

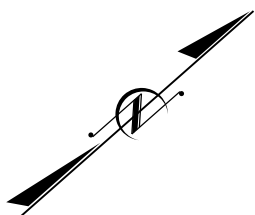
09/08/99

**CONTRACT NO.: DA00134**      **WBS ELEMENT: 45078.3.ST1**

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STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**PERQUIMANS COUNTY**



**LOCATION: US 17 - FROM 1000 FT WEST OF US17 BUS. TO PERQUIMANS RIVER BRIDGE**  
**TYPE OF WORK: MILLING, RESURFACING, & LONG LIFE PAVEMENT MARKINGS**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	45078.3.ST1	1	7
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	



**BEGIN PROJECT**

**END PROJECT**

*NOT TO SCALE*

**PROJECT LENGTH**  
  
WBS# 45078.3.ST1 = 1.90 MILES

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

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2012 STANDARD SPECIFICATIONS

**LETTING DATE:**  
JULY 18, 2012

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W.B. HOBBS, P.E.  
DIVISION PROJECT MANAGER

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C.E. SLACHTA  
DIVISION PROPOSALS ENGINEER

**DIVISION OF HIGHWAYS**  
**STATE OF NORTH CAROLINA**

ROADWAY DESIGN  
ENGINEER

8/17/99

SHEET NUMBER	INDEX OF SHEETS SHEET
1	TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1-B	CONVENTIONAL SYMBOLS
2	PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND WEDGING DETAILS
3	SUMMARY OF QUANTITIES
4 THRU	PLAN SHEET
	PROFILE SHEET
TCP-1 THRU TCP-	TRAFFIC CONTROL PLANS
PM-1 THRU PM-	PAVEMENT MARKING PLANS
L-1 THRU L-	LANDSCAPE PLANS
RF-1 THRU RF-	REFORESTATION PLANS
EC-1 THRU EC-	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-	SIGNING PLANS
U-1 THRU U-	UTILITIES PLANS
X-1 THRU X-	CROSS-SECTIONS
S-1 THRU S-	STRUCTURE PLANS

**GENERAL NOTES:** 2012 SPECIFICATIONS  
EFFECTIVE: 01-17-12  
REVISED: 11/01/11

**GRADE LINE:  
GRADING AND SURFACING:**  
THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

**SUPERELEVATION:**  
ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

**SIDE ROADS:**  
THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

**DRIVEWAYS:**  
DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02 USING 3' RADIUS OR RADIUS AS SHOWN ON THE PLANS. LOCATIONS OF DRIVES WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

**SUBSURFACE PLANS:**  
NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

**UTILITIES:**  
UTILITY OWNERS ON THIS PROJECT ARE  
Telephone - Century Link  
Power - Dominion Power  
Water/Sewer - Perquimans County Water Department  
ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

**RIGHT-OF-WAY MARKERS:**  
ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.

2012 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2012 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
225.05	Method of Obtaining Superelevation - Divided Highways
DIVISION 11 - WORK ZONE TRAFFIC CONTROL	
1101.02	Temporary Lane Closures
1101.04	Temporary Shoulder Closures
1101.05	Work Zone Vehicle Accesses
1101.11	Traffic Control Design Tables
1110.01	Stationary Work Zone Signs - Mounting Height & Lateral Clearance
1110.02	Portable Work Zone Signs - Mounting Height & Lateral Clearance
1115.01	Flashing Arrow Panels
1130.01	Drum
1135.01	Cones
1145.01	Barricades - Type III
1150.01	Flagging Devices
1160.01	Temporary Crash Cushion - Reflective End Treatment
1165.01	Truck Mounted Impact Attenuator - Delineation
1180.01	Skinny Drum
DIVISION 12 - PAVEMENT MARKINGS, MARKERS AND DELINEATION	
1205.01	Pavement Markings - Line Types and Offsets
1205.02	Pavement Markings - Divided and Undivided Roadways

04/16/11

Note: Not to Scale

\*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO. 45078.3.S1  
SHEET NO. 1-B

# CONVENTIONAL PLAN SHEET SYMBOLS

## BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EP
Property Corner	-----
Property Monument	□ EDM
Parcel/Sequence Number	①②③
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	----- MLB
Proposed Wetland Boundary	----- MLB
Existing Endangered Animal Boundary	----- EAB
Existing Endangered Plant Boundary	----- EPB
Known Soil Contamination: Area or Site	☠ ☠
Potential Soil Contamination: Area or Site	☠ ?

## BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○
Well	○
Small Mine	✕
Foundation	□
Area Outline	□
Cemetery	□
Building	□
School	□
Church	□
Dam	□

## HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	□
Jurisdictional Stream	----- JS
Buffer Zone 1	----- BZ 1
Buffer Zone 2	----- BZ 2
Flow Arrow	←
Disappearing Stream	-----
Spring	○
Wetland	-----
Proposed Lateral, Tail, Head Ditch	-----
False Sump	-----

## RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○
Switch	□
RR Abandoned	-----
RR Dismantled	-----

## RIGHT OF WAY:

Baseline Control Point	◆
Existing Right of Way Marker	△
Existing Right of Way Line	-----
Proposed Right of Way Line	-----
Proposed Right of Way Line with Iron Pin and Cap Marker	○
Proposed Right of Way Line with Concrete or Granite R/W Marker	○
Proposed Control of Access Line with Concrete C/A Marker	○
Existing Control of Access	○
Proposed Control of Access	○
Existing Easement Line	----- E
Proposed Temporary Construction Easement	----- E
Proposed Temporary Drainage Easement	----- TDE
Proposed Permanent Drainage Easement	----- PDE
Proposed Permanent Drainage / Utility Easement	----- DUE
Proposed Permanent Utility Easement	----- PUE
Proposed Temporary Utility Easement	----- TUE
Proposed Aerial Utility Easement	----- AUE
Proposed Permanent Easement with Iron Pin and Cap Marker	◆

## ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	----- C
Proposed Slope Stakes Fill	----- F
Proposed Curb Ramp	○ CR
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	⊕
Pavement Removal	-----
Single Tree	☘
Single Shrub	☘
Hedge	-----
Woods Line	-----

## VEGETATION:

Orchard	☘ ☘ ☘ ☘
Vineyard	□ Vineyard

## EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	----- CONC
Bridge Wing Wall, Head Wall and End Wall	----- CONC WW
MINOR:	
Head and End Wall	----- CONC HW
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	□ CB
Paved Ditch Gutter	-----
Storm Sewer Manhole	○
Storm Sewer	-----

## UTILITIES:

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	⊕
Power Line Tower	⊗
Power Transformer	⊗
H-Frame Pole	●
Recorded U/G Power Line	----- P
Designated U/G Power Line (S.U.E.*)	----- P

## TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊕
Telephone Booth	□
Telephone Pedestal	⊕
Telephone Cell Tower	⊗
U/G Telephone Cable Hand Hole	⊕
Recorded U/G Telephone Cable	----- T
Designated U/G Telephone Cable (S.U.E.*)	----- T
Recorded U/G Telephone Conduit	----- TC
Designated U/G Telephone Conduit (S.U.E.*)	----- TC
Recorded U/G Fiber Optics Cable	----- T FO
Designated U/G Fiber Optics Cable (S.U.E.*)	----- T FO

## WATER:

Water Manhole	⊕
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
Recorded U/G Water Line	-----
Designated U/G Water Line (S.U.E.*)	-----
Above Ground Water Line	----- A/G Water

## TV:

TV Satellite Dish	☎
TV Pedestal	⊕
TV Tower	⊗
U/G TV Cable Hand Hole	⊕
Recorded U/G TV Cable	----- TV
Designated U/G TV Cable (S.U.E.*)	----- TV
Recorded U/G Fiber Optic Cable	----- TV FO
Designated U/G Fiber Optic Cable (S.U.E.*)	----- TV FO

## GAS:

Gas Valve	◇
Gas Meter	⊕
Recorded U/G Gas Line	----- G
Designated U/G Gas Line (S.U.E.*)	----- G
Above Ground Gas Line	----- A/G Gas

## SANITARY SEWER:

Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	----- SS
Above Ground Sanitary Sewer	----- A/G Sanitary Sewer
Recorded SS Forced Main Line	----- FSS
Designated SS Forced Main Line (S.U.E.*)	----- FSS

## MISCELLANEOUS:

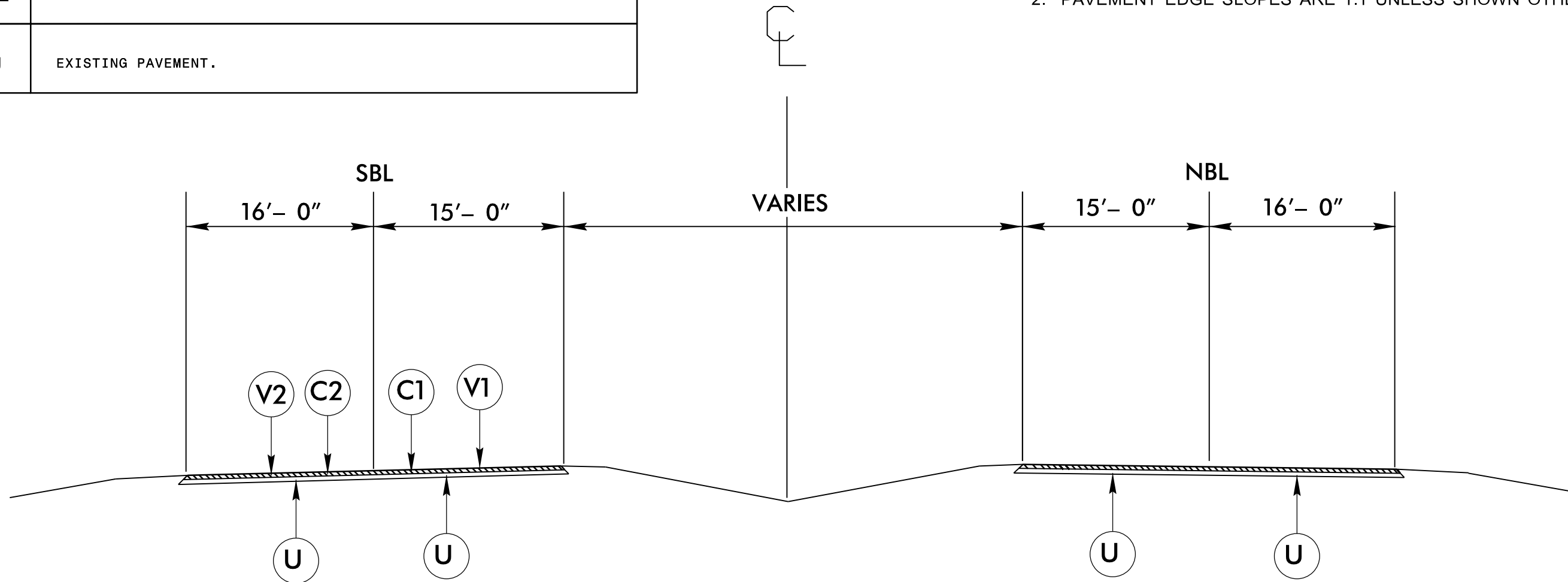
Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊕
Utility Unknown U/G Line	----- ?UTL
U/G Tank; Water, Gas, Oil	□
Underground Storage Tank, Approx. Loc.	⊕
A/G Tank; Water, Gas, Oil	□
Geoenvironmental Boring	⊕
U/G Test Hole (S.U.E.*)	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE TYPE S 9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ.YD.
C2	PROP. APPROX. 3.0" ASPHALT CONCRETE SURFACE COURSE TYPE S 9.5C, AT AN AVERAGE RATE OF 336 LBS. PER SQ.YD. TO BE PLACED IN TWO EQUAL LAYERS OF 1.5", EACH AT A RATE OF 168 LBS PER SQ. YD.
V1	MILLING 1.5"
V2	MILLING 3"
U	EXISTING PAVEMENT.

PROJECT REFERENCE NO.	SHEET NO.
45078.3.ST1	2 OF 7

NOTES:

- PAVED SHOULDERS, PAVEMENT INTERSECTIONS, AND TURN LANES ARE INCLUDED IN THE SUMMARY OF QUANTITIES
- PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE



***TYPICAL SECTION #1***

STATIONS 0 + 00 - 20 + 50

STATIONS 30 + 06 - 62 + 21

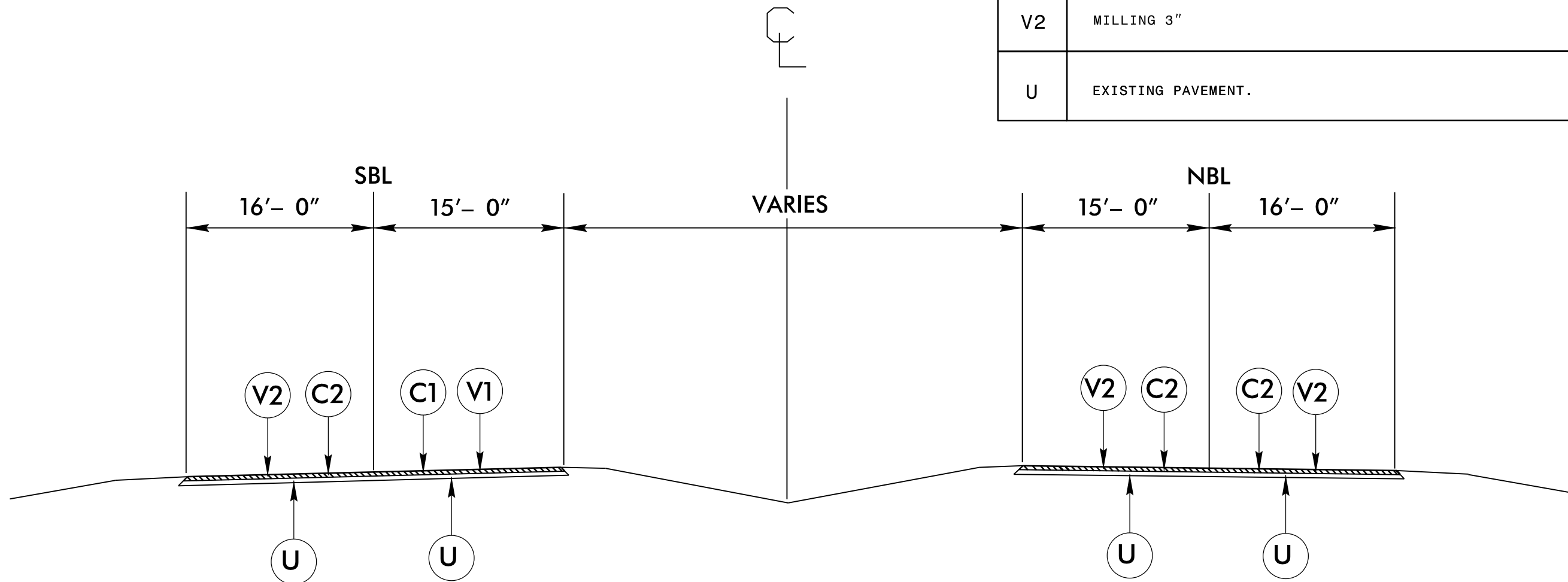
STATIONS 70 + 89 - 83 + 41

NOTES:

1. PAVED SHOULDERS, PAVEMENT INTERSECTIONS, AND TURN LANES ARE INCLUDED IN THE SUMMARY OF QUANTITIES
2. PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE

PROJECT REFERENCE NO.	SHEET NO.
45078.3.ST1	2-A OF 7

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE TYPE S 9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ.YD.
C2	PROP. APPROX. 3.0" ASPHALT CONCRETE SURFACE COURSE TYPE S 9.5C, AT AN AVERAGE RATE OF 336 LBS. PER SQ.YD. TO BE PLACED IN TWO EQUAL LAYERS OF 1.5", EACH AT A RATE OF 168 LBS PER SQ. YD.
V1	MILLING 1.5"
V2	MILLING 3"
U	EXISTING PAVEMENT.



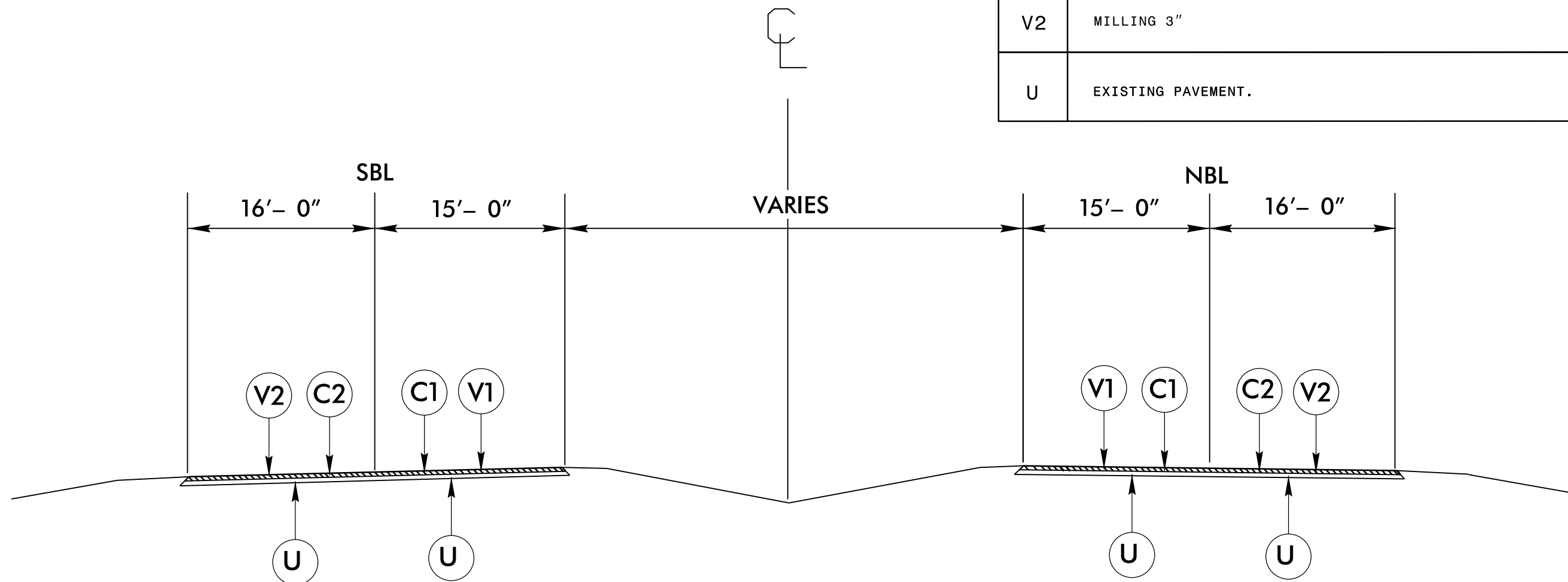
***TYPICAL SECTION #2***  
**STATIONS 20+50 - 30+06**

NOTES:

1. PAVED SHOULDERS, PAVEMENT INTERSECTIONS, AND TURN LANES ARE INCLUDED IN THE SUMMARY OF QUANTITIES
2. PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE

PROJECT REFERENCE NO.	SHEET NO.
45078.3.ST1	2-B OF 7

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE TYPE S 9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ.YD.
C2	PROP. APPROX. 3.0" ASPHALT CONCRETE SURFACE COURSE TYPE S 9.5C, AT AN AVERAGE RATE OF 336 LBS. PER SQ.YD. TO BE PLACED IN TWO EQUAL LAYERS OF 1.5", EACH AT A RATE OF 168 LBS PER SQ. YD.
V1	MILLING 1.5"
V2	MILLING 3"
U	EXISTING PAVEMENT.



***TYPICAL SECTION #3***

STATIONS 62 + 21 - 70 + 89

PROJECT NO.	SHEET NO.	TOTAL NO.
DA00134	3	7

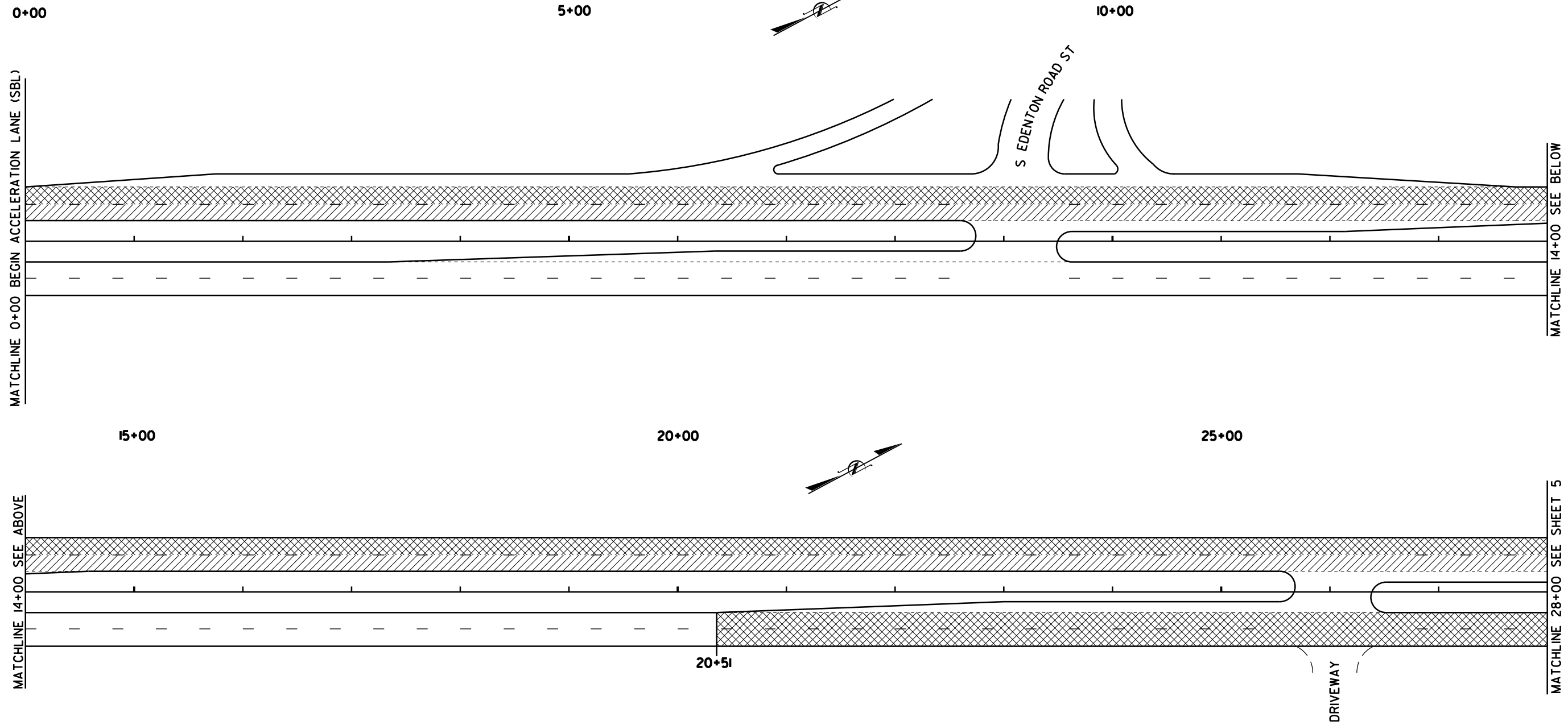
### SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYPICAL NO	FINAL SURFACE TESTING REQUIRED	LENGTH MI	WIDTH FT	MOBILIZATION LS	1½" MILLING SY	3" MILLING SY	SURFACE COURSE, S9.5C TON	ASPHALT BINDER FOR PLANT MIX TON	INDUCTIVE LOOP SAWCUT LF
DA00134	Perquimans	1	US 17	FROM 1000FT WEST OF US17 BUS. TO PERQUIMANS RIVER BRIDGE	1	NO	1.90	31	1	15,500	19,500	4,650	274	500
<b>GRAND TOTAL</b>							<b>1.90</b>		<b>1</b>	<b>15,500</b>	<b>19,500</b>	<b>4,650</b>	<b>274</b>	<b>500</b>

### THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYPICAL NO	FINAL SURFACE TESTING REQUIRED	LENGTH	WIDTH	TEMPORARY TRAFFIC CONTROL LS	4" X 90 M WHITE THERMO LF	4" X 90 M YELLOW THERMO LF	4" X 120 M WHITE THERMO LF	24" X 120 M WHITE THERMO LF	THERMO STR ARROW 90 M EA	THERMO LT ARROW 90 M EA	4" WHITE PAINT LF	24" WHITE PAINT LF	PAINT STR ARROW EA	PAINT LT ARROW EA	CRYSTAL & RED MARKERS EA
DA00134	Perquimans	1	US 17	FROM 1000FT WEST OF US17 BUS. TO PERQUIMANS RIVER BRIDGE	1	NO	1.90	31	1	9,900	9,100	3,000	75	28	6	22,000	75	28	6	500
<b>GRAND TOTAL</b>							<b>1.90</b>		<b>1</b>	<b>9,900</b>	<b>9,100</b>	<b>3,000</b>	<b>75</b>	<b>28</b>	<b>6</b>	<b>22,000</b>	<b>75</b>	<b>28</b>	<b>6</b>	<b>500</b>
										<b>19,000</b>				<b>34</b>						

PROJECT REFERENCE NO. <b>45078.3.ST1</b>	SHEET NO. <b>4</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER





MATCHLINE 0+00 BEGIN ACCELERATION LANE (SBL)

MATCHLINE 14+00 SEE BELOW

MATCHLINE 14+00 SEE ABOVE

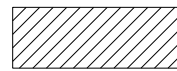
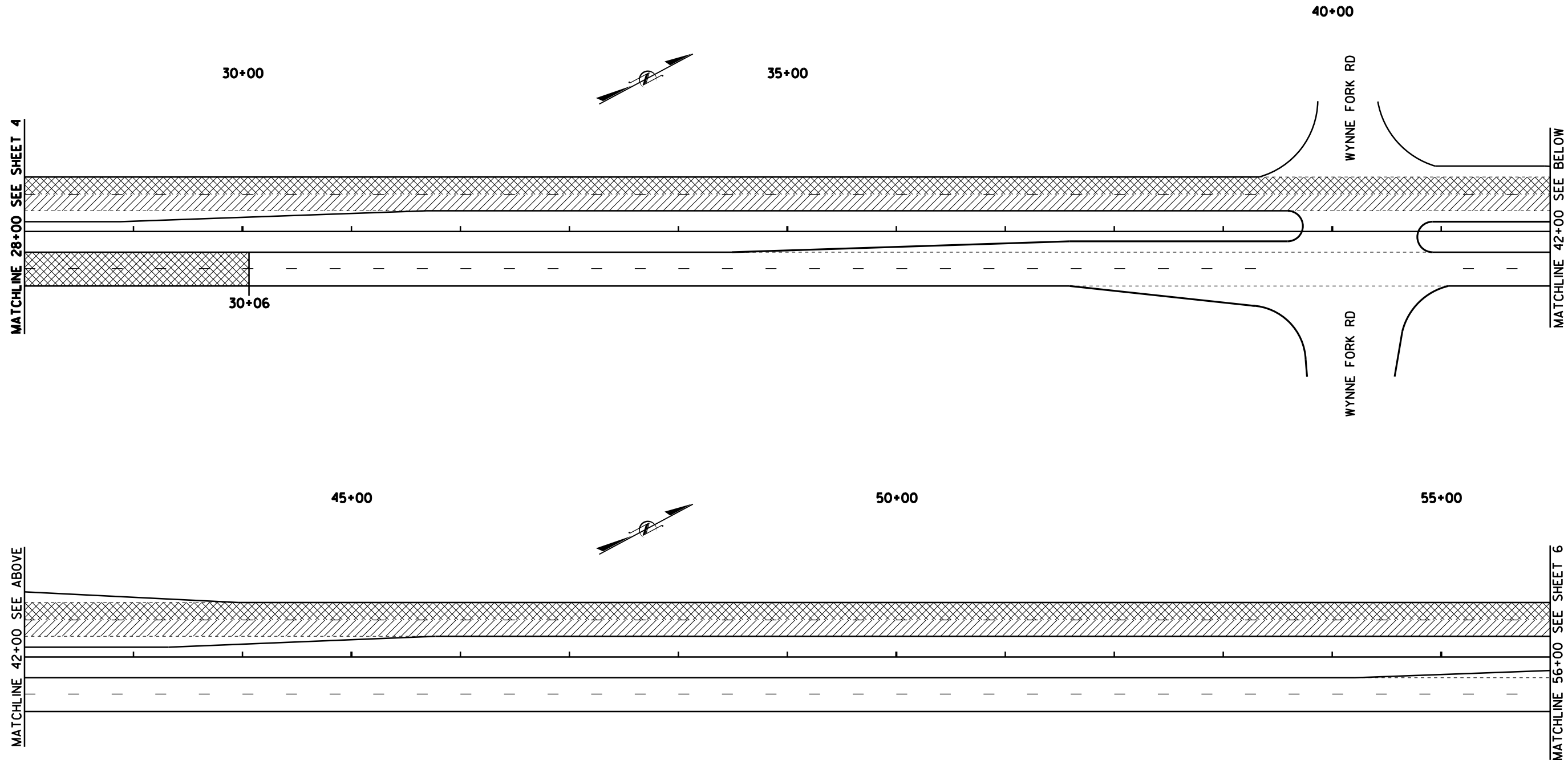
MATCHLINE 28+00 SEE SHEET 5

-  1.5" MILLING, 1.5" OF ACSC S9.5C
-  3" MILLING, 3" OF ACSC S9.5C (2 LAYERS, EACH @ 1.5")

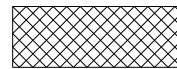
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PROJECT REFERENCE NO. <b>45078.3.ST1</b>	SHEET NO. <b>5</b>
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



1.5" MILLING, 1.5" OF ACSC S9.5C



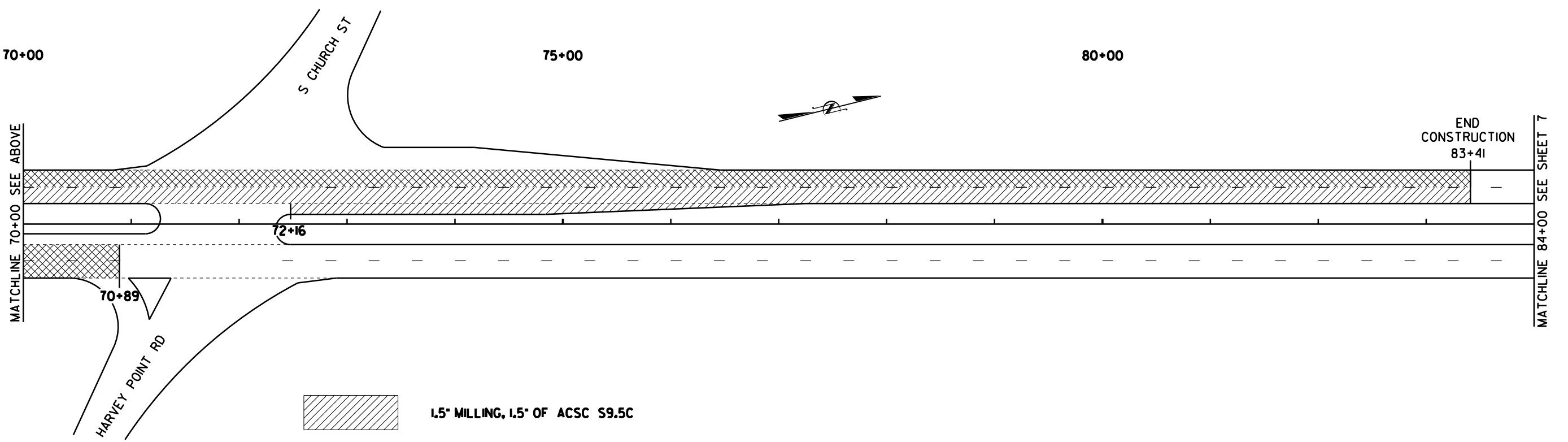
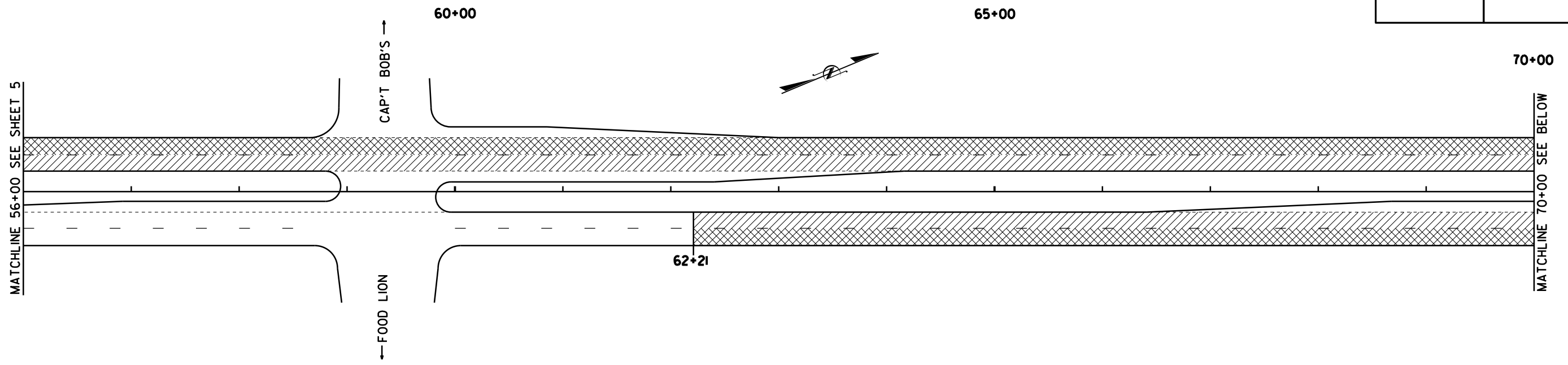
3" MILLING, 3" OF ACSC S9.5C (2 LAYERS, EACH @ 1.5")

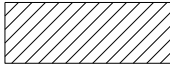

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PROJECT REFERENCE NO. <b>45078.3.ST1</b>		SHEET NO. <b>6</b>	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



-  1.5" MILLING, 1.5" OF ACSC S9.5C
-  3" MILLING, 3" OF ACSC S9.5C (2 LAYERS, EACH @ 1.5")

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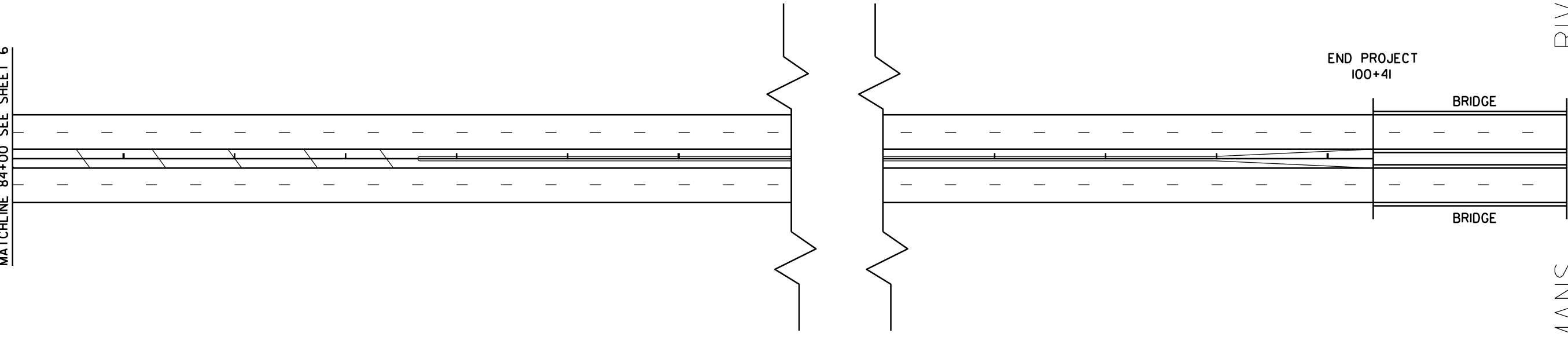
PROJECT REFERENCE NO. <b>45078.3.ST1</b>	SHEET NO. <b>7</b>
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

85+00

90+00

100+00

MATCHLINE 84+00 SEE SHEET 6



END PROJECT  
100+41

BRIDGE

BRIDGE

RIVER

PERQUIMANS

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