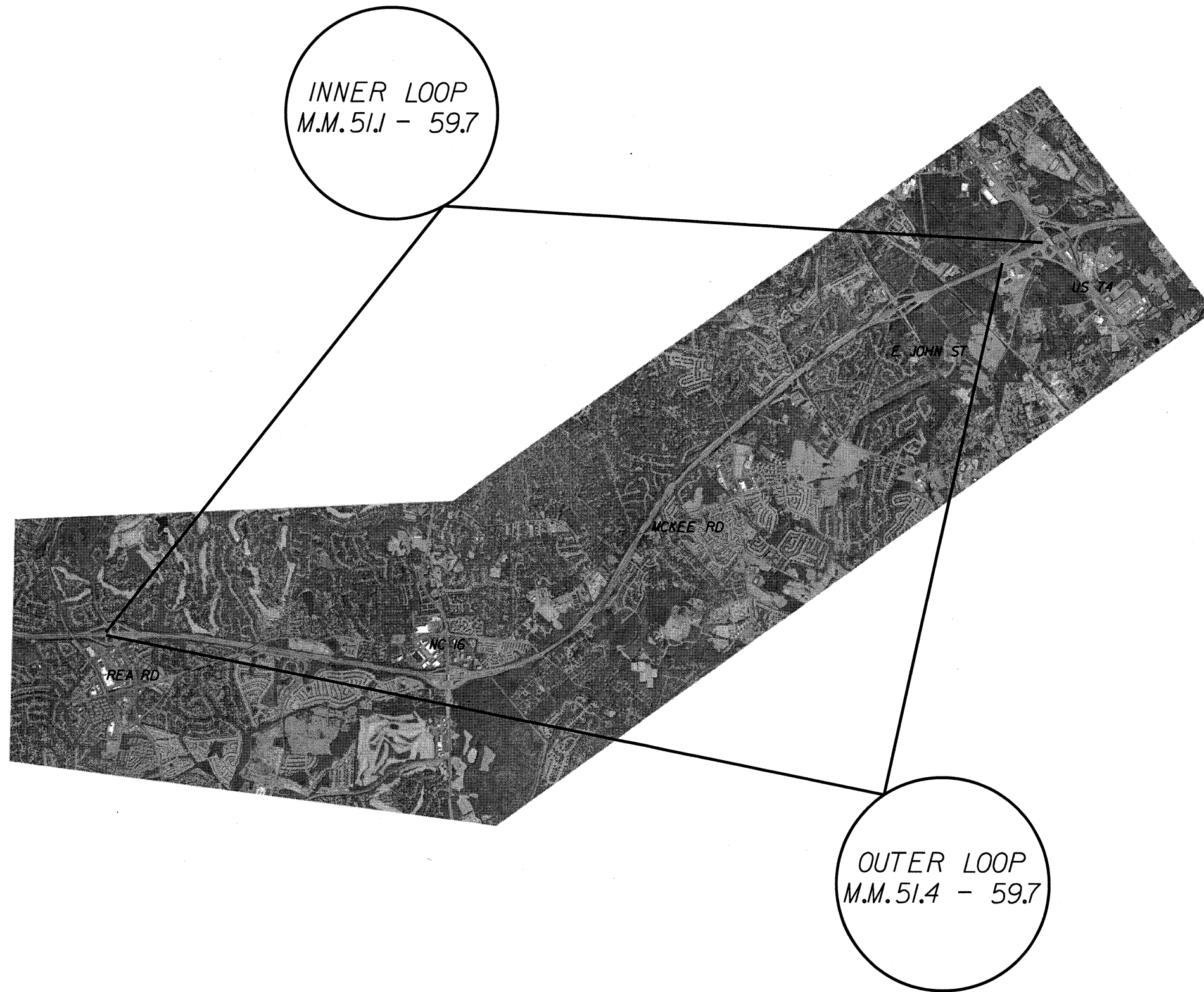

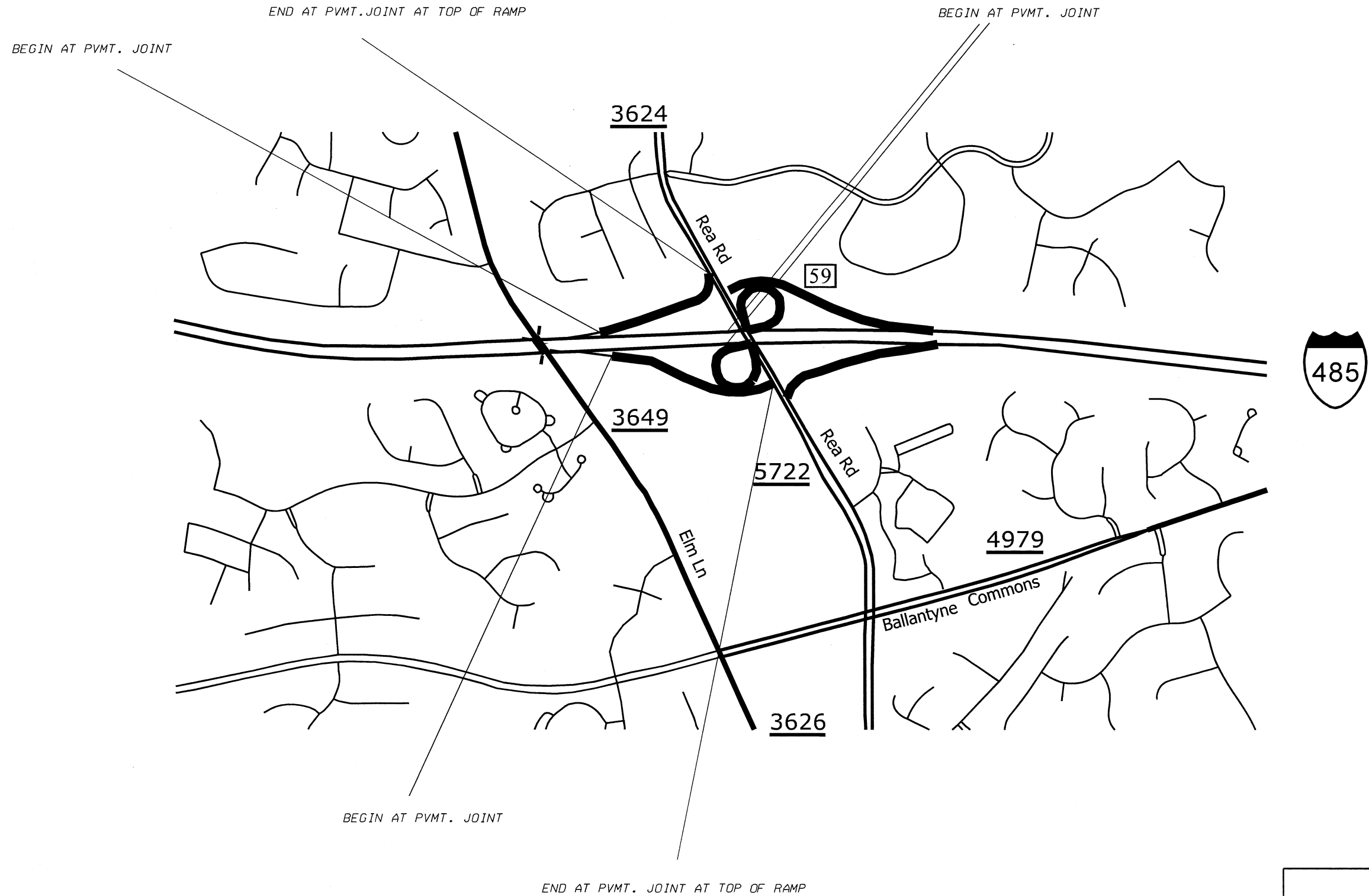



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-538	1	
WBS NO.			



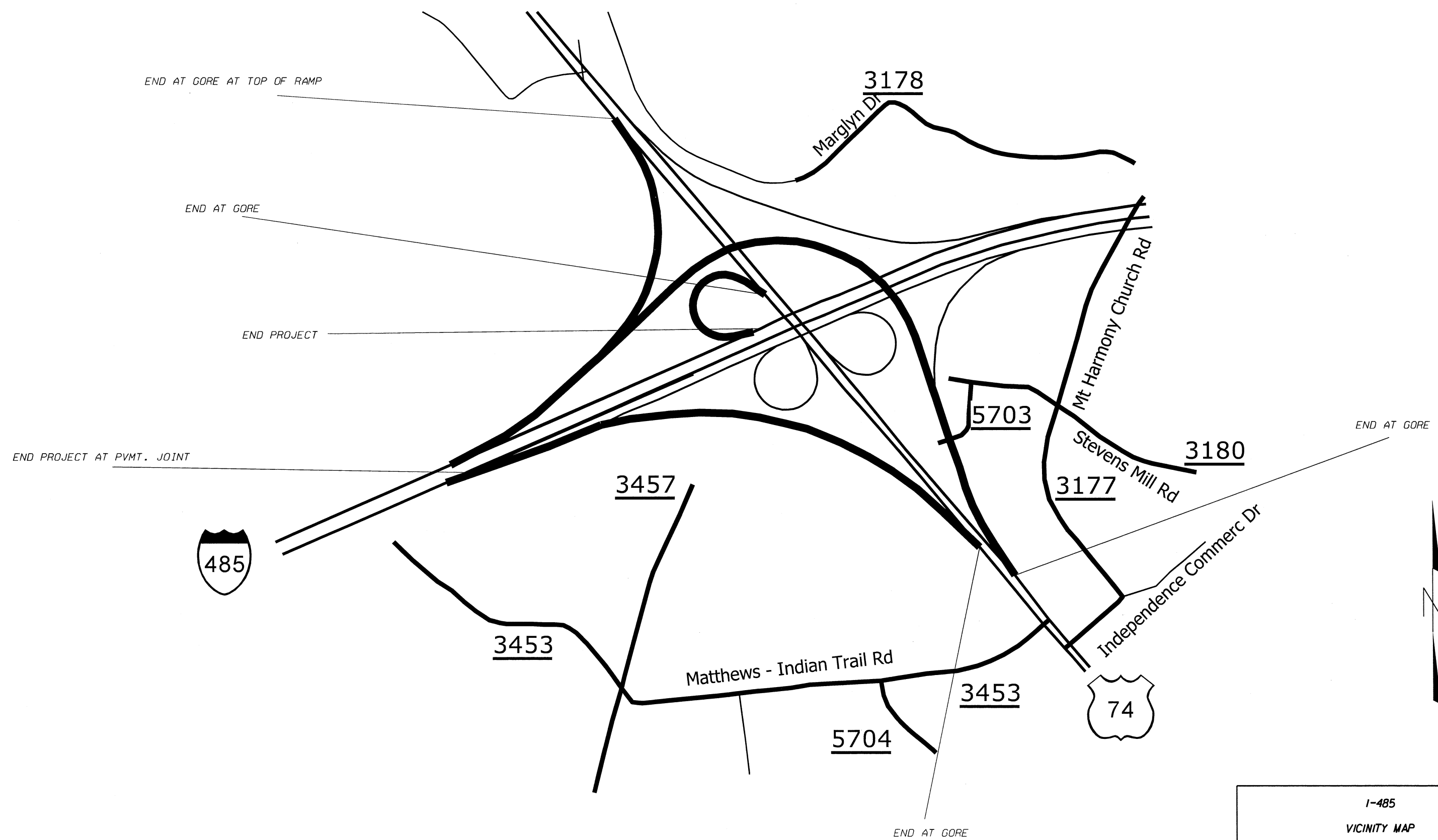
I-485 VICINITY MAP		
SCALE	-NA-	
DATE	11/14	
DWG. BY	WAT	
DESIGN BY	WAT	
APPROVED	BDC	
		REVISIONS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	1-538	2	
WBS NO.			



1-485		
VICINITY MAP		
SCALE	-NA-	
DATE	11/11	
DWG. BY	WAT	
DESIGN BY	WAT	
APPROVED	BDC	
		REVISIONS

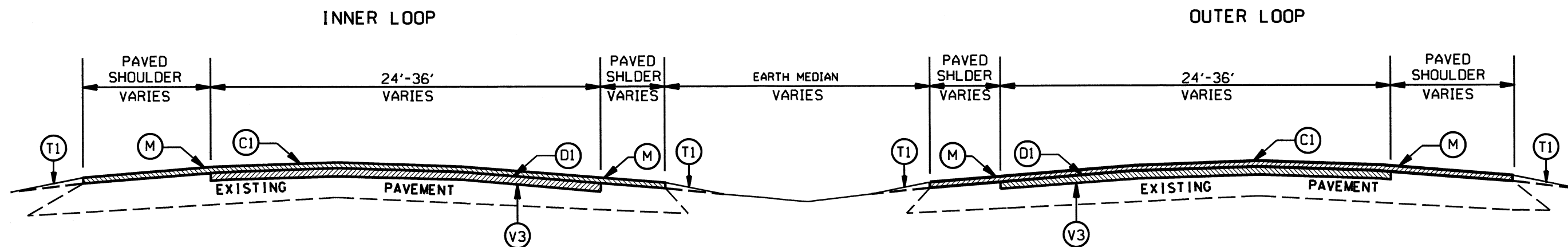
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-538	3	
WBS NO.			



I-485
VICINITY MAP

SCALE	-NA-		REVISIONS
DATE	11/14		
DWG. BY	WAT		
DESIGN BY	WAT		
APPROVED	BDC		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-538	4	
WBS NO.			

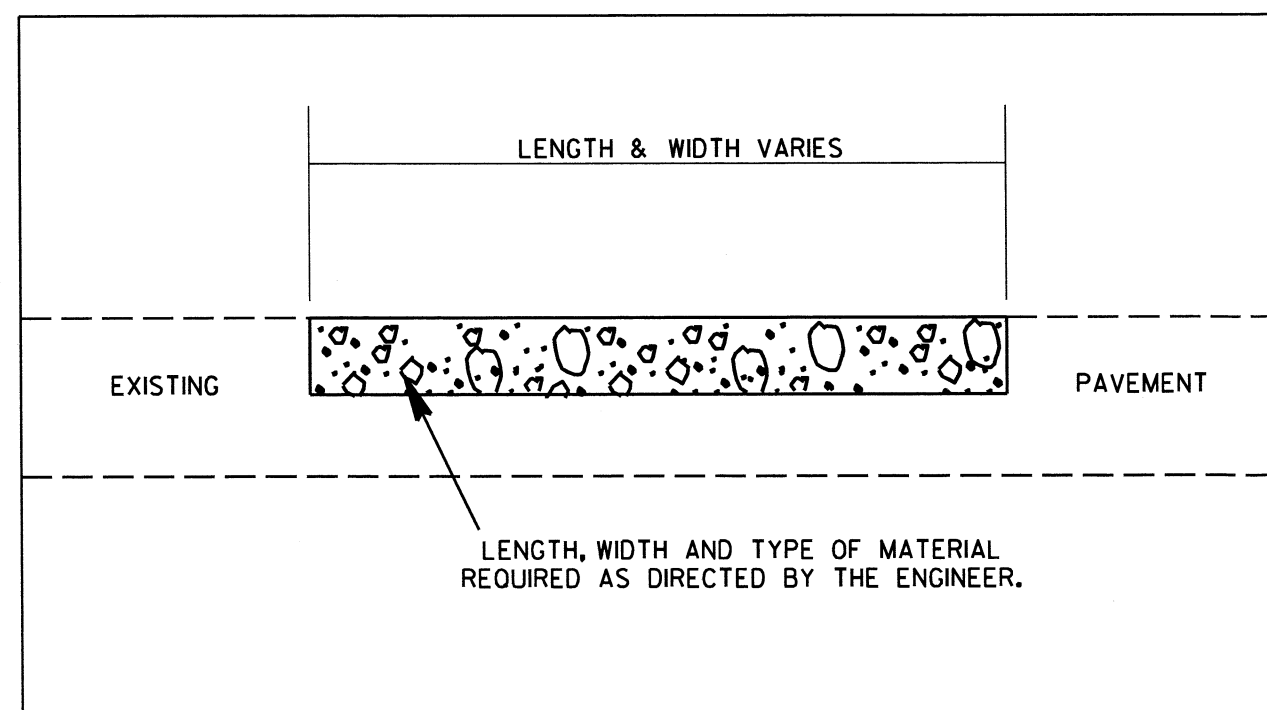


TYPICAL SECTION NO. 1
SR 5772 (REA RD) TO SR 3440 (MCKEE RD)

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0D AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION.
V1	PROFILE MILLING 0" TO 1.5"
V2	MILLING 1.5" DEPTH
V3	MILLING 2.5" DEPTH
V4	MILLING 4.0" DEPTH
M	MILLED RUMBLE STRIPS

ALL PAVEMENT EDGE SLOPES ARE 1:1 UNLESS NOTED OTHERWISE.

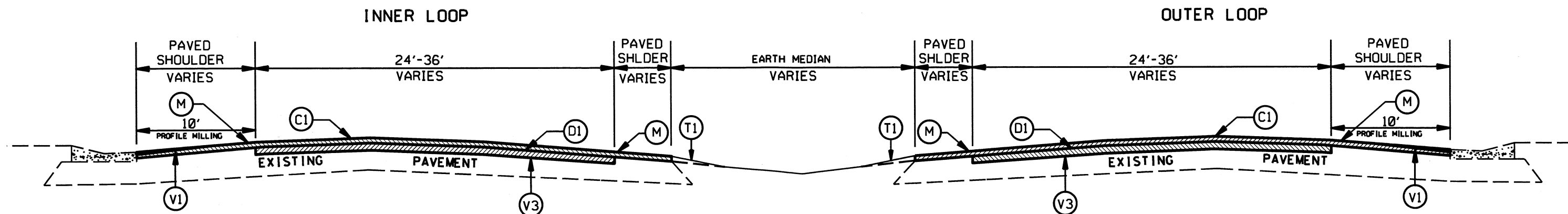
PATCHING DETAIL



I-485 PAVEMENT REHABILITATION

SCALE	-NA-		REVISIONS
DATE	10/14		
DWG. BY	WAT		
DESIGN BY	WAT		
APPROVED	BDC		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	1-538	5	
WBS NO.			



TYPICAL SECTION NO. 2
SR 5772 (REA RD) TO SR 3440 (MCKEE RD)

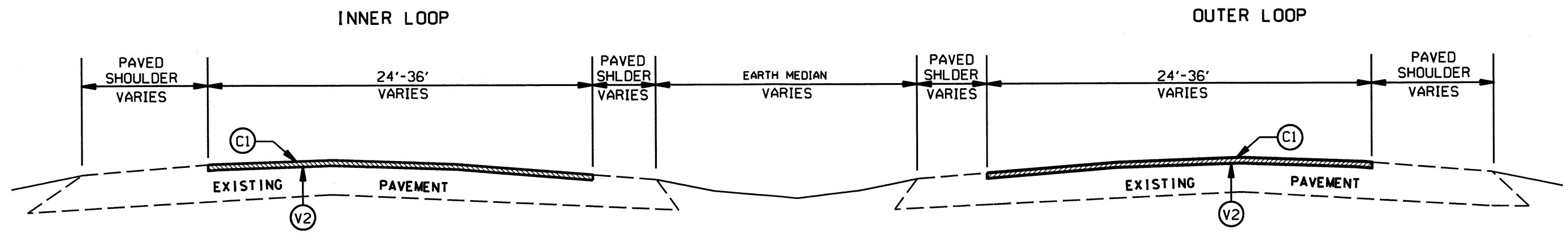
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0D AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION.
V1	PROFILE MILLING 0" TO 1.5"
V2	MILLING 1.5" DEPTH
V3	MILLING 2.5" DEPTH
V4	MILLING 4.0" DEPTH
M	MILLED RUMBLE STRIPS

ALL PAVEMENT EDGE SLOPES ARE 1:1 UNLESS NOTED OTHERWISE.

I-485 PAVEMENT REHABILITATION

SCALE	-NA-		REVISIONS
DATE	10/14		
DWG. BY	WAT		
DESIGN BY	WAT		
APPROVED	BDC		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-538	6	
WBS NO.			




TYPICAL SECTION NO. 3

SR 3440 (MCKEE RD) TO US 74 (E INDEPENDENCE BLVD)
 THE CONTRACTOR SHALL NOT DISTURB THE EXISTING RUMBLE STRIPS ALONG THE SHOULDER OF I-485 IN THIS SECTION

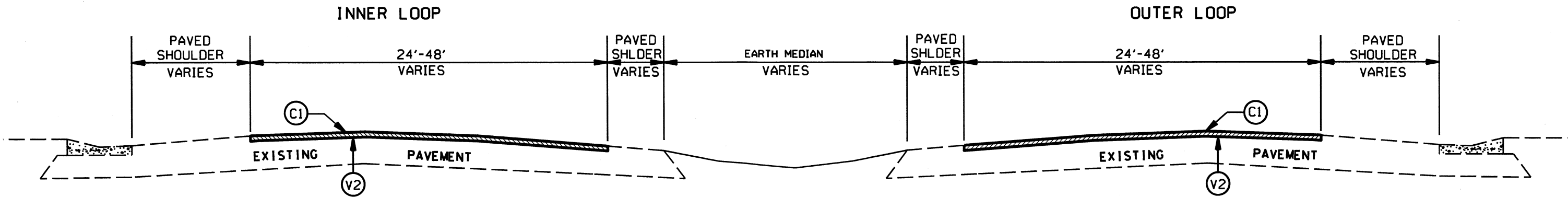
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0D AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION.
V1	PROFILE MILLING 0" TO 1.5"
V2	MILLING 1.5" DEPTH
V3	MILLING 2.5" DEPTH
V4	MILLING 4.0" DEPTH
M	MILLED RUMBLE STRIPS

ALL PAVEMENT EDGE SLOPES ARE 1:1 UNLESS NOTED OTHERWISE.

I-485 PAVEMENT REHABILITATION

SCALE	-NA-		REVISIONS
DATE	KJ/H		
DWG. BY	WAT		
DESIGN BY	WAT		
APPROVED	BDC		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-538	7	
RBS NO.			



TYPICAL SECTION NO. 4

SR 3440 (MCKEE RD) TO US 74 (E INDEPENDENCE BLVD)
 THE CONTRACTOR SHALL NOT DISTURB THE EXISTING RUMBLE STRIPS ALONG THE SHOULDER OF I-485 IN THIS SECTION

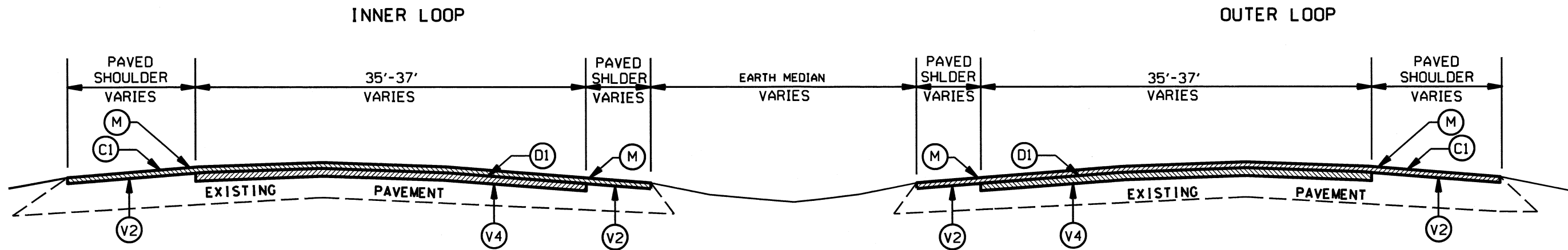
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0D AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION.
V1	PROFILE MILLING 0" TO 1.5"
V2	MILLING 1.5" DEPTH
V3	MILLING 2.5" DEPTH
V4	MILLING 4.0" DEPTH
M	MILLED RUMBLE STRIPS

ALL PAVEMENT EDGE SLOPES ARE 1:1 UNLESS NOTED OTHERWISE.

I-485 PAVEMENT REHABILITATION

SCALE	-NA-		REVISIONS
DATE	10/14		
DWG. BY	WAT		
DESIGN BY	WAT		
APPROVED	BDC		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-538	8	
WBS NO.			




TYPICAL SECTION NO. 5
SR 5772 (REA RD) BRIDGE

TRAVEL LANES: 75' BEFORE AND AFTER THE BRIDGE.
TRANSITION MILLING FROM 2.5" TO 4.0".
PAVED SHOULDERS: 75' BEFORE AND AFTER THE BRIDGE.
TRANSITION MILLING FROM 0" TO 1.5".

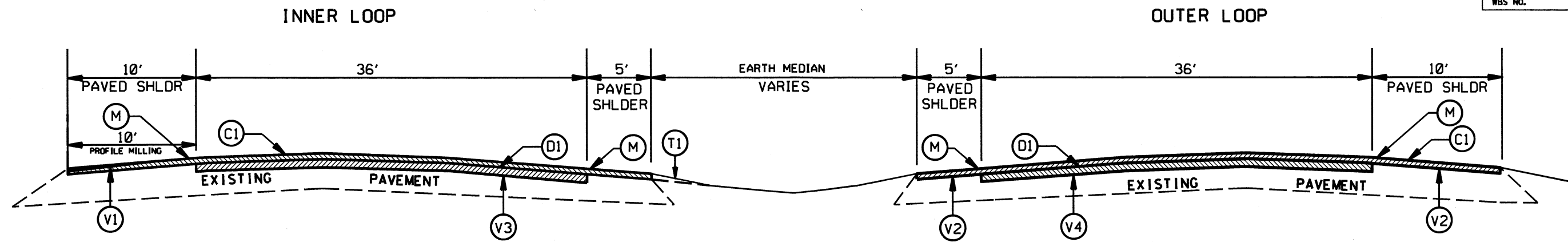
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0D AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION.
V1	PROFILE MILLING 0" TO 1.5"
V2	MILLING 1.5" DEPTH
V3	MILLING 2.5" DEPTH
V4	MILLING 4.0" DEPTH
M	MILLED RUMBLE STRIPS

ALL PAVEMENT EDGE SLOPES ARE 1:1 UNLESS NOTED OTHERWISE.

I-485 PAVEMENT REHABILITATION		
SCALE	-NA-	REVISIONS
DATE	10/14	
DWG. BY	WAT	
DESIGN BY	WAT	
APPROVED	BDC	



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-538	9	
WBS NO.			

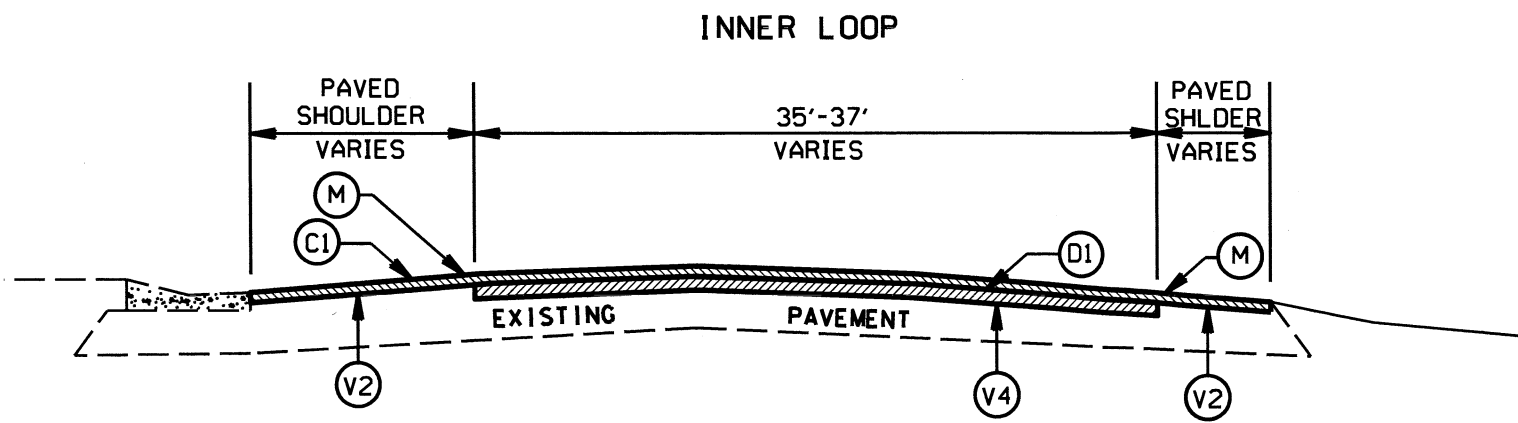


TYPICAL SECTION NO. 7

NC 16 BRIDGE

OUTER LOOP TRAVEL LANES: 75' BEFORE AND AFTER THE BRIDGE. TRANSITION MILLING FROM 2.5" TO 4.0".

OUTER LOOP PAVED SHOULDERS: 75' BEFORE AND AFTER THE BRIDGE. TRANSITION MILLING FROM 0" TO 1.5".



TYPICAL SECTION NO. 6

SIGN 162 @ REA RD OFFRAMP

TRAVEL LANES: 75' BEFORE AND AFTER THE OVERHEAD SIGN. TRANSITION MILLING FROM 2.5" TO 4.0".

PAVED SHOULDERS: 75' BEFORE AND AFTER THE OVERHEAD SIGN. TRANSITION MILLING FROM 0" TO 1.5".

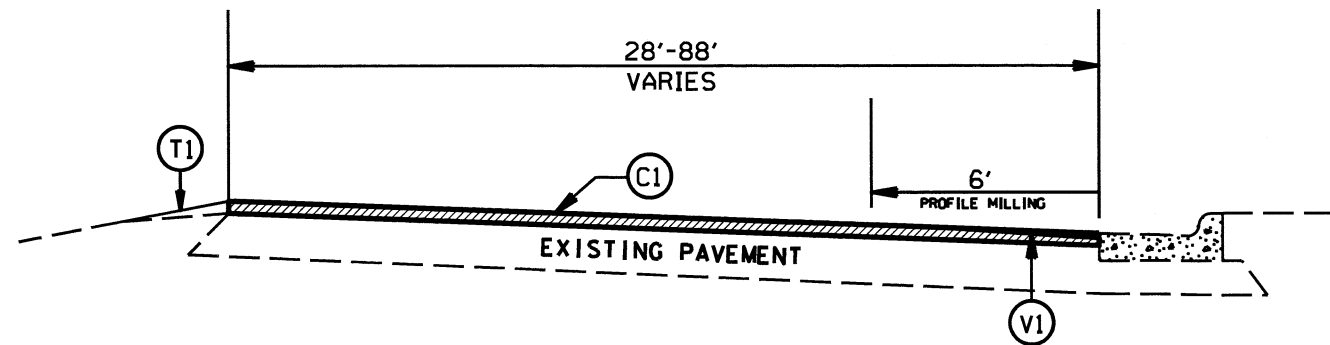
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0D AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION.
V1	PROFILE MILLING 0" TO 1.5"
V2	MILLING 1.5" DEPTH
V3	MILLING 2.5" DEPTH
V4	MILLING 4.0" DEPTH
M	MILLED RUMBLE STRIPS

ALL PAVEMENT EDGE SLOPES ARE 1:1 UNLESS NOTED OTHERWISE.

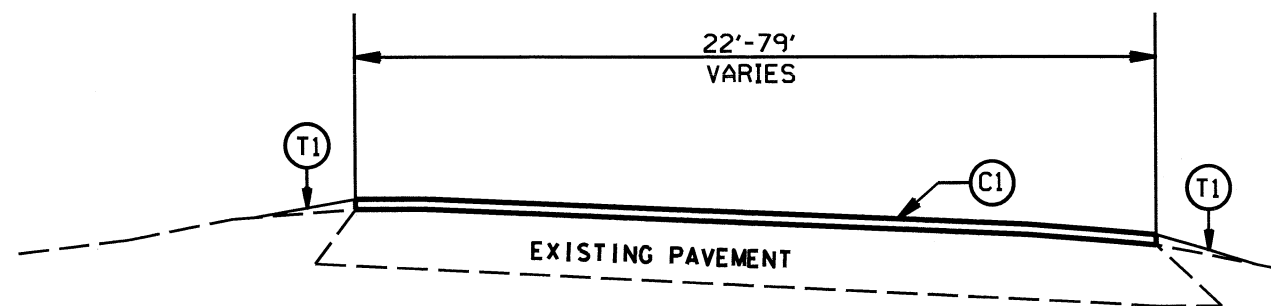
I-485 PAVEMENT REHABILITATION

SCALE	-NA-		REVISIONS
DATE	10/14		
DWG. BY	WAT		
DESIGN BY	WAT		
APPROVED	BDC		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-538	10	
WBS NO.			



TYPICAL SECTION NO. 9
 INNER LOOP REA RD OFFRAMP
 OUTER LOOP REA RD ONRAMP
 INNER LOOP NC 16 OFFRAMP
 OUTER LOOP NC 16 OFFRAMP



TYPICAL SECTION NO. 8
 INNER LOOP REA RD ONRAMP
 INNER LOOP REA RD OFFRAMP
 OUTER LOOP REA RD OFFRAMP
 INNER LOOP NC 16 ONRAMP
 INNER LOOP NC 16 OFFRAMP
 OUTER LOOP NC 16 OFFRAMP
 OUTER LOOP NC 16 ONRAMP

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0D AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION.
V1	PROFILE MILLING 0" TO 1.5"
V2	MILLING 1.5" DEPTH
V3	MILLING 2.5" DEPTH
V4	MILLING 4.0" DEPTH
M	MILLED RUMBLE STRIPS

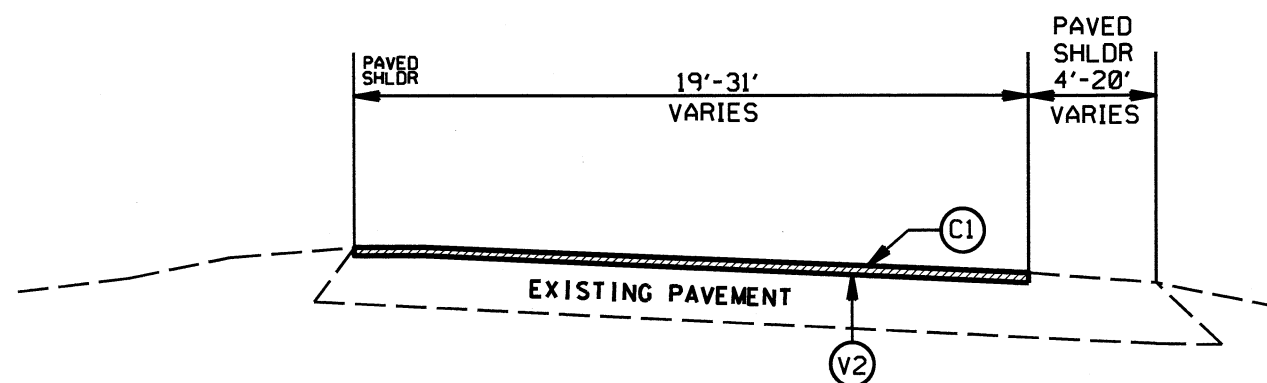
RAMPS SHALL BE PAVED FROM MAINLINE GORE TO STOP BAR OR GORE AT TOP OF RAMP.

ALL PAVEMENT EDGE SLOPES ARE 1:1 UNLESS NOTED OTHERWISE.

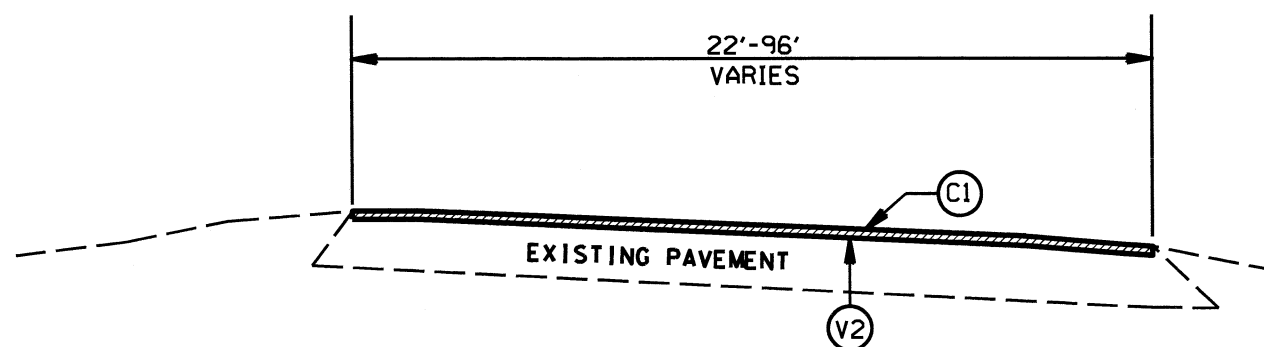
I-485 PAVEMENT REHABILITATION

SCALE	-NA-		REVISIONS
DATE	10/14		
DWG. BY	WAT		
DESIGN BY	WAT		
APPROVED	BDC		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-538	//	
WBS NO.			



TYPICAL SECTION NO. 11
 OUTER LOOP E JOHN ST OFFRAMP
 INNER LOOP US 74 COLLECTOR-DISTRIBUTOR
 OUTER LOOP US 74 OFFRAMP




TYPICAL SECTION NO. 10
 INNER LOOP E JOHN ST ONRAMP
 INNER LOOP E JOHN ST OFFRAMP
 OUTER LOOP E JOHN ST OFFRAMP
 OUTER LOOP E JOHN ST ONRAMP
 INNER LOOP US 74 ONRAMP
 INNER LOOP US 74 COLLECTOR-DISTRIBUTOR
 OUTER LOOP US 74 OFFRAMP

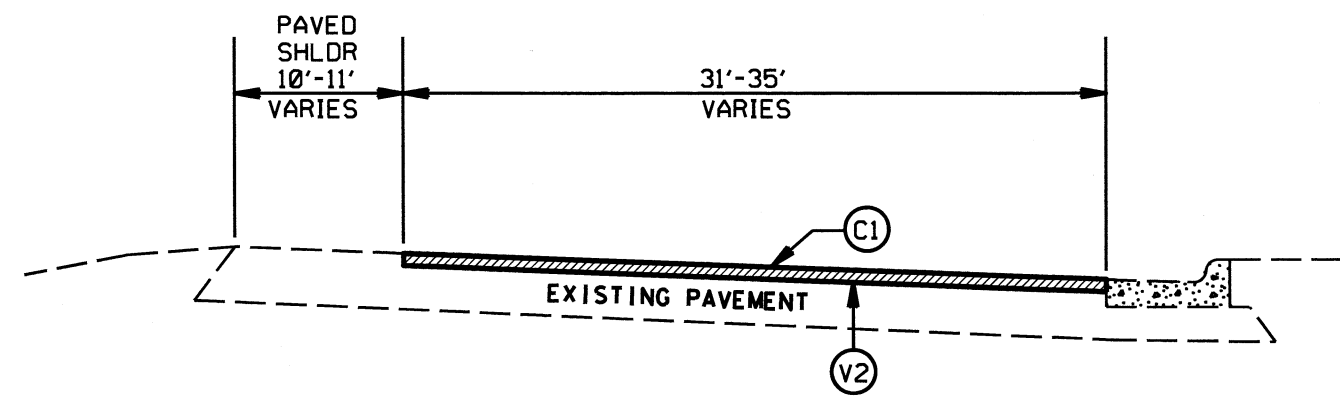
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0D AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION.
V1	PROFILE MILLING 0" TO 1.5"
V2	MILLING 1.5" DEPTH
V3	MILLING 2.5" DEPTH
V4	MILLING 4.0" DEPTH
M	MILLED RUMBLE STRIPS

RAMPS SHALL BE PAVED FROM MAINLINE GORE TO STOP BAR OR GORE AT TOP OF RAMP.

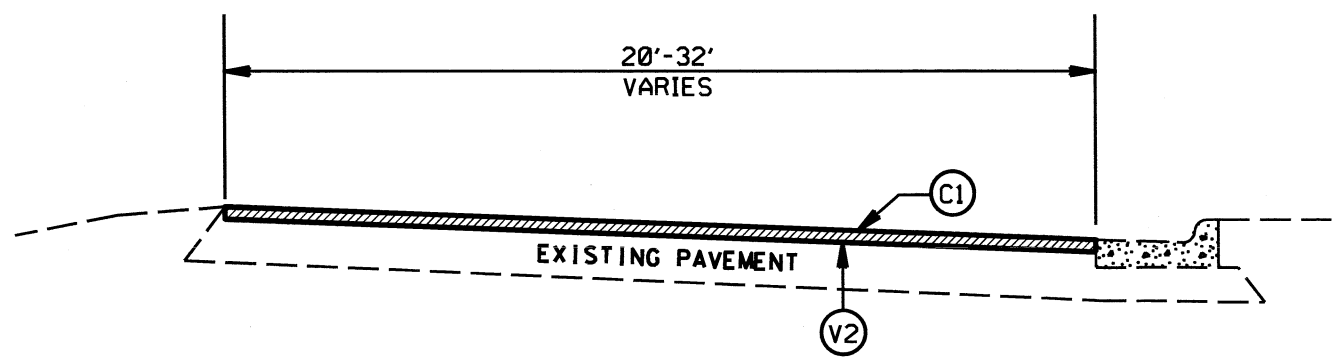
ALL PAVEMENT EDGE SLOPES ARE 1:1 UNLESS NOTED OTHERWISE.

I-485 PAVEMENT REHABILITATION		
SCALE	-NA-	
DATE	10/11	
DWG. BY	WAT	
DESIGN BY	WAT	
APPROVED	BDC	
		REVISIONS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-538	12	
WBS NO.			



TYPICAL SECTION NO. 13
INNER LOOP US 74 COLLECTOR DISTRIBUTOR



TYPICAL SECTION NO. 12
INNER LOOP REA RD ONRAMP LOOP
OUTER LOOP REA RD ONRAMP LOOP
INNER LOOP NC 16 ONRAMP LOOP
OUTER LOOP NC 16 ONRAMP LOOP
INNER LOOP US 74 OFFRAMP LOOP

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0D AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION.
V1	PROFILE MILLING 0" TO 1.5"
V2	MILLING 1.5" DEPTH
V3	MILLING 2.5" DEPTH
V4	MILLING 4.0" DEPTH
M	MILLED RUMBLE STRIPS

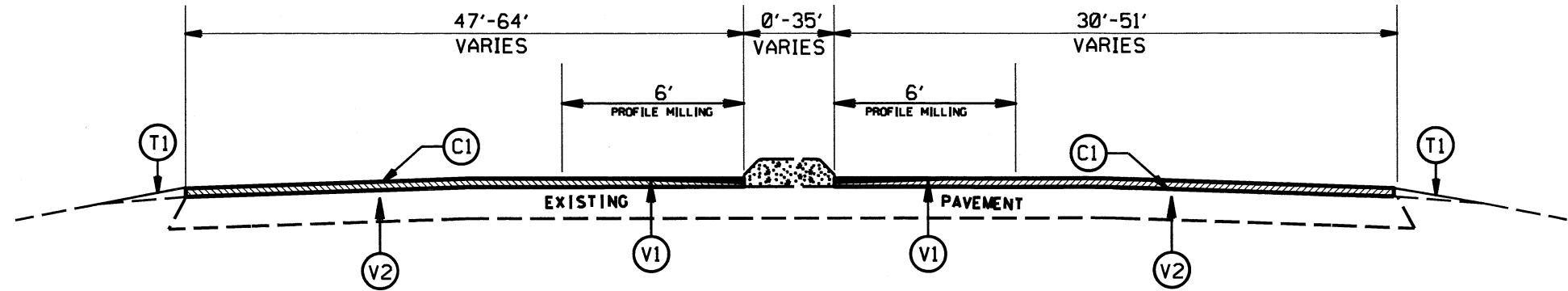
RAMPS SHALL BE PAVED FROM MAINLINE GORE TO STOP BAR OR GORE AT TOP OF RAMP.

ALL PAVEMENT EDGE SLOPES ARE 1:1 UNLESS NOTED OTHERWISE.

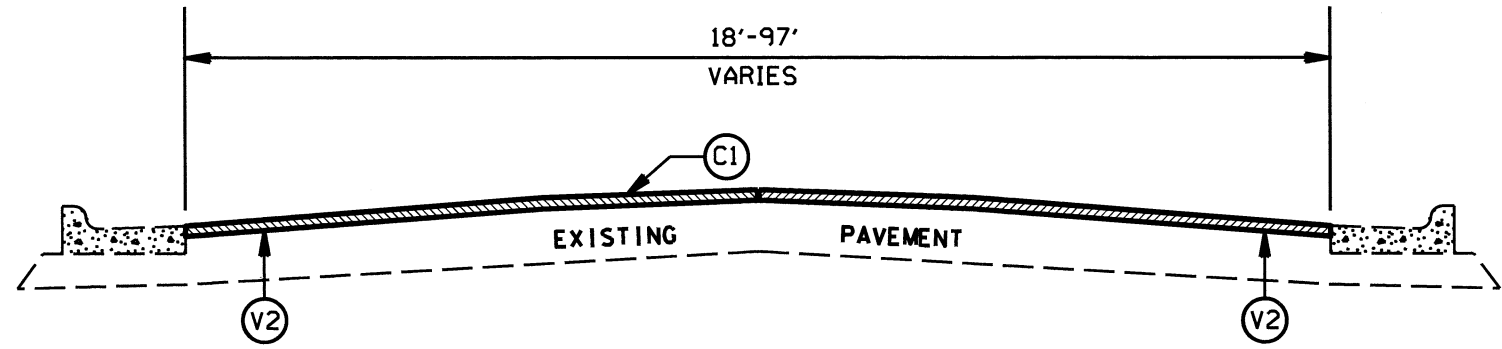
I-485 PAVEMENT REHABILITATION

SCALE	-NA-		REVISIONS
DATE	10/11		
DWG. BY	WAT		
DESIGN BY	WAT		
APPROVED	BDC		

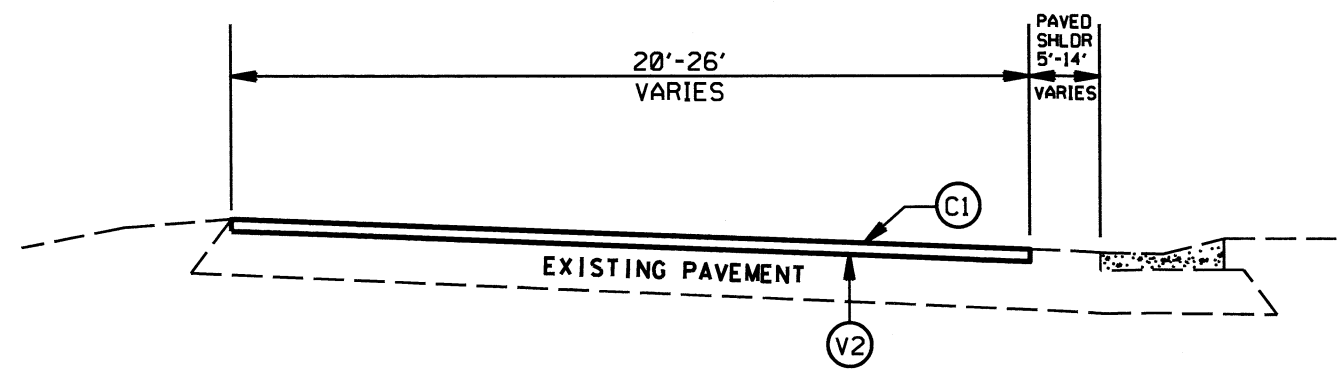
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-538	13	
WBS NO.			



TYPICAL SECTION NO. 16
OUTER LOOP REA RD OFFRAMP



TYPICAL SECTION NO. 15
INNER LOOP NC 16 ONRAMP




TYPICAL SECTION NO. 14
INNER LOOP E JOHN ST ONRAMP
OUTER LOOP E JOHN ST OFFRAMP
OUTER LOOP E JOHN ST ONRAMP
OUTER LOOP US 74 OFFRAMP

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0D AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION.
V1	PROFILE MILLING 0" TO 1.5"
V2	MILLING 1.5" DEPTH
V3	MILLING 2.5" DEPTH
V4	MILLING 4.0" DEPTH
M	MILLED RUMBLE STRIPS

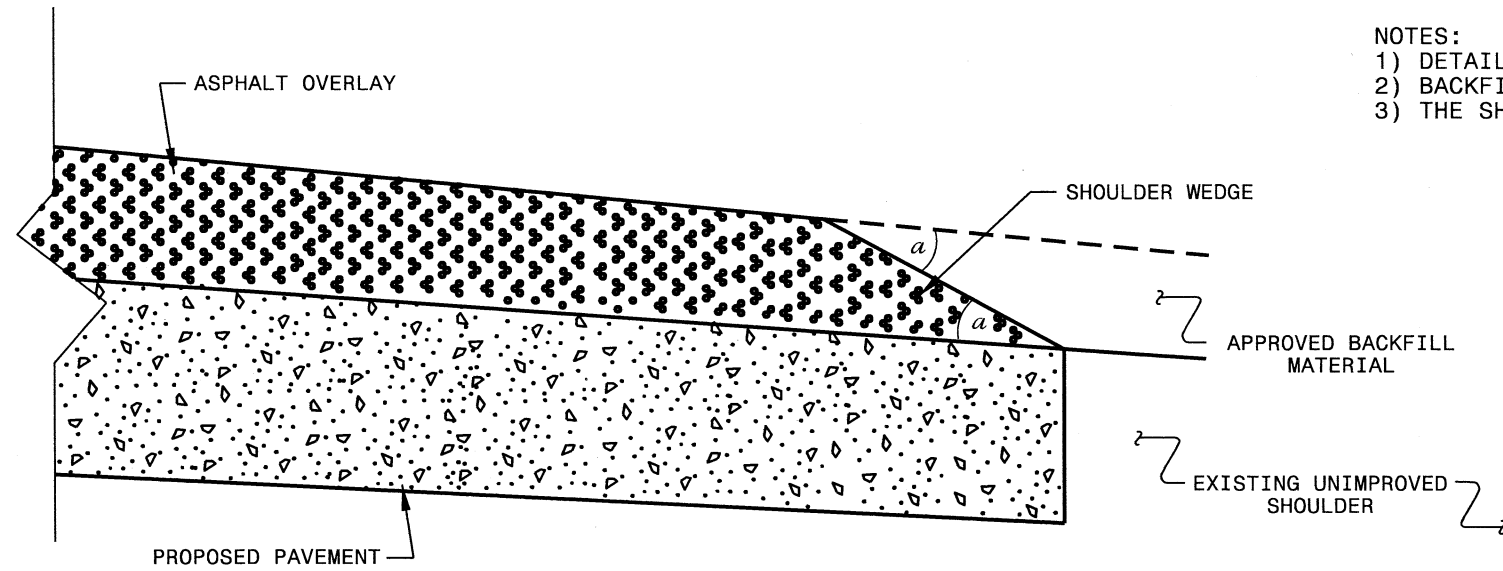
RAMPS SHALL BE PAVED FROM MAINLINE GORE TO STOP BAR OR GORE AT TOP OF RAMP.

ALL PAVEMENT EDGE SLOPES ARE 1:1 UNLESS NOTED OTHERWISE.

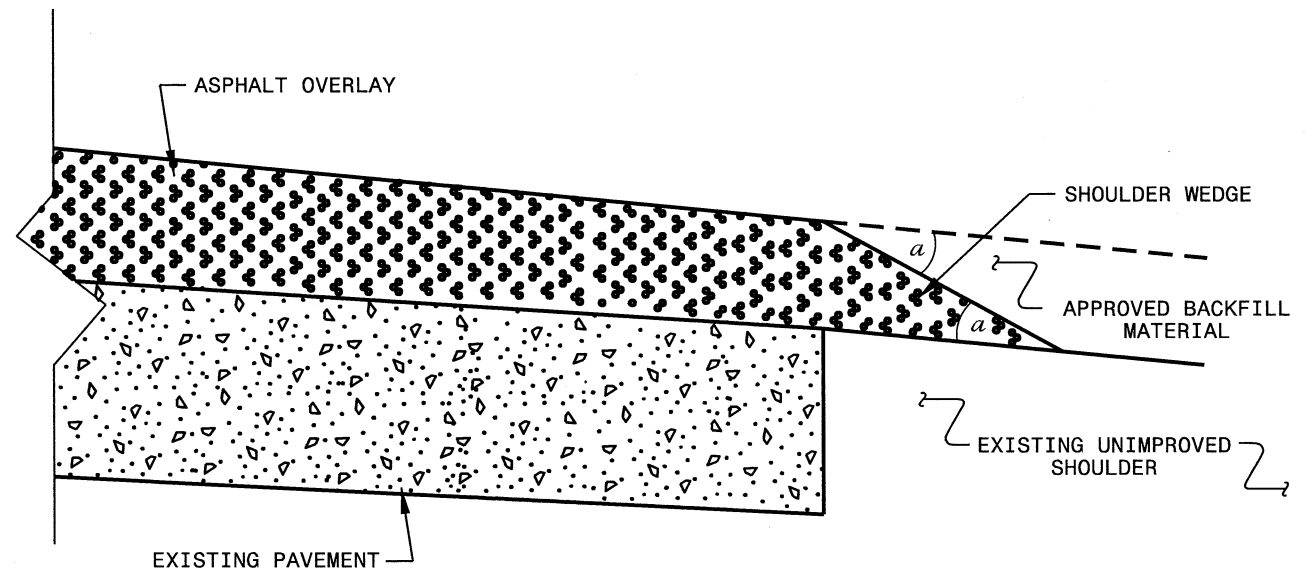
I-485 PAVEMENT REHABILITATION

SCALE	-NA-		REVISIONS
DATE	10/14		
DWG. BY	WAT		
DESIGN BY	WAT		
APPROVED	BDC		

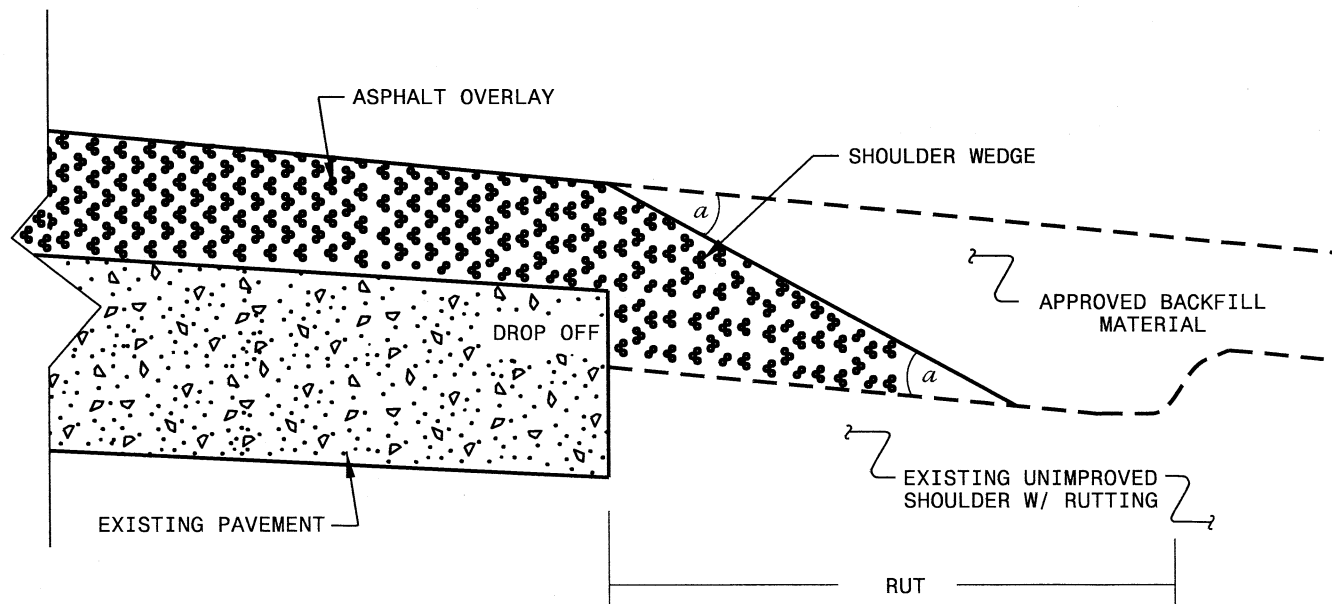
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



SHOULDER WEDGE DETAIL
 (Resurfacing Projects w/ Widening or
 with Existing Paved Shoulder having no dropoffs)



SHOULDER WEDGE DETAIL
 (Resurfacing Projects w/ NO Widening)



SHOULDER WEDGE DETAIL
 (Resurfacing Adjacent to
 Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°

CONTRACT STANDARDS AND DEVELOPMENT UNIT			
Office 919-707-6950		FAX 919-250-4119	
SHOULDER WEDGE DETAILS			
ORIGINAL BY: T.SPELL	DATE: 7-19-11		
MODIFIED BY:	DATE: 10/16/12		
CHECKED BY:	DATE:		
FILE SPEC.: s:\usr\details\stand\shoulderwedgedetail.dgn			

 SYSTEMS

PROJECT NO.	SHEET NO.	TOTAL NO.
I-5318	15	

SUMMARY OF QUANTITIES

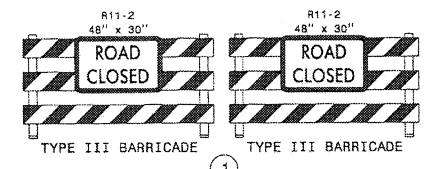
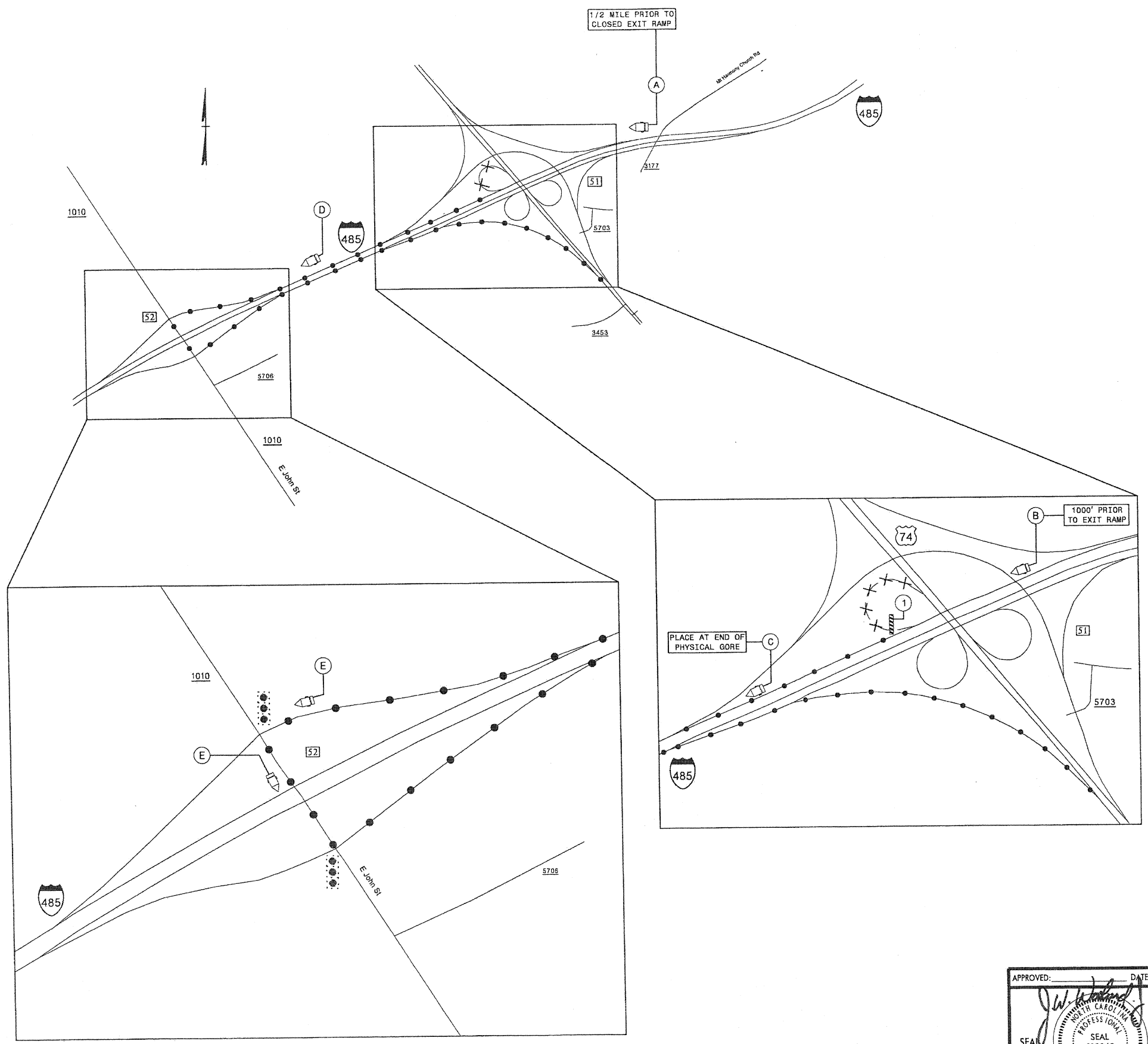
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	BORROW CY	SHOULDER RECONSTRUCTION SMI	4" MILLING SY	2.5" MILLING SY	1 1/2" MILLING SY	0" TO 1.5" MILLING SY	2.5" TO 4" MILLING SY	INCIDENTAL MILLING SY	INTER-MEDIATE COURSE, I19.00 TONS	SURFACE COURSE, S9.5D TON	ASPHALT BINDER FOR PLANT MIX TONS	POLYMER MODIFIED ASPHALT BINDER FOR PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	MILLED RUMBLE STRIPS LF	PORTABLE LIGHTING LS	TEMPORARY SILT FENCE LF	STONE FOR EROSION CONTROL, CLASS B TN	SEDIMENT CONTROL STONE TN	WATTLE LF	POLYACRYLAMIDE (PAM) LB					
I-5318	Mecklenburg	1	I-485	FROM REA RD (SR-5722) TO E INDEPENDENCE BLVD (US 74)		4		Yes	NO	8.7	80	1,419	20.00	1,457	152,777	193,175	7,628	3,209	2,447	22,436	40,254	1,010	2,294	2,000	93,374	1.00	1,917	256	128	384	12					
TOTAL FOR MAP NO. 1										8.7		1,419	20.00	1,457	152,777	193,175	7,628	3,209	2,447	22,436	40,254	1,010	2,294	2,000	93,374	1.00	1,917	256	128	384	12					
TOTAL FOR PROJ NO. 47038.3.FS1										8.7		1,419	20.00	1,457	152,777	193,175	7,628	3,209	2,447	22,436	40,254	1,010	2,294	2,000	93,374	1.00	1,917	256	128	384	12					
GRAND TOTAL										8.7		1,419	20.00	1,457	152,777	193,175	7,628	3,209	2,447	22,436	40,254	1,010	2,294	2,000	93,374	1.00	1,917	256	128	384	12					

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E	4510000000-N	4457000000-N	4685000000-E		4686000000-E	4688000000-E		4690000000-E	4695000000-E	4700000000-E	4702000000-E	4710000000-E	4721000000-E
										WORK ZONE ADVANCE/GENERAL WARNING SIGNING SF	LAW ENFORCEMENT HR	TEMP. TRAFFIC CONTROL LS	4" X 90 M WHITE THERMO LF	4" X 90 M YELLOW THERMO LF	4" X 120 M WHITE THERMO LF	6" X 90 M WHITE THERMO LF	6" X 90 M YELLOW THERMO LF	6" X 120 M WHITE THERMO LF	8" X 90 M WHITE THERMO LF	12" X 90 M WHITE THERMO LF	12" X 120 M WHITE THERMO LF	24" X 120 M WHITE THERMO LF	THERMO MSG ONLY 120 M EA
I-5318	Mecklenburg	1	I-485	FROM REA RD (SR-5722) TO E INDEPENDENCE BLVD (US 74)		4		8.7	80	510.0	40	1	23,623	25,980	5,178	87,197	87,237	23,532	1,999	9,220	1,496	314	20
TOTAL FOR MAP NO. 1										510	40	1	23,623	25,980	5,178	87,197	87,237	23,532	1,999	9,220	1,496	314	20
TOTAL FOR PROJ NO. 47038.3.FS1										510	40	1	23,623	25,980	5,178	87,197	87,237	23,532	1,999	9,220	1,496	314	20
GRAND TOTAL										510	40	1	23,623	25,980	5,178	87,197	87,237	23,532	1,999	9,220	1,496	314	20

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	LENGTH	WIDTH	4725000000-E					4810000000-E		4820000000-E	4835000000-E	4840000000-N	4845000000-N					4905000000-N
										THERMO LT ARROW 90 M EA	THERMO RT ARROW 90 M EA	THERMO STR & RT ARROW 90 M EA	THERMO STR & LT ARROW 90 M EA	MERGE ARROW EA	4" WHITE PAINT LF	4" YELLOW PAINT LF	8" WHITE PAINT LF	24" WHITE PAINT LF	PAINT MSG ONLY EA	PAINT LT ARROW EA	PAINT RT ARROW EA	PAINT STR & RT ARROW EA	PAINT STR & LT ARROW EA	PAINT MERGE ARROW EA	SNOW PLOWABLE MARKERS EA
I-5318	Mecklenburg	1	I-485	FROM REA RD (SR-5722) TO E INDEPENDENCE BLVD (US 74)		4		8.7	80	21	26	4	4	32	139,530	113,217	12,715	314	20	21	26	4	4	32	2,119
TOTAL FOR MAP NO. 1										21	26	4	4	32	139,530	113,217	12,715	314	20	21	26	4	4	32	2,119
TOTAL FOR PROJ NO. 47038.3.FS1										21	26	4	4	32	139,530	113,217	12,715	314	20	21	26	4	4	32	2,119
GRAND TOTAL										21	26	4	4	32	139,530	113,217	12,715	314	20	21	26	4	4	32	2,119

10/1/2014
 S:\TMU\WZTC\Resurfacing\2014Resurfacing\2014Western\2014_Div\0\203501\I-5318_47038.3\F51_Mecklenburg_I-485.mxd
 User: shosson



MESSAGE NO. 1	MESSAGE NO. 2
EXIT 51B CLOSED AHEAD	DETOUR AHEAD
CHANGEABLE MESSAGE SIGN	
(A)	

MESSAGE NO. 1	MESSAGE NO. 2
EXIT 51B US 74 E CLOSED	DETOUR TO EXIT 52
CHANGEABLE MESSAGE SIGN	
(B)	

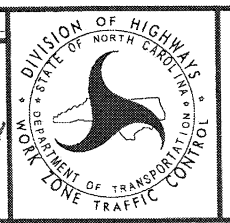
MESSAGE NO. 1	MESSAGE NO. 2
DETOUR US 74 E 1/2 MILE	USE EXIT 52 1/2 MILE
CHANGEABLE MESSAGE SIGN	
(C)	

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR US 74 EAST	EXIT 52 NEXT RIGHT
CHANGEABLE MESSAGE SIGN	
(D)	

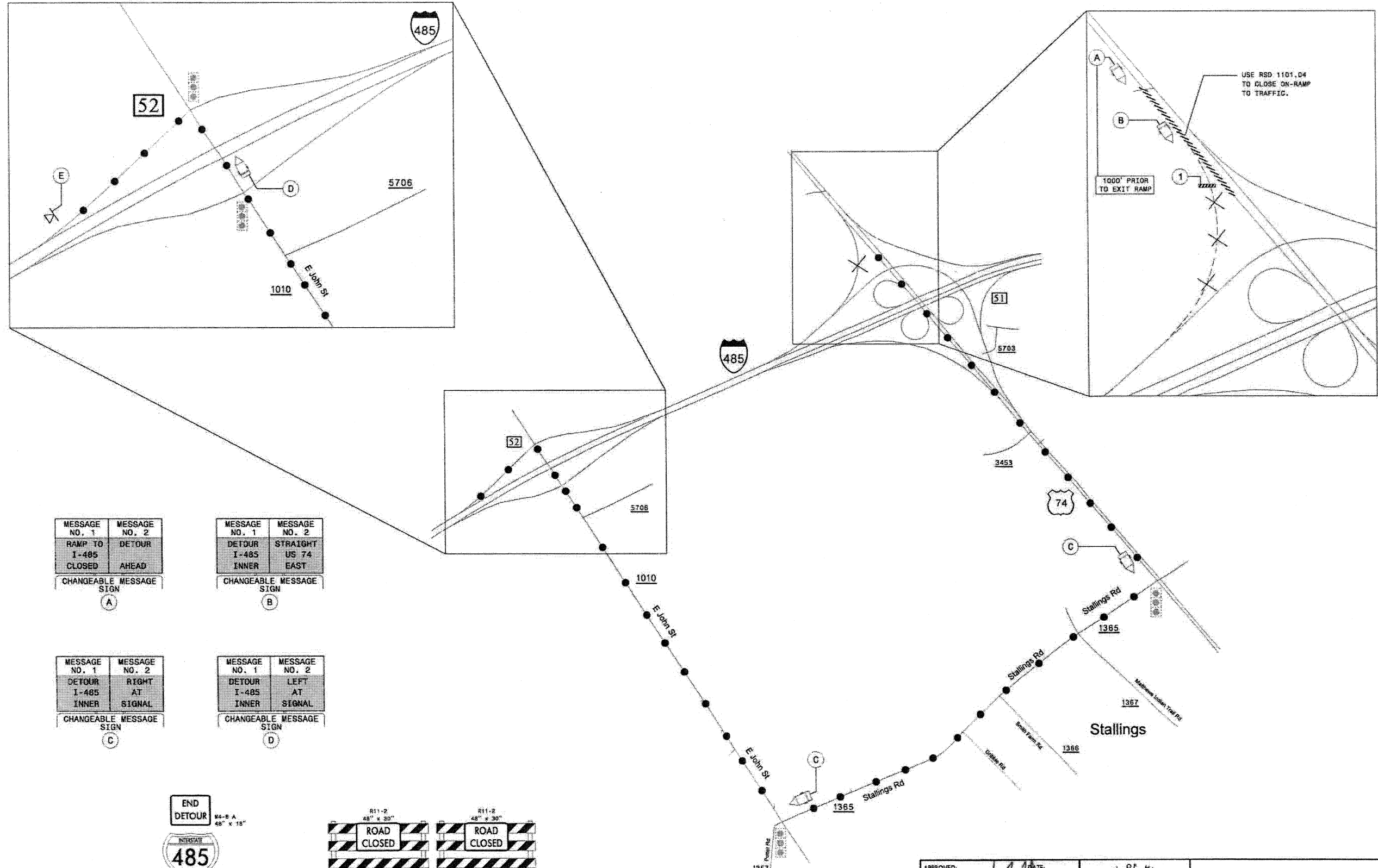
MESSAGE NO. 1	MESSAGE NO. 2
DETOUR US 74 EAST	LEFT AT SIGNAL
CHANGEABLE MESSAGE SIGN	
(E)	

APPROVED: _____ DATE: 10/16/14

SEAL:



LOOP CLOSURE AT EXIT 51B
 FROM I-485 SOUTHBOUND
 (INNER LOOP)
 TO US 74 EASTBOUND



MESSAGE NO. 1	MESSAGE NO. 2
RAMP TO I-485 CLOSED	DETOUR AHEAD

CHANGEABLE MESSAGE SIGN
A

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR I-485 INNER	STRAIGHT US 74 EAST

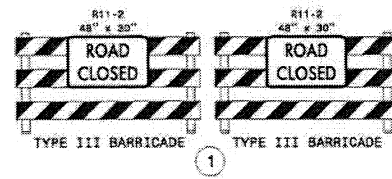
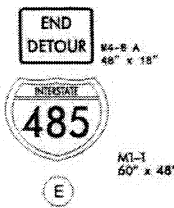
CHANGEABLE MESSAGE SIGN
B

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR I-485 INNER	RIGHT AT SIGNAL

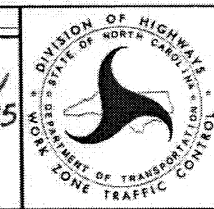
CHANGEABLE MESSAGE SIGN
C

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR I-485 INNER	LEFT AT SIGNAL

CHANGEABLE MESSAGE SIGN
D



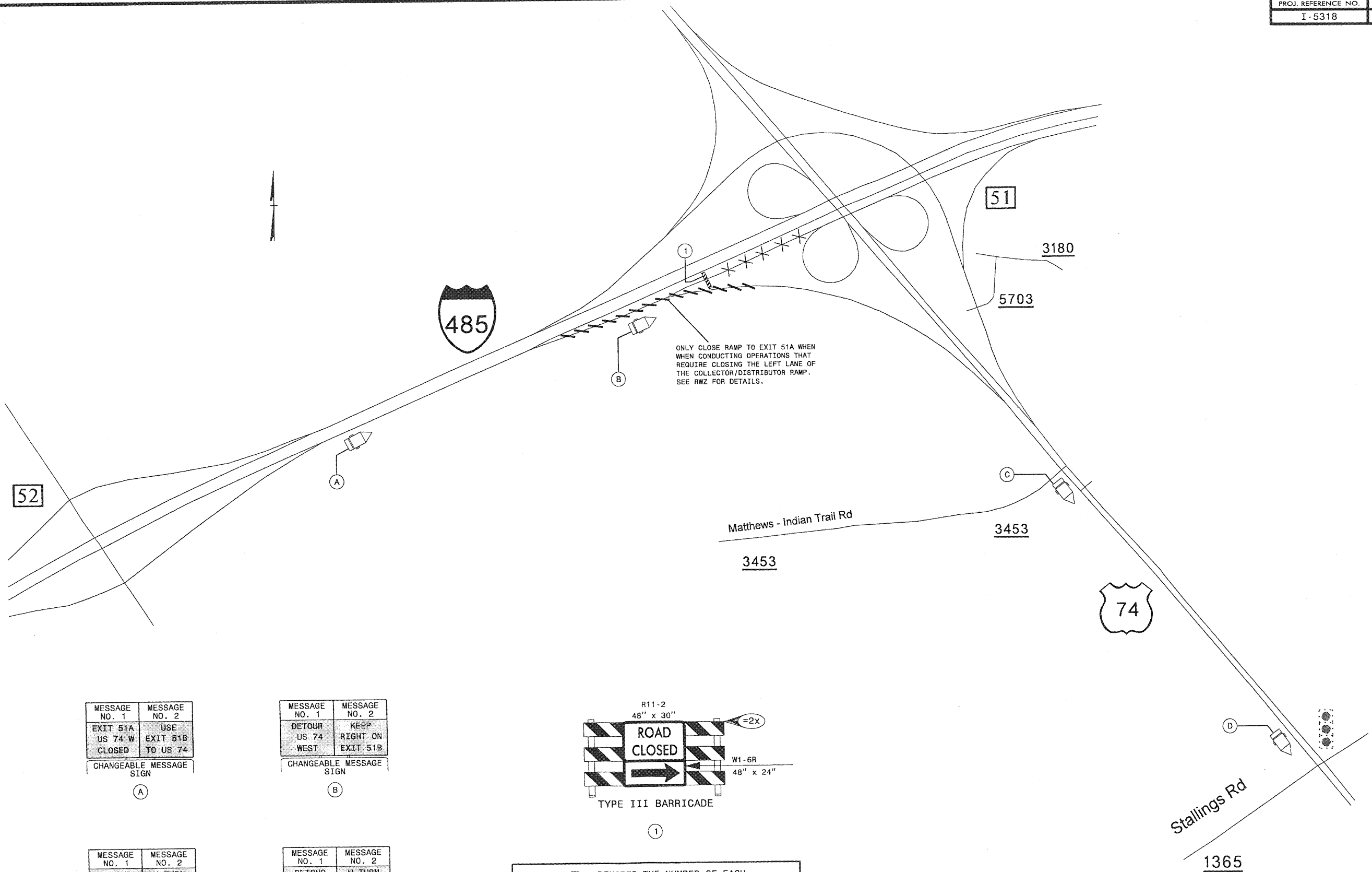
APPROVED: [Signature]
DATE: 1/5/15
SEAL: [Professional Engineer Seal]



OFF-RAMP CLOSURE AT EXIT 51 FROM US 74 EASTBOUND TO I-485 SOUTHBOUND (INNER LOOP)

12/30/2014 5:11 PM N:\Resur Fencing\2014 Resur Fencing\2014 Western\2014 Div\0\201501\I-5318_47038.3.F.1_Mecklenburd\I-485.mxd - sht\Detour\I-485.mxd - sht\Detour\I-485.mxd
 User: tsh03560

10/1/2014
 S:\1100\WZTC\Resurfacing\2014Resurfacing\2014 Western\2014_Div10\C203501-I-5318-47038.3.FSI-Mecklenburg-I-485.m*.sh\Detours\TCP\US 74\I-5318-TC-TMP-US74-SE-Loop.dgn
 User:smasson



MESSAGE NO. 1	MESSAGE NO. 2
EXIT 51A US 74 W CLOSED	USE EXIT 51B TO US 74

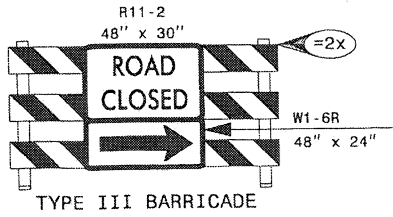
CHANGEABLE MESSAGE SIGN

A

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR US 74 WEST	KEEP RIGHT ON EXIT 51B

CHANGEABLE MESSAGE SIGN

B



1

NOTE: DENOTES THE NUMBER OF EACH BARRICADE/SIGN ASSEMBLY TO BE USED.

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR US 74 WEST	U-TURN AT NEXT SIGNAL

CHANGEABLE MESSAGE SIGN

C

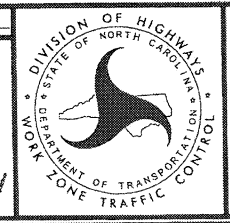
MESSAGE NO. 1	MESSAGE NO. 2
DETOUR US 74 WEST	U-TURN AT SIGNAL

CHANGEABLE MESSAGE SIGN

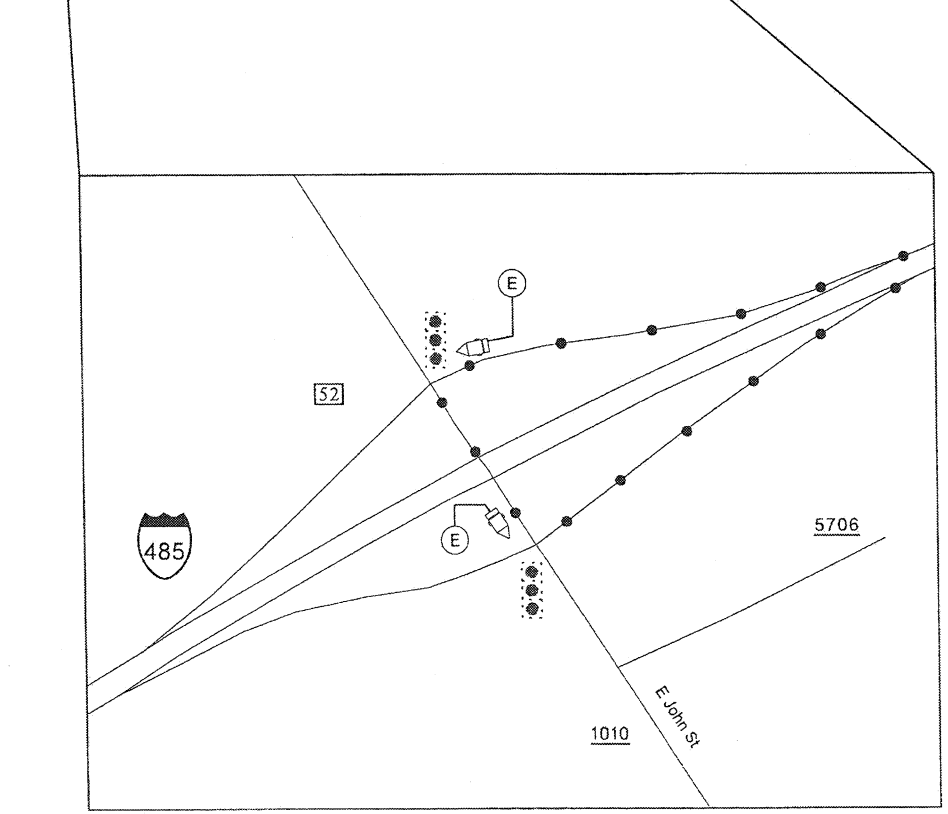
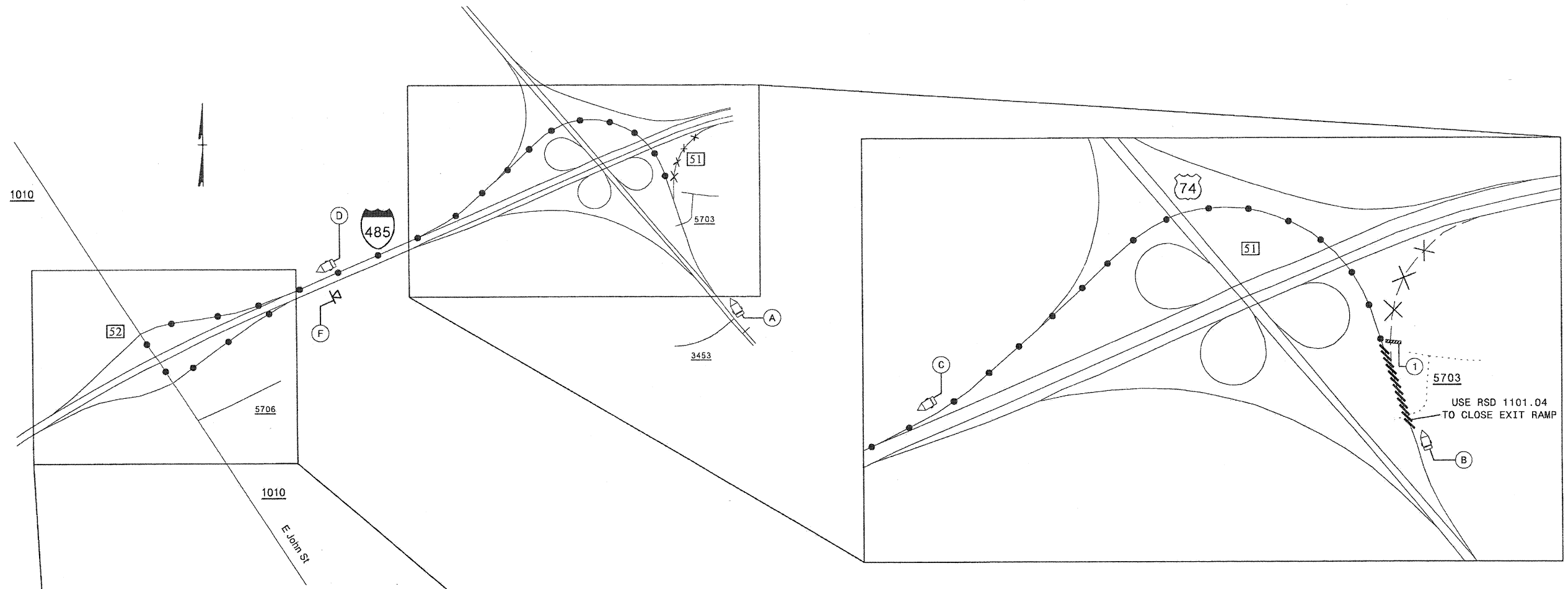
D

APPROVED: DATE: 10/1/14

SEAL:



OFF-RAMP CLOSURE AT EXIT 51
FROM I-485 NORTHBOUND
(OUTER LOOP)
TO US 74 WESTBOUND



MESSAGE NO. 1	MESSAGE NO. 2
I-485	DETOUR
OUTR RMP	CLOSED
CLOSED	AHEAD

CHANGEABLE MESSAGE SIGN

(A)

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR	DETOUR
I-485	TO
OUTER	EXIT 52

CHANGEABLE MESSAGE SIGN

(B)

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR	USE
I-485	EXIT 52
OUTER	1/2 MILE

CHANGEABLE MESSAGE SIGN

(C)

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR	EXIT 52
I-485	NEXT
OUTER	RIGHT

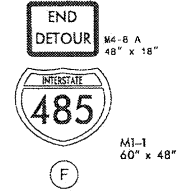
CHANGEABLE MESSAGE SIGN

(D)

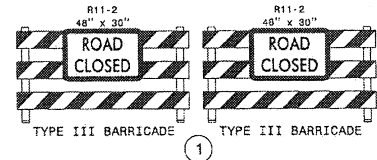
MESSAGE NO. 1	MESSAGE NO. 2
DETOUR	LEFT
I-485	AT
OUTER	SIGNAL

CHANGEABLE MESSAGE SIGN

(E)



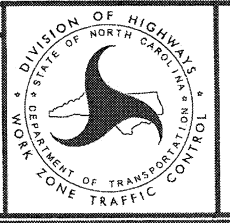
(F)



(1)

APPROVED: *[Signature]* DATE: 1/4/14

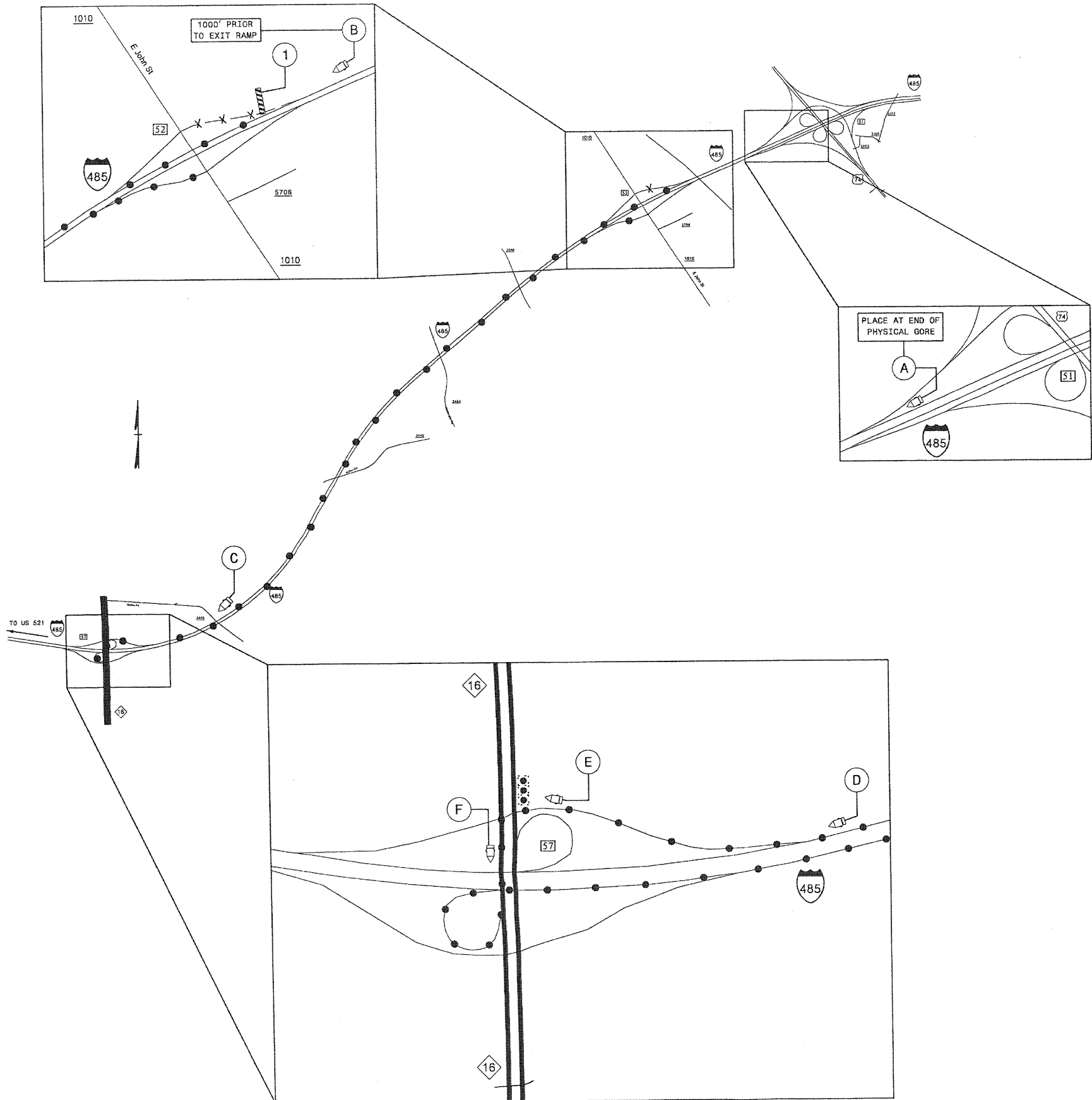
SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 019862 W. WOGLAND, R.



OFF-RAMP CLOSURE AT EXIT 51
FROM US 74 WESTBOUND
TO I-485 NORTHBOUND
(OUTER LOOP)

I:\4\2014\S:\TMU\WZTC\Resur-facing\2014Resur-facing\2014 Western\2014_Div10\C203501_I-5318_47036_3.F51_Mecklenburg_I-485.mxd - sn\Detours\TCP\US 74\I-5318_TC_TMP_U574_SE-Ramp.dgn
 User: jshanson

I:\2014\SA\T\WZIC\Resur\Facing\2014\Resur\Facing\2014\Western\2014\Div\0\C20350\I-5318_47038_3.FSI-Mecklenburg-I-485.m...sh\Detour\TCP\E_John_St\N-5318_TC_BTMP_EJohn_NE-Ramp.dgn
 User:shossan



MESSAGE NO. 1	MESSAGE NO. 2
EXIT 52 CLOSED AHEAD	DETOUR AHEAD
CHANGEABLE MESSAGE SIGN	
A	

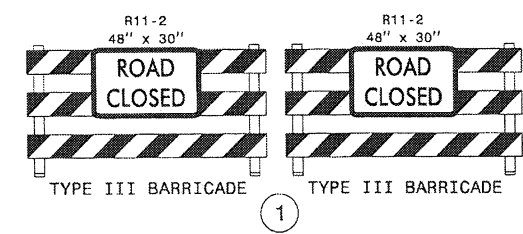
MESSAGE NO. 1	MESSAGE NO. 2
EXIT 52 CLOSED	DETOUR TO E JOHN ST
CHANGEABLE MESSAGE SIGN	
B	

MESSAGE NO. 1	MESSAGE NO. 2
E JOHN ST DETOUR	USE EXIT 57 1/2 MILE
CHANGEABLE MESSAGE SIGN	
C	

MESSAGE NO. 1	MESSAGE NO. 2
E JOHN ST DETOUR	EXIT 57 NEXT RIGHT
CHANGEABLE MESSAGE SIGN	
D	

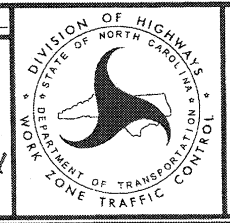
MESSAGE NO. 1	MESSAGE NO. 2
E JOHN ST DETOUR	LEFT AT SIGNAL
CHANGEABLE MESSAGE SIGN	
E	

MESSAGE NO. 1	MESSAGE NO. 2
E JOHN ST DETOUR	NEXT RIGHT TO I-485
CHANGEABLE MESSAGE SIGN	
F	



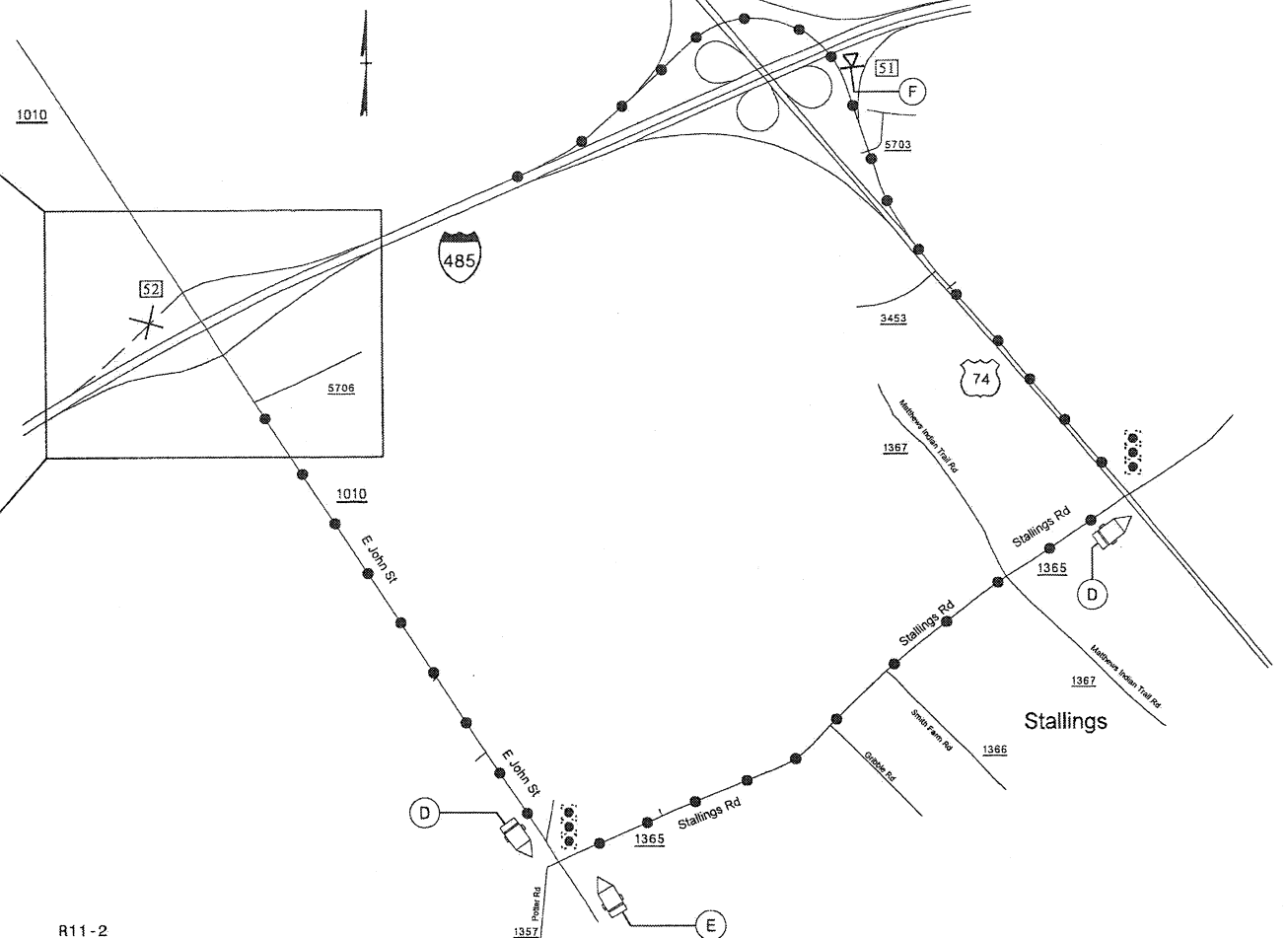
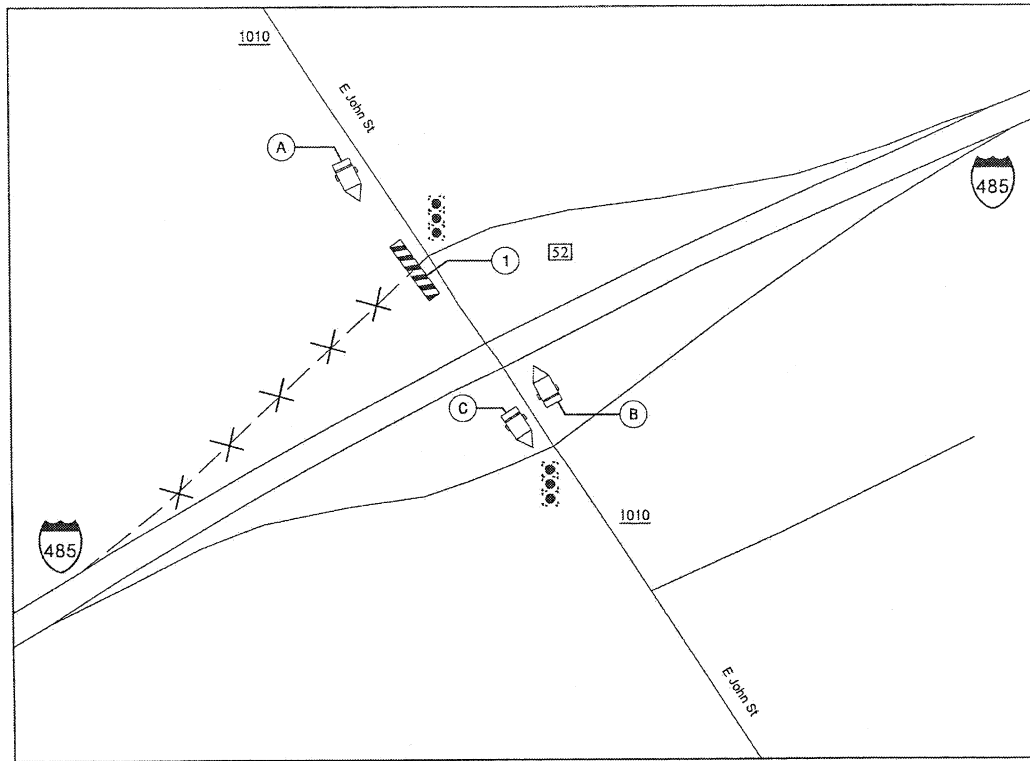
APPROVED: *[Signature]* DATE: 10/16/14

SEAL: PROFESSIONAL ENGINEER, SEAL 019862, W. WOODWARD JR.



OFF-RAMP CLOSURE AT EXIT 52 FROM I-485 SOUTHBOUND (INNER LOOP) TO E JOHN ST

11/4/2014 S:\TMU\WZTC\Resurfacing\2014Resurfacing\2014Western\2014_Div10\C203501_I-5318_47038.3\F51_Mecklenburg_I-485.mxd sh\Detours\TCP\E John St\I-5318_TC_BTMP_EJohn_NW-Ramp.dgn User:shasson



MESSAGE NO. 1	MESSAGE NO. 2
RAMP TO I-485 CLOSED	DETOUR AHEAD

CHANGEABLE MESSAGE SIGN

(A)

MESSAGE NO. 1	MESSAGE NO. 2
RAMP TO I-485 CLOSED	U-TURN AT NEXT SIGNAL

CHANGEABLE MESSAGE SIGN

(B)

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR I-485 INNER	USE E JOHN ST

CHANGEABLE MESSAGE SIGN

(C)

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR I-485 INNER	LEFT AT SIGNAL

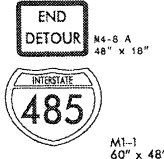
CHANGEABLE MESSAGE SIGN

(D)

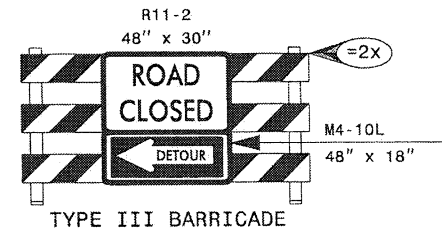
MESSAGE NO. 1	MESSAGE NO. 2
DETOUR I-485 INNER	RIGHT AT SIGNAL

CHANGEABLE MESSAGE SIGN

(E)



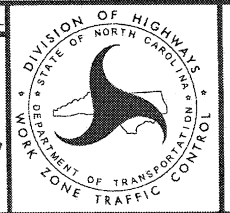
(F)



(1)

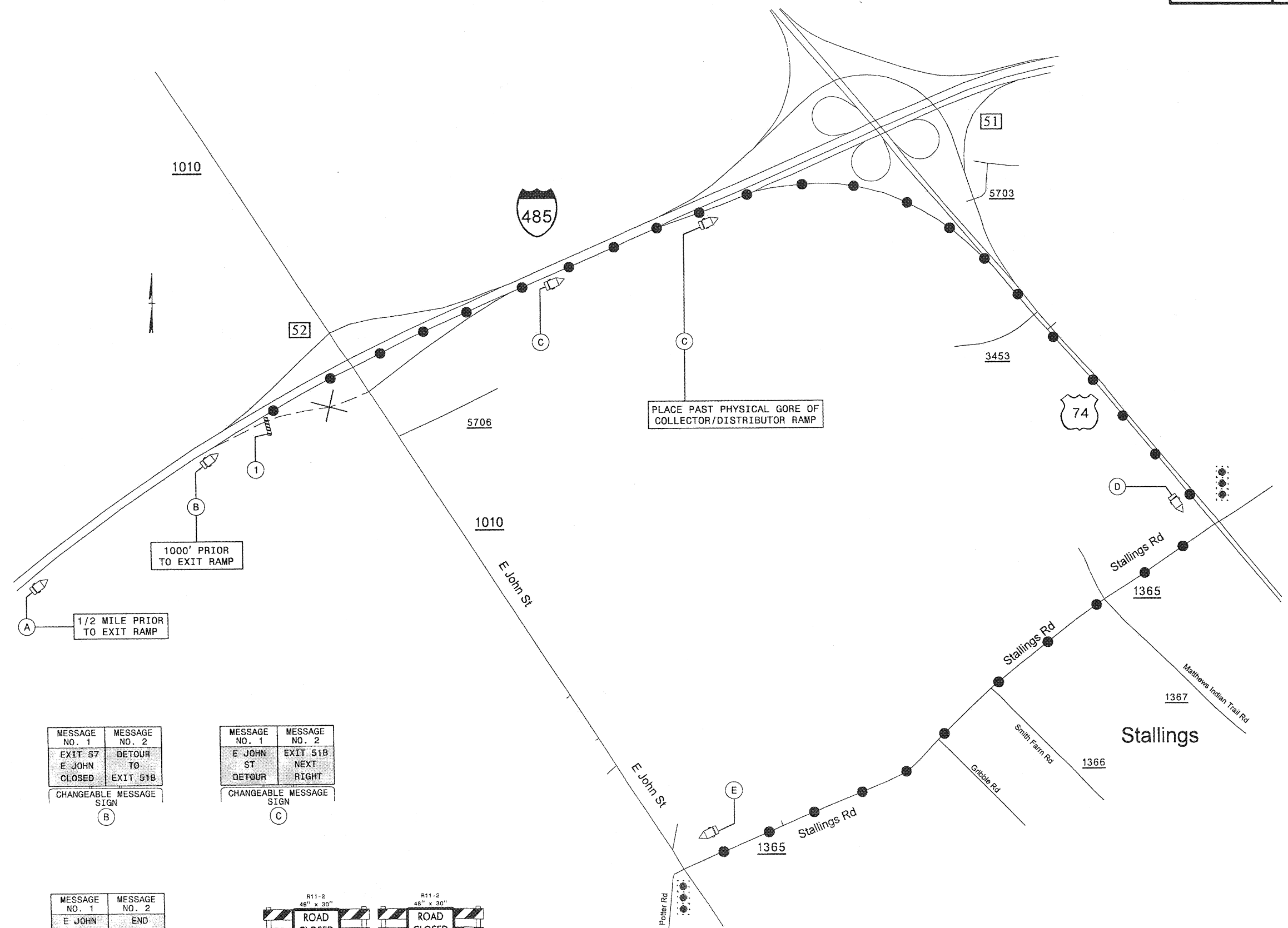
NOTE: (X) DENOTES THE NUMBER OF EACH BARRICADE/SIGN ASSEMBLY TO BE USED.

APPROVED: DATE: 11/4/14



ON-RAMP CLOSURE AT EXIT 52 FROM E JOHN ST TO I-485 SOUTHBOUND (INNER LOOP)

10/1/2014 S:\TMU\WZTC\Resur\Facing\2014 Western\2014\DIVID\203501\I-5318_47038_3.FSI_Mecklenburg_I-485.mxd -sh\Detour\TCPVE John ST\I-5318_TC.BTMP_EJohn_SW-Ramp.dgn User:shosson



PLACE PAST PHYSICAL GORE OF COLLECTOR/DISTRIBUTOR RAMP

1000' PRIOR TO EXIT RAMP

1/2 MILE PRIOR TO EXIT RAMP

MESSAGE NO. 1	MESSAGE NO. 2
EXIT 52 CLOSED AHEAD	DETOUR AHEAD
CHANGEABLE MESSAGE SIGN	

(A)

MESSAGE NO. 1	MESSAGE NO. 2
EXIT 57 E JOHN ST CLOSED	DETOUR TO EXIT 51B
CHANGEABLE MESSAGE SIGN	

(B)

MESSAGE NO. 1	MESSAGE NO. 2
E JOHN ST DETOUR	EXIT 51B NEXT RIGHT
CHANGEABLE MESSAGE SIGN	

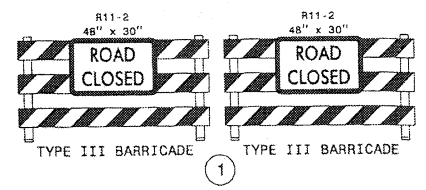
(C)

MESSAGE NO. 1	MESSAGE NO. 2
E JOHN ST DETOUR	RIGHT AT NEXT SIGNAL
CHANGEABLE MESSAGE SIGN	

(D)

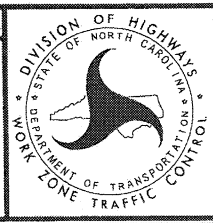
MESSAGE NO. 1	MESSAGE NO. 2
E JOHN ST AHEAD	END DETOUR
CHANGEABLE MESSAGE SIGN	

(E)



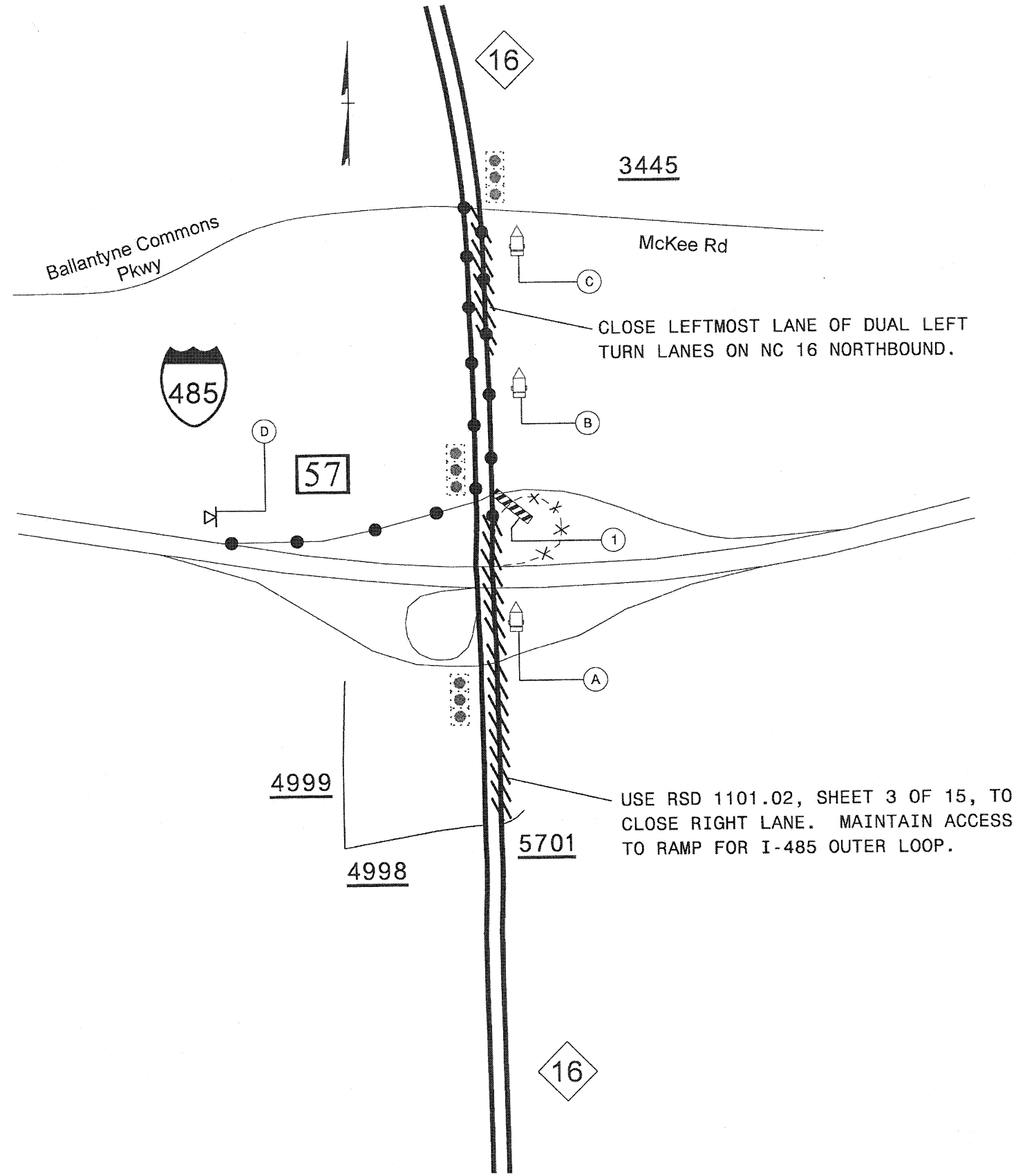
APPROVED: _____ DATE: 10/1/14

SEAL: [Professional Engineer Seal for W. Woolard, R. 019862]



OFF-RAMP CLOSURE AT EXIT 52 FROM I-485 NORTHBOUND (OUTER LOOP) TO E JOHN ST

10/1/2014
 S:\T\WZTC\ResurFacing\2014ResurFacing\2014 Western\2014.Div\0\C20350L-I-5318-47038.3.FSI.Mecklenburg-I-485.mxd...sh\Detour\TCP\NC 16\I-5318-TC.TMP-NC16_NE-L-Loop.dgn
 User:shosson



MESSAGE NO. 1	MESSAGE NO. 2
RAMP TO I-485 CLOSED	DETOUR AHEAD

CHANGEABLE MESSAGE SIGN

(A)

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR I-485 INNER	U-TURN AT NEXT SIGNAL

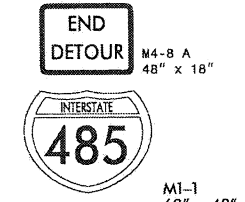
CHANGEABLE MESSAGE SIGN

(B)

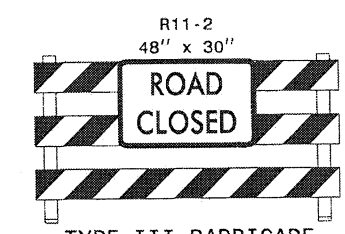
MESSAGE NO. 1	MESSAGE NO. 2
DETOUR I-485 INNER	U-TURN AT SIGNAL

CHANGEABLE MESSAGE SIGN

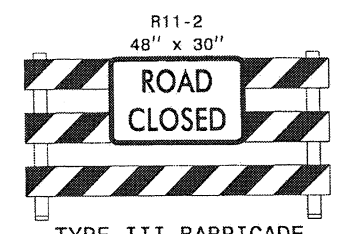
(C)



(D)

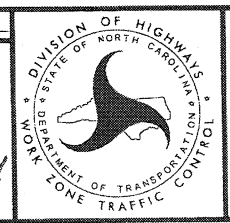


(1)

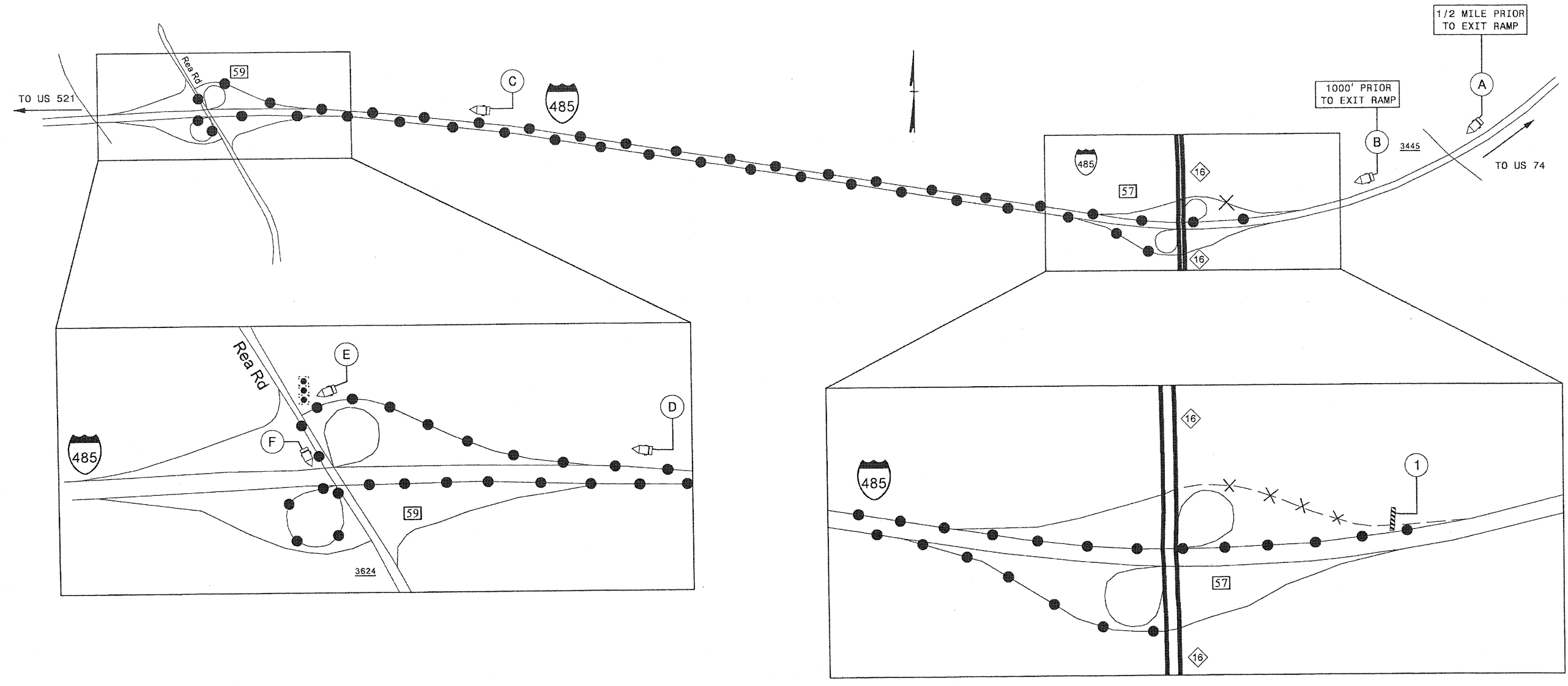


APPROVED: *[Signature]* DATE: 10/1/14

SEAL: PROFESSIONAL ENGINEER SEAL 019862 J.W. WOOLARD JR.



LOOP CLOSURE AT EXIT 57
 FROM NC 16 NORTHBOUND
 TO I-485 SOUTHBOUND
 (INNER LOOP)



MESSAGE NO. 1	MESSAGE NO. 2
EXIT 57 CLOSED AHEAD	DETOUR AHEAD

CHANGEABLE MESSAGE SIGN
A

MESSAGE NO. 1	MESSAGE NO. 2
EXIT 57 NC 16 CLOSED	DETOUR TO EXIT 59

CHANGEABLE MESSAGE SIGN
B

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR NC 16 1/2 MILE	USE EXIT 57 1/2 MILE

CHANGEABLE MESSAGE SIGN
C

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR NC 16	EXIT 57 NEXT RIGHT

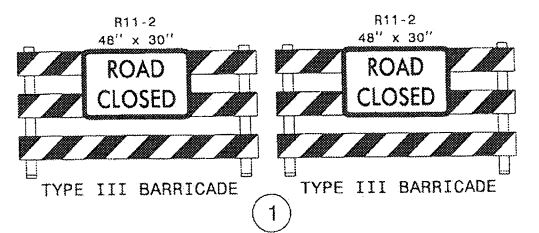
CHANGEABLE MESSAGE SIGN
D

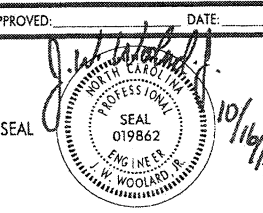
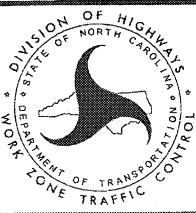
MESSAGE NO. 1	MESSAGE NO. 2
DETOUR NC 16	LEFT AT SIGNAL

CHANGEABLE MESSAGE SIGN
E

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR NC 16	NEXT RIGHT TO I-485

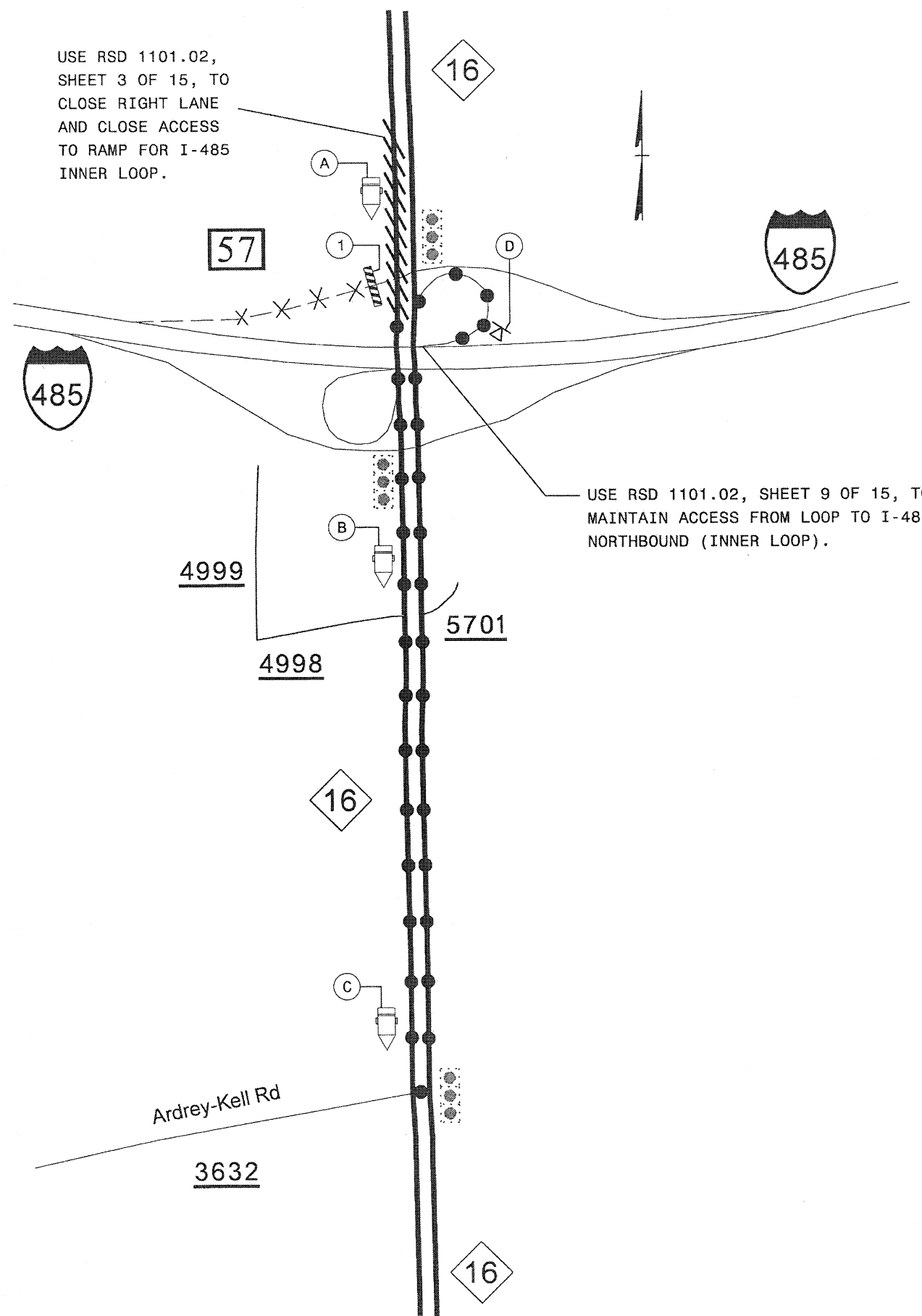
CHANGEABLE MESSAGE SIGN
F



APPROVED: 	DATE: 10/16/14		OFF-RAMP CLOSURE AT EXIT 57 FROM I-485 SOUTHBOUND (INNER LOOP) TO NC 16
SEAL STATE OF NORTH CAROLINA PROFESSIONAL ENGINEER J. WOOLARD			

I:\1\2014\2014\WZTC\Resur\Facing\2014Resur\Facing\2014\Div\0\C20350.L-5318_47038.3.FSI_Mecklenburg.L-485.m*_sh\Detours\TCP\NC 16\I-5318-TC.TMP_NC16_NE-Ramp.dgn
 User:shossan

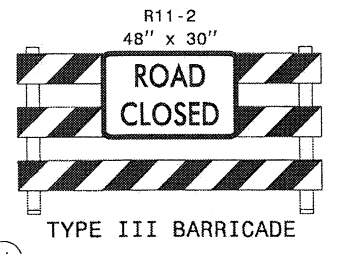
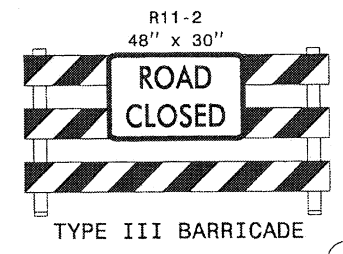
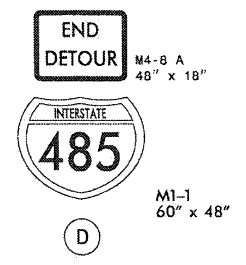
USE RSD 1101.02, SHEET 3 OF 15, TO CLOSE RIGHT LANE AND CLOSE ACCESS TO RAMP FOR I-485 INNER LOOP.



MESSAGE NO. 1	MESSAGE NO. 2
I-485 INNR RMP CLOSED	DETOUR AHEAD
CHANGEABLE MESSAGE SIGN	
(A)	

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR I-485 INNER	U-TURN AT NEXT SIGNAL
CHANGEABLE MESSAGE SIGN	
(B)	

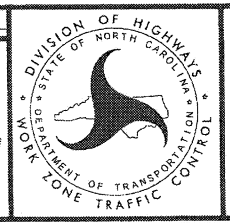
MESSAGE NO. 1	MESSAGE NO. 2
DETOUR I-485 INNER	U-TURN AT SIGNAL
CHANGEABLE MESSAGE SIGN	
(C)	



①

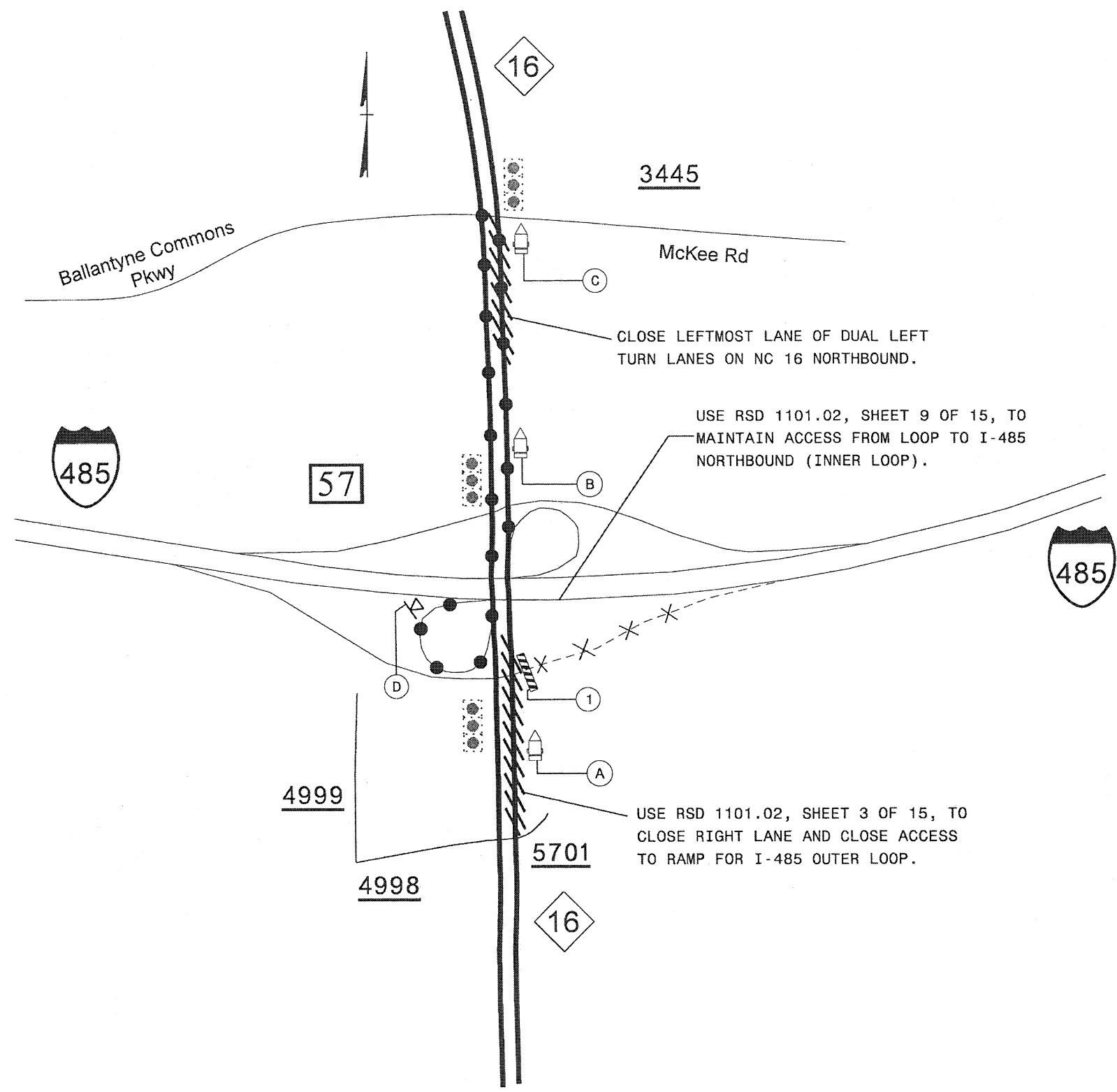
11/4/2014 S:\T\101\WZ\TC_Resur-facing\2014_Resur-facing\2014_Div\0\203501-I-5318_47038.3.FSL\Mecklenburg-I-485_m*_sh\Detours\TCP\NC 16\I-5318_TC-TMP_NC16_NW-Romp.dgn User:shosson

APPROVED: *[Signature]* DATE: 11/4/14
 SEAL: PROFESSIONAL ENGINEER SEAL 019862 W. WOODWARD



ON-RAMP CLOSURE AT EXIT 57 FROM NC 16 SOUTHBOUND TO I-485 SOUTHBOUND (INNER LOOP)

I:\4\2014\S\1\TMU\NWZ\TC\Resur-facing\2014Resur-facing\2014 Western\2014.DIV\10\C203501_I-5318_47038.3.F51.Mecklenburg-I-485.m* _sh\Detours\TCP\NC 16\I-5318_TC_TMP_NC16_SE-Romp.dgn
 User: shassan



3445

McKee Rd

Ballantyne Commons Pkwy

CLOSE LEFTMOST LANE OF DUAL LEFT TURN LANES ON NC 16 NORTHBOUND.

USE RSD 1101.02, SHEET 9 OF 15, TO MAINTAIN ACCESS FROM LOOP TO I-485 NORTHBOUND (INNER LOOP).

USE RSD 1101.02, SHEET 3 OF 15, TO CLOSE RIGHT LANE AND CLOSE ACCESS TO RAMP FOR I-485 OUTER LOOP.

MESSAGE NO. 1	MESSAGE NO. 2
I-485 OTR RMP CLOSED	DETOUR AHEAD

CHANGEABLE MESSAGE SIGN

(A)

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR I-485 OUTER	U-TURN AT NEXT SIGNAL

CHANGEABLE MESSAGE SIGN

(B)

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR I-485 OUTER	U-TURN AT SIGNAL

CHANGEABLE MESSAGE SIGN

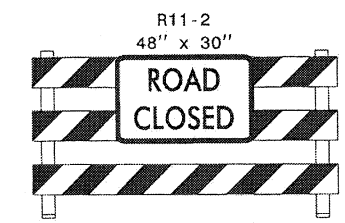
(C)

END DETOUR

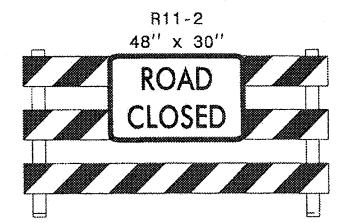


M1-1 60" x 48"

(D)



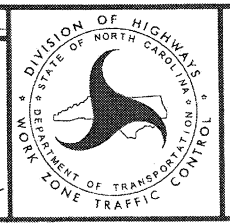
TYPE III BARRICADE



TYPE III BARRICADE

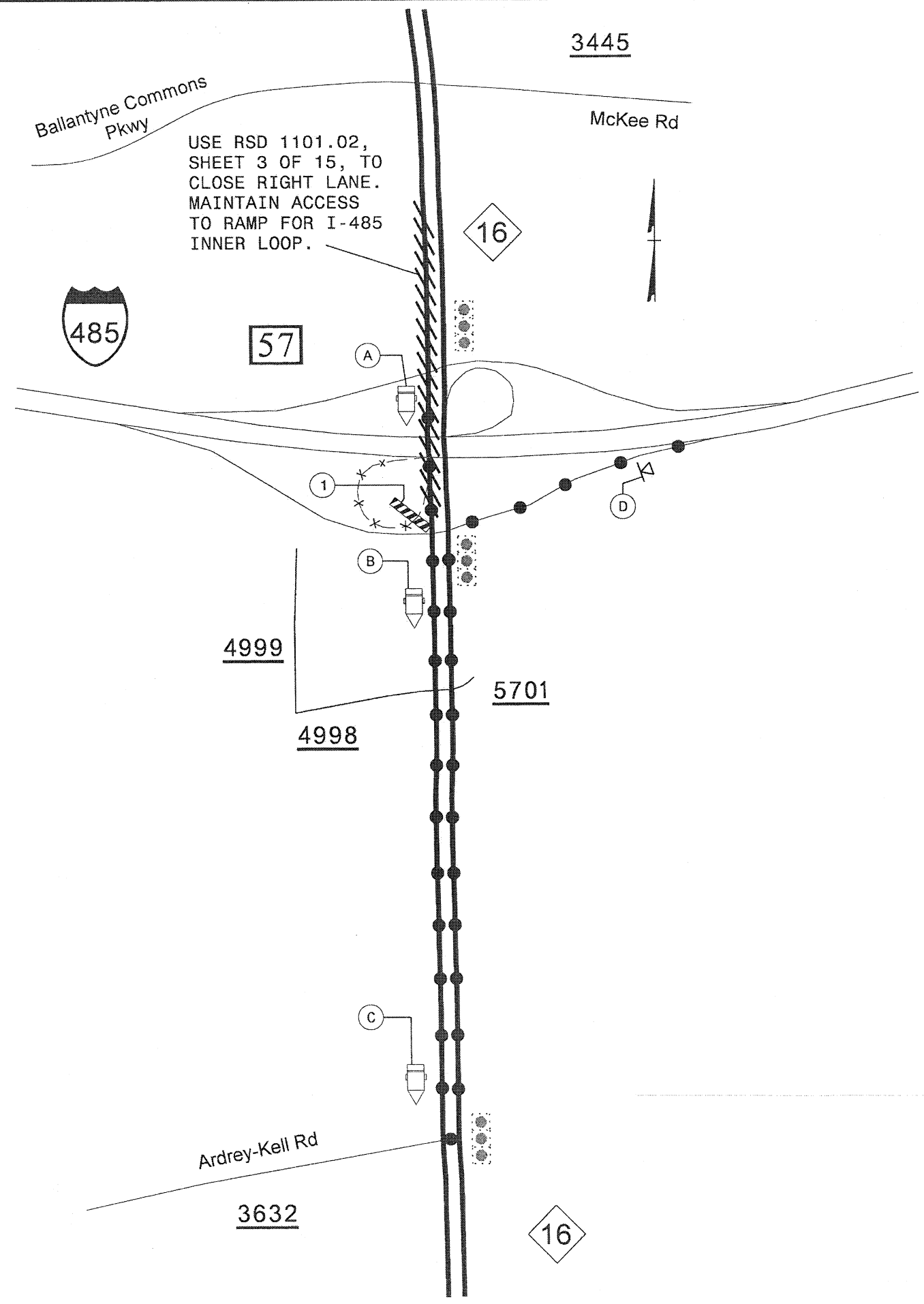
(1)

APPROVED: *[Signature]* DATE: 1/4/12
 SEAL: PROFESSIONAL ENGINEER
 W. WOODLAND, R.



LOOP CLOSURE AT EXIT 57 FROM NC 16 NORTHBOUND TO I-485 NORTHBOUND (OUTER LOOP)

I:\4\2014\Resurfacing\2014Resurfacing\2014 Western\2014.DIV\20350\I-5318_47038.3\FSL_Mecklenburg_I-485_in-sh\Detours\TCP\NC 16\I-5318_TC_TMP_NC16_SW-Loop.dgn
 User: shobson



MESSAGE NO. 1	MESSAGE NO. 2
I-485	DETOUR
OUTR RMP	AHEAD
CLOSED	

CHANGEABLE MESSAGE SIGN

(A)

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR	U-TURN
I-485	AT NEXT
OUTER	SIGNAL

CHANGEABLE MESSAGE SIGN

(B)

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR	U-TURN
I-485	AT
OUTER	SIGNAL

CHANGEABLE MESSAGE SIGN

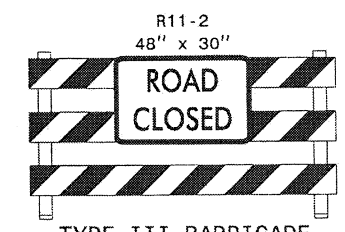
(C)

END
DETOUR

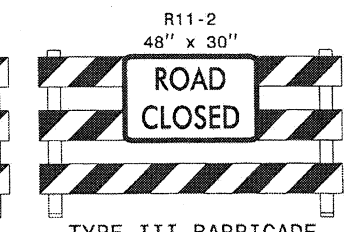


M1-1
60" x 48"

(D)



TYPE III BARRICADE

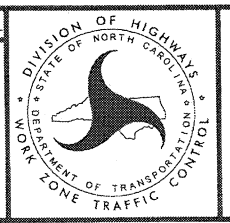


TYPE III BARRICADE

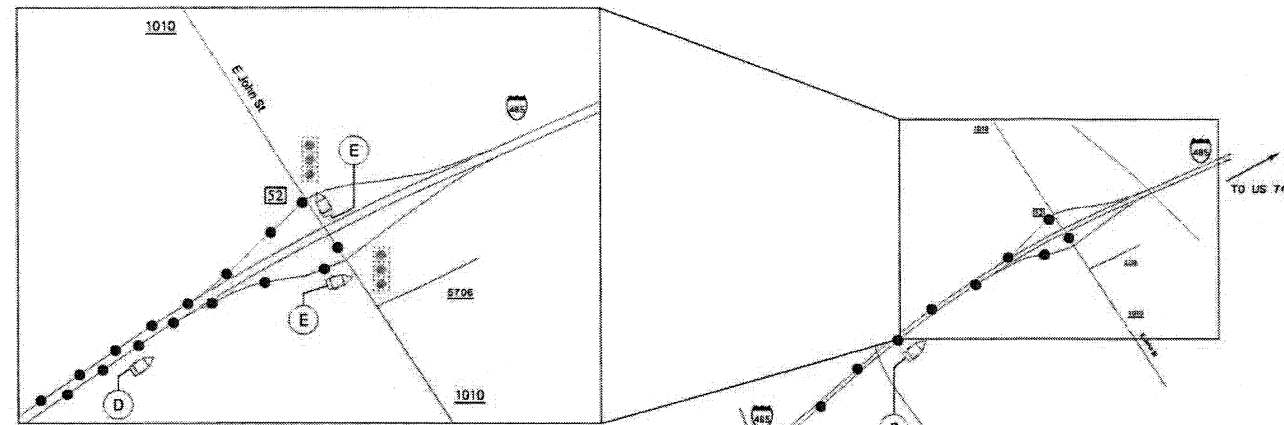
(1)

APPROVED: _____ DATE: _____

SEAL



LOOP CLOSURE AT EXIT 57
FROM NC 16 NORTHBOUND
TO I-485 NORTHBOUND
(OUTER LOOP)



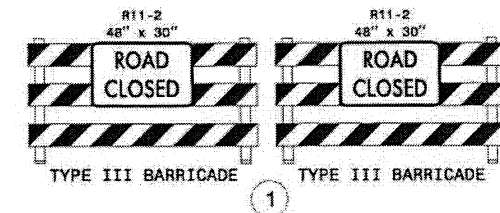
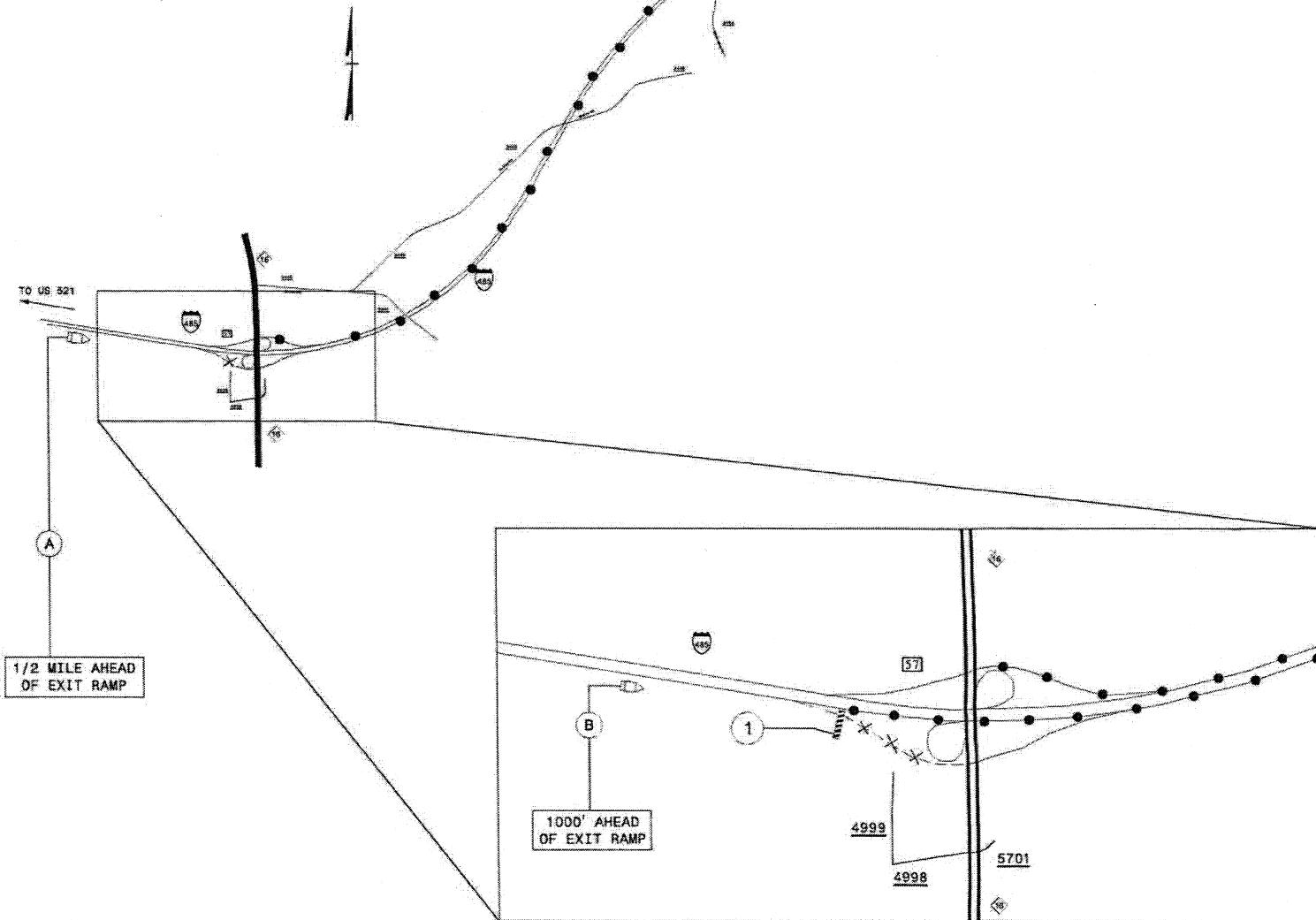
MESSAGE NO. 1	MESSAGE NO. 2
EXIT 57 CLOSED AHEAD	DETOUR AHEAD
CHANGEABLE MESSAGE SIGN	
A	

MESSAGE NO. 1	MESSAGE NO. 2
EXIT 57 NC 16 CLOSED	DETOUR TO EXIT 52
CHANGEABLE MESSAGE SIGN	
B	

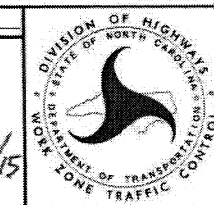
MESSAGE NO. 1	MESSAGE NO. 2
DETOUR NC 16 1/2 MILE	USE EXIT 52 1/2 MILE
CHANGEABLE MESSAGE SIGN	
C	

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR NC 16	EXIT 52 NEXT RIGHT
CHANGEABLE MESSAGE SIGN	
D	

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR NC 16	LEFT AT SIGNAL
CHANGEABLE MESSAGE SIGN	
E	

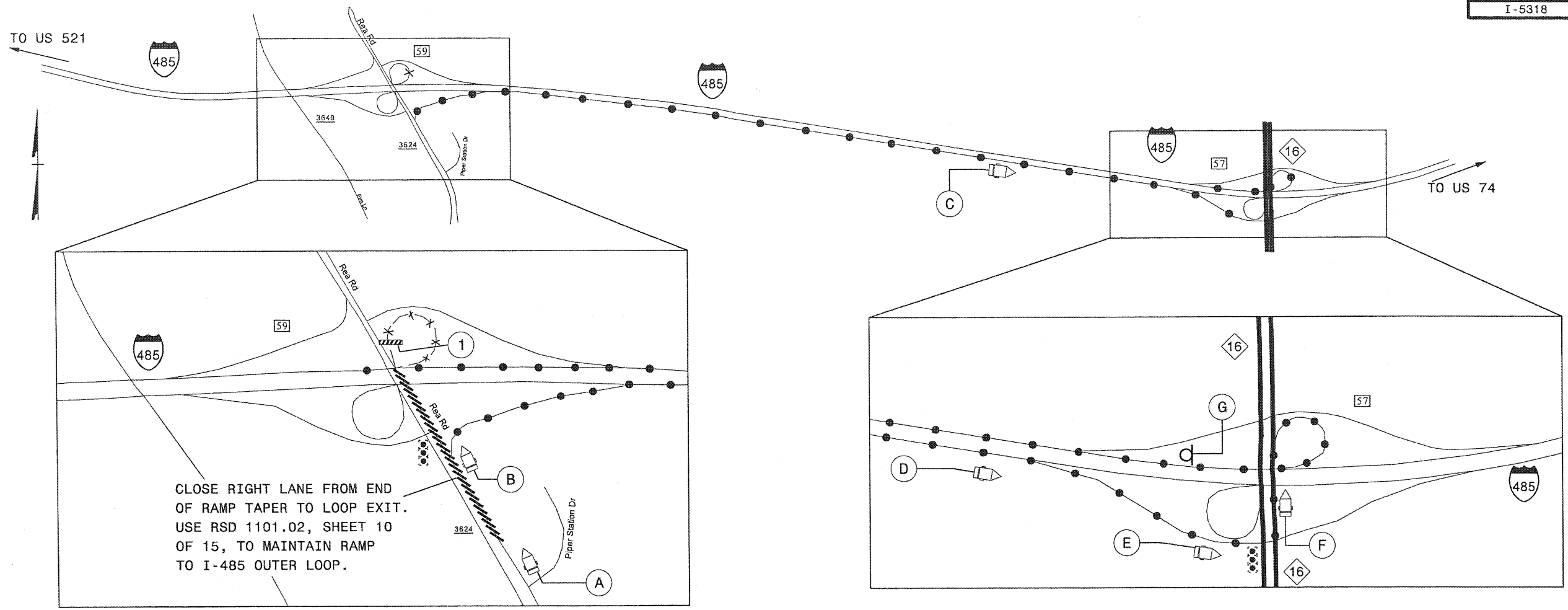


APPROVED: *[Signature]* DATE: 1/5/15
 SEAL: PROFESSIONAL ENGINEER SEAL 019862
 W. WOODWARD, III
 ENGINEER



OFF-RAMP CLOSURE AT EXIT 57
 FROM I-485 NORTHBOUND
 (OUTER LOOP)
 TO NC 16

P:\307\3041... Resur-fairing\2014Resur-fairing\2014... User:shosson



CLOSE RIGHT LANE FROM END OF RAMP TAPER TO LOOP EXIT. USE RSD 1101.02, SHEET 10 OF 15, TO MAINTAIN RAMP TO I-485 OUTER LOOP.

MESSAGE NO. 1	MESSAGE NO. 2
I-485 INNR RMP CLOSED	DETOUR AHEAD

CHANGEABLE MESSAGE SIGN

(A)

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR I-485 INNER	EXIT RIGHT AT SIGNAL

CHANGEABLE MESSAGE SIGN

(B)

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR I-485 INNER	USE EXIT 57 1/2 MILE

CHANGEABLE MESSAGE SIGN

(C)

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR I-485 INNER	EXIT 57 NEXT RIGHT

CHANGEABLE MESSAGE SIGN

(D)

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR I-485 INNER	LEFT AT SIGNAL

CHANGEABLE MESSAGE SIGN

(E)

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR I-485 INNER	EXIT NEXT RIGHT

CHANGEABLE MESSAGE SIGN

(F)

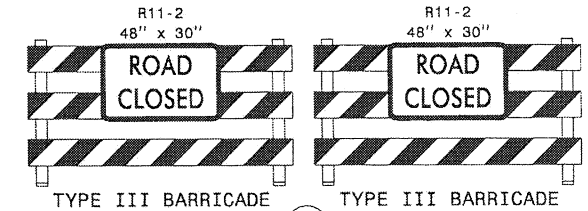
END
DETOUR

M4-B A
48" x 18"



M1-1
60" x 48"

(G)



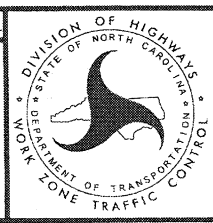
TYPE III BARRICADE

TYPE III BARRICADE

(1)

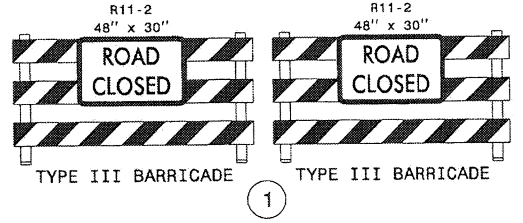
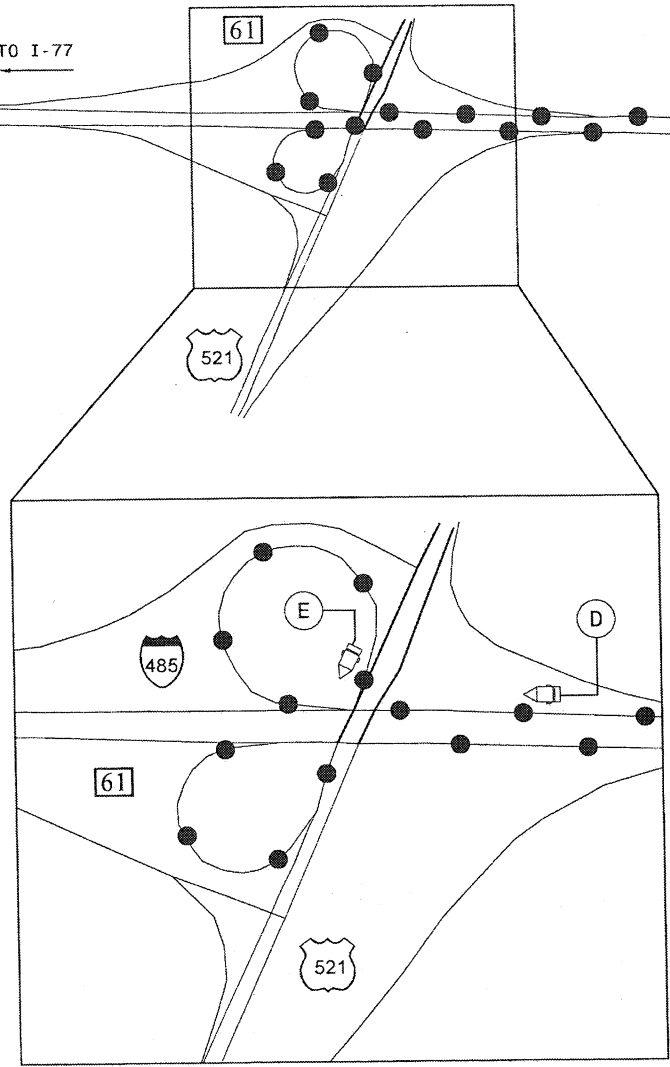
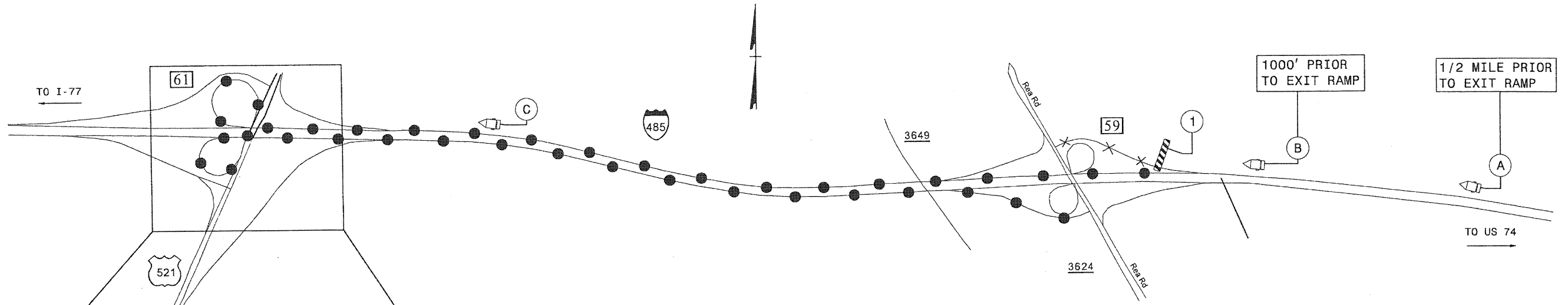
APPROVED: *[Signature]* DATE: *11/14/14*

SEAL



LOOP CLOSURE AT EXIT 59 FROM REA RD NORTHBOUND TO I-485 NORTHBOUND (INNER LOOP)

11/4/2014 S:\TMUNWZTC\Resur-facing\2014Resur-facing\2014 West-n\2014_Div\0\2035001_1-5318_47038.3.FS1_Mecklenburg-J-485.mxd Detours\TCP\Rea Rd\I-5318-TC-TMP-Red-NE-Loop.dgn User:stossom



MESSAGE NO. 1	MESSAGE NO. 2
EXIT 59 CLOSED AHEAD	DETOUR AHEAD

CHANGEABLE MESSAGE SIGN

(A)

MESSAGE NO. 1	MESSAGE NO. 2
EXIT 59 REA RD CLOSED	DETOUR TO EXIT 61B

CHANGEABLE MESSAGE SIGN

(B)

MESSAGE NO. 1	MESSAGE NO. 2
REA RD DETOUR 1/2 MILE	USE EXIT 61B 1/2 MILE

CHANGEABLE MESSAGE SIGN

(C)

MESSAGE NO. 1	MESSAGE NO. 2
REA RD DETOUR	EXIT 61B NEXT RIGHT

CHANGEABLE MESSAGE SIGN

(D)

MESSAGE NO. 1	MESSAGE NO. 2
REA RD DETOUR	NEXT RIGHT TO I-485

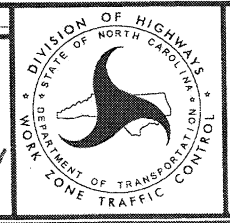
CHANGEABLE MESSAGE SIGN

(E)

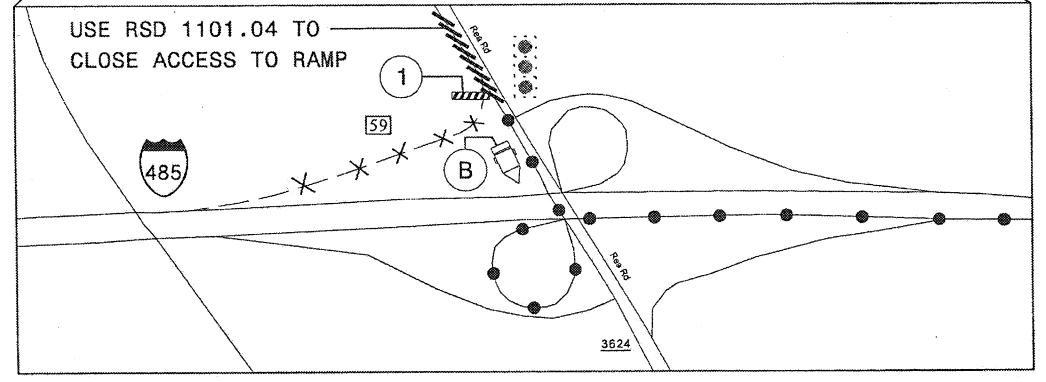
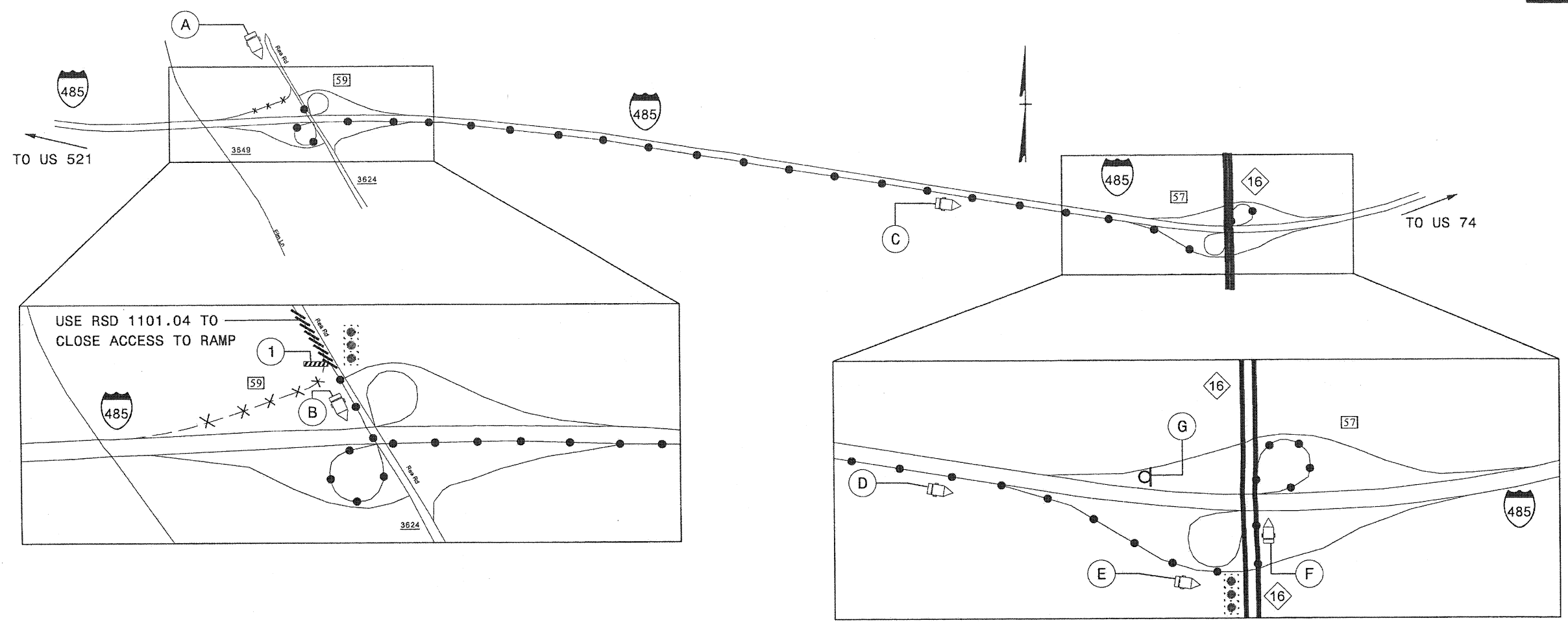
10/1/2014
 C:\TIA\W7TC\ResurFacing\2014 Western\2014_Div10\C203501-I-5318-47038-3.FSI_Mecklenburg-I-485.m_sh\Detours\TCP\Rec Rd\I-5318-TC_TMP_Rec_NE-Ramp.dgn
 User:sths550n

APPROVED: *[Signature]* DATE: 10/16/14

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 019862 W. WOOLARD JR.



OFF-RAMP CLOSURE AT EXIT 59
FROM I-485 NORTHBOUND
(INNER LOOP)
TO REA RD



MESSAGE NO. 1	MESSAGE NO. 2
I-485 INNR RMP CLOSED	DETOUR AHEAD

CHANGEABLE MESSAGE SIGN

A

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR I-485 INNER	EXIT NEXT RIGHT

CHANGEABLE MESSAGE SIGN

B

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR I-485 INNER	USE EXIT 57 1/2 MILE

CHANGEABLE MESSAGE SIGN

C

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR I-485 INNER	EXIT 57 NEXT RIGHT

CHANGEABLE MESSAGE SIGN

D

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR I-485 INNER	LEFT AT SIGNAL

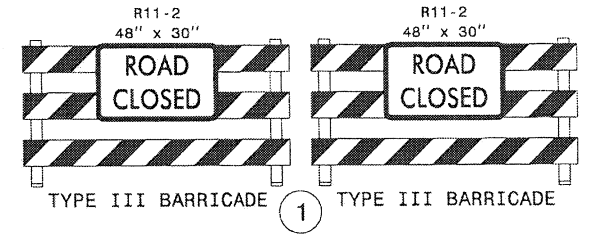
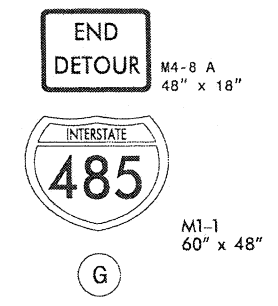
CHANGEABLE MESSAGE SIGN

E

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR I-485 INNER	EXIT NEXT RIGHT

CHANGEABLE MESSAGE SIGN

F



APPROVED: [Signature]

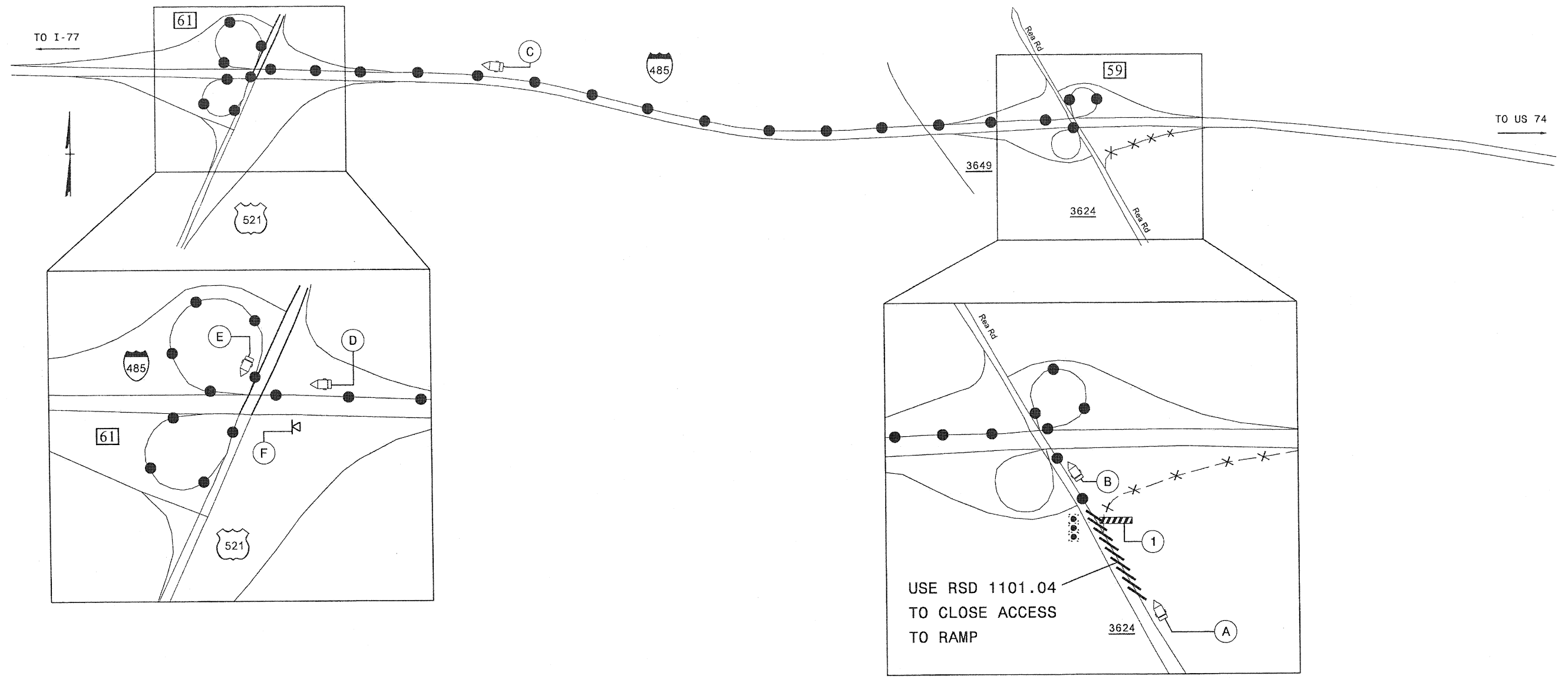
DATE: 11/4/14

SEAL: [Professional Engineer Seal]

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

ON-RAMP CLOSURE AT EXIT 59
FROM REA RD SOUTHBOUND
TO I-485 NORTHBOUND
(INNER LOOP)

11/4/2014 5:17:00 PM S:\TMU\WZTC\Resurfacing\2014Resurfacing\2014 Western\2014_Div10\C203501_I-5318_47038.3.FSI\Mecklenburg_I-485.m#_sh\Detours\TCP\Reo Rd\I-5318_TC_TMP_Rec_NW_Romp.dgn User:shasson



MESSAGE NO. 1	MESSAGE NO. 2
I-485 OUTR RMP CLOSED	DETOUR AHEAD

CHANGEABLE MESSAGE SIGN

A

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR I-485 OUTER	DETOUR NEXT RIGHT

CHANGEABLE MESSAGE SIGN

B

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR I-485 OUTER	USE EXIT 61B 1/2 MILE

CHANGEABLE MESSAGE SIGN

C

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR I-485 OUTER	EXIT 61B NEXT RIGHT

CHANGEABLE MESSAGE SIGN

D

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR I-485 OUTER	EXIT NEXT RIGHT

CHANGEABLE MESSAGE SIGN

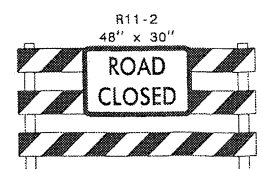
E

END
DETOUR

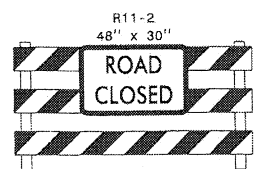


M1-1
60" x 48"

F



R11-2
48" x 30"
TYPE III BARRICADE 1

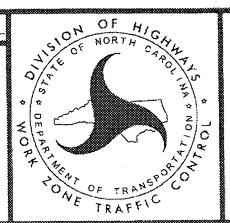


R11-2
48" x 30"
TYPE III BARRICADE

APPROVED: *[Signature]* DATE: *[Date]*

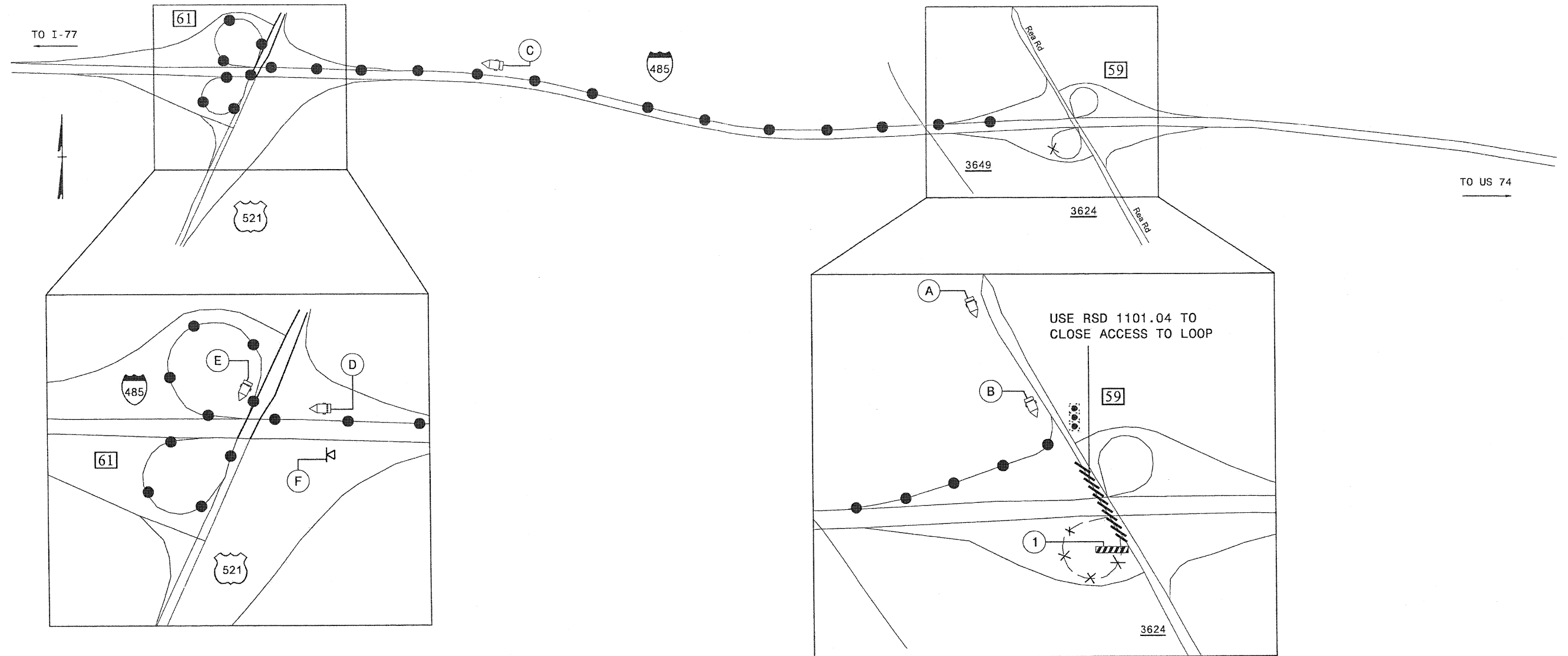
SEAL

PROFESSIONAL ENGINEER
W. WOOLARD, JR.
019862



ON-RAMP CLOSURE AT EXIT 59
FROM REA RD NORTHBOUND
TO I-485 SOUTHBOUND
(OUTER LOOP)

11/4/2014 5:11:00 PM WZTC:\Resurfacing\2014Resurfacing\2014 Westerrn\2014_DIV\01\203501_I-5318_47038.3\FSL\Mecklenburg-I-485.mxd SH\Detours\TCP\Rea Rd-I-485-TC-TMP-Res-SE-Romp.dgn User:sthasson



MESSAGE NO. 1	MESSAGE NO. 2
I-485 OUTR RMP CLOSED	DETOUR AHEAD

CHANGEABLE MESSAGE SIGN

(A)

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR I-485 OUTER	EXIT NEXT RIGHT

CHANGEABLE MESSAGE SIGN

(B)

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR I-485 OUTER	USE EXIT 61B 1/2 MILE

CHANGEABLE MESSAGE SIGN

(C)

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR I-485 OUTER	EXIT 61B NEXT RIGHT

CHANGEABLE MESSAGE SIGN

(D)

MESSAGE NO. 1	MESSAGE NO. 2
DETOUR I-485 OUTER	EXIT NEXT RIGHT

CHANGEABLE MESSAGE SIGN

(E)

END
DETOUR



M1-1
60" x 48"

(F)



R11-2
48" x 30"

TYPE III BARRICADE

(1)



R11-2
48" x 30"

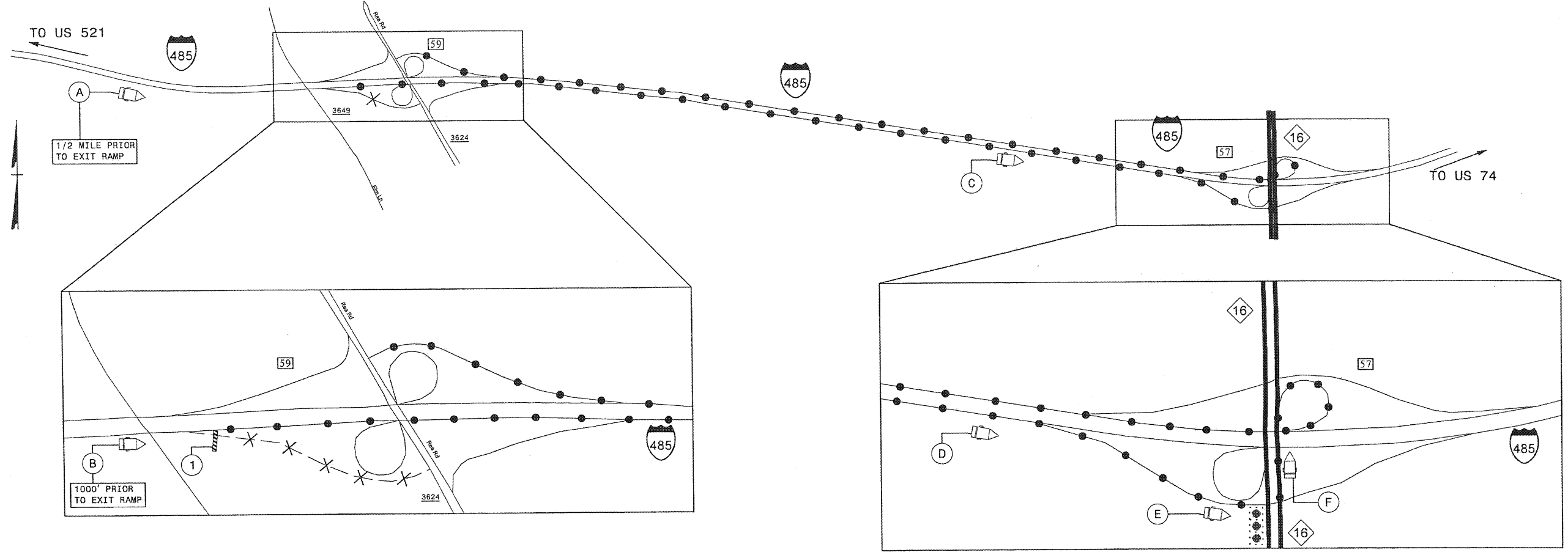
TYPE III BARRICADE

APPROVED: _____ DATE: _____

SEAL

LOOP CLOSURE AT EXIT 59
FROM REA RD SOUTHBOUND
TO I-485 SOUTHBOUND
(OUTER LOOP)

11/4/2014 S:\TMU\WZTC\Resurfacing\2014Resurfacing\2014 West\resurfacing\2014\Div\0203500\I-5318_47038.3.FSI_Mecklenburg\I-485_m_sh\Detours\TCP\Res Rd\I-5318_TC_TMP_Res_SW-Loop.dgn User:shasson



MESSAGE NO. 1	MESSAGE NO. 2
EXIT 59 CLOSED AHEAD	DETOUR AHEAD

CHANGEABLE MESSAGE SIGN
A

MESSAGE NO. 1	MESSAGE NO. 2
EXIT 59 REA RD CLOSED	DETOUR TO EXIT 57

CHANGEABLE MESSAGE SIGN
B

MESSAGE NO. 1	MESSAGE NO. 2
REA RD DETOUR 1/2 MILE	USE EXIT 57 1/2 MILE

CHANGEABLE MESSAGE SIGN
C

MESSAGE NO. 1	MESSAGE NO. 2
REA RD DETOUR	EXIT 57 NEXT RIGHT

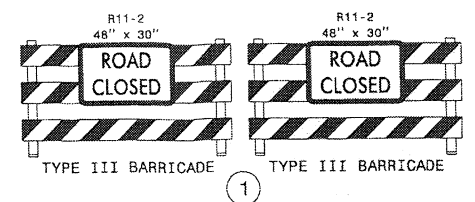
CHANGEABLE MESSAGE SIGN
D

MESSAGE NO. 1	MESSAGE NO. 2
REA RD DETOUR	LEFT AT SIGNAL

CHANGEABLE MESSAGE SIGN
E

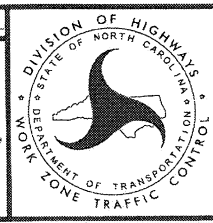
MESSAGE NO. 1	MESSAGE NO. 2
REA RD DETOUR	NEXT RIGHT TO I-485

CHANGEABLE MESSAGE SIGN
F



APPROVED: *[Signature]* DATE: 10/16/14

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 019862 W. WOOLARD JR.



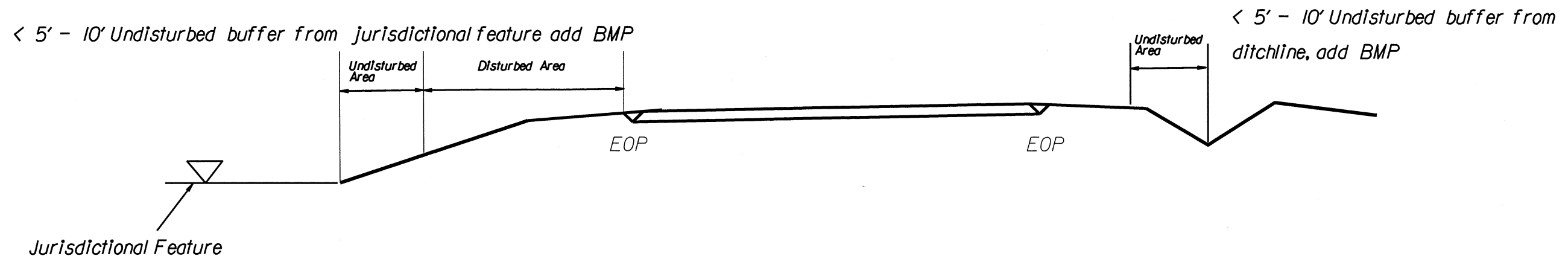
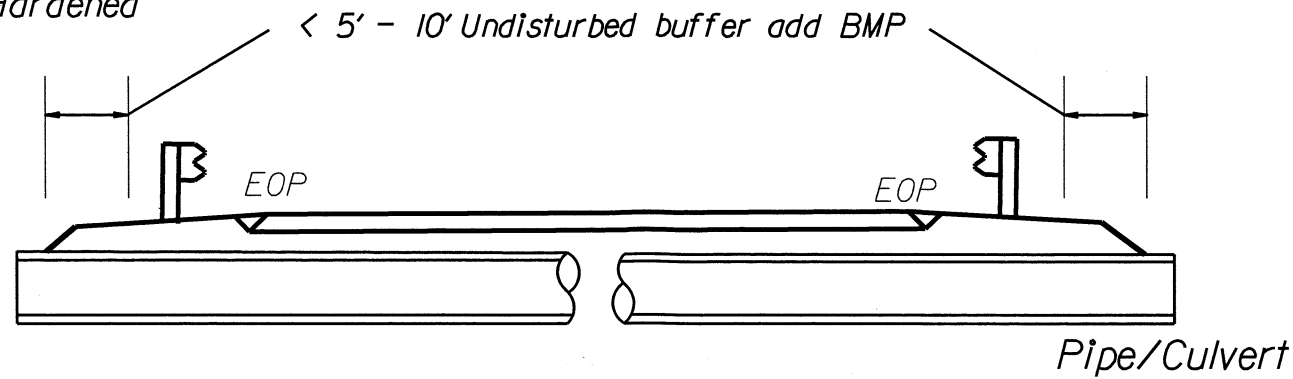
OFF-RAMP CLOSURE AT EXIT 59
FROM I-485 SOUTHBOUND
(OUTER LOOP)
TO REA RD

10/1/2014 10:11:20 AM S:\TMD\WZTC\Resurfacing\2014Resurfacing\2014 Western\2014\Div01\203501\I-5318_47038_3\FSL_Mecklenburg_I-485.mxd User:shosson

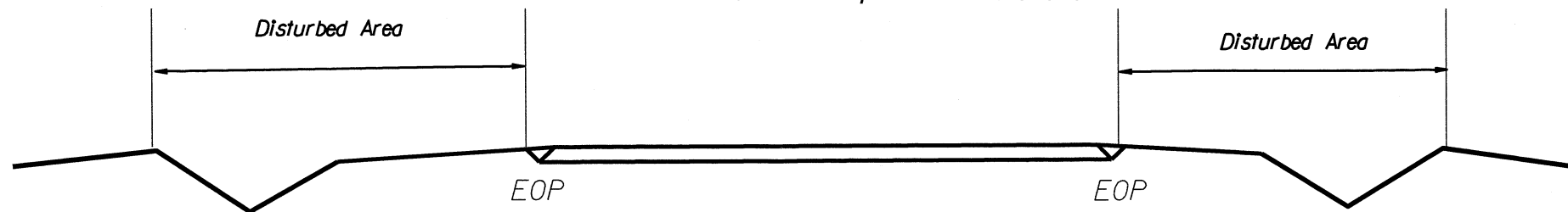
NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

BMP Options: Wattle, Silt Fence or Hardened Aggregate.

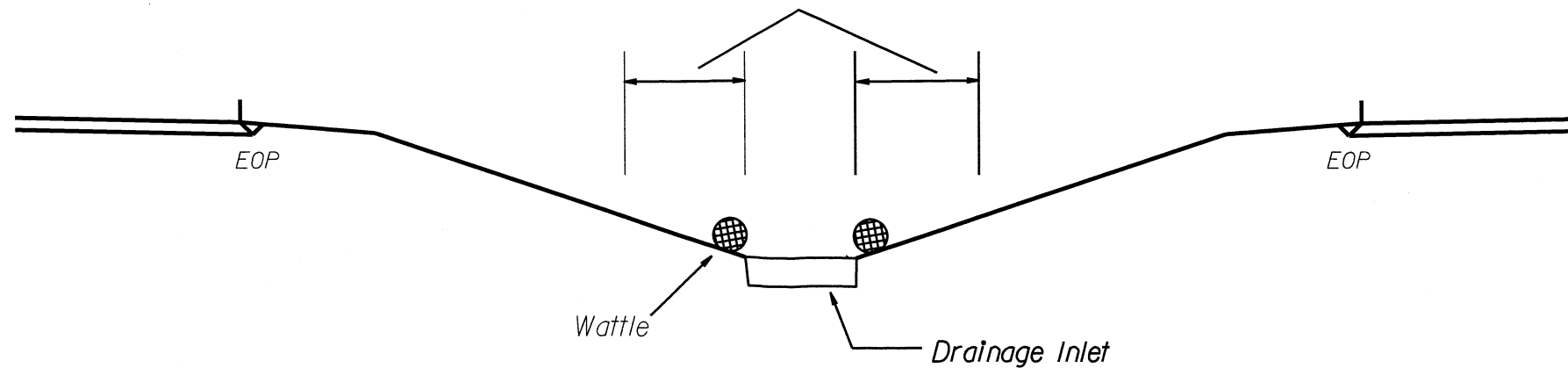
EROSION CONTROL DETAIL



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

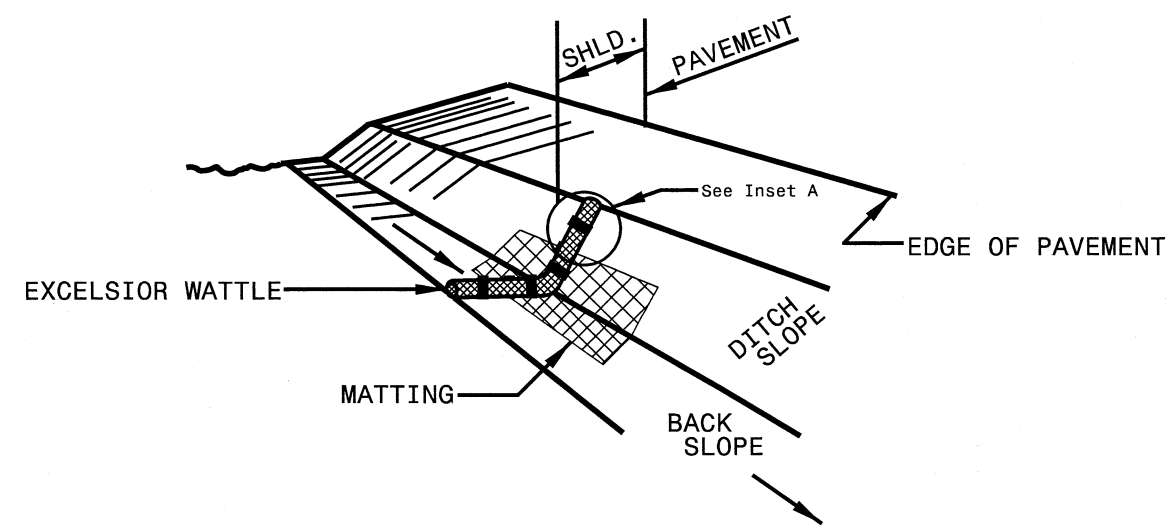


< 5' - 10' Undisturbed buffer from inlet, add wattle

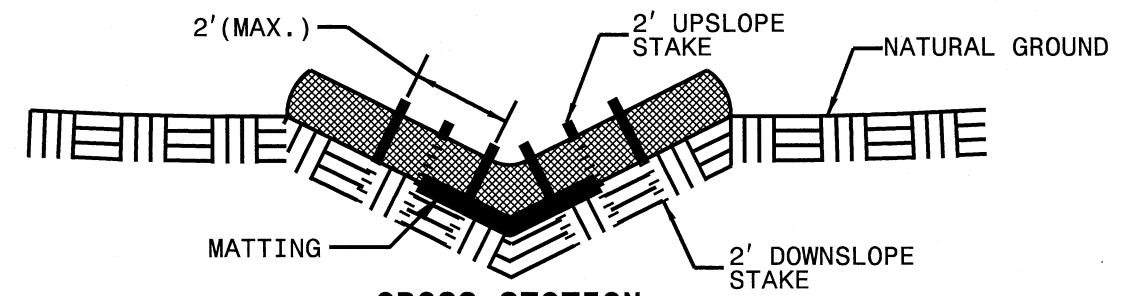


NOT TO SCALE

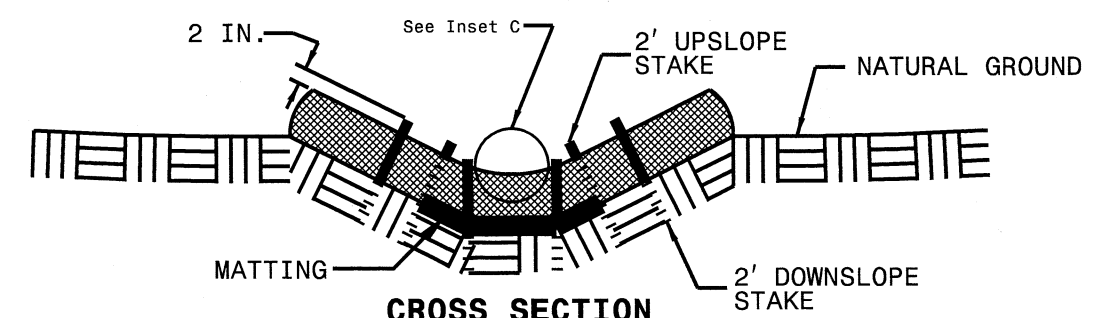
WATTLE WITH POLYACRYLAMIDE DETAIL



ISOMETRIC VIEW



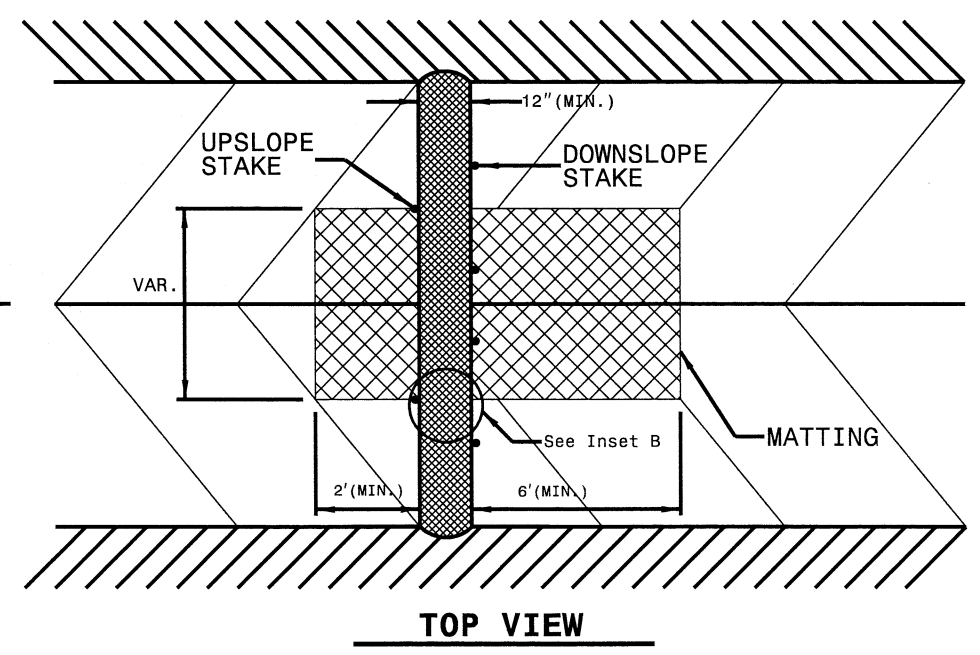
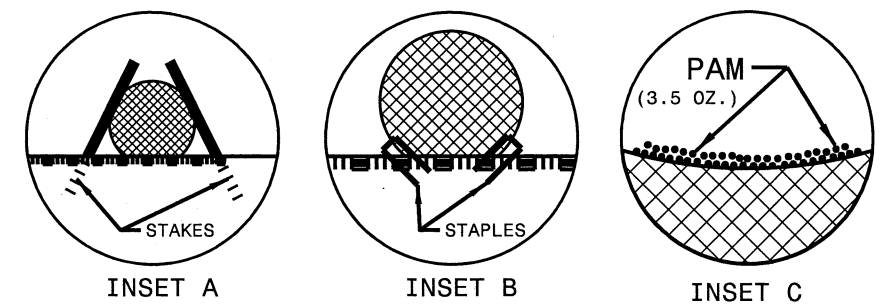
**CROSS SECTION
VEE DITCH**



**CROSS SECTION
TRAPEZOIDAL DITCH**

NOTES:

- USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.
- USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. CROSS SECTION.
- 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.
- PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.
- INITIALLY APPLY 3.5 OUNCES OF ANIONIC OR NEUTRALLY CHARGED POLYACRYLAMIDE (PAM) OVER WATTLE WHERE WATER WILL FLOW AND AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



TOP VIEW