05/08/99

CONTRACT: C204932 WBS NO.: 2024CPT.01.06.10271, ETC.

$$$$$$$$SYSTIME$$$$$
$$$$$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$
$$$$$USERNAME$$$$

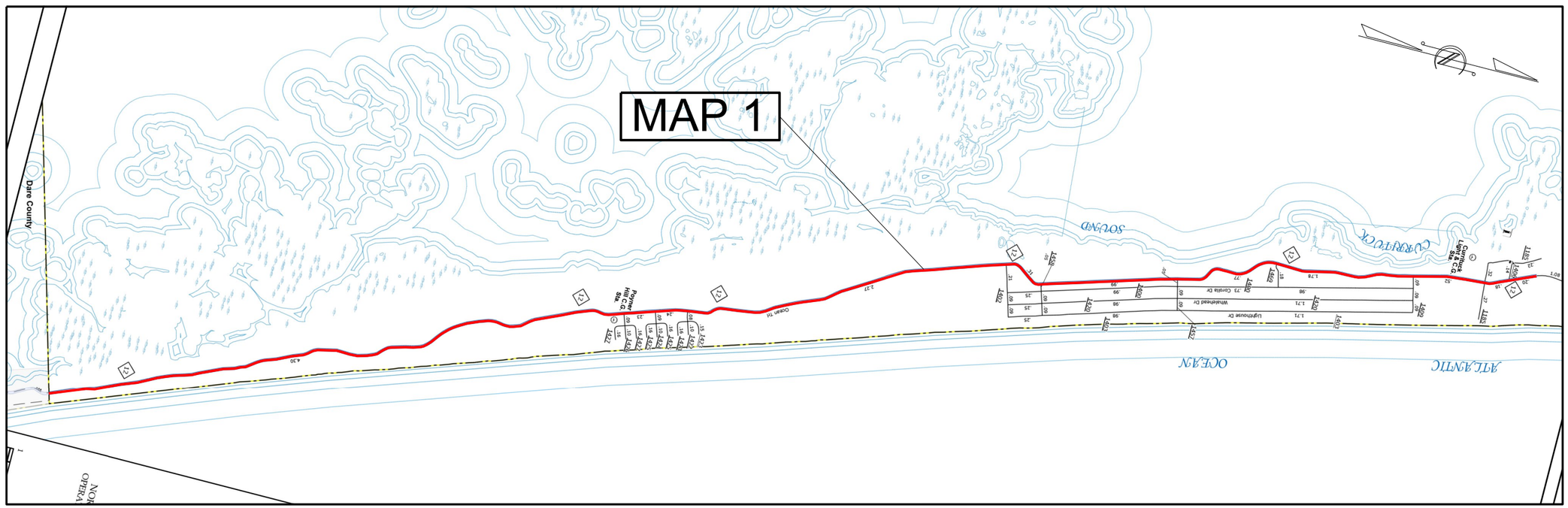
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.
N.C.	2024CPT.01.06.10271, ETC.	1
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
2024CPT,01,06,10271		PE, CONST.

CURRITUCK COUNTY

LOCATION: ***MAP 1 - NC 12 FROM DARE CO. TO SR 1437 N. BEACH ACCESS RD***

TYPE OF WORK: ***MILLING, RESURFACING, SHOULDER RECONSTRUCTION, & LONG-LIFE PAVEMENT MARKINGS***



REV 01/11/24
D.H. STALLINGS

GRAPHIC SCALES		MAP LENGTH	Prepared in the Office of: DIVISION 1 DIVISION OF HIGHWAYS 113 AIRPORT DR., EDENTON NC, 27932		
NTS		MAP 1 = 11.11 MILES	2024 STANDARD SPECIFICATIONS	B. N. BRASWELL, PE DIVISION PROJECT DEVELOPMENT ENGINEER CHRIS SLACHTA DIVISION CONTRACT ENGINEER	D. H. STALLINGS DIVISION DESIGN ENGINEER

STATE OF NORTH CAROLINA • DEPARTMENT OF TRANSPORTATION •

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.
N.C.	2024CPT.01.06.10271, ETC.	2

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
2024CPT.01.06.10271		PE, CONST
2024CPT.01.06.20271		PE, CONST

CONTRACT: C204932

WBS NO.: 2024CPT.01.06.10271, ETC.

09/08/99

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CURRITUCK COUNTY

LOCATION: **MAP 2 - NC 34 FROM RAILROAD CROSSING TO PAVEMENT JOINT NEAR SR 1210**
MAP 4 - SR 1147 FROM NC 34 TO PAVEMENT JOINT NEAR SR 1205
MAP 5 - SR 1147 FROM PAVEMENT JOINT NEAR SR 1205 TO US 158
MAP 6 - SR 1200 FROM SR 1147 TO US 158
MAP 7 - SR 1205 FROM SR 1147 TO NC 34

TYPE OF WORK: **MILLING, RESURFACING, SHOULDER RECONSTRUCTION, & LONG-LIFE PAVEMENT MARKINGS**

REV 01/11/24
D.H. STALLINGS

GRAPHIC SCALES

NTS

MAP LENGTH

MAP 2 = 2.25 MILES
MAP 4 = 0.12 MILES
MAP 5 = 1.87 MILES
MAP 6 = 0.96 MILES
MAP 7 = 0.13 MILES

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DIVISION 1
DIVISION OF HIGHWAYS
113 AIRPORT DR., EDENTON NC, 27932

2024 STANDARD SPECIFICATIONS

B. N. BRASWELL, PE
DIVISION PROJECT DEVELOPMENT ENGINEER

CHRIS SLACHTA
DIVISION CONTRACT ENGINEER

D. H. STALLINGS
DIVISION DESIGN ENGINEER

05/08/99

CONTRACT: C204932 WBS NO.: 2024CPT.01.06.10271, ETC.

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\$\$\$\$\$USERNAME\$\$\$\$

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

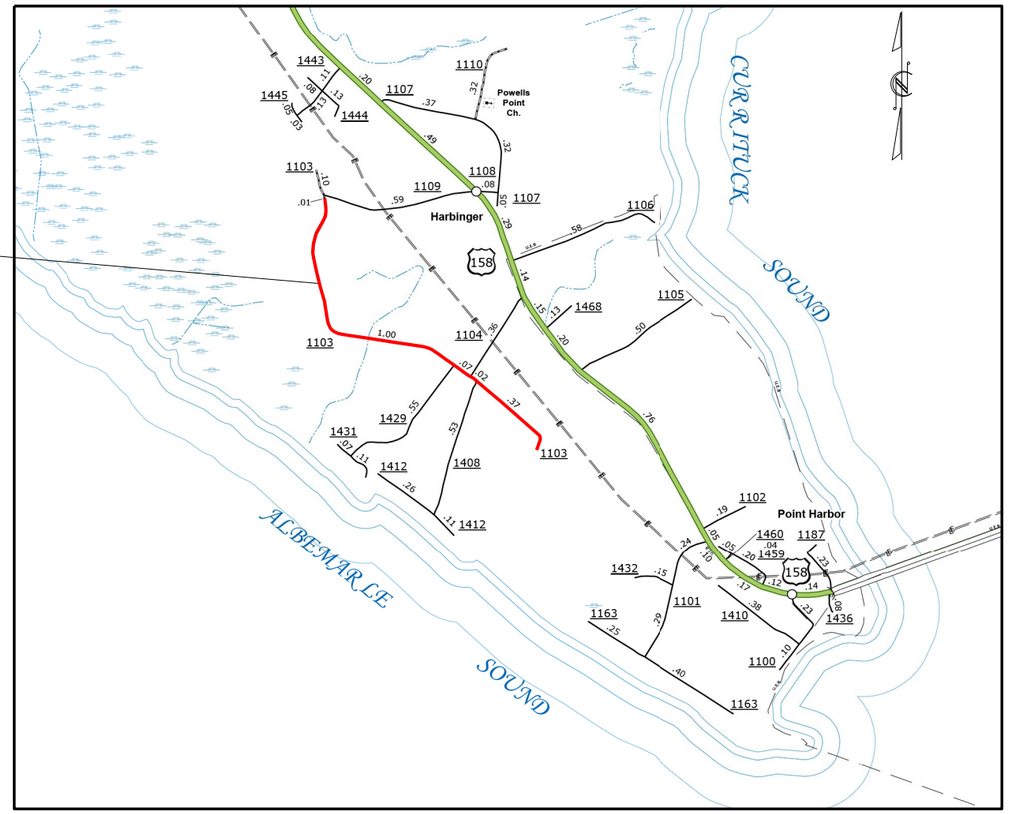
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.
N.C.	2024CPT.01.06.10271, ETC.	3
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
2024CPT.01.06.20271		PE, CONST

CURRITUCK COUNTY

LOCATION: MAP 3 - SR 1103 FROM SR 1109 TO DEAD END

TYPE OF WORK: RESURFACING, SHOULDER RECONSTRUCTION, & PAVEMENT MARKINGS

MAP 3



REV 01/11/24
D.H. STALLINGS

GRAPHIC SCALES		MAP LENGTH	Prepared in the Office of: DIVISION 1 DIVISION OF HIGHWAYS 113 AIRPORT DR., EDENTON NC, 27932		
NTS		MAP 3 = 1.48 MILES	2024 STANDARD SPECIFICATIONS	B. N. BRASWELL, PE DIVISION PROJECT DEVELOPMENT ENGINEER CHRIS SLACHTA DIVISION CONTRACT ENGINEER	D. H. STALLINGS DIVISION DESIGN ENGINEER

05/08/99

CONTRACT: C204932 WBS NO.: 2024CPT.01.06.10271, ETC.

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

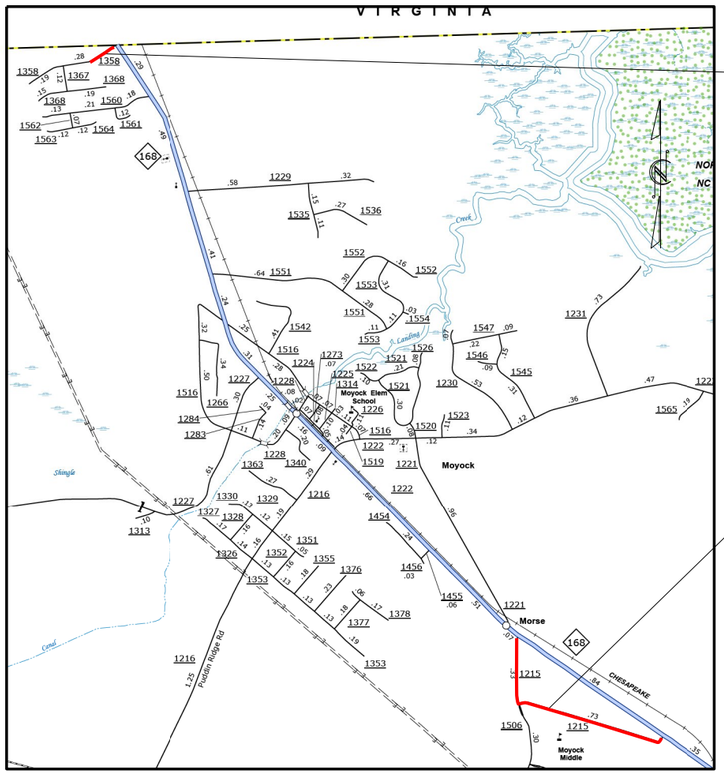
CURRITUCK COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.
N.C.	2024CPT.01.06.10271, ETC.	4

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
2024CPT.01.06.20271		PE, CONST
2024CPT.01.06.20272		PE, CONST

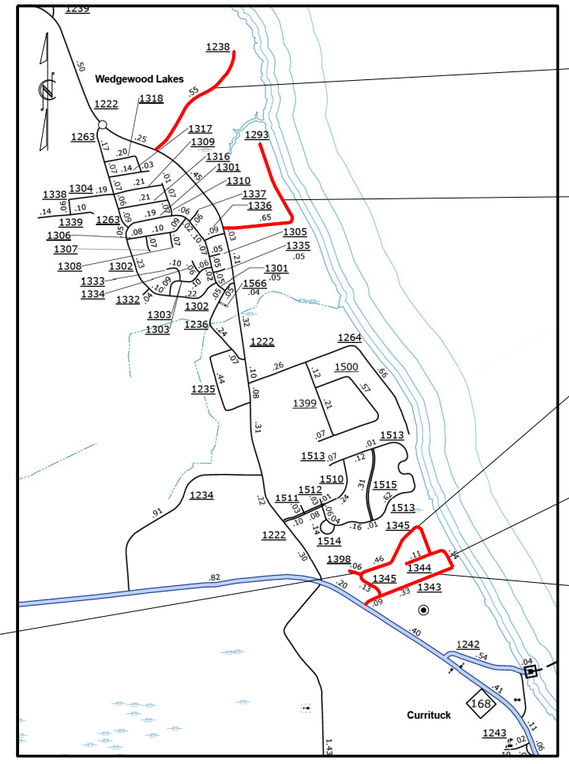
LOCATION: ***MAP 8 - SR 1215 FROM NC 168 TO NC 168***
MAP 9 - SR 1293 FROM SR 1222 TO CUL-DE-SAC
MAP 10 - SR 1358 FROM NC 168 TO BEGIN 3 LANE
MAP 12 - SR 1238 FROM SR 1222 TO DEAD END
MAP 13 - SR 1343 FROM NC 168 TO SR 1344
MAP 14 - SR 1344 FROM SR 1343 TO CUL-DE-SAC
MAP 15 - SR 1345 FROM SR 1343 TO SR 1344
MAP 16 - SR 1398 FROM SR 1345 TO CUL-DE-SAC

TYPE OF WORK: ***RESURFACING, THIN LIFT RESURFACING, SHOULDER RECONSTRUCTION, & LONG-LIFE PAVEMENT MARKINGS***



MAP 10

MAP 8



MAP 12

MAP 9

MAP 15

MAP 14

MAP 13

MAP 16

REV 01/11/24
D.H. STALLINGS

GRAPHIC SCALES

NTS

MAP LENGTH
MAP 8 = 1.05 MILES
MAP 9 = 0.65 MILES
MAP 10 = 0.11 MILES
MAP 12 = 0.55 MILES
MAP 13 = 0.42 MILES
MAP 14 = 0.25 MILES
MAP 15 = 0.59 MILES
MAP 16 = 0.06 MILES

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DIVISION OF HIGHWAYS
113 AIRPORT DR., EDENTON NC, 27932

2024 STANDARD SPECIFICATIONS

B. N. BRASWELL, PE
DIVISION PROJECT DEVELOPMENT ENGINEER

CHRIS SLACHTA
DIVISION CONTRACT ENGINEER

D. H. STALLINGS
DIVISION DESIGN ENGINEER

STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION ·

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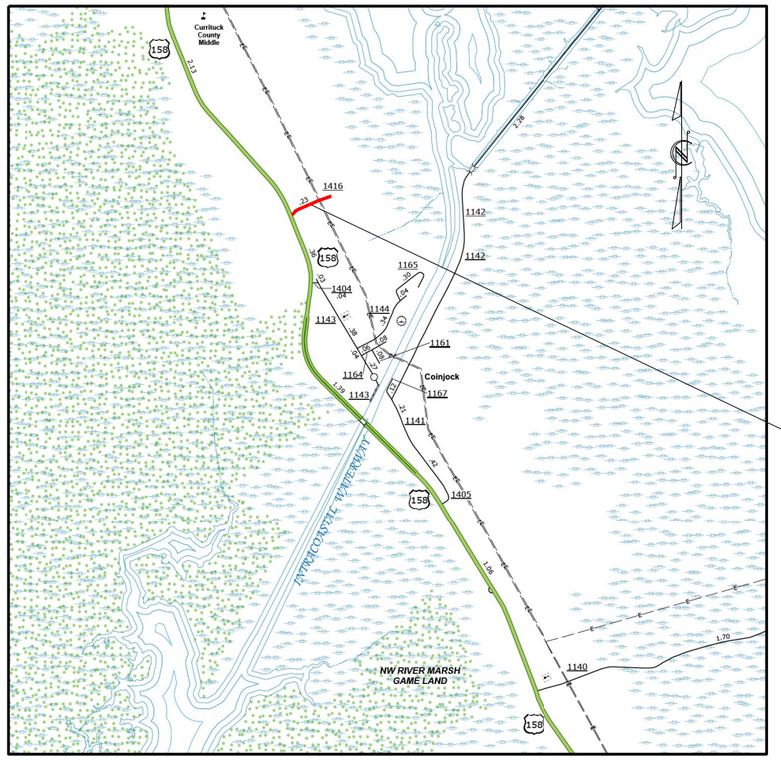
$$$$$$USERNAME$$$$$



09/08/99

CONTRACT: C204932 WBS NO.: 2024CPT.01.06.10271, ETC.

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

STATE	STATE PROJECT REFERENCE NO.		SHEET NO.
N.C.	2024CPT.01.06.10271, ETC.		5
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
2024CPT.01.06.20271		PE, CONST	

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CURRITUCK COUNTY

LOCATION: MAP 11 - SR 1416 FROM US 158 TO DEAD END

TYPE OF WORK: RESURFACING & SHOULDER RECONSTRUCTION

REV 01/11/24
D.H. STALLINGS

GRAPHIC SCALES

NTS

MAP LENGTH

MAP 11 = 0.23 MILES

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DIVISION 1
DIVISION OF HIGHWAYS
113 AIRPORT DR., EDENTON NC, 27932

2024 STANDARD SPECIFICATIONS

B. N. BRASWELL, PE
DIVISION PROJECT DEVELOPMENT ENGINEER

CHRIS SLACHTA
DIVISION CONTRACT ENGINEER

D. H. STALLINGS
DIVISION DESIGN ENGINEER

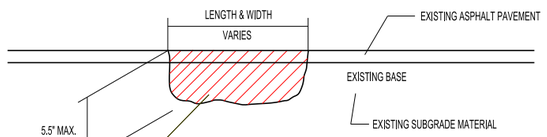
PROJECT REFERENCE NO.	SHEET NO.
2024CPT.01.06.10271, ETC.	6

PAVEMENT SCHEDULE

C1	**PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.**
V1	**INCIDENTAL MILLING ASPHALT PAVEMENT.**
V2	**MILLING ASPHALT PAVEMENT, 1.5" DEPTH**
T	**SHOULDER RECONSTRUCTION**
U	**EXISTING PAVEMENT**

NOTES:

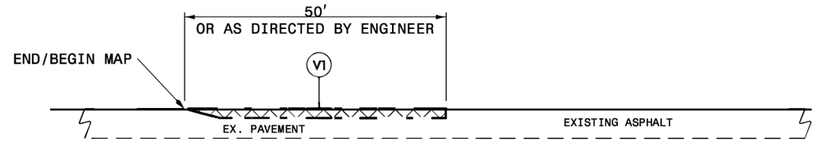
* ALL INTERSECTING ROADS ARE TO BE RESURFACED TO THE ENDS OF THEIR RADII, THE MAIN LINE RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER. THIS SHALL INCLUDE ANY TAPERS AND TURN LANES LOCATED BOTH ON THE MAIN LINE OR INTERSECTING PAVED ROADWAY.
* EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES.
* 1.5" OF S9.5C TO BE APPLIED THE FULL WIDTH OF THE ROADWAY
* CONTRACTOR SHALL PERFORM PATCHING EXISTING PAVEMENT, FULL DEPTH BEFORE APPLICATION OF 1.5" OF S9.5C



SAW AND REMOVE EXISTING ASPHALT PAVEMENT TO NEAT LINES AND REMOVE EXISTING LOOSE BASE AND/OR SUBGRADE MATERIAL AND REPLACE WITH ACIC TYPE I19.0C OR ACBC B25.0C AS DIRECTED BY THE ENGINEER

*NOTE: EDGES OF PATCHED AREA ARE TO BE CLEANED OF ALL DEBRIS AND COATED WITH AN APPROVED TACK MATERIAL BEFORE PLACING ASPHALT.

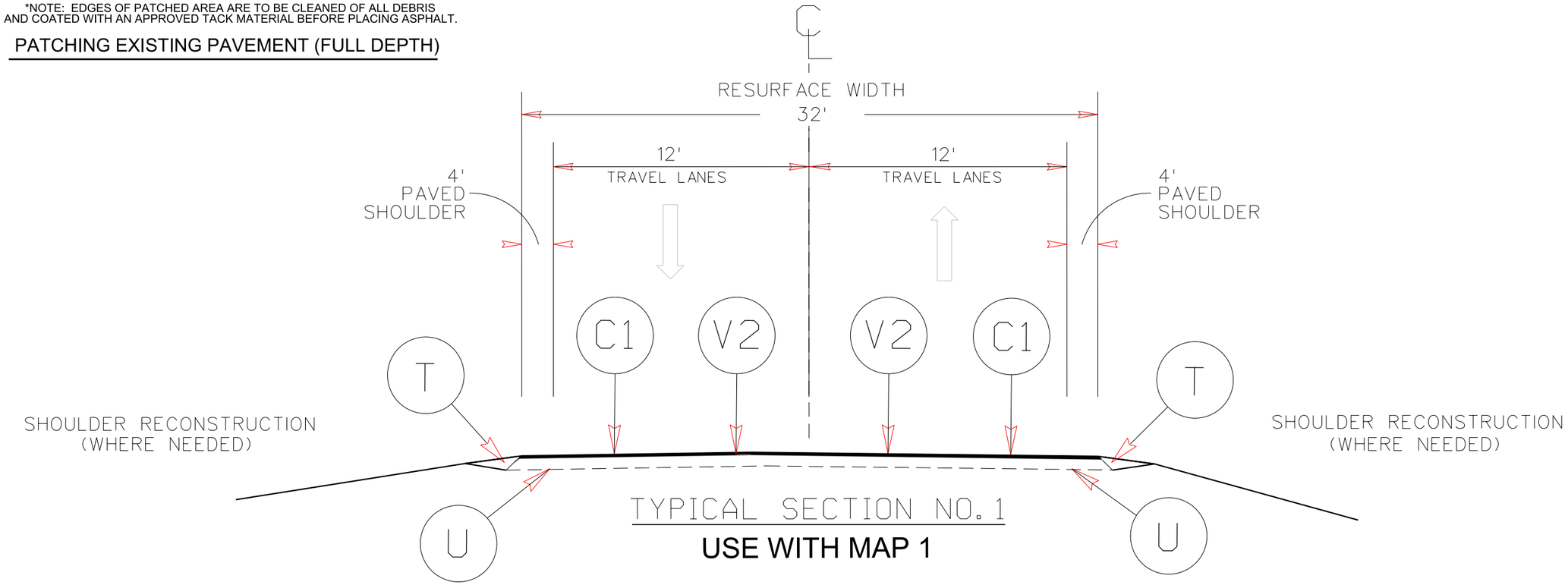
PATCHING EXISTING PAVEMENT (FULL DEPTH)



DETAIL 1

MAIN LINE MILLING

NOTE:
1. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE SECTIONS, OR AS DIRECTED BY THE ENGINEER.
2. PAVE TO THE END OF THE MILLED SURFACE TO CREATE A SMOOTH TRANSITION.



TYPICAL SECTION NO. 1

USE WITH MAP 1

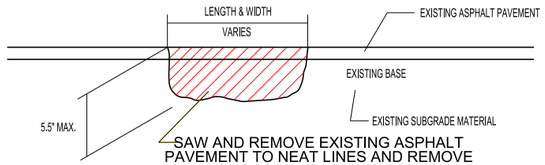
PROJECT REFERENCE NO.	SHEET NO.
2024CPT.01.06.10271, ETC.	7

PAVEMENT SCHEDULE

C1	**PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.**
V1	**INCIDENTAL MILLING ASPHALT PAVEMENT.**
V2	**MILLING ASPHALT PAVEMENT, 1.5" DEPTH**
U	**EXISTING PAVEMENT**

NOTES:

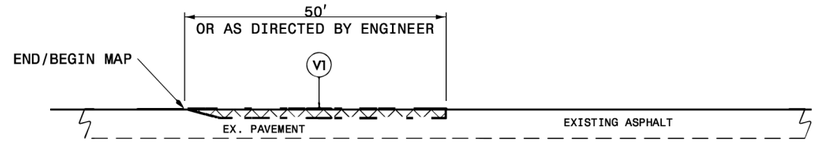
* ALL INTERSECTING ROADS ARE TO BE RESURFACED TO THE ENDS OF THEIR RADII, THE MAIN LINE RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER. THIS SHALL INCLUDE ANY TAPERS AND TURN LANES LOCATED BOTH ON THE MAIN LINE OR INTERSECTING PAVED ROADWAY.
* EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES.
* 1.5" OF S9.5C TO BE APPLIED THE FULL WIDTH OF THE ROADWAY
* CONTRACTOR SHALL PERFORM PATCHING EXISTING PAVEMENT, FULL DEPTH BEFORE APPLICATION OF 1.5" OF S9.5C



SAW AND REMOVE EXISTING ASPHALT PAVEMENT TO NEAT LINES AND REMOVE EXISTING LOOSE BASE AND/OR SUBGRADE MATERIAL AND REPLACE WITH ACIC TYPE I19.0C OR ACBC B25.0C AS DIRECTED BY THE ENGINEER

*NOTE: EDGES OF PATCHED AREA ARE TO BE CLEANED OF ALL DEBRIS AND COATED WITH AN APPROVED TACK MATERIAL BEFORE PLACING ASPHALT.

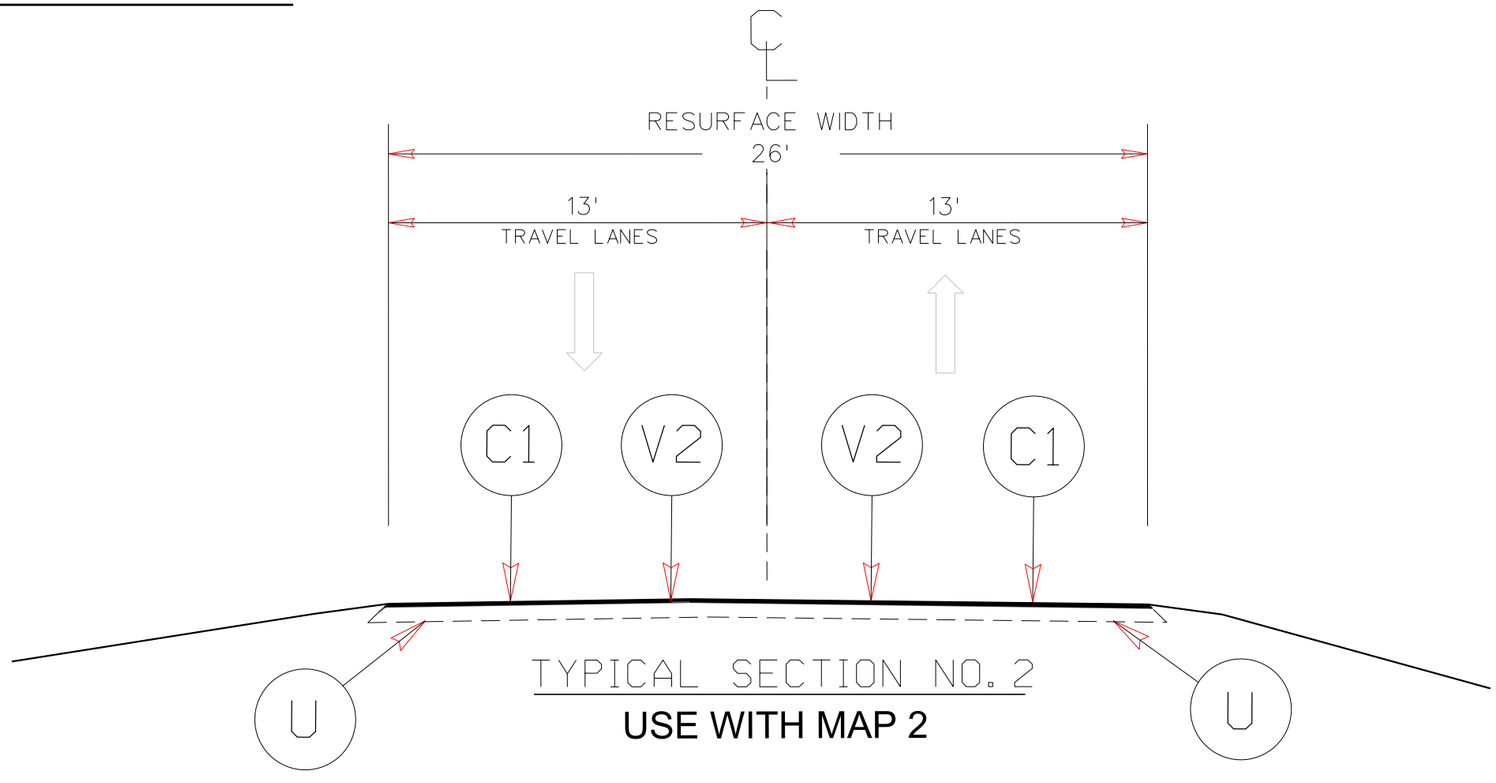
PATCHING EXISTING PAVEMENT (FULL DEPTH)



DETAIL 1

MAIN LINE MILLING

NOTE:
1. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE SECTIONS, OR AS DIRECTED BY THE ENGINEER.
2. PAVE TO THE END OF THE MILLED SURFACE TO CREATE A SMOOTH TRANSITION.



TYPICAL SECTION NO. 2

USE WITH MAP 2

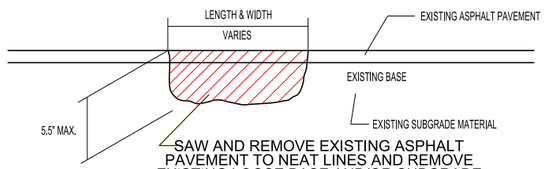
PROJECT REFERENCE NO.	SHEET NO.
2024CPT.01.06.10271, ETC.	8

PAVEMENT SCHEDULE

C2	**PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.**
V1	**INCIDENTAL MILLING ASPHALT PAVEMENT.**
T	**SHOULDER RECONSTRUCTION**
U	**EXISTING PAVEMENT**

NOTES:

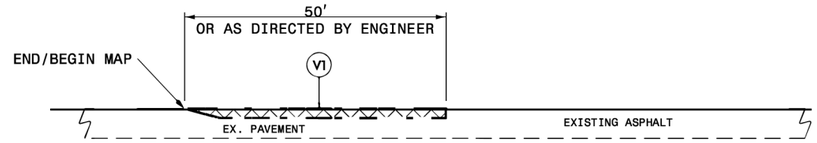
* ALL INTERSECTING ROADS ARE TO BE RESURFACED TO THE ENDS OF THEIR RADII, THE MAIN LINE RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER. THIS SHALL INCLUDE ANY TAPERS AND TURN LANES LOCATED BOTH ON THE MAIN LINE OR INTERSECTING PAVED ROADWAY.
* EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES.
* 1.5" OF S9.5B TO BE APPLIED THE FULL WIDTH OF THE ROADWAY
* CONTRACTOR SHALL PERFORM PATCHING EXISTING PAVEMENT, FULL DEPTH BEFORE APPLICATION OF 1.5" OF S9.5B



SAW AND REMOVE EXISTING ASPHALT PAVEMENT TO NEAT LINES AND REMOVE EXISTING LOOSE BASE AND/OR SUBGRADE MATERIAL AND REPLACE WITH ACIC TYPE I19.0C OR ACBC B25.0C AS DIRECTED BY THE ENGINEER

*NOTE: EDGES OF PATCHED AREA ARE TO BE CLEANED OF ALL DEBRIS AND COATED WITH AN APPROVED TACK MATERIAL BEFORE PLACING ASPHALT.

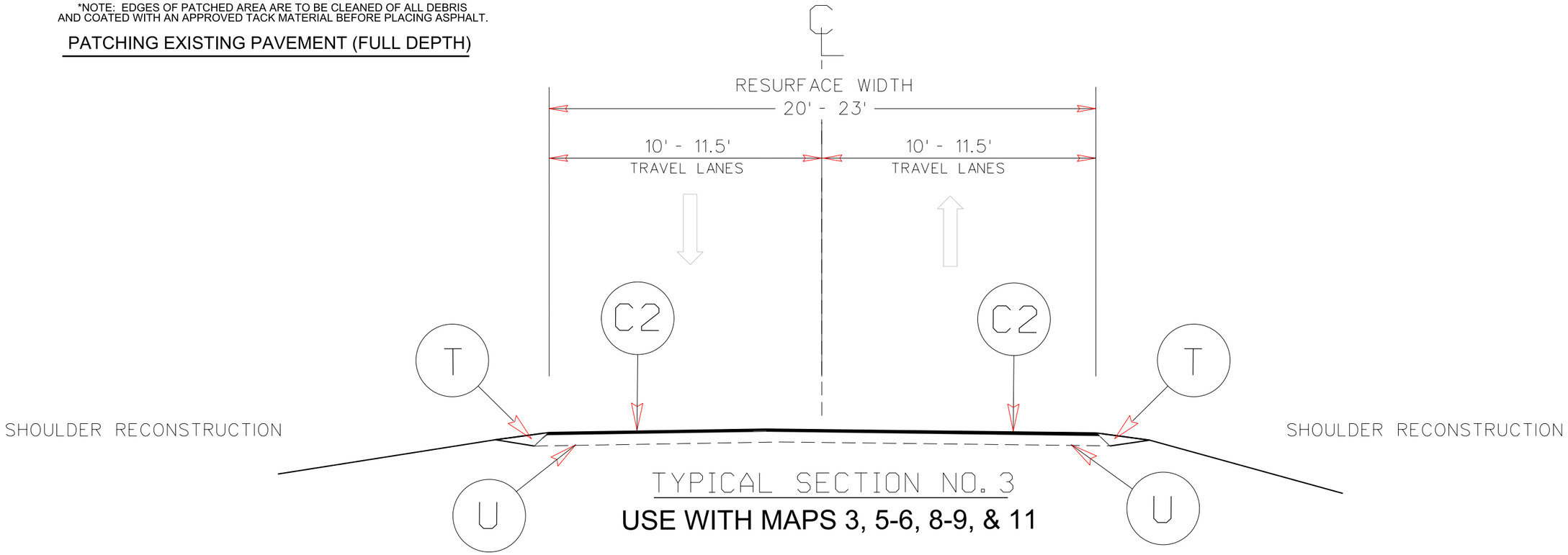
PATCHING EXISTING PAVEMENT (FULL DEPTH)



DETAIL 1

MAIN LINE MILLING

NOTE:
1. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE SECTIONS, OR AS DIRECTED BY THE ENGINEER.
2. PAVE TO THE END OF THE MILLED SURFACE TO CREATE A SMOOTH TRANSITION.



TYPICAL SECTION NO. 3

USE WITH MAPS 3, 5-6, 8-9, & 11

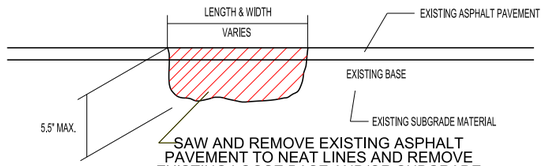
PROJECT REFERENCE NO.	SHEET NO.
2024CPT.01.06.10271, ETC.	9

PAVEMENT SCHEDULE

C2	**PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.**
V1	**INCIDENTAL MILLING ASPHALT PAVEMENT.**
V2	**MILLING ASPHALT PAVEMENT, 1.5" DEPTH**
T	**SHOULDER RECONSTRUCTION**
U	**EXISTING PAVEMENT**

NOTES:

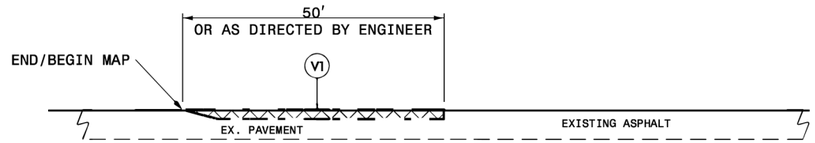
* ALL INTERSECTING ROADS ARE TO BE RESURFACED TO THE ENDS OF THEIR RADII, THE MAIN LINE RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER. THIS SHALL INCLUDE ANY TAPERS AND TURN LANES LOCATED BOTH ON THE MAIN LINE OR INTERSECTING PAVED ROADWAY.
* EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES.
* 1.5" OF S9.5B TO BE APPLIED THE FULL WIDTH OF THE ROADWAY
* CONTRACTOR SHALL PERFORM PATCHING EXISTING PAVEMENT, FULL DEPTH BEFORE APPLICATION OF 1.5" OF S9.5B
* SHOULDER RECONSTRUCTION ON ONE SIDE ONLY.



SAW AND REMOVE EXISTING ASPHALT PAVEMENT TO NEAT LINES AND REMOVE EXISTING LOOSE BASE AND/OR SUBGRADE MATERIAL AND REPLACE WITH ACIC TYPE I19.0C OR ACBC B25.0C AS DIRECTED BY THE ENGINEER

*NOTE: EDGES OF PATCHED AREA ARE TO BE CLEANED OF ALL DEBRIS AND COATED WITH AN APPROVED TACK MATERIAL BEFORE PLACING ASPHALT.

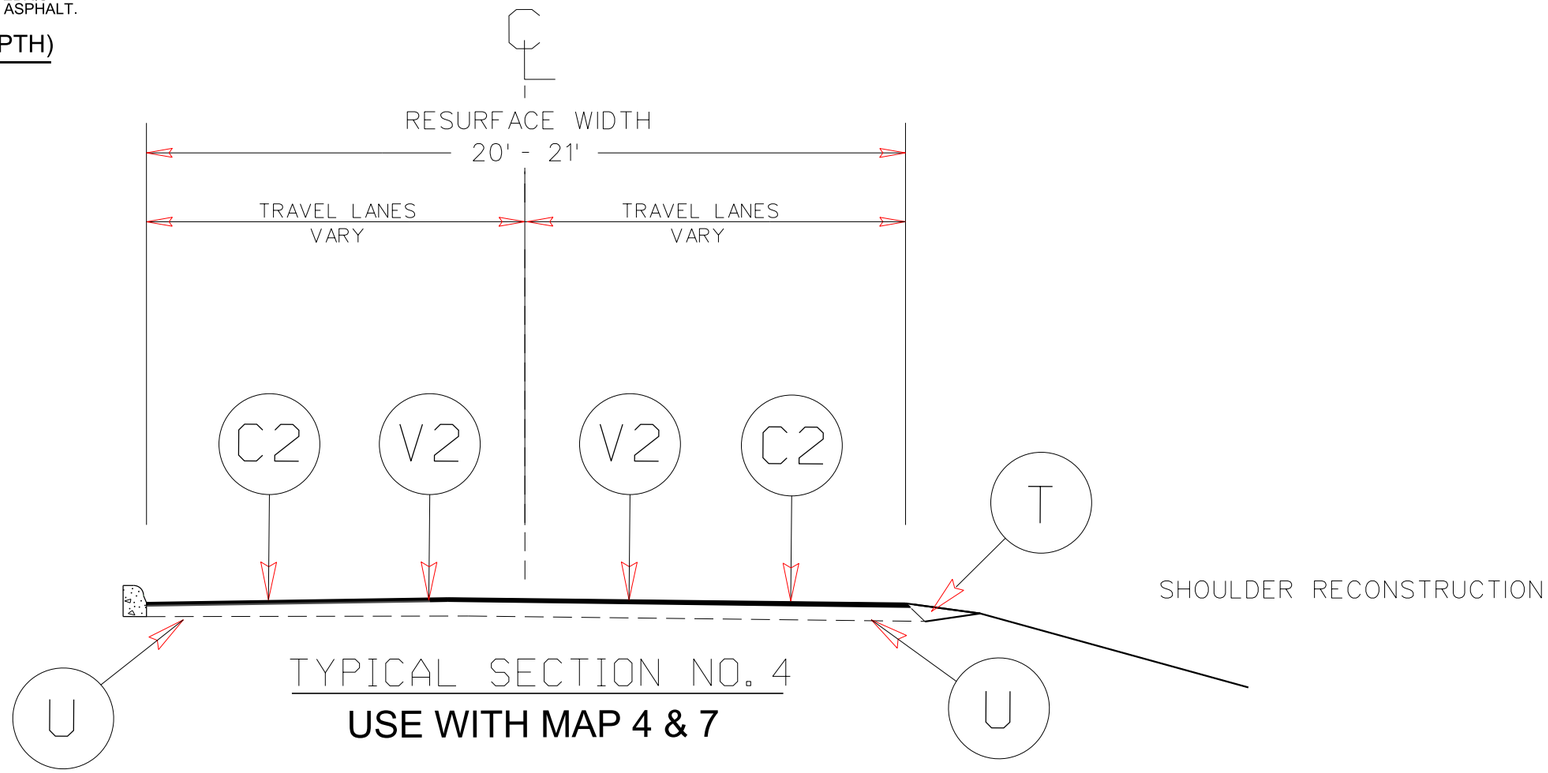
PATCHING EXISTING PAVEMENT (FULL DEPTH)



DETAIL 1

MAIN LINE MILLING

NOTE:
1. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE SECTIONS, OR AS DIRECTED BY THE ENGINEER.
2. PAVE TO THE END OF THE MILLED SURFACE TO CREATE A SMOOTH TRANSITION.



TYPICAL SECTION NO. 4

USE WITH MAP 4 & 7

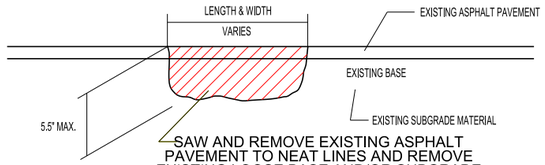
PROJECT REFERENCE NO.	SHEET NO.
2024CPT.01.06.10271, ETC.	10

PAVEMENT SCHEDULE

C2	**PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.**
V1	**INCIDENTAL MILLING ASPHALT PAVEMENT.**
V2	**MILLING ASPHALT PAVEMENT, 1.5" DEPTH**
T	**SHOULDER RECONSTRUCTION**
U	**EXISTING PAVEMENT**

NOTES:

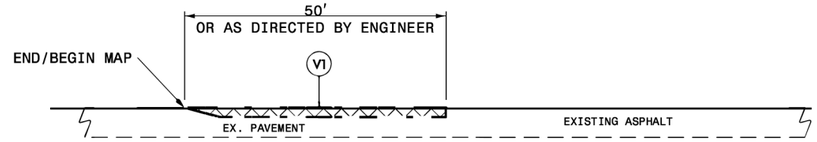
* ALL INTERSECTING ROADS ARE TO BE RESURFACED TO THE ENDS OF THEIR RADII, THE MAIN LINE RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER. THIS SHALL INCLUDE ANY TAPERS AND TURN LANES LOCATED BOTH ON THE MAIN LINE OR INTERSECTING PAVED ROADWAY.
* EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES.
* 1.5" OF S9.5B TO BE APPLIED THE FULL WIDTH OF THE ROADWAY
* CONTRACTOR SHALL PERFORM PATCHING EXISTING PAVEMENT, FULL DEPTH BEFORE APPLICATION OF 1.5" OF S9.5B



SAW AND REMOVE EXISTING ASPHALT PAVEMENT TO NEAT LINES AND REMOVE EXISTING LOOSE BASE AND/OR SUBGRADE MATERIAL AND REPLACE WITH ACIC TYPE I19.0C OR ACBC B25.0C AS DIRECTED BY THE ENGINEER

*NOTE: EDGES OF PATCHED AREA ARE TO BE CLEANED OF ALL DEBRIS AND COATED WITH AN APPROVED TACK MATERIAL BEFORE PLACING ASPHALT.

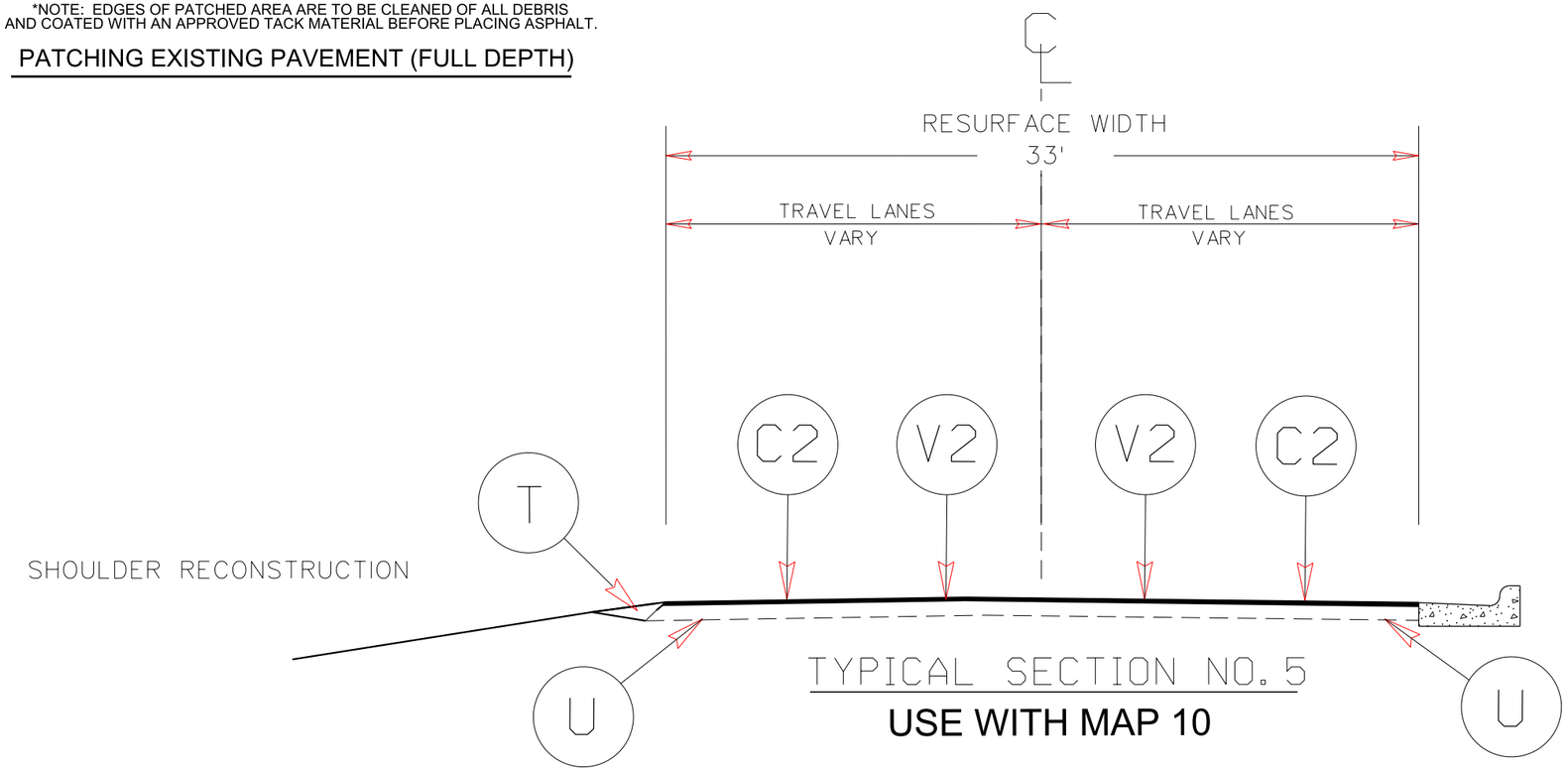
PATCHING EXISTING PAVEMENT (FULL DEPTH)



DETAIL 1

MAIN LINE MILLING

NOTE:
1. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE SECTIONS, OR AS DIRECTED BY THE ENGINEER.
2. PAVE TO THE END OF THE MILLED SURFACE TO CREATE A SMOOTH TRANSITION.



TYPICAL SECTION NO. 5

USE WITH MAP 10

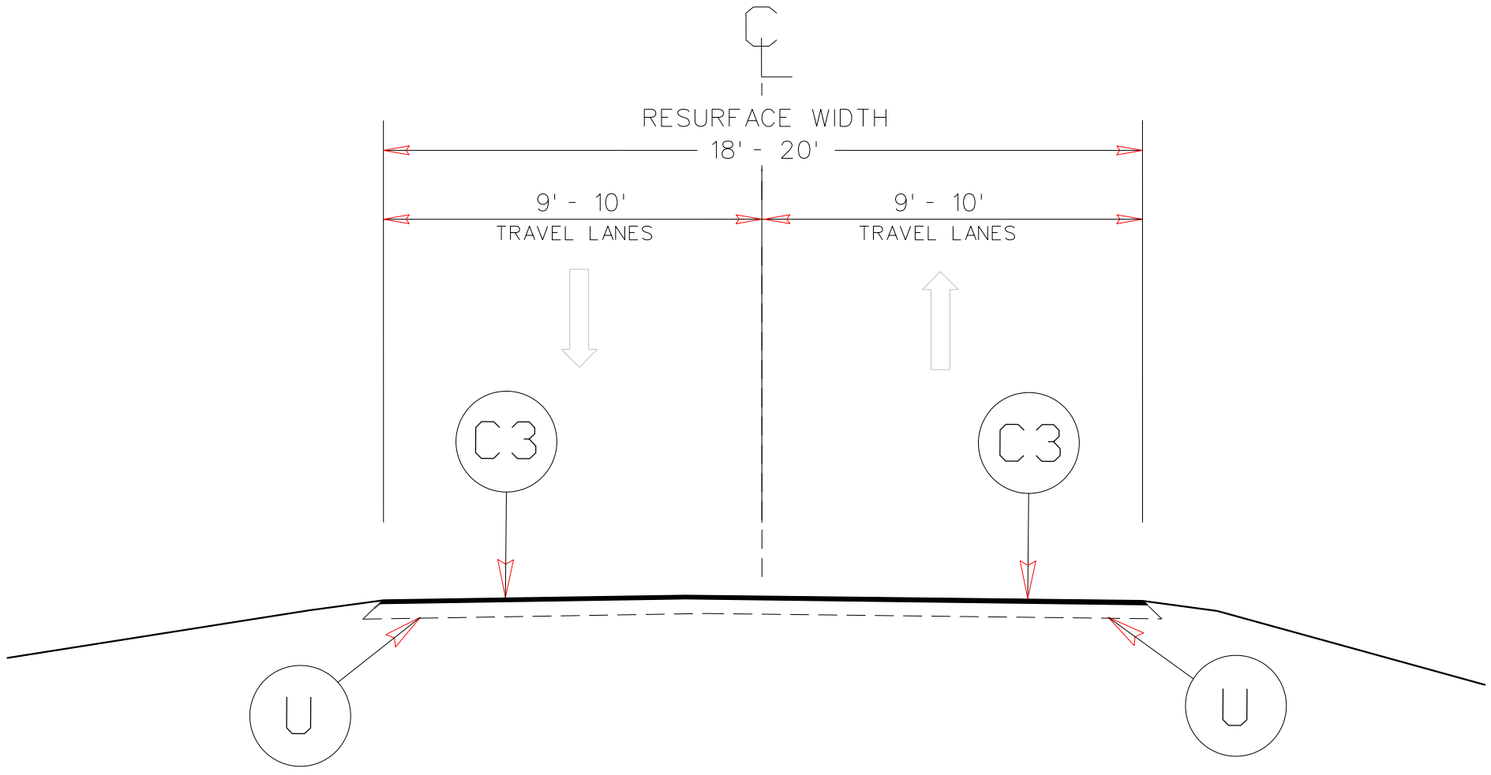
PROJECT REFERENCE NO.	SHEET NO.
2024CPT.01.06.10271, ETC.	11

PAVEMENT SCHEDULE

C3	PROP. APPROX. 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 138 LBS. PER SQ. YD.
U	EXISTING PAVEMENT

NOTES:

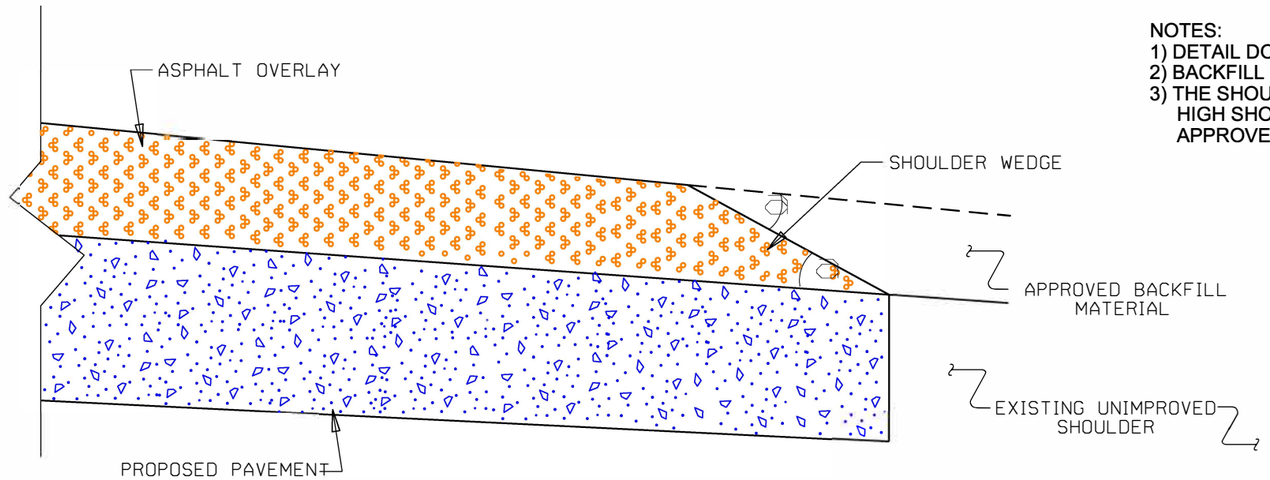
* ALL INTERSECTING ROADS ARE TO BE RESURFACED TO THE ENDS OF THEIR RADII, THE MAIN LINE RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER. THIS SHALL INCLUDE ANY TAPERS AND TURN LANES LOCATED BOTH ON THE MAIN LINE OR INTERSECTING PAVED ROADWAY.
* EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES.
* 1.25" OF S9.5B TO BE APPLIED THE FULL WIDTH OF THE ROADWAY



TYPICAL SECTION NO. 6

USE WITH MAP 12-16

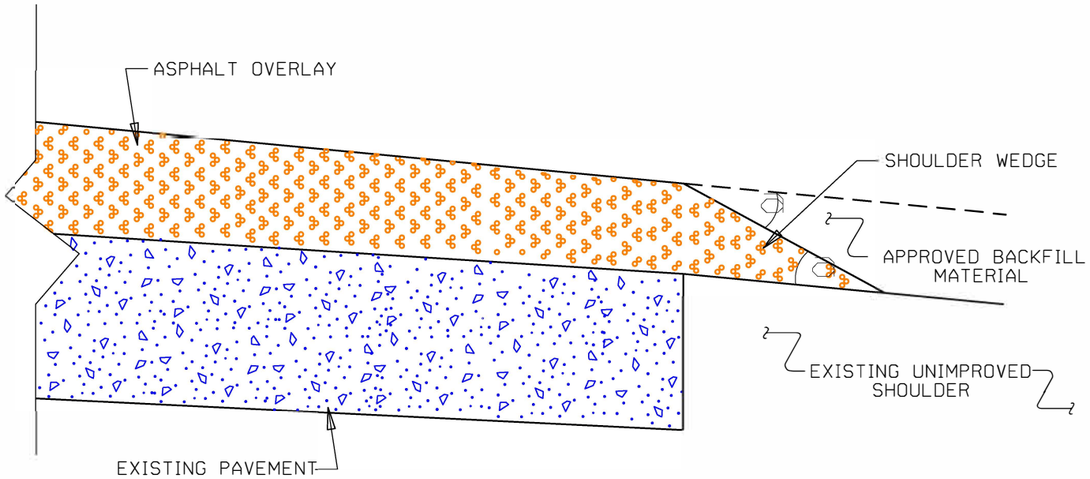
PROJECT REFERENCE NO.	SHEET NO.
2024CPT.01.06.10271, ETC.	12



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.

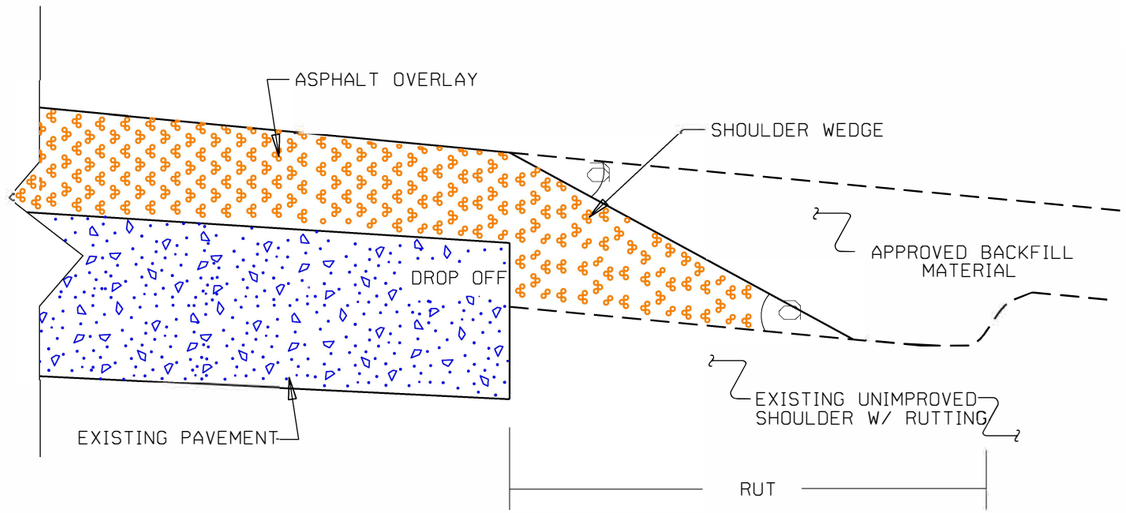
SHOULDER WEDGE DETAIL

(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)

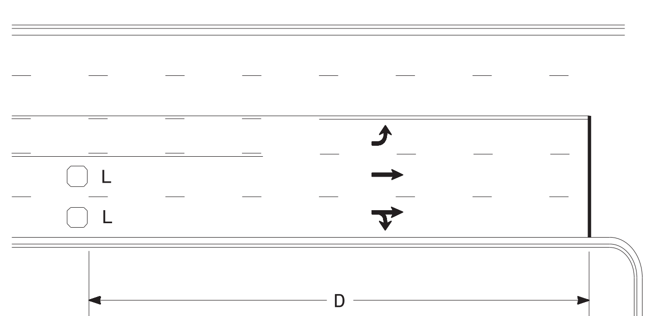
- SHOULDER WEDGE ANGLE = 30°

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

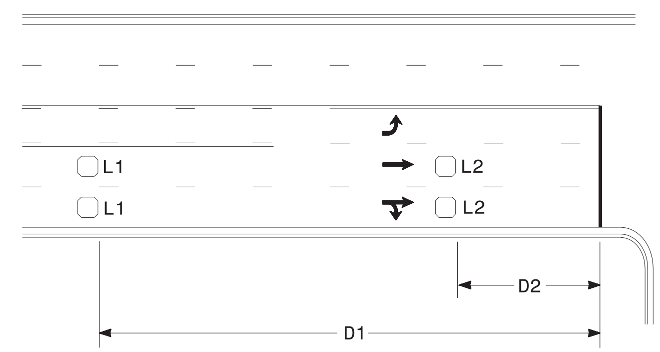
SHOULDER WEDGE DETAILS

ORIGINAL BY: T.SPELL DATE: 7-19-11
MODIFIED BY: DATE: 10/16/12
CHECKED BY: DATE:
FILE SPEC.: sivr/details/stand/shoulderwedgedetail.dgn

High Speed Detection
(≥40 mph)



OR



Speed Limit mph	D ft
40	250
45	300
50	355
55	420

L = 6ft X 6ft
Wired separately

Volume Density Operation

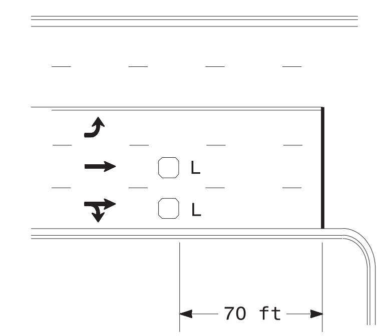
Speed Limit mph	D1 ft	D2 ft
40	250	80
45	300	90
50	355	100
55	420	110

L1 = 6ft X 6ft
Wired in series

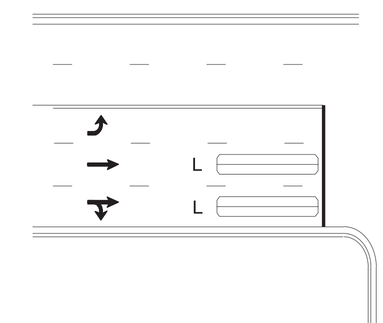
L2 = 6ft X 6ft
Wired in series

"Stretch" Operation

Low Speed Detection
(≤35 mph)



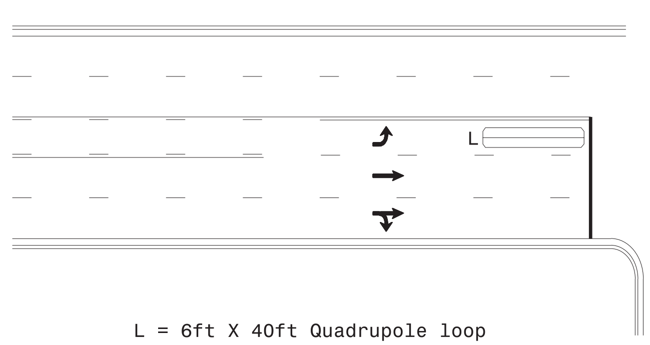
OR



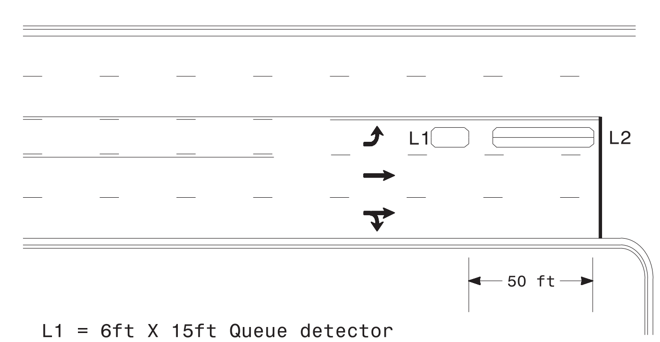
L = 6ft X 6ft
Wired in series

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

Left Turn Lane Detection



OR



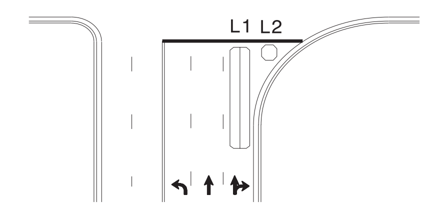
L = 6ft X 40ft Quadrupole loop

Presence Loop Detection

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

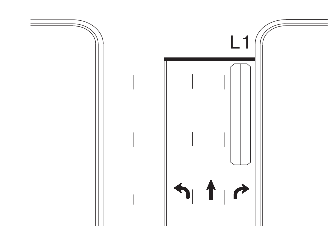
Queue Loop Detection

Right Turn Lane Detection

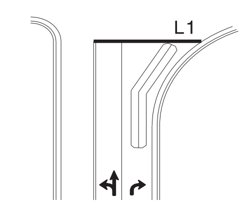


Shared Lane/
Wide Radius Turn

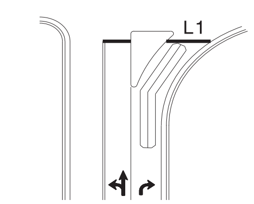
L1 = 6ft X 40ft Quadrupole loop
L2 = 6ft X 6ft [Minimum] Presence loop
Wired separately



Standard Turn

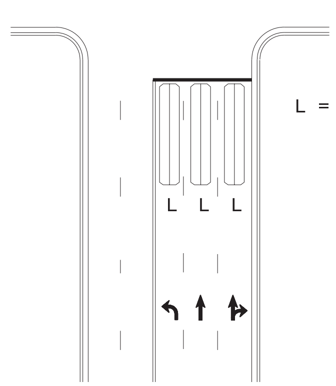


Wide Radius Turn



Channelized Turn

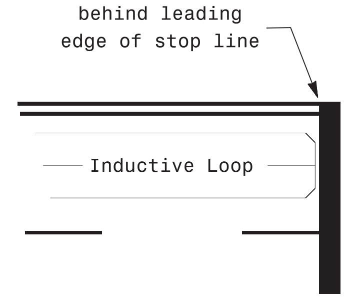
Side Street Detection



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

Presence Loop Placement at Stop Lines

Locate loop slightly
behind leading
edge of stop line



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
State of North Carolina Department of Transportation
Signal Design Section
750 N.Greenfield Pkwy.Garner,NC 27529

Typical Signal Loop Locations

PLAN DATE:	September 2020	REVIEWED BY:	JPG
PREPARED BY:	PLA	REVIEWED BY:	

SCALE
N/A

REVISIONS	INIT.	DATE

SEAL
North Carolina Professional Engineer Seal 029904 Jason P. Galloway
Jason P. Galloway
9/8/2020
DATE
SIG. INVENTORY NO.

08-SEP-2020 11:54
S:*ITS&SU*ITS Signals*Signal Design Section*Eastern Region*Loop Typical*looptypical2015.dgn
jgalloway

PROJECT NO.	SHEET NO.	TOTAL NO.
2024CPT.01.06.10271, ETC.	14	

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	MATERIAL TRANSFER VEHICLE REQUIRED	0000100000-N MOBILIZATION	0106000000-E BORROW EXCAVATION	1220000000-E INCIDENTAL STONE BASE	1245000000-E SHOULDER RECONSTRUCTION	1297000000-E MILLING ASPHALT PAVEMENT (1½")	1330000000-E INCIDENTAL MILLING	1519000000-E ASPHALT CONC SURFACE COURSE, S9.5B	1523000000-E ASPHALT CONC SURFACE COURSE, S9.5C	1575000000-E ASPHALT BINDER FOR PLANT MIX
										MI	FT		LS	CY	TONS	SMI	SY	SY	TONS	TONS	TONS
2024CPT.01.06.10271	Currituck	1	NC-12 E / OCEAN TRAIL	FROM DARE COUNTY LINE @ (MP 0.00) TO SR 1437 (NORTH BEACH ACCESS ROAD) @ (MP 11.11)	1	2	2WU	NO	NO	11.11	32	YES	1	200	108	22.22	210,201	17,885		21,013	1,242
2024CPT.01.06.10271	Currituck	2	NC-34 E / SHAWBORO RD	FROM RAILROAD CROSSING TO PAVEMENT JOINT	2	2	2WU	NO	NO	2.25	26	YES	*		198		34,381	4,195		3,597	213
TOTAL FOR PROJ NO. 2024CPT.01.06.10271										**13.36**			*	**200**	**306**	**22.22**	**244,582**	**22,080**		**24,610**	**1,455**
2024CPT.01.06.20271	Currituck	3	SR-1103 / JESSE OWENS DRIVE / HARBINGER RIDGE ROAD	FROM DEAD END (MP 0.00) TO SR 1109 (W. MOBILE ROAD) (1.48)	3	2	2WU	NO	NO	1.48	20	NO	*	74	105	2.96			1,828		119
2024CPT.01.06.20271	Currituck	4	SR-1147 / RAMP / NORTH INDIANTOWN ROAD	FROM NC 34 (MP 0.00) TO JOINT @ (MP 0.124)	4	2	2WU	NO	NO	0.12	21	NO	*	6		0.12	1,528		171		11
2024CPT.01.06.20271	Currituck	5	SR-1147 / NORTH INDIANTOWN ROAD	FROM JOINT @ (MP 0.12) TO US 158 (MP 1.99)	3	2	2WU	NO	NO	1.87	21	NO	*	93	75	3.73		156	2,104		137
2024CPT.01.06.20271	Currituck	6	SR-1200 / SANDERLIN ROAD	FROM US 158 (MP 0.00) TO SR 1147 (N. INDIANTOWN ROAD) (0.96)	3	2	2WU	NO	NO	0.96	20	NO	*	48	55	1.92			1,029		67
2024CPT.01.06.20271	Currituck	7	SR-1205 / POUT HOUSE LANE	FROM NC 34 (MP 0.00) TO SR 1147 (NORTH INDIANTOWN ROAD) (MP 0.13)	4	2	2WU	NO	NO	0.13	20	NO	*	6		0.13	1,525		139		9
2024CPT.01.06.20271	Currituck	8	SR-1215 / SURVEY ROAD	FROM NC 168 (MP 0.00) TO NC 168 (1.054)	3	2	2WU	NO	NO	1.05	23	NO	*	53	25	2.11		2,270	1,650		108
2024CPT.01.06.20271	Currituck	9	SR-1293 / BAXTER ESTATES ROAD	FROM SR 1222 (TULLS CREEK ROAD) (MP 0.00) TO CDS (MP 0.654)	3	2	2WU	NO	NO	0.65	20	NO	*	33	45	1.31		300	721		47
2024CPT.01.06.20271	Currituck	10	SR-1358 / NORTH POINT BOULEVARD	FROM NC 168 (MP 0.00) TO BEGIN 3 LANES (MP 0.11)	5	3	MU	NO	NO	0.11	33	NO	*	10		0.11	2,122	200	194		13
2024CPT.01.06.20271	Currituck	11	SR-1416 / COINJOCK VILLAGE DRIVE	FROM US 158 (MP 0.00) TO EOM (MP 0.23)	3	2	2WU	NO	NO	0.23	20	NO	*	12	25	0.46			246		16
TOTAL FOR PROJ NO. 2024CPT.01.06.20271										**6.61**			*	**335**	**330**	**12.85**	**5,175**	**2,926**	**8,082**		**527**
2024CPT.01.06.20272	Currituck	12	SR-1238 / CREEKMORE ROAD	FROM SR 1222 (TULLS CREEK ROAD) (MP 0.00) TO DEAD END (MP 0.55)	6	2	2WU	NO	NO	0.55	18	NO	*		16				503		33
2024CPT.01.06.20272	Currituck	13	SR-1343 / CURRITUCK SOUND DRIVE	FROM NC 168 TO SR 1344 (CAROTAUK DRIVE)	6	2	2WU	NO	NO	0.42	20	NO	*		10				389		25
2024CPT.01.06.20272	Currituck	14	SR-1344 / CAROTAUK DRIVE	FROM SR 1343 (CURRITUCK SOUND DRIVE) (MP 0.00) TO CDS (MP 0.25)	6	2	2WU	NO	NO	0.25	20	NO	*		5				283		18
2024CPT.01.06.20272	Currituck	15	SR-1345 / SOUND SHORE DRIVE	FROM SR 1343 (CURRITUCK SOUND DRIVE) (MP 0.00) TO SR 1344 (CAROTAUK DRIVE) (MP 0.59)	6	2	2WU	NO	NO	0.59	20	NO	*		5				548		36
2024CPT.01.06.20272	Currituck	16	SR-1398 / CYGNET COURT	FROM SR 1345 (SOUND SHORE DR.) TO CDS	6	2	2WU	NO	NO	0.06	20	NO	*						70		5
TOTAL FOR PROJ NO. 2024CPT.01.06.20272										**1.87**			*		**36**				**1,793**		**117**
GRAND TOTAL										**21.84**			*	**535**	**672**	**35.07**	**249,757**	**25,006**	**9,875**	**24,610**	**2,099**

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	MATERIAL TRANSFER VEHICLE REQUIRED	1705000000-E PATCHING EXISTING PAVEMENT (FULL DEPTH)	2830000000-N ADJUSTMENT OF MANHOLES	2845000000-N ADJUSTMENT OF METER OR VALVE BOXES	60000000000-E TEMPORARY SILT FENCE	6071012000-E COIR FIBER WATTLE	6084000000-E SEEDING & MULCHING	6117000000-N RESPONSE FOR EROSION CONTROL	7324000000-N JUNCTION BOX (STD SIZE)	7444000000-E INDUCTIVE LOOP SAWCUT	7456100000-E LEAD-IN CABLE (14-2)
										MI	FT		TON	EA	EA	LF	LF	ACR	EA	EA	LF	LF
2024CPT.01.06.10271	Currituck	1	NC-12 E / OCEAN TRAIL	FROM DARE COUNTY LINE @ (MP 0.00) TO SR 1437 (NORTH BEACH ACCESS ROAD) @ (MP 11.11)	1	2	2WU	NO	NO	11.11	32	YES	50	5	24	1,000	250	5.56	6	4	1,120	315
2024CPT.01.06.10271	Currituck	2	NC-34 E / SHAWBORO RD	FROM RAILROAD CROSSING TO PAVEMENT JOINT	2	2	2WU	NO	NO	2.25	26	YES	15									
TOTAL FOR PROJ NO. 2024CPT.01.06.10271										**13.36**			**65**	**5**	**24**	**1,000**	**250**	**5.56**	**6**	**4**	**1,120**	**315**
2024CPT.01.06.20271	Currituck	3	SR-1103 / JESSE OWENS DRIVE / HARBINGER RIDGE ROAD	FROM DEAD END (MP 0.00) TO SR 1109 (W. MOBILE ROAD) (1.48)	3	2	2WU	NO	NO	1.48	20	NO	5			50	20	1.48	1			
2024CPT.01.06.20271	Currituck	4	SR-1147 / RAMP / NORTH INDIANTOWN ROAD	FROM NC 34 (MP 0.00) TO JOINT @ (MP 0.124)	4	2	2WU	NO	NO	0.12	21	NO	1					0.62				
2024CPT.01.06.20271	Currituck	5	SR-1147 / NORTH INDIANTOWN ROAD	FROM JOINT @ (MP 0.12) TO US 158 (MP 1.99)	3	2	2WU	NO	NO	1.87	21	NO	10			100	30	1.87	1			
2024CPT.01.06.20271	Currituck	6	SR-1200 / SANDERLIN ROAD	FROM US 158 (MP 0.00) TO SR 1147 (N. INDIANTOWN ROAD) (0.96)	3	2	2WU	NO	NO	0.96	20	NO	10			50	20	0.96	1			
2024CPT.01.06.20271	Currituck	7	SR-1205 / POUT HOUSE LANE	FROM NC 34 (MP 0.00) TO SR 1147 (NORTH INDIANTOWN ROAD) (MP 0.13)	4	2	2WU	NO	NO	0.13	20	NO						0.07				
2024CPT.01.06.20271	Currituck	8	SR-1215 / SURVEY ROAD	FROM NC 168 (MP 0.00) TO NC 168 (1.054)	3	2	2WU	NO	NO	1.05	23	NO	6		4	100	30	1.05	1	2	180	100
2024CPT.01.06.20271	Currituck	9	SR-1293 / BAXTER ESTATES ROAD	FROM SR 1222 (TULLS CREEK ROAD) (MP 0.00) TO CDS (MP 0.654)	3	2	2WU	NO	NO	0.65	20	NO	10			30	20	0.65	1			
2024CPT.01.06.20271	Currituck	10	SR-1358 / NORTH POINT BOULEVARD	FROM NC 168 (MP 0.00) TO BEGIN 3 LANES (MP 0.11)	5	3	MU	NO	NO	0.11	33	NO	5		1			0.10		2	300	25
2024CPT.01.06.20271	Currituck	11	SR-1416 / COINJOCK VILLAGE DRIVE	FROM US 158 (MP 0.00) TO EOM (MP 0.23)	3	2	2WU	NO	NO	0.23	20	NO	5					0.23				
TOTAL FOR PROJ NO. 2024CPT.01.06.20271										**6.61**			**52**		**5**	**330**	**120**	**7.03**	**4**	**4**	**480**	**125**
2024CPT.01.06.20272	Currituck	12	SR-1238 / CREEKMORE ROAD	FROM SR 1222 (TULLS CREEK ROAD) (MP 0.00) TO DEAD END (MP 0.55)	6	2	2WU	NO	NO	0.55	18	NO										
2024CPT.01.06.20272	Currituck	13	SR-1343 / CURRITUCK SOUND DRIVE	FROM NC 168 TO SR 1344 (CAROTAUK DRIVE)	6	2	2WU	NO	NO	0.42	20	NO										
2024CPT.01.06.20272	Currituck	14	SR-1344 / CAROTAUK DRIVE	FROM SR 1343 (CURRITUCK SOUND DRIVE) (MP 0.00) TO CDS (MP 0.25)	6	2	2WU	NO	NO	0.25	20	NO										
2024CPT.01.06.20272	Currituck	15	SR-1345 / SOUND SHORE DRIVE	FROM SR 1343 (CURRITUCK SOUND DRIVE) (MP 0.00) TO SR 1344 (CAROTAUK DRIVE) (MP 0.59)	6	2	2WU	NO	NO	0.59	20	NO										
2024CPT.01.06.20272	Currituck	16	SR-1398 / CYGNET COURT	FROM SR 1345 (SOUND SHORE DR.) TO CDS	6	2	2WU	NO	NO	0.06	20	NO										
TOTAL FOR PROJ NO. 2024CPT.01.06.20272										**1.87**												
GRAND TOTAL										**21.84**			**117**	**5**	**29**	**1,330**	**370**	**12.59**	**10**	**8**	**1,600**	**440**

PROJECT NO.	SHEET NO.	TOTAL NO.
2024CPT.01.06.10271, ETC.	15	

THERMOPLASTIC AND PAINT QUANTITIES

												4413000000-E	4457000000-N	4688000000-E		4700000000-E	4704000000-E	4709000000-E	4720000000-E				4725000000-E				
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	MATERIAL TRANSFER VEHICLE REQUIRED	WORK ZONE ADVANCE / GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL (SP)	THERMOPLASTIC PAVEMENT MARKING LINES (6", 90 MILS) YELLOW	THERMOPLASTIC PAVEMENT MARKING LINES (6", 90 MILS) WHITE	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)	THERMOPLASTIC PAVEMENT MARKING LINES (16", 90 MILS)	THERMOPLASTIC PAVEMENT MARKING LINES (24" 90 MILS)	THERMOPLASTIC PAVEMENT MARKING CHARACTER (90 MILS), RXR	THERMOPLASTIC PAVEMENT MARKING CHARACTER (90 MILS), STOP	THERMOPLASTIC PAVEMENT MARKING CHARACTER (90 MILS), AHEAD	THERMOPLASTIC PAVEMENT MARKING CHARACTER (90 MILS), SCHOOL	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS), STR ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS), LT ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS), RT ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS), STR & LT ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS), STR & RT ARROW
								MI	FT		SF	LS	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA
2024CPT.01.06.10271	Currituck	1	NC-12 E / OCEAN TRAIL	FROM DARE COUNTY LINE @ (MP 0.00) TO SR 1437 (NORTH BEACH ACCESS ROAD) @ (MP 11.11)	1	2	2WU	11.11	32	YES	667	1	86,251		684		2,757					9	49	19	1	6
2024CPT.01.06.10271	Currituck	2	NC-34 E / SHAWBORO RD	FROM RAILROAD CROSSING TO PAVEMENT JOINT	2	2	2WU	2.25	26	YES	328	*	15,985	23,920			40	60	2							
TOTAL FOR PROJ NO. 2024CPT.01.06.10271								**13.36**			**995**	*	**102,236**	**23,920**	**684**	**40**	**2,817**	**2**				**9**	**49**	**19**	**1**	**6**
													126,156						**2**					**84**		
2024CPT.01.06.20271	Currituck	3	SR-1103 / JESSE OWENS DRIVE / HARBINGER RIDGE ROAD	FROM DEAD END (MP 0.00) TO SR 1109 (W. MOBILE ROAD) (1.48)	3	2	2WU	1.48	20	NO		*														
2024CPT.01.06.20271	Currituck	4	SR-1147 / RAMP / NORTH INDIANTOWN ROAD	FROM NC 34 (MP 0.00) TO JOINT @ (MP 0.124)	4	2	2WU	0.12	21	NO		*						16								
2024CPT.01.06.20271	Currituck	5	SR-1147 / NORTH INDIANTOWN ROAD	FROM JOINT @ (MP 0.12) TO US 158 (MP 1.99)	3	2	2WU	1.87	21	NO		*			12					4	5					
2024CPT.01.06.20271	Currituck	6	SR-1200 / SANDERLIN ROAD	FROM US 158 (MP 0.00) TO SR 1147 (N. INDIANTOWN ROAD) (0.96)	3	2	2WU	0.96	20	NO		*														
2024CPT.01.06.20271	Currituck	7	SR-1205 / POUT HOUSE LANE	FROM NC 34 (MP 0.00) TO SR 1147 (NORTH INDIANTOWN ROAD) (MP 0.13)	4	2	2WU	0.13	20	NO		*														
2024CPT.01.06.20271	Currituck	8	SR-1215 / SURVEY ROAD	FROM NC 168 (MP 0.00) TO NC 168 (1.054)	3	2	2WU	1.05	23	NO		*						215				3	15	8		
2024CPT.01.06.20271	Currituck	9	SR-1293 / BAXTER ESTATES ROAD	FROM SR 1222 (TULLS CREEK ROAD) (MP 0.00) TO CDS (MP 0.654)	3	2	2WU	0.65	20	NO		*						12								
2024CPT.01.06.20271	Currituck	10	SR-1358 / NORTH POINT BOULEVARD	FROM NC 168 (MP 0.00) TO BEGIN 3 LANES (MP 0.11)	5	3	MU	0.11	33	NO		*						33					2	2		
2024CPT.01.06.20271	Currituck	11	SR-1416 / COINJOCK VILLAGE DRIVE	FROM US 158 (MP 0.00) TO EOM (MP 0.23)	3	2	2WU	0.23	20	NO		*														
TOTAL FOR PROJ NO. 2024CPT.01.06.20271								**6.61**				*			**12**			**276**		**4**	**5**	**12**	**3**	**17**	**10**		
																					21				**30**		
2024CPT.01.06.20272	Currituck	12	SR-1238 / CREEKMORE ROAD	FROM SR 1222 (TULLS CREEK ROAD) (MP 0.00) TO DEAD END (MP 0.55)	6	2	2WU	0.55	18	NO		*														
2024CPT.01.06.20272	Currituck	13	SR-1343 / CURRITUCK SOUND DRIVE	FROM NC 168 TO SR 1344 (CAROTAUK DRIVE)	6	2	2WU	0.42	20	NO		*														
2024CPT.01.06.20272	Currituck	14	SR-1344 / CAROTAUK DRIVE	FROM SR 1343 (CURRITUCK SOUND DRIVE) (MP 0.00) TO CDS (MP 0.25)	6	2	2WU	0.25	20	NO		*														
2024CPT.01.06.20272	Currituck	15	SR-1345 / SOUND SHORE DRIVE	FROM SR 1343 (CURRITUCK SOUND DRIVE) (MP 0.00) TO SR 1344 (CAROTAUK DRIVE) (MP 0.59)	6	2	2WU	0.59	20	NO		*														
2024CPT.01.06.20272	Currituck	16	SR-1398 / CYGNET COURT	FROM SR 1345 (SOUND SHORE DR.) TO CDS	6	2	2WU	0.06	20	NO		*														
TOTAL FOR PROJ NO. 2024CPT.01.06.20272								**1.87**				*														
GRAND TOTAL								**21.84**			**995**	**1**	**102,236**	**23,920**	**696**	**40**	**3,093**	**2**	**4**	**5**	**12**	**12**	**66**	**29**	**1**	**6**
													126,156							**23**				**114**		

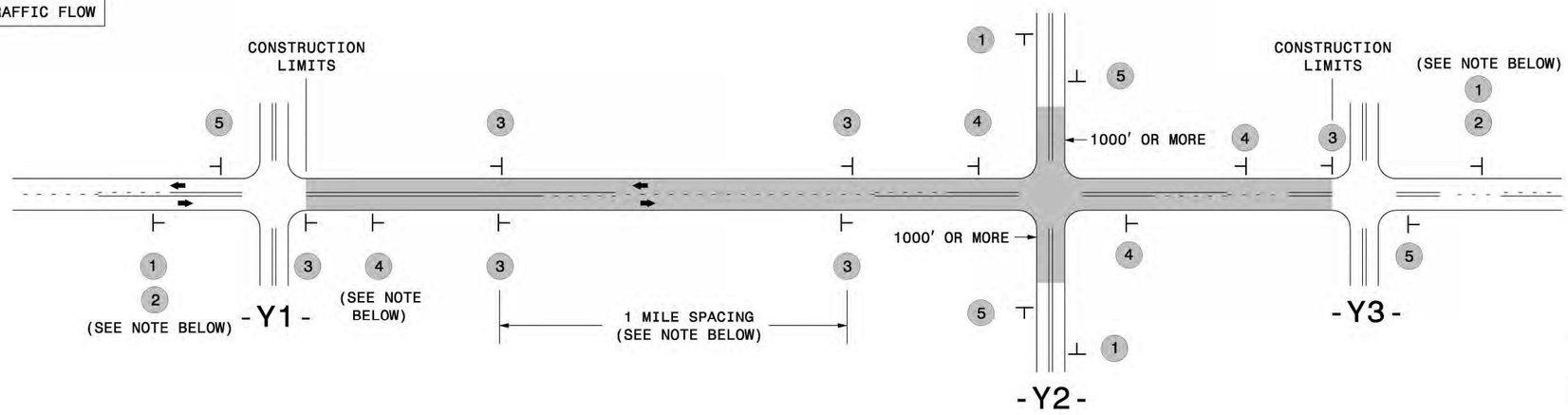
THERMOPLASTIC AND PAINT QUANTITIES

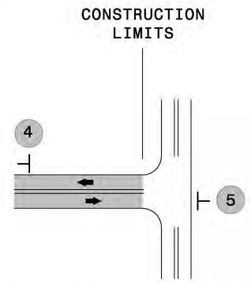
											4810000000-E		4825000000-E	4830000000-E	4835000000-E	4840000000-N				4845000000-N					4890000000-E		4890000000-E	4905100000-N
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	MATERIAL TRANSFER VEHICLE REQUIRED	PAINT PAVEMENT MARKING LINES (4") WHITE	PAINT PAVEMENT MARKING LINES (4") YELLOW	PAINT PAVEMENT MARKING LINES (12")	PAINT PAVEMENT MARKING LINES (16")	PAINT PAVEMENT MARKING LINES (24")	PAINT PAVEMENT MARKING CHARACTER (MSG RXR)	PAINT PAVEMENT MARKING CHARACTER (MSG STOP)	PAINT PAVEMENT MARKING CHARACTER (MSG AHEAD)	PAINT PAVEMENT MARKING CHARACTER (MSG SCHOOL)	PAINT PAVEMENT MARKING SYMBOL (STR ARROW)	PAINT PAVEMENT MARKING SYMBOL (LT ARROW)	PAINT PAVEMENT MARKING SYMBOL (RT ARROW)	PAINT PAVEMENT MARKING SYMBOL (STR & LT ARROW)	PAINT PAVEMENT MARKING SYMBOL (STR & RT ARROW)	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINES, (4", 55 MILS) WHITE	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINES, (4", 55 MILS) YELLOW	THERMOPLASTIC PROFILED PAVEMENT MARKING LINES, 6"	NON-CAST IRON SNOWPLOWABLE PAVEMENT MARKER
								MI	FT		LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	EA
2024CPT.01.06.10271	Currituck	1	NC-12 E / OCEAN TRAIL	FROM DARE COUNTY LINE @ (MP 0.00) TO SR 1437 (NORTH BEACH ACCESS ROAD) @ (MP 11.11)	1	2	2WU	11.11	32	YES	122,196	86,251	684		2,757					9	49	19	1	6			122,196.00	733
2024CPT.01.06.10271	Currituck	2	NC-34 E / SHAWBORO RD	FROM RAILROAD CROSSING TO PAVEMENT JOINT	2	2	2WU	2.25	26	YES	23,920	15,985		40	40	2												149
TOTAL FOR PROJ NO. 2024CPT.01.06.10271								**13.36**			**146,116**	**102,236**	**684**	**40**	**2,797**	**2**				**9**	**49**	**19**	**1**	**6**			**122,196**	**882**
											248,352					**2**				**84**								
2024CPT.01.06.20271	Currituck	3	SR-1103 / JESSE OWENS DRIVE / HARBINGER RIDGE ROAD	FROM DEAD END (MP 0.00) TO SR 1109 (W. MOBILE ROAD) (1.48)	3	2	2WU	1.48	20	NO	15,628	9,768													15,628	9,768		
2024CPT.01.06.20271	Currituck	4	SR-1147 / RAMP / NORTH INDIANTOWN ROAD	FROM NC 34 (MP 0.00) TO JOINT @ (MP 0.124)	4	2	2WU	0.12	21	NO	1,267	792			16										1,267	792		
2024CPT.01.06.20271	Currituck	5	SR-1147 / NORTH INDIANTOWN ROAD	FROM JOINT @ (MP 0.12) TO US 158 (MP 1.99)	3	2	2WU	1.87	21	NO	19,641	12,276	12				4	5							19,641	12,276		
2024CPT.01.06.20271	Currituck	6	SR-1200 / SANDERLIN ROAD	FROM US 158 (MP 0.00) TO SR 1147 (N. INDIANTOWN ROAD) (0.96)	3	2	2WU	0.96	20	NO	9,732	6,083													9,343	5,840		
2024CPT.01.06.20271	Currituck	7	SR-1205 / POUT HOUSE LANE	FROM NC 34 (MP 0.00) TO SR 1147 (NORTH INDIANTOWN ROAD) (MP 0.13)	4	2	2WU	0.13	20	NO	1,372	858													1,372	858		
2024CPT.01.06.20271	Currituck	8	SR-1215 / SURVEY ROAD	FROM NC 168 (MP 0.00) TO NC 168 (1.054)	3	2	2WU	1.05	23	NO	11,628	7,730			215				12	3	15	8			11,628	7,730		
2024CPT.01.06.20271	Currituck	9	SR-1293 / BAXTER ESTATES ROAD	FROM SR 1222 (TULLS CREEK ROAD) (MP 0.00) TO CDS (MP 0.654)	3	2	2WU	0.65	20	NO	6,864	4,290			12										6,864	4,290		
2024CPT.01.06.20271	Currituck	10	SR-1358 / NORTH POINT BOULEVARD	FROM NC 168 (MP 0.00) TO BEGIN 3 LANES (MP 0.11)	5	3	MU	0.11	33	NO	1,056	660			33						2	2			1,056	660		
2024CPT.01.06.20271	Currituck	11	SR-1416 / COINJOCK VILLAGE DRIVE	FROM US 158 (MP 0.00) TO EOM (MP 0.23)	3	2	2WU	0.23	20	NO																		
TOTAL FOR PROJ NO. 2024CPT.01.06.20271								**6.61**			**67,188**	**42,457**	**12**		**276**		**4**	**5**	**12**	**3**	**17**	**10**			**66,799**	**42,214**		
											109,645					**21**				**30**					**109,013**			
2024CPT.01.06.20272	Currituck	12	SR-1238 / CREEKMORE ROAD	FROM SR 1222 (TULLS CREEK ROAD) (MP 0.00) TO DEAD END (MP 0.55)	6	2	2WU	0.55	18	NO	6,547	4,910													6,547	4,910		
2024CPT.01.06.20272	Currituck	13	SR-1343 / CURRITUCK SOUND DRIVE	FROM NC 168 TO SR 1344 (CAROTAUK DRIVE)	6	2	2WU	0.42	20	NO	320	320													320	320		
2024CPT.01.06.20272	Currituck	14	SR-1344 / CAROTAUK DRIVE	FROM SR 1343 (CURRITUCK SOUND DRIVE) (MP 0.00) TO CDS (MP 0.25)	6	2	2WU	0.25	20	NO																		
2024CPT.01.06.20272	Currituck	15	SR-1345 / SOUND SHORE DRIVE	FROM SR 1343 (CURRITUCK SOUND DRIVE) (MP 0.00) TO SR 1344 (CAROTAUK DRIVE) (MP 0.59)	6	2	2WU	0.59	20	NO																		
2024CPT.01.06.20272	Currituck	16	SR-1398 / CYGNET COURT	FROM SR 1345 (SOUND SHORE DR.) TO CDS	6	2	2WU	0.06	20	NO																		
TOTAL FOR PROJ NO. 2024CPT.01.06.20272								**1.87**			**6,867**	**5,230**													**6,867**	**5,230**		
											12,097														**12,097**			
GRAND TOTAL								**21.84**			**220,171**	**149,923**	**696**	**40**	**3,073**	**2**	**4**	**5**	**12**	**12**	**66**	**29**	**1**	**6**	**73,666**	**47,444**	**122,196**	**882**
											370,094					**23**				**114**					**121,110**			

PROJ. REFERENCE NO.	SHEET NO.
2024CPT.01.06.10271 ETC.	TMP-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 — LOW/SOFT 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.

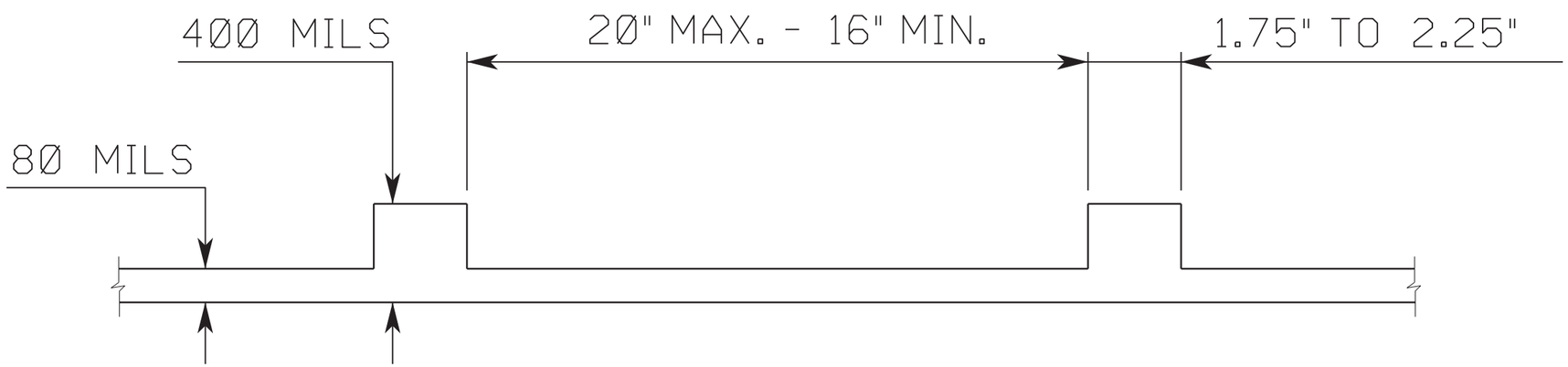
DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

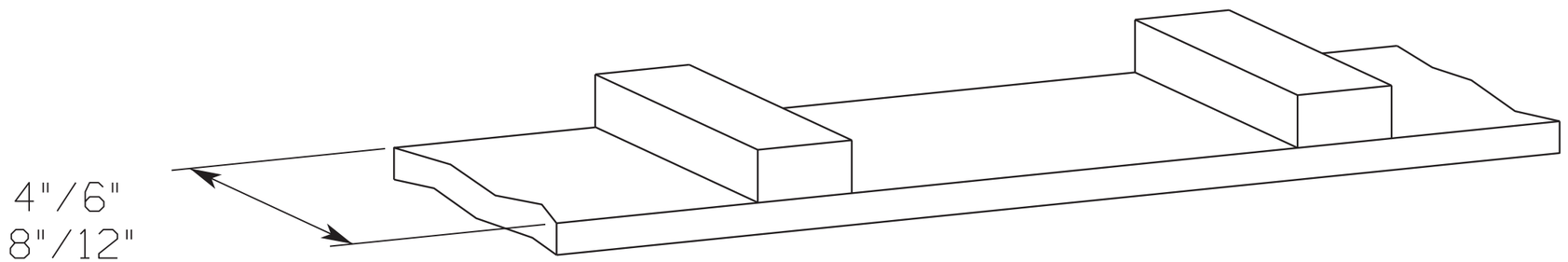
ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN 2-LANE ROADWAY RESURFACING

5/15/2017
SATMUWZTC\Resurfacing\2L2W & AST Resurfacing Details\Resurfacing_AdvWarn_2Ln.dgn
User:kaddis

PROJ. REFERENCE NO.	SHEET NO.
2024CPT.01.06.10271 ETC.	PMP-1

PROFILED MARKING DETAIL





APPROVED: Matthew V. Springer PE DATE: 03/12/2024

SEAL
SEAL 042546
MATTHEW V. SPRINGER

PROFILED
PAVEMENT MARKINGS

SCALE: NONE
DATE:
DWG. BY:
DESIGN BY:
REVIEWED BY:

REVISIONS

CADD FILE

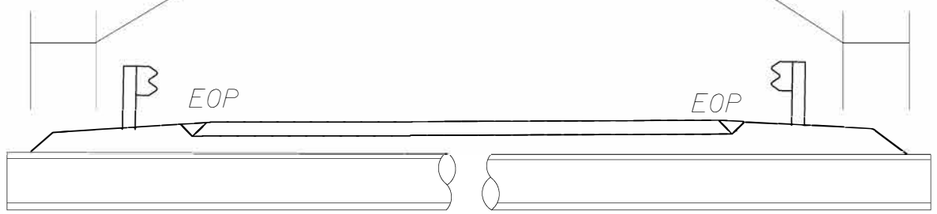
PROJECT REFERENCE NO.	SHEET NO.
2024CPT.01.06.10271	EC-1

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

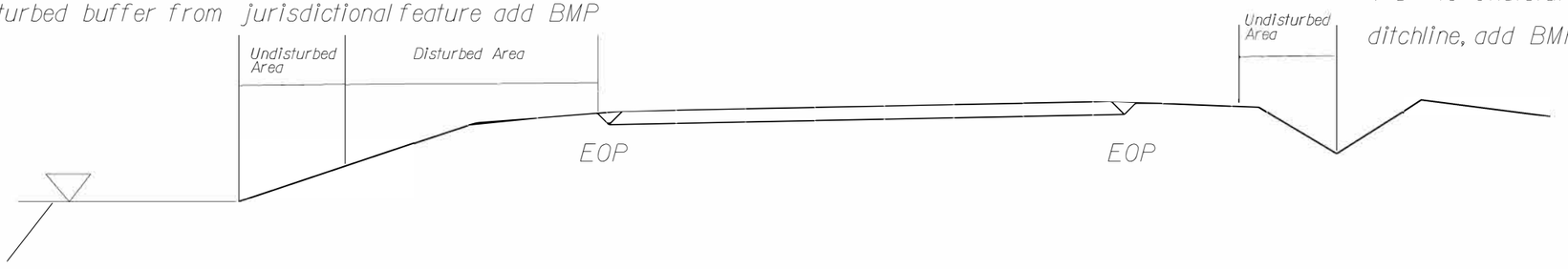
< 5' - 10' Undisturbed buffer add BMP



Pipe/Culvert

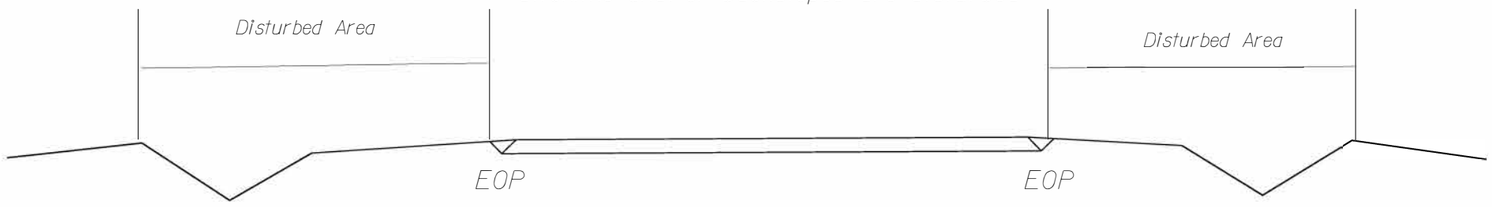
< 5' - 10' Undisturbed buffer from jurisdictional feature add BMP

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

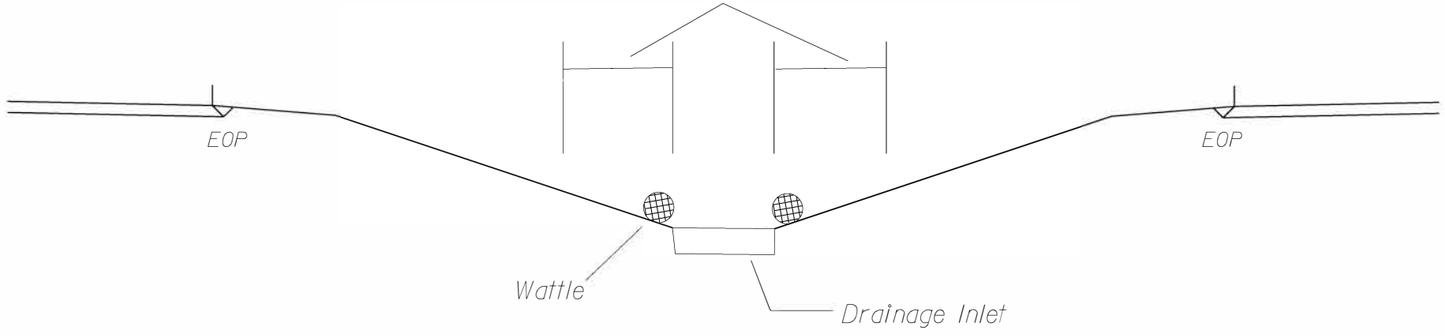


Jurisdictional Feature

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



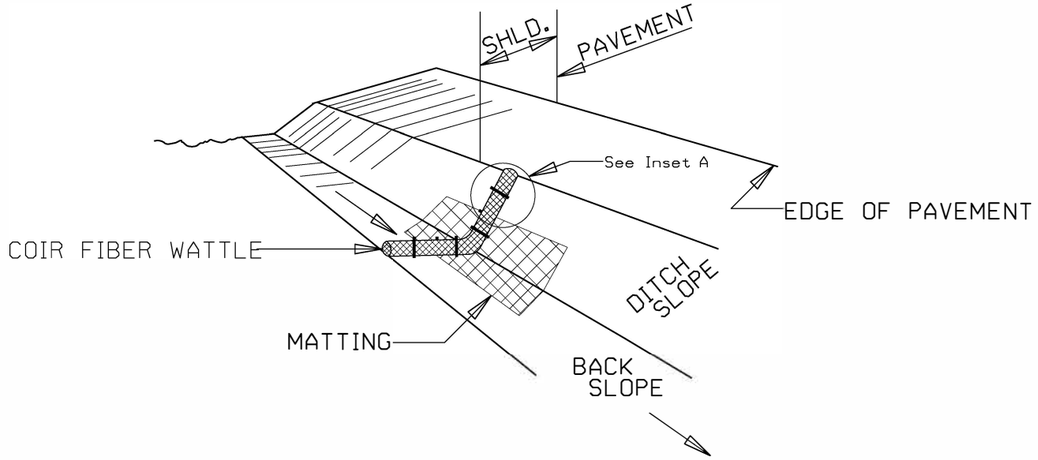
< 5' - 10' Undisturbed buffer from inlet, add wattle



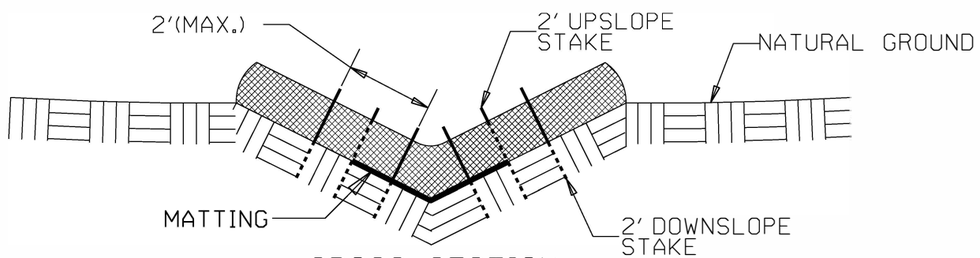
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
2024CPT.01.06.10271	EC-2

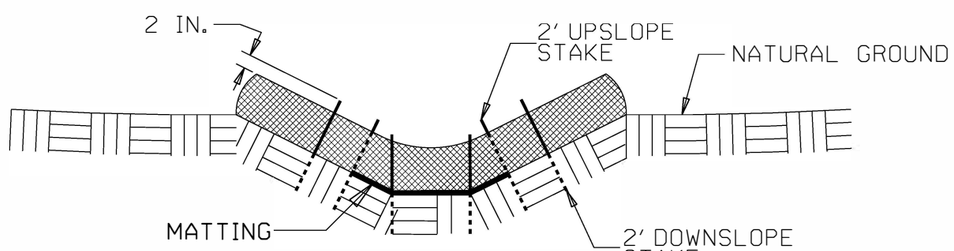
COIR FIBER WATTLE DETAIL



ISOMETRIC VIEW



CROSS SECTION
VEE DITCH



CROSS SECTION
TRAPEZOIDAL DITCH

NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.

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

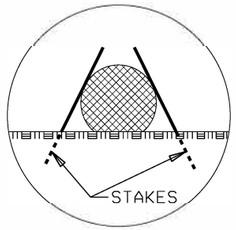
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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

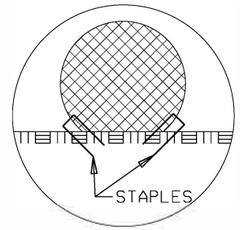
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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

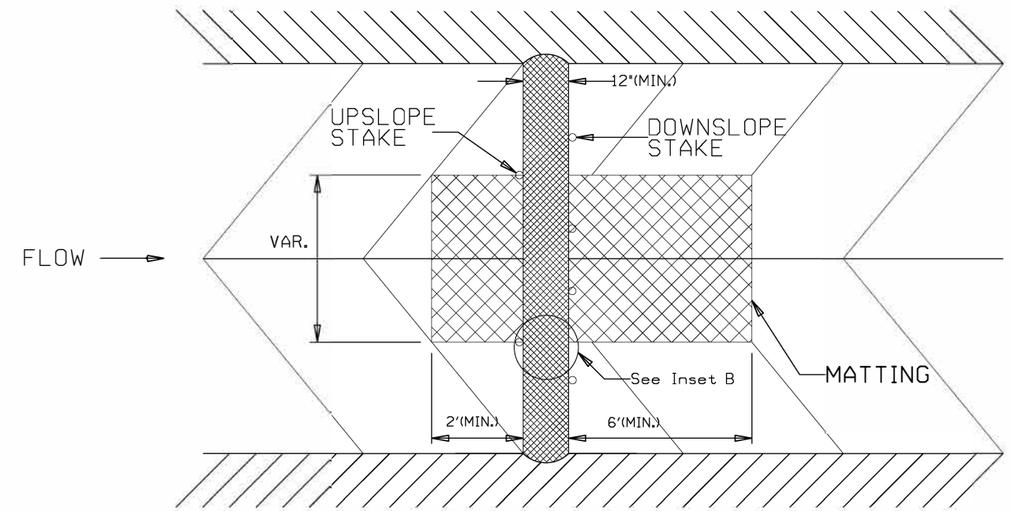
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



INSET A



INSET B



TOP VIEW

PROJECT REFERENCE NO.	SHEET NO.
2024CPT.01.06.10271	EC-3

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.