

TIP PROJECT: I-5905

CONTRACT: C204647

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**MECKLENBURG COUNTY**

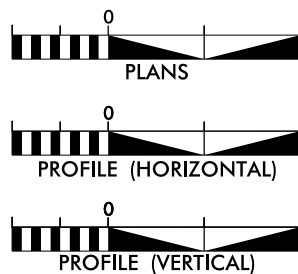
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5905	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
45888.3.1	NHPIM-0085(050)	CONST.	

**LOCATION:** I-85 FROM THE CONCRETE PAVEMENT JOINT SOUTH OF NC 16 BROOKSHIRE BLVD TO CONCRETE PAVEMENT JOINT AT US 29 BY PASS CONNECTOR ROAD MM 35.95 TO MM 42.03

**TYPE OF WORK:** MILLING AND PAVING WITH HOT MIX ASPHALT  
PAVEMENT MARKINGS & SNOWPLOWABLE  
PAVEMENT MARKERS, STRUCTURAL REHABILITATION



**GRAPHIC SCALES**



**DESIGN DATA**

ADT 2016 = 181,000  
ADT =  
K = %  
D = %  
T = % \*  
V = 60 MPH  
\* TTST = DUAL

**PROJECT LENGTH**

LENGTH OF ROADWAY PROJECT = 6.08 MILES  
TOTAL LENGTH OF STATE PROJECT = 6.08 MILES

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**  
DIVISION 10

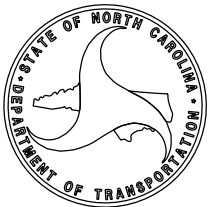
2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:  
N/A

JOHN H. EDMONDS  
PROJECT ENGINEER

LETTING DATE:  
JUNE 15, 2021

TRAVIS LOWDER  
PROJECT DESIGN ENGINEER



# INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
2 THRU 7	PLAN SHEETS
8 THRU 20	TYPICAL AND DETAIL SHEETS
21 THRU 23	SUMMARY OF QUANTITIES
TMP-1 THRU TMP-11	TRANSPORTATION MANAGEMENT PLANS
PMP-1 THRU PMP-2	PAVEMENT MARKING PLANS
EC-1 THRU EC-2	EROSION CONTROL PLANS
SIG-1	SIGNAL PLANS
X-1 THRU X-23	CROSS-SECTIONS (X-3 IS OMITTED)

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES", DATED JANUARY 2018, THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION "ROADWAY STANDARD DRAWINGS", DATED JANUARY 2018, AND THE CURRENT EDITION OF THE "MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES" UNLESS OTHERWISE NOTED ON THE PLANS OR WITHIN THE SPECIFICATIONS OF THE CONTRACT DOCUMENTS

GENERAL NOTES:                    2018 SPECIFICATIONS  
EFFECTIVE: JANUARY 2018

GRADING AND SURFACING OR RESURFACING AND WIDENING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTERLINE OF THE SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

SHOULDER CONSTRUCTION:

ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01 OR 560.02.

WHEELCHAIR RAMPS:

WHEELCHAIR RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS.

2018 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in the "Roadway Standard Drawings" Highway Design Branch - N.C. Department of Transportation - Raleigh, N.C. Dated January 2018 are applicable to this project and by reference hereby considered a part of these plans:

STD. NO.	TITLE
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DIVISION 2 - EARTHWORK

225.01	Guide for Grading Subgrade - Interstate and Freeway
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DIVISION 5 - SUBGRADE, BASES, AND SHOULDERS

560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
560.02	Method of Shoulder Construction - High Side of Superelevated Curve - Method II

DIVISION 7 - CONCRETE PAVEMENTS AND SHOULDERS

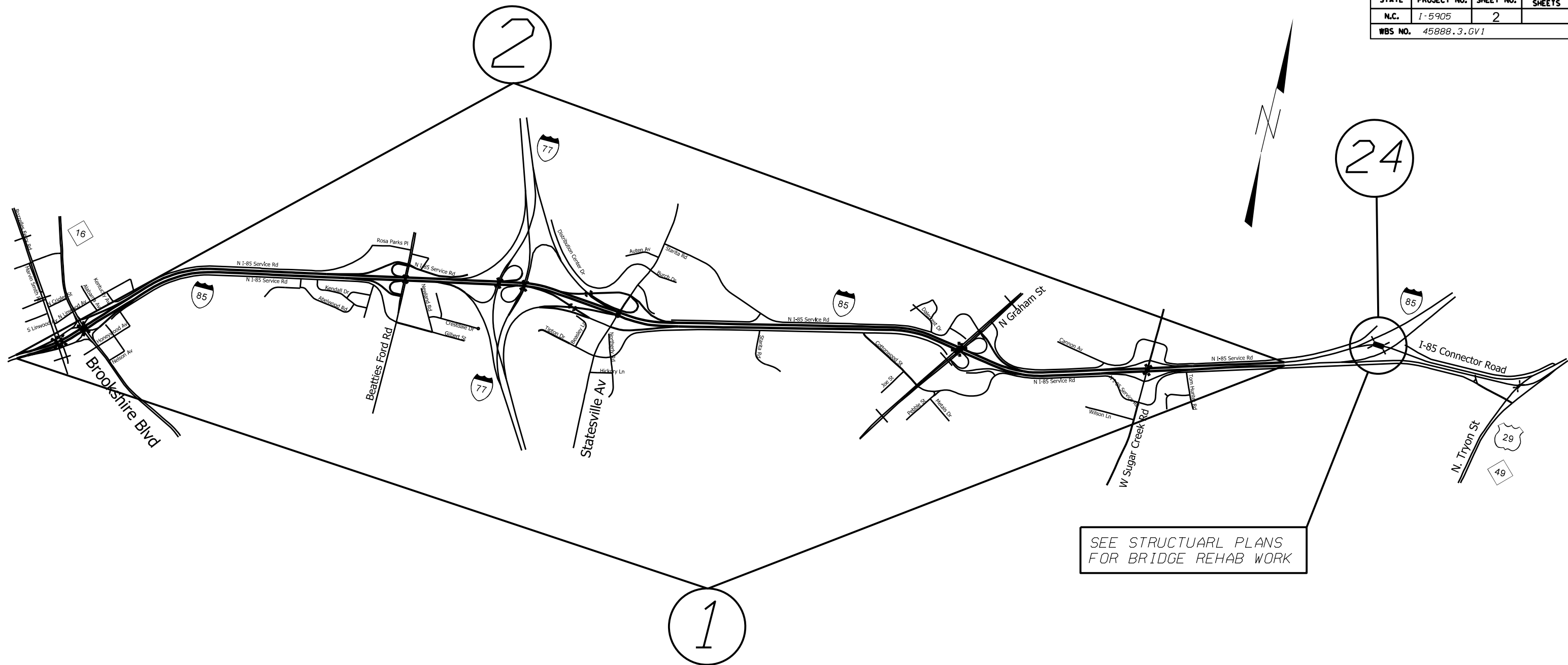
700.01	Concrete Pavement Joints - Construction and Contraction Joints
700.03	Dowel Assembly
700.04	Concrete Pavement Header Board

DIVISION 8 - INCIDENTALS

848.01	Concrete Sidewalk
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09-MAR-2020 10:07  
 S:\DDC\RDY\Mecklenburg\I-5905.Statesville Ave.I-85 off ramp\psh\I-5905.Statesville Ave.I-85.psh1A.dgn  
 8/17/99

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5905	2	
WBS NO. 45888.3.GV1			



MAPS

DESCRIPTION

# 1 I-85 NORTH BOUND

FROM CONCRETE PAVEMENT JOINT SOUTH OF NC 16 BROOKSHIRE BLVD TO CONCRETE PAVEMENT JOINT SOUTH OF THE US 29 BY PASS CONNECTOR ROAD

# 2 I-85 SOUTH BOUND

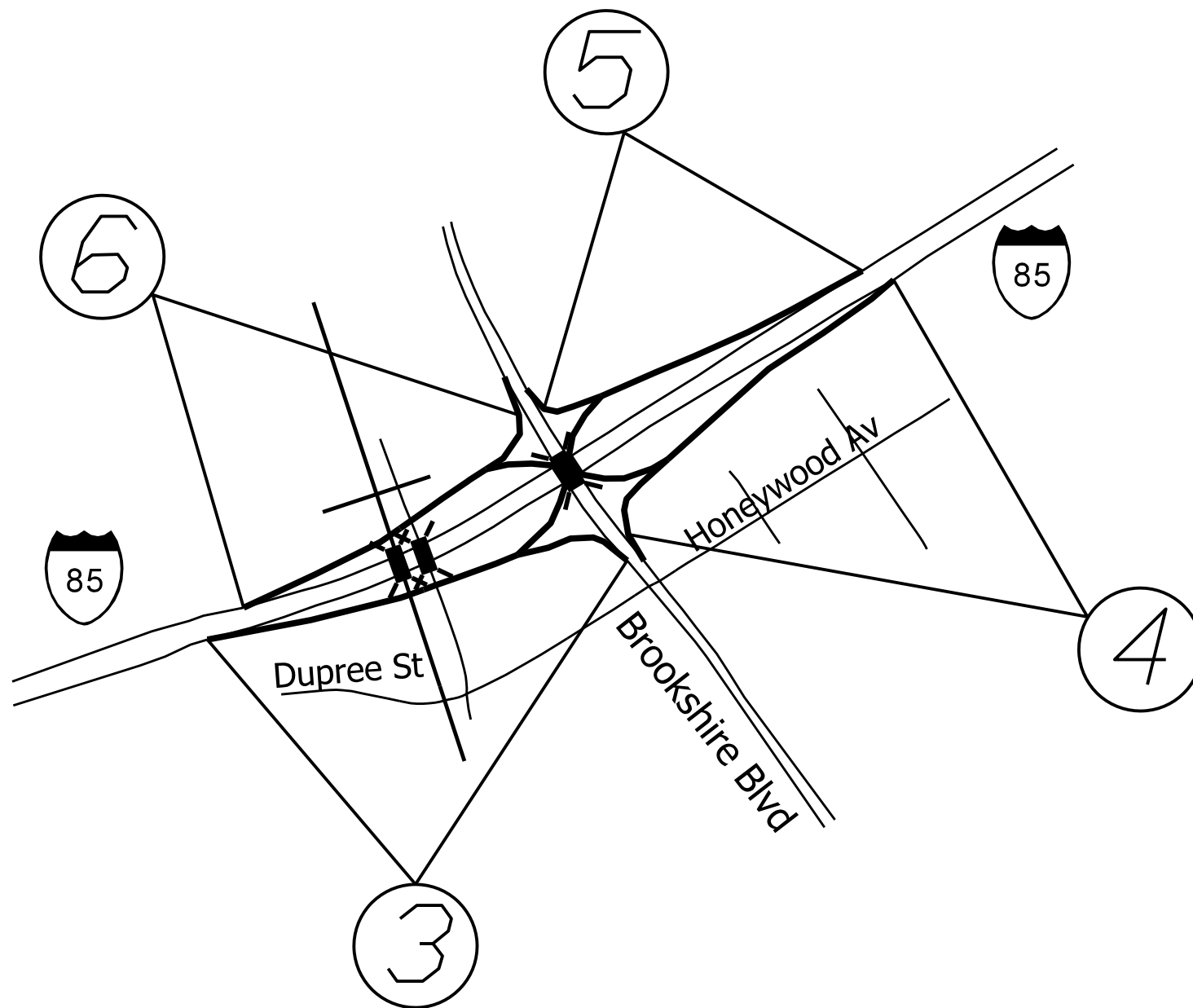
FROM THE CONCRETE JOINT SOUTH THE US 29 BY PASS CONNECTOR TO THE CONCRETE PAVEMENT JOINT SOUTH OF NC 16 BROOKSHIRE BLVD.

# 24 US 29 FLYOVER BRIDGE

OVER I-85

I-5905 I-85 PAVEMENT PRESERVATION MECKLENBURG COUNTY			
SCALE	-1A-		REVISIONS
DATE	3/19		
DWG. BY	JHE		
DESIGN BY	JHE		
APPROVED			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	1-5905	3	
WBS NO.	45888.3.GV1		



MAPS

# 3 NB OFF RAMP

# 4 NB ON RAMP

# 5 SB OFF RAMP

# 6 SB ON RAMP

DESCRIPTION

FROM PHYSICAL GORE TO TOP OF RAMP AT BROOKSHIRE BLVD.

FROM TOP OF RAMP AT BROOKSHIRE BLVD TO PHYSICAL GORE

FROM PHYSICAL GORE TO TOP OF RAMP AT BROOKSHIRE BLVD.

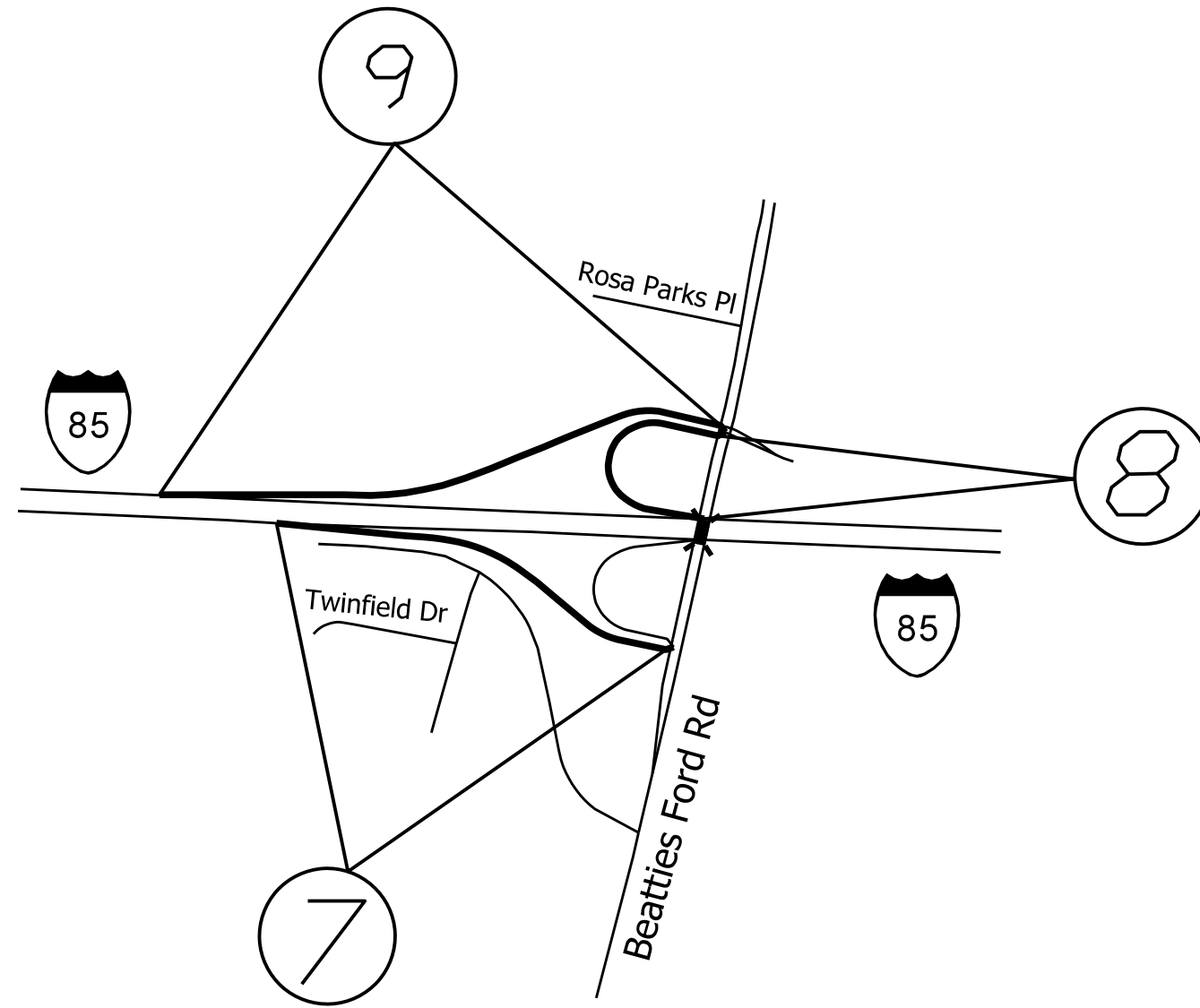
FROM TOP OF RAMP AT BROOKSHIRE BLVD TO PHYSICAL GORE

1-5905  
I-85 PAVEMENT PRESERVATION  
MECKLENBURG COUNTY

SCALE	-NA-		REVISIONS
DATE	3/19		
DWG. BY	JHE		
DESIGN BY	JHE		
APPROVED			



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	1-5905	4	
WBS NO. 45888.3.GV1			



MAPS

DESCRIPTION

#7 NB OFF RAMP

FROM PHYSICAL GORE TO TOP OF RAMP AT BEATTIES FORD RD

#8 SB LOOP OFF RAMP

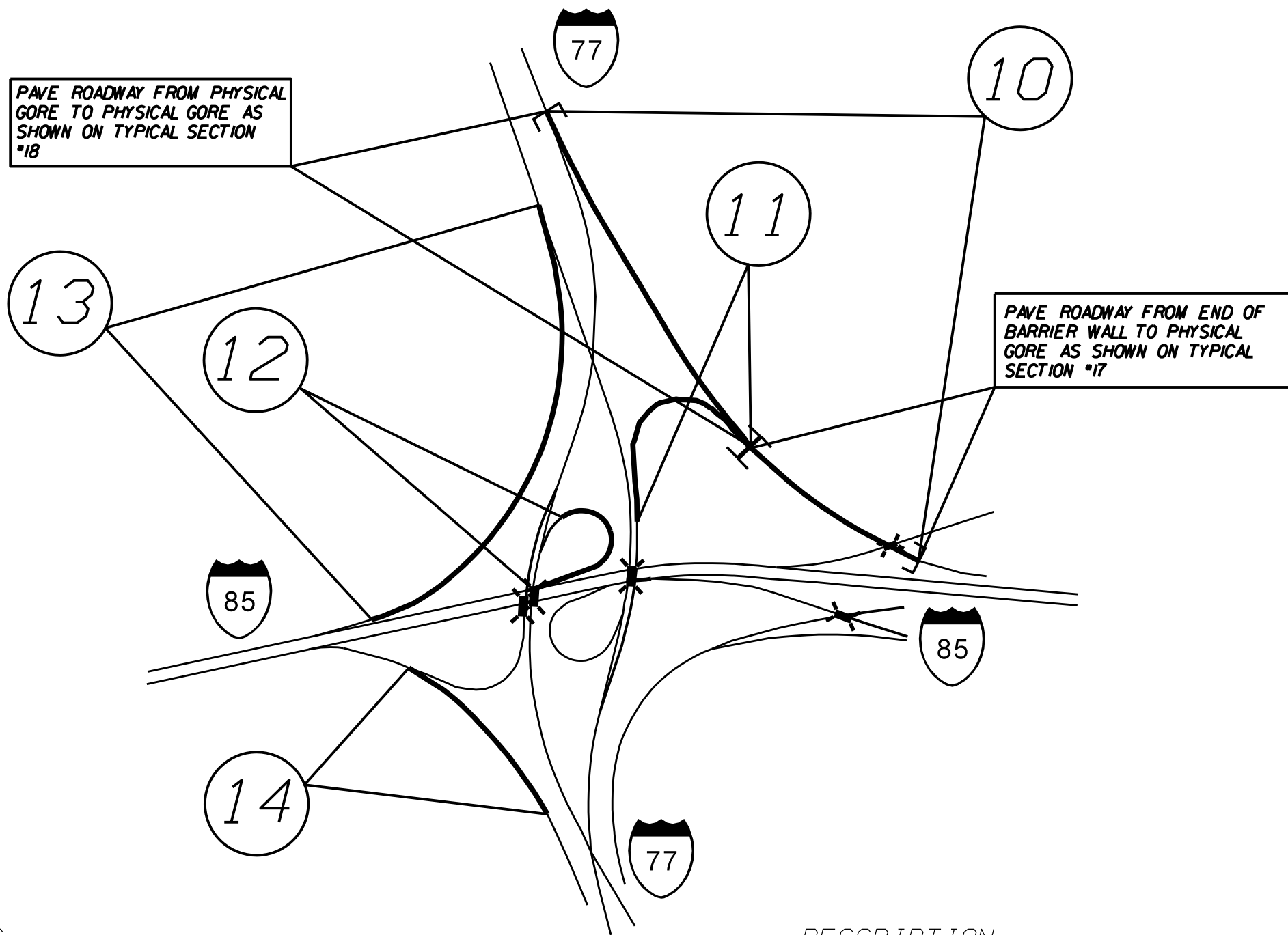
FROM PHYSICAL GORE TO TOP OF LOOP RAMP AT BEATTIES FORD RD.

#9 SB ON RAMP

FROM TOP OF RAMP AT BEATTIES FORD RD TO PHYSICAL GORE

1-5905 I-85 PAVEMENT PRESERVATION MECKLENBURG COUNTY			
SCALE	-NA-		REVISIONS
DATE	3/19		
DWG. BY	JME		
DESIGN BY	JME		
APPROVED			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	1-5905	5	
WBS NO. 45888.3.GV1			



MAPS

- # 10 ON RAMP TO NB I-77
- # 11 LOOP ON RAMP TO SB I-77
- # 12 LOOP ON RAMP TO SB I-85
- # 13 ON RAMP TO SB I-85
- # 14 ON RAMP TO SB I-77

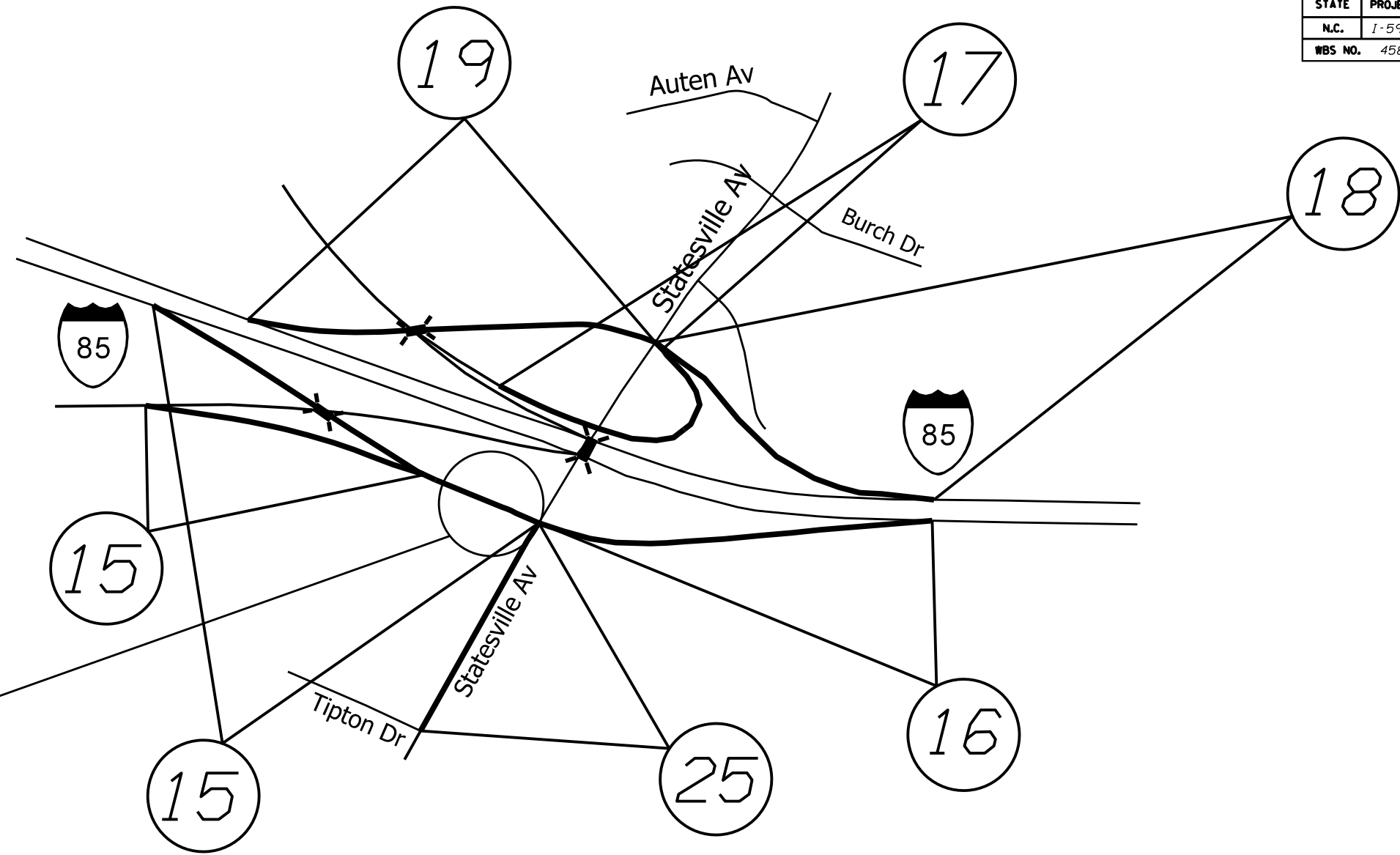
DESCRIPTION

- FROM END OF BARRIER WALL APPROXIMATELY 3240 FEET TO PHYSICAL GORE
- FROM PHYSICAL GORE AT SPLIT TO PHYSICAL GORE
- FROM PHYSICAL GORE TO PHYSICAL GORE
- FROM PHYSICAL GORE TO PHYSICAL GORE
- FROM PAVEMENT JOINT TO APPROXIMATELY 730 FEET DOWN RAMP

I-5905 I-85 PAVEMENT PRESERVATION MECKLENBURG COUNTY		
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DATE	3/19	
DWG. BY	JHE	
DESIGN BY	JHE	
APPROVED		



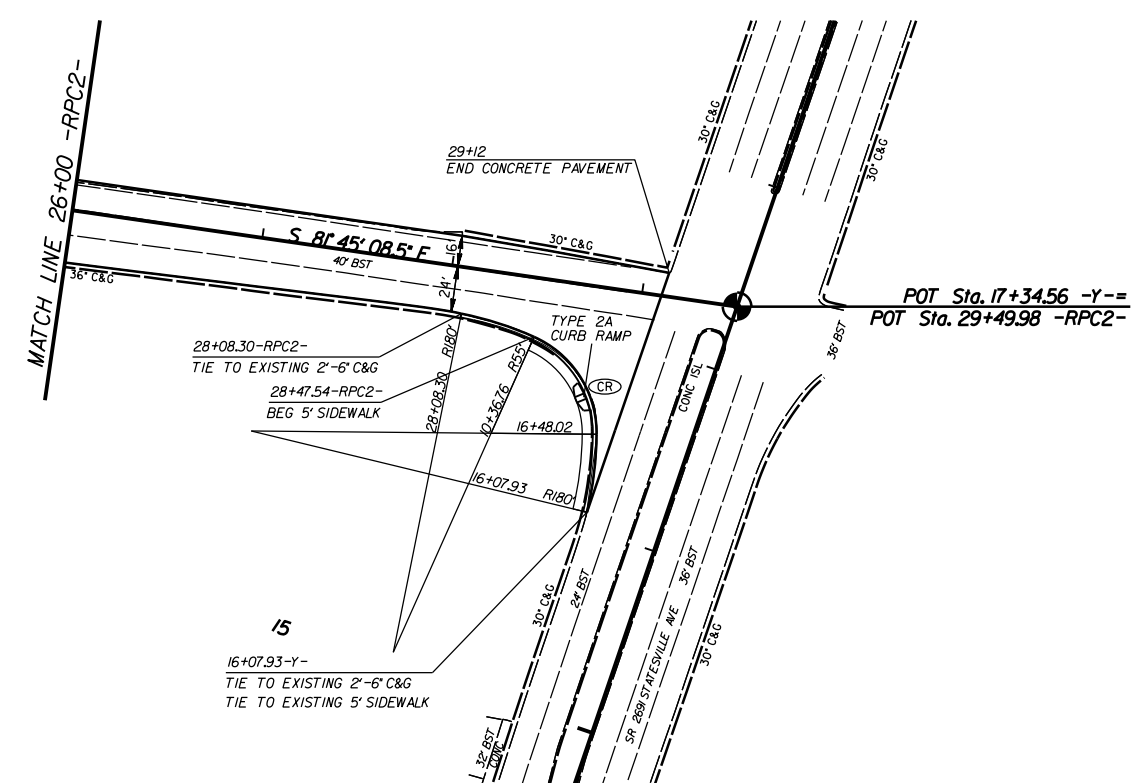
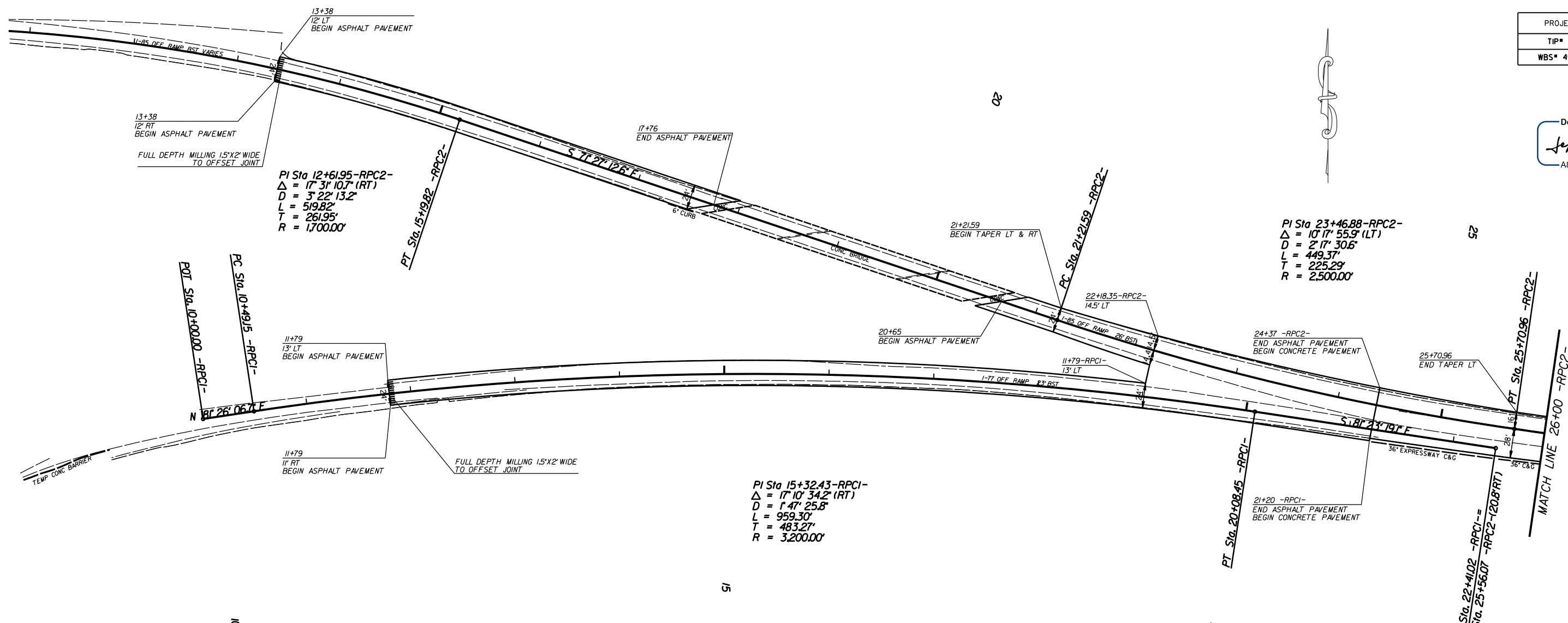
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5905	6	
WBS NO. 45888.3.GV1			



NOTE:  
 MAP # 15 SHALL BE RECONSTRUCTED IN CONCRETE DOWN THE RAMP APPROX. 475 FEET TO THE END OF THE EXPRESSWAY GUTTER, THE REMAINING SECTIONS OF RAMP SHALL BE CONSTRUCTED WITH ASPHALT AS SHOWN ON THE TYPICAL SECTIONS.

MAPS	DESCRIPTION
# 15 NB OFF RAMP	FROM PHYSICAL GORE TO TOP OF RAMP AT STATESVILLE AVE.
# 16 NB ON RAMP	FROM TOP OF RAMP AT STATESVILLE AVE TO PHYSICAL GORE
# 17 SB LOOP ON RAMP	FROM TOP OF LOOP RAMP AT STATESVILLE ROAD TO THE END OF BARRIER WALL
# 18 SB OFF RAMP	FROM PHYSICAL GORE TO TOP OF RAMP AT STATESVILLE ROAD
# 19 SB ON RAMP	FROM TOP OF RAMP AT STATESVILLE ROAD TO PHYSICAL GORE
# 25 SB STATESVILLE AVE	FROM BRIDGE DECK AT I-85 TO TIPTON DRIVE

I-5905 I-85 PAVEMENT PRESERVATION MECKLENBURG COUNTY		
SCALE	-HA-	
DATE	3/19	
DWG. BY	JHE	
DESIGN BY	JHE	
APPROVED		REVISIONS



I-85 PAVEMENT PRESERVATION  
MECKLENBURG COUNTY

SCALE	1"=50'
DATE	1-2020
DWG. BY	TBL
DESIGN BY	TBL
APPROVED	JHE

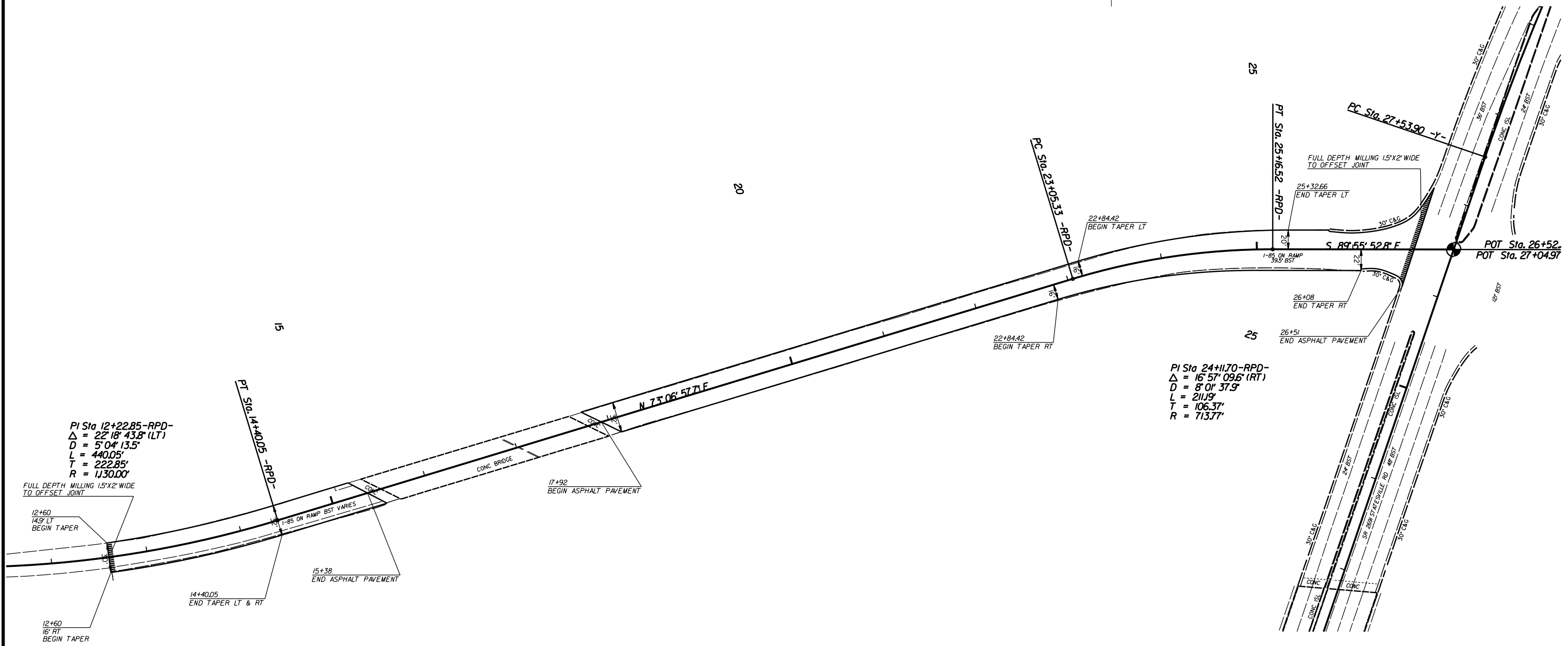
REVISIONS

ROADWAY DESIGN  
ENGINEER


Professional Seal: J. S. Little, No. 035674, State of North Carolina

Signature: J. S. Little

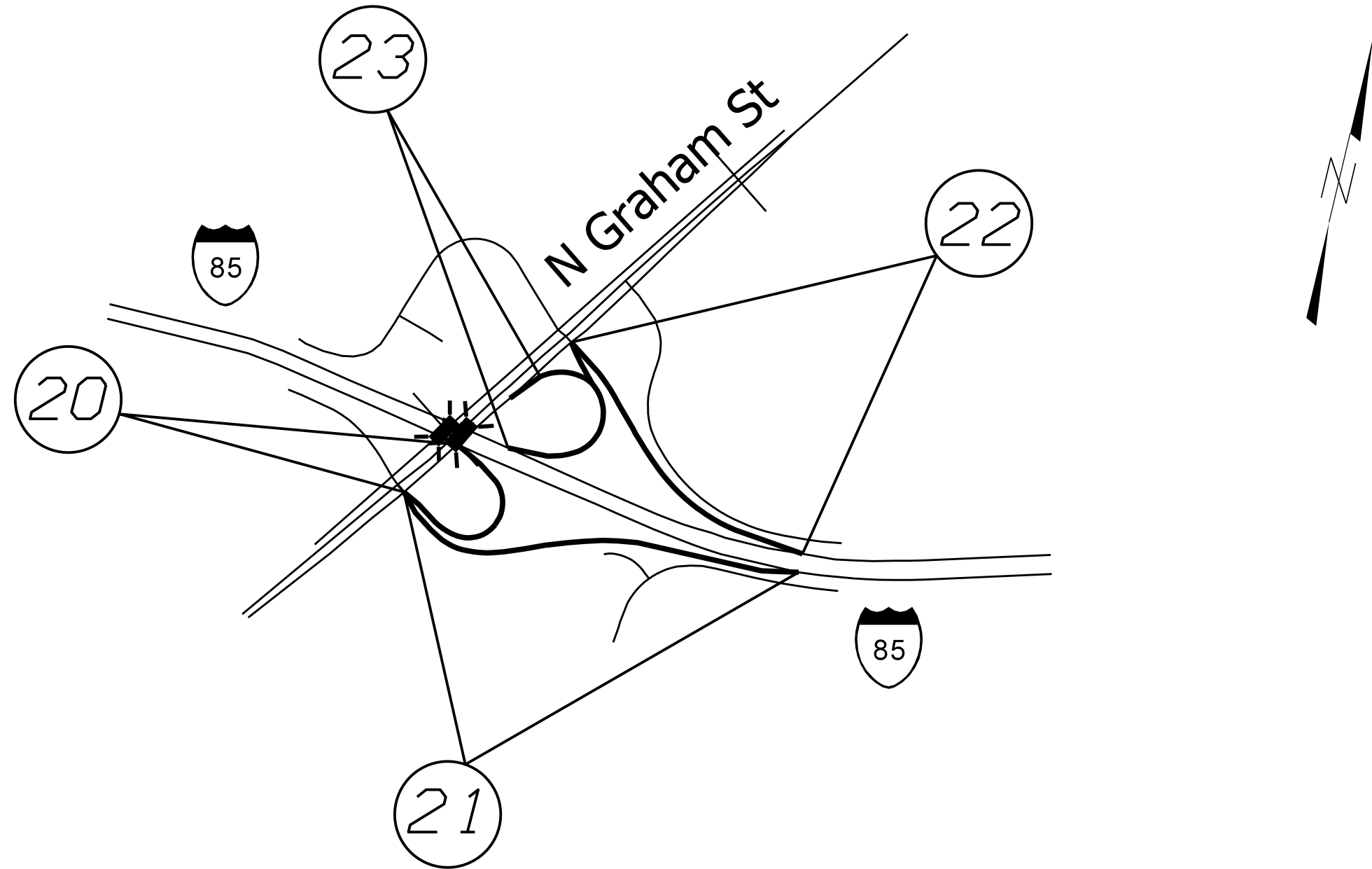
Date: 3/4/2020



I-85 PAVEMENT PRESERVATION  
MECKLENBURG COUNTY

SCALE	1"=50'		REVISIONS
DATE	1-2020		
DWG. BY	TBL		
DESIGN BY	TBL		
APPROVED	JHE		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5905	7	
WBS NO.		45888.3.GV1	



MAPS

DESCRIPTION

- # 20 NB LOOP OFF RAMP
- # 21 NB ON RAMP
- # 22 SB OFF RAMP
- # 23 SB LOOP ON RAMP

FROM PHYSICAL GORE TO TOP OF LOOP RAMP AT N. GRAHAM ST.

FROM TOP OF RAMP AT N. GRAHAM ST. TO PHYSICAL GORE

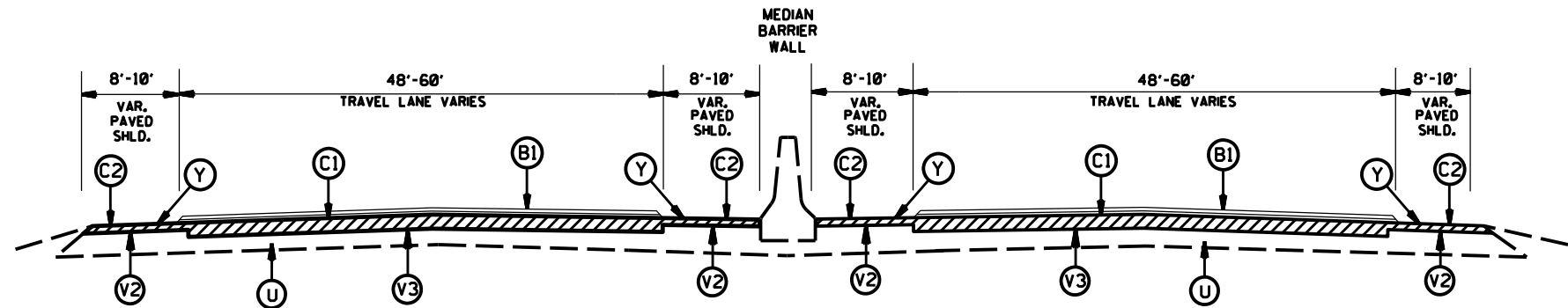
FROM PHYSICAL GORE TO TOP OF RAMP AT N. GRAHAM ST.

FROM TOP OF LOOP RAMP AT N. GRAHAM ST. TO PHYSICAL GORE

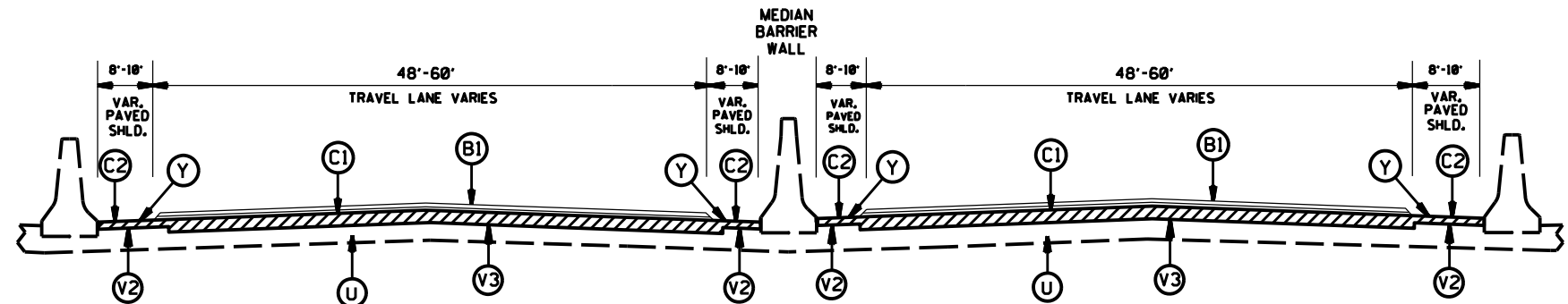
I-5905 I-85 PAVEMENT PRESERVATION MECKLENBURG COUNTY		
SCALE	-RA-	
DATE	3/19	
DWG. BY	JME	
DESIGN BY	JME	
APPROVED		
		REVISIONS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5905	8	
WBS NO. 45888.3.GVI			

PAVEMENT SCHEDULE	
A1	PROP. 11" PORTLAND CEMENT CONCRETE PAVEMENT
B1	PROP. APPROX. 5/8" ULTRA-THIN BONDED WEARING 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 S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C3	PROP. APPROX. 3.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, IN 2 SEPARATE 1.5" LIFTS AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 4.0" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROP. APPROX. 4.0" ASPHALT CONCRETE BASE COURSE, B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E2	PROP. APPROX. 8.0" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, IN 2 SEPARATE 4" LIFTS AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
R1	PROP. 2'6" CONCRETE CURB AND GUTTER 11" THICK
T	SHOULDER CONSTRUCTION
U	EXISTING PAVEMENT
V2	MILLING 1.5" DEPTH
V3	MILLING, 2.0" DEPTH
Y	MILLED RUMBLE STRIPS
Z	EXISTING STABILIZED SUBGRADE

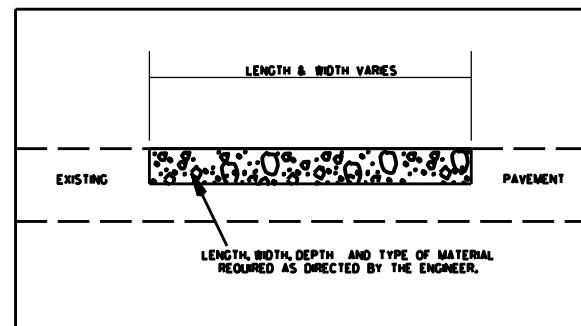


TYPICAL SECTION NO.1  
I-85 NORTH & SOUTH BOUND



TYPICAL SECTION NO.2  
I-85 NORTH & SOUTH BOUND

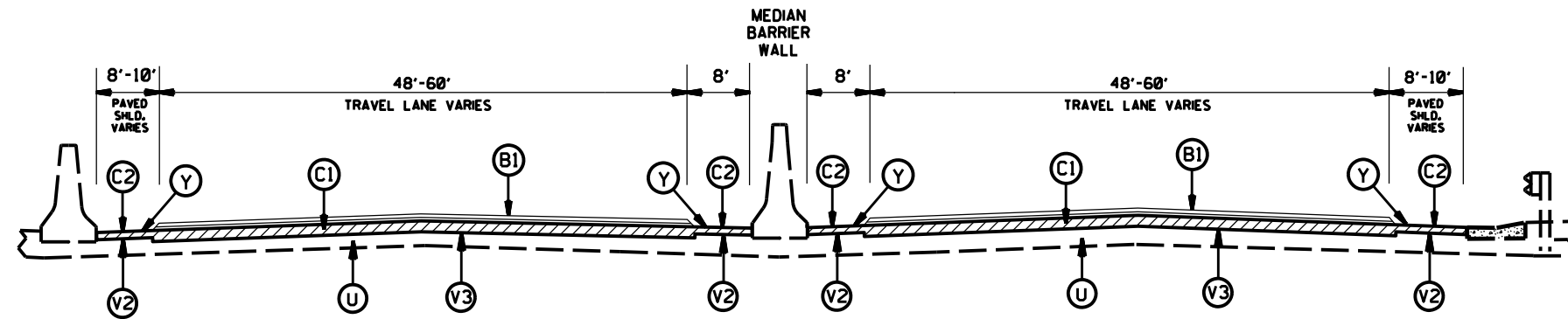
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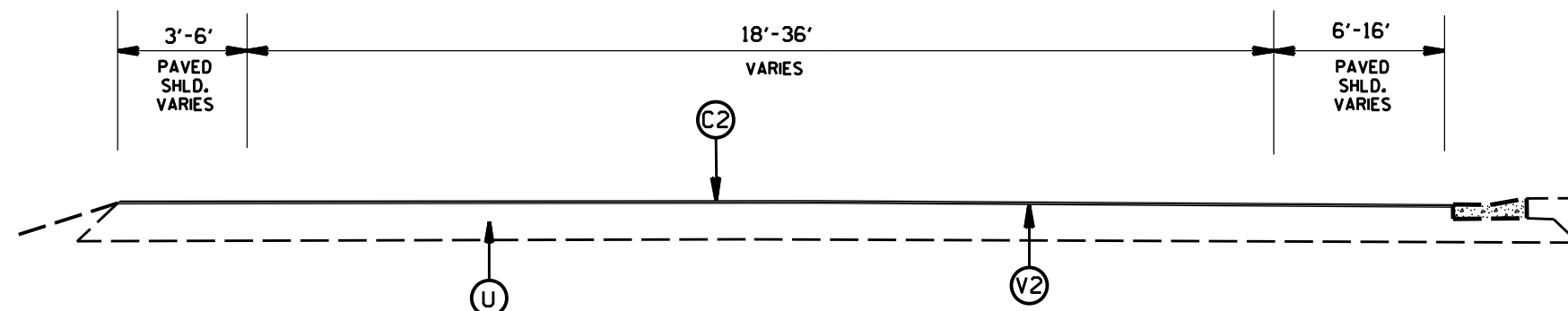
I-5905  
I-85 PAVEMENT PRESERVATION  
MECKLENBURG COUNTY

SCALE	-NA-		REVISIONS
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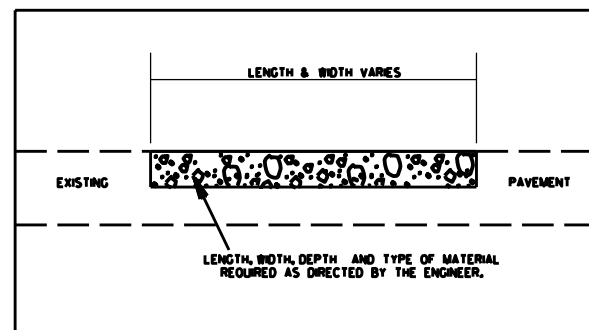


TYPICAL SECTION NO.3  
I-85 NORTH & SOUTH BOUND



TYPICAL SECTION NO.4  
RAMP

PATCHING DETAIL



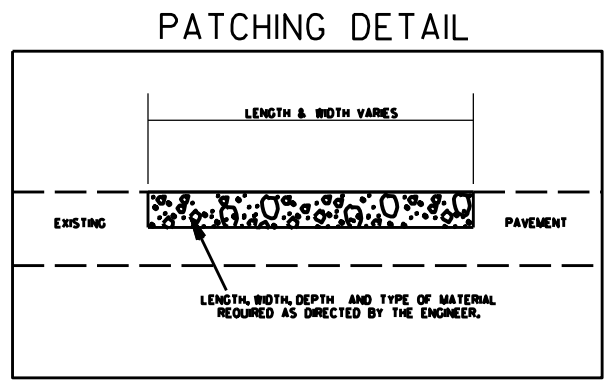
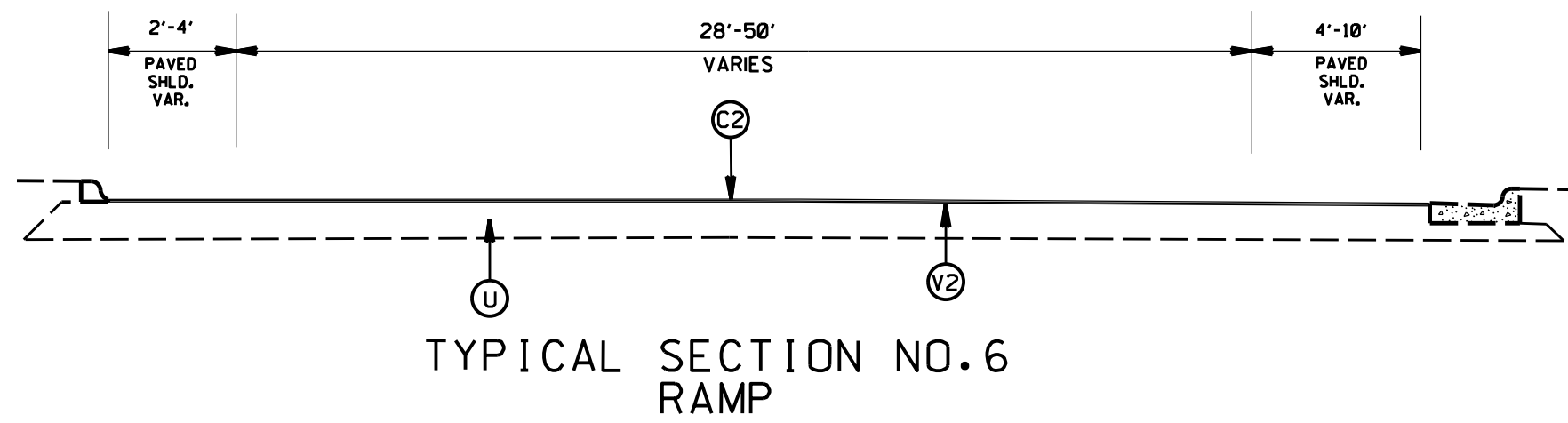
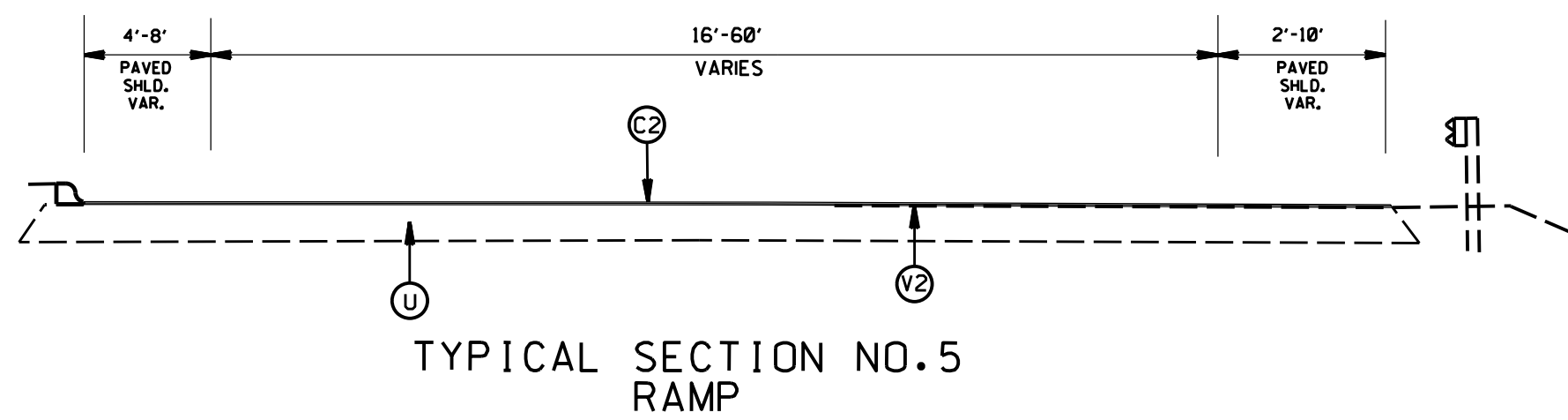
I-5905  
I-85 PAVEMENT PRESERVATION  
MECKLENBURG COUNTY

SCALE	-NA-		REVISIONS
DATE	3/19		
DWG. BY	JHE		
DESIGN BY	JHE		
APPROVED			



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N.C.	I-5905	10	
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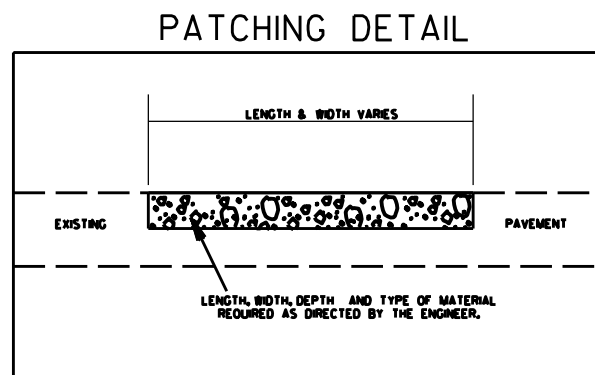
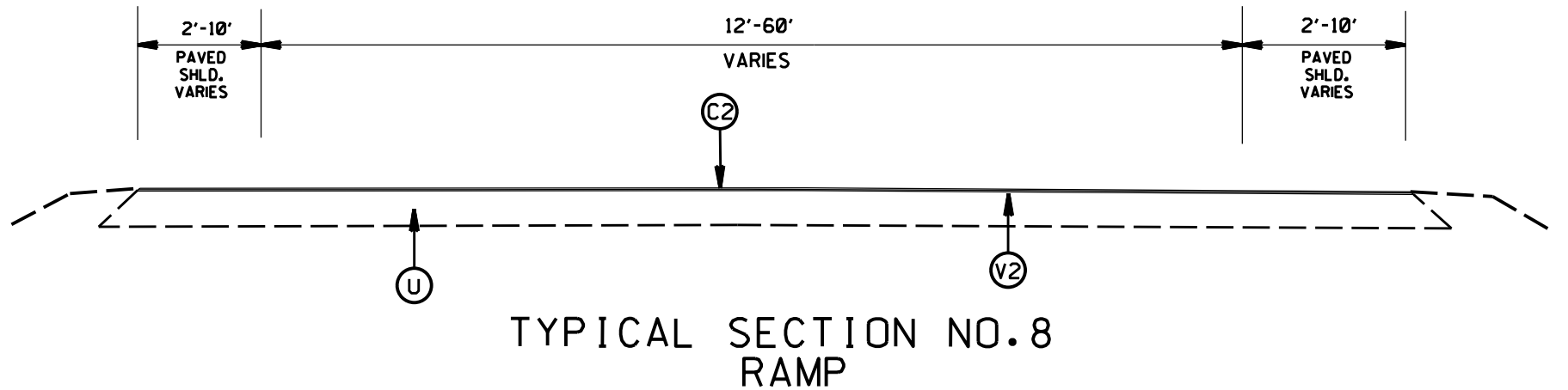
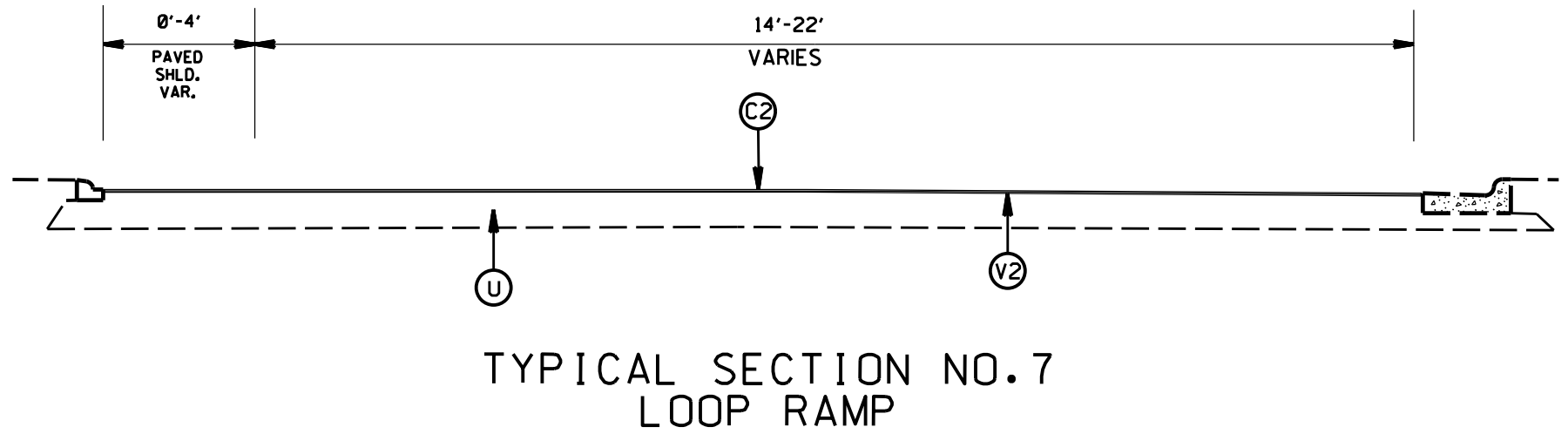



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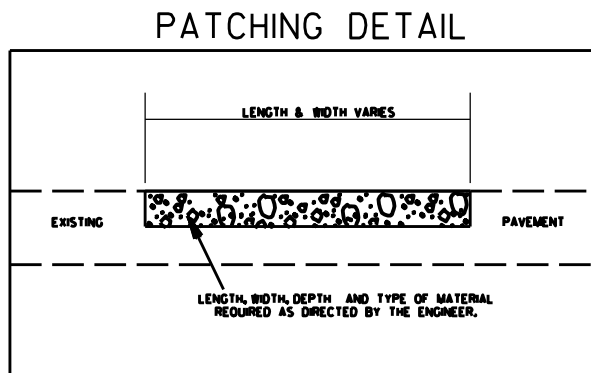
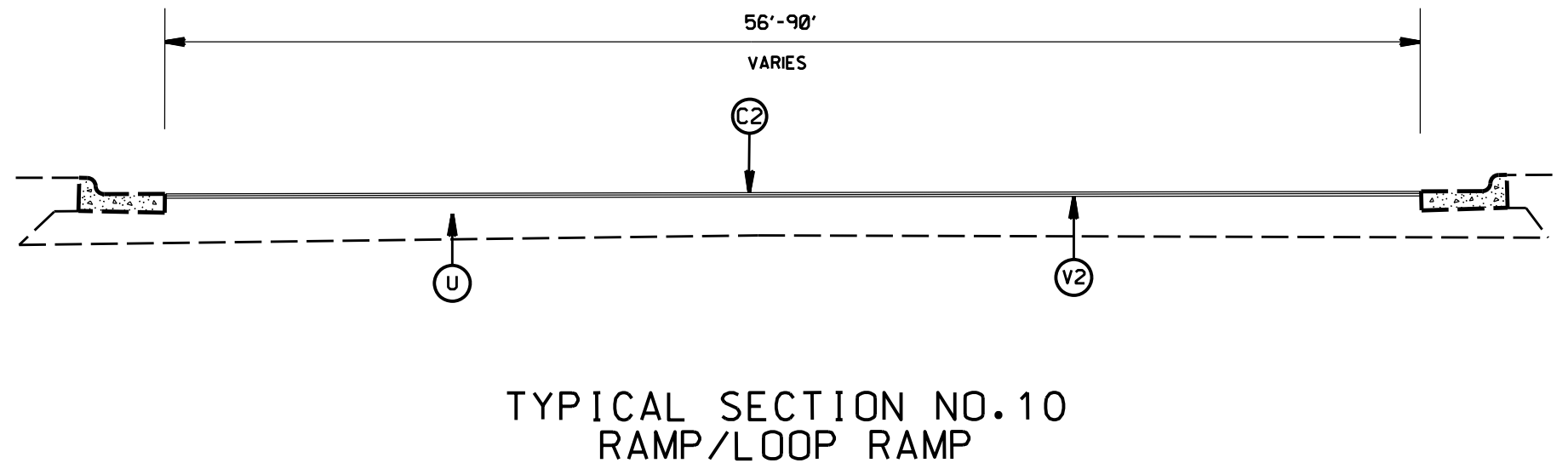
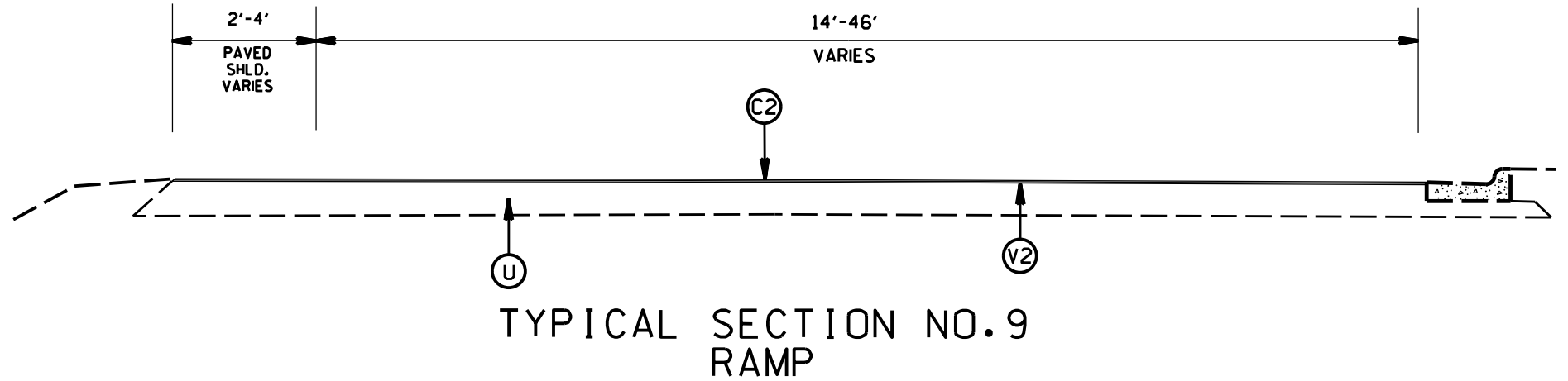
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DESIGN BY	JME		
APPROVED			

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N.C.	I-5905	12	
WBS NO. 45888.3.GVI			

PAVEMENT SCHEDULE	
A1	PROP. 11" PORTLAND CEMENT CONCRETE PAVEMENT
B1	PROP. APPROX. 5/8" ULTRA-THIN BONDED WEARING 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 S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C3	PROP. APPROX. 3.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, IN 2 SEPARATE 1.5" LIFTS AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 4.0" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROP. APPROX. 4.0" ASPHALT CONCRETE BASE COURSE, B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E2	PROP. APPROX. 8.0" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, IN 2 SEPARATE 4" LIFTS AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
R1	PROP. 2'6" CONCRETE CURB AND GUTTER 11" THICK
T	SHOULDER CONSTRUCTION
U	EXISTING PAVEMENT
V2	MILLING 1.5" DEPTH
V3	MILLING, 2.0" DEPTH
Y	MILLED RUMBLE STRIPS
Z	EXISTING STABILIZED SUBGRADE

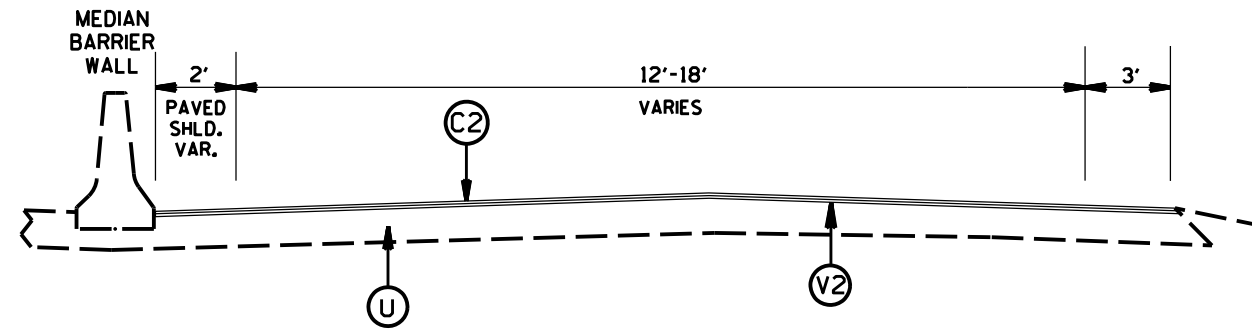


I-5905 I-85 PAVEMENT PRESERVATION MECKLENBURG COUNTY										
SCALE	-NA-	<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	REVISIONS							
REVISIONS										
DATE	3/19									
DWG. BY	JHE									
DESIGN BY	JHE									
APPROVED										

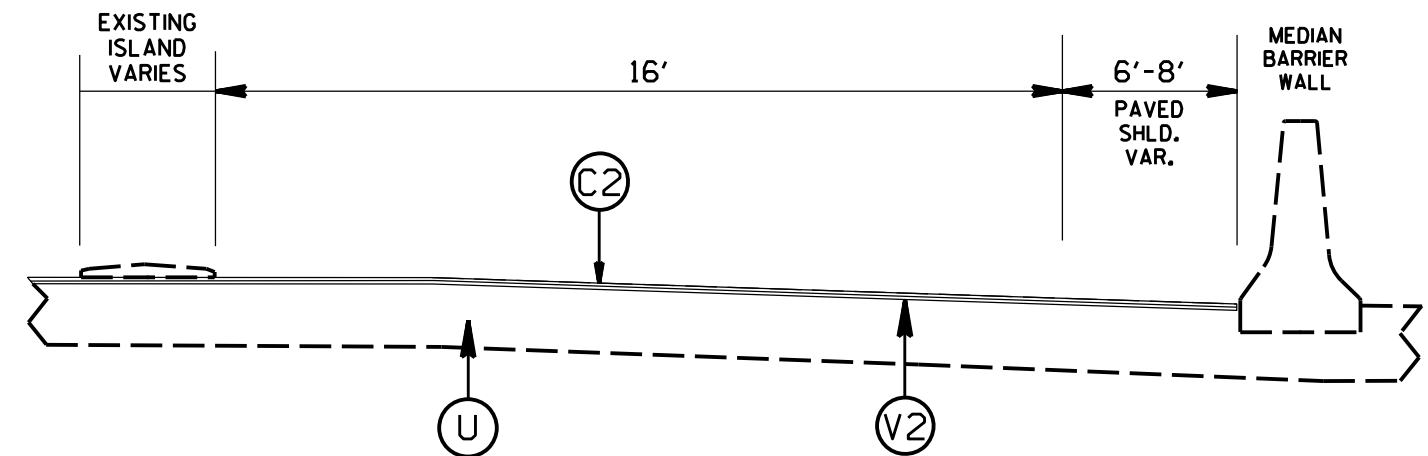


STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5905	13	
WBS NO. 45888.3.GVI			

PAVEMENT SCHEDULE	
A1	PROP. 11" PORTLAND CEMENT CONCRETE PAVEMENT
B1	PROP. APPROX. 5/8" ULTRA-THIN BONDED WEARING 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.
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R1	PROP. 2'6" CONCRETE CURB AND GUTTER 11" THICK
T	SHOULDER CONSTRUCTION
U	EXISTING PAVEMENT
V2	MILLING 1.5" DEPTH
V3	MILLING, 2.0" DEPTH
Y	MILLED RUMBLE STRIPS
Z	EXISTING STABILIZED SUBGRADE

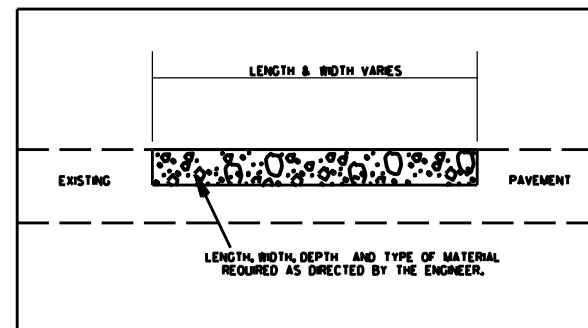


TYPICAL SECTION NO.13  
LOOP RAMP



TYPICAL SECTION NO.14  
RAMP

PATCHING DETAIL



I-5905  
I-85 PAVEMENT PRESERVATION  
MECKLENBURG COUNTY

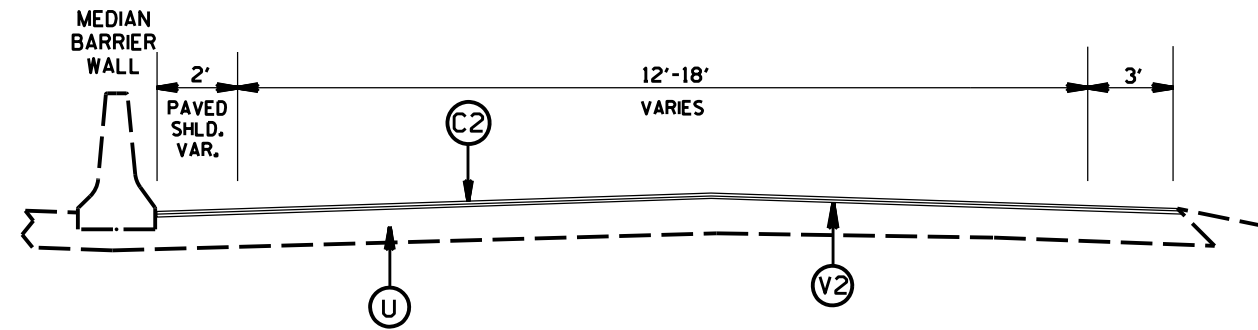
SCALE	-NA-
DATE	3/19
DWG. BY	JHE
DESIGN BY	JHE
APPROVED	



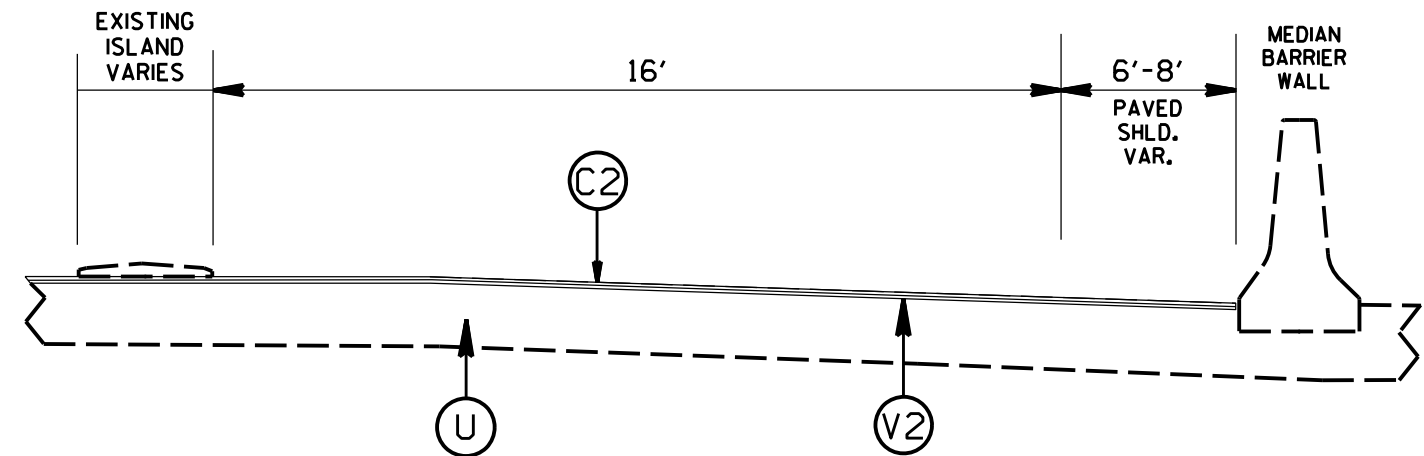
REVISIONS


STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5905	14	
WBS NO. 45888.3.GVI			

PAVEMENT SCHEDULE	
A1	PROP. 11" PORTLAND CEMENT CONCRETE PAVEMENT
B1	PROP. APPROX. 5/8" ULTRA-THIN BONDED WEARING 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.
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R1	PROP. 2'6" CONCRETE CURB AND GUTTER 11" THICK
T	SHOULDER CONSTRUCTION
U	EXISTING PAVEMENT
V2	MILLING 1.5" DEPTH
V3	MILLING, 2.0" DEPTH
Y	MILLED RUMBLE STRIPS
Z	EXISTING STABILIZED SUBGRADE

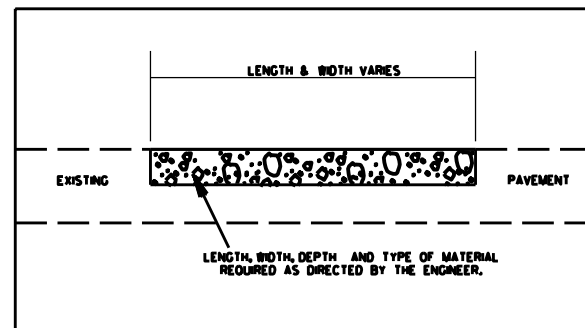


TYPICAL SECTION NO.13  
LOOP RAMP



TYPICAL SECTION NO.14  
RAMP

PATCHING DETAIL

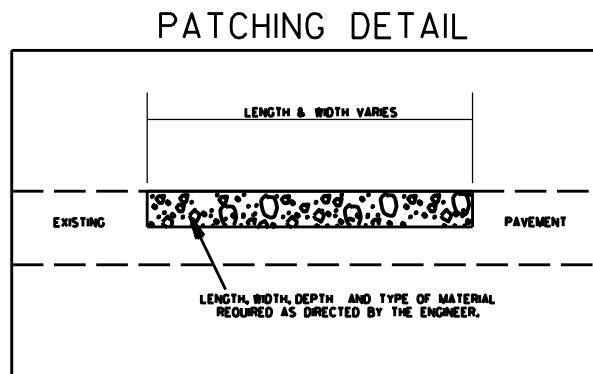
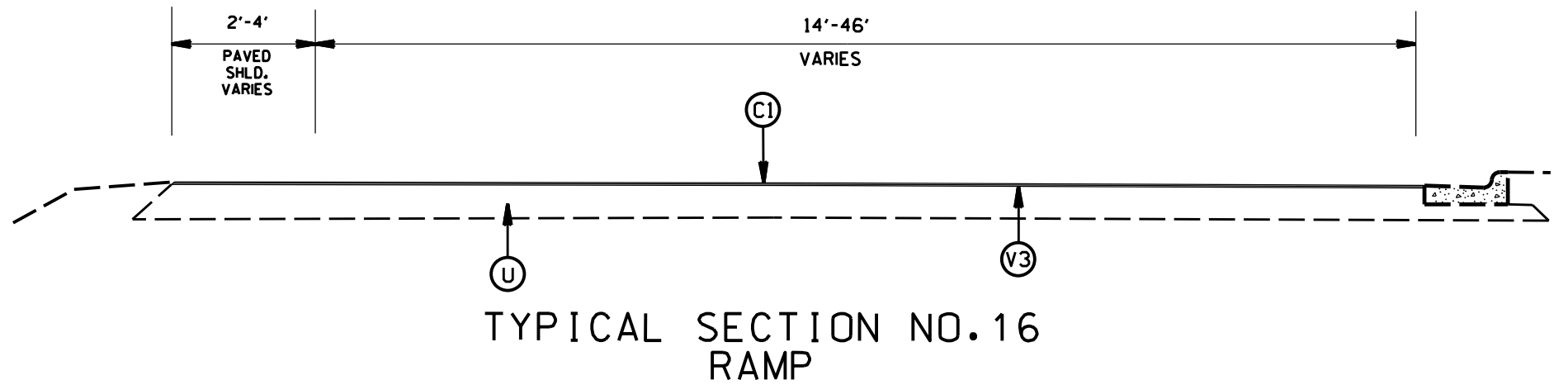
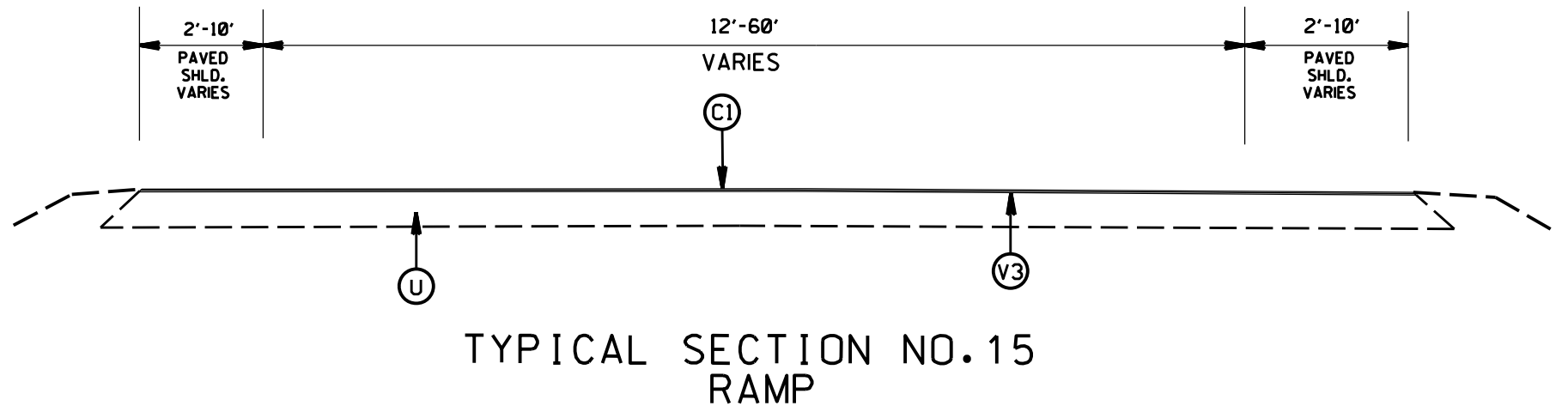


I-5905 I-85 PAVEMENT PRESERVATION MECKLENBURG COUNTY		
SCALE	-NA-	REVISIONS
DATE	3/19	
DWG. BY	JHE	
DESIGN BY	JHE	
APPROVED		



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5905	15	
WBS NO. 45888.3.GVI			

PAVEMENT SCHEDULE	
A1	PROP. 11" PORTLAND CEMENT CONCRETE PAVEMENT
B1	PROP. APPROX. 5/8" ULTRA-THIN BONDED WEARING 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 S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
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D1	PROP. APPROX. 4.0" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROP. APPROX. 4.0" ASPHALT CONCRETE BASE COURSE, B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E2	PROP. APPROX. 8.0" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, IN 2 SEPARATE 4" LIFTS AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
R1	PROP. 2'6" CONCRETE CURB AND GUTTER 11" THICK
T	SHOULDER CONSTRUCTION
U	EXISTING PAVEMENT
V2	MILLING 1.5" DEPTH
V3	MILLING, 2.0" DEPTH
Y	MILLED RUMBLE STRIPS
Z	EXISTING STABILIZED SUBGRADE

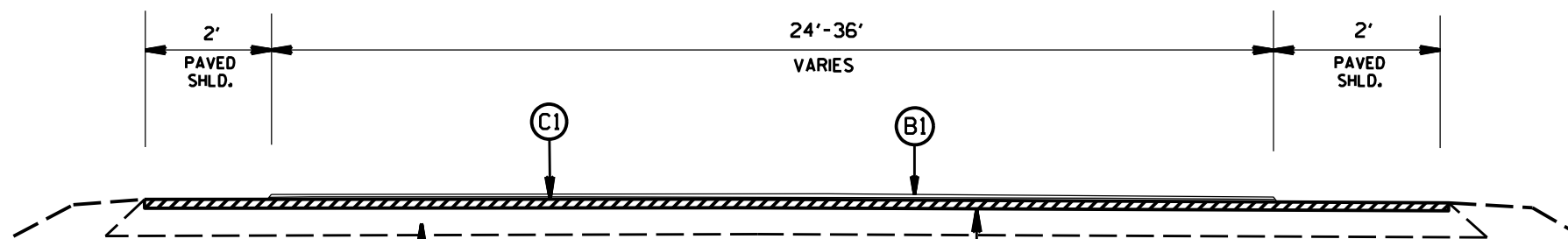


I-5905  
I-85 PAVEMENT PRESERVATION  
MECKLENBURG COUNTY

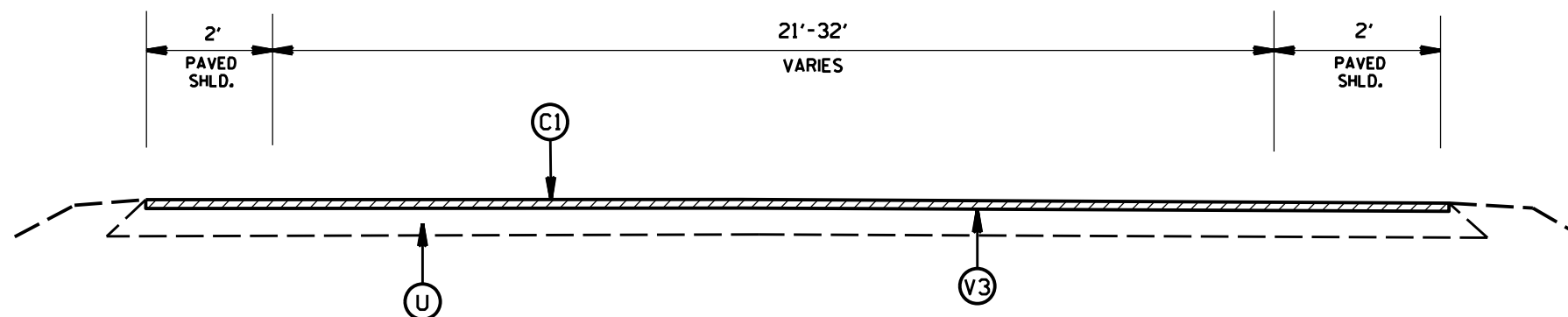
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DATE	3/19		
DWG. BY	JHE		
DESIGN BY	JHE		
APPROVED			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5905	16	
WBS NO.	45888.3.GVI		

PAVEMENT SCHEDULE	
A1	PROP. 11" PORTLAND CEMENT CONCRETE PAVEMENT
B1	PROP. APPROX. 5/8" ULTRA-THIN BONDED WEARING 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.
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T	SHOULDER CONSTRUCTION
U	EXISTING PAVEMENT
V2	MILLING 1.5" DEPTH
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Z	EXISTING STABILIZED SUBGRADE

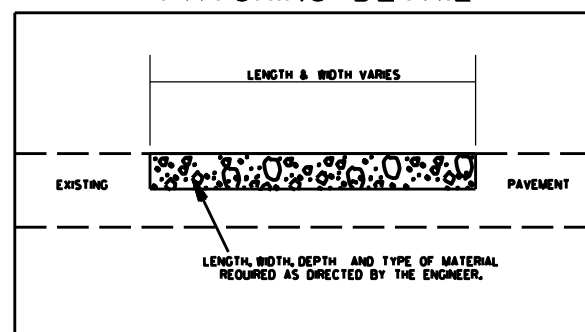


TYPICAL SECTION NO.17  
RAMP FROM SB I-85 TO I-77



TYPICAL SECTION NO.18  
RAMP FROM SB I-85 TO NB I-77

PATCHING DETAIL



I-5905  
I-85 PAVEMENT PRESERVATION  
MECKLENBURG COUNTY

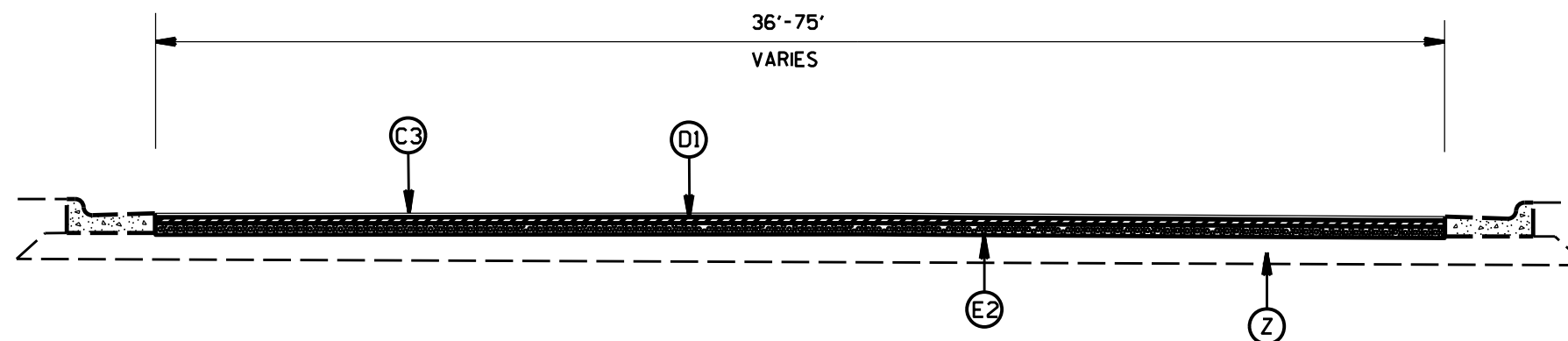
SCALE	-NA-
DATE	3/19
DWG. BY	JHE
DESIGN BY	JHE
APPROVED	



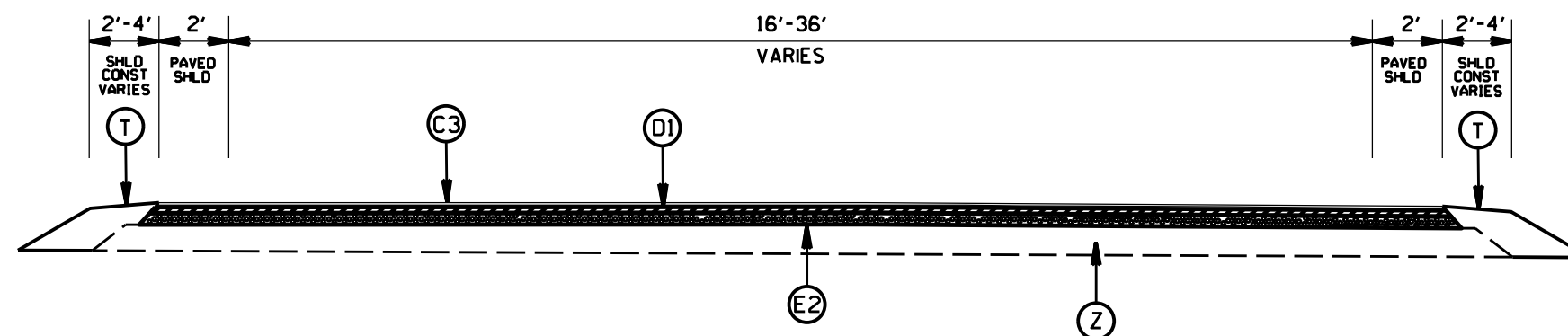
REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5905	17	
WBS NO. 45888.3.GVI			

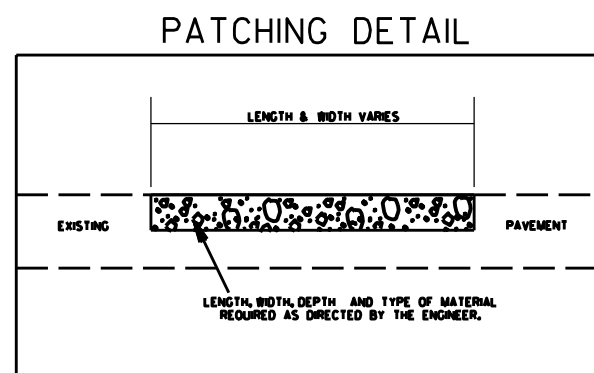
PAVEMENT SCHEDULE	
A1	PROP. 11" PORTLAND CEMENT CONCRETE PAVEMENT
B1	PROP. APPROX. 5/8" ULTRA-THIN BONDED WEARING COURSE, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
C1	PROP. APPROX. 2.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C3	PROP. APPROX. 3.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, IN 2 SEPARATE 1.5" LIFTS AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 4.0" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROP. APPROX. 4.0" ASPHALT CONCRETE BASE COURSE, B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E2	PROP. APPROX. 8.0" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, IN 2 SEPARATE 4" LIFTS AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
R1	PROP. 2'6" CONCRETE CURB AND GUTTER 11" THICK
T	SHOULDER CONSTRUCTION
U	EXISTING PAVEMENT
V2	MILLING 1.5" DEPTH
V3	MILLING, 2.0" DEPTH
Y	MILLED RUMBLE STRIPS
Z	EXISTING STABILIZED SUBGRADE



TYPICAL SECTION NO.19  
ON RAMP FROM STATESVILLE ROAD



TYPICAL SECTION NO.20  
ON RAMP FROM STATESVILLE ROAD



SUMMARY OF EARTHWORK		
DESCRIPTION	MAP #15	MAP #19
UNCLASSIFIED EXCAVATION	2146 CY	1282 CY
BORROW EXCAVATION	100 CY	100 CY
REMOVAL OF EXISTING ASPHALT PAVEMENT	8360 SY	5186 SY
SHOULDER CONSTRUCTION	0.72 SMI	0.45 SMI

NOTE: QUANTITIES ARE APPROXIMATE, AND ARE ONLY TO BE USED FOR THE PURPOSE OF BIDDING THIS CONTRACT. PAYMENT FOR EARTH WORK QUANTITIES WILL BE COVERED UNDER COMPREHENSIVE GRADING AS A LUMP SUM PAY ITEM AS DETERMINED BY THE RESIDENT ENGINEER.

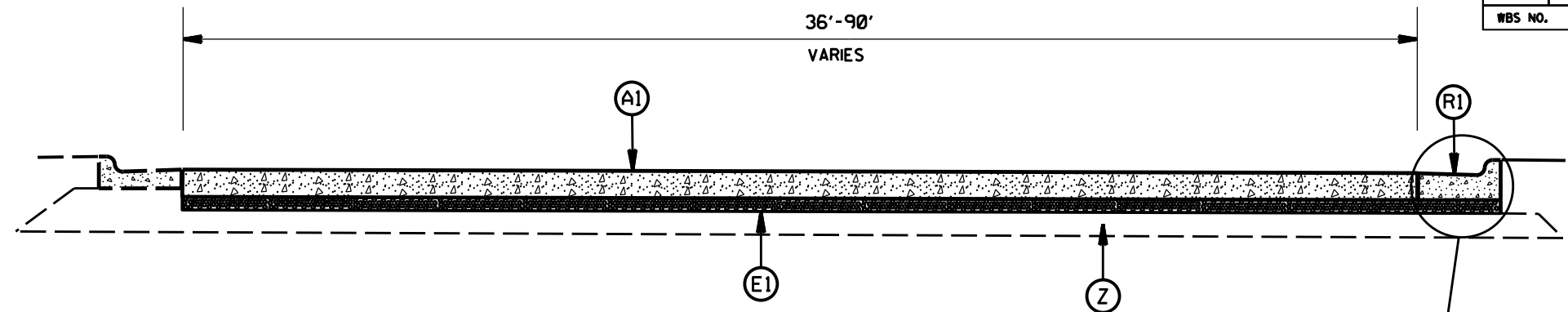
I-5905  
I-85 PAVEMENT PRESERVATION  
MECKLENBURG COUNTY

SCALE	-NA-		REVISIONS
DATE	3/19		
DWG. BY	JHE		
DESIGN BY	JHE		
APPROVED			

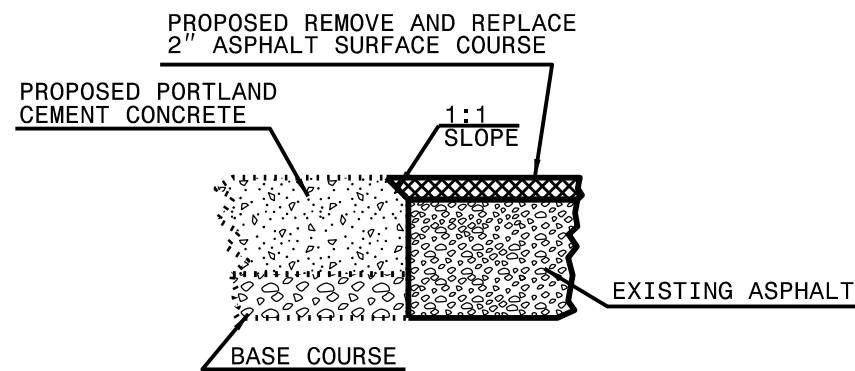


STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5905	18	
WBS NO. 45888.3.GVI			

PAVEMENT SCHEDULE	
A1	PROP. 11" PORTLAND CEMENT CONCRETE PAVEMENT
B1	PROP. APPROX. 5/8" ULTRA-THIN BONDED WEARING 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 S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
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E1	PROP. APPROX. 4.0" ASPHALT CONCRETE BASE COURSE, B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E2	PROP. APPROX. 8.0" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, IN 2 SEPARATE 4" LIFTS AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
R1	PROP. 2'6" CONCRETE CURB AND GUTTER 11" THICK
T	SHOULDER CONSTRUCTION
U	EXISTING PAVEMENT
V2	MILLING 1.5" DEPTH
V3	MILLING, 2.0" DEPTH
Y	MILLED RUMBLE STRIPS
Z	EXISTING STABILIZED SUBGRADE

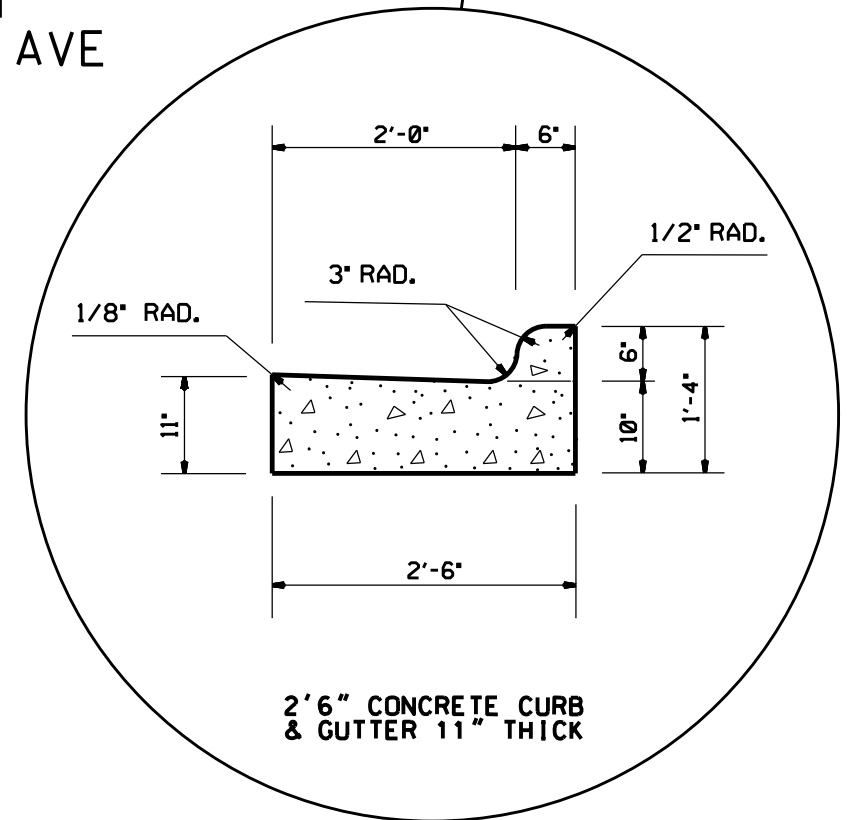


TYPICAL SECTION NO.21  
OFF RAMP TO STATESVILLE AVE

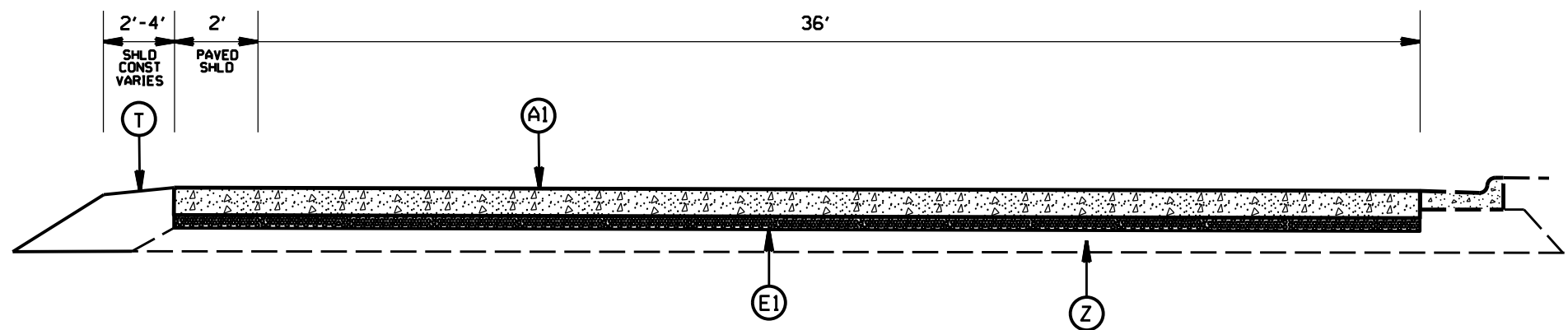


LONGITUDINAL JOINT

PROPOSED PORTLAND CEMENT CONCRETE  
TO  
PROPOSED ASPHALT SURFACE COURSE



2'6" CONCRETE CURB  
& GUTTER 11" THICK



TYPICAL SECTION NO.22  
TO RAMP TO STATESVILLE AVE

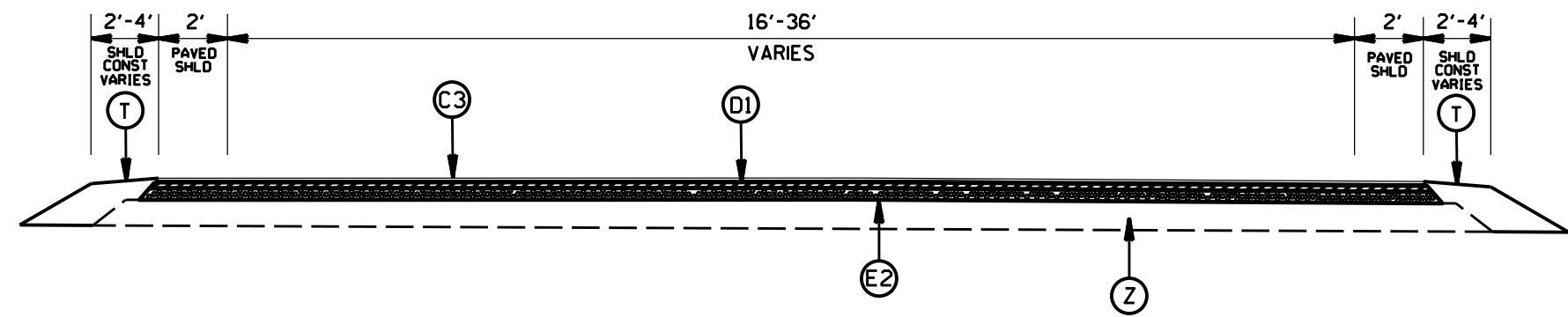
I-5905  
I-85 PAVEMENT PRESERVATION  
MECKLENBURG COUNTY

SCALE	-NA-		REVISIONS
DATE	3/19		
DWG. BY	JHE		
DESIGN BY	JHE		
APPROVED			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	1-5905	19	
WBS NO. 45888.3.GVI			

### PAVEMENT SCHEDULE

A1	PROP. 11" PORTLAND CEMENT CONCRETE PAVEMENT
B1	PROP. APPROX. 5/8" ULTRA-THIN BONDED WEARING 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 S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
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E1	PROP. APPROX. 4.0" ASPHALT CONCRETE BASE COURSE, B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E2	PROP. APPROX. 8.0" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, IN 2 SEPARATE 4" LIFTS AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
R1	PROP. 2'6" CONCRETE CURB AND GUTTER 11" THICK
T	SHOULDER CONSTRUCTION
U	EXISTING PAVEMENT
V2	MILLING 1.5" DEPTH
V3	MILLING, 2.0" DEPTH
Y	MILLED RUMBLE STRIPS
Z	EXISTING STABILIZED SUBGRADE

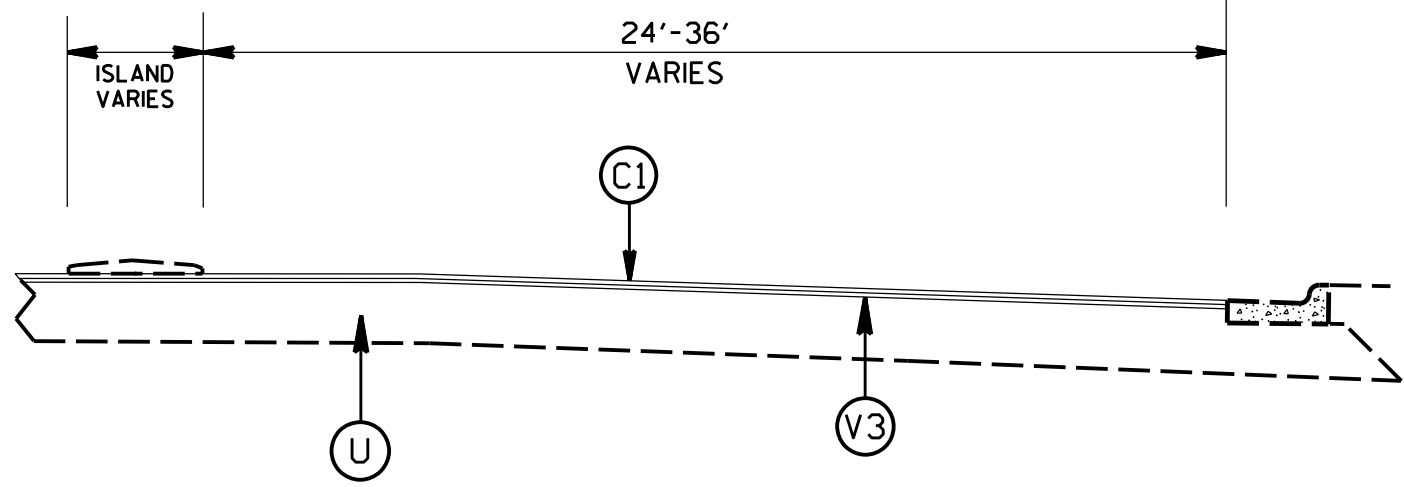


TYPICAL SECTION NO.23  
OFF RAMP TO STATESVILLE AVE

### SUMMARY OF EARTHWORK

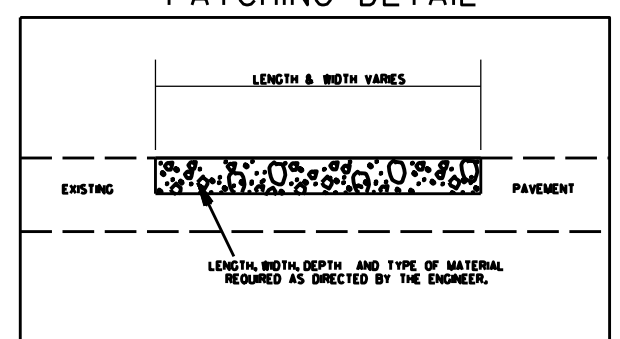
DESCRIPTION	MAP #15	MAP #19
UNCLASSIFIED EXCAVATION	2146 CY	1282 CY
BORROW EXCAVATION	100 CY	100 CY
REMOVAL OF EXISTING ASPHALT PAVEMENT	8360 SY	5186 SY
SHOULDER CONSTRUCTION	0.72 SMI	0.45 SMI

NOTE: QUANTITIES ARE APPROXIMATE, AND ARE ONLY TO BE USED FOR THE PURPOSE OF BIDDING THIS CONTRACT. PAYMENT FOR EARTH WORK QUANTITIES WILL BE COVERED UNDER COMPREHENSIVE GRADING AS A LUMP SUM PAY ITEM AS DETERMINED BY THE RESIDENT ENGINEER.



TYPICAL SECTION NO.24  
STATESVILLE AVE

### PATCHING DETAIL

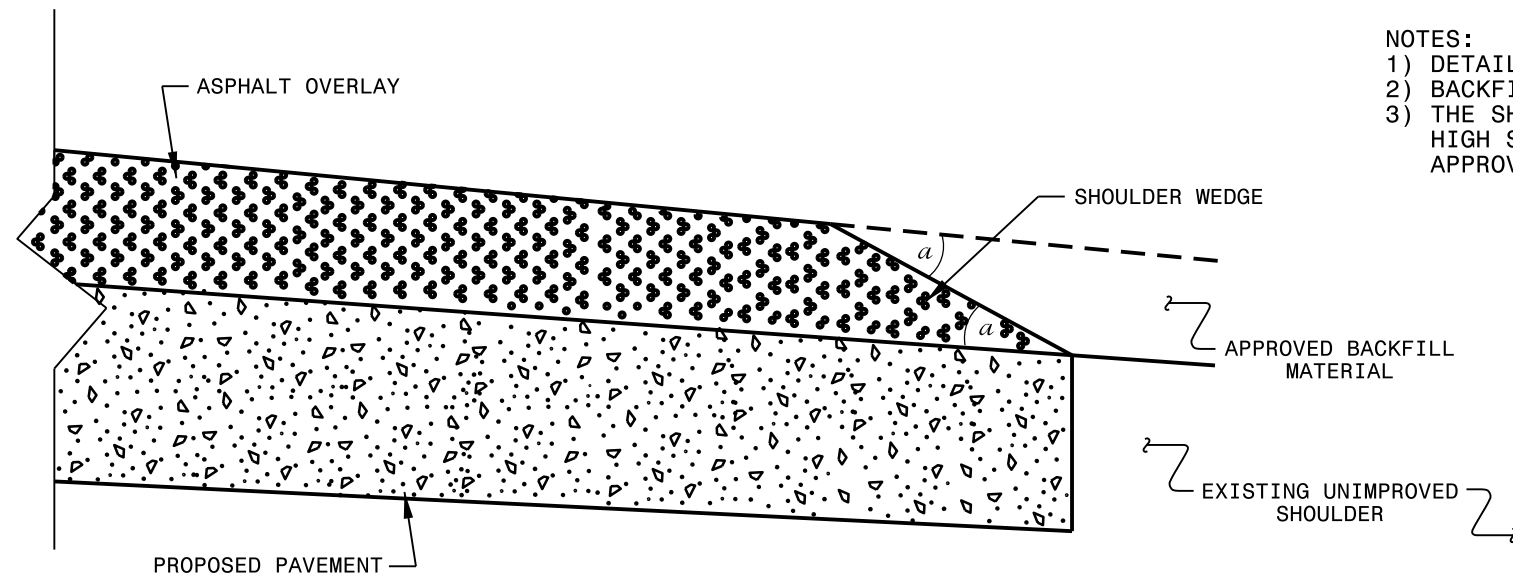


1-5905  
1-85 PAVEMENT PRESERVATION  
MECKLENBURG COUNTY

SCALE	-NA-		REVISIONS
DATE	3/19		
DWG. BY	JHE		
DESIGN BY	JHE		
APPROVED			

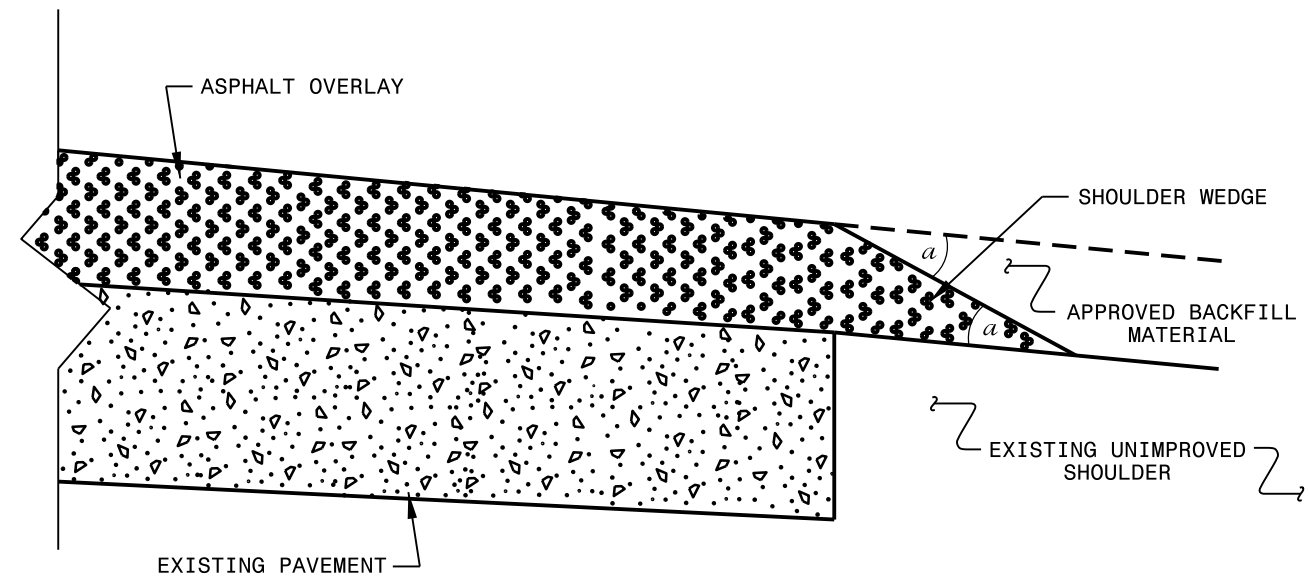
**NOTES:**

- 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.



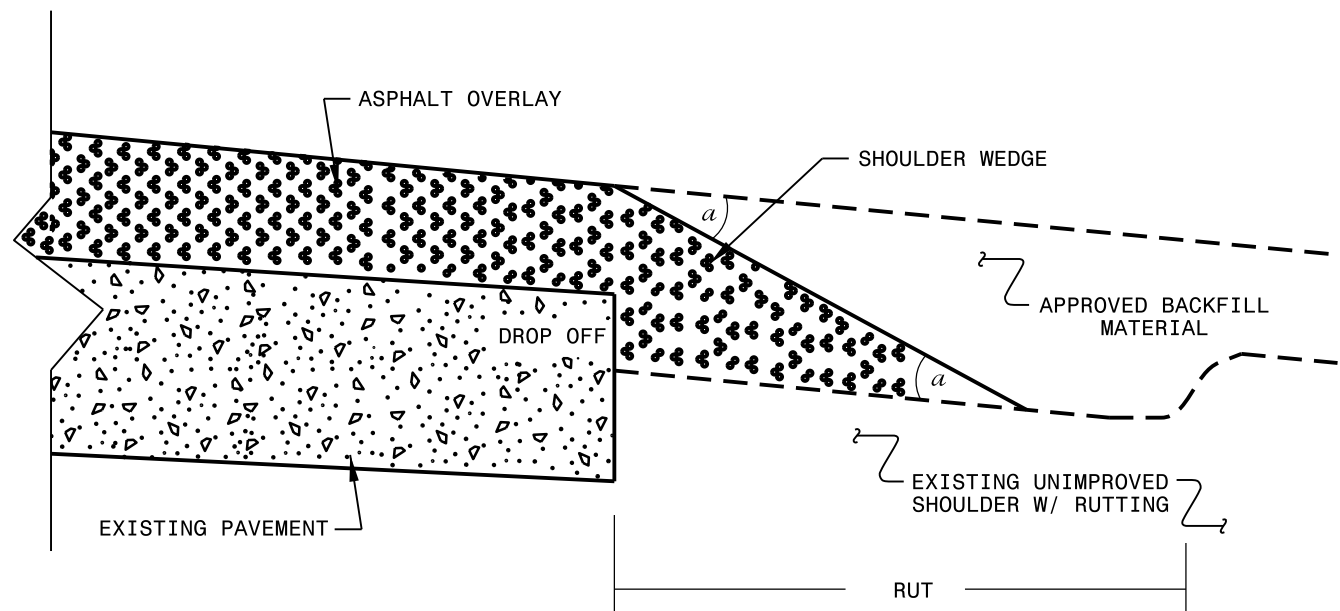
**SHOULDER WEDGE DETAIL**

(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°

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





# THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO. I-5905	SHEET NO. 23	TOTAL NO.
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PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGT H	WID TH	TYPE II																4895000							
										4795000	4805000000-N					4810000000-		4815000000-E		4820000	48250000	4835000	4840000	4845000000-N					4855000	4870000	4890000	4895000	
								MI	FT	COLD APPL PLAS. LINES, WHITE TYPE II (24")	COLD APPL PLAS. SYMBOL LEFT TURN ARROW	COLD APPL PLAS. SYMBOLS LEFT/STRAIGHT ARROW	COLD APPL PLAS. SYMBOL RIGHT TURN ARROW	COLD APPL PLAS. SYMB. TYPE II 24"YIELD	4" WHITE PAINT	4" YELLOW PAINT	6" WHITE PAINT	6" YELLOW PAINT	8" WHITE PAINT	12" WHITE PAINT	24" WHITE PAINT	PAINT MSG ONLY	PAINT RT ARROW	PAINT MERGE ARROW	PAINT LT ARROW	PAINT STR & RT ARROW	PAINT STR & LT ARROW	PAINT YIELD SYMBOL	6" LINE REMOVAL	24" LINE REMOVAL	THERM O LINES WHITE (24",90 MILS)	NON-CAST IRON SNOW PLOW. MARKERS	
										LF	EA	EA	EA	EA	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
45888.3.GV1	Mecklenburg	1	NB I-85 MAINLINE	FROM CONCRETE PAVEMENT JOINT SOUTH OF NC 16 BROOKSHIRE BLVD TO CONCRETE PAVEMENT JOINT SOUTH OF THE US 29 BY PASS CONNECTOR ROAD	1,2,3	4	MD	6.08	48							87,360	64,122			13,022		32	22	64									1,720
		2	SB I-85 MAINLINE	FROM THE CONCRETE JOINT SOUTH OF THE US 29 BY PASS CONNECTOR ROAD TO THE CONCRETE PAVEMENT JOINT SOUTH OF NC 16 BROOKSHIRE BLVD	1,2,3	4	MD	6.08	48							86,544	64,122			16,220		104	52	48									1,770
		3	NB OFF RAMP	FROM PHYSICAL GORE TO TOP RAMP AT BROOKSHIRE BLVD	4	1		0.17	24							1,309	1,010			205	30				6					15	30	20	
		4	NB ON RAMP	FROM TOP OF RAMP AT BROOKSHIRE BLVD TO PHYSICAL GORE	4	1		0.15	35							952	836			205				4									20
		5	SB OFF RAMP	FROM PHYSICAL GORE TO TOP OF RAMP AT BROOKSHIRE BLVD	4	1		0.12	36							898	679	236		193	30				6					20	30	18	
		6	SB ON RAMP	FROM TOP OF RAMP AT BROOKSHIRE BLVD TO PHYSICAL GORE	4	1		0.15	33							1,004	847			176				5								16	
		7	NB OFF RAMP	FROM PHYSICAL GORE TO TOP OF RAMP AT BEATTIES FORD ROAD	9	1		0.15	22							110	504	235			40				3	3					40	12	
		8	SB LOOP OFF RAMP	FROM PHYSICAL GORE TO TOP OF LOOP RAMP AT BEATTIES FORD RD	7,9	1		0.11	20							150	606	220			40		3							40	10		
		9	SB ON RAMP	FROM TOP OF RAMP AT BEATTIES FORD RD TO PHYSICAL GORE	8	1		0.21	20							918	1,124	214															
		10	ON RAMP TO NB I-77	APPROXIMATELY 3240 FEET TO PHYSICAL GORE	17	1		0.61	24							6,587	5,049				1,440			6								80	
		11	LOOP ON RAMP TO SB I-77	FROM PHYSICAL GORE AT SPLIT TO PHYSICAL GORE	15	1		0.14	40							889	714				82												50
		12	LOOP ON RAMP TO SB I-85	FROM PHYSICAL GORE TO PHYSICAL GORE	16	1		0.13	27							133	685																
		13	ON RAMP TO SB I-85	FROM PHYSICAL GORE TO PHYSICAL GORE	15	1		0.44	31							2,808	2,295							8									20
		14	ON RAMP TO SB I-77	FROM PAVEMENT JOINT TO APPROXIMATELY 730 FEET DOWN RAMP	15	1		0.14	31							913	730																
		15	NB OFF RAMP	FROM PHYSICAL GORE TO TOP RAMP AT STATESVILLE AVE	1,2,2,2	1		0.30	30	30	2	2	2	5	45	2,674	2,492	105		606	30		2		2		2	5	635			64	
		16	NB ON RAMP	FROM TOP OF RAMP AT STATESVILLE AVE TO PHYSICAL GORE	8,11	1		0.21	25							1,040	1,080	130															
		17	SB LOOP ON RAMP	FROM TOP OF LOOP RAMP AT STATESVILLE RD TO END OF BARRIER WALL	12,13	1		0.27	20							865	1,530	188															
		18	SB OFF RAMP	FROM PHYSICAL GORE TO TOP OF RAMP AT STATESVILLE RD	4,12	1		0.17	32							908	969	142							3	3							14
		19	SB ON RAMP	FROM TOP OF RAMP AT STATESVILLE RD TO PHYSICAL GORE	19,20	1		0.27	34							1,451	1,201							3					633				12
		20	NB LOOP OFF RAMP	FROM PHYSICAL GORE TO TOP OF LOOP RAMP AT N. GRAHAM ST	9	1		0.13	29							270	804	210			42				6	3				42	20		
		21	NB ON RAMP	FROM TOP OF RAMP AT N. GRAHAM ST TO PHYSICAL GORE	8,14	1		0.24	27							1,100	1,300	210															
		22	SB OFF RAMP	FROM PHYSICAL GORE TO TOP OF RAMP AT N. GRAHAM ST	4,14	1		0.19	37							1,165	968	304			55				6	3				55	16		
		23	SB LOOP ON RAMP	FROM TOP OF LOOP RAMP AT N. GRAHAM ST TO PHYSICAL GORE	9,12	1		0.12	21								660	247	165									10					
		24	US 29 BY PASS CONNECTOR	FLYOVER BRIDGE OVER I-85		2		0.07	34																								
		25	STATESVILLE AVE	FROM BRIDGE DECK AT I-85 TO TIPTON DRIVE	24	2	MD	0.19	26.8						660	925									5	3						85	
<b>GRAND TOTAL FOR I-5905</b>									16.82		30	2	2	2	5	705	925	200,048	154,327	2,441	32,314	352	136	79	138	37	15	5	15	1,268	35	322	3,862
										11					1,630		354,375							289									