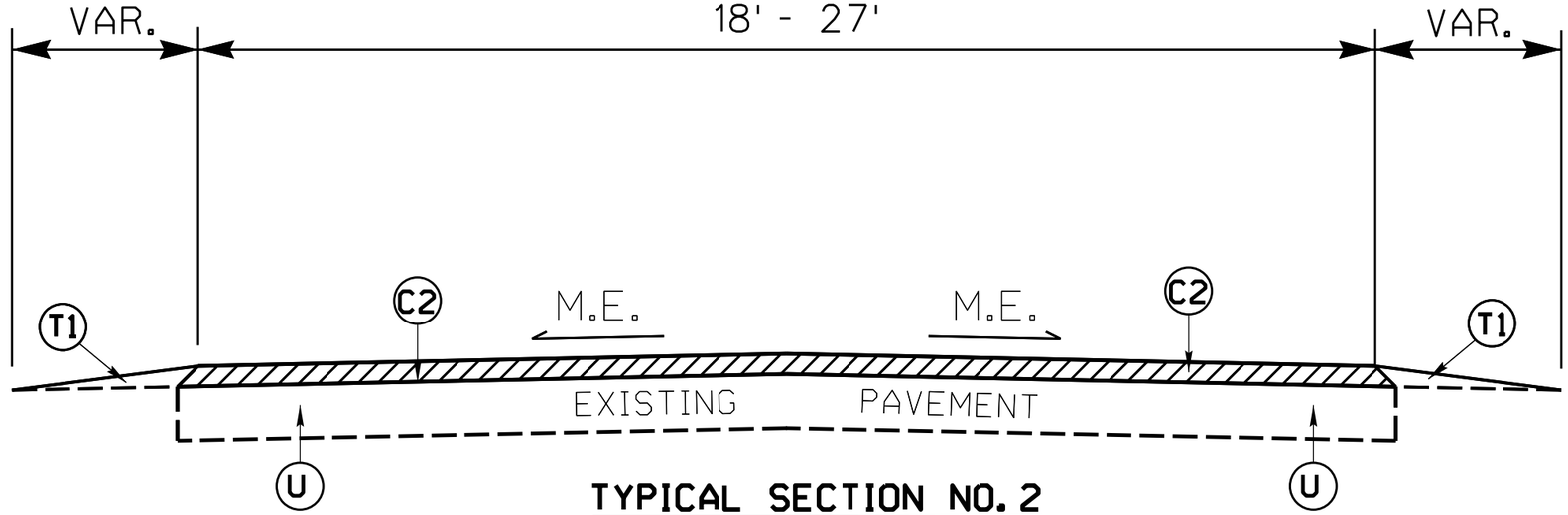
This exhibit does not meet NC 47-30 requirements and therefore is not intended for design, construction, or recording or transfer of title.

PROJECT REFERENCE NO.	SHEET NO.
2027CPT.03.12.20821	6



TYPICAL SECTION NO. 1

MAP NO. 1
SR 1946 (RODGERS MILL RD)
MP 0.00 - MP 4.33



TYPICAL SECTION NO. 2

MAP NO. 2
SR 1905 (W MCGOWAN RD)
MP 0.00 - MP 1.39

MAP NO. 3
SR 1284 (E PINEWOOD ST)
MP 0.61 - MP 1.15

MAP NO. 4
SR 1226 (INDIAN TOWN RD)
MP 0.00 - MP 2.54

MAP NO. 9
SR 1293 (WILLIE BROWN RD)
MP 0.00 - MP 0.20

PAVEMENT SCHEDULE

C1	**PROP. APPROX. 1.50" DEPTH ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ.YD.**
C2	PROP. APPROX. 1.25" DEPTH ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ.YD.
R1	EXISTING CURB & GUTTER
R2	EXISTING CONCRETE BRIDGE RAIL
R3	EXISTING GUARDRAIL
T1	EARTH MATERIAL (SHOULDER RECONSTRUCTION)
U	EXISTING PAVEMENT
V1	VARIABLE MILLING, 0" - 1.25" DEPTH
V2	1.25" MILLING DEPTH

NOTES:

MILL A SINGLE LANE AND PAVE BACK BY THE END OF EACH WORK DAY.

SHOULDER WORK ON MAP NO. 1 - 4 & 9 AS NEEDED, TO BE DETERMINED BY ENGINEER.

THE CONTRACTOR SHALL RETAIN EXISTING LANE WIDTHS.

REINSTALL PAVEMENT MARKINGS PER 2024 STANDARDS.

ALL MAPS: STATE FORCES WILL MARK SHORT OVERLAY LOCATIONS PRIOR TO RESURFACING.

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

8/17/99
REVISIONS
$$$$$$$SYSTIME$$$$$$
$$$$$$$

PROJECT REFERENCE NO.	SHEET NO.
2027CPT.03.12.20821	7

PAVEMENT SCHEDULE	
C2	PROP. APPROX. 1.25" DEPTH ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ.YD.
R1	EXISTING CURB & GUTTER
U	EXISTING PAVEMENT
V1	VARIABLE MILLING, 0" - 1.25" DEPTH

NOTES:

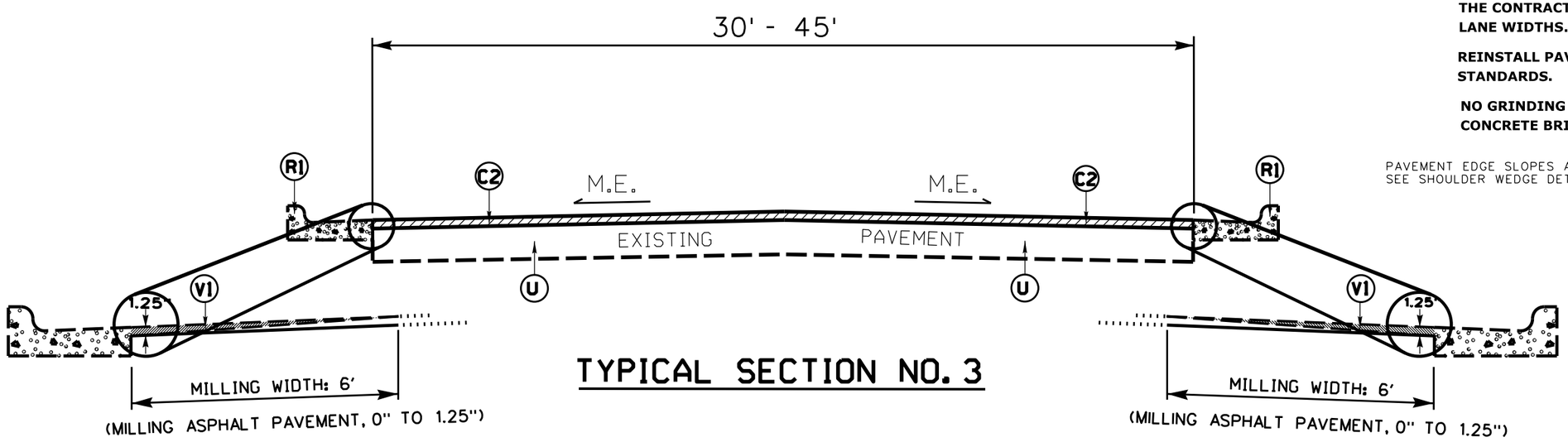
MILL A SINGLE LANE AND PAVE BACK BY THE END OF EACH WORK DAY.

THE CONTRACTOR SHALL RETAIN EXISTING LANE WIDTHS.

REINSTALL PAVEMENT MARKINGS PER 2024 STANDARDS.

NO GRINDING SHALL BE PERMITTED ON CONCRETE BRIDGE DECKS.

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



TYPICAL SECTION NO. 3

MAP NO. 5
SR 1281 (CHESNUTT/
FERREL STREET)
MP 0.00 - MP 0.86

MAP NO. 6
SR 1227 (W BUTLER AVE)
MP 1.02 - MP 1.40

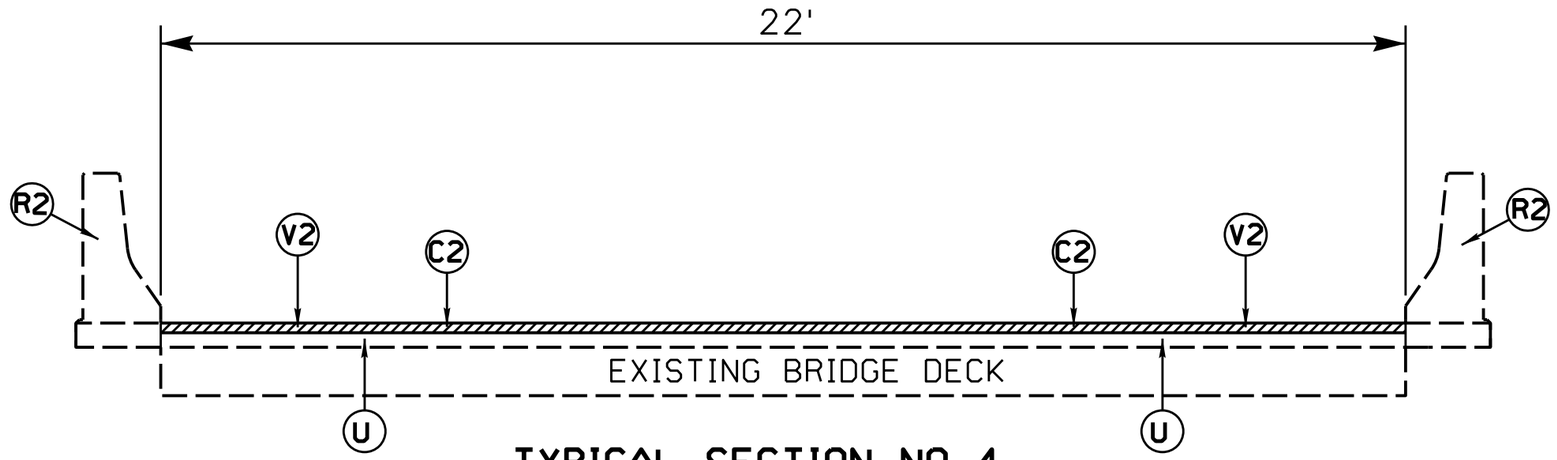
MAP NO. 7
SR 1851 (WILLIAMS STREET)
MP 0.00 - MP 0.08

MAP NO. 8
SR 1852 (W JOHNSON ST/
E JOHNSON ST)
MP 0.00 - MP 0.54

REVISIONS
8/17/99

$$$$$$$SYSTIME$$$$$$
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$$$$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
2027CPT.03.12.20821	8



TYPICAL SECTION NO. 4

MAP NO. 2
SR 1905 (W MCGOWAN RD)
BRIDGE NO. 252
MP 0.94 - MP 0.98

PAVEMENT SCHEDULE	
C2	PROP. APPROX. 1.25" DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ.YD.R SQ.YD.
R2	EXISTING CONCRETE BRIDGE RAIL
R3	EXISTING GUARDRAIL
U	EXISTING PAVEMENT
V1	VARIABLE MILLING, 0" - 1.25" DEPTH
V2	1.25" MILLING DEPTH

NOTES:

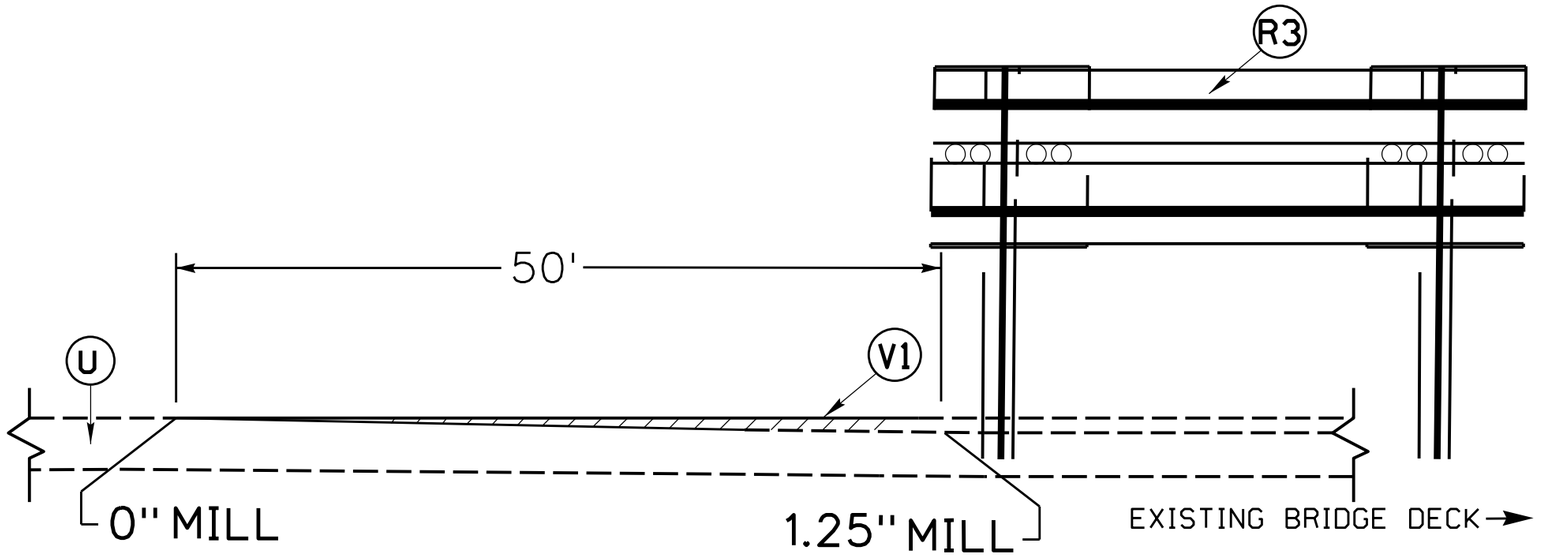
MILL A SINGLE LANE AND PAVE BACK BY THE END OF EACH WORK DAY.

THE CONTRACTOR SHALL RETAIN EXISTING LANE WIDTHS.

REINSTALL PAVEMENT MARKINGS PER 2024 STANDARDS.

NO GRINDING SHALL BE PERMITTED ON CONCRETE BRIDGE DECKS.

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

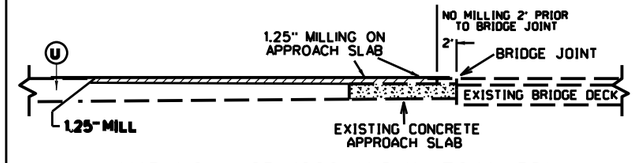


TYPICAL SECTION NO. 5

MAP NO. 2
SR 1905 (W MCGOWAN RD)
BRIDGE NO. 252

MAP NO. 4
SR 1226 (INDIAN TOWN RD)
BRIDGE NO. 057

INCIDENTAL MILLING DETAIL FOR BRIDGE APPROACHES



MAP NO. 4: SR 1226 (INDIAN TOWN RD)
BRIDGE # 057 MP 1.13 - MP 1.17

2024 ROADWAY ENGLISH STANDARD DRAWINGS — **EFF. 01-16-2024 REV.**

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:

STD. NO.	TITLE
DIVISION 8 - INCIDENTALS	
846.01	Concrete Curb, Gutter and Curb & Gutter
DIVISION 12 - PVMT MARKING, MARKERS AND DELINEATION	
1205.08	Pavement Markings - Symbols & Word Messages

8/17/99

REVISIONS

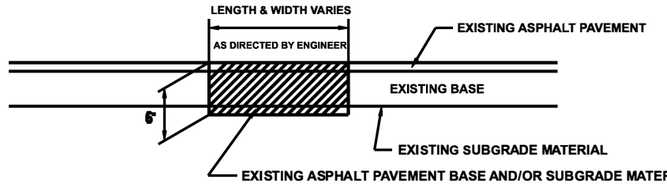
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$$$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
2027CPT.03.12.20821	9

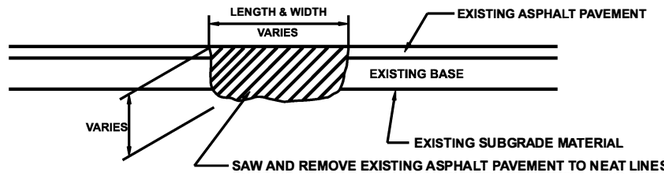
8/17/99

REVISIONS

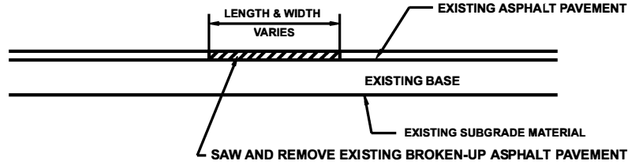
DETAILS OF REPAIRING EXISTING PAVEMENT PRIOR TO RESURFACING FOR FULL DEPTH AND MILLING



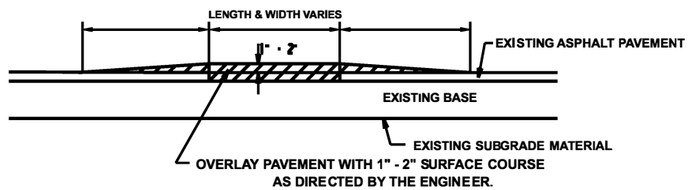
DETAIL NO. 1



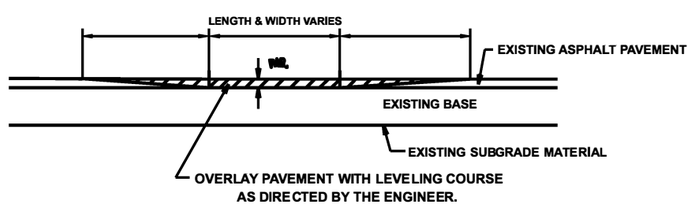
DETAIL NO. 2



DETAIL NO. 3



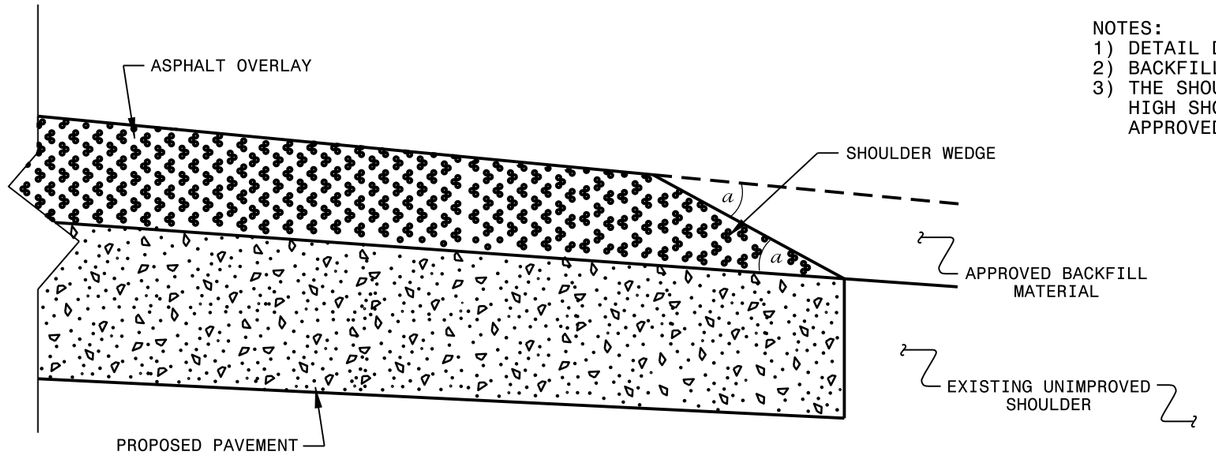
DETAIL NO. 4



DETAIL NO. 5

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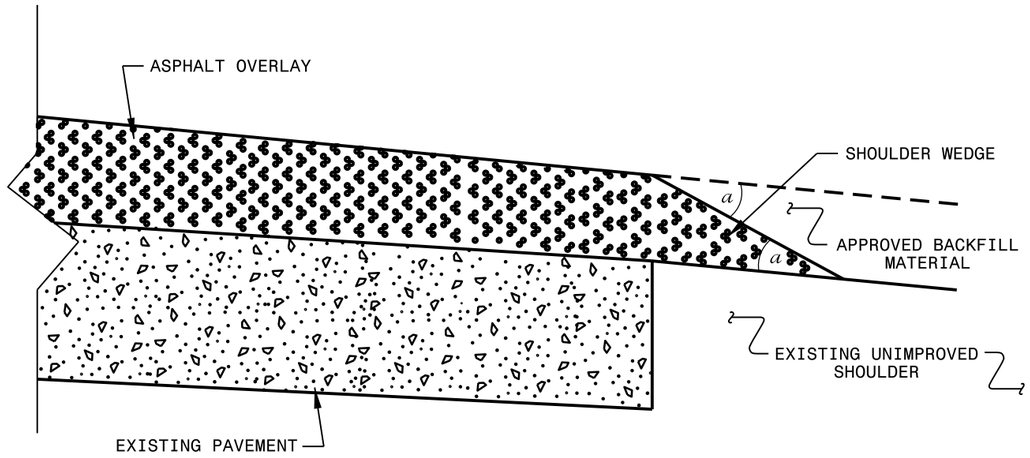
PROJECT REFERENCE NO.	SHEET NO.
2027CPT.03.12.20821.	10



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.

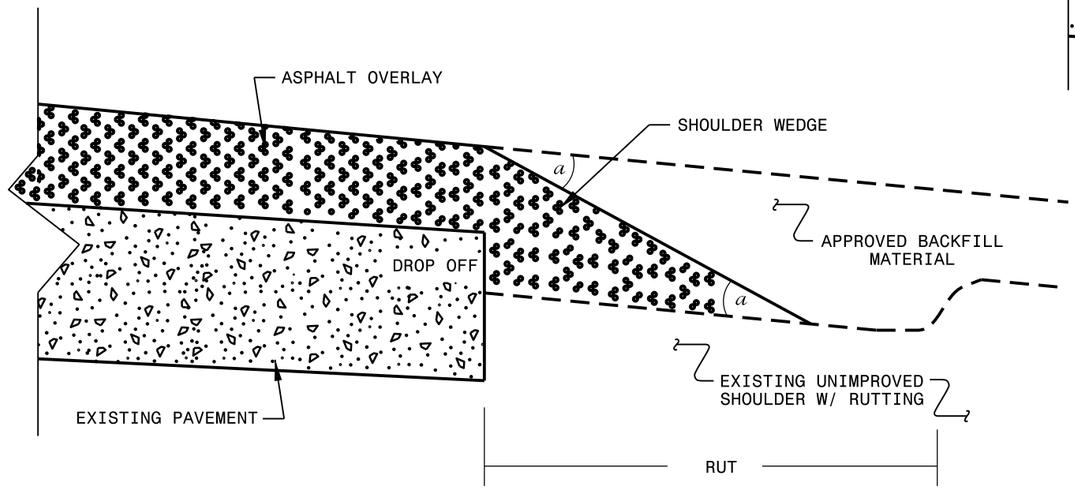
SHOULDER WEDGE DETAIL

(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)

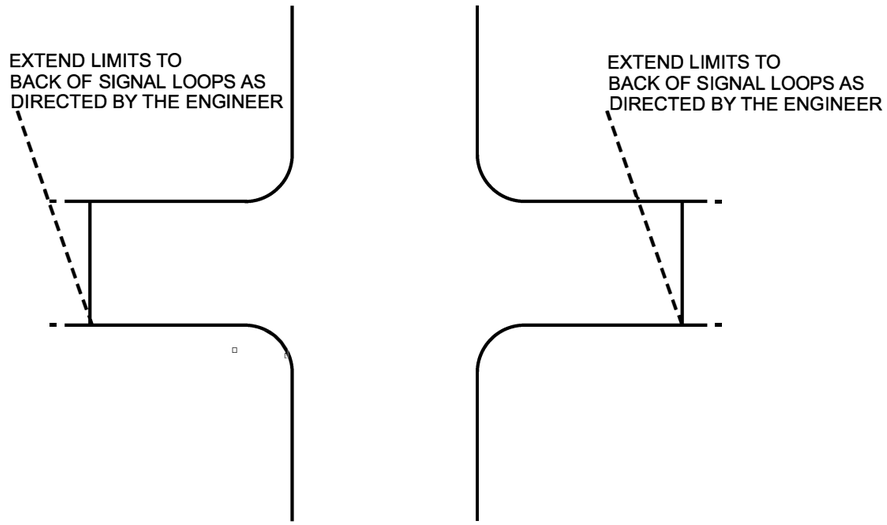
- SHOULDER WEDGE ANGLE = 30°

CONTRACT STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

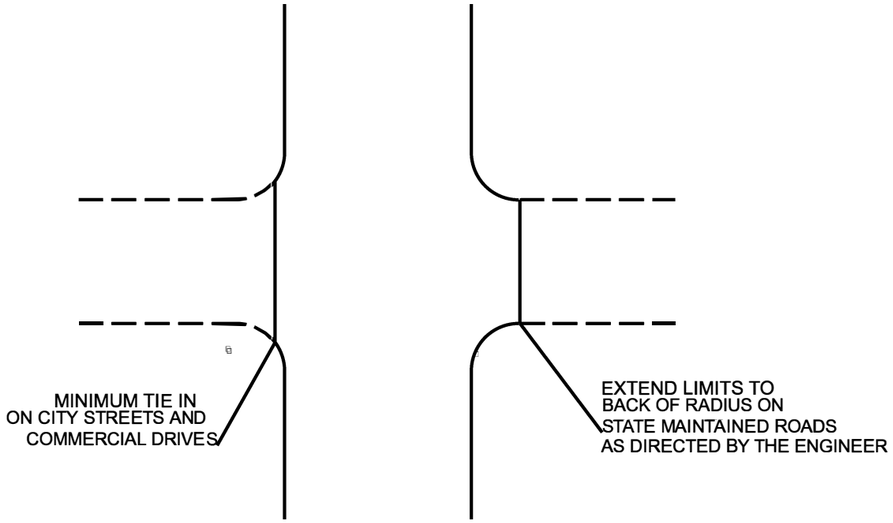
SHOULDER WEDGE DETAILS

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 13:52
S:\Contracts\Contracts\Resurfacing Projects\Division 3\Sampson August 2018\Revised Shoulder Wedge Detail.dgn
pporter at CSD 2525142



TYPICAL DETAIL OF PROJECT LIMITS AT SIGNALIZED Y LINES



TYPICAL DETAIL OF PROJECT LIMITS AT UNSIGNALIZED Y LINES

ADDITIONAL INTERSECTIONS (NON-TYPICAL)

Extend paving limits to back of radius
or loop on the following Intersections:

MAP#	STREET NAME	COMMENTS

PROJECT NO.	SHEET NO.
2027CPT.03.12.20821	12

SUMMARY OF QUANTITIES

												0106000000-E	1220000000-E	1245000000-E	1297000000-E	1308000000-E	1330000000-E	1519000000-E		1575000000-E	1705500000-E
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	BORROW EXCAVATION	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	1.25" MILLING	0" - 1.25" MILLING	INCIDENTAL MILLING	SURFACE COURSE S9.5B	SURFACE COURSE S9.5B SHORT OVERLAY	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT (MILL)
								MI	FT			CY	TON	SMI	SY	SY	SY	TON	TON	TON	TON
2027CPT.03.12.20821	Sampson	1	SR-1946 / ROGERS MILL RD	FROM DUPLIN COUNTY LINE TO SR 1945 (TRINITY CHURCH RD) [MP 0.00 - MP 4.33]	1	2	2WU	4.33	19	0.00	4.33	532	24	8.70			446	4,223	600	315	21
TOTAL FOR MAP NO. 1								**4.33**				**532**	**24**	**8.70**			**446**	**4,223**	**600**	**315**	**21**
2027CPT.03.12.20821	Sampson	2	SR-1905 /W MCGOWAN RD	FROM DUPLIN COUNTY LINE TO SR 1904 (PINE RIDGE RD) [MP 0.00 - MP 1.39]	2, 4, 5	2	2WU	1.39	21	0.00	1.39	145	8	2.84	587	122	202	1,305	200	99	20
TOTAL FOR MAP NO. 2								**1.39**				**145**	**8**	**2.84**	**587**	**122**	**202**	**1,305**	**200**	**99**	**20**
2027CPT.03.12.20821	Sampson	3	SR-1284 / E PINEWOOD ST	FROM SR 1241 (SOUTH EAST ST) TO SR 1216 (ANDREWS CHAPEL RD [MP 0.61 - MP 1.15]	2	2	2WU	0.54	25	0.61	1.15	63	38	1.08			303	672		45	20
TOTAL FOR MAP NO. 3								**0.54**				**63**	**38**	**1.08**			**303**	**672**		**45**	**20**
2027CPT.03.12.20821	Sampson	4	SR-1226 / INDIAN TOWN RD	FROM SR 1932 (REEDSFORD RD) TO SR 1214 (ELIZABETH ST) [MP 0.00 - MP 2.54]	2, 5	2	2WU	2.54	27	0.00	2.54	275	108	5.40	4,184	194	375	3,128		212	183
TOTAL FOR MAP NO. 4								**2.54**				**275**	**108**	**5.40**	**4,184**	**194**	**375**	**3,128**		**212**	**183**
2027CPT.03.12.20821	Sampson	5	SR-1281 / CHESTNUTT ST / FERRELL ST	FROM SR 1296 (FAYETTEVILLE ST) TO SR 1227 (W BUTLER AVE) [MP 0.00 - MP 0.86]	3	2		0.86	38	0.00	0.86					5,702	644	1,239		84	81
TOTAL FOR MAP NO. 5								**0.86**								**5,702**	**644**	**1,239**		**84**	**81**
2027CPT.03.12.20821	Sampson	6	SR-1227 / W BUTLER AVE	FROM NC HWY 24 TO SR 1231 (LISBON ST) [MP 1.02 - MP 1.40]	3	2	2WU	0.38	45	1.02	1.40					2,605	250	706		50	96
TOTAL FOR MAP NO. 6								**0.38**								**2,605**	**250**	**706**		**50**	**96**
2027CPT.03.12.20821	Sampson	7	SR-1851 / WILLIAMS ST	FROM SR 1852 (W JOHNSON ST) TO SR 1296 (FAYETTEVILLE ST) [MP 0.00 - MP 0.08]	3	2	2WU	0.08	30	0.00	0.08					563	166	83		7	26
TOTAL FOR MAP NO. 7								**0.08**								**563**	**166**	**83**		**7**	**26**
2027CPT.03.12.20821	Sampson	8	SR-1852 / W JOHNSON ST / E JOHNSON ST	FROM SR 1851 (WILLIAMS ST) TO SR 1838 (BEAMAN ST) [MP 0.00 - MP 0.54]	3	2	2WU	0.54	33	0.00	0.54					3,661	1,424	755		52	71
TOTAL FOR MAP NO. 8								**0.54**								**3,661**	**1,424**	**755**		**52**	**71**
2027CPT.03.12.20821	Sampson	9	SR-1293 / WILLIE BROWN RD	FROM NC HWY 411 TO EOM [MP 0.00 - MP 0.20]	2	2	2WU	0.20	18	0.00	0.20	19	12	0.38			108	160	149	21	24
TOTAL FOR MAP NO. 9								**0.20**				**19**	**12**	**0.38**			**108**	**160**	**149**	**21**	**24**
TOTAL FOR PROJ NO. 2027CPT.03.12.20821								**10.86**				**1,034**	**190**	**18.40**	**4,771**	**12,847**	**3,918**	**12,271**	**949**	**885**	**542**
																		13,220			
GRAND TOTAL								**10.860**				**1,034**	**190**	**18.40**	**4,771**	**12,847**	**3,918**	**12,271**	**949**	**885**	**542**
																		13,220			

PROJECT NO.	SHEET NO.
2027CPT.03.12.20821	13

SUMMARY OF QUANTITIES

													2830000000-N	2845000000-N	6000000000-E	6036000000-E	6042000000-E	6071010000-E	6084000000-E	6117000000-N	7444000000-E
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP		ADJUSTMENT OF MANHOLES	ADJUSTMENT OF METER OR VALVE BOX	TEMPORARY SILT FENCE	MATTING FOR EROSION CONTROL	1/4" HARDWARE CLOTH	WATTLE	SEED & MULCHING	RESPONSE FOR EROSION CONTROL	INDUCTIVE LOOP SAWCUT
								MI	FT				EA	EA	LF	SY	LF	LF	AC	EA	LF
2027CPT.03.12.20821	Sampson	1	SR-1946 / ROGERS MILL RD	FROM DUPLIN COUNTY LINE TO SR 1945 (TRINITY CHURCH RD) [MP 0.00 - MP 4.33]	1	2	2WU	4.33	19	0.00	4.33				433	30		70	4.25	1	
TOTAL FOR MAP NO. 1								**4.33**							**433**	**30**		**70**	**4.25**	**1**	
2027CPT.03.12.20821	Sampson	2	SR-1905 /W MCGOWAN RD	FROM DUPLIN COUNTY LINE TO SR 1904 (PINE RIDGE RD) [MP 0.00 - MP 1.39]	2, 4, 5	2	2WU	1.39	21	0.00	1.39				139	20		30	1.25	1	
TOTAL FOR MAP NO. 2								**1.39**							**139**	**20**		**30**	**1.25**	**1**	
2027CPT.03.12.20821	Sampson	3	SR-1284 / E PINEWOOD ST	FROM SR 1241 (SOUTH EAST ST) TO SR 1216 (ANDREWS CHAPEL RD [MP 0.61 - MP 1.15]	2	2	2WU	0.54	25	0.61	1.15		2	3	54	10		10	0.50	1	
TOTAL FOR MAP NO. 3								**0.54**					**2**	**3**	**54**	**10**		**10**	**0.50**	**1**	
2027CPT.03.12.20821	Sampson	4	SR-1226 / INDIAN TOWN RD	FROM SR 1932 (REEDSFORD RD) TO SR 1214 (ELIZABETH ST) [MP 0.00 - MP 2.54]	2, 5	2	2WU	2.54	27	0.00	2.54				254	20		40	2.50	1	
TOTAL FOR MAP NO. 4								**2.54**							**254**	**20**		**40**	**2.50**	**1**	
2027CPT.03.12.20821	Sampson	5	SR-1281 / CHESTNUTT ST / FERRELL ST	FROM SR 1296 (FAYETTEVILLE ST) TO SR 1227 (W BUTLER AVE) [MP 0.00 - MP 0.86]	3	2		0.86	38	0.00	0.86		26	14							
TOTAL FOR MAP NO. 5								**0.86**					**26**	**14**							
2027CPT.03.12.20821	Sampson	6	SR-1227 / W BUTLER AVE	FROM NC HWY 24 TO SR 1231 (LISBON ST) [MP 1.02 - MP 1.40]	3	2	2WU	0.38	45	1.02	1.40		13	6							
TOTAL FOR MAP NO. 6								**0.38**					**13**	**6**							
2027CPT.03.12.20821	Sampson	7	SR-1851 / WILLIAMS ST	FROM SR 1852 (W JOHNSON ST) TO SR 1296 (FAYETTEVILLE ST) [MP 0.00 - MP 0.08]	3	2	2WU	0.08	30	0.00	0.08		10	4							
TOTAL FOR MAP NO. 7								**0.08**					**10**	**4**							
2027CPT.03.12.20821	Sampson	8	SR-1852 / W JOHNSON ST / E JOHNSON ST	FROM SR 1851 (WILLIAMS ST) TO SR 1838 (BEAMAN ST) [MP 0.00 - MP 0.54]	3	2	2WU	0.54	33	0.00	0.54		17	15							800
TOTAL FOR MAP NO. 8								**0.54**					**17**	**15**							**800**
2027CPT.03.12.20821	Sampson	9	SR-1293 / WILLIE BROWN RD	FROM NC HWY 411 TO EOM [MP 0.00 - MP 0.20]	2	2	2WU	0.20	18	0.00	0.20				20	10	10	10	0.25	1	
TOTAL FOR MAP NO. 9								**0.20**							**20**	**10**	**10**	**10**	**0.25**	**1**	
TOTAL FOR PROJ NO. 2027CPT.03.12.20821								**10.86**					**68**	**42**	**900**	**90**	**10**	**160**	**8.75**	**5**	**800**
GRAND TOTAL								**10.860**					**68**	**42**	**900**	**90**	**10**	**160**	**8.75**	**5**	**800**

PROJECT NO.	SHEET NO.
2027CPT.03.12.20821	14

THERMOPLASTIC AND PAINT QUANTITIES

													4413000000-E	4457000000-N	4685000000-E		4688000000-E		4709000000-E	4720000000-E	4725000000-E
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP		WORK ZONE ADVANCE/ GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	4" X 90 M YELLOW THERMO	4" X 90 M WHITE THERMO	6" X90 M YELLOW THERMO	6" X 90 M WHITE THERMO	THERMOPLASTIC PAVEMENT MARKING LINES (24" X 90 MILS)	THERMO MSG SCHOOL (90 MIL)	THERMO STR ARROW (90 MIL)
								MI	FT				SF	LS	LF	LF	LF	LF	LF	EA	EA
2027CPT.03.12.20821	Sampson	1	SR-1946 / ROGERS MILL RD	FROM DUPLIN COUNTY LINE TO SR 1945 (TRINITY CHURCH RD) [MP 0.00 - MP 4.33]	1	2	2WU	4.33	19	0.00	4.33		496	0.40	28,262	45,724					
TOTAL FOR MAP NO. 1								**4.33**					**496**	**0.40**	**28,262**	**45,724**					
2027CPT.03.12.20821	Sampson	2	SR-1905 / W MCGOWAN RD	FROM DUPLIN COUNTY LINE TO SR 1904 (PINE RIDGE RD) [MP 0.00 - MP 1.39]	2, 4, 5	2	2WU	1.39	21	0.00	1.39			0.13	13,203	14,995					
TOTAL FOR MAP NO. 2								**1.39**						**0.13**	**13,203**	**14,995**					
2027CPT.03.12.20821	Sampson	3	SR-1284 / E PINEWOOD ST	FROM SR 1241 (SOUTH EAST ST) TO SR 1216 (ANDREWS CHAPEL RD [MP 0.61 - MP 1.15]	2	2	2WU	0.54	25	0.61	1.15			0.05	6,442	6,442			60		
TOTAL FOR MAP NO. 3								**0.54**						**0.05**	**6,442**	**6,442**			**60**		
2027CPT.03.12.20821	Sampson	4	SR-1226 / INDIAN TOWN RD	FROM SR 1932 (REEDSFORD RD) TO SR 1214 (ELIZABETH ST) [MP 0.00 - MP 2.54]	2, 5	2	2WU	2.54	27	0.00	2.54		288	0.23			23,334	26,693	56	12	4
TOTAL FOR MAP NO. 4								**2.54**					**288**	**0.23**			**23,334**	**26,693**	**56**	**12**	**4**
2027CPT.03.12.20821	Sampson	5	SR-1281 / CHESTNUTT ST / FERRELL ST	FROM SR 1296 (FAYETTEVILLE ST) TO SR 1227 (W BUTLER AVE) [MP 0.00 - MP 0.86]	3	2		0.86	38	0.00	0.86			0.08	8,110				22		
TOTAL FOR MAP NO. 5								**0.86**						**0.08**	**8,110**				**22**		
2027CPT.03.12.20821	Sampson	6	SR-1227 / W BUTLER AVE	FROM NC HWY 24 TO SR 1231 (LISBON ST) [MP 1.02 - MP 1.40]	3	2	2WU	0.38	45	1.02	1.4			0.03	3,708				135	18	
TOTAL FOR MAP NO. 6								**0.38**						**0.03**	**3,708**				**135**	**18**	
2027CPT.03.12.20821	Sampson	7	SR-1851 / WILLIAMS ST	FROM SR 1852 (W JOHNSON ST) TO SR 1296 (FAYETTEVILLE ST) [MP 0.00 - MP 0.08]	3	2	2WU	0.08	30	0.00	0.08			0.01	1,327	160			17		
TOTAL FOR MAP NO. 7								**0.08**						**0.01**	**1,327**	**160**			**17**		
2027CPT.03.12.20821	Sampson	8	SR-1852 / W JOHNSON ST / E JOHNSON ST	FROM SR 1851 (WILLIAMS ST) TO SR 1838 (BEAMAN ST) [MP 0.00 - MP 0.54]	3	2	2WU	0.54	33	0.00	0.54			0.05	5,170				15		
TOTAL FOR MAP NO. 8								**0.54**						**0.05**	**5,170**				**15**		
2027CPT.03.12.20821	Sampson	9	SR-1293 / WILLIE BROWN RD	FROM NC HWY 411 TO EOM [MP 0.00 - MP 0.20]	2	2	2WU	0.20	18	0.00	0.20		640	0.02							
TOTAL FOR MAP NO. 9								**0.20**					**640**	**0.02**							
TOTAL FOR PROJ NO. 2027CPT.03.12.20821								**10.86**					**1,424**	**1**	**66,222**	**67,321**	**23,334**	**26,693**	**305**	**30**	**4**
															133,543		**50,027**				
GRAND TOTAL								**10.86**					**1,424**	**1**	**66,222**	**67,321**	**23,334**	**26,693**	**305**	**30**	**4**
															133,543		**50,027**				

PROJECT NO.	SHEET NO.
2027CPT.03.12.20821	15

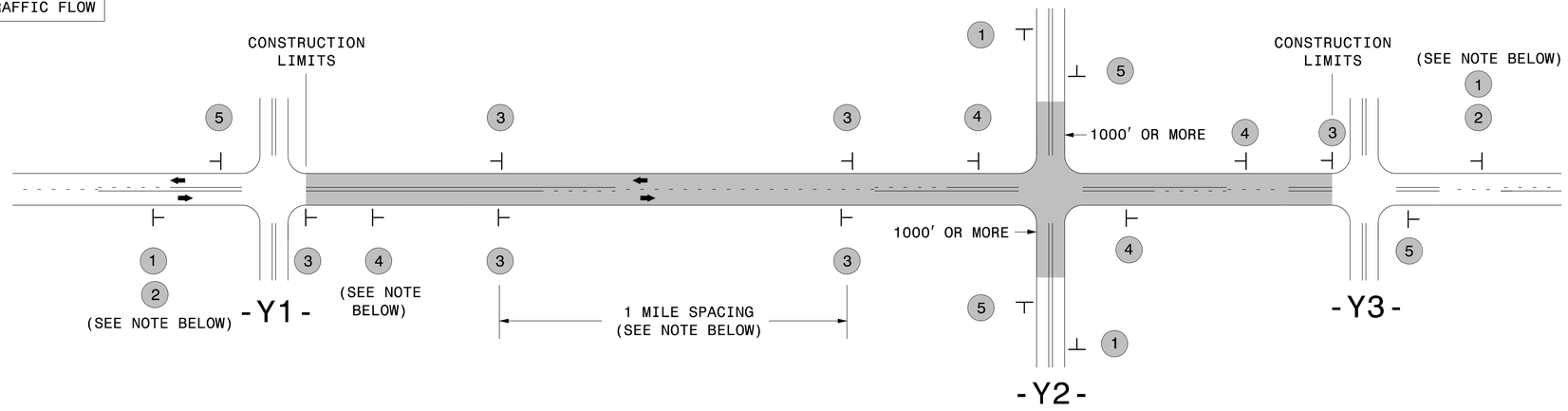
THERMOPLASTIC AND PAINT QUANTITIES

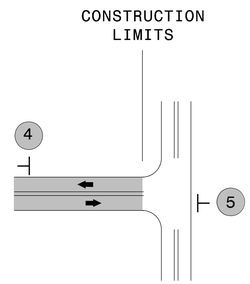
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PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	THERMO RT ARROW (90 MIL)	THERMO LT ARROW (90 MIL)	THERMO STR & RT ARROW (90 MIL)	REMOVAL OF PAVEMENT MARKING LINES (4")	INTEGRATED MULTIPOLYMER PAVEMENT MARKING LINES (4", 90 MIL)	POLYCARBONATE H-SHAPED MARKER (Y/Y)	POLYCARBONATE H-SHAPED MARKER (C/R)	YELLOW & YELLOW MARKERS
								MI	FT			EA	EA	EA	LF	LF	EA	EA	EA
2027CPT.03.12.20821	Sampson	1	SR-1946 / ROGERS MILL RD	FROM DUPLIN COUNTY LINE TO SR 1945 (TRINITY CHURCH RD) [MP 0.00 - MP 4.33]	1	2	2WU	4.33	19	0.00	4.33								287
TOTAL FOR MAP NO. 1								**4.33**											**287**
2027CPT.03.12.20821	Sampson	2	SR-1905 / W MCGOWAN RD	FROM DUPLIN COUNTY LINE TO SR 1904 (PINE RIDGE RD) [MP 0.00 - MP 1.39]	2, 4, 5	2	2WU	1.39	21	0.00	1.39								94
TOTAL FOR MAP NO. 2								**1.39**											**94**
2027CPT.03.12.20821	Sampson	3	SR-1284 / E PINEWOOD ST	FROM SR 1241 (SOUTH EAST ST) TO SR 1216 (ANDREWS CHAPEL RD [MP 0.61 - MP 1.15]	2	2	2WU	0.54	25	0.61	1.15								40
TOTAL FOR MAP NO. 3								**0.54**											**40**
2027CPT.03.12.20821	Sampson	4	SR-1226 / INDIAN TOWN RD	FROM SR 1932 (REEDSFORD RD) TO SR 1214 (ELIZABETH ST) [MP 0.00 - MP 2.54]	2, 5	2	2WU	2.54	27	0.00	2.54	4	4		888	888	178	31	
TOTAL FOR MAP NO. 4								**2.54**				**4**	**4**		**888**	**888**	**178**	**31**	
2027CPT.03.12.20821	Sampson	5	SR-1281 / CHESTNUTT ST / FERRELL ST	FROM SR 1296 (FAYETTEVILLE ST) TO SR 1227 (W BUTLER AVE) [MP 0.00 - MP 0.86]	3	2		0.86	38	0.00	0.86	1	1				53		
TOTAL FOR MAP NO. 5								**0.86**				**1**	**1**				**53**		
2027CPT.03.12.20821	Sampson	6	SR-1227 / W BUTLER AVE	FROM NC HWY 24 TO SR 1231 (LISBON ST) [MP 1.02 - MP 1.40]	3	2	2WU	0.38	45	1.02	1.4		1				24		
TOTAL FOR MAP NO. 6								**0.38**					**1**				**24**		
2027CPT.03.12.20821	Sampson	7	SR-1851 / WILLIAMS ST	FROM SR 1852 (W JOHNSON ST) TO SR 1296 (FAYETTEVILLE ST) [MP 0.00 - MP 0.08]	3	2	2WU	0.08	30	0.00	0.08	3	3	2			31	8	
TOTAL FOR MAP NO. 7								**0.08**				**3**	**3**	**2**			**31**	**8**	
2027CPT.03.12.20821	Sampson	8	SR-1852 / W JOHNSON ST / E JOHNSON ST	FROM SR 1851 (WILLIAMS ST) TO SR 1838 (BEAMAN ST) [MP 0.00 - MP 0.54]	3	2	2WU	0.54	33	0.00	0.54	3	3	3			34		
TOTAL FOR MAP NO. 8								**0.54**				**3**	**3**	**3**			**34**		
2027CPT.03.12.20821	Sampson	9	SR-1293 / WILLIE BROWN RD	FROM NC HWY 411 TO EOM [MP 0.00 - MP 0.20]	2	2	2WU	0.20	18	0.00	0.20								
TOTAL FOR MAP NO. 9								**0.20**											
TOTAL FOR PROJ NO. 2027CPT.03.12.20821								**10.86**				**11**	**12**	**5**	**888**	**888**	**320**	**39**	**421**
												32					**359**		
GRAND TOTAL								**10.86**				**11**	**12**	**5**	**888**	**888**	**320**	**39**	**421**
												32					**359**		

PROJ. REFERENCE NO.	SHEET NO.
2027CPT.03.12.20821	TCP-1

SIGNING FOR RESURFACING PROJECTS

LEGEND
- ⊢ STATIONARY SIGN
- ⬅ DIRECTION OF TRAFFIC FLOW





TEE INTERSECTION

MAINLINE (-L-) SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION

1 — ROAD WORK AHEAD, W20-1, 48″ X 48″

2 — NEXT XX MILES, W7-3aP, 24″ X 18″

PLACE 1000′ PRIOR TO BEGINNING OF CONSTRUCTION LIMITS.
ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000′ ALONG -Y- LINE.

#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 — LOWSOFT SHOULDER, SP 13107, 48″ X 48″

- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER.
- AT TEE INTERSECTIONS INSTALL INITIALLY ½ MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.

4 — ROAD UNDER CONST, 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 — END ROAD WORK, 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.

-Y- LINE SIGNING

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.

ROAD WORK AHEAD, W20-1, 48″ X 48″
PLACED 500′ IN ADVANCE OF FLAGGER.

W20-7 A, 48″ X 48″
PLACED 250′ IN ADVANCE OF FLAGGER.

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

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

5/15/2017
SATMU\WZTC\Resurfacing\2L2W & AST Resurfacing Details\Resurfacing_AdvWarn_2Ln.dgn
User:kedavis

PROJECT REFERENCE NO.	SHEET NO.
2027CPT.03.12.20821	EC-1

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.

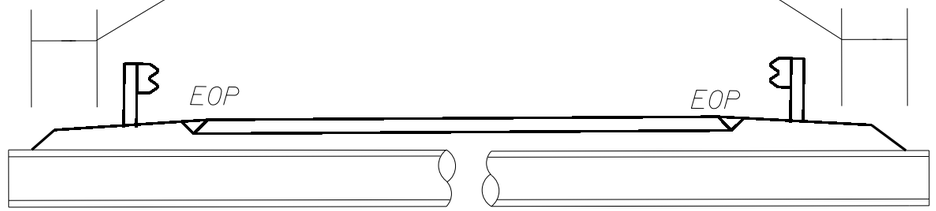
PROJECT REFERENCE NO.	SHEET NO.
2027CPT.03.12.20821	EC-2

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

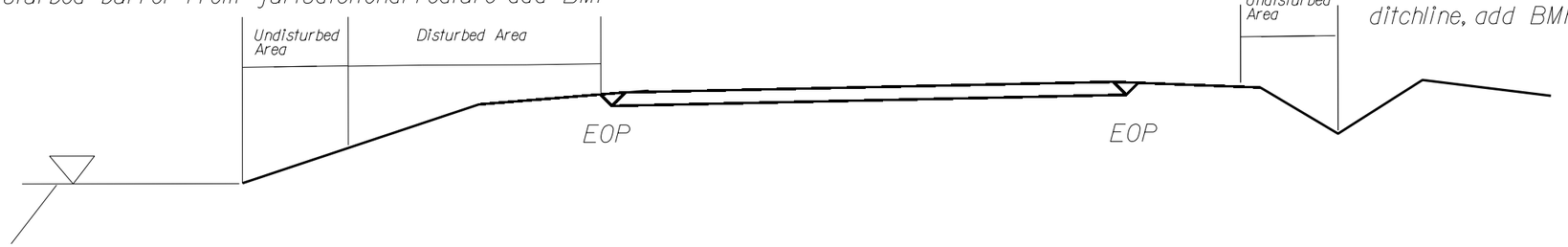
< 5' – 10' Undisturbed buffer add BMP



Pipe/Culvert

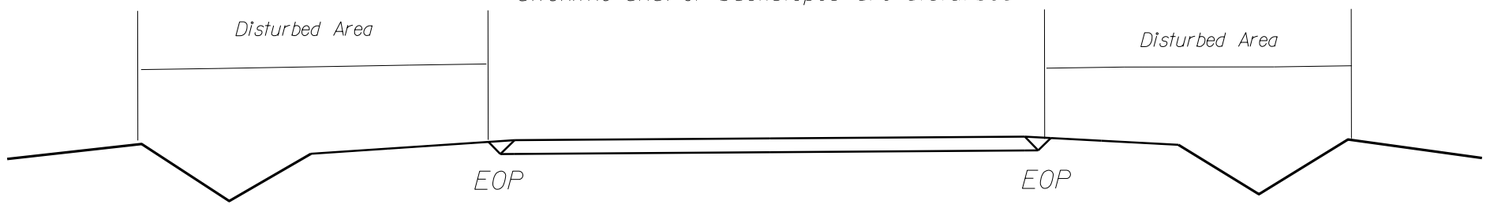
< 5' – 10' Undisturbed buffer from jurisdictional feature add BMP

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

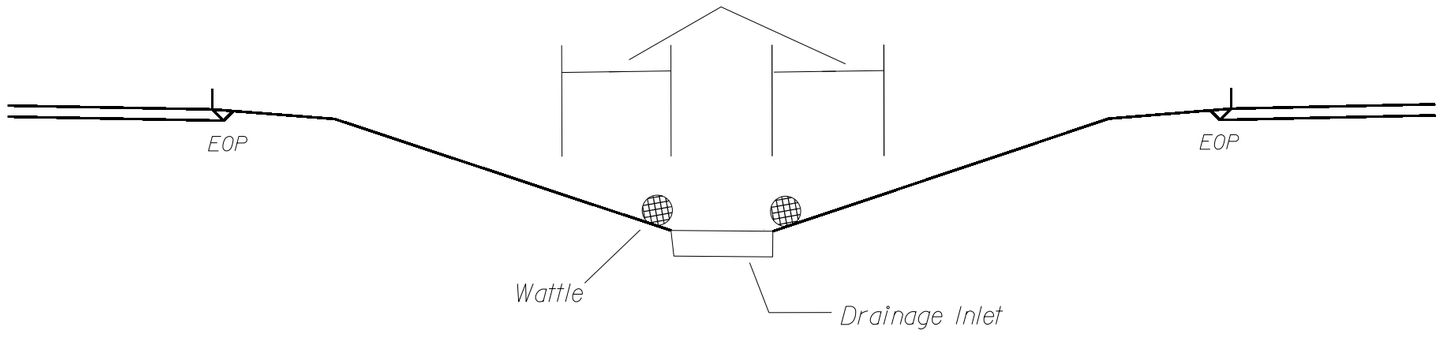


Jurisdictional Feature

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



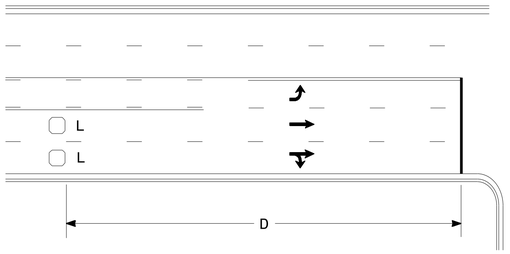
< 5' – 10' Undisturbed buffer from inlet, add wattle



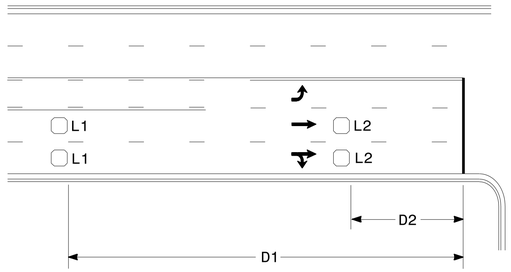
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
2027CPT.03.12.20821	SIG-1

High Speed Detection
(≥35 mph)



OR



Speed Limit mph	D ft
35	200
40	250
45	300
50	355
55	420
60	475
65	550

L = 6ft X 6ft
Wired separately

Volume Density Operation

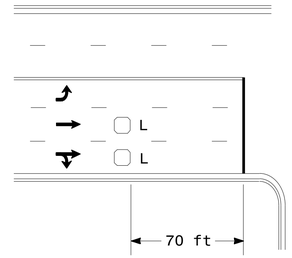
Speed Limit mph	D1 ft	D2 ft
40	250	80
45	300	90
50	355	100
55	420	110
60	475	120
65	550	130

L1 = 6ft X 6ft
Wired in series

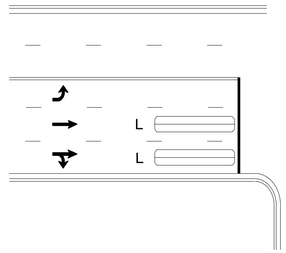
L2 = 6ft X 6ft
Wired in series

"Stretch" Operation

Low Speed Detection
(≤35 mph)



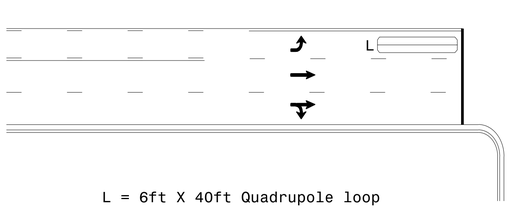
OR



L = 6ft X 6ft
Wired in series

L = 6ft X 40ft
Quadrupole loop, wired separately

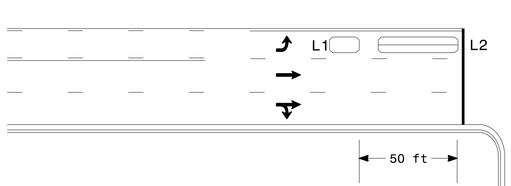
Left Turn Lane Detection



L = 6ft X 40ft Quadrupole loop

Presence Loop Detection

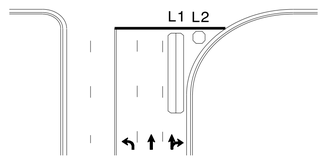
OR



L1 = 6ft X 15ft Queue detector
L2 = 6ft X 40ft Quadrupole loop

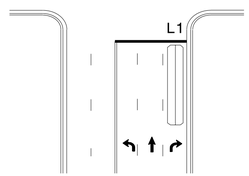
Queue Loop Detection

Right Turn Lane Detection

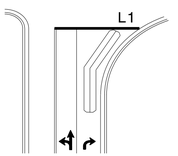


Shared Lane/
Wide Radius Turn

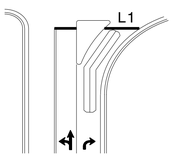
L1 = 6ft X 40ft Quadrupole loop
L2 = 6ft X 6ft [Minimum] Presence loop
Wired separately



Standard Turn

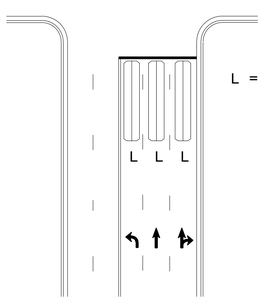


Wide Radius Turn



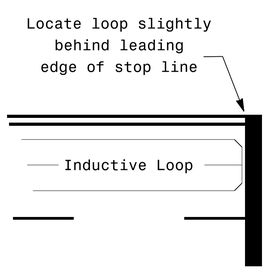
Channelized Turn

Side Street Detection



L = 6ft X 40ft
Quadrupole loop
Wired to separate
detectors/channels

Presence Loop Placement at Stop Lines



Note:
Loop may be located in advance of stop line under any of the following conditions:
1) stop line is greater than 15′ from edge of intersecting roadway
2) loop detects a permissive or protected/permissive left turn
3) for an exclusive right turn lane

Recommended Number of Turns

Single 6′ X 6′ loop
(when wired separately):

Length of Lead-in ft	Number of Turns
< 250	3
250-375	4
375-525	5
> 525	6

Quadrupole loops: Use 2-4-2 turns

6′ X 15′ Loops:
Lead-in < 150′, use 2 turns
Lead-in > 150′, use 3 turns

Prepared In the Offices of:
Transportation Mobility and Safety Division
Signal Design Section
750 N.Greenfield Pkwy,Garner,NC 27529

Typical Signal Loop Locations

PLAN DATE: September 2025 | REVIEWED BY:
PREPARED BY: J.A. Lohr | REVIEWED BY:

SCALE
N/A

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA
PROFESSIONAL
SEAL 026486
ENGINEER
ROBERT J. ZIEMBA
DocuSigned by: 11/25/2025
DATE

SIG. INVENTORY NO.

17-NOV-2025 07:35
S:\TSG\Traffic Signals\Signal Design Section\Eastern Region\Loop Typical\Loop_Typical_2025.dgn
jalohr