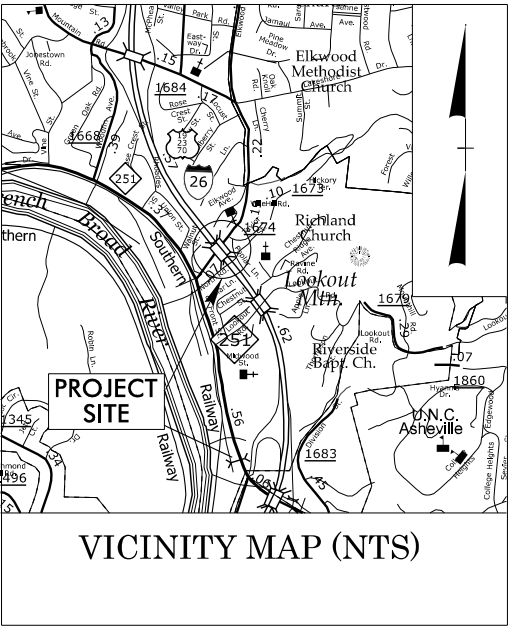


CONTRACT: DM00527 BRIDGE PROJECT: 82000.03



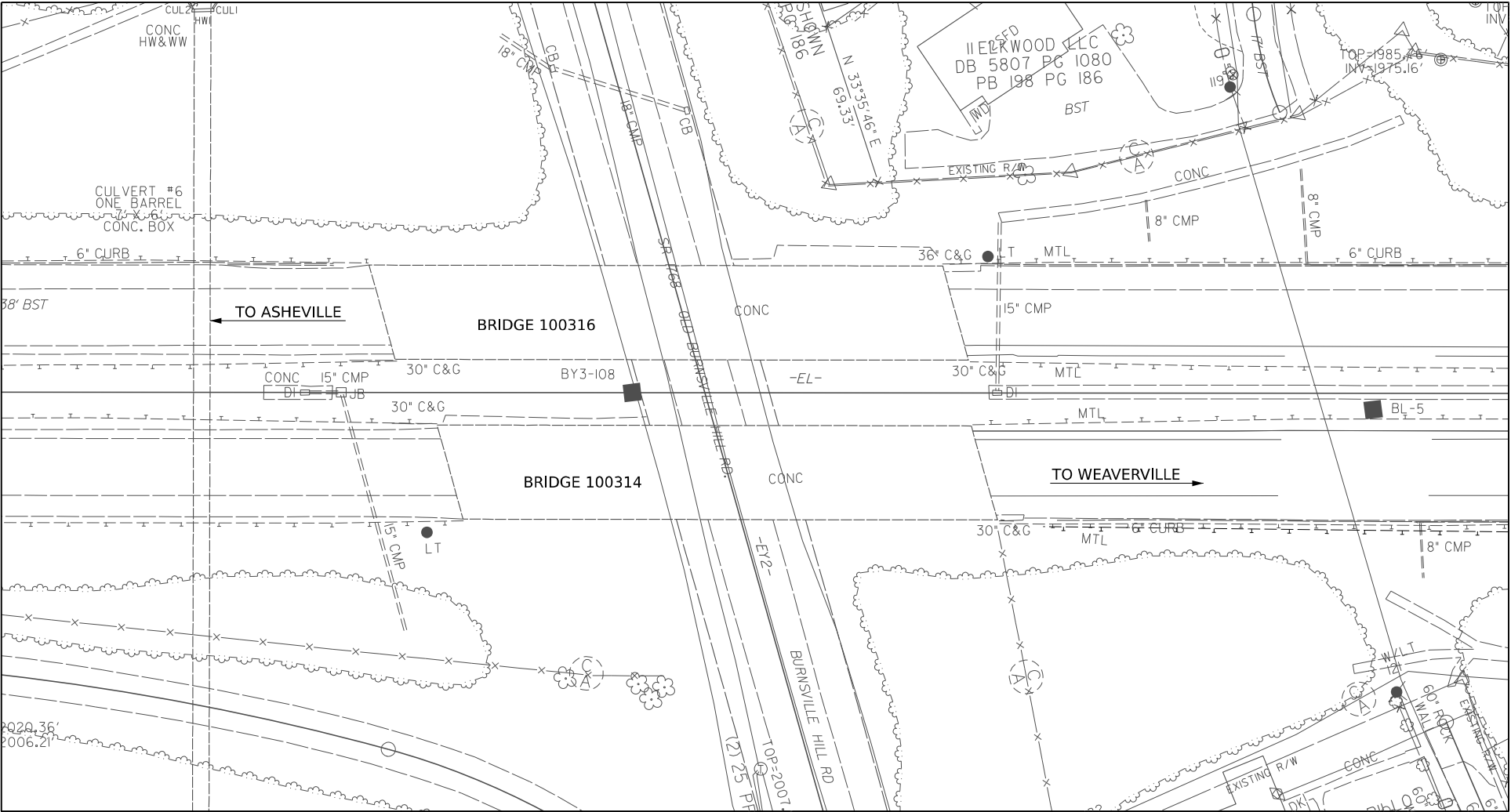
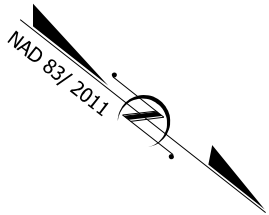
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

BUNCOMBE COUNTY

LOCATION: *REPAIR BRIDGE #100314 ON I-26W OVER SR 1674*
REPAIR BRIDGE #100316 ON I-26E OVER SR 1674

TYPE OF WORK: *ROADWAY REPAIRS, DRAINAGE AND STRUCTURE REPAIRS*

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	82000.03		
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
82000.03	N/A	BRIDGE 100314	
82000.03	N/A	BRIDGE 100316	



THIS PROJECT IS WITHIN A MUNICIPAL BOUNDARY OF THE CITY OF ASHEVILLE

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

DESIGN DATA

ADT 2022 = 31000
ADT 2040 = 62000

V = 60 MPH
* TTST =
FUNC CLASS = URBAN
PRINCIPAL ARTERIAL
- OTHER FREEWAYS

PROJECT LENGTH

TOTAL LENGTH FOR BRIDGE PROJECT 82000.03 = 0.043 MILES

NCDOT Contact: JOEL M. DAVIS
Prepared in the Office of:



2024 STANDARD SPECIFICATIONS

W. KEVIN FISCHER, PE
PROJECT ENGINEER

LETTING DATE:
SEPTEMBER 2, 2026

STRUCTURES ENGINEER

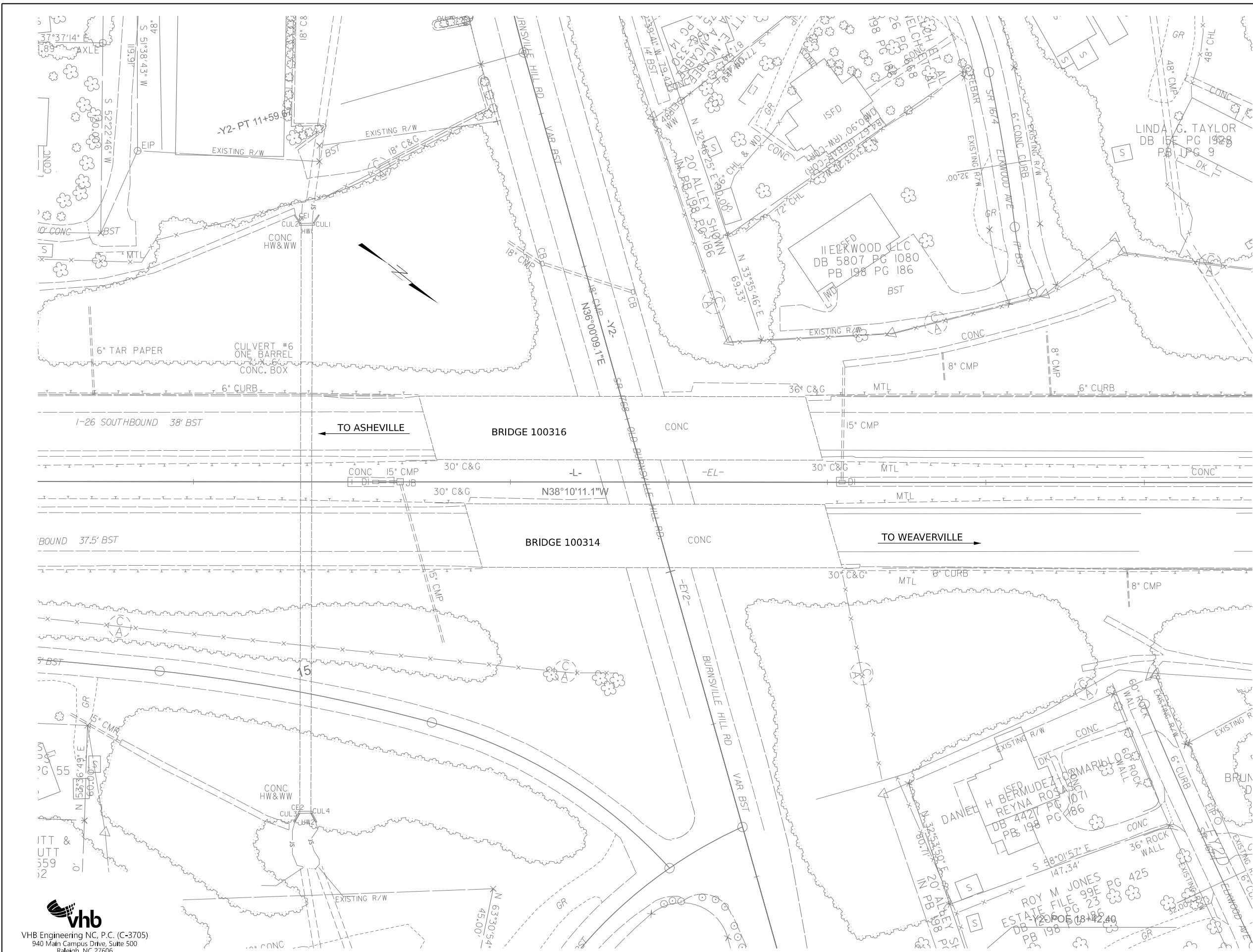


Signed by:
Chirag Patel
053485053485

8/6/2026

CHIRAG S. PATEL, PE
SIGNATURE:





vhb
VHB Engineering NC, P.C. (C-3705)
940 Main Campus Drive, Suite 500
Raleigh, NC 27606

DRAWN BY : D.B. HINNANT DATE : 8/2026
CHECKED BY : C.S. PATEL DATE : 8/2026
DESIGN ENGINEER OF RECORD: C.S. PATEL DATE : 8/2026

EXISTING SITE CONDITIONS

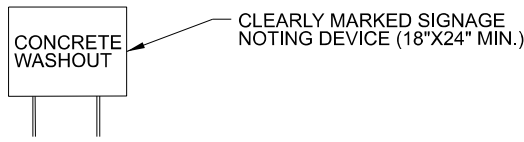
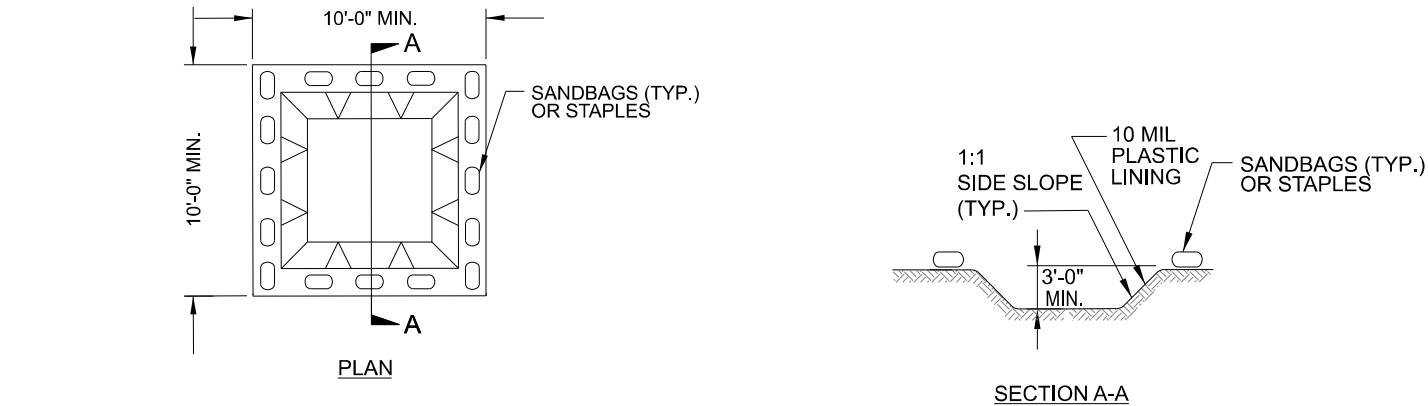
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FINAL UNLESS ALL
SIGNATURES COMPLETED

PROJECT NO. 82000.03
BUNCOMBE COUNTY
STATION: _____

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			EX-1
2			4			TOTAL SHEETS
						21

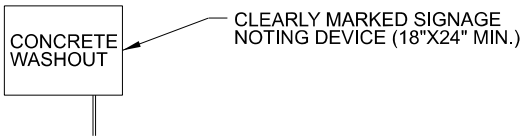
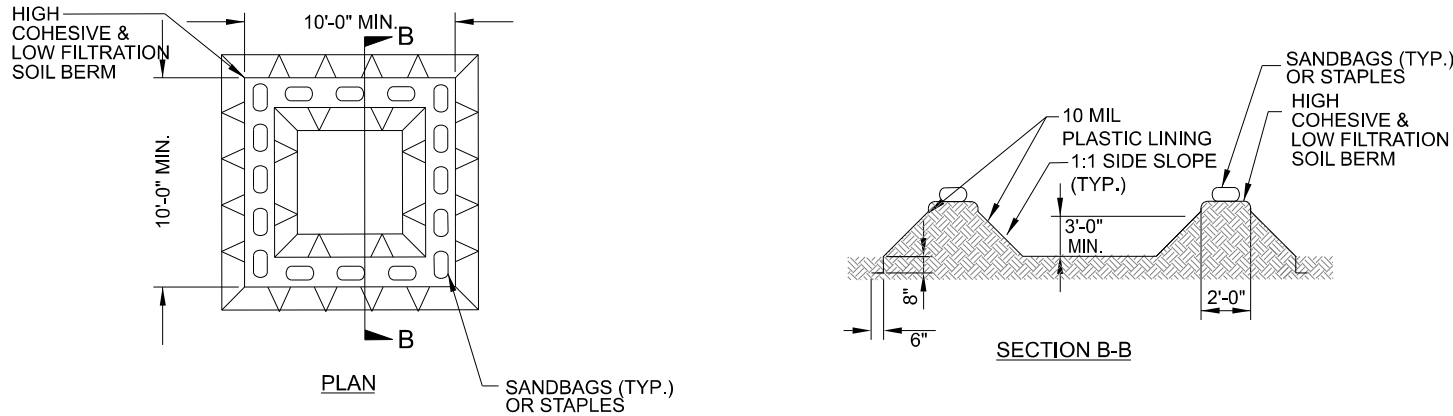
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
**REPAIRS FOR BRIDGES
ON US I-26 OVER SR 1674
(OLD BURNSVILLE
HILL RD)
100314 AND 100316**

ONSITE CONCRETE WASHOUT
STRUCTURE WITH LINER



BELOW GRADE WASHOUT STRUCTURE
NOT TO SCALE

- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 - 3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.



ABOVE GRADE WASHOUT STRUCTURE
NOT TO SCALE

- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 - 3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

PROJECT NO. **82000.03**
BUNCOMBE COUNTY
STATION: _____

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
**REPAIRS FOR BRIDGES
ON US I-26 OVER SR 1674
(OLD BURNSVILLE
HILL RD)
100314 AND 100316**

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			EC-1
2			4			TOTAL SHEETS
						21



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940 Main Campus Drive, Suite 500
Raleigh, NC 27606

DRAWN BY : **J.R. HOPSON** DATE : **8/2026**
CHECKED BY : **F.F. FLEMING** DATE : **8/2026**
DESIGN ENGINEER OF RECORD: _____ DATE : _____

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 TO 4:1	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH WITH SLOPES STEEPER THAN 4:1. 7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES

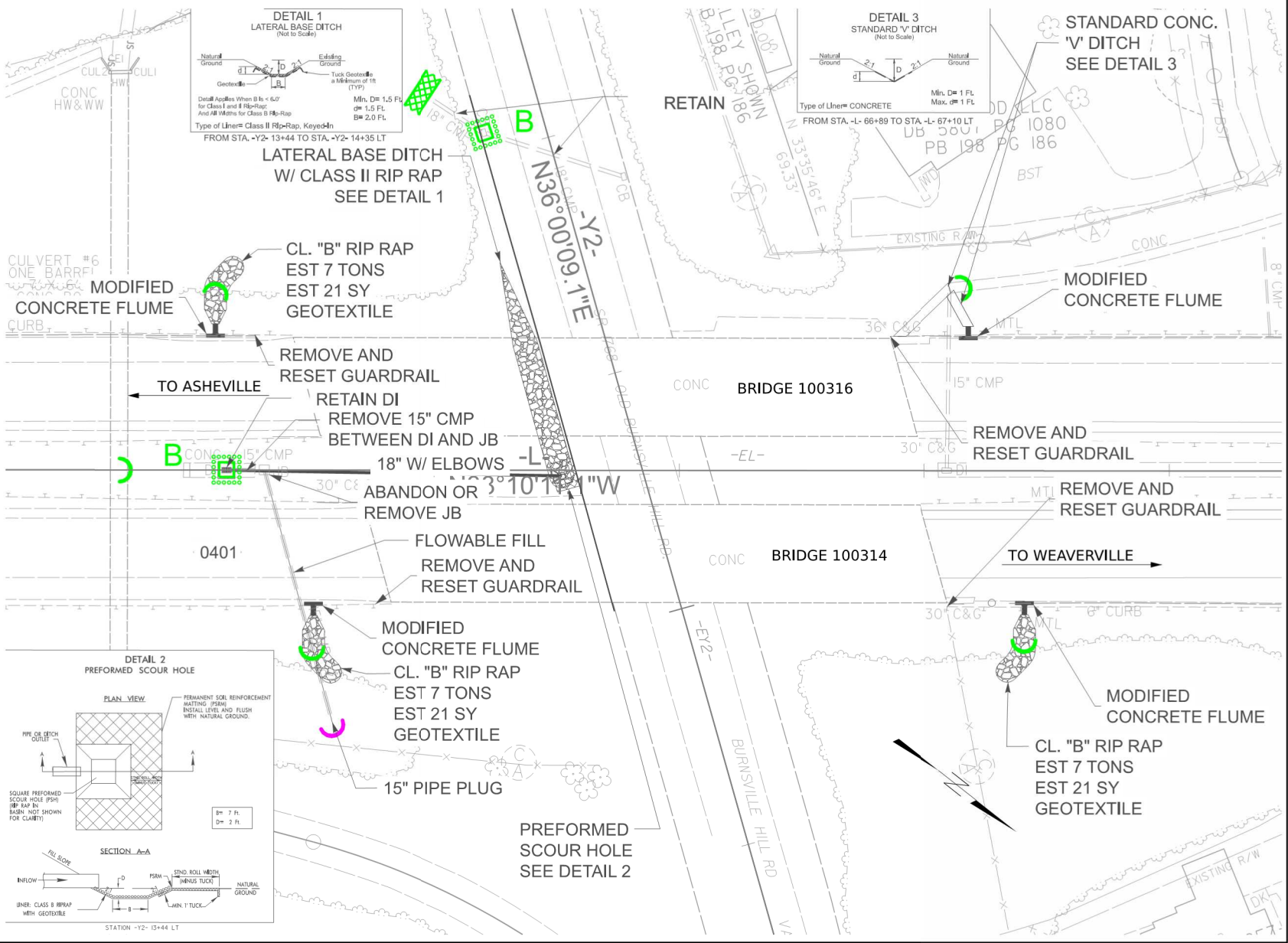
PROJECT NO. 82000.03
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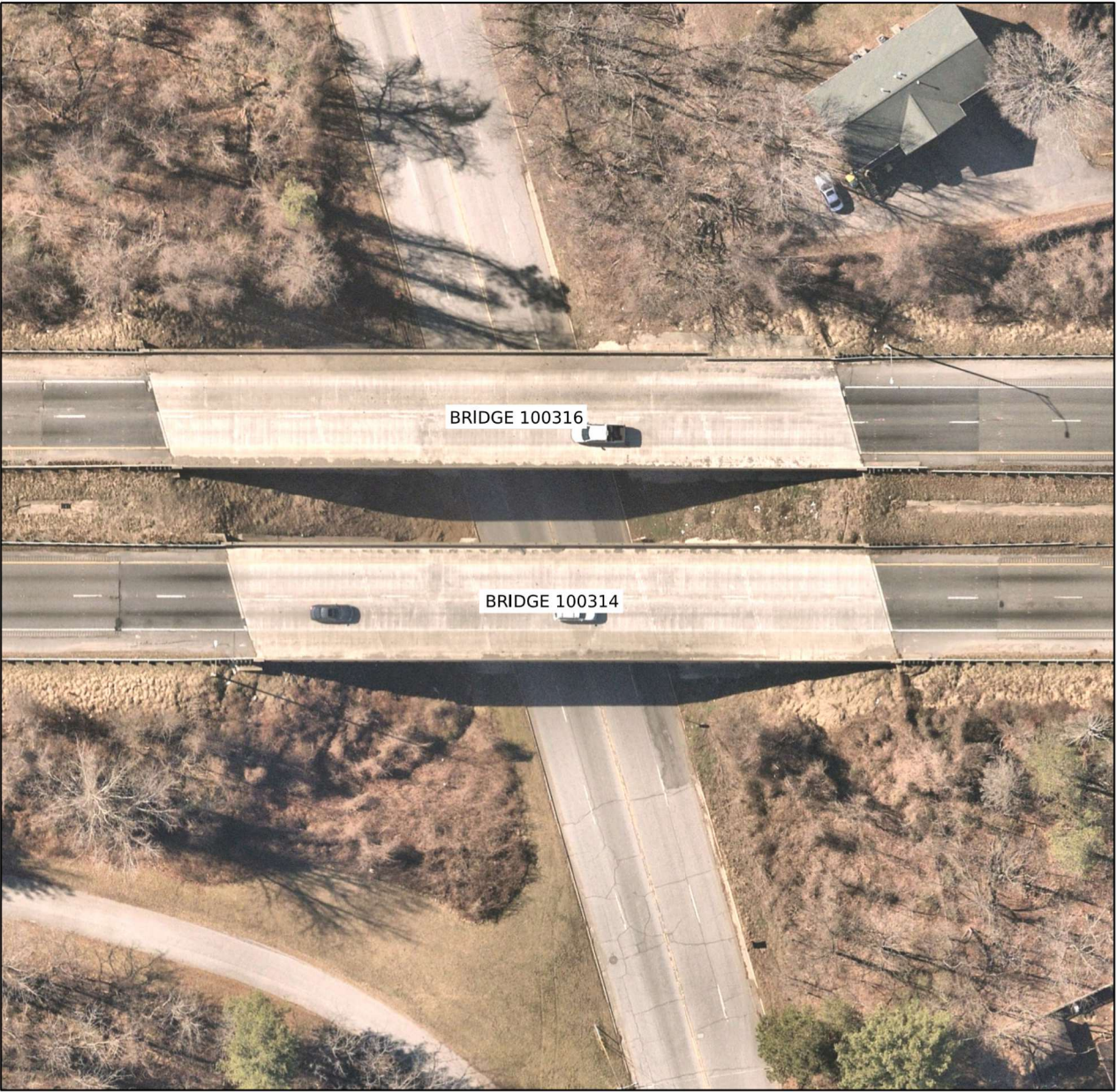
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ON US I-26 OVER SR 1674
(OLD BURNSVILLE
HILL RD)
100314 AND 100316**

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	EC-2
1			3			TOTAL SHEETS
2			4			21



EROSION CONTROL SKETCH



EC NOTES:
CONTRACTOR TO FIELD VERIFY PLACEMENT OF PROPOSED EROSION CONTROL DEVICES AND QUANTITIES REQUIRED FOR THIS PROJECT.

PAY ITEM NO.	SEC. NO.	DESCRIPTION	QTY	UNIT
3656000000-E	876	GEOTEXTILE FOR DRAINAGE	300	SY
6000000000-E	1605	TEMPORARY SILT FENCE	235	LF
6006000000-E	1610	EROSION CONTROL STONE, CLASS A	50	TON
6009000000-E	1610	EROSION CONTROL STONE, CLASS B	10	TON
6012000000-E	1610	SEDIMENT CONTROL STONE	30	TON
6015000000-E	1615	TEMPORARY MULCHING	1	ACR
6018000000-E	1620	SEED FOR TEMPORARY SEEDING	100	LB
6021000000-E	1620	FERTILIZER FOR TEMPORARY SEEDING	0.5	TON
6024000000-E	1622	TEMPORARY SLOPE DRAINS	200	LF
6029000000-E	SP	SAFETY FENCE	100	LF
6030000000-E	1630	SILT EXCA VATION	30	CY
6036000000-E	1631	MATTING FOR EROSION CONTROL	600	SY
6084000000-E	1660	SEEDING AND MULCHING	1	ACR
6090000000-E	1661	SEED FOR REPAIR SEEDING	50	LB
6093000000-E	1661	FERTILIZER FOR REPAIR SEEDING	0.25	TON
6096000000-E	1662	SEED FOR SUPPLEMENTAL SEEDING	50	LB
6108000000-E	1665	FERTILIZER TOPDRESSING	0.75	TON
6117000000-N	1675	RESPONSE FOR EROSION CONTROL	6	EA
6117500000-N	SP	CONCRETE WASHOUT STRUCTURE	2	EA
6132000000-N	876	GENERIC EROSION CONTROL ITEM- PREFABRICATED CONCRETE WASHOUT	2	EA

THIS PROJECT CONTAINS
EROSION CONTROL PLANS
FOR CLEARING AND
GRUBBING PHASE OF
CONSTRUCTION.

PROJECT NO. **82000.03**
BUNCOMBE COUNTY
STATION: _____

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
**REPAIRS FOR BRIDGES
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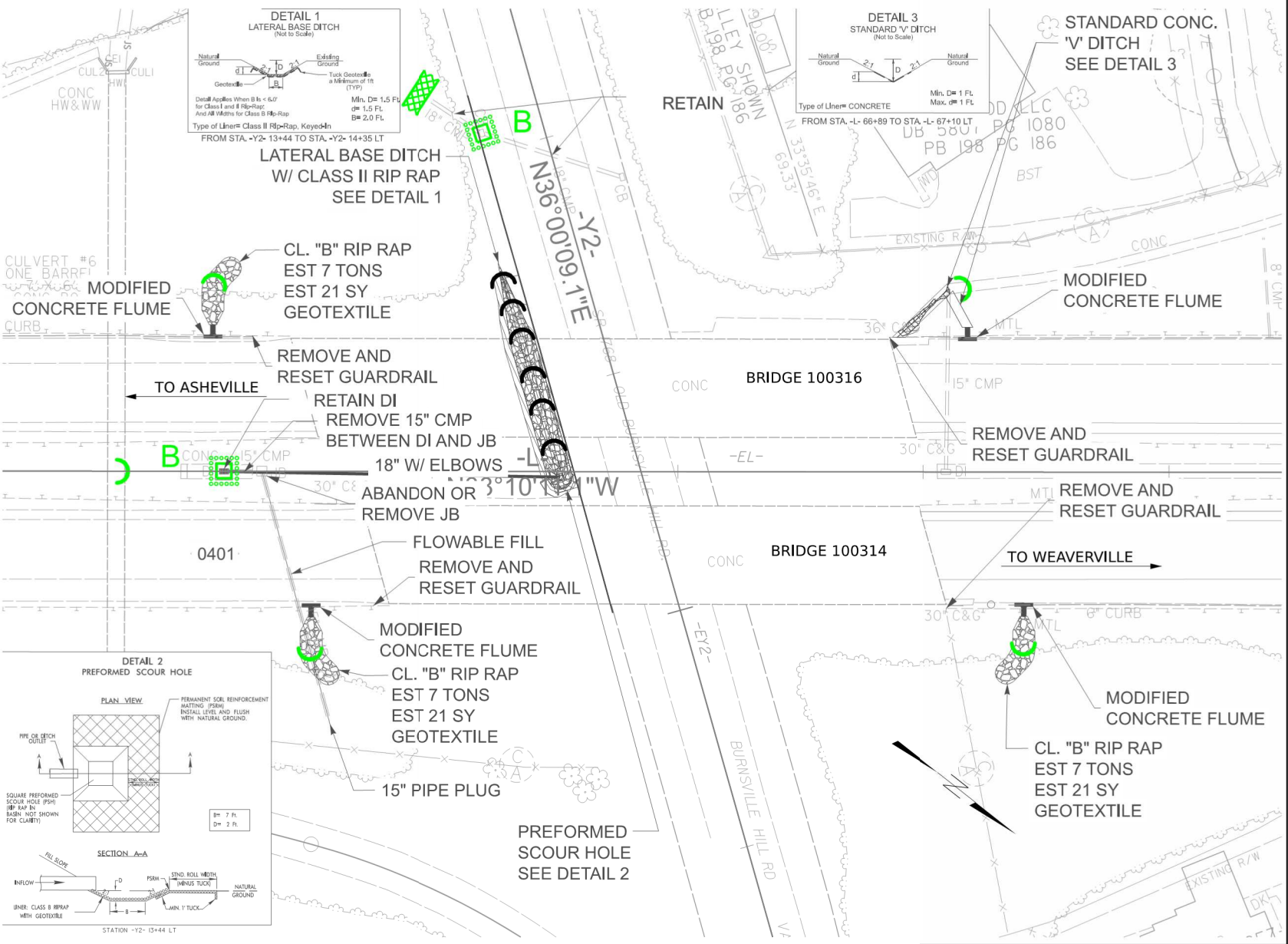
REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			EC1-1
2			4			TOTAL SHEETS 21



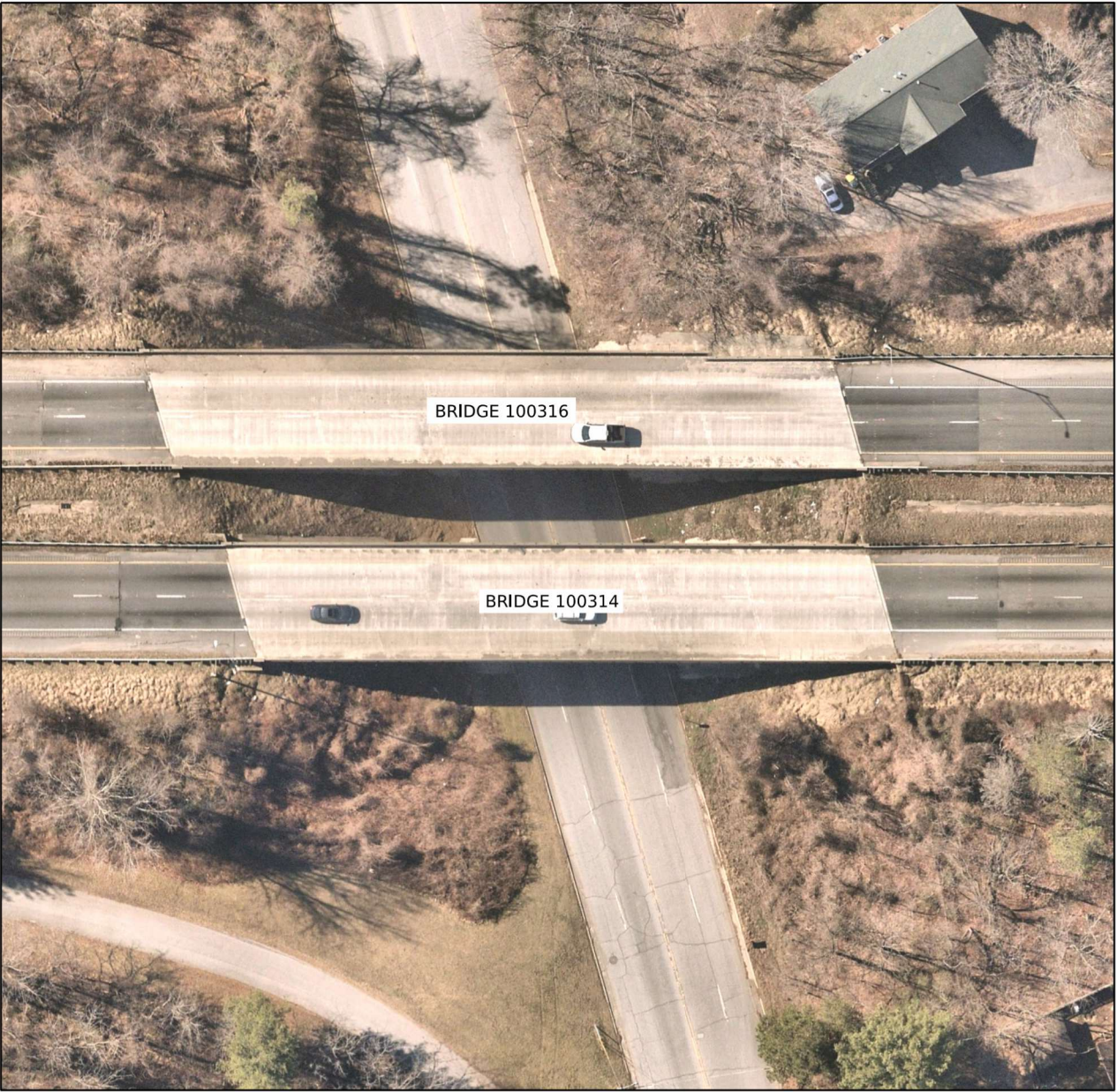
VHB Engineering NC, P.C. (C-3705)
940 Main Campus Drive, Suite 500
Raleigh, NC 27606

DRAWN BY: J.R. HOPSON DATE: 8/2026
CHECKED BY: F.F. FLEMING DATE: 8/2026
DESIGN ENGINEER OF RECORD: _____ DATE: _____

8/10/2026
VHB/jeffwilson



EROSION CONTROL SKETCH



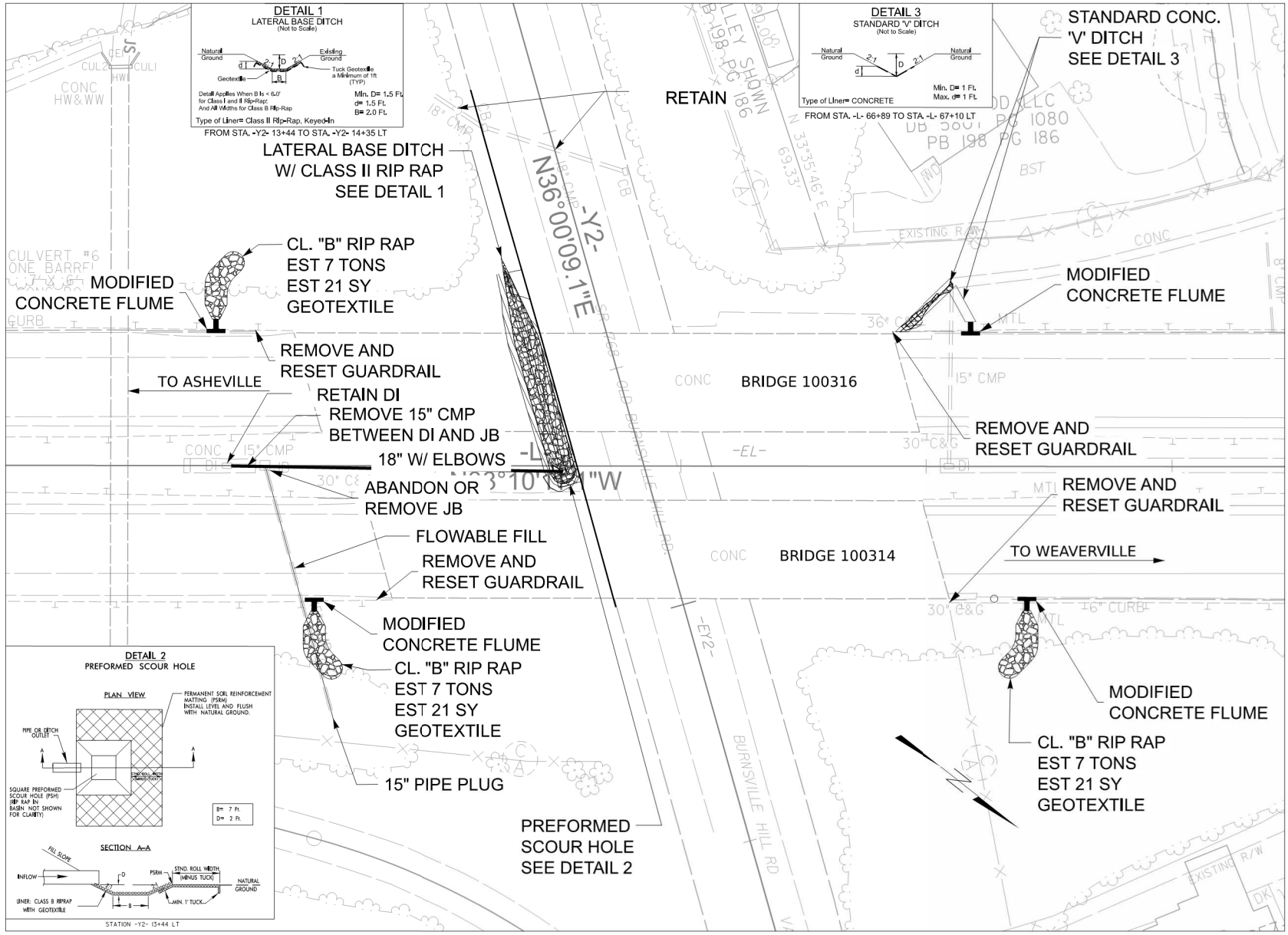
PROJECT NO. **82000.03**
BUNCOMBE COUNTY
STATION: _____

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
REPAIRS FOR BRIDGES ON US I-26 OVER SR 1674 (OLD BURNVILLE HILL RD) 100314 AND 100316					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
SHEET NO.					EC1-2
					TOTAL SHEETS
					21



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CHECKED BY : **F.F. FLEMING** DATE : **8/2026**
DESIGN ENGINEER OF RECORD: _____ DATE : _____



DRAINAGE SKETCH

- SCOPE OF WORK
- REMOVE EXISTING 15" CMP BETWEEN DI AND JB.
 - FILL EXISTING 15" CMP W/FLOWABLE FILL.
 - INSTALL 18" CMP W/ELBOWS, PREFORMED SCOUR HOLE & LATERAL BASE DITCH.
 - INSTALL MODIFIED CONCRETE FLUMES AND RIP RAP.
 - INSTALL CONCRETE V-DITCH.

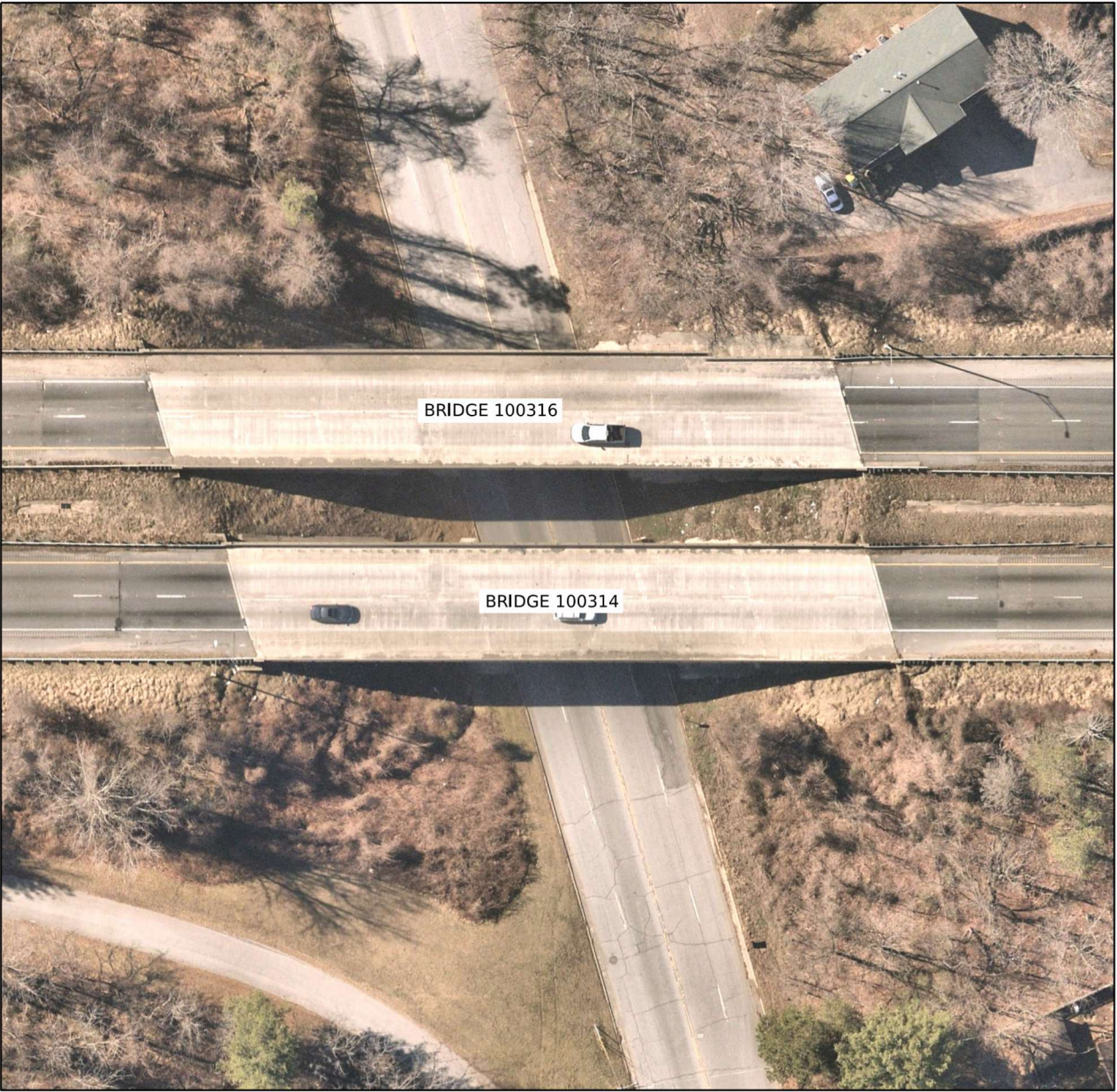
NOTES

REMOVAL OF CONCRETE PAVEMENT TO INSTALL DITCH AND REMOVAL OF EXISING SLOPE PROTECTION ARE INCLUDED UNDER THE "REMOVAL OF EXISTING STRUCTURE" PAY ITEM.

vhb
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DRAWN BY : J.R. HOPSON DATE : 8/2026
CHECKED BY : F.F. FLEMING DATE : 8/2026
DESIGN ENGINEER OF RECORD: _____ DATE : _____

PAY ITEM NO.	SEC. NO.	DESCRIPTION	QTY	UNIT
2570000000-N	SP	MODIFIED CONCRETE FLUME	4	EA
2264000000-E	840	PIPE PLUGS	0.045	CY
3649000000-E	876	RIP RAP, CLASS B	21	TON
3635000000-E	876	RIP RAP, CLASS II	130	TON
3659000000-N	873	PREFORMED SCOUR HOLES WITH LEVEL SPREADER APRON	1	EA
0335300000-E	305	18" DRAINAGE PIPE	136	LF
0335850000-E	305	18" DRAINAGE PIPE ELBOW	5	EA



PROJECT NO. 82000.03
BUNCOMBE COUNTY
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STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
REPAIRS FOR BRIDGES ON US I-26 OVER SR 1674 (OLD BURNSVILLE HILL RD) 100314 AND 100316					
REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
					DRN1-1
					TOTAL SHEETS
					21

An aerial photograph showing two concrete bridges spanning a road. The upper bridge is labeled 'BRIDGE 100316' and has a white car on it. The lower bridge is labeled 'BRIDGE 100314' and has two vehicles on it. The surrounding area is wooded with bare trees, and a house is visible in the upper right corner.

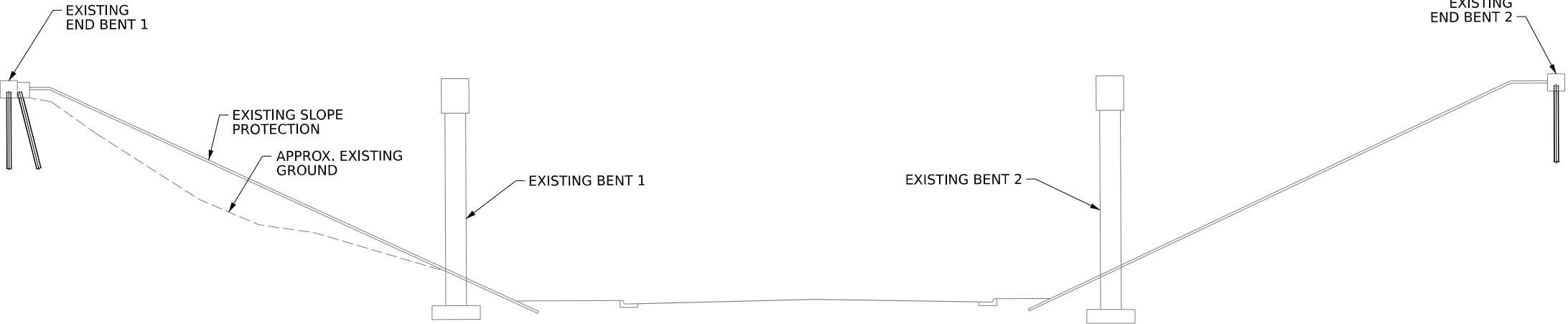
Line Item	Sec No.	Description	Quantity	Unit
0000100000-N	800	MOBILIZATION	1	LS
0063000000-N	SP	GRADING	1	LS
0194000000-E	265	SELECT GRANULAR MATERIAL, CLASS III	300	CY
1491000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0C	2	TON
1503000000-E	610	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	3	TON
1519000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	6	TON
1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	3	TON
1737000000-E	723	PATCHING CONCRETE PAVEMENT SPALLS	225	SF
2275000000-E	SP	FLOWABLE FILL	72	CY
2577000000-E	846	CONCRETE EXPRESSWAY GUTTER	25	LF
3345000000-E	864	REMOVE & RESET GUARDRAIL	100	LF
8035000000-N	402	REMOVAL OF EXISTING STRUCTURE (BRIDGE 100314)	1	LS
8035000000-N	402	REMOVAL OF EXISTING STRUCTURE (BRIDGE 100316)	1	LS
8121000000-N	412	UNCLASSIFIED STRUCTURE EXCAVATON (BRIDGE 100314)	1	LS
8121000000-N	412	UNCLASSIFIED STRUCTURE EXCAVATON (BRIDGE 100316)	1	LS
8531000000-E	462	4" SLOPE PROTECTION	270	SY
8608000000-E	876	RIP RAP CLASS II (2'-0")	684	TON
8622000000-E	876	GEOTEXTILE FOR DRAINAGE	760	SY
8802010000-E	SP	SOIL NAIL RETAINING WALL	1090	SF
8802015100-N	SP	SOIL NAIL VERIFICATION TESTS	4	EA
8881000000-E	SP	GENERIC STRUCTURE ITEM (INJECTABLE FOAM)	5	CY

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	SI-1
1			3			TOTAL SHEETS
2			4			21

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED



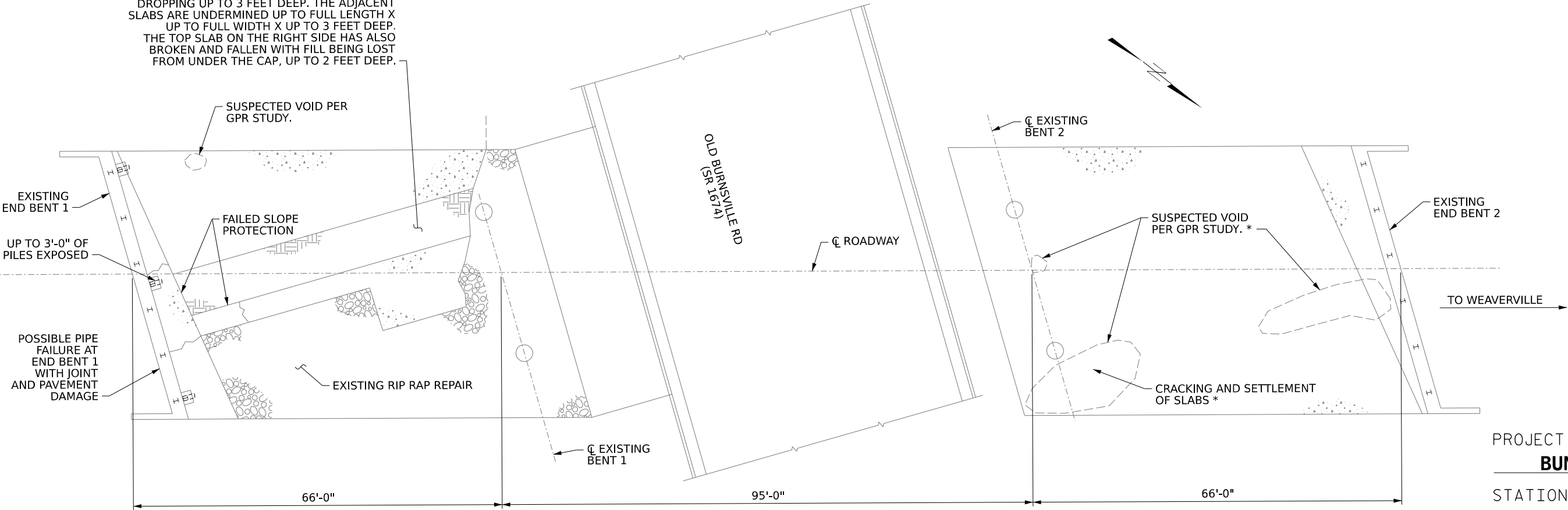
DRAWN BY : D.B. HINNANT DATE : 8/2026
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 DESIGN ENGINEER OF RECORD: C.S. PATEL DATE : 8/2026



NOTES:
VOIDS IDENTIFIED IN THE GPR STUDY BENEATH THE CONCRETE SLOPE PROTECTION ARE SHOWN FOR INFORMATION ONLY AND ARE EXCLUDED FROM THE SCOPE OF THIS REPAIR PROJECT.

EXISTING SECTION ALONG CL

POURED CONCRETE SLOPE PROTECTION HAS SUBSTANTIALLY FAILED. THE CENTER SECTION HAS BROKEN AND SETTLED FULL LENGTH, DROPPING UP TO 3 FEET DEEP. THE ADJACENT SLABS ARE UNDERMINED UP TO FULL LENGTH X UP TO FULL WIDTH X UP TO 3 FEET DEEP. THE TOP SLAB ON THE RIGHT SIDE HAS ALSO BROKEN AND FALLEN WITH FILL BEING LOST FROM UNDER THE CAP, UP TO 2 FEET DEEP.



EXISTING PLAN

* CONDITIONS OF CONCRETE SLOPE PROTECTION ARE PROVIDED FOR INFORMATION ONLY. REPAIR QUANTITIES ARE NOT INCLUDED FOR THESE AREAS.

PROJECT NO. **82000.03**
BUNCOMBE COUNTY
STATION: _____



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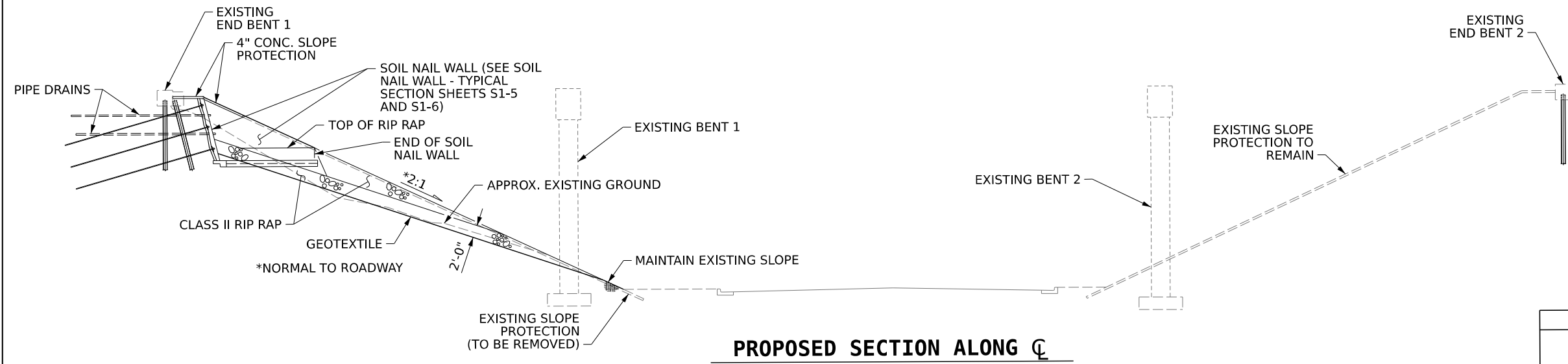
8/6/2026
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jet+wilson



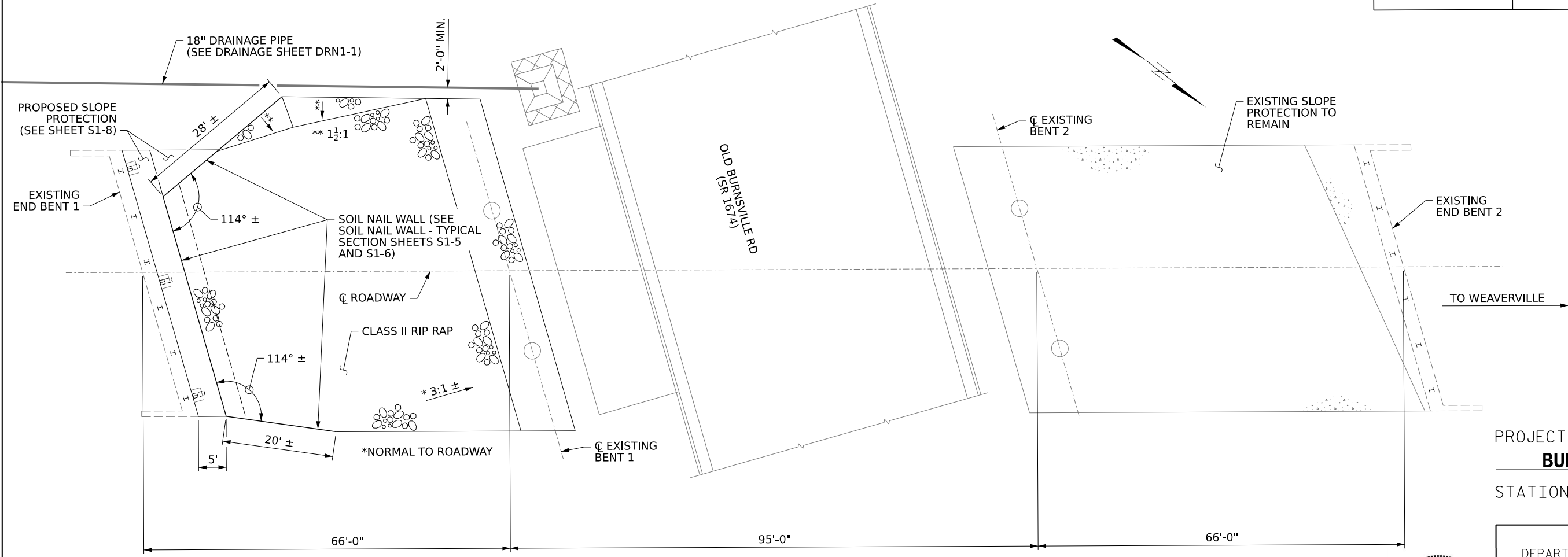
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
**REPAIRS FOR BRIDGES
ON US I-26 OVER SR 1674
(OLD BURNSVILLE
HILL RD)
100314**

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REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S1-2
1			3			TOTAL SHEETS
2			4			21



ESTIMATED QUANTITIES		
	RIP RAP CLASS II (2'-0" THICK)	GEOTEXTILE FOR DRAINAGE
	TONS	SQUARE YARDS
END BENT 1	243	270



PROJECT NO. **82000.03**
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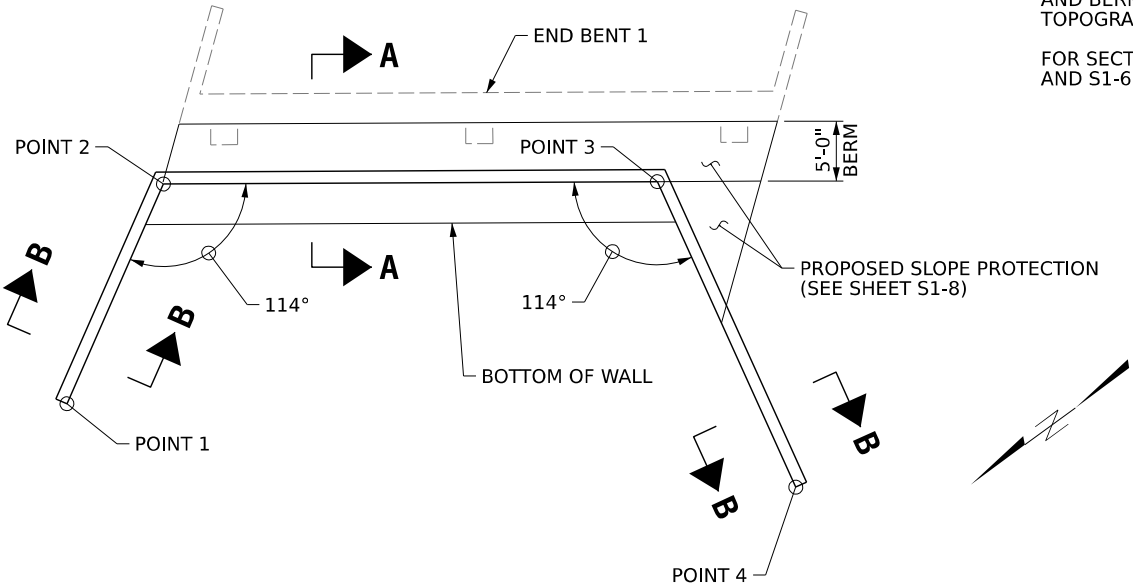
8/6/2026
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jet+wilson



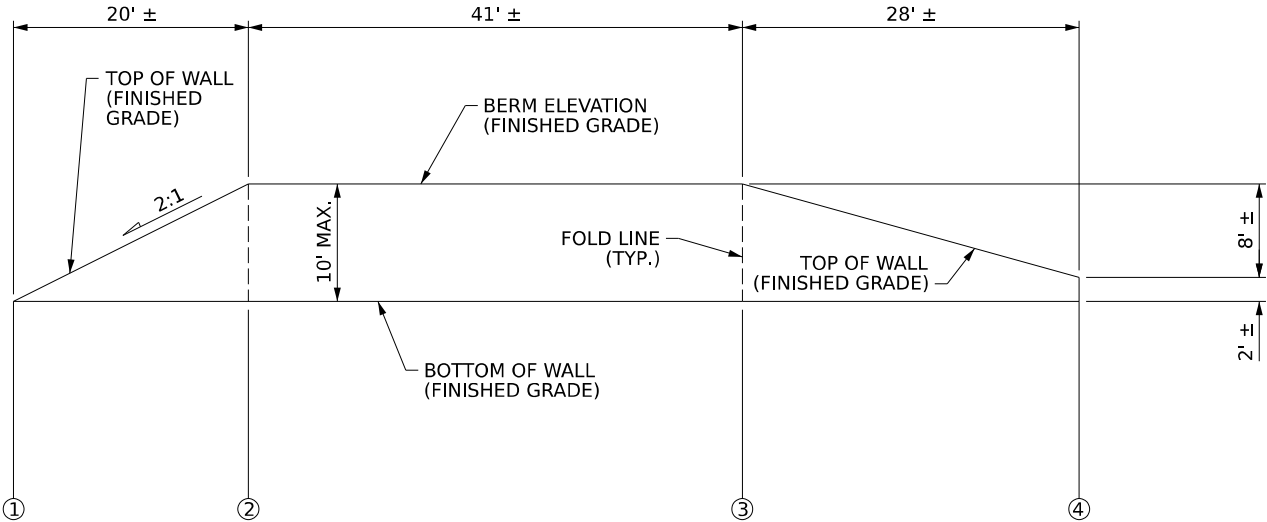
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REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			S1-3
2			4			TOTAL SHEETS 21



PLAN



ELEVATION

SOIL NAIL WALL AT END BENT 1

NOTES:

ALL DIMENSIONS SHOWN ARE BASED ON A-0010A SURVEY PROVIDED BY NCDOT AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR TO ENSURE SLOPES AND BERMS ARE PROPERLY TIED TO THE EXISTING TOPOGRAPHY

FOR SECTION CUTS A-A AND B-B SEE SHEET S1-5 AND S1-6.

PROJECT NO. **82000.03**

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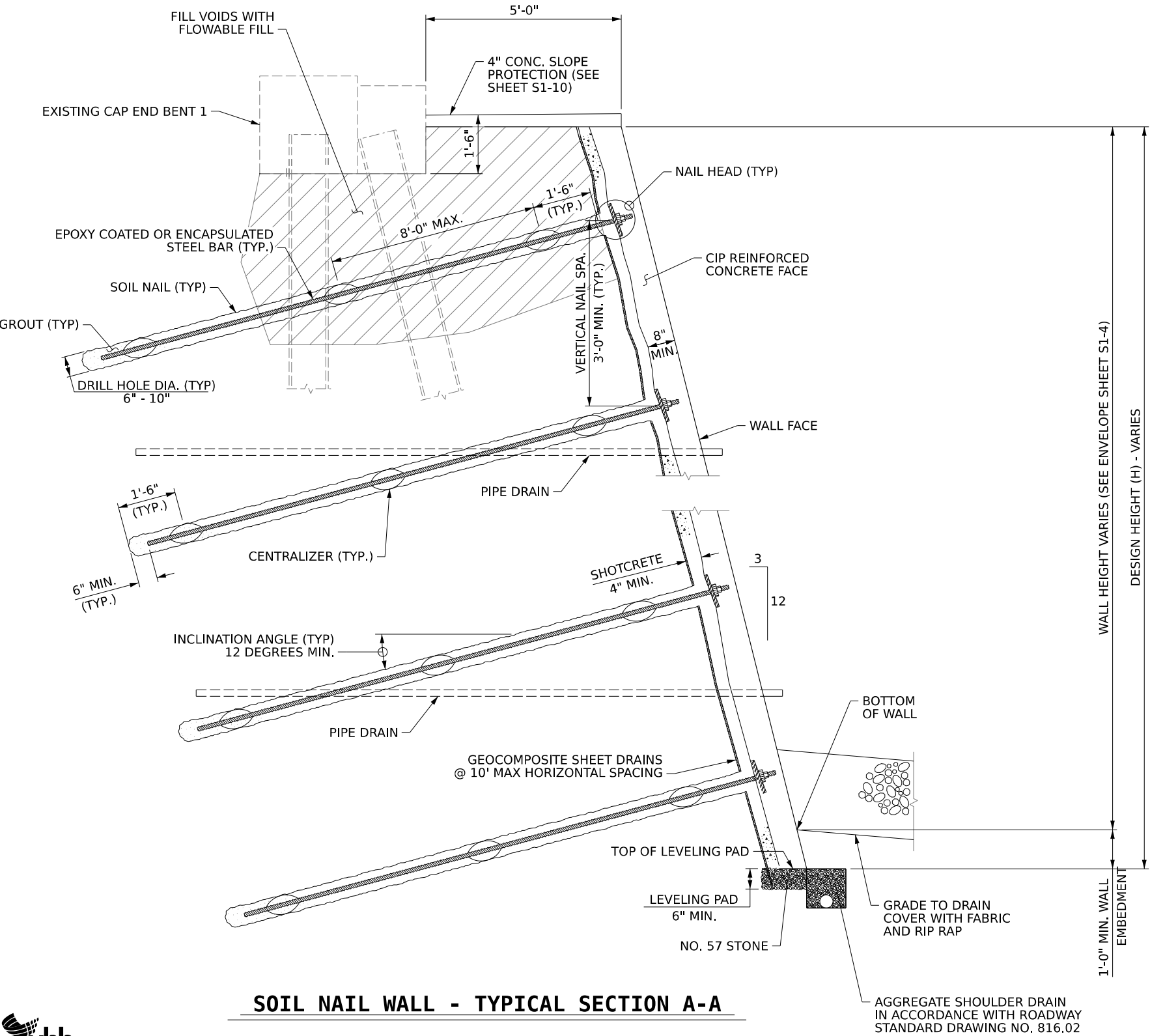
8/6/2026
c:\bms\vhb-pw-01\d0273717\82000.03 Repair 10 SNWallEnvelope S1-04.dgn
jeffwilson



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
**REPAIRS FOR BRIDGES
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(OLD BURNSVILLE
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REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S1-4
1			3			TOTAL SHEETS
2			4			21



SOIL NAIL WALL - TYPICAL SECTION A-A

NOTES:

FOR SOIL NAIL RETAINING WALLS, SEE SOIL NAIL RETAINING WALLS PROVISION.

BEFORE BEGINNING SOIL NAIL WALL DESIGN FOR RETAINING WALL, SURVEY WALL LOCATION AND SUBMIT A REVISED WALL PROFILE VIEW (WALL ENVELOPE) FOR REVIEW. DO NOT START WALL DESIGN OR CONSTRUCTION UNTIL THE REVISED WALL ENVELOPE IS ACCEPTED.

- DESIGN RETAINING WALL FOR THE FOLLOWING:
- 1) DESIGN HEIGHT (H) = WALL HEIGHT + WALL EMBEDMENT
 - 2) DESIGN LIFE = 75
 - 3) MINIMUM WALL EMBEDMENT ELEVATION = 1 FT
 - 4) IN-SITU ASSUMED MATERIAL PARAMETERS
UNIT WEIGHT, γ = 120 PCF
FRICTION ANGLE, ϕ = 28 DEGREES
COHESION, c = 0 PSF

THE WALL SITE FOR RETAINING WALL LOCATED AT END BENT NO. 1 IS CLASSIFIED AS AASHTO SITE CLASS E.

DESIGN RETAINING WALL FOR A PIPE EXTENDING THROUGH THE WALL AS SHOWN. VERIFY PIPE LOCATION AND ELEVATION BEFORE BEGINNING SOIL NAIL WALL DESIGN OR CONSTRUCTION.

FOUNDATIONS FOR END BENT NO. 1 WILL INTERFERE WITH SOIL NAILS FOR RETAINING WALL.

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100314 AND 100316**

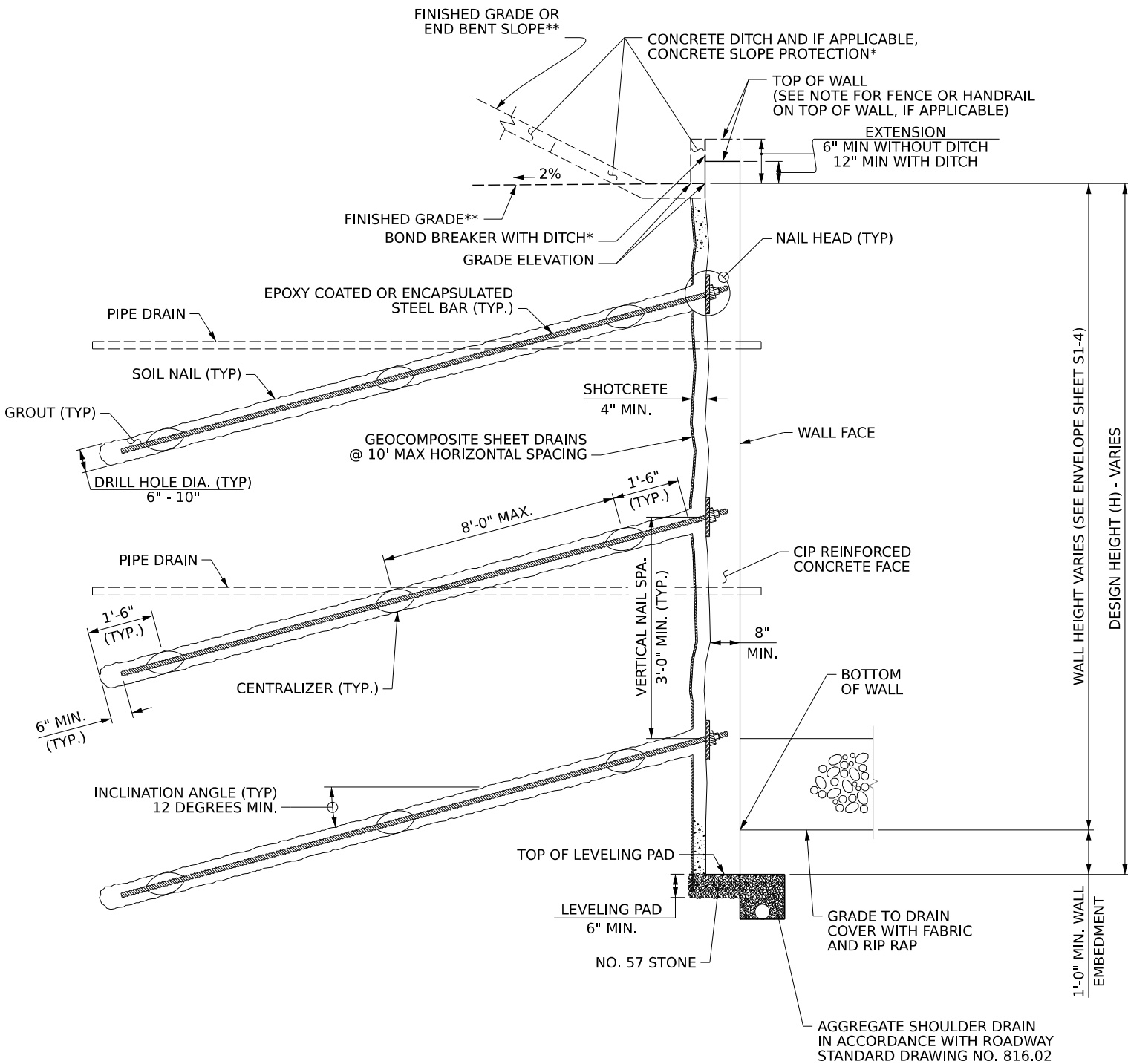
REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			S1-5
2			4			TOTAL SHEETS 21

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED



VHB Engineering NC, P.C. (C-3705)
940 Main Campus Drive, Suite 500
Raleigh, NC 27606

DRAWN BY : **D.B. HINNANT** DATE : **8/2026**
CHECKED BY : **C.S. PATEL** DATE : **8/2026**
DESIGN ENGINEER OF RECORD: **C.S. PATEL** DATE : **8/2026**



SOIL NAIL WALL - TYPICAL SECTION B-B

PROJECT NO. **82000.03**

BUNCOMBE COUNTY

STATION: _____



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Raleigh, NC 27606

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DESIGN ENGINEER OF RECORD: **C.S. PATEL** DATE : **8/2026**

8/6/2026
c:\bms\vhb-pw-01\d0273717\82000.03 Repair 12 SNWall S1-06.dgn
jet+wilson



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
**REPAIRS FOR BRIDGES
ON US I-26 OVER SR 1674
(OLD BURNSVILLE
HILL RD)
100314 AND 100316**

DOCUMENT NOT CONSIDERED
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SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S1-6
1			3			TOTAL SHEETS
2			4			21

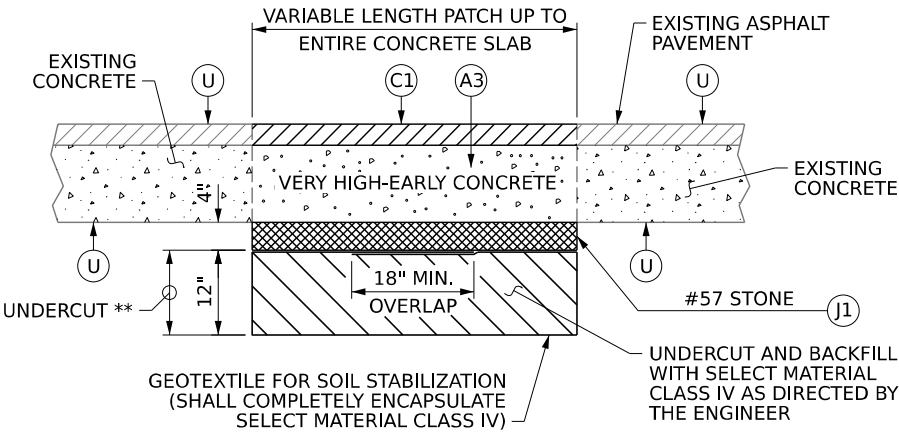
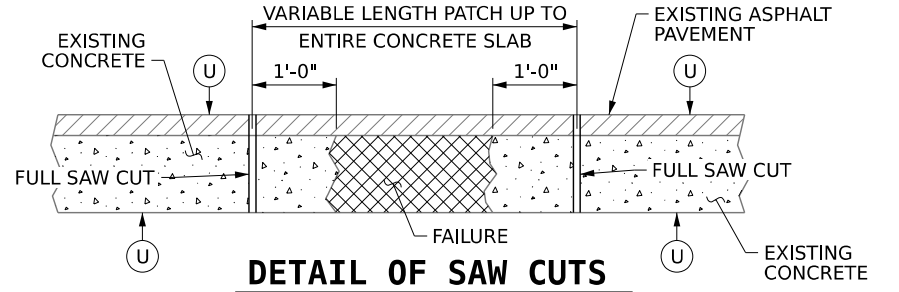
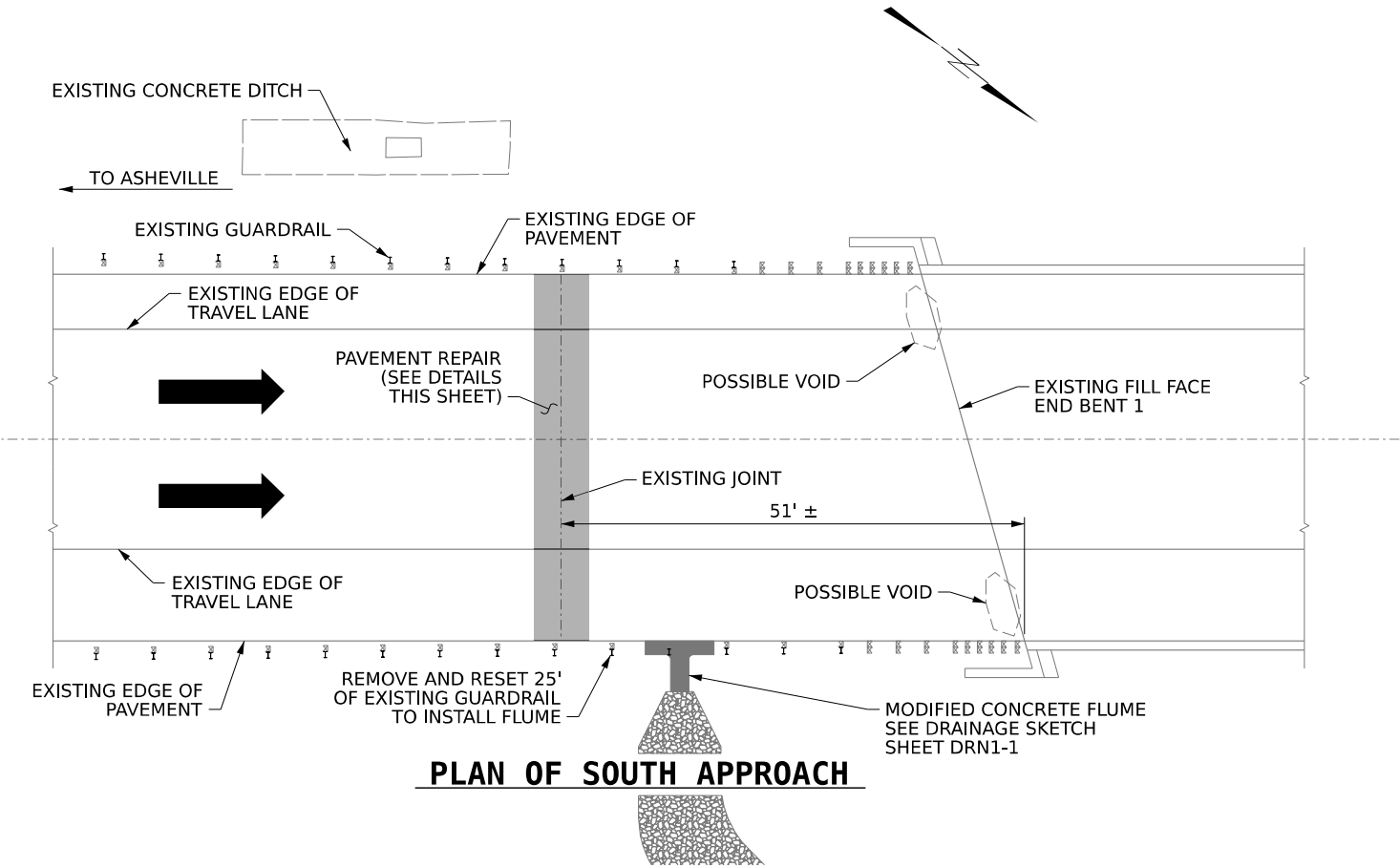
NOTES:

CONTRACTOR TO VERIFY ANY ADDITIONAL VOIDS UNDER THE APPROACH SLABS.

VOIDS IDENTIFIED NEED TO BE REPAIRED BY INJECTING FOAM AS PER THE SPECIAL PROVISIONS.

THE CONCRETE SPALL REPAIR ONLY APPLIES TO THE AREAS DAMAGED BY THE FOAM INJECTION OR AS DEEMED NECESSARY BY THE ENGINEER AND SHALL BE PAID FOR UNDER THE PATCHING CONCRETE PAVEMENT SPALLS PAY ITEM.

CONTRACTOR MAY PLACE CONCRETE CONTINUOUSLY OR IN STRIPS. IF POURED IN STRIPS, PROVIDE CONSTRUCTION JOINT AS DETAILED



** UNDERCUT REQUIRED IN AREAS AS DIRECTED BY THE ENGINEER

PAVEMENT SCHEDULE	
C1	3" S9.5C
A3	VERY HIGH-EARLY CONCRETE
J1	#57 STONE
U	EXISTING PAVEMENT

PROJECT NO. **82000.03**

BUNCOMBE COUNTY

STATION: _____



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Raleigh, NC 27606

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DESIGN ENGINEER OF RECORD: **C.S. PATEL** DATE : **8/2026**

8/6/2026
c:\bms\vhb-pw-01\d0273717\82000.03 Repair 13 AS S1-07.dgn
jeffwilson



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
**REPAIRS FOR BRIDGES
ON US I-26 OVER SR 1674
(OLD BURNSVILLE
HILL RD)
100314**

DOCUMENT NOT CONSIDERED
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SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S1-7
1			3			TOTAL SHEETS
2			4			21

GENERAL NOTES

SLOPE PROTECTION SHALL BE PLACED UNDER THE ENDS OF THE BRIDGE AS SHOWN IN THE DETAILS. STRAIGHT EDGING WILL NOT BE REQUIRED UNLESS, IN THE OPINION OF THE ENGINEER, VISUAL INSPECTION INDICATES A NEED FOR IT. MEASUREMENT AND PAYMENT SHALL BE AS PRESCRIBED IN SECTION 462 OF THE STANDARD SPECIFICATIONS. FOR BERM WIDTH, SEE GENERAL DRAWING.

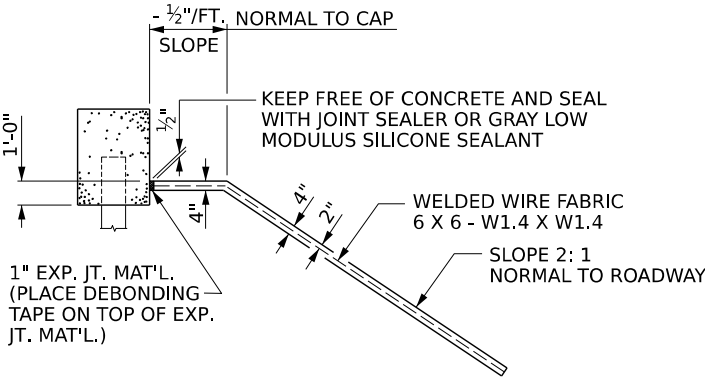
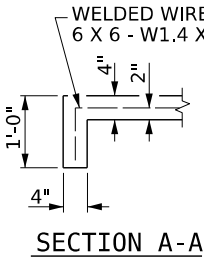
REMOVAL OF CONCRETE PAVEMENT TO INSTALL DITCH AND REMOVAL OF EXISING SLOPE PROTECTION ARE INCLUDED UNDER THE "REMOVAL OF EXISTING STRUCTURE" PAY ITEM.

ALTERNATE "A"

ALTERNATE "A" SHALL CONSIST OF 4" POURED-IN-PLACE CONCRETE SLOPE PROTECTION AS SHOWN IN THE DETAILS ON THIS SHEET. CONCRETE SHALL BE CLASS "B". THE CONCRETE SURFACE SHALL BE FLOATED WITH A WOODEN FLOAT AND FINISHED. WELDED WIRE FABRIC REINFORCING SHALL BE 6 X 6 - W1.4 X W1.4, 60" WIDE. SLOPE PROTECTION SHALL BE POURED IN 5' STRIPS AS SHOWN IN THE "POURING DETAIL" WITH 2'-0" LONG #4 BARS PLACED ALONG THE SLOPE BETWEEN STRIPS AT 1'-6" MAXIMUM SPACING. SLOPE PROTECTION MAY BE POURED IN ALTERNATE 4' AND 5' STRIPS AS SHOWN IN THE "OPTIONAL POURING DETAIL" WITH ADJACENT RUNS OF WELDED WIRE FABRIC LAPPING AT LEAST 6". THE COST OF THE WELDED WIRE FABRIC AND #4 BARS, IF USED, SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID PER SQUARE YARD FOR SLOPE PROTECTION.

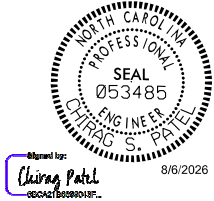
	4 INCH SLOPE PROTECTION	* WELDED WIRE FABRIC 60 INCHES WIDE
	SQUARE YARDS	APPROX. L.F.
END BENT 1	40	80

* QUANTITY SHOWN IS BASED ON 5' POURS.



PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PROJECT NO. **82000.03**
BUNCOMBE COUNTY
STATION: _____

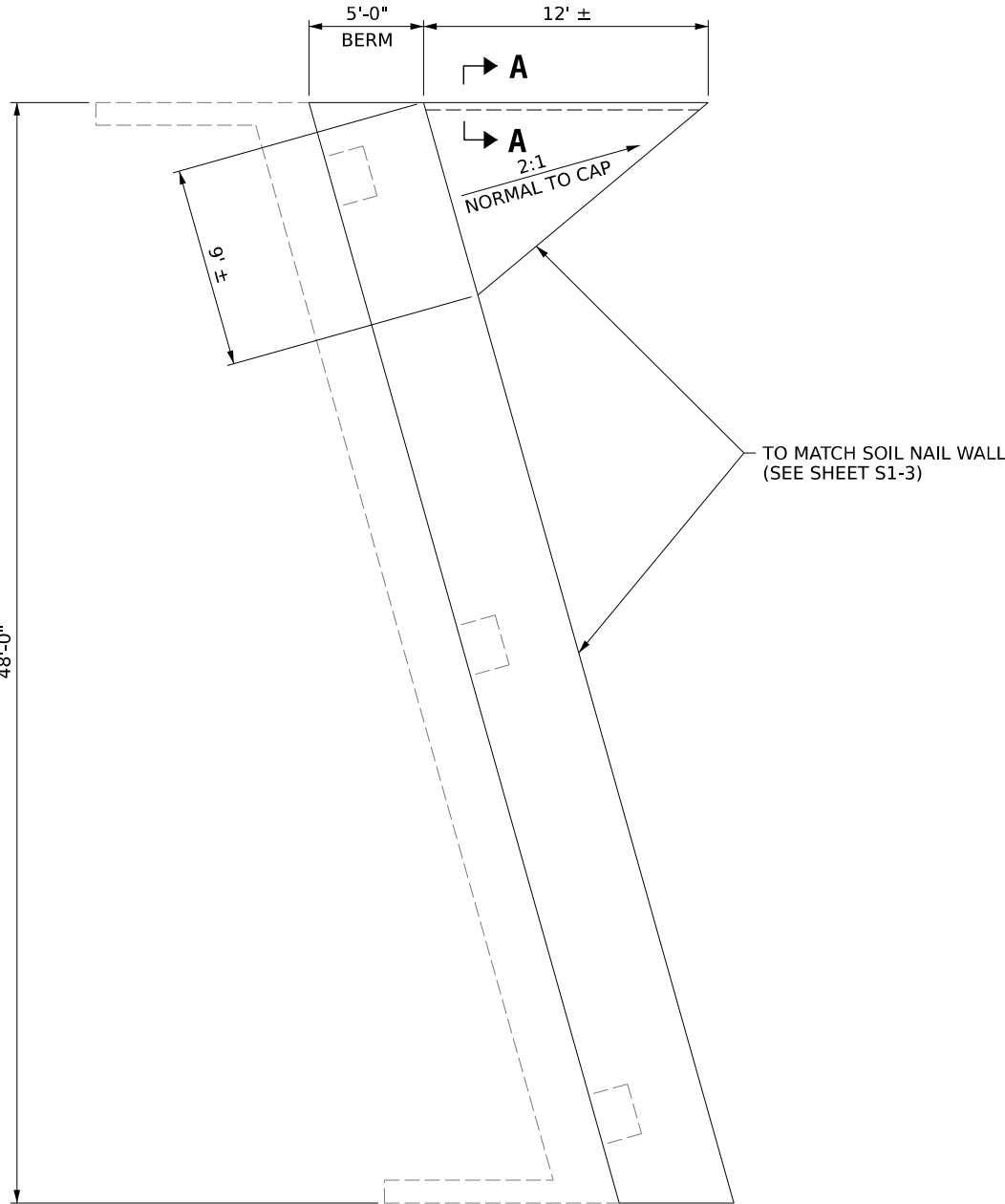


STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
**STANDARD
SLOPE PROTECTION
DETAILS**

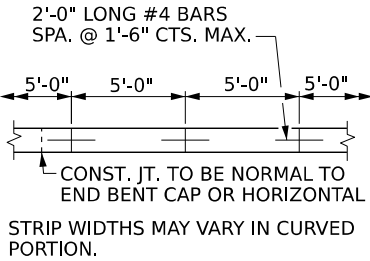
REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	BY:	
1			3		S1-8 TOTAL SHEETS 21
2			4		

DOCUMENT NOT CONSIDERED
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SIGNATURES COMPLETED

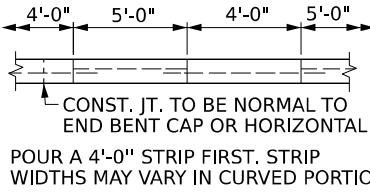
STD. NO. SP1



PLAN



POURING DETAIL



OPTIONAL POURING DETAIL

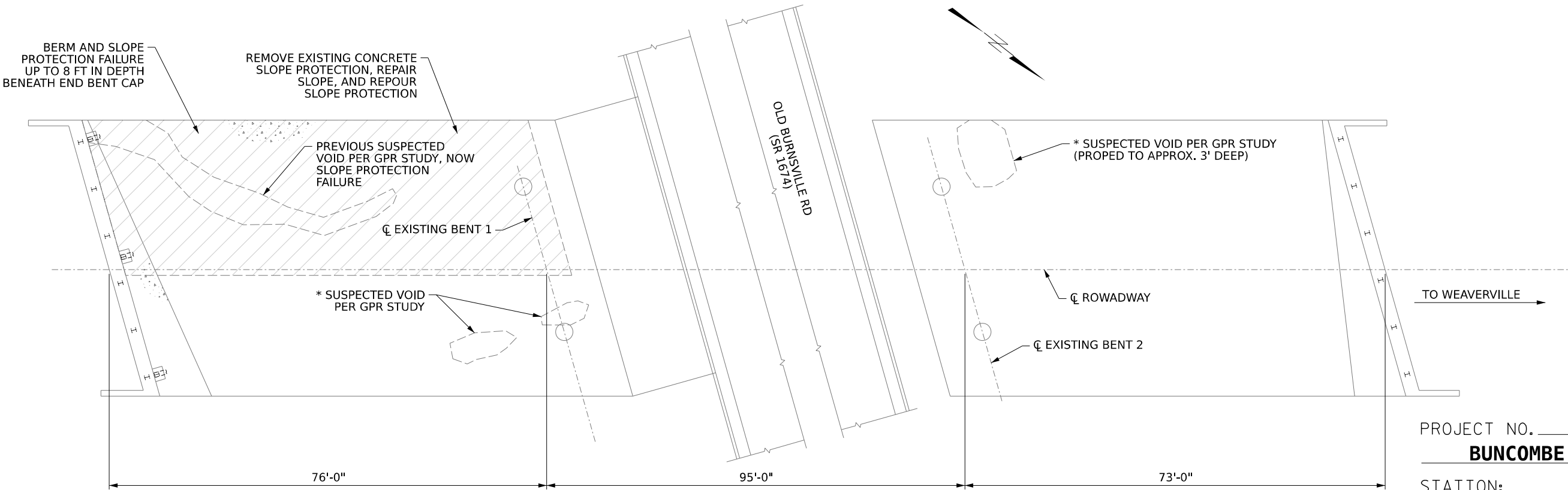
ASSEMBLED BY : D.B. HINNANT	DATE : 4/2026
CHECKED BY : C.S. PATEL	DATE : 4/2026

DRAWN BY : ELR 5/92	REV. 12/21/11	MAA/GM
CHECKED BY : GRP 6/92	REV. 1/16	MAA/TMG
	REV. 12/17	MAA/THC



EXISTING SECTION ALONG CL (NBL)

NOTES:
VOIDS IDENTIFIED IN THE GPR STUDY BENEATH THE CONCRETE SLOPE PROTECTION ARE SHOWN FOR INFORMATION ONLY AND ARE EXCLUDED FROM THE SCOPE OF THIS REPAIR PROJECT.



EXISTING PLAN (NBL)

*CONDITIONS OF CONCRETE SLOPE PROTECTION ARE PROVIDED FOR INFORMATION ONLY. REPAIR QUANTITIES ARE NOT INCLUDED FOR THESE AREAS.

PROJECT NO. **82000.03**
BUNCOMBE COUNTY
STATION: _____



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Raleigh, NC 27606

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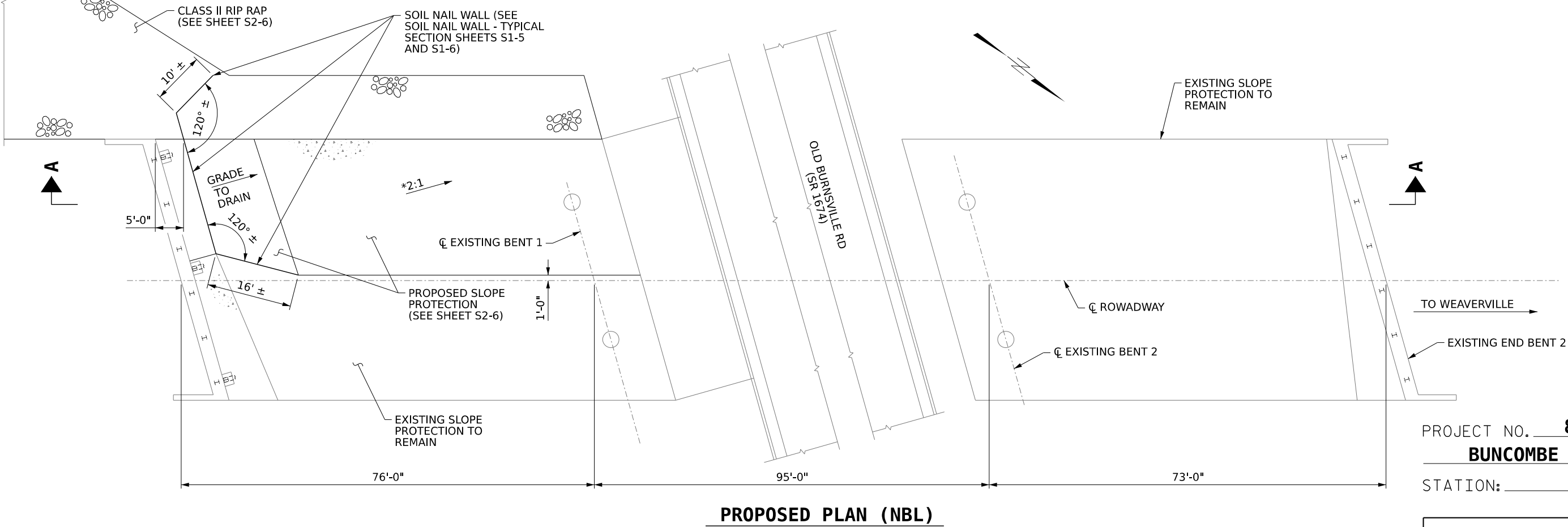
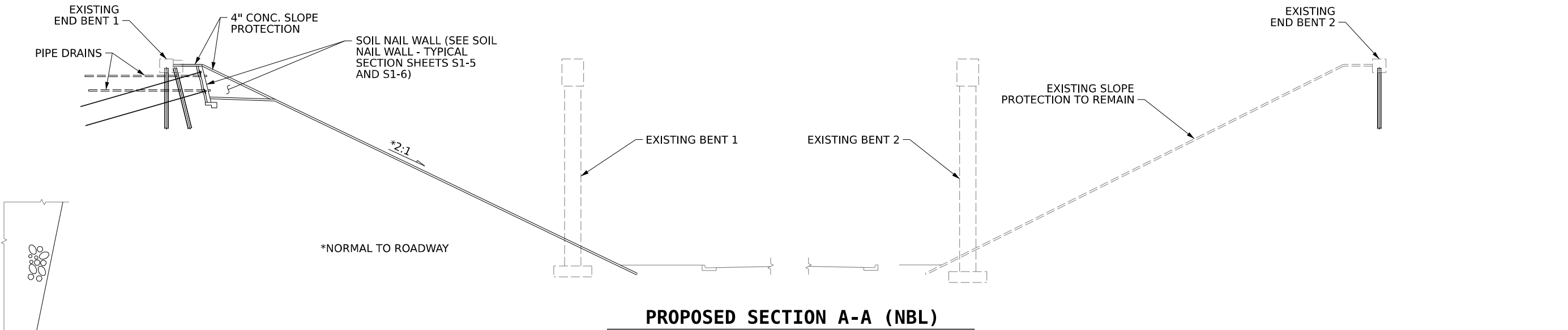
8/6/2026
c:\bms\vhb-pw-01\d0273717\82000.03 Repair 15 GD S2-01.dgn
jet+wilson



DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
**REPAIRS FOR BRIDGES
ON US I-26 OVER SR 1674
(OLD BURNSVILLE
HILL RD)
100316**

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S2-1
1			3			TOTAL SHEETS
2			4			21



PROJECT NO. **82000.03**
BUNCOMBE COUNTY
STATION: _____

vhb
VHB Engineering NC, P.C. (C-3705)
940 Main Campus Drive, Suite 500
Raleigh, NC 27606

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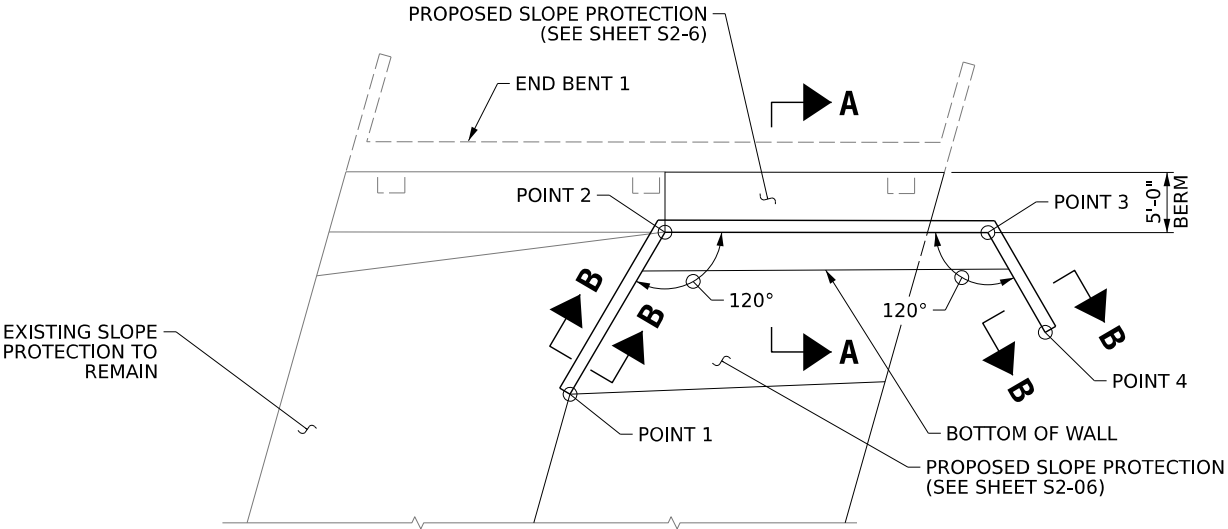
8/6/2026
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jet+wilson



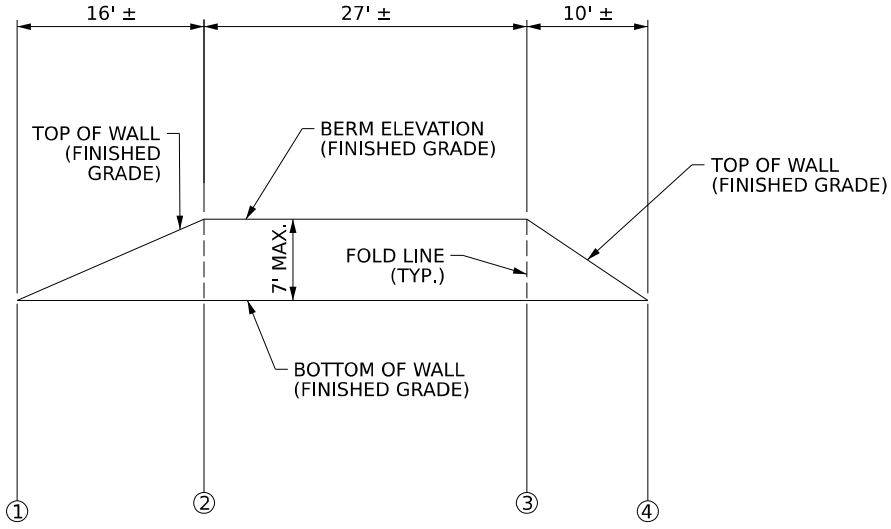
STATE OF NORTH CAROLINA
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RALEIGH
**REPAIRS FOR BRIDGES
ON US I-26 OVER SR 1674
(OLD BURNSVILLE
HILL RD)
100316**

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REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S2-2
1			3			TOTAL SHEETS
2			4			21



PLAN



ELEVATION

SOIL NAIL WALL AT END BENT 1

NOTES:

ALL DIMENSIONS SHOWN ARE BASED ON A-0010A SURVEY PROVIDED BY NCDOT AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR TO ENSURE SLOPES AND BERMS ARE PROPERLY TIED TO THE EXISTING TOPOGRAPHY

FOR SECTION CUTS A-A AND B-B SEE SHEET S1-5 AND S1-6.

PROJECT NO. **82000.03**
BUNCOMBE COUNTY
STATION: _____



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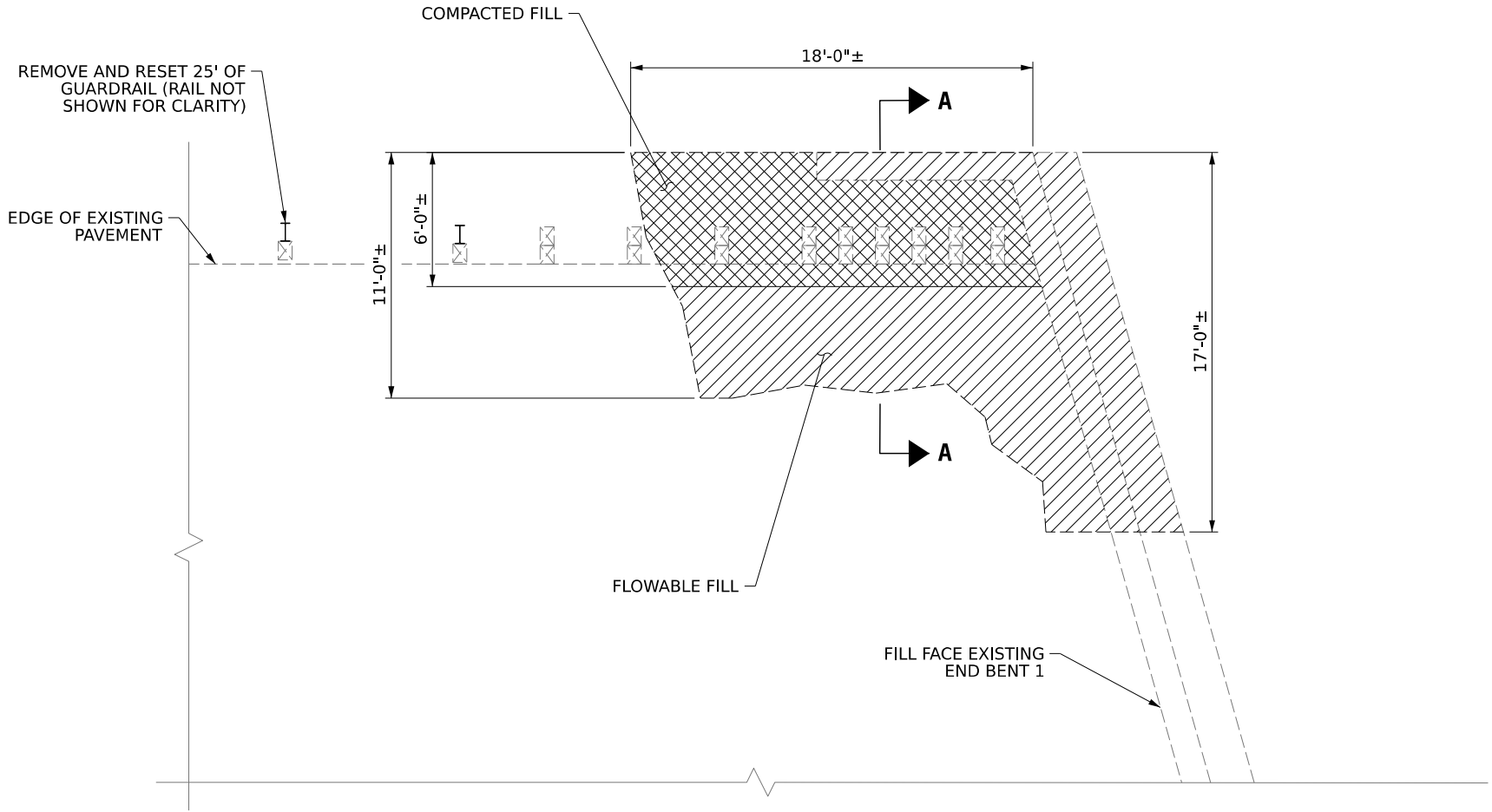
STATE OF NORTH CAROLINA
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RALEIGH
**REPAIRS FOR BRIDGES
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HILL RD)
100316**

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SIGNATURES COMPLETED

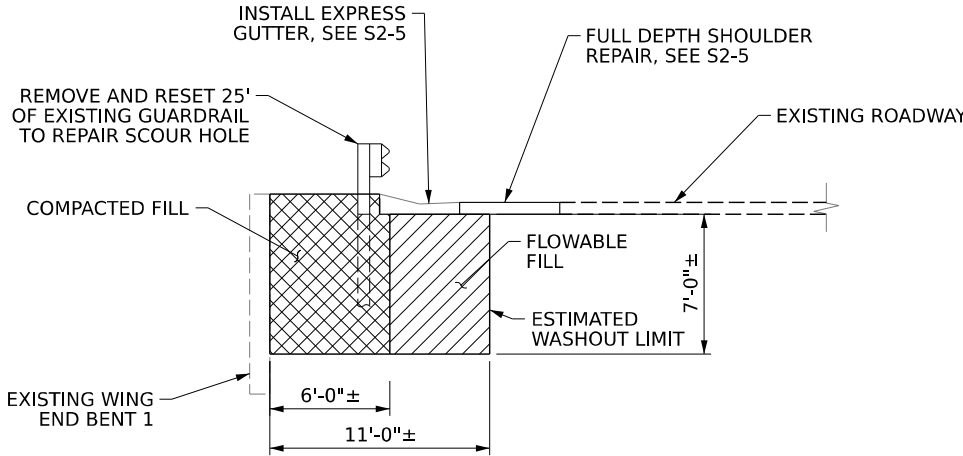
REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S2-3
1			3			TOTAL SHEETS
2			4			21

NOTE:

FULL DEPTH SHOULDER REPAIR
AND EXPRESSWAY GUTTER NOT
SHOWN FOR CLARITY, SEE S2-5.



PLAN OF SCOUR HOLE AT END BENT 1



SECTION A-A

PROJECT NO. **82000.03**

BUNCOMBE COUNTY

STATION: _____



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8/6/2026
c:\bms\vhb-pw-01\d0273717\82000.03 Repair 18 W0 S2-04.dgn
jet+wilson



Signed by:
Chirag Patel
08CA276959043F...

8/6/2026

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
**REPAIRS FOR BRIDGES
ON US I-26 OVER SR 1674
(OLD BURNSVILLE
HILL RD)
100316**

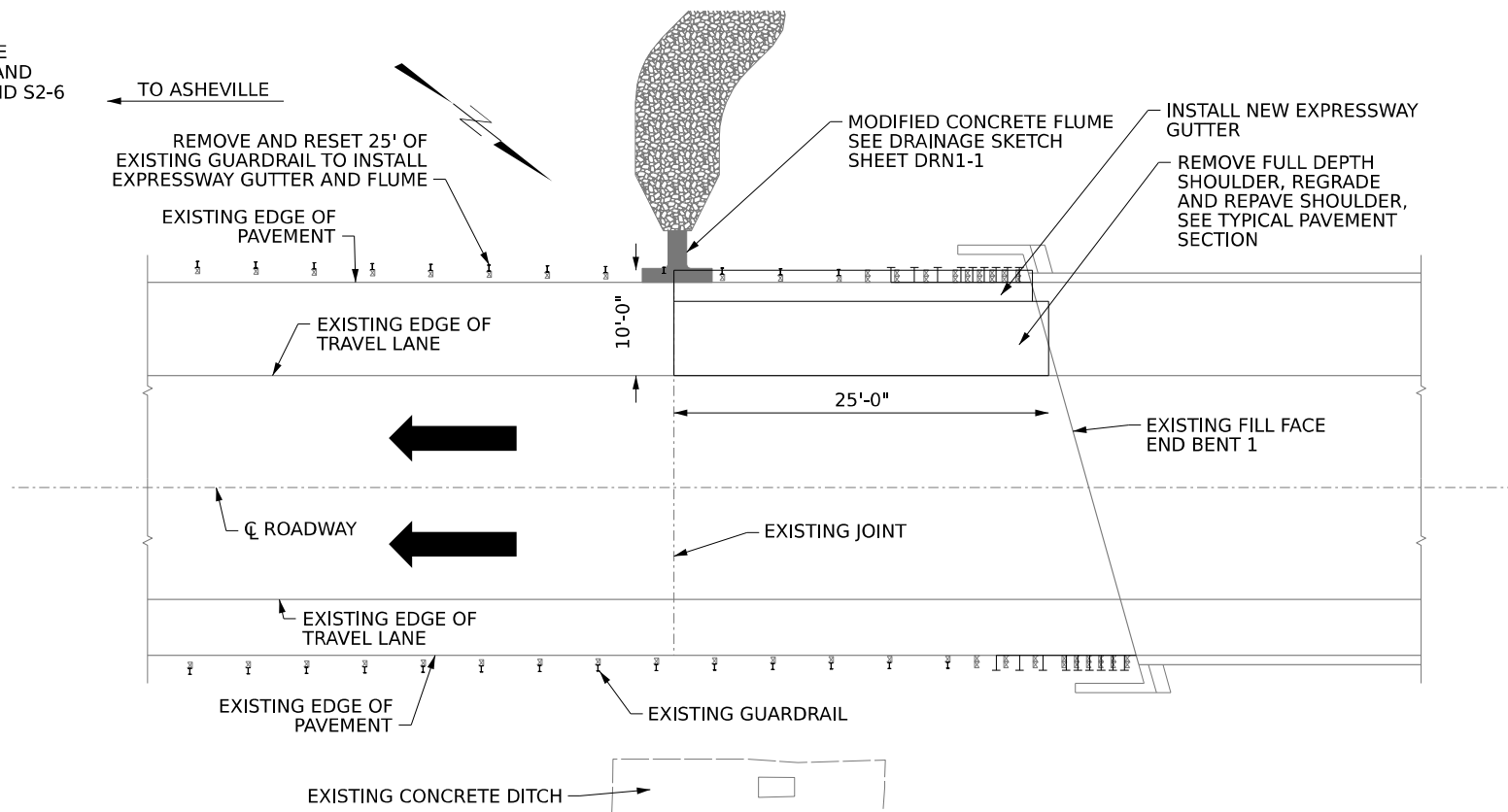
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FINAL UNLESS ALL
SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S2-4
1			3			TOTAL SHEETS
2			4			21

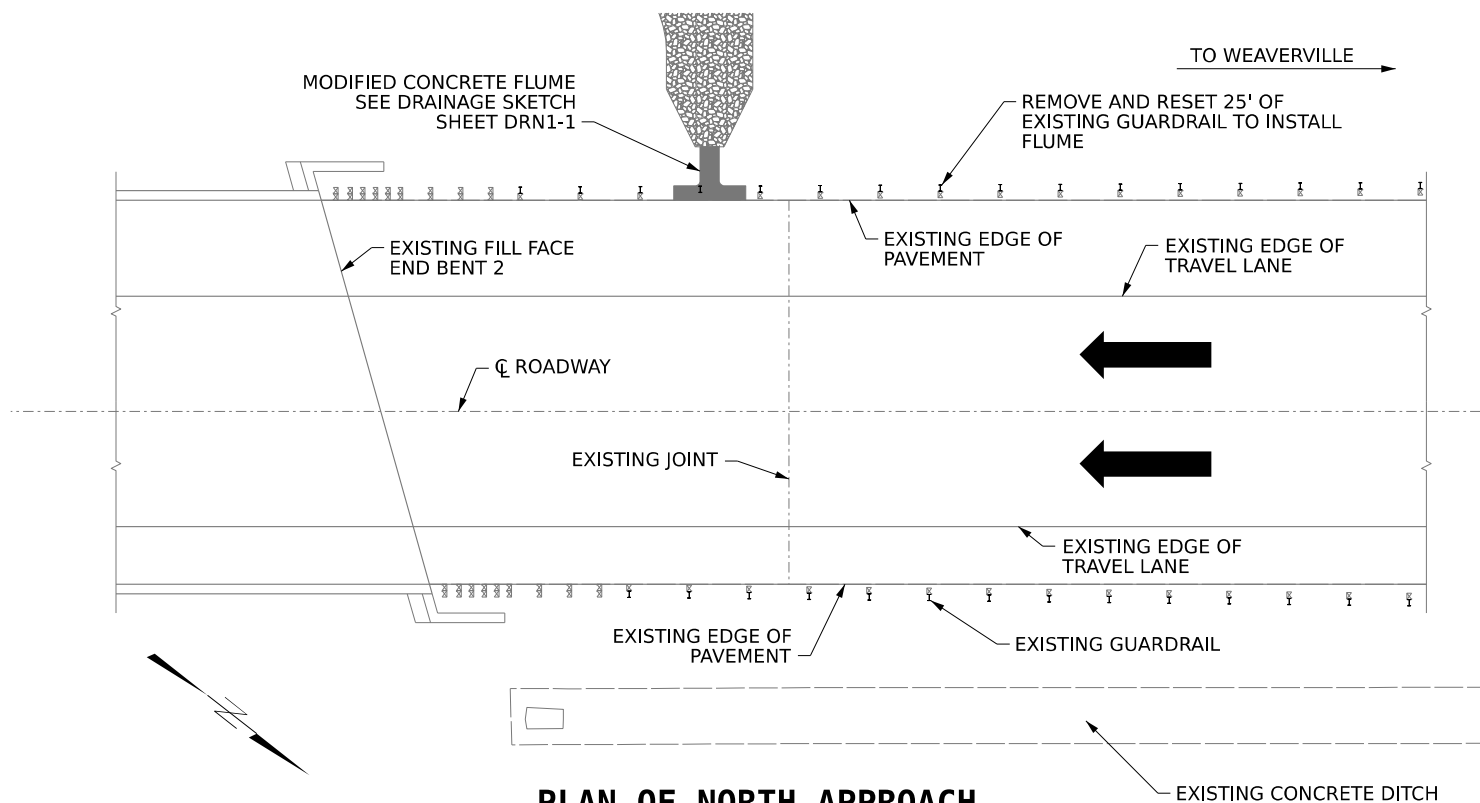
+

NOTES:

REGRADE SHOULDER SLOPE
AND INSTALL GEOTEXTILE AND
RIPRAP, SEE SHEET S1-1 AND S2-6



PLAN OF SOUTH APPROACH



PLAN OF NORTH APPROACH



VHB Engineering NC, P.C. (C-3705)
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Raleigh, NC 27606

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 CHECKED BY : C.S. PATEL DATE : 8/2026
 DESIGN ENGINEER OF RECORD: C.S. PATEL DATE : 8/2026

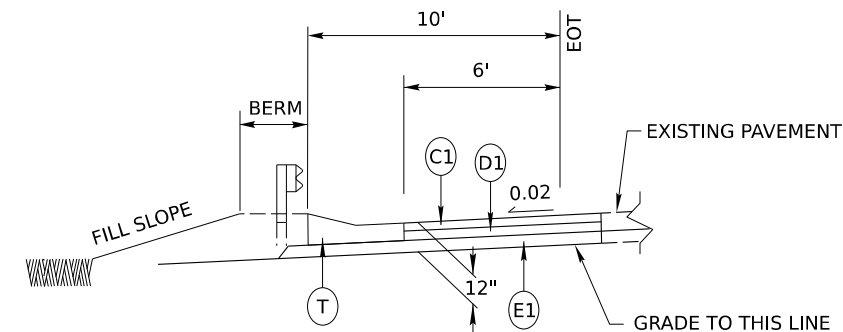
8/6/2026
c:\bms\vhb-pw-01\d0273717\82000.03 Repair 19 PS S2-05.dgn
jeffwilson

NOTES:

CONTRACTOR TO VERIFY ANY ADDITIONAL VOIDS
UNDER THE APPROACH SLABS.

VOIDS IDENTIFIED TO BE REPAIRED BY
INJECTING FOAM AS PER THE SPECIAL PROVISION.

THE CONCRETE SPALL REPAIR ONLY
APPLIES TO THE AREAS DAMAGED BY THE FOAM
INJECTION OR AS DEEMED NECESSARY BY THE ENGINEER
AND SHALL BE PAID FOR UNDER THE PATCHING CONCRETE
PAVEMENT SPALLS PAY ITEM.



TYPICAL SECTION PAVEMENT

NOT TO SCALE

PAVEMENT SCHEDULE	
C1	3" S9.5C
D1	4" 19.0C,
E1	5" B25.0C,
T	EXPRESSWAY GUTTER

PROJECT NO. **82000.03**

BUNCOMBE COUNTY

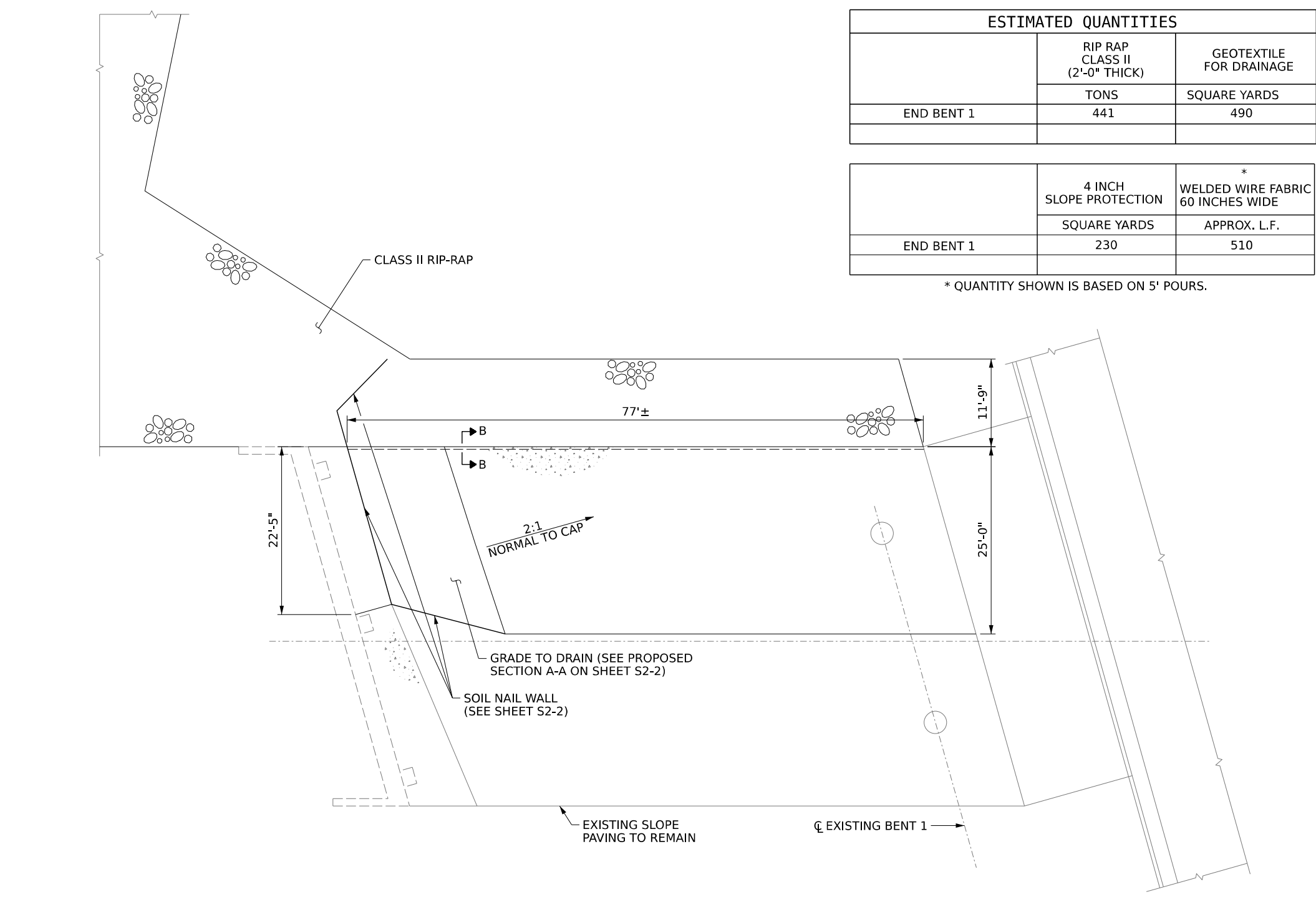
STATION: _____



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
**REPAIRS FOR BRIDGES
ON US I-26 OVER SR 1674
(OLD BURNSVILLE
HILL RD)
100316**

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S2-5
1			3			TOTAL SHEETS
2			4			21

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED



ESTIMATED QUANTITIES		
	RIP RAP CLASS II (2'-0" THICK)	GEOTEXTILE FOR DRAINAGE
	TONS	SQUARE YARDS
END BENT 1	441	490

	4 INCH SLOPE PROTECTION	* WELDED WIRE FABRIC 60 INCHES WIDE
	SQUARE YARDS	APPROX. L.F.
END BENT 1	230	510

* QUANTITY SHOWN IS BASED ON 5' POURS.

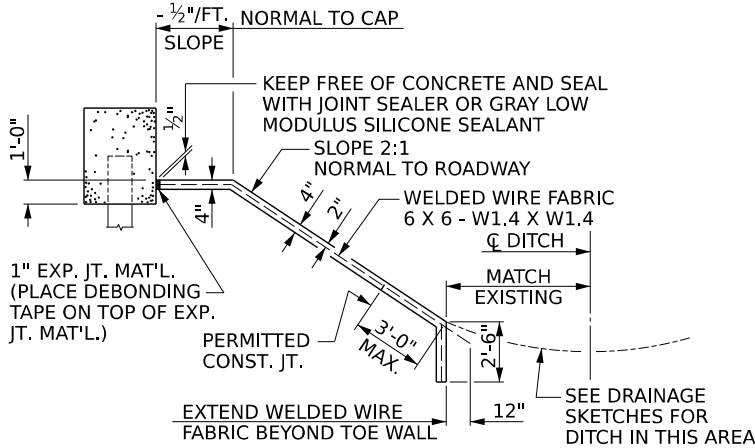
GENERAL NOTES

SLOPE PROTECTION SHALL BE PLACED UNDER THE ENDS OF THE BRIDGE AS SHOWN IN THE DETAILS. STRAIGHT EDGING WILL NOT BE REQUIRED UNLESS, IN THE OPINION OF THE ENGINEER, VISUAL INSPECTION INDICATES A NEED FOR IT. MEASUREMENT AND PAYMENT SHALL BE AS PRESCRIBED IN SECTION 462 OF THE STANDARD SPECIFICATIONS. FOR BERM WIDTH, SEE GENERAL DRAWING.

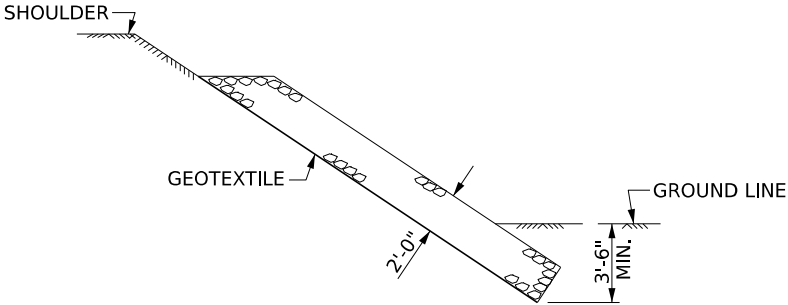
REMOVAL OF CONCRETE PAVEMENT TO INSTALL DITCH AND REMOVAL OF EXISTING SLOPE PROTECTIONS ARE INCLUDED UNDER THE "REMOVAL OF EXISTING STRUCTURE" PAY ITEM.

ALTERNATE "A"

ALTERNATE "A" SHALL CONSIST OF 4" POURED-IN-PLACE CONCRETE SLOPE PROTECTION AS SHOWN IN THE DETAILS ON THIS SHEET. CONCRETE SHALL BE CLASS "B". THE CONCRETE SURFACE SHALL BE FLOATED WITH A WOODEN FLOAT AND FINISHED. WELDED WIRE FABRIC REINFORCING SHALL BE 6 X 6 - W1.4 X W1.4, 60" WIDE. SLOPE PROTECTION SHALL BE POURED IN 5' STRIPS AS SHOWN IN THE "POURING DETAIL" WITH 2'-0" LONG #4 BARS PLACED ALONG THE SLOPE BETWEEN STRIPS AT 1'-6" MAXIMUM SPACING. SLOPE PROTECTION MAY BE POURED IN ALTERNATE 4' AND 5' STRIPS AS SHOWN IN THE "OPTIONAL POURING DETAIL" WITH ADJACENT RUNS OF WELDED WIRE FABRIC LAPPING AT LEAST 6". THE COST OF THE WELDED WIRE FABRIC AND #4 BARS, IF USED, SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID PER SQUARE YARD FOR SLOPE PROTECTION.



SECTION ALONG CL



RIP-RAP SECTION

PROJECT NO. **82000.03**

BUNCOMBE COUNTY

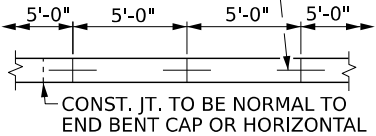
STATION: _____

1" EXP. JT. MAT'L.
(PLACE DEBONDING TAPE ON TOP OF EXP. JT. MAT'L.)

SEAL WITH GRAY LOW MODULUS SILICONE SEALANT, 1/2" DEEP (MIN.)

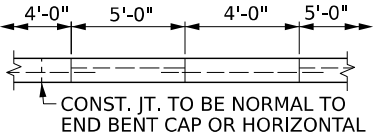
PLAN WHERE CONCRETE SLOPE PROTECTION MUST BE PLACED AROUND A BENT COLUMN

2'-0" LONG #4 BARS
SPA. @ 1'-6" CTS. MAX.



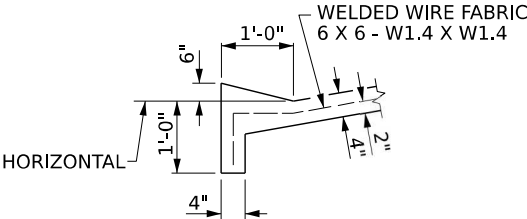
STRIP WIDTHS MAY VARY IN CURVED PORTION.

POURING DETAIL



POUR A 4'-0" STRIP FIRST. STRIP WIDTHS MAY VARY IN CURVED PORTION.

OPTIONAL POURING DETAIL



SECTION B-B



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

REPAIRS FOR BRIDGES
ON US I-26 OVER SR 1674
(OLD BURNSVILLE
HILL RD)
100316

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S2-6
1			3			TOTAL SHEETS
2			4			21



VHB Engineering NC, P.C. (C-3705)
940 Main Campus Drive, Suite 500
Raleigh, NC 27606

DRAWN BY : D.B. HINNANT	DATE : 8/2026
CHECKED BY : C.S. PATEL	DATE : 8/2026
DESIGN ENGINEER OF RECORD: C.S. PATEL	DATE : 8/2026

MANAGEMENT STRATEGIES

THE FOLLOWING LISTED WORK ZONE STRATEGIES ARE RECOMMENDED FOR INCLUSION WITHIN THIS TRANSPORTATION MANAGEMENT PLAN (TMP).

RECOMMENDED STRATEGIES:

TRAFFIC MANAGEMENT STRATEGIES:

- LANE SHIFTS OR CLOSURES
- SHOULDER CLOSURES
- NIGHT WORK
- WEEKEND WORK
- WORK HOUR RESTRICTIONS FOR PEAK TRAVEL

WORK ZONE SAFETY & MOBILITY STRATEGIES:

- SEQUENTIAL LIGHTING
- PRESENCE LIGHTING

TRAFFIC / INCIDENT MANAGEMENT & SPEED ENFORCEMENT STRATEGIES:

- ITS FOR TRAFFIC MONITORING / MANAGEMENT (SMART WORKZONE)
- COORDINATION WITH STATE TRAFFIC OPERATIONS CENTER (STOC)

CONTRACTING & INNOVATIVE CONSTRUCTION STRATEGIES:

- INTERMEDIATE CONTRACT TIMES / LIQUIDATED DAMAGES

PHASING

MAINTAIN VEHICULAR ACCESS TO ALL RESIDENCES AND BUSINESSES DURING THE LIFE OF THE CONTRACT UNLESS OTHERWISE NOTED IN THE PHASING OR DIRECTED BY THE ENGINEER.

PHASE I

- STEP 1 - USING RSD 1101.04, SHEET 1 OF 2, CLOSE THE OUTSIDE SHOULDER ON I-26 EB ON BRIDGE 100316 WITH UNANCHORED TEMPORARY PORTABLE CONCRETE BARRIER.
- STEP 2 - USING RSD 1101.02, SHEET 3 OF 19 AS NEEDED, REMOVE AND RESET THE UNANCHORED TEMPORARY PORTABLE CONCRETE BARRIER PLACED IN STEP 1 TO CLOSE THE OUTSIDE TRAVEL LANE ON I-26 EB IN ADVANCE OF BRIDGE 100316 AND TO COMPLETE REPAIRS ON THE OUTSIDE OF I-26 EB. RESTORE THE SHOULDER CLOSURE AT THE END OF EACH WORK PERIOD UNTIL THE WORK IS COMPLETE. UPON COMPLETION OF THE WORK, USING RSD 1101.02, SHEET 3 OF 19 AS NEEDED, CLOSE THE OUTSIDE TRAVEL LANE ON I-26 EB AND REMOVE THE TEMPORARY PORTABLE CONCRETE BARRIER AND SHOULDER CLOSURE.
- STEP 3 - USING RSD 1101.02, SHEET 3 OF 19 AS NEEDED, CLOSE ONE TRAVEL LANE ON I-26 EB IN ADVANCE OF BRIDGE 100314 TO COMPLETE REPAIRS WITHIN THE CLOSED AREA. REPEAT AND/OR FLIP THE CLOSURE AS NEEDED TO COMPLETE THE REPAIRS.
- STEP 4 - USING RSD 1101.02, SHEET 3 OF 19 AS NEEDED, CLOSE ONE TRAVEL LANE ON I-26 WB IN ADVANCE OF BRIDGE 100314 TO COMPLETE REPAIRS WITHIN THE CLOSED AREA. REPEAT AND/OR FLIP THE CLOSURE AS NEEDED TO COMPLETE THE REPAIRS.
- STEP 5 - USING RSD 1101.02, SHEET 3 OF 19 AS NEEDED, CLOSE THE OUTSIDE TRAVEL LANE ON NORTHBOUND OLD BURNSVILLE HILL ROAD UNDER BRIDGES 100314 AND 100316 AND AWAY FROM TRAFFIC AND BEHIND GUARDRAIL ALONG I-26, COMPLETE THE DRAINAGE WORK IN THE MEDIAN OF I-26 AND THE REPAIRS AND DRAINAGE UNDER THE BRIDGES AND ALONG THE EAST SIDE OF OLD BURNSVILLE HILL ROAD.
- STEP 6 - USING RSD 1101.02, SHEET 3 OF 19 AS NEEDED, CLOSE THE OUTSIDE TRAVEL LANE ON SOUTHBOUND OLD BURNSVILLE HILL ROAD UNDER BRIDGES 100314 AND 100316, COMPLETE THE REPAIRS UNDER THE BRIDGES AND ALONG THE WEST SIDE OF OLD BURNSVILLE HILL ROAD.
- STEP 7 - REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES AND MARKINGS AND OPEN ALL LANES TO TRAFFIC.

GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER. THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

- A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:
- ROAD NAME DAY AND TIME RESTRICTIONS
I-26 6:00 A.M. TO 7:00 P.M. MONDAY THRU SUNDAY
- B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME
I-26



VHB Engineering NC, P.C. (C-3705)
940 Main Campus Drive, Suite 500
Raleigh, NC 27606

DRAWN BY : J. TOMSENDDATE : 8/2026
CHECKED BY : C.S. PATELDATE : 8/2026
DESIGN ENGINEER OF RECORD: J. TOMSENDDATE : 8/2026

HOLIDAY

1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 7:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE DAY AFTER INDEPENDENCE DAY.
IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 7:00 P.M. MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.
9. FOR LEAF SEASON, BETWEEN THE HOURS OF 6:00 A.M. AND 7:00 P.M. EACH DAY FOR THE FIRST THREE WEEKS IN OCTOBER.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- A) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- B) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- C) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 5 FT OF AN OPEN TRAVEL LANE ON AN UNDIVIDED FACILITY, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 10 FT OF AN OPEN TRAVEL LANE ON A DIVICED FACILITY, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- E) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.
- F) USE SEQUENTIAL FLASHING WARNING LIGHTS ON DRUMS USED FOR THE MERGING TAPERS OF NIGHTTIME LANE CLOSURES IN ACCORDANCE WITH SECTION 1140 IN THE STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
- G) NOTIFY THE NCDOT STATEWIDE TRANSPORTATION OPERATIONS CENTER (STOC) AT 877-627-7862 APPROXIMATELY 30 MINUTES PRIOR TO INSTALLING AND WITHIN 15 MINUTES AFTER REMOVING LANE CLOSURES ON INTERSTATES, FREEWAYS, CONTROLLED ACCESS FACILITIES, AND US ROUTES.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- H) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:
- BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.
- BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.
- BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.
- I) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

- J) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

Pay Item No.	Sec No.	Description	Quantity	Unit
4402000000-E	SP	HIGH VISIBILITY STATIONARY SIGNS	128	SF
4407000000-E	SP	HIGH VISIBILITY PORTABLE SIGNS	148	SF
4415000000-N	1115	FLASHING ARROW BOARD	1	EA
4420000000-N	1120	PORTABLE CHANGEABLE MESSAGE SIGN	1	EA
4424000000-N	SP	WORK ZONE PRESENCE LIGHTING	14	EA
4432000000-N	SP	HIGH VISIBILITY DRUMS	40	EA
4434000000-N	1140	SEQUENTIAL FLASHING WARNING LIGHTS	20	EA
4465000000-N	1160	TEMPORARY CRASH CUSHIONS	1	EA
4470000000-N	1160	REMOVE & RESET TEMPORARY CRASH CUSHION	3	EA
4480000000-N	1165	TMA	1	EA
4485000000-E	1170	PORTABLE CONCRETE BARRIER	465	LF
4500000000-E	1170	REMOVE AND RESET PORTABLE CONCRETE BARRIER	1,395	LF
4600000000-N	SP	GENERIC TRAFFIC CONTROL ITEM - CONNECTED LANE CLOSURE SYSTEM	1	EA

SIGNING

- K) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- L) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC BARRIER

- M) INSTALL TEMPORARY BARRIER ACCORDING TO THE TRANSPORTATION MANAGEMENT PLANS A MAXIMUM OF TWO (2) WEEKS PRIOR TO BEGINNING WORK IN ANY LOCATION. ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION PROCEED IN A CONTINUOUS MANNER TO COMPLETE THE PROPOSED WORK IN THAT LOCATION UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE.

ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION AND NO WORK IS PERFORMED BEHIND THE TEMPORARY BARRIER FOR A PERIOD LONGER THAN TWO (2) MONTHS, REMOVE / RESET TEMPORARY BARRIER AT NO COST TO THE DEPARTMENT UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS, TEMPORARY BARRIER IS PROTECTING A HAZARD, OR AS DIRECTED BY THE ENGINEER.

INSTALL TEMPORARY BARRIER WITH THE TRAFFIC FLOW BEGINNING WITH THE UPSTREAM SIDE OF TRAFFIC. REMOVE TEMPORARY BARRIER AGAINST THE TRAFFIC FLOW BEGINNING WITH THE DOWNSTREAM SIDE OF TRAFFIC.

INSTALL AND SPACE DRUMS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH) TO CLOSE OR KEEP THE SECTION OF THE ROADWAY CLOSED UNTIL THE TEMPORARY BARRIER CAN BE PLACED OR AFTER THE TEMPORARY BARRIER IS REMOVED.

- N) PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER AT ALL TIMES DURING THE INSTALLATION AND REMOVAL OF THE BARRIER BY EITHER A TRUCK MOUNTED ATTENUATOR (MAXIMUM 72 HOURS) OR A TEMPORARY CRASH CUSHION.

PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER FROM ONCOMING TRAFFIC AT ALL TIMES BY A TEMPORARY CRASH CUSHION UNLESS THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER IS OFFSET FROM ONCOMING TRAFFIC AS FOLLOWS OR AS SHOWN IN THE PLANS: (SEE ALSO 1101.05)

POSTED SPEED LIMIT	MINIMUM OFFSET
40 OR LESS	15 FT
45 – 50	20 FT
55	25 FT
60 MPH or HIGHER	30 FT

TRAFFIC CONTROL DEVICES

- O) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.
- P) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

PAVEMENT MARKINGS AND MARKERS

- Q) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
I-26	TEMPORARY TAPE	NONE

- R) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- S) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

PROJECT NO. 82000.03

BUNCOMBE COUNTY

STATION: _____



DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH REPAIRS FOR BRIDGES ON US I-26 OVER SR 1674 (OLD BURNSVILLE HILL RD) 100314 AND 100316					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
SHEET NO.					TC-1
TOTAL SHEETS					21