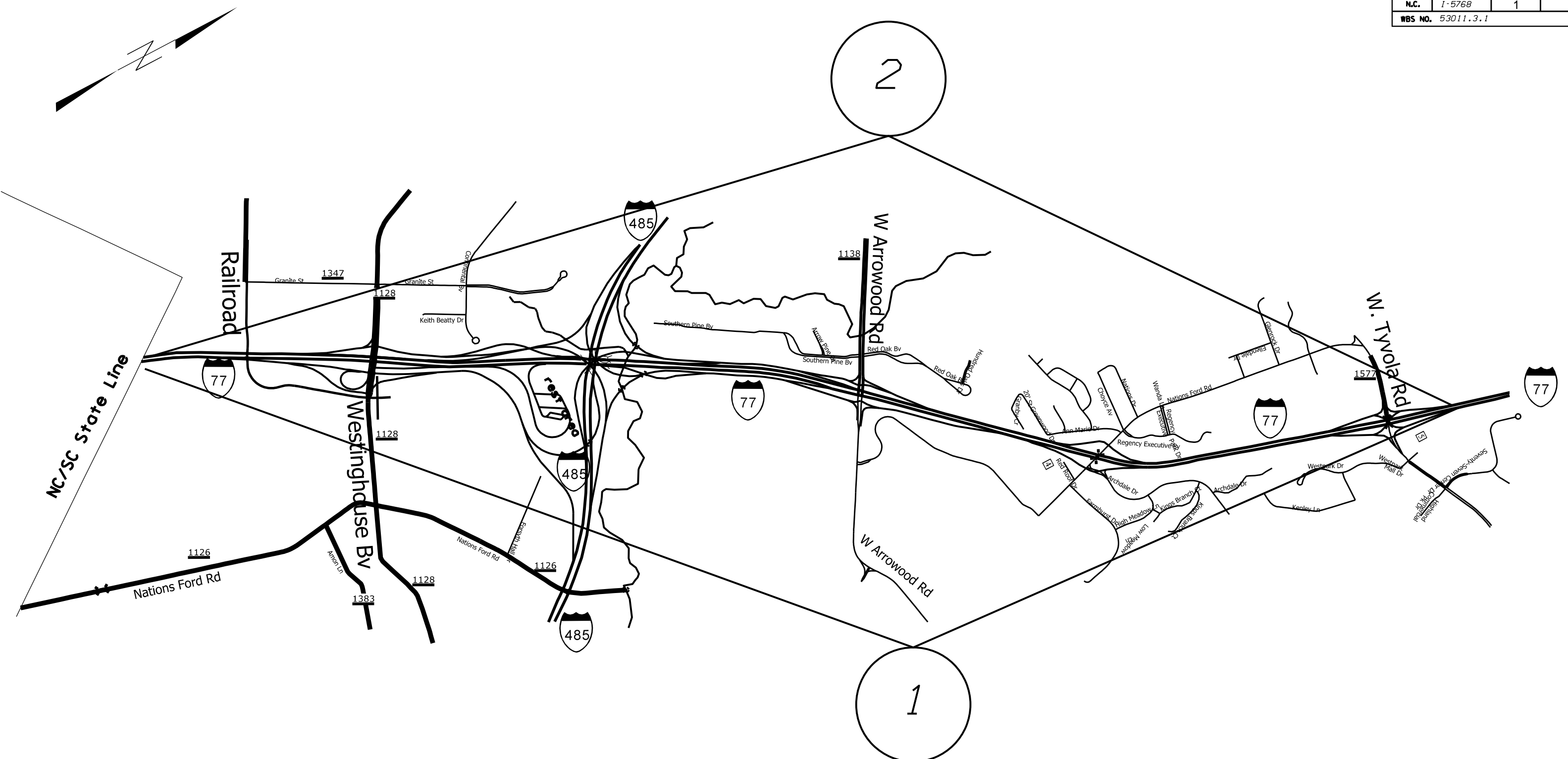


STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5768	1	
WBS NO. 53011.3.1			




MAP

- # 1 I-77 NORTHBOUND
- # 2 I-77 SOUTHBOUND

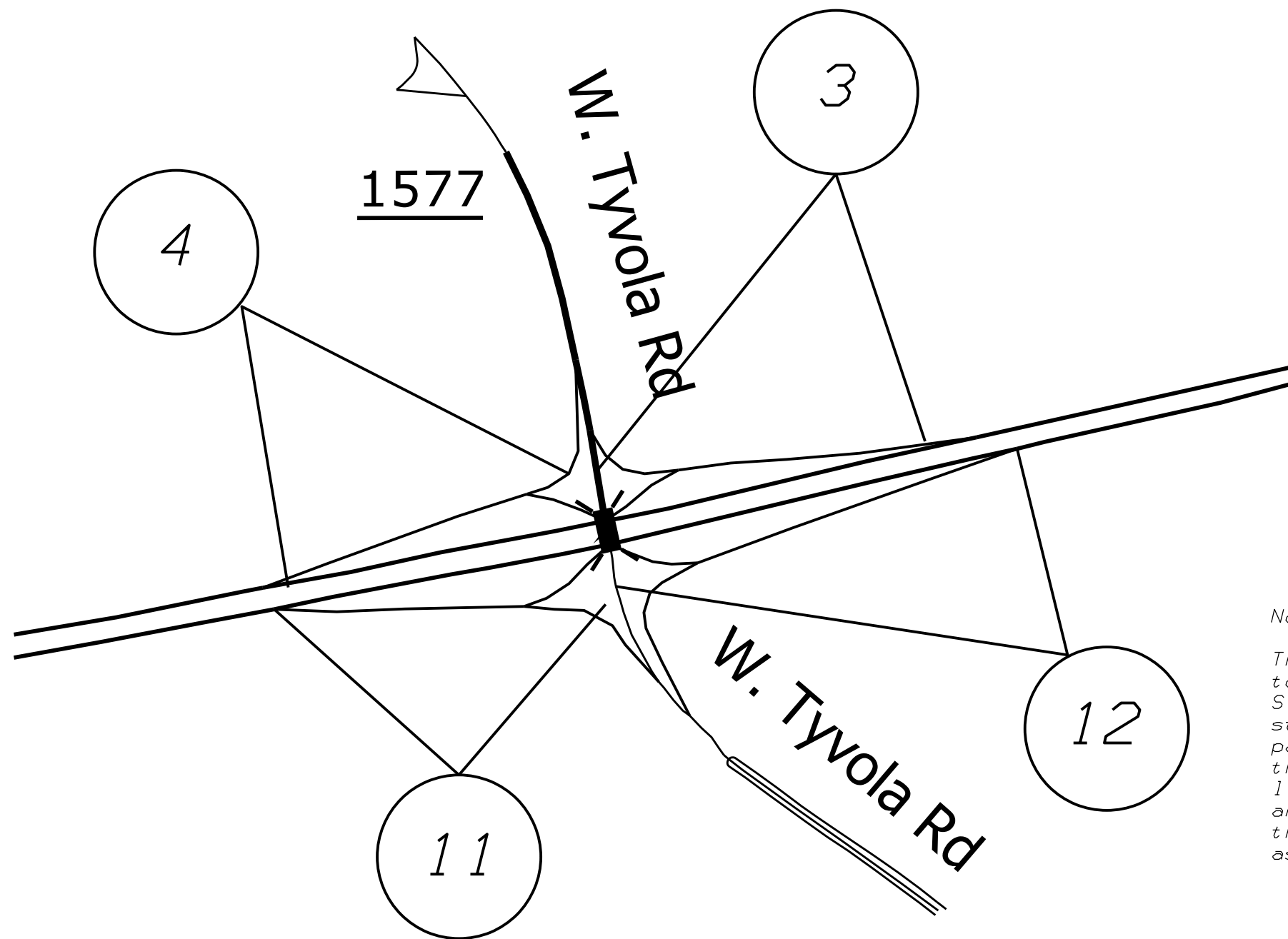
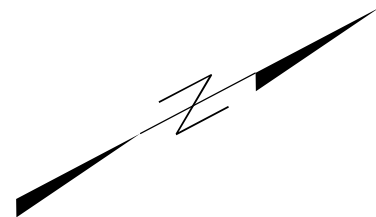
DESCRIPTION

FROM SC/NC STATE LINE TO NB ON RAMP
FROM SR 1577 W. TYVOLA RD MM 5.3

FROM SB EXIT RAMP TO SR 1577 W. TYVOLA
RD MM 5.3 TO NC/SC STATE LINE

I-5768 I-77 Pavement Preservation		
SCALE	-1A-	
DATE	8/16	
DWG. BY	TJP	
DESIGN BY	TJP	
APPROVED	WAT	
		REVISIONS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5768	2	
WBS NO. 53011.3.1			




Note:

The Tyvola Rd ramps culminate on the top of a concrete bridge deck in a Single Point Urban Interchange (SPUI) style intersection. Part of the pavement markings for the ramp are on this concrete bridge deck. There are line items in this contract to remove and replace the pavement markings on this concrete bridge deck of the SPUI as needed.

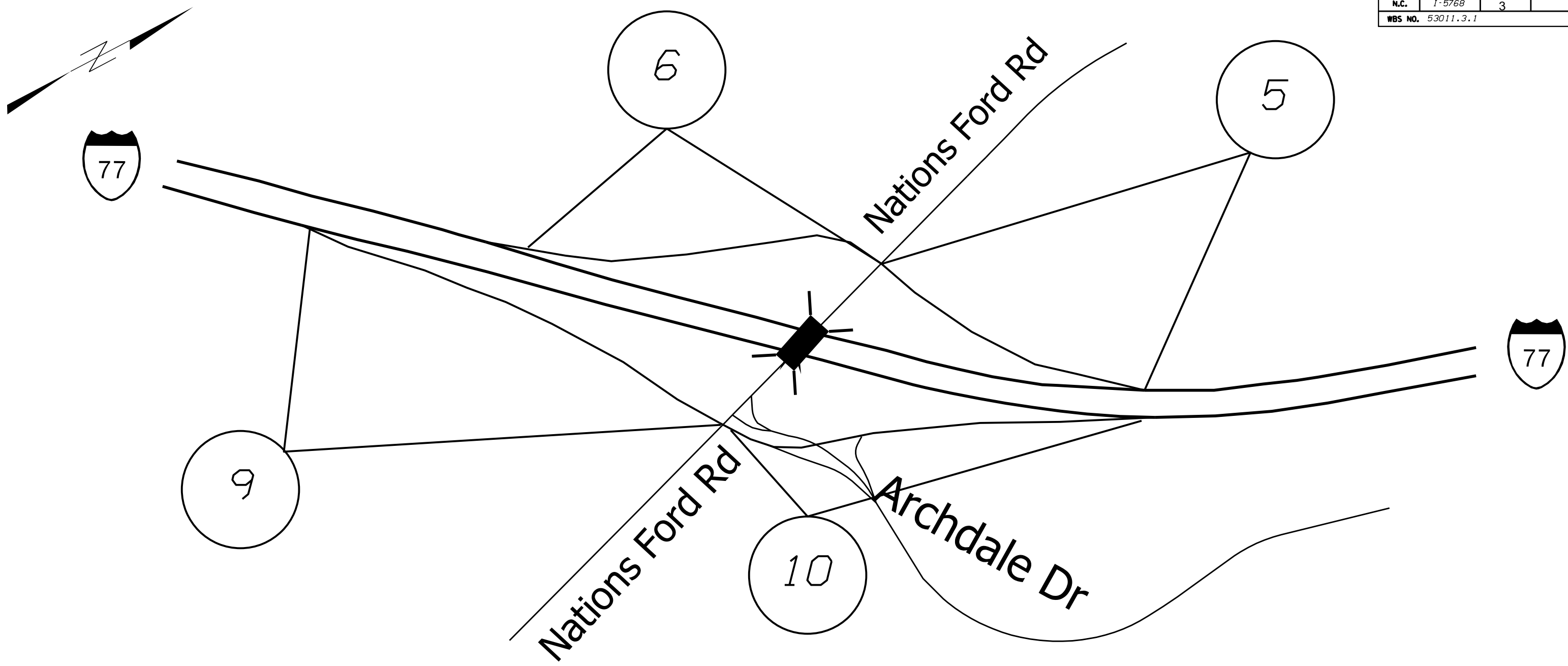
MAP

DESCRIPTION

- *3 I-77 SOUTHBOUND OFF RAMP TYVOLA RD INTERCHANGE FROM PHYSICAL GORE TO TYVOLA RD
- *4 I-77 SOUTHBOUND ON RAMP TYVOLA RD INTERCHANGE FROM TYVOLA RD TO PHYSICAL GORE
- *11 I-77 NORTHBOUND OFF RAMP TYVOLA RD INTERCHANGE FROM PHYSICAL GORE TO TYVOLA RD
- *12 I-77 NORTHBOUND ON RAMP TYVOLA RD INTERCHANGE FROM TYVOLA RD TO PHYSICAL GORE

I-5768 I-77 Pavement Preservation		
SCALE	-NA-	
DATE	8/16	
DWG. BY	TJP	
DESIGN BY	TJP	
APPROVED	WAT	REVISIONS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	1-5768	3	
WBS NO. 53011.3.1			




MAP

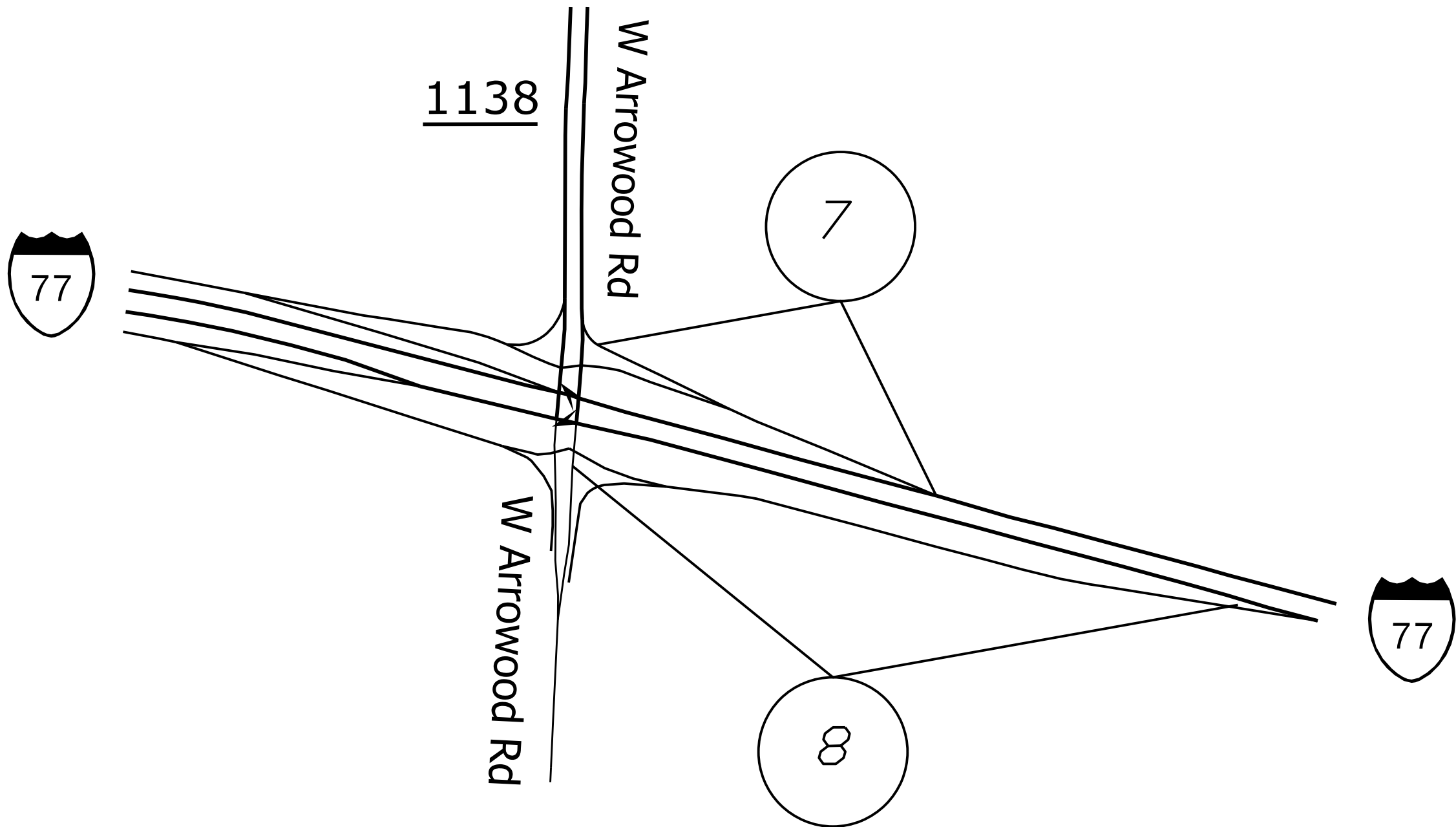
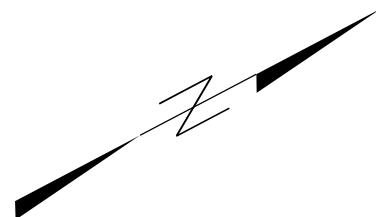
- *5 I-77 SOUTHBOUND OFF RAMP NATIONS FORD INTERCHANGE
- *6 I-77 SOUTHBOUND ON RAMP NATIONS FORD INTERCHANGE
- *9 I-77 NORTHBOUND OFF RAMP NATIONS FORD RD INTERCHANGE
- *10 I-77 NORTHBOUND ON RAMP NATIONS FORD RD INTERCHANGE

DESCRIPTION

- FROM PHYSICAL GORE TO NATIONS FORD RD
- FROM NATIONS FORD RD TO PHYSICAL GORE
- FROM PHYSICAL GORE TO NATIONS FORD RD
- FROM NATIONS FORD RD TO PHYSICAL GORE

1-5768		1-77 Pavement Preservation	
SCALE	-NA-		REVISIONS
DATE	8/16		
DWG. BY	TJP		
DESIGN BY	TJP		
APPROVED	WAT		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5768	4	
WBS NO. 53011.3.1			



MAP

DESCRIPTION

7 I-77 SOUTHBOUND OFF RAMP ARROWOOD RD INTERCHANGE

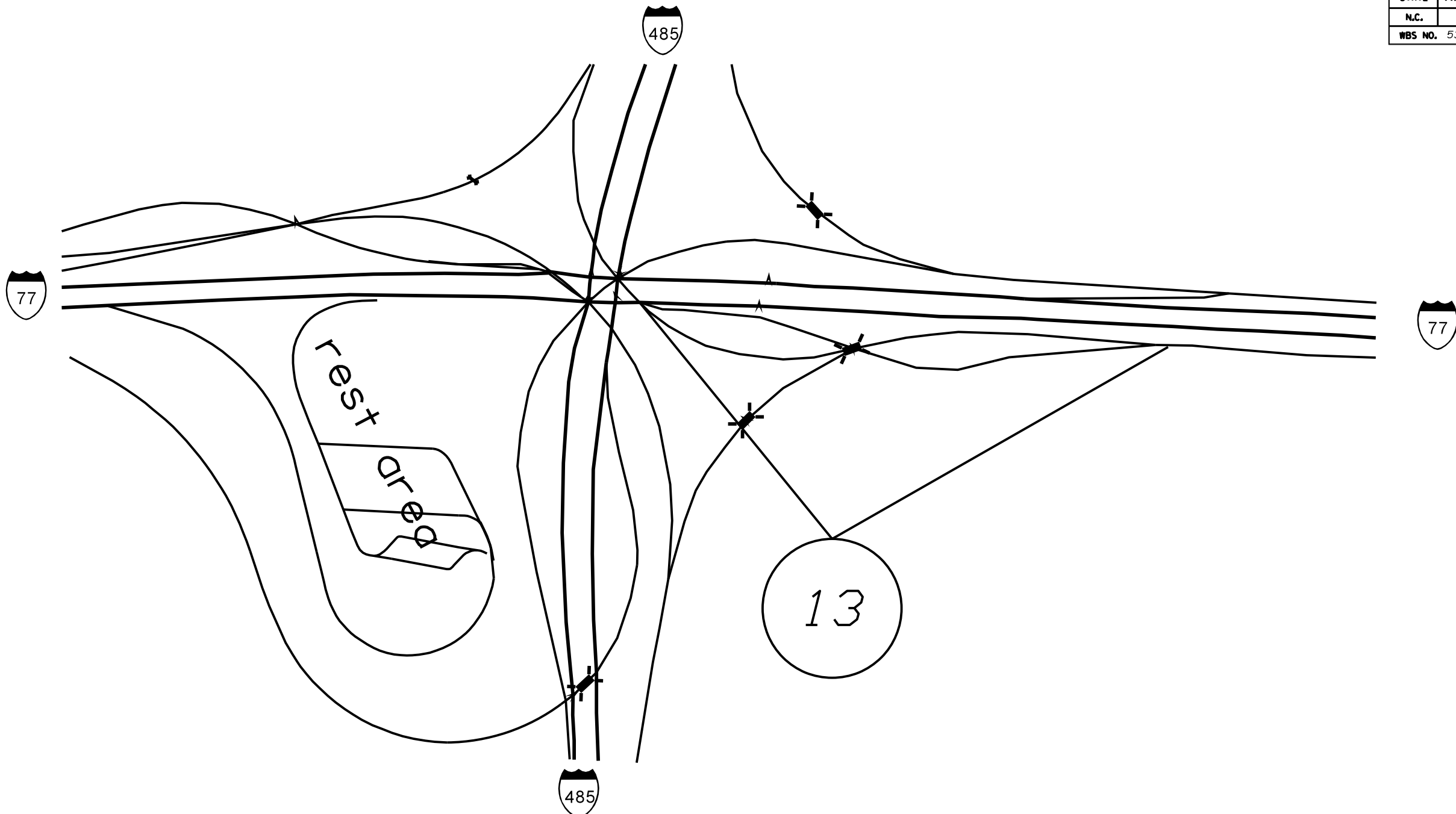
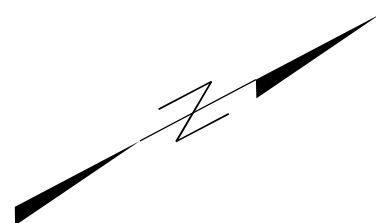
FROM PHYSICAL GORE TO ARROWOOD RD

8 I-77 NORTHBOUND ON RAMP ARROWOOD RD INTERCHANGE

FROM ARROWOOD RD TO PHYSICAL GORE

I-5768 I-77 Pavement Preservation		
SCALE	-MA-	
DATE	8/16	
DWG. BY	TJP	
DESIGN BY	TJP	
APPROVED	WAT	
		REVISIONS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	1-5768	5	
WBS NO. 53011.3.1			



MAP

DESCRIPTION

13 I-77 OFF RAMP ARROWOOD RD

FROM PHYSICAL GORE TO PAVEMENT JOINT AT
I-485 RAMP

1-5768 I-77 Pavement Preservation			
SCALE	-NA-		REVISIONS
DATE	8/16		
DWG. BY	TJP		
DESIGN BY	TJP		
APPROVED	WAT		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5768	6	
WBS NO. 5304.3J			

GENERAL NOTES:

MAINLINE TYPICALS INCLUDE ACCELERATION AND DECELERATION LANES FOR THE RAMPS UP TO THE PHYSICAL GORE. THESE TYPICALS GENERALLY DEPICT MILLING 1.5" AND THEN PAVING ASPHALT CONCRETE SURFACE COURSE S9.5D AT A DEPTH OF 2.0" FOR THE FULL WIDTH OF THE ROADWAY TO INCLUDE SHOULDERS.

THE ULTRATHIN BONDED WEARING COURSE SHOWN IN TYPICALS 1-23 AND 44-49 AND 50-52 ARE INTENDED TO BE PLACED IN THE TRAVEL LANES AND GORE AREAS BUT NOT ON THE SHOULDERS.

RAMP TYPICALS 24-43 ARE APPLICABLE BETWEEN PHYSICAL GORE AND INTERSECTING Y-LINE EDGE OF TRAVEL. ULTRATHIN BONDED WEARING COURSE IS NOT INTENDED TO BE PLACED ON THE RAMPS BETWEEN THE PHYSICAL GORE AND THE INTERSECTING Y-LINE.

MAINLINE TYPICALS 44-49 APPLY TO I-77 NORTHBOUND AND SOUTHBOUND UNDER THE BRIDGES AT I-485 INTERCHANGE AND NATIONS FORD RD INTERCHANGE. THE COMBINATION OF MILLING AND REPLACING ASPHALT PAVEMENT TO THE EXISTING GRADE IS NECESSARY TO MAINTAIN THE EXISTING BRIDGE CLEARANCE.

MAINLINE TYPICALS 50-52 APPLY TO AREA 100 FEET BEFORE AND AFTER THE BRIDGES TO MAKE A SMOOTH TRANSITION FROM 1.5" TO 2.0" MILLING IN ORDER TO MAKE FLUSH TIE-IN WITH BRIDGE.

INCIDENTAL MILLING SHALL BE USED FOR BUT JOINTS. THE TRANSITION PERIOD FOR BUT JOINTS SHALL BE A LONGITUDINAL LENGTH RATE OF 50' PER 1" OF MILLING DEPTH UNLESS OTHERWISE SPECIFIED.

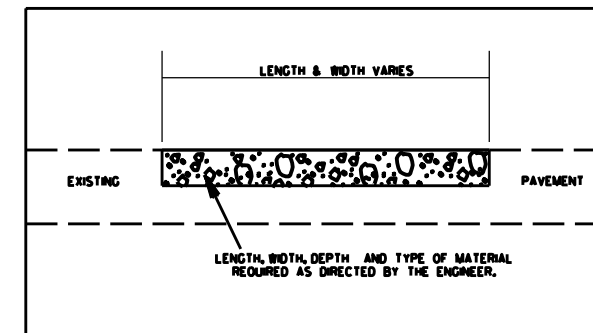
THE MILLING AND PAVEMENT STRUCTURE OF THE MAINLINE TRAVEL LANES SHALL BE THE CONTROLLING GRADE. ALL OTHER MILLING AND PAVING SHALL TIE-IN ACCORDINGLY.

THE MAINLINE CROSS SECTION OF S9.5D SHALL BE PLACED IN SUCH A MANNER THAT THE MAT, AND EACH INDIVIDUAL PULL, WILL BE FLUSH WITH EACH OTHER ACROSS THE ENTIRE WIDTH OF THE ROADWAY TO INCLUDE SHOULDERS. THE TRAVEL LANES WEARING SURFACE OF ULTRATHIN BONDED WEARING COURSE SHALL BE PLACED IN SUCH A MANNER THAT IT WILL EXIST AT AN ELEVATION APPROXIMATELY 5/8" HIGHER THAN THE SURROUNDING SHOULDER PAVEMENT.

THE EXISTING PAVEMENT STRUCTURE CONSISTS OF AN OPEN GRADED FRICTION COURSE OVER ASPHALT CONCRETE PAVEMENT OVER CONCRETE PAVEMENT.

SHOULDER RECONSTRUCTION ON THE MAINLINE WILL BE PLACED AS DIRECTED BY THE ENGINEER.

PATCHING DETAIL

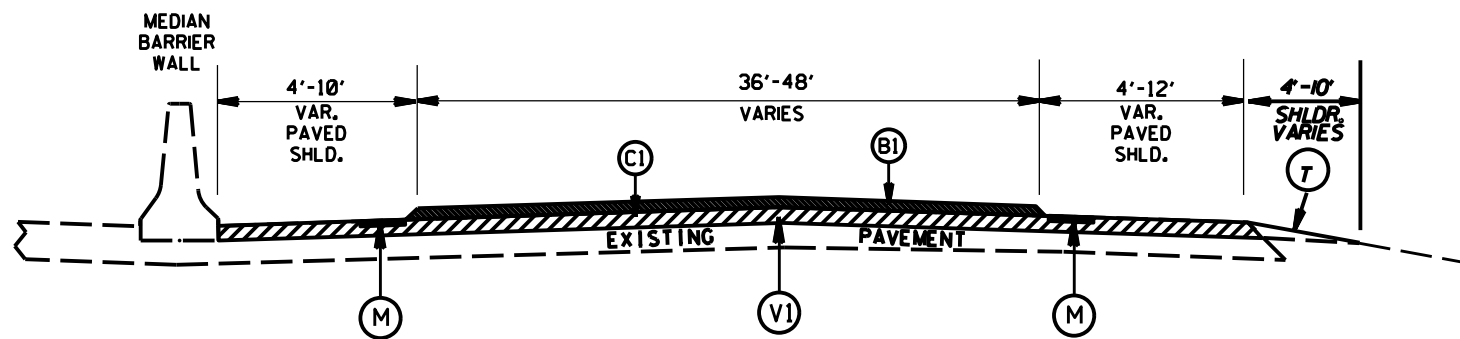


PAVEMENT SCHEDULE	
B1	PROP. APPROX. 5/8" ULTRATHIN HOT MIX ASPHALT COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C1	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V1	MILLING 1.5" DEPTH
V2	PROFILE MILLING, 0" to 1.5" DEPTH
V3	PROFILE MILLING, 1.5" to 2.0" DEPTH
V4	MILLING, 2.0" DEPTH
V5	MILLING, 2.5" DEPTH
T	SHOULDER RECONSTRUCTION
M	MILLED RUMBLE STRIPS

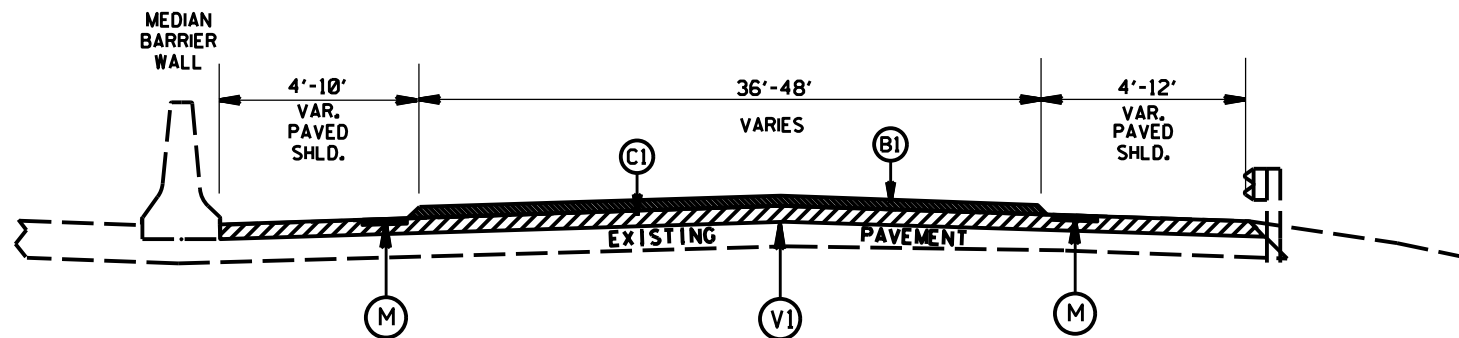
I-5768 Interstate 77 Pavement Rehabilitation

SCALE	-NA-		REVISIONS
DATE	8/16		
DWG. BY	TJP		
DESIGN BY	TJP		
APPROVED	WAT		

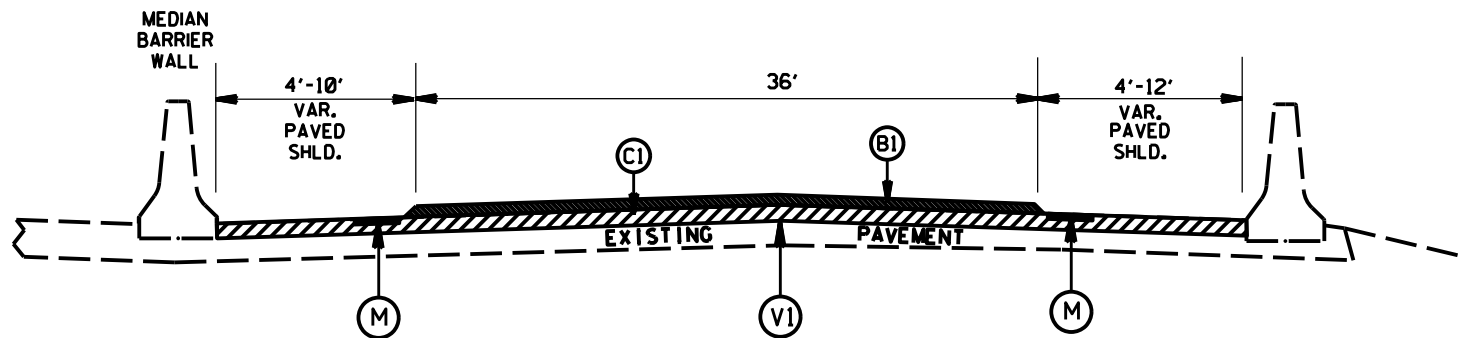
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5768	7	
WBS NO.	5304.3.1		



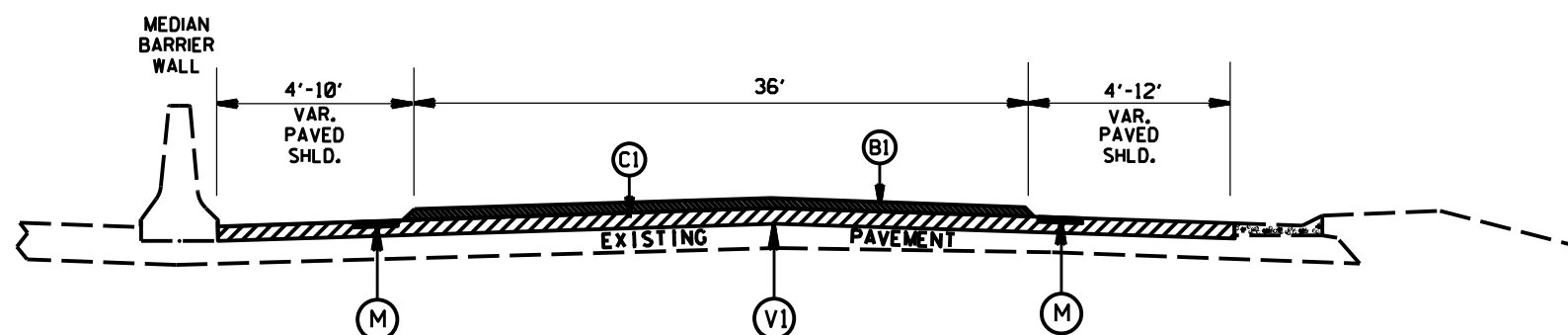
TYPICAL SECTION NO.1



TYPICAL SECTION NO.2



TYPICAL SECTION NO.3



TYPICAL SECTION NO.4

PAVEMENT SCHEDULE	
B1	PROP. APPROX. 5/8" ULTRATHIN HOT MIX ASPHALT COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C1	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V1	MILLING 1.5" DEPTH
V2	PROFILE MILLING, 0" to 1.5" DEPTH
V3	PROFILE MILLING, 1.5" to 2.0" DEPTH
V4	MILLING, 2.0" DEPTH
V5	MILLING, 2.5" DEPTH
T	SHOULDER RECONSTRUCTION
M	MILLED RUMBLE STRIPS

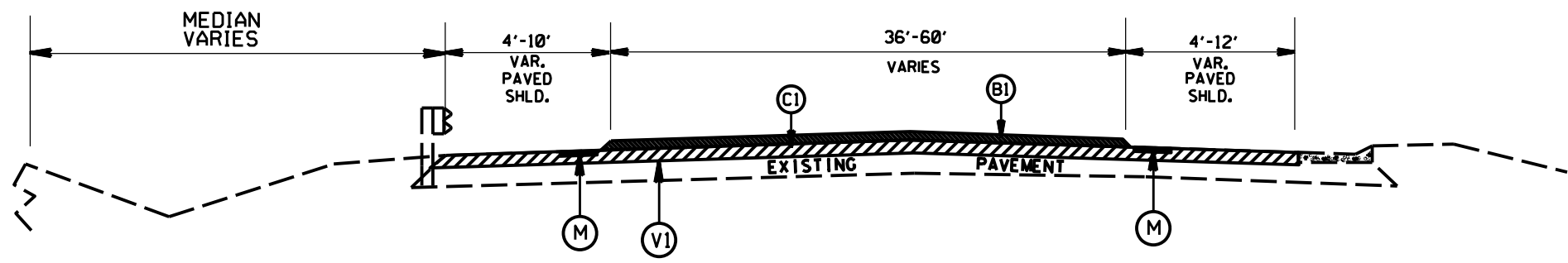
I-5768 Interstate 77 Pavement Rehabilitation

SCALE -NA-
 DATE 8/16
 DWG. BY TJP
 DESIGN BY TJP
 APPROVED WAT

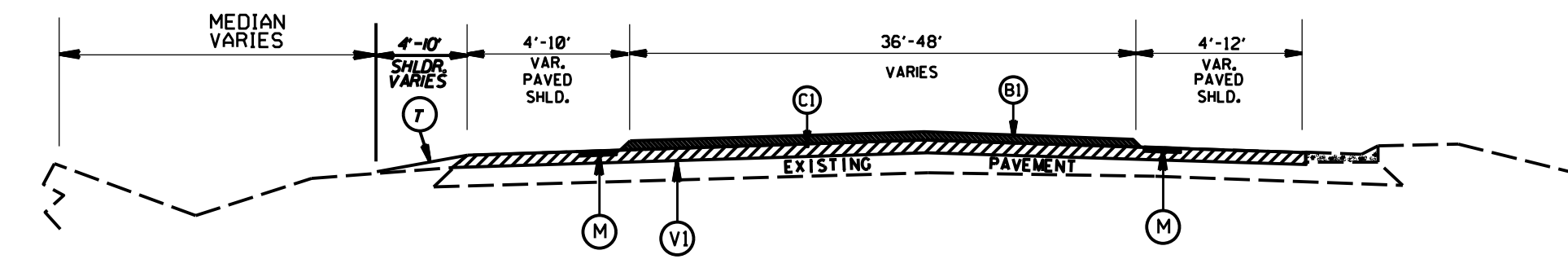


REVISIONS	

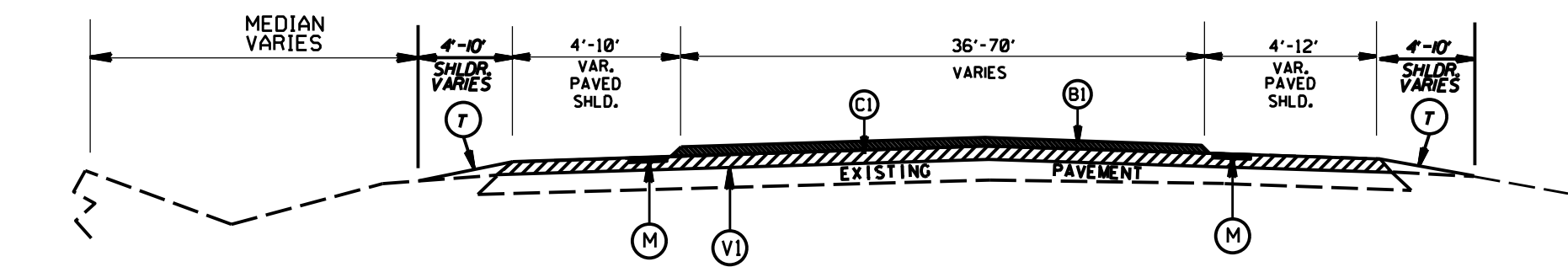
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5768	8	
WBS NO.	5304.3.1		



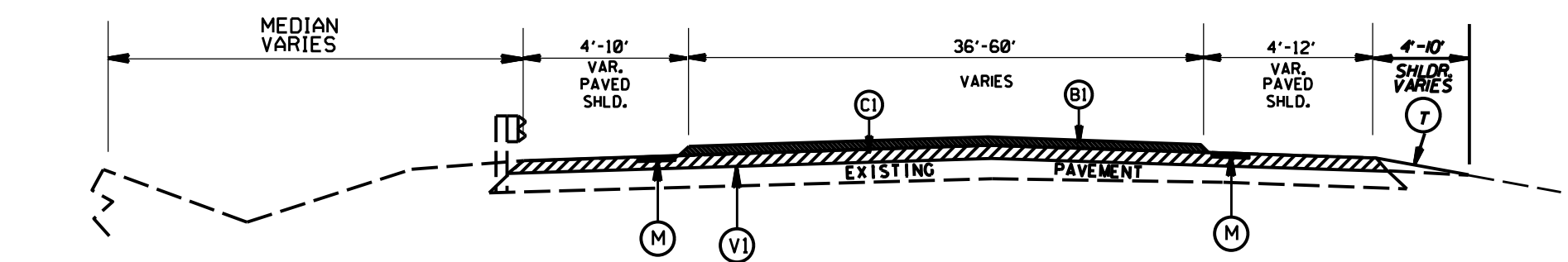
TYPICAL SECTION NO.5



TYPICAL SECTION NO.6



TYPICAL SECTION NO.7



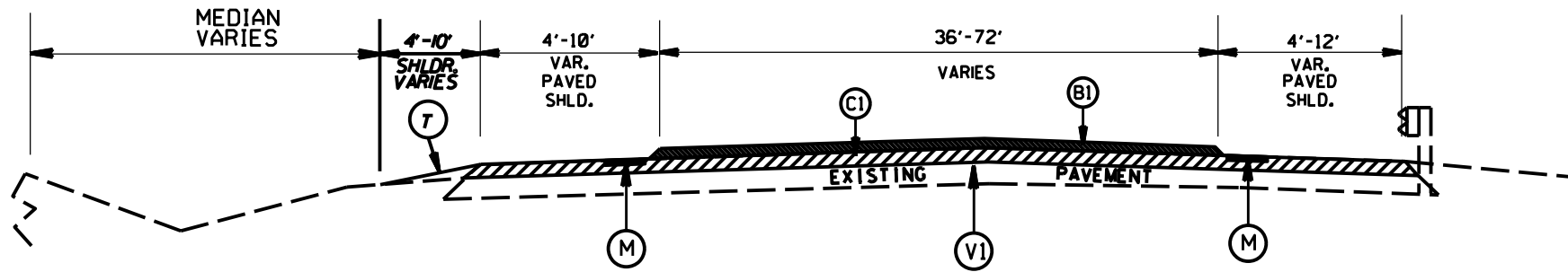
TYPICAL SECTION NO.8

PAVEMENT SCHEDULE	
B1	PROP. APPROX. 5/8" ULTRATHIN HOT MIX ASPHALT COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C1	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V1	MILLING 1.5" DEPTH
V2	PROFILE MILLING, 0" to 1.5" DEPTH
V3	PROFILE MILLING, 1.5" to 2.0" DEPTH
V4	MILLING, 2.0" DEPTH
V5	MILLING, 2.5" DEPTH
T	SHOULDER RECONSTRUCTION
M	MILLED RUMBLE STRIPS

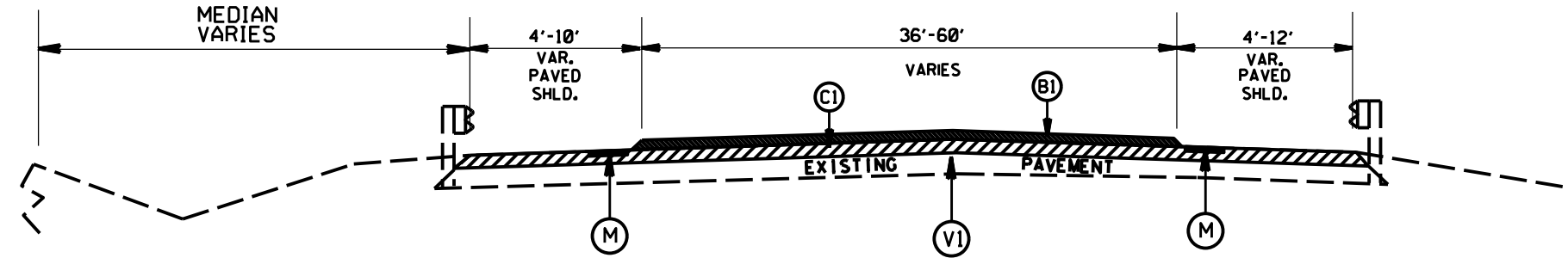
I-5768 Interstate 77 Pavement Rehabilitation

SCALE	-NA-		REVISIONS
DATE	8/16		
DWG. BY	TJP		
DESIGN BY	TJP		
APPROVED	WAT		

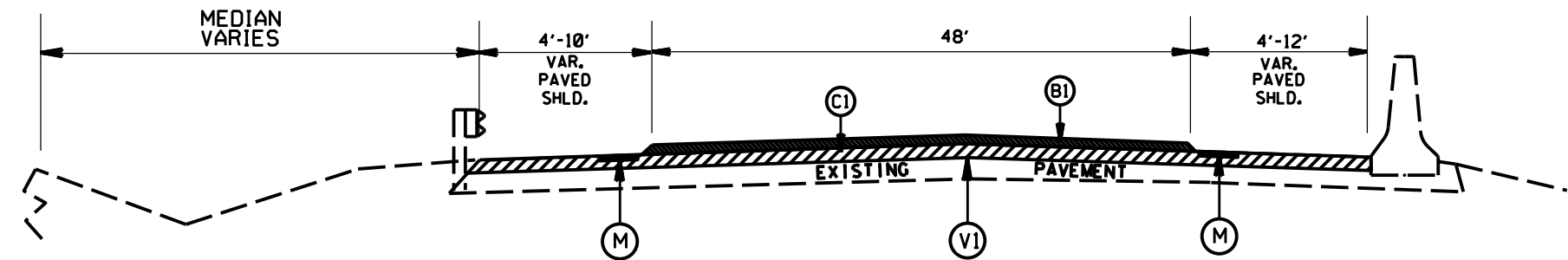
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5768	9	
WBS NO.	530L3J		



TYPICAL SECTION NO.9



TYPICAL SECTION NO.10



TYPICAL SECTION NO.11

PAVEMENT SCHEDULE	
B1	PROP. APPROX. 5/8" ULTRATHIN HOT MIX ASPHALT COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C1	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V1	MILLING 1.5" DEPTH
V2	PROFILE MILLING, 0" to 1.5" DEPTH
V3	PROFILE MILLING, 1.5" to 2.0" DEPTH
V4	MILLING, 2.0" DEPTH
V5	MILLING, 2.5" DEPTH
T	SHOULDER RECONSTRUCTION
M	MILLED RUMBLE STRIPS

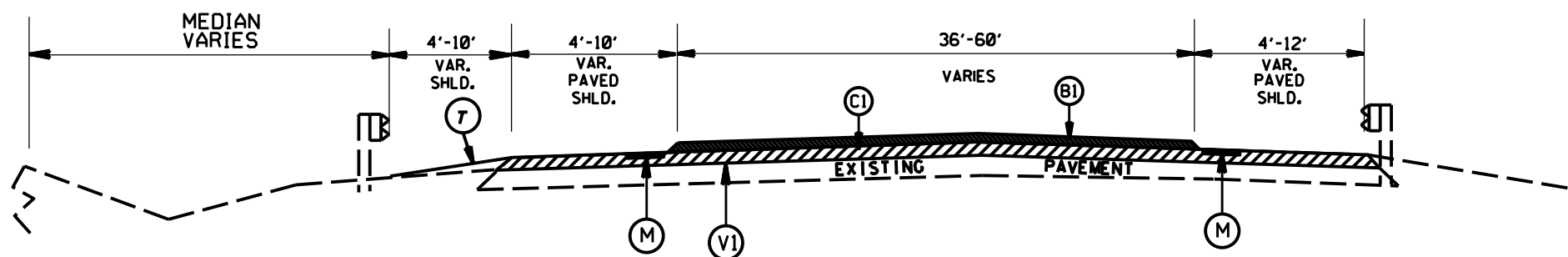
I-5768 Interstate 77 Pavement Rehabilitation

SCALE	-NA-
DATE	8/16
DWG. BY	TJP
DESIGN BY	TJP
APPROVED	WAT

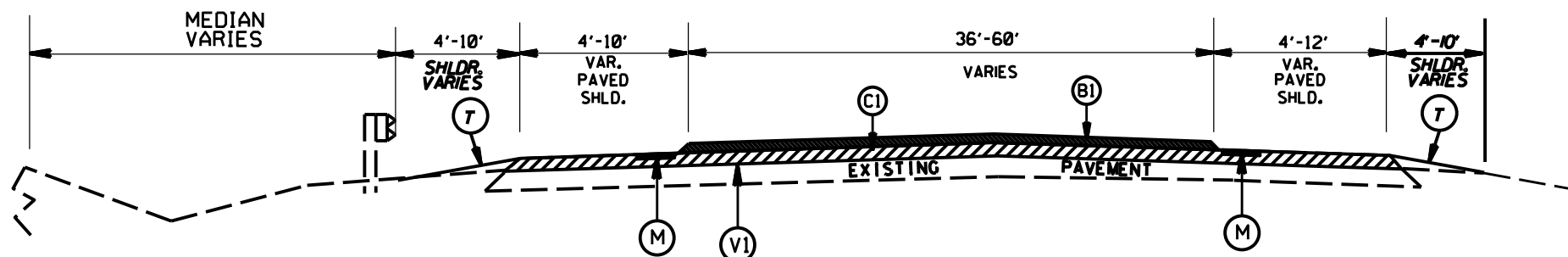


REVISIONS	

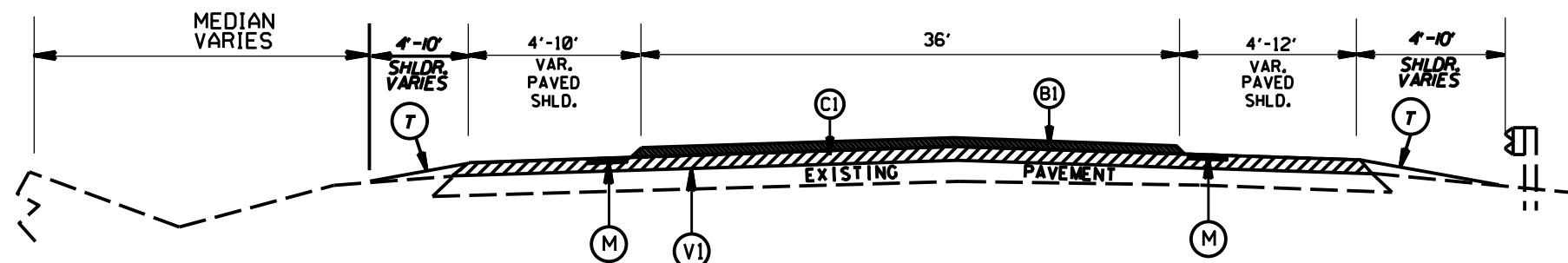
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5768	10	
WBS NO.	530W.3J		



TYPICAL SECTION NO.12



TYPICAL SECTION NO.13



TYPICAL SECTION NO.14

PAVEMENT SCHEDULE	
B1	PROP. APPROX. 5/8" ULTRATHIN HOT MIX ASPHALT COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C1	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V1	MILLING 1.5" DEPTH
V2	PROFILE MILLING, 0" to 1.5" DEPTH
V3	PROFILE MILLING, 1.5" to 2.0" DEPTH
V4	MILLING, 2.0" DEPTH
V5	MILLING, 2.5" DEPTH
T	SHOULDER RECONSTRUCTION
M	MILLED RUMBLE STRIPS

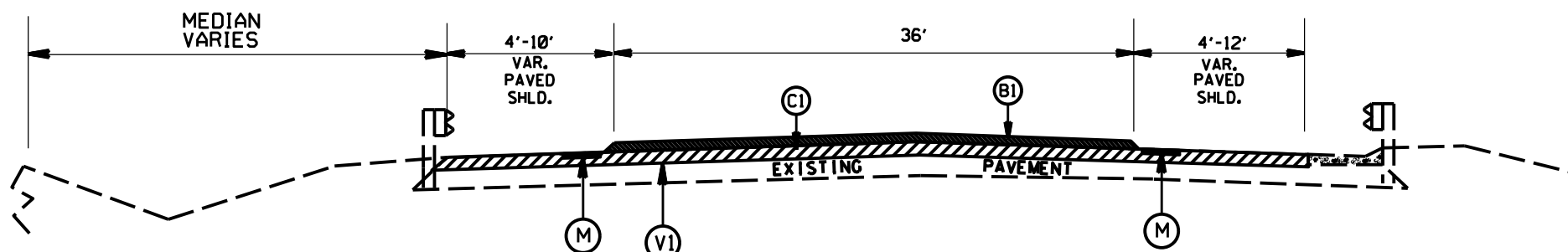
I-5768 Interstate 77 Pavement Rehabilitation

SCALE	-NA-
DATE	8/16
DWG. BY	TJP
DESIGN BY	TJP
APPROVED	WAT

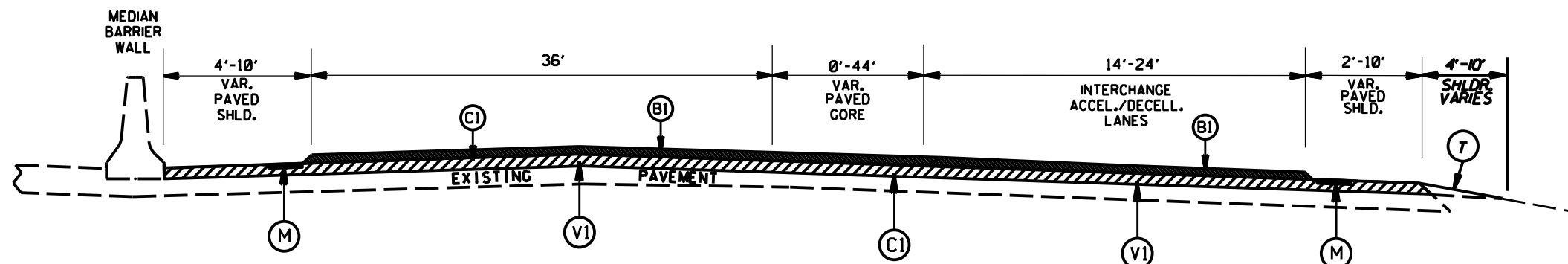


REVISIONS	

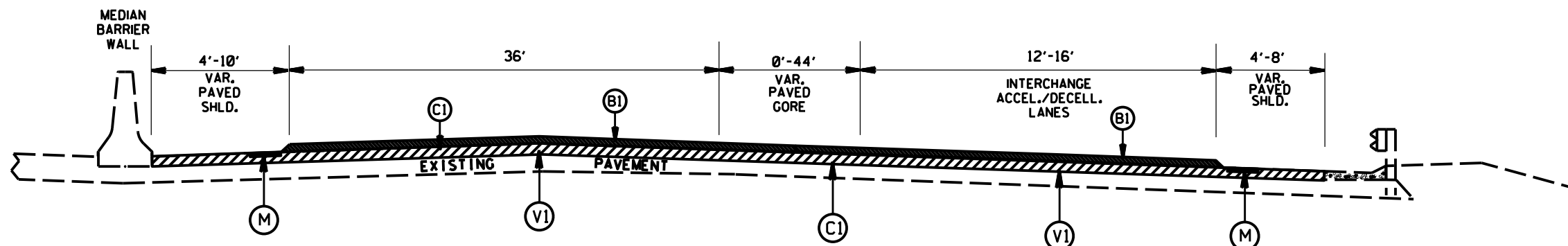
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5768	11	
WBS NO.	530W.3J		



TYPICAL SECTION NO.15



TYPICAL SECTION NO.16



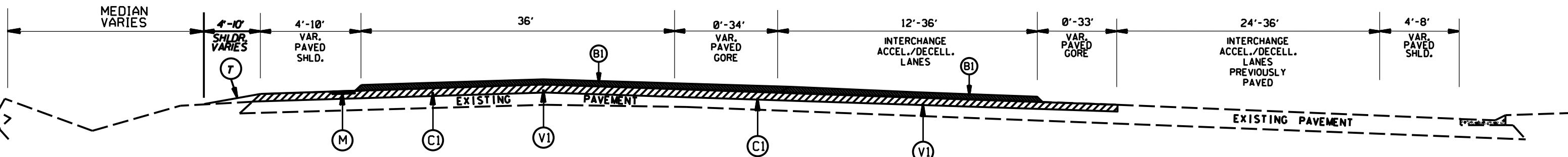
TYPICAL SECTION NO.17

PAVEMENT SCHEDULE	
B1	PROP. APPROX. 5/8" ULTRATHIN HOT MIX ASPHALT COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C1	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V1	MILLING 1.5" DEPTH
V2	PROFILE MILLING, 0" TO 1.5" DEPTH
V3	PROFILE MILLING, 1.5" TO 2.0" DEPTH
V4	MILLING, 2.0" DEPTH
V5	MILLING, 2.5" DEPTH
T	SHOULDER RECONSTRUCTION
M	MILLED RUMBLE STRIPS

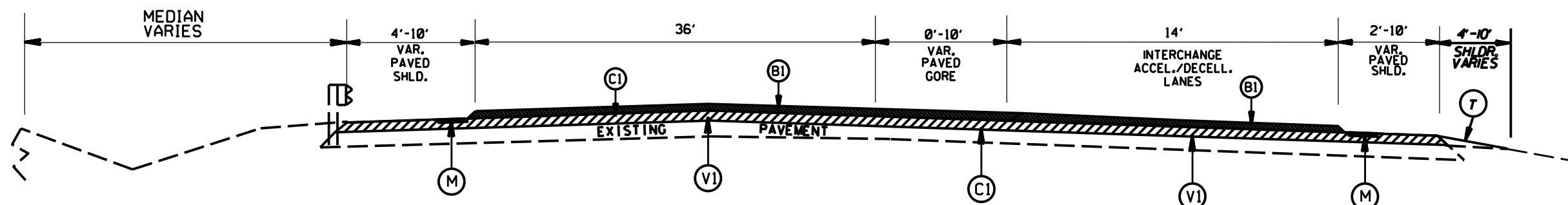
I-5768 Interstate 77 Pavement Rehabilitation

SCALE	-NA-		REVISIONS
DATE	8/16		
DWG. BY	TJP		
DESIGN BY	TJP		
APPROVED	WAT		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5768	12	
WBS NO.	530IL3J		



TYPICAL SECTION NO.18



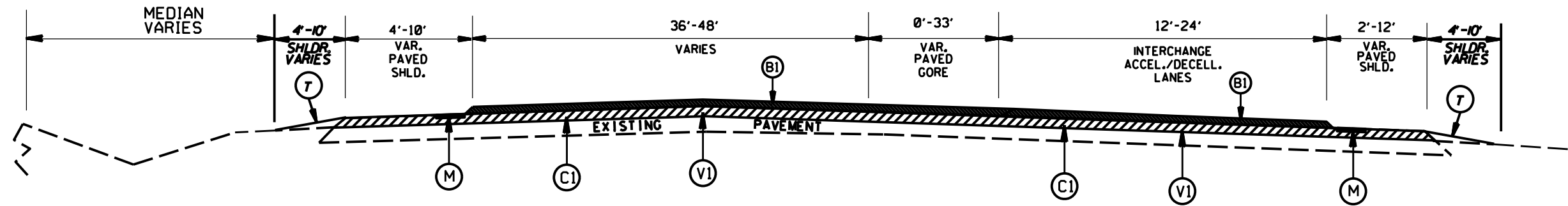
TYPICAL SECTION NO.19

PAVEMENT SCHEDULE	
B1	PROP. APPROX. 5/8" ULTRATHIN HOT MIX ASPHALT COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C1	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
V1	MILLING 1.5" DEPTH
T	SHOULDER RECONSTRUCTION
M	MILLED RUMBLE STRIPS

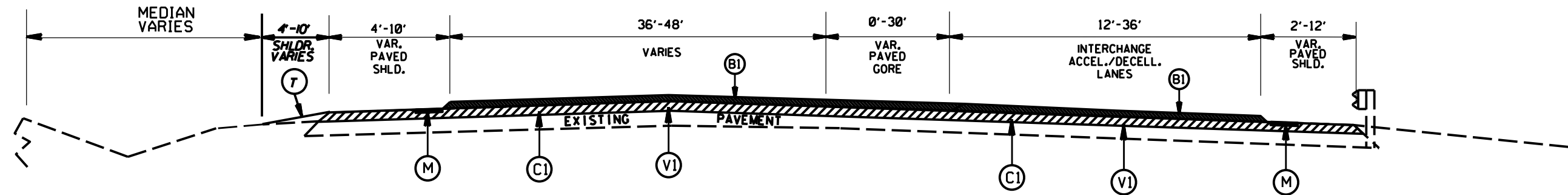
I-5768 Interstate 77 Pavement Rehabilitation

SCALE	-NA-		REVISIONS
DATE	8/16		
DWG. BY	TJP		
DESIGN BY	TJP		
APPROVED	WAT		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5768	13	
WBS NO.	530H.3J		



TYPICAL SECTION NO.20



TYPICAL SECTION NO.21

PAVEMENT SCHEDULE	
B1	PROP. APPROX. 5/8" ULTRATHIN HOT MIX ASPHALT COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C1	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
V1	MILLING 1.5" DEPTH
T	SHOULDER RECONSTRUCTION
M	MILLED RUMBLE STRIPS

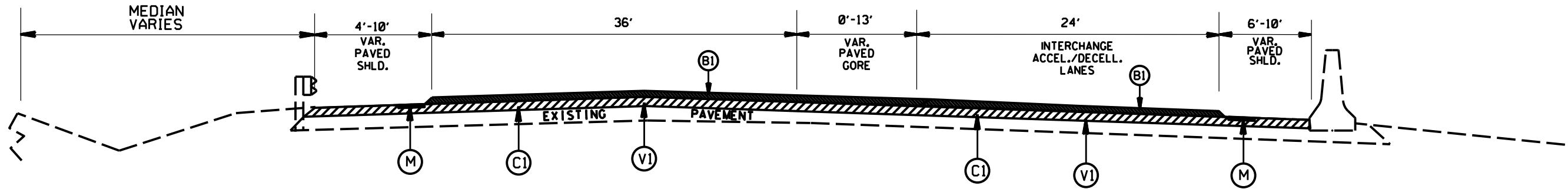
I-5768 Interstate 77 Pavement Rehabilitation

SCALE	-NA-
DATE	8/16
DWG. BY	TJP
DESIGN BY	TJP
APPROVED	WAT

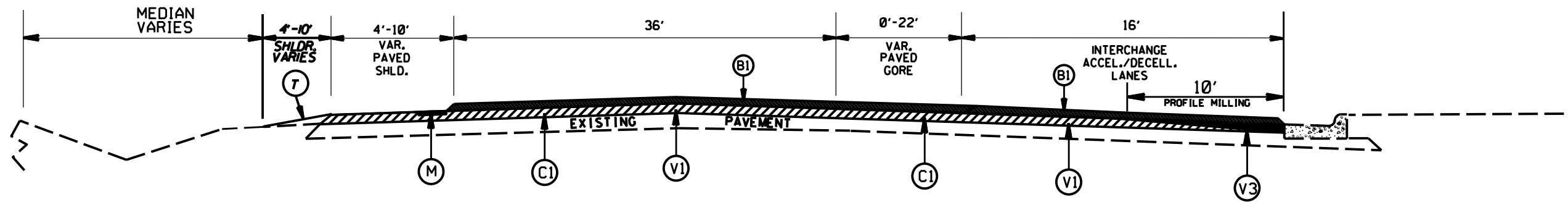


REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5768	14	
WBS NO.	530H.3.I		



TYPICAL SECTION NO.22



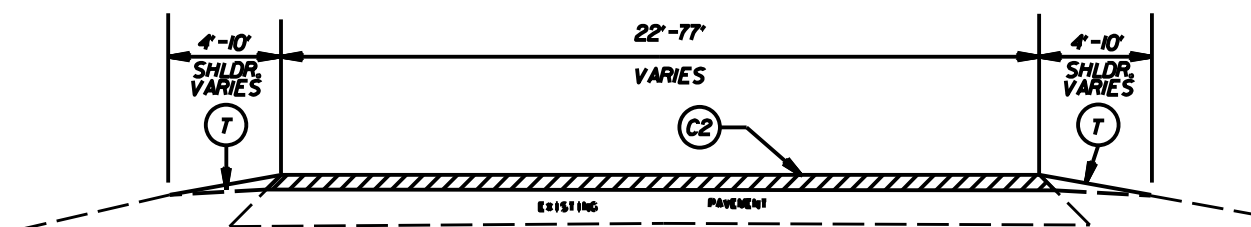
TYPICAL SECTION NO.23
REST AREA ON RAMP NB I-77

PAVEMENT SCHEDULE	
B1	PROP. APPROX. 5/8" ULTRATHIN HOT MIX ASPHALT COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C1	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
V1	MILLING 1.5" DEPTH
V3	PROFILE MILLING, 1.5" to 2.0" DEPTH
T	SHOULDER RECONSTRUCTION
M	MILLED RUMBLE STRIPS

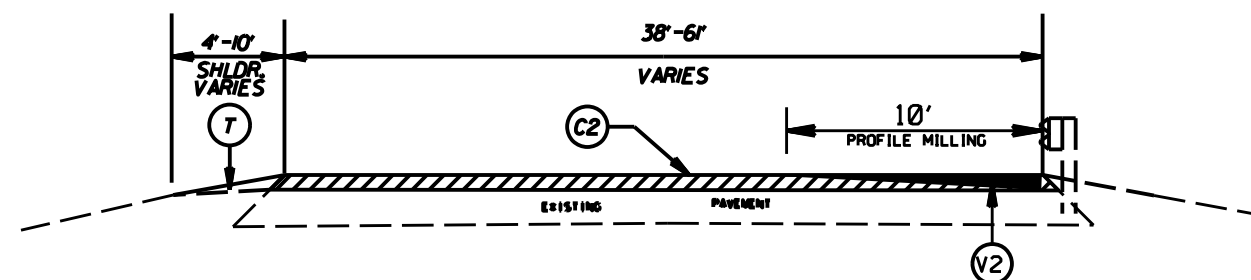
I-5768 Interstate 77 Pavement Rehabilitation

SCALE	-NA-		REVISIONS
DATE	8/16		
DWG. BY	TJP		
DESIGN BY	TJP		
APPROVED	WAT		

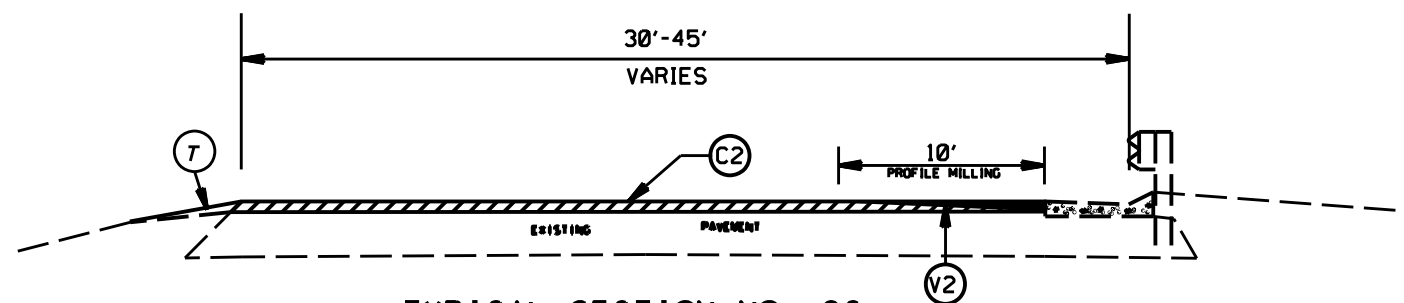
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5768	15	
WBS NO.	530M.3J		



TYPICAL SECTION NO. 24



TYPICAL SECTION NO. 25



TYPICAL SECTION NO. 26

PAVEMENT SCHEDULE

B1	PROP. APPROX. 5/8" ULTRATHIN HOT MIX ASPHALT COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C1	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V1	MILLING 1.5" DEPTH
V2	PROFILE MILLING, 0" to 1.5" DEPTH
V3	PROFILE MILLING, 1.5" to 2.0" DEPTH
V4	MILLING, 2.0" DEPTH
V5	MILLING, 2.5" DEPTH
T	SHOULDER RECONSTRUCTION
M	MILLED RUMBLE STRIPS

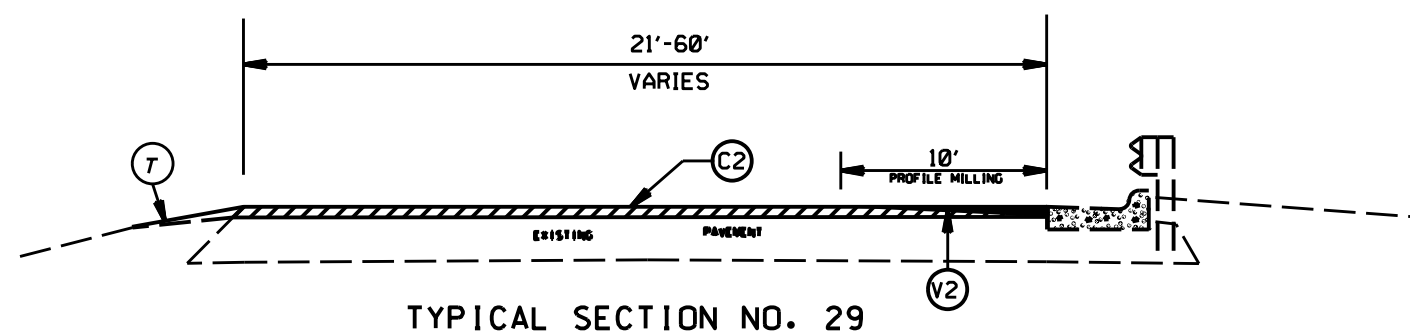
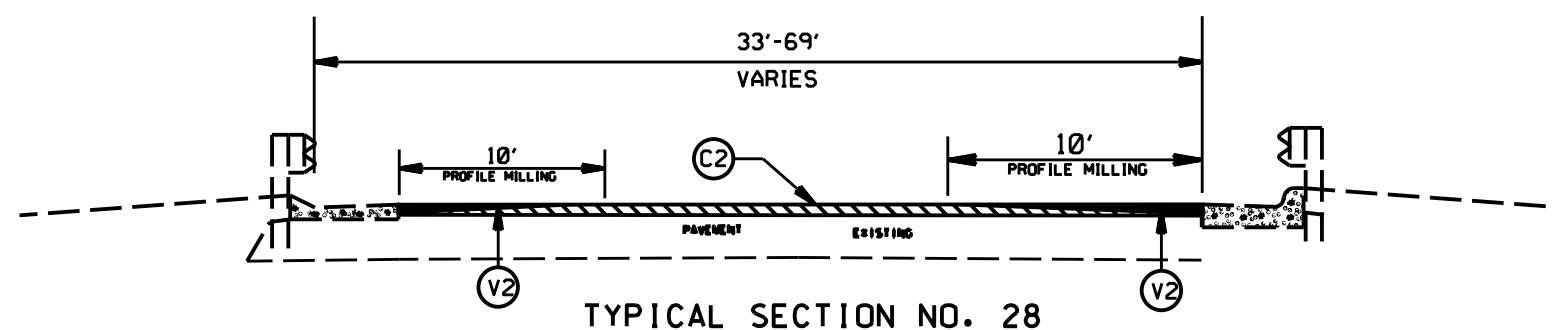
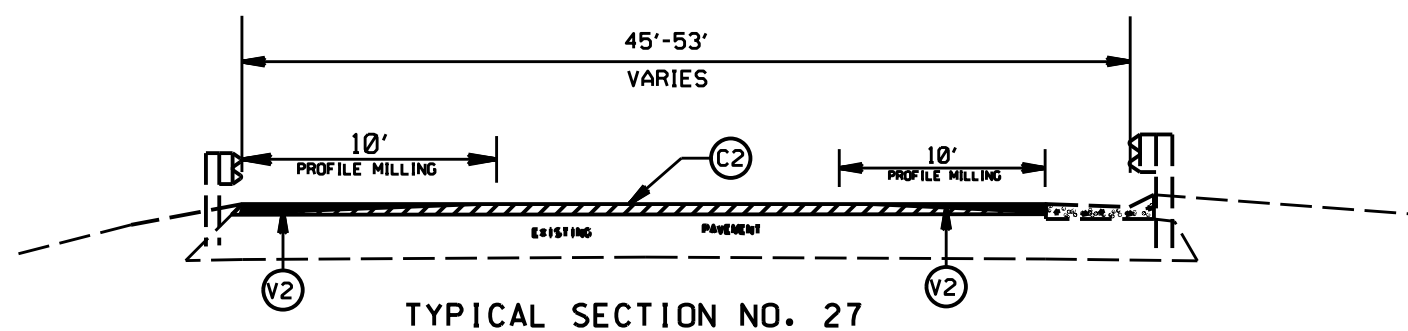
I-5768 Interstate 77 Pavement Rehabilitation

SCALE	-NA-
DATE	8/16
DWG. BY	TJP
DESIGN BY	TJP
APPROVED	WAT



REVISIONS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5768	16	
WBS NO.	530IL3J		



PAVEMENT SCHEDULE	
B1	PROP. APPROX. 5/8" ULTRATHIN HOT MIX ASPHALT COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C1	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V1	MILLING 1.5" DEPTH
V2	PROFILE MILLING, 0" to 1.5" DEPTH
V3	PROFILE MILLING, 1.5" to 2.0" DEPTH
V4	MILLING, 2.0" DEPTH
V5	MILLING, 2.5" DEPTH
T	SHOULDER RECONSTRUCTION
M	MILLED RUMBLE STRIPS

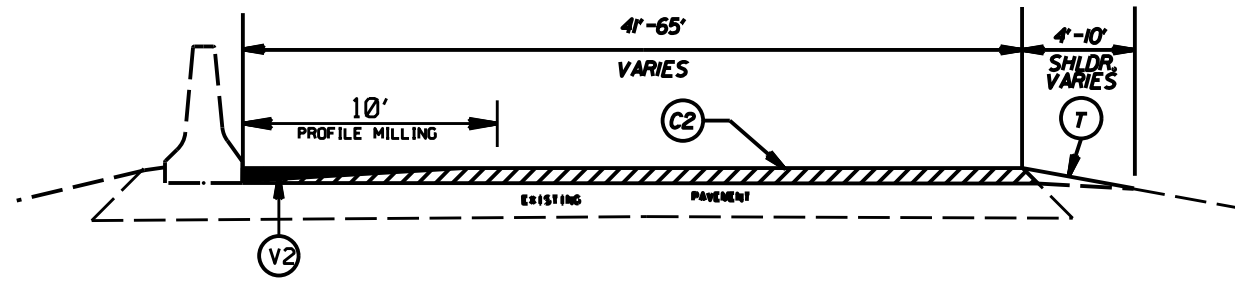
I-5768 Interstate 77 Pavement Rehabilitation

SCALE -NA-
DATE 8/16
DWG. BY TJP
DESIGN BY TJP
APPROVED WAT

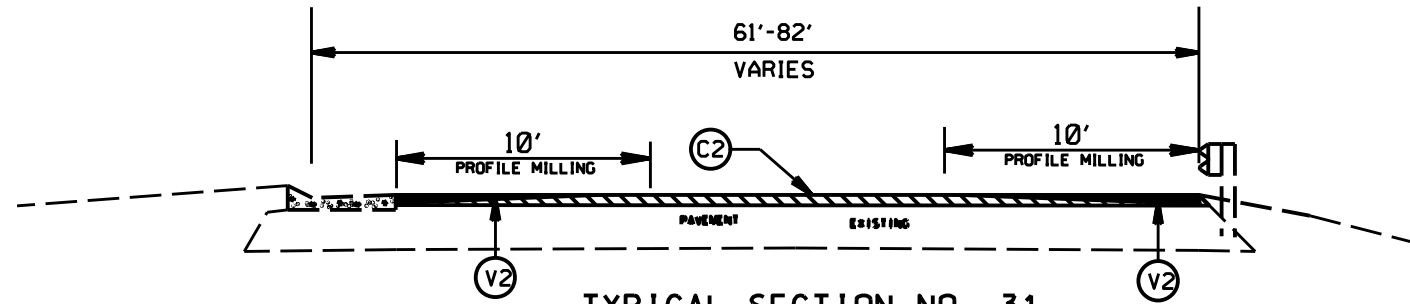


REVISIONS	

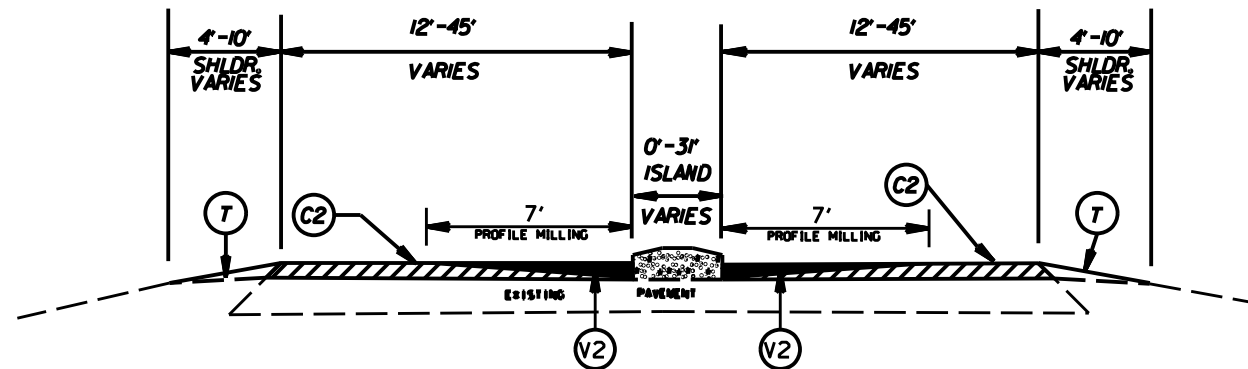
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5768	17	
WBS NO.	530H.3J		



TYPICAL SECTION NO. 30



TYPICAL SECTION NO. 31



TYPICAL SECTION NO. 32

PAVEMENT SCHEDULE	
B1	PROP. APPROX. 5/8" ULTRATHIN HOT MIX ASPHALT COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C1	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V1	MILLING 1.5" DEPTH
V2	PROFILE MILLING, 0" to 1.5" DEPTH
V3	PROFILE MILLING, 1.5" to 2.0" DEPTH
V4	MILLING, 2.0" DEPTH
V5	MILLING, 2.5" DEPTH
T	SHOULDER RECONSTRUCTION
M	MILLED RUMBLE STRIPS

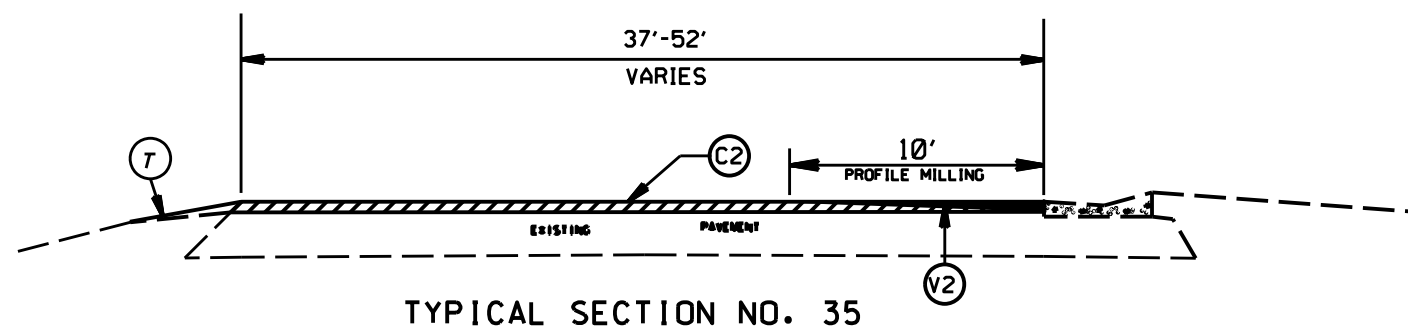
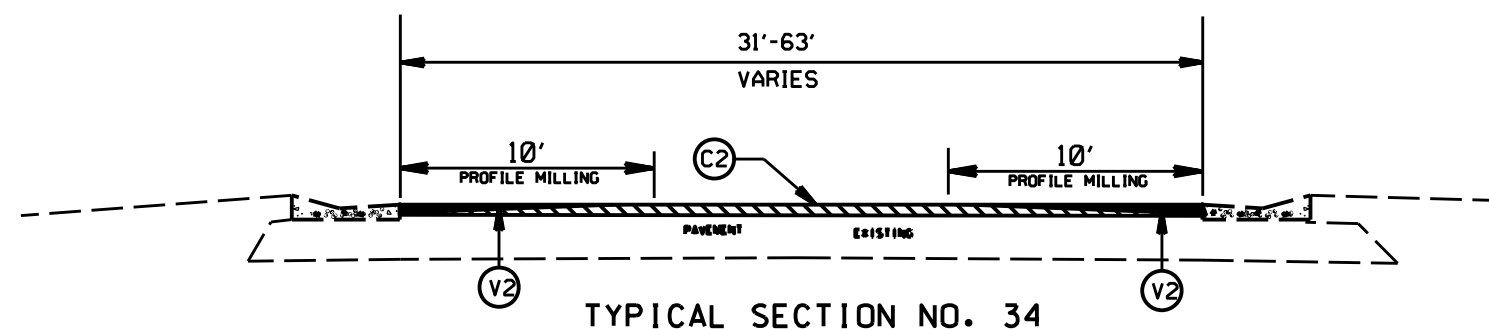
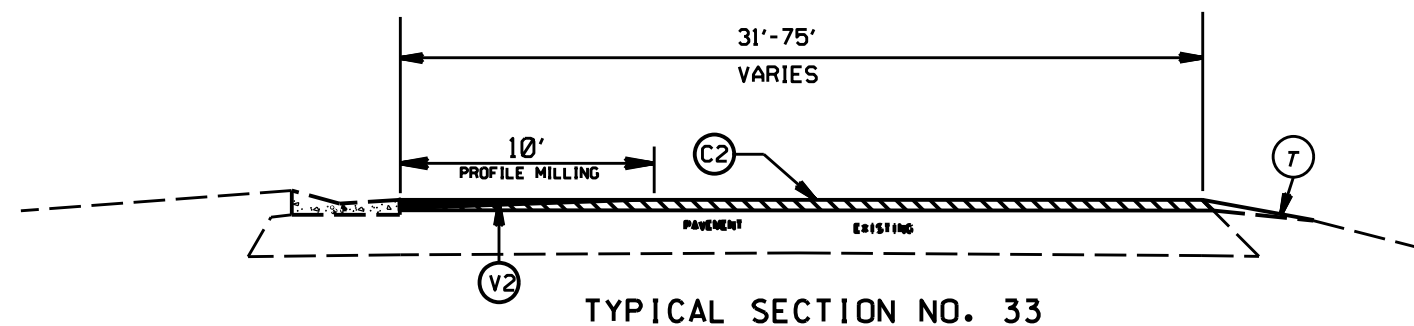
I-5768 Interstate 77 Pavement Rehabilitation

SCALE	-NA-
DATE	8/16
DWG. BY	TJP
DESIGN BY	TJP
APPROVED	WAT



REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5768	18	
WBS NO.	530H.3.1		



PAVEMENT SCHEDULE	
B1	PROP. APPROX. 5/8" ULTRATHIN HOT MIX ASPHALT COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C1	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V1	MILLING 1.5" DEPTH
V2	PROFILE MILLING, 0" to 1.5" DEPTH
V3	PROFILE MILLING, 1.5" to 2.0" DEPTH
V4	MILLING, 2.0" DEPTH
V5	MILLING, 2.5" DEPTH
T	SHOULDER RECONSTRUCTION
M	MILLED RUMBLE STRIPS

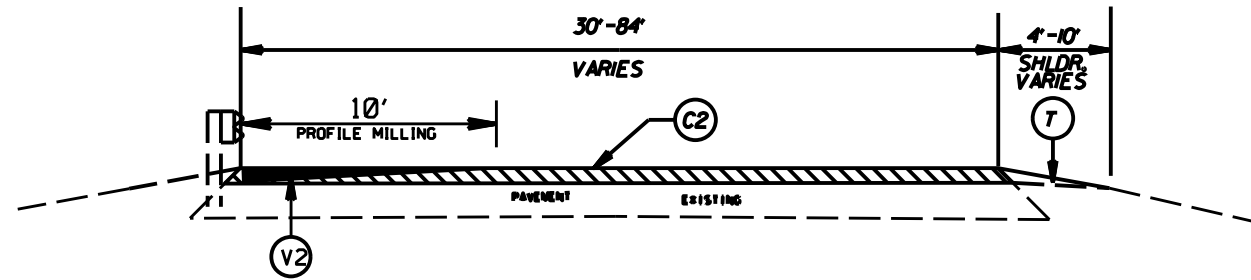
I-5768 Interstate 77 Pavement Rehabilitation

SCALE	-NA-
DATE	8/16
DWG. BY	TJP
DESIGN BY	TJP
APPROVED	WAT

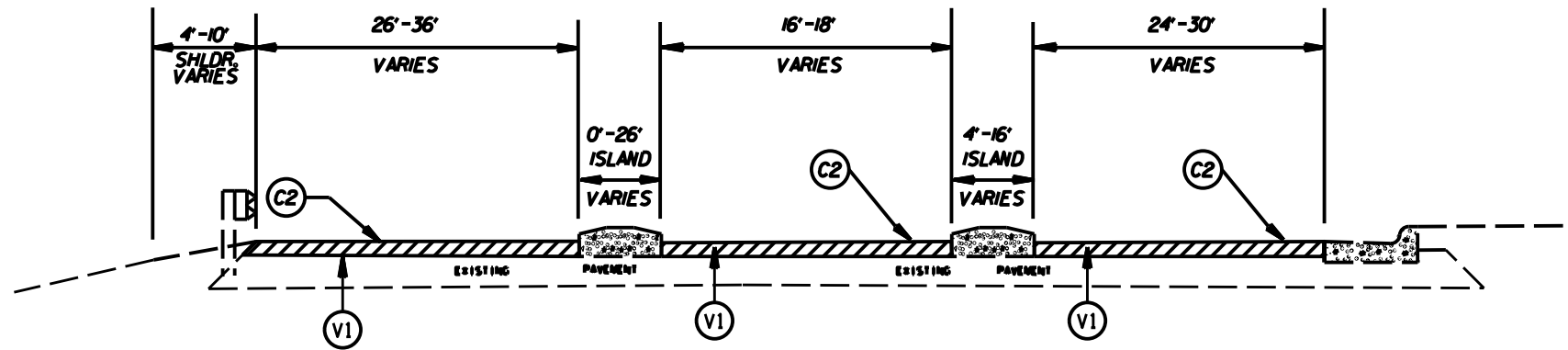


REVISIONS	

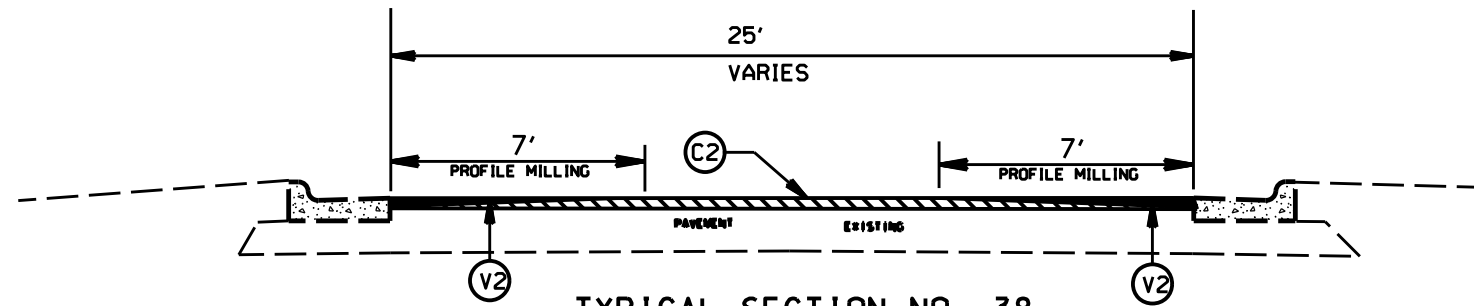
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5768	19	
WBS NO.	530R.3.J		



TYPICAL SECTION NO. 36



TYPICAL SECTION NO. 37



TYPICAL SECTION NO. 38

PAVEMENT SCHEDULE	
B1	PROP. APPROX. 5/8" ULTRATHIN HOT MIX ASPHALT COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C1	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V1	MILLING 1.5" DEPTH
V2	PROFILE MILLING, 0" to 1.5" DEPTH
V3	PROFILE MILLING, 1.5" to 2.0" DEPTH
V4	MILLING, 2.0" DEPTH
V5	MILLING, 2.5" DEPTH
T	SHOULDER RECONSTRUCTION
M	MILLED RUMBLE STRIPS

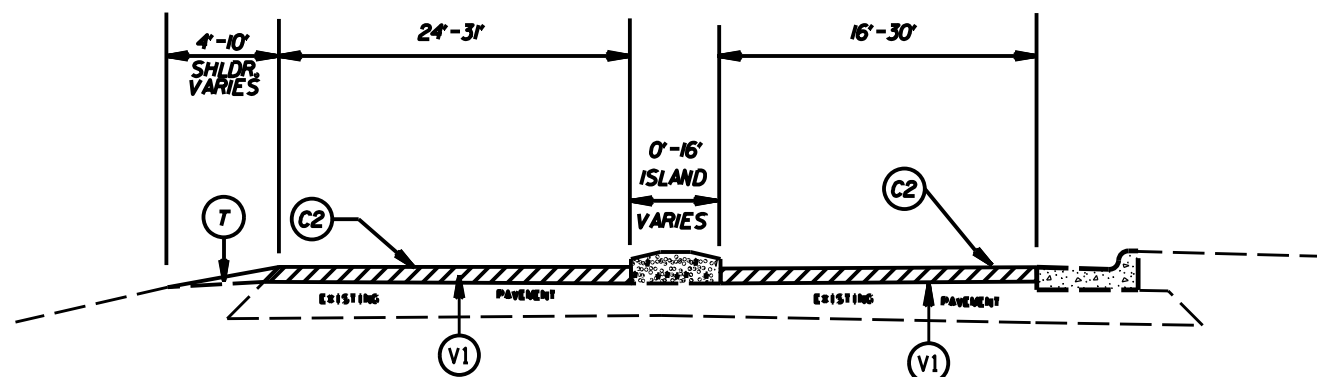
I-5768 Interstate 77 Pavement Rehabilitation

SCALE	-NA-
DATE	8/16
DWG. BY	TJP
DESIGN BY	TJP
APPROVED	WAT

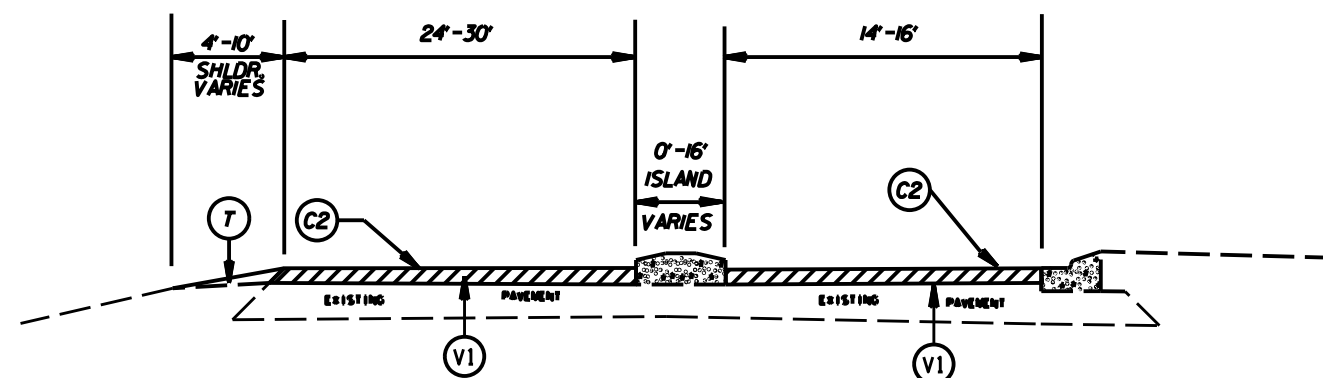


REVISIONS	

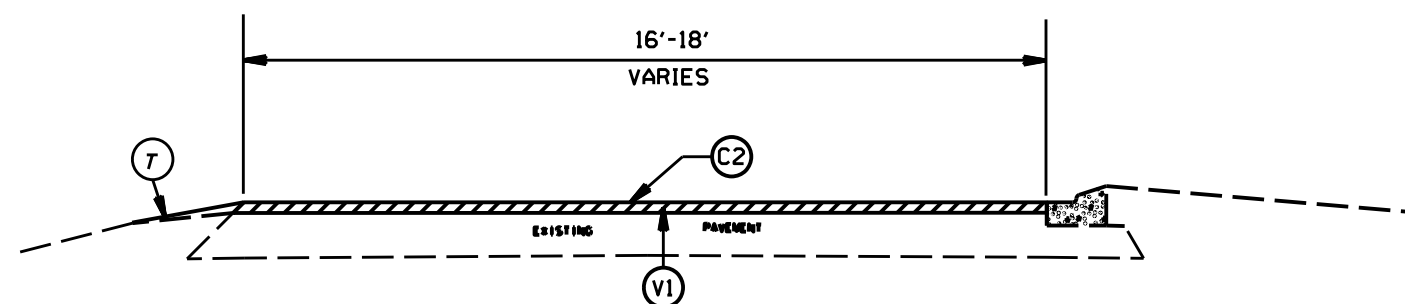
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5768	20	
WBS NO.	530R.3J		



TYPICAL SECTION NO. 39



TYPICAL SECTION NO. 40



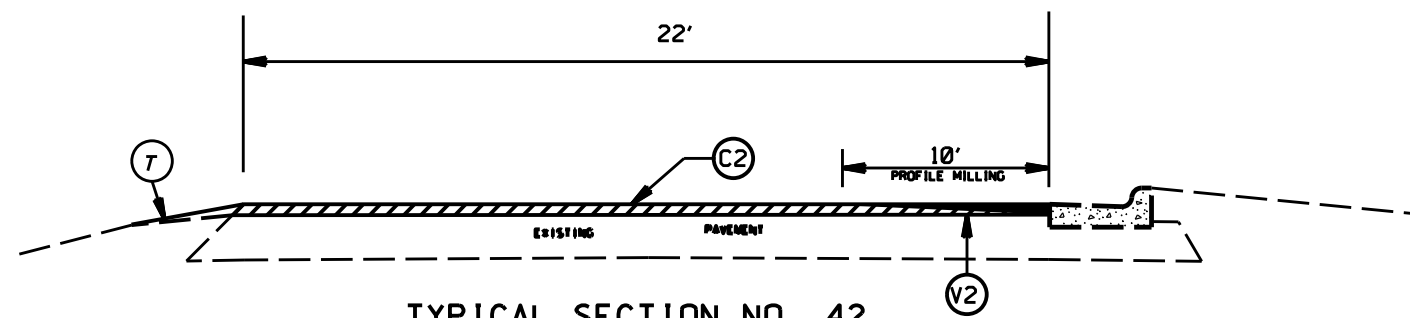
TYPICAL SECTION NO. 41

PAVEMENT SCHEDULE	
B1	PROP. APPROX. 5/8" ULTRATHIN HOT MIX ASPHALT COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C1	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V1	MILLING 1.5" DEPTH
V2	PROFILE MILLING, 0" to 1.5" DEPTH
V3	PROFILE MILLING, 1.5" to 2.0" DEPTH
V4	MILLING, 2.0" DEPTH
V5	MILLING, 2.5" DEPTH
T	SHOULDER RECONSTRUCTION
M	MILLED RUMBLE STRIPS

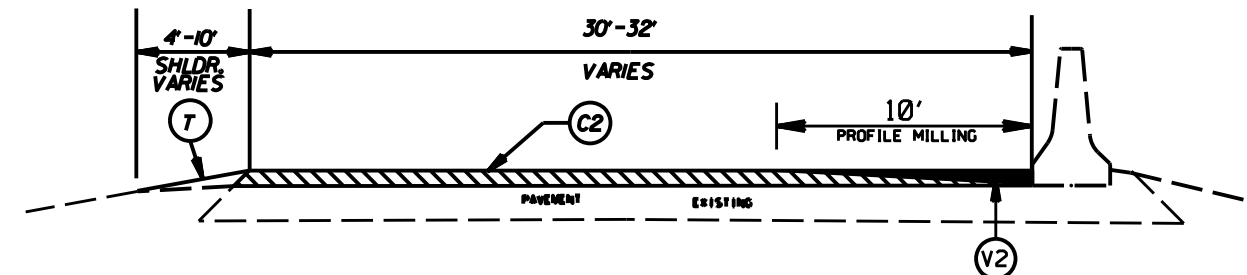
I-5768 Interstate 77 Pavement Rehabilitation

SCALE	-NA-		REVISIONS
DATE	8/16		
DWG. BY	TJP		
DESIGN BY	TJP		
APPROVED	WAT		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5768	21	
WBS NO.	5304.3.1		



TYPICAL SECTION NO. 42



TYPICAL SECTION NO. 43

PAVEMENT SCHEDULE	
B1	PROP. APPROX. 5/8" ULTRATHIN HOT MIX ASPHALT COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C1	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V1	MILLING 1.5" DEPTH
V2	PROFILE MILLING, 0" to 1.5" DEPTH
V3	PROFILE MILLING, 1.5" to 2.0" DEPTH
V4	MILLING, 2.0" DEPTH
V5	MILLING, 2.5" DEPTH
T	SHOULDER RECONSTRUCTION
M	MILLED RUMBLE STRIPS

I-5768 Interstate 77 Pavement Rehabilitation

SCALE	-NA-		REVISIONS
DATE	8/16		
DWG. BY	TJP		
DESIGN BY	TJP		
APPROVED	WAT		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5768	22	
WBS NO.	5304.3.1		

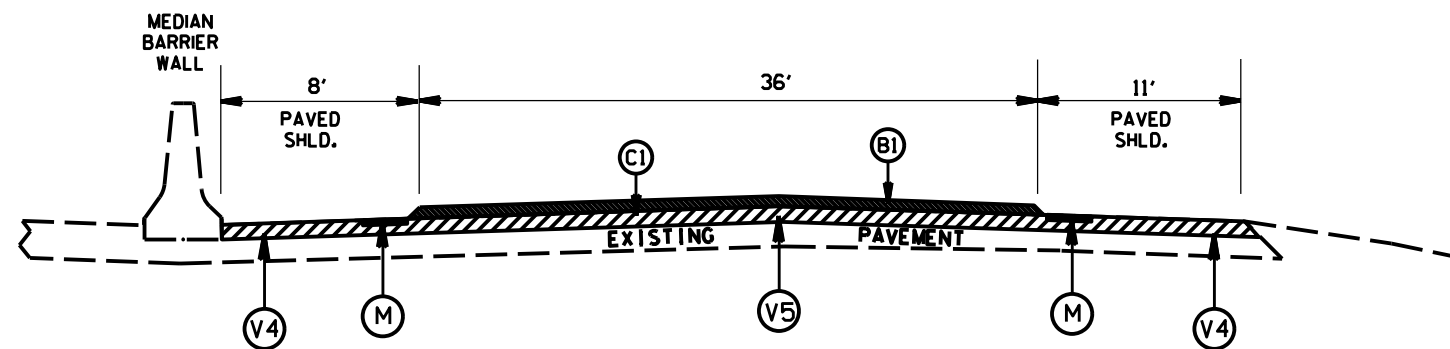
Notes:

MAINLINE TYPICALS 44-49 APPLY TO I-77 NORTHBOUND AND SOUTHBOUND UNDER THE BRIDGES AT I-485 INTERCHANGE AND NATIONS FORD RD INTERCHANGE. THE COMBINATION OF MILLING AND REPLACING ASPHALT PAVEMENT TO THE EXISTING GRADE IS NECESSARY TO MAINTAIN THE EXISTING BRIDGE CLEARANCE.

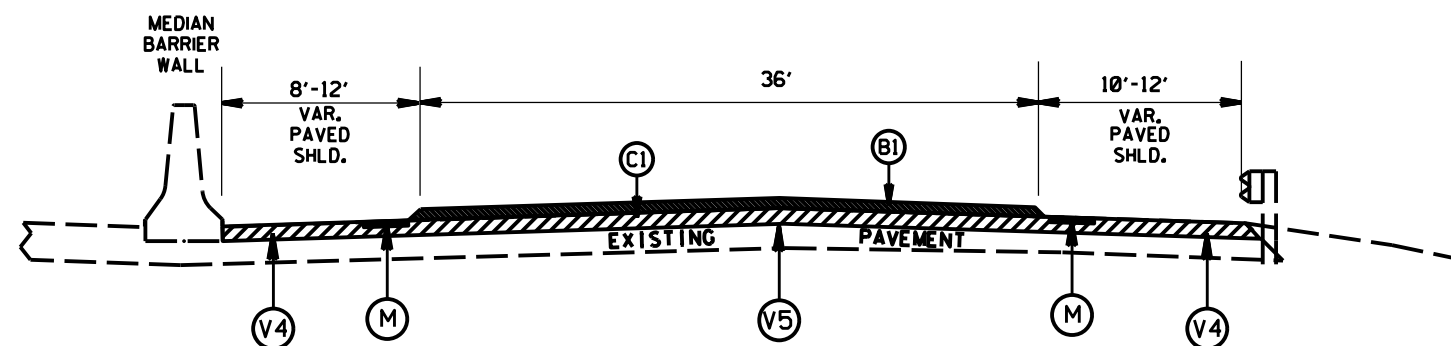
THE EXISTING MAINLINE HAS AN OPEN GRADED FRICTION COURSE OF APPROXIMATELY 5/8" AS PART OF THE PAVEMENT STRUCTURE IN THE TRAVEL LANES. TYPICALS 44-49 SHOW A MILLING DEPTH OF 2.5" IN THE TRAVEL LANES WHERE THE 5/8" FRICTION COURSE EXISTS AND A 2" MILLING DEPTH ON THE SHOULDERS. THE USE OF THESE MILLING DEPTHS ARE INTENDED TO MAINTAIN THE EXISTING GRADE AFTER THE PROPOSED PAVEMENT STRUCTURE IS PLACE.

TYPICALS 44-49 WILL APPLY TO THE AREA OF I-77 500' ON BOTH SIDES OF THE BRIDGES AT THE I-485 AND NATIONS FORD RD INTERCHANGES.

TRANSITION THE MILLING FROM 1.5" TO 2.5" OVER THE COARSE OF 100' ON EACH END OF THE 1000' WHERE TYPICALS 44-49 APPLY.



TYPICAL SECTION NO.44



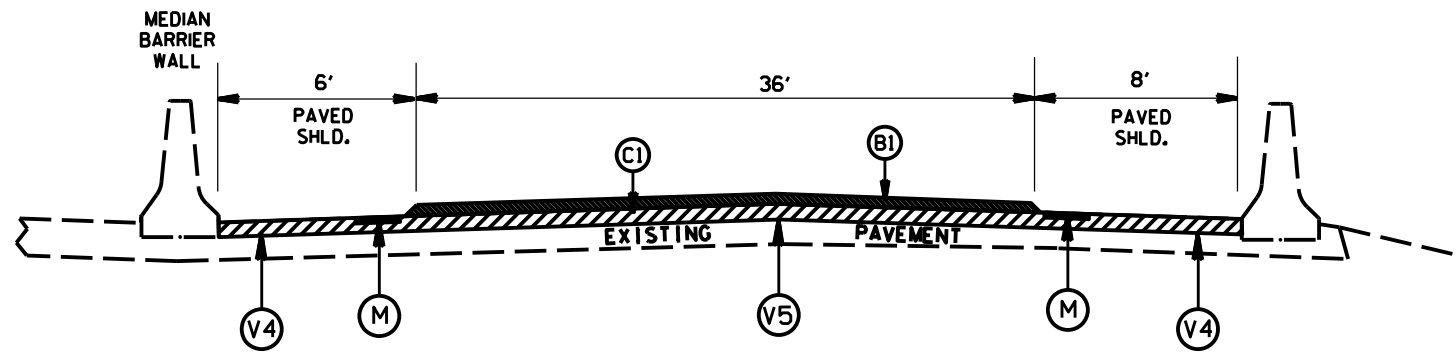
TYPICAL SECTION NO.45

PAVEMENT SCHEDULE	
B1	PROP. APPROX. 5/8" ULTRATHIN HOT MIX ASPHALT COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C1	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V1	MILLING 1.5" DEPTH
V2	PROFILE MILLING, 0" TO 1.5" DEPTH
V3	PROFILE MILLING, 1.5" TO 2.0" DEPTH
V4	MILLING, 2.0" DEPTH
V5	MILLING, 2.5" DEPTH
T	SHOULDER RECONSTRUCTION
M	MILLED RUMBLE STRIPS

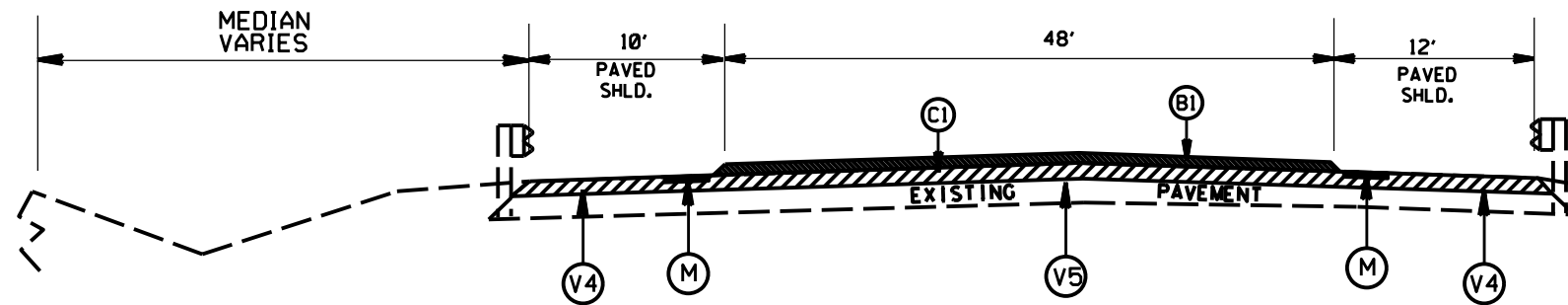
I-5768 Interstate 77 Pavement Rehabilitation

SCALE	-NA-		REVISIONS
DATE	8/16		
DWG. BY	TJP		
DESIGN BY	TJP		
APPROVED	WAT		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5768	23	
WBS NO.	5301.3.1		



TYPICAL SECTION NO.46



TYPICAL SECTION NO.47

PAVEMENT SCHEDULE	
B1	PROP. APPROX. 5/8" ULTRATHIN HOT MIX ASPHALT COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C1	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V1	MILLING 1.5" DEPTH
V2	PROFILE MILLING, 0" to 1.5" DEPTH
V3	PROFILE MILLING, 1.5" to 2.0" DEPTH
V4	MILLING, 2.0" DEPTH
V5	MILLING, 2.5" DEPTH
T	SHOULDER RECONSTRUCTION
M	MILLED RUMBLE STRIPS

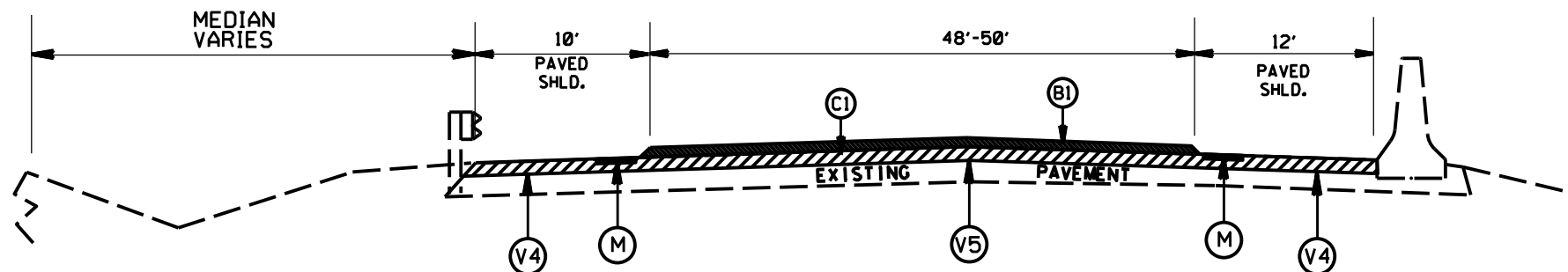
I-5768 Interstate 77 Pavement Rehabilitation

SCALE	-NA-
DATE	8/16
DWG. BY	TJP
DESIGN BY	TJP
APPROVED	WAT

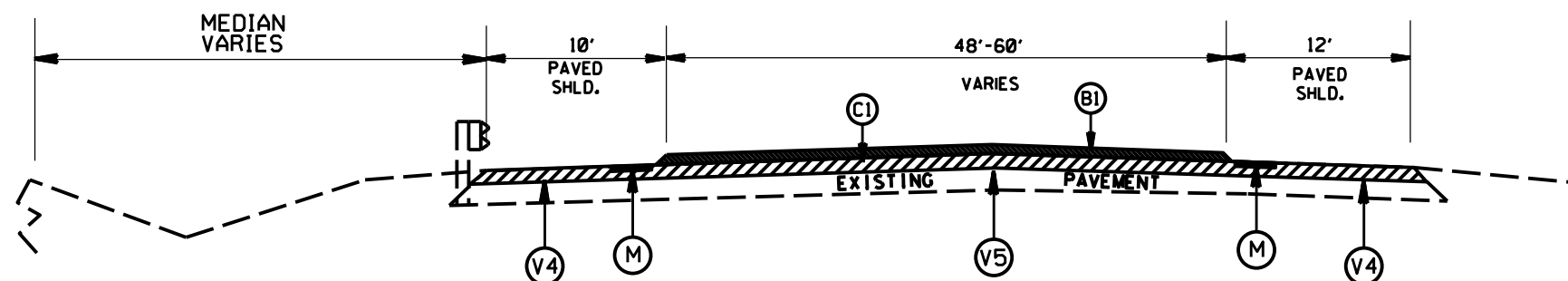


REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5768	24	
WBS NO.	530IL3.1		



TYPICAL SECTION NO.48



TYPICAL SECTION NO.49

PAVEMENT SCHEDULE	
B1	PROP. APPROX. 5/8" ULTRATHIN HOT MIX ASPHALT COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C1	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V1	MILLING 1.5" DEPTH
V2	PROFILE MILLING, 0" to 1.5" DEPTH
V3	PROFILE MILLING, 1.5" to 2.0" DEPTH
V4	MILLING, 2.0" DEPTH
V5	MILLING, 2.5" DEPTH
T	SHOULDER RECONSTRUCTION
M	MILLED RUMBLE STRIPS

I-5768 Interstate 77 Pavement Rehabilitation

SCALE	-NA-
DATE	8/16
DWG. BY	TJP
DESIGN BY	TJP
APPROVED	WAT



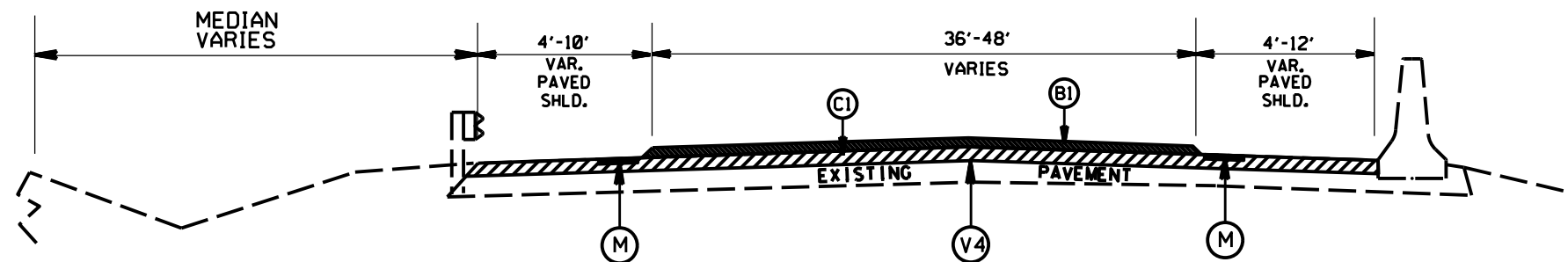
REVISIONS	

Notes:

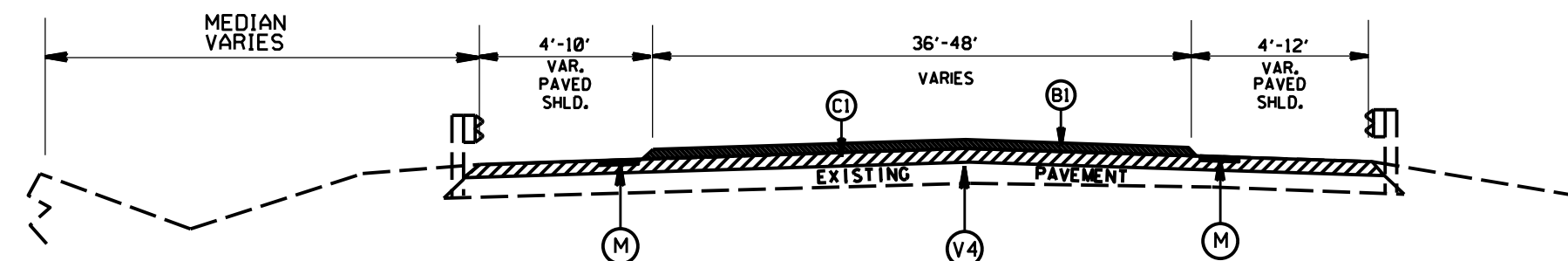
FOR TYPICALS 50-52 USE 100 FEET BEFORE AND AFTER THE BRIDGES TO MAKE A SMOOTH TRANSITION FROM 1.5" TO 2.0" MILLING IN ORDER TO MAKE FLUSH TIE-IN WITH BRIDGE.

FOR SECTIONS 100 FEET BEFORE AND AFTER THE BRIDGES USE A COMBINATION OF MILLING AN PAVING TECHNIQUES TO REMOVE ANY DIPS OR SETTLEMENTS TO REESTABLISH A SMOOTH ROADWAY PROFILE.

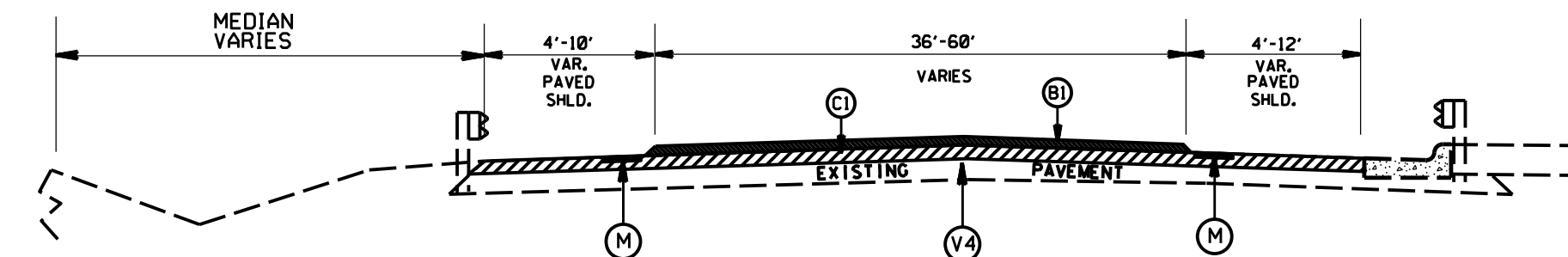
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5768	25	
WBS NO. 5301.3J			



TYPICAL SECTION NO.50
AT SUGAR CREEK BRIDGE



TYPICAL SECTION NO.51
AT SUGAR CREEK BRIDGE
AT ARROWOOD RD BRIDGE



TYPICAL SECTION NO.52
AT ARROWOOD RD BRIDGE
AT WESTINGHOUSE RD BRIDGE

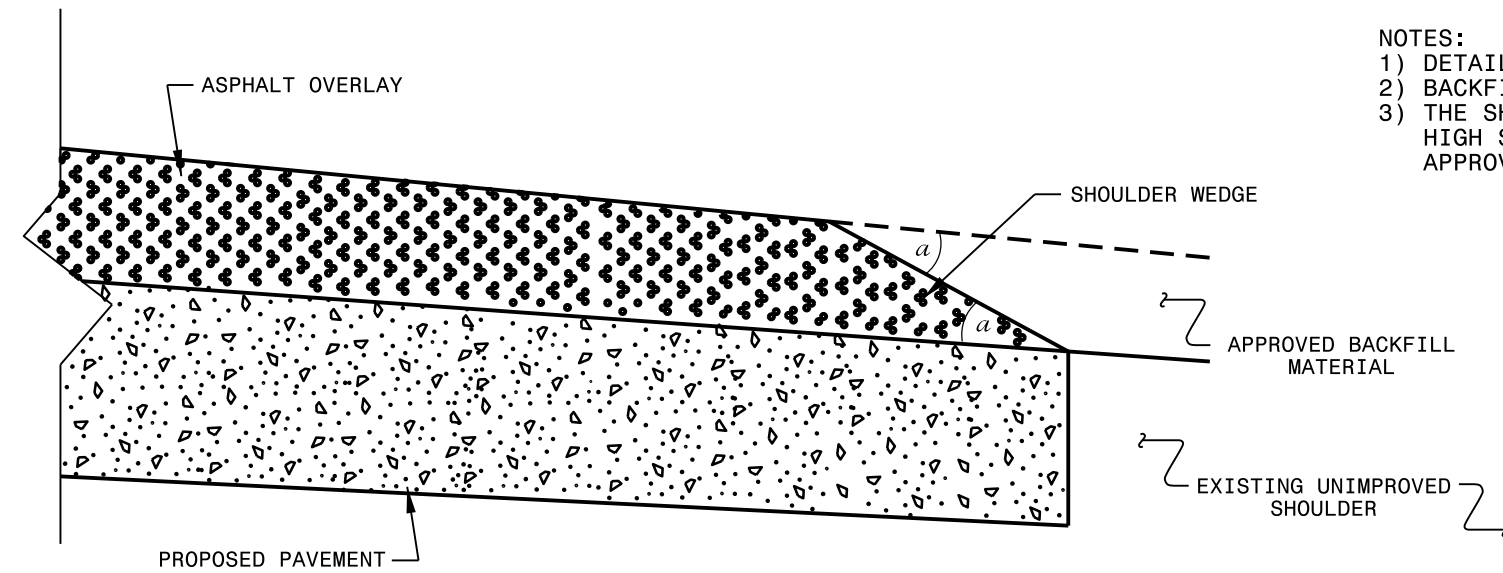
PAVEMENT SCHEDULE	
B1	PROP. APPROX. 5/8" ULTRATHIN HOT MIX ASPHALT COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C1	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V1	MILLING 1.5" DEPTH
V2	PROFILE MILLING, 0" to 1.5" DEPTH
V3	PROFILE MILLING, 1.5" to 2.0" DEPTH
V4	MILLING, 2.0" DEPTH
V5	MILLING, 2.5" DEPTH
T	SHOULDER RECONSTRUCTION
M	MILLED RUMBLE STRIPS

I-5768 Interstate 77 Pavement Rehabilitation

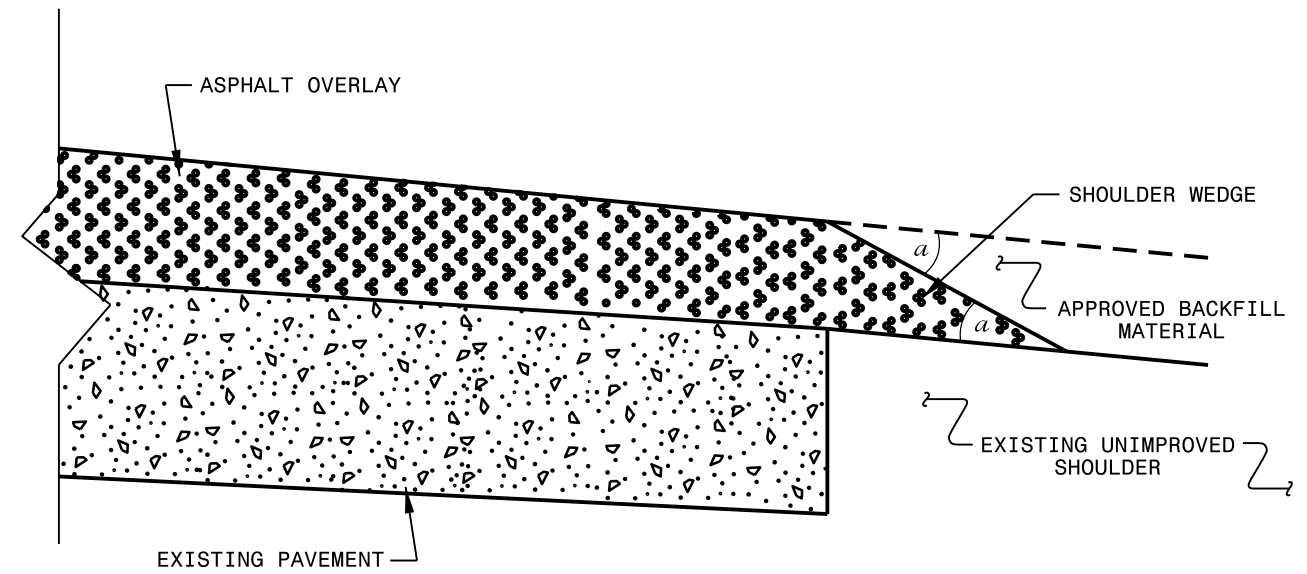
SCALE	-NA-		REVISIONS
DATE	8/16		
DWG. BY	TJP		
DESIGN BY	TJP		
APPROVED	WAT		

NOTES:

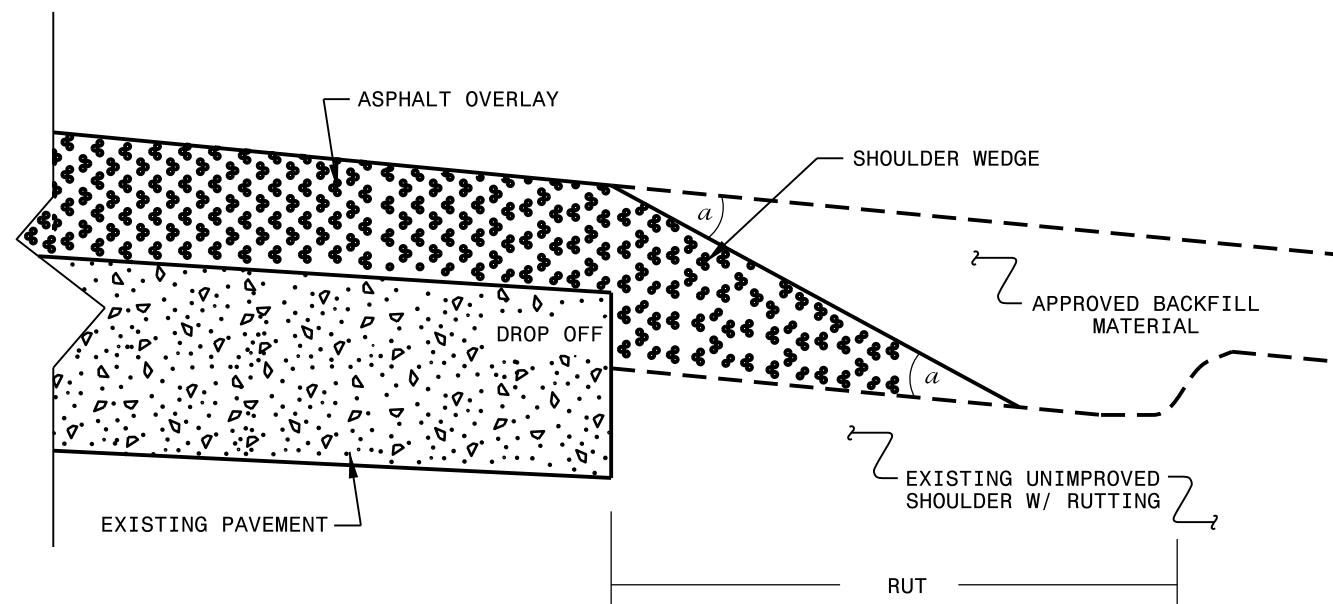
- 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
- 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
- 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



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



SHOULDER WEDGE DETAIL
 (Resurfacing Projects w/ NO Widening)



SHOULDER WEDGE DETAIL
 (Resurfacing Adjacent to
 Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°

CONTRACT STANDARDS AND DEVELOPMENT UNIT			
Office 919-707-6950		FAX 919-250-4119	
SHOULDER WEDGE DETAILS			
ORIGINAL BY:	T.SPELL	DATE:	7-19-11
MODIFIED BY:		DATE:	2/2/16
CHECKED BY:		DATE:	
FILE SPEC.:	szusr/details/stand/shoulderwedgedetail.dgn		

24-MAR-2016 11:45
 S:\Contracts\Resurfacing Projects\Shoulder Wedge Details\Revised Shoulder Wedge Detail.dgn
 \$\$\$USERNAME\$\$\$

PROJECT NO.	SHEET NO.	TOTAL NO.
I-5768	27	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	BORROW CY	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	1.5" MILLING SY	2" MILLING SY	2.5" MILLING SY	1.5" TO 2" MILLING SY	0" TO 1.5" MILLING SY	INCIDENTAL MILLING SY	SURFACE COURSE, S9.5C TONS	LEVELING COURSE, S9.5C TONS	SURFACE COURSE, S9.5D TONS	ASPHALT BINDER FOR PLANT MIX TONS	POLYMER MODIFIED ASPHALT BINDER FOR PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	ULTRA-THIN BONDED WEARING COURSE TON	MILLED RUMBLE STRIPS (ASPHALT CEMENT CONCRETE) LF	PORTABLE LIGHTING LS	TEMP SILT FENCE LF	STONE FOR EROSION CONTROL, CLASS B TN	SEDIMENT CONTROL STONE TN	WATTLE LF	POLY-ACRYLAMIDE (PAM) LB		
I-5768	Mecklenburg	1	I-77 NORTHBOUND	FROM SC STATE LINE TO MM 5.3	1-3, 5-18, 20-23, 44-52	3	MD	NO	NO	5.32	66.3	715		5.84	206,732	8,228	9,334	100		4,236			25,469		1,730	7,920	5,350	56,179	0.23	798	107	54	160	2		
		2	I-77 SOUTHBOUND	FROM MM 5.3 TO SC STATE LINE	1-11, 16-21, 44, 45, 48, 50-52	3	MD	NO	NO	5.26	67.3	778		6.36	207,675	8,403	9,334				4,300			25,586		1,746	7,667	5,528	55,546	0.23	789	105	53	160	2	
		3	I-77 SB OFF RAMP	FROM PHYSICAL GORE TO TYVOLA RD		24-30	2	MD	NO	NO	0.16	46.26	17		0.13																0.05	25	4	2	10	1
		4	I-77 SB ON RAMP	FROM TYVOLA RD TO PHYSICAL GORE		25, 26, 29-31	2	MD	NO	NO	0.2	39	40		0.19																0.05	30	4	2	10	1
		5	I-77 SB OFF RAMP	FROM PHYSICAL GORE TO NATIONS FORD RD		24, 32	1	MD	NO	NO	0.07	32	30		0.14																0.05	11	2	1	10	1
		6	I-77 SB ON RAMP	FROM NATIONS FORD RD TO PHYSICAL GORE		24, 32	1	MD	NO	NO	0.15	29	70		0.29																0.05	23		4	10	1
		7	I-77 SB OFF RAMP	FROM PHYSICAL GORE TO ARROWOOD RD		24, 33-35	2	MD	NO	NO	0.21	54.5	50		0.23																0.05	33	4	2	10	1
		8	I-77 NB ON RAMP	FROM ARROWOOD RD TO PHYSICAL GORE		24, 33, 38	2	MU	NO	NO	0.47	40	150	60	0.76																0.05	70	10	5	20	1
		9	I-77 NB OFF RAMP	FROM PHYSICAL GORE TO NATIONS FORD RD		24, 36	1	MD	NO	NO	0.12	50	50		0.22																0.05	18	4	2	10	1
		10	I-77 NB ON RAMP	FROM NATIONS FORD RD TO PHYSICAL GORE		24, 37, 39-41	2	2WD	NO	NO	0.17	34	40	20	0.19	1,851															0.05	26	4	2	10	1
		11	I-77 NB OFF RAMP	FROM PHYSICAL GORE TO TYVOLA RD		24, 25, 36	2	MD	NO	NO	0.17	45.3	40		0.25																0.05	26	4	2	10	1
		12	I-77 NB ON RAMP	FROM TYVOLA RD TO PHYSICAL GORE		24, 30, 42	2	MD	NO	NO	0.17	39.2	30	80	0.18																0.05	25	3	1	10	1
		13	I-77 NB OFF RAMP	FROM PHYSICAL GORE TO PVMT JNT AT I-485 RAMP		24, 43	1	MD	NO	NO	0.21	31	50		0.34																0.05	32	4	2	10	1
TOTAL FOR PROJ NO. I-5768										12.68		2,060	160	15.12	416,258	16,631	18,668	100	5,736	14,642	4,724	150	51,055	288	3,476	16,840	10,878	111,725	1.00	1,906	255	132	440	15		
GRAND TOTAL										12.68		2,060	160	15.12	416,258	16,631	18,668	100	5,736	14,642	4,724	150	51,055	288	3,476	16,840	10,878	111,725	1.00	1,906	255	132	440	15		

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	WORK ZONE SIGNS STATIONARY SF	WORK ZONE SIGNS PORTABLE SF	WORK ZONE SIGNS BARRICADE MOUNTED SF	FLASHING ARROW BOARD EA	PORTABLE CHANGE-ABLE MESSAGE SIGN EA	PORTABLE CHANGE-ABLE MESSAGE SIGN (SHORT TERM) DAY	DRUMS EA	BARRICADES TYPE III LF	TMA EA	LAW ENFORCEMENT HR	
I-5768	Mecklenburg	1	I-77 NORTHBOUND	FROM SC STATE LINE TO MM 5.3	1-3, 5-18, 20-23, 44-52	3	MD	NO	NO	5.32	66.3	320	442	64	6	8	45	250	32	2	300	
		2	I-77 SOUTHBOUND	FROM MM 5.3 TO SC STATE LINE	1-11, 16-21, 44, 45, 48, 50-52	3	MD	NO	NO	5.26	67.3											
		3	I-77 SB OFF RAMP	FROM PHYSICAL GORE TO TYVOLA RD		24-30	2	MD	NO	NO	0.16	46.26										
		4	I-77 SB ON RAMP	FROM TYVOLA RD TO PHYSICAL GORE		25, 26, 29-31	2	MD	NO	NO	0.2	39										
		5	I-77 SB OFF RAMP	FROM PHYSICAL GORE TO NATIONS FORD RD		24, 32	1	MD	NO	NO	0.07	32										
		6	I-77 SB ON RAMP	FROM NATIONS FORD RD TO PHYSICAL GORE		24, 32	1	MD	NO	NO	0.15	29										
		7	I-77 SB OFF RAMP	FROM PHYSICAL GORE TO ARROWOOD RD		24, 33-35	2	MD	NO	NO	0.21	54.5										
		8	I-77 NB ON RAMP	FROM ARROWOOD RD TO PHYSICAL GORE		24, 33, 38	2	MU	NO	NO	0.47	40										
		9	I-77 NB OFF RAMP	FROM PHYSICAL GORE TO NATIONS FORD RD		24, 36	1	MD	NO	NO	0.12	50										
		10	I-77 NB ON RAMP	FROM NATIONS FORD RD TO PHYSICAL GORE		24, 37, 39-41	2	2WD	NO	NO	0.17	34										
		11	I-77 NB OFF RAMP	FROM PHYSICAL GORE TO TYVOLA RD		24, 25, 36	2	MD	NO	NO	0.17	45.3										
		12	I-77 NB ON RAMP	FROM TYVOLA RD TO PHYSICAL GORE		24, 30, 42	2	MD	NO	NO	0.17	39.2										
		13	I-77 NB OFF RAMP	FROM PHYSICAL GORE TO PVMT JNT AT I-485 RAMP		24, 43	1	MD	NO	NO	0.21	31										
TOTAL FOR PROJ NO. I-5768										12.68		320	442	64	6	8	45	250	32	2	300	
GRAND TOTAL										12.68		320	442	64	6	8	45	250	32	2	300	

PROJECT NO.	SHEET NO.	TOTAL NO.
I-5768	28	

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	465000000-N	468500000-E		468600000-E	468800000-E		469000000-E	469500000-E	469700000-E	470000000-E	470200000-E	471000000-E	472100000-E	472500000-E													
										TEMPORARY RAISED PAVEMENT MARKERS EA	4" X 90 M YELLOW THERMO LF	4" X 90 M WHITE 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	8" X 120 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	MERGE ARROW 90 M EA	THERMO STR & RT ARROW 90 M EA	THERMO RT ARROW 90 M EA	THERMO LT ARROW 90 M EA	THERMO STR & LT ARROW 90 M EA	THERMO STR ARROW 90 M EA								
I-5768	Mecklenburg	1	I-77 NORTHBOUND	FROM SC STATE LINE TO MM 5.3	1-3, 5-18, 20-23, 44-52	3	MD	5.32	66.3	685				28,074	28,074	17,632			9,008	1,100		20	14	4	12											
		2	I-77 SOUTHBOUND	FROM MM 5.3 TO SC STATE LINE	1-11, 16-21, 44, 45, 48, 50-52	3	MD	5.26	67.3	685				27,758	27,758	19,109				10,083	1,600		16	10	4	8										
		3	I-77 SB OFF RAMP TYVOLA RD	FROM PHYSICAL GORE TO TYVOLA RD	24-30	2	MD	0.16	46.26						852	852	203										4									
		4	I-77 SB ON RAMP TYVOLA RD	FROM TYVOLA RD TO PHYSICAL GORE	25, 26, 29-31	2	MD	0.2	39						1,045	1,045	228							3												
		5	I-77 SB OFF RAMP NATIONS FORD RD	FROM PHYSICAL GORE TO NATIONS FORD RD	24, 32	1	MD	0.07	32						379	379											3	2	2							
		6	I-77 SB ON RAMP NATIONS FORD RD	FROM NATIONS FORD RD TO PHYSICAL GORE	24, 32	1	MD	0.15	29						790	790																				
		7	I-77 SB OFF RAMP ARROWOOD RD	FROM PHYSICAL GORE TO ARROWOOD RD	24, 33-35	2	MD	0.21	54.5						1,129	1,129	328										6	6								
		8	I-77 NB ON RAMP ARROWOOD RD	FROM ARROWOOD RD TO PHYSICAL GORE	24, 33, 38	2	MU	0.47	40						2,459	2,459	671							3												
		9	I-77 NB OFF RAMP NATIONS FORD RD	FROM PHYSICAL GORE TO NATIONS FORD RD	24, 36	1	MD	0.12	50						639	639	144										2	2							2	
		10	I-77 NB ON RAMP NATIONS FORD RD	FROM NATIONS FORD RD TO PHYSICAL GORE	24, 37, 39-41	2	2WD	0.17	34			340	300	150	937	937			131								3	3								
		11	I-77 NB OFF RAMP TYVOLA RD	FROM PHYSICAL GORE TO TYVOLA RD	24, 25, 36	2	MD	0.17	45.3						903	903	186												4							
		12	I-77 NB ON RAMP TYVOLA RD	FROM TYVOLA RD TO PHYSICAL GORE	24, 30, 42	2	MD	0.17	39.2						885	885	217																			
		13	I-77 NB OFF RAMP ARROWOOD RD	FROM PHYSICAL GORE TO PVMT JNT AT I-485 RAMP	24, 43	1	MD	0.21	31						1,133	1,133																				2
TOTAL FOR PROJ NO. I-5768										1,370	340	300	150	66,983	66,983	38,718	131	268	21,359	2,700	132	36	30	8	34	21	2	2	97							
GRAND TOTAL										1,370	340	300	150	66,983	66,983	38,718	131	268	21,359	2,700	132	36	30	8	34	21	2	2	97							

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	477000000-E	477000000-E	477500000-E		478000000-E	478500000-E	479500000-E	481000000-E		482000000-E	484000000-N	484500000-N				485000000-E	485500000-E	486000000-E	486500000-E	487000000-E	490500000-N	
										4" COLD APPLIED PLASTIC LINE WHITE TYPE II LF	4" COLD APPLIED PLASTIC, TYPE IV REMOVABLE TAPE LF	6" COLD APPLIED PLASTIC LINE WHITE TYPE II LF	6" COLD APPLIED PLASTIC LINE YELLOW TYPE II LF	8" COLD APPLIED PLASTIC LINE WHITE TYPE II LF	12" COLD APPLIED PLASTIC LINE TYPE II LF	24" COLD APPLIED PLASTIC LINE WHITE TYPE II LF	4" WHITE PAINT LF	4" YELLOW PAINT LF	8" WHITE PAINT LF	PAINT MSG ONLY EA	PAINT STR & RT ARROW EA	PAINT RT ARROW EA	PAINT MERGE ARROW EA	PAINT LT ARROW EA	LINE REMOVAL 4" WIDE LF	LINE REMOVAL 6" WIDE LF	LINE REMOVAL 8" WIDE LF	LINE REMOVAL 12" WIDE LF	LINE REMOVAL 24" WIDE LF	SNOW PLOWABLE MARKERS EA	
I-5768	Mecklenburg	1	I-77 NORTHBOUND	FROM SC STATE LINE TO MM 5.3	1-3, 5-18, 20-23, 44-52	3	MD	5.32	66.3	1603	868	491					48,818	24,410	3,721	16	6	14	20							1,929	
		2	I-77 SOUTHBOUND	FROM MM 5.3 TO SC STATE LINE	1-11, 16-21, 44, 45, 48, 50-52	3	MD	5.26	67.3	1602	1124	671		271			48,817	24,410	3,721	12	6	10	15							2,204	
		3	I-77 SB OFF RAMP TYVOLA RD	FROM PHYSICAL GORE TO TYVOLA RD	24-30	2	MD	0.16	46.26	50		10	43	112		28								2	50	53	112		28	47	
		4	I-77 SB ON RAMP TYVOLA RD	FROM TYVOLA RD TO PHYSICAL GORE	25, 26, 29-31	2	MD	0.2	39	50		30	90	110										3	50	120	110			61	
		5	I-77 SB OFF RAMP NATIONS FORD RD	FROM PHYSICAL GORE TO NATIONS FORD RD	24, 32	1	MD	0.07	32																2					10	
		6	I-77 SB ON RAMP NATIONS FORD RD	FROM NATIONS FORD RD TO PHYSICAL GORE	24, 32	1	MD	0.15	29																						30
		7	I-77 SB OFF RAMP ARROWOOD RD	FROM PHYSICAL GORE TO ARROWOOD RD	24, 33-35	2	MD	0.21	54.5																						112
		8	I-77 NB ON RAMP ARROWOOD RD	FROM ARROWOOD RD TO PHYSICAL GORE	24, 33, 38	2	MU	0.47	40																						88
		9	I-77 NB OFF RAMP NATIONS FORD RD	FROM PHYSICAL GORE TO NATIONS FORD RD	24, 36	1	MD	0.12	50																						21
		10	I-77 NB ON RAMP NATIONS FORD RD	FROM NATIONS FORD RD TO PHYSICAL GORE	24, 37, 39-41	2	2WD	0.17	34									300							3	3					13
		11	I-77 NB OFF RAMP TYVOLA RD	FROM PHYSICAL GORE TO TYVOLA RD	24, 25, 36	2	MD	0.17	45.3	50		10	35	120		28										2	50	45	80	28	49
		12	I-77 NB ON RAMP TYVOLA RD	FROM TYVOLA RD TO PHYSICAL GORE	24, 30, 42	2	MD	0.17	39.2	50				40	120												50		120	40	14
		13	I-77 NB OFF RAMP ARROWOOD RD	FROM PHYSICAL GORE TO PVMT JNT AT I-485 RAMP	24, 43	1	MD	0.21	31																						
TOTAL FOR PROJ NO. I-5768										200	3,205	2,042	1,370	462	271	56	97,935	48,820	7,442	28	12	27	38	12	200	218	422	40	56	4,578	
GRAND TOTAL										200	3,205	2,042	1,370	462	271	56	97,935	48,820	7,442	28	12	27	38	12	200	218	422	40	56	4,578	