

#### NOTES

APPROX. AREA: UNDERSIDE DECK REPAIR

FOR OVERLAY OF BRIDGE WITH LATEX MODIFIED CONCRETE VERY EARLY STRENGTH, SEE SPECIAL PROVISIONS.

SEE SPECIAL PROVISIONS FOR SURFACE PREPARATION.

FOR HYDRO-DEMOLITION, SEE SPECIAL PROVISIONS.

FOR UNDER DECK CONTAINMENT SEE SPECIAL PROVISIONS.

THE CONTRACTOR MUST COLLECT, TREAT AND DISPOSE OF RUN-OFF WATER FROM THE HYDRO-DEMOLITION PROCESS, SEE SPECIAL PROVISIONS.

THE BOUNDARIES OF AREAS IDENTIFIED FOR CLASS III SURFACE PREPARATION ARE APPOXIMATE.

FOR EVAZOTE JOINT SEALS, SEE SPECIAL PROVISIONS.

FOR SHOTCRETE. SEE SPECIAL PROVISIONS.

EXISTING JOINTS AND DECK DRAINS SHALL BE SEALED PRIOR TO BEGINNING REPAIR OF BRIDGE DECKS WITH LATEX MODIFIED CONCRETE, SEE SPECIAL PROVISIONS.

# ANTICIPATED CLASS III SURFACE DECK-PREP. OR "BLOW THRU" AREA SEAL EDGES **FORM** ×-----

# -BRACING

#### ASPHALT FINISHED DECK OVERLAY SURFACE $1\frac{1}{2}$ " MIN. OVERLAY ORIGINAL DECK DECK SURFACE AFTER SURFACE HYDRO-DEMO AND BEFORE OVERLAY IS PLACED.

PROPOSED

#### DETAIL FOR LATEX MODIFIED CONCRETE OVERLAY

EXISTING

#### TYP. "BLOW THRU" CONTAINMENT AND FORMWORK

A METHOD TO CAPTURE WATER AND DEBRIS FROM BLOW THRU DURING HYDRO-DEMOLITION SHALL BE INSTALLED IN AREAS INDICATED AS CLASS III SURFACE PREPARATION.

SUBMIT DETAILS OF PROPOSED FORM WORK FOR APPROVAL PRIOR TO BEGINNING WORK.

COST FOR INSTALLING AND REMOVING FORM WORK SHALL BE INCIDENTAL TO THE PRICE PER SQ. YARD OF HYDRO-DEMOLITION.

	TOTAL BILL OF MATERIAL										
** SCARIFYING BRIDGE DECK	* CLASS I SURFACE PREPARATION	* CLASS II SURFACE PREPARATION	* CLASS III SURFACE PREPARATION	HYDRO- DEMOLITION OF BRIDGE DECK	LATEX MODIFIED CONCRETE OVERLAY VERY EARLY STRENGTH	PLACING & FINISHING LATEX MODIFIED CONCRETE OVERLAY- VERY EARLY STRENGTH	SHOTCRETE REPAIRS	GROOVING BRIDGE FLOORS	ASPHALT CONCRETE SURFACE COURSE TYPE SF 9.5A	REINFORCING STEEL	EVAZOTE JOINT SEALS
SQ.YDS.	SO.YDS.	SQ.YDS.	SQ.YDS.	SQ.YDS.	C.Y.	SQ.YDS.	CU.FT.	SQ.FT.	TONS	LBS	LUMP SUM
2763	0	0	0	2151	89	2151	82	18034	51	100	LUMP SUM

\* QUANTITY SHOWN IS FOR INFORMATION ONLY. \*\* INCLUDES APPROACH MILLING.

DRAWN BY: CLB DATE: 09/11 CHECKED BY: DCM DATE: 09/11 SHEET 1 OF 6 STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

BURKE

PROJECT NO. 17BP.13.P.3

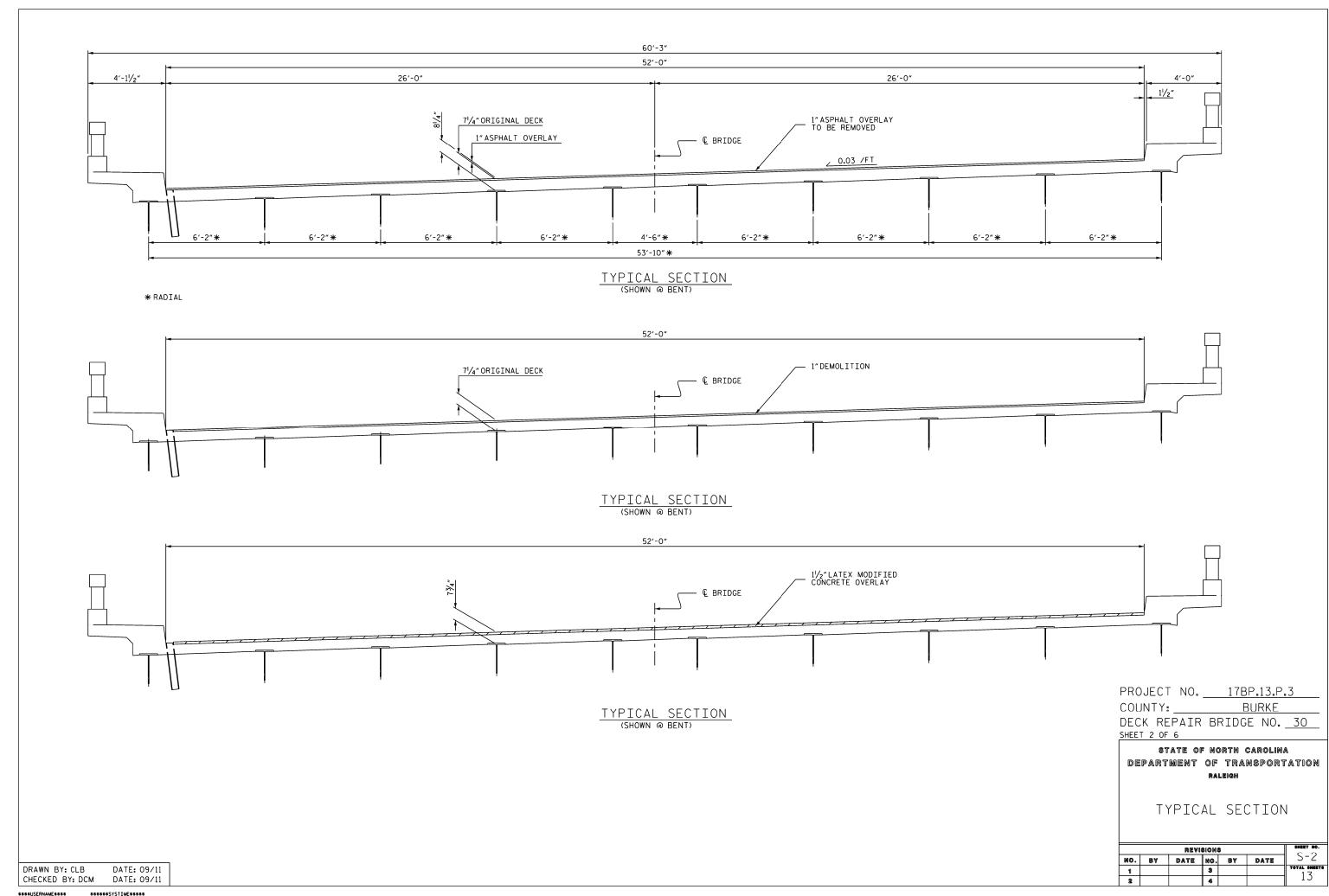
DECK REPAIR BRIDGE NO. 30

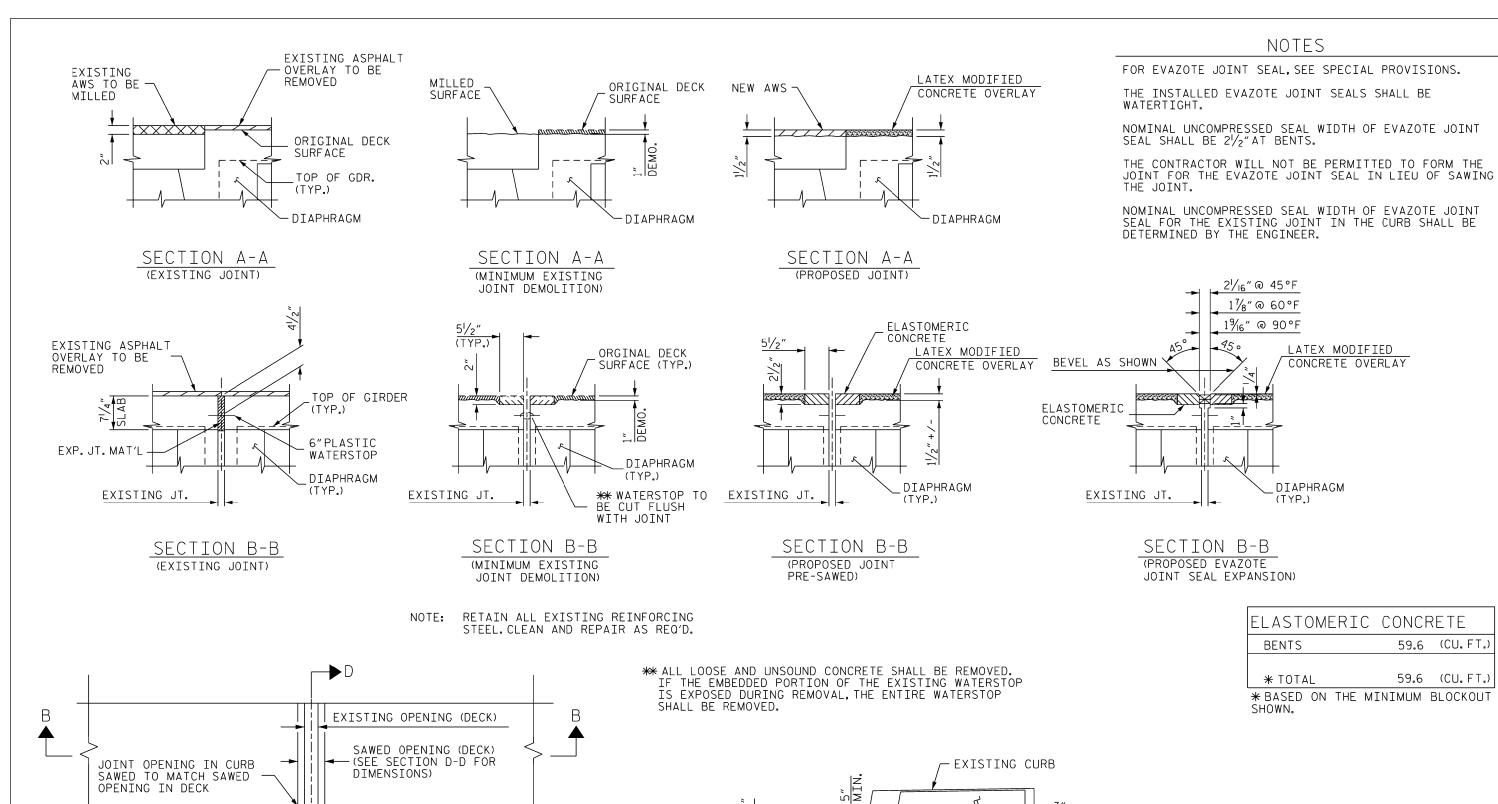
COUNTY: \_\_

PLAN VIEW OF BRIDGE #30. ON NC 181 OVER THE CATAWBA RIVER

52' CL. ROADWAY

	C 1	l					
NO.	BY	DATE	NO.	BY	DATE	5-1	
1			3			TOTAL SHEETS	
2			48			1.5	





PROJECT NO. <u>17BP.13.P.3</u> COUNTY: BURKE DECK REPAIR BRIDGE NO. 30 SHEET 3 OF 6

EVAZOTE SEAL

(SEE NOTE)

RADIUS OF

SAW BLADE

-BOTTOM OF SEAL

EXISTING

SECTION D-D

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

JOINT DETAILS

		SHEET NO.				
٥.	BY	DATE	NO.	BY	DATE	5-3
1			3			TOTAL SHEETS
2			4			13

DRAWN BY: CLB

CHECKED BY: DCM

OPENING IN DECK

PROVIDE WATERTIGHT

EVAZOTE JOINT SEAL

AS RECOMMENDED BY

SEAL AT END OF

MANUFACTURER

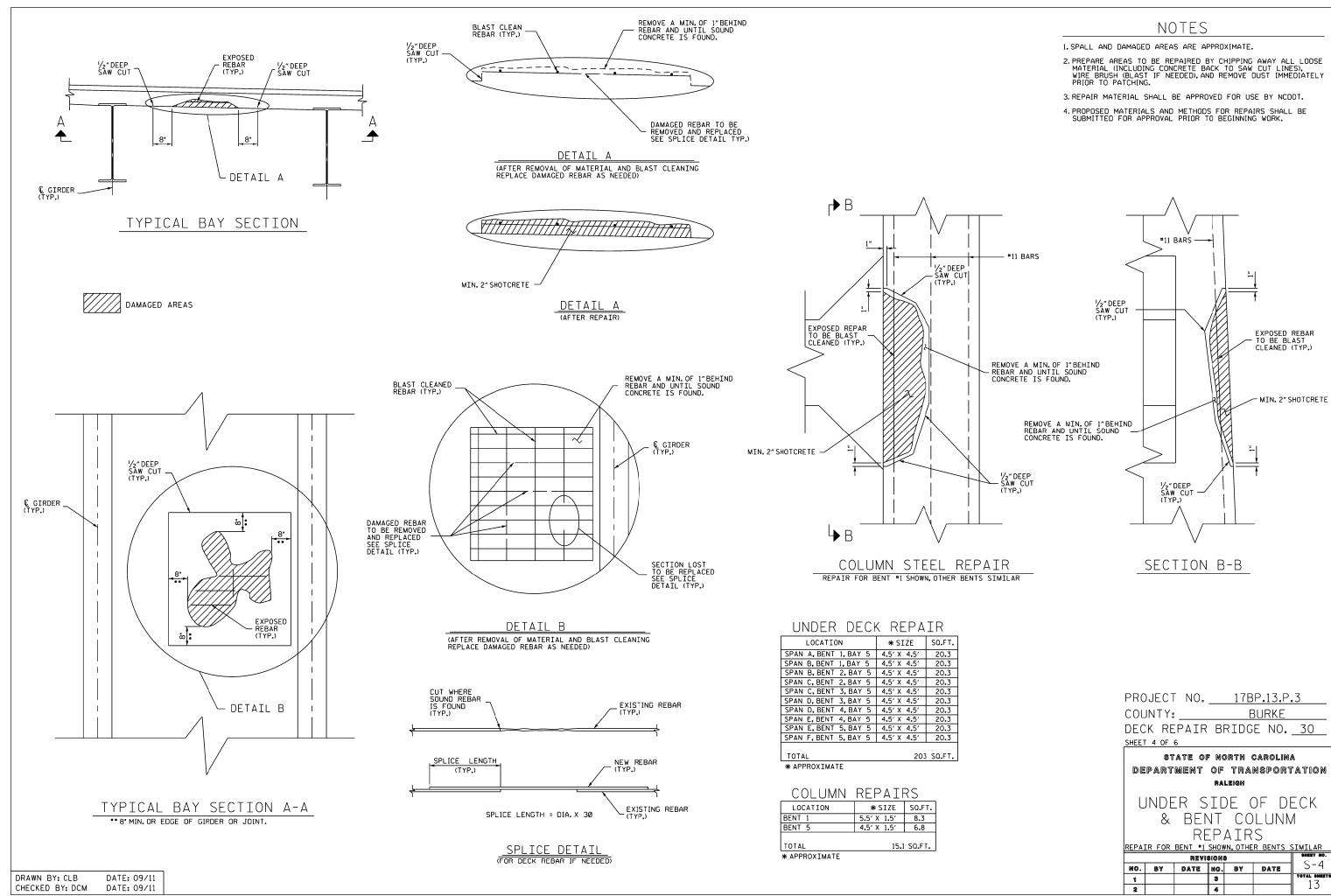
DATE: 09/11

DATE: 09/11

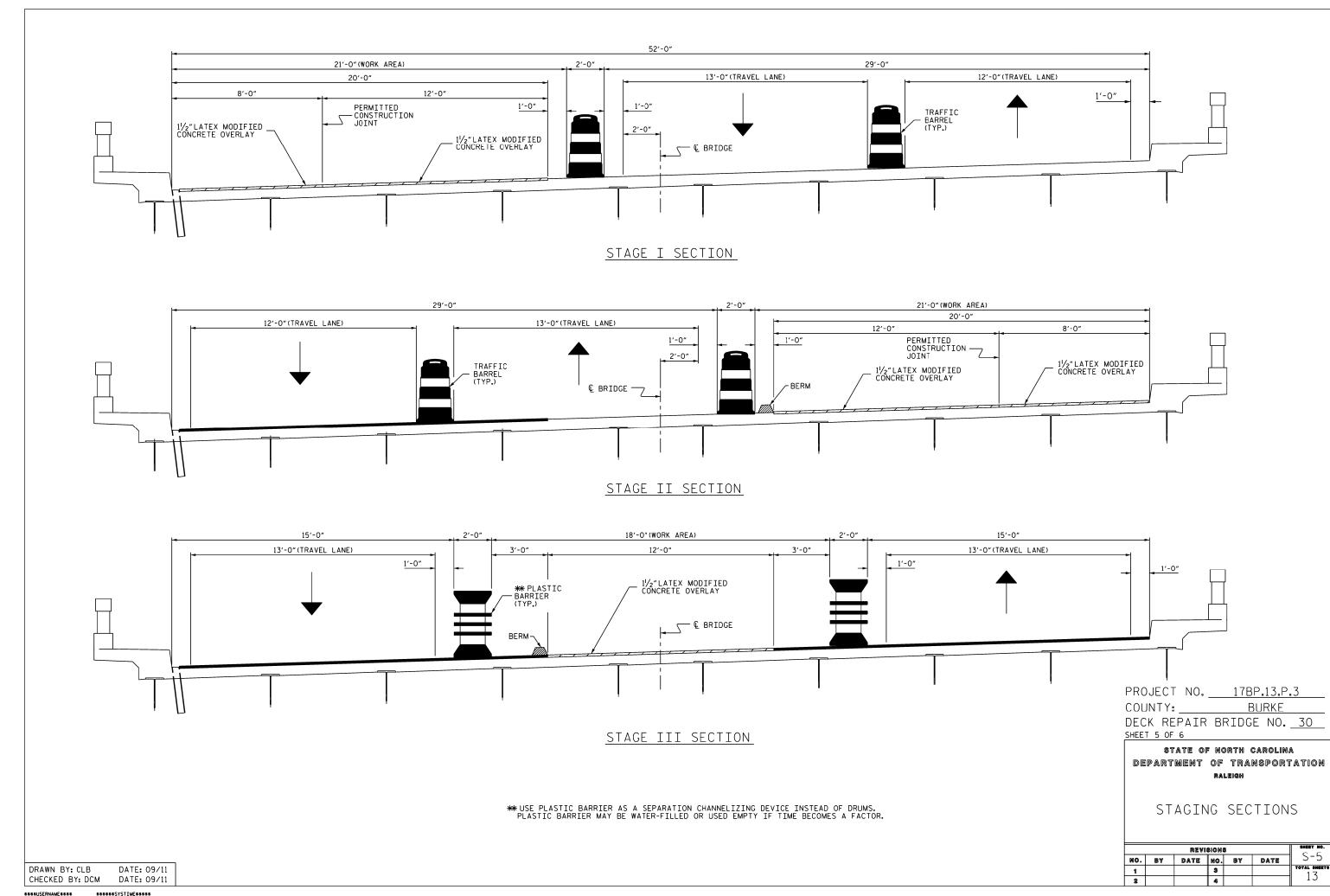
2½6″@45° F; 1½″@60° F; 1½″@90° F

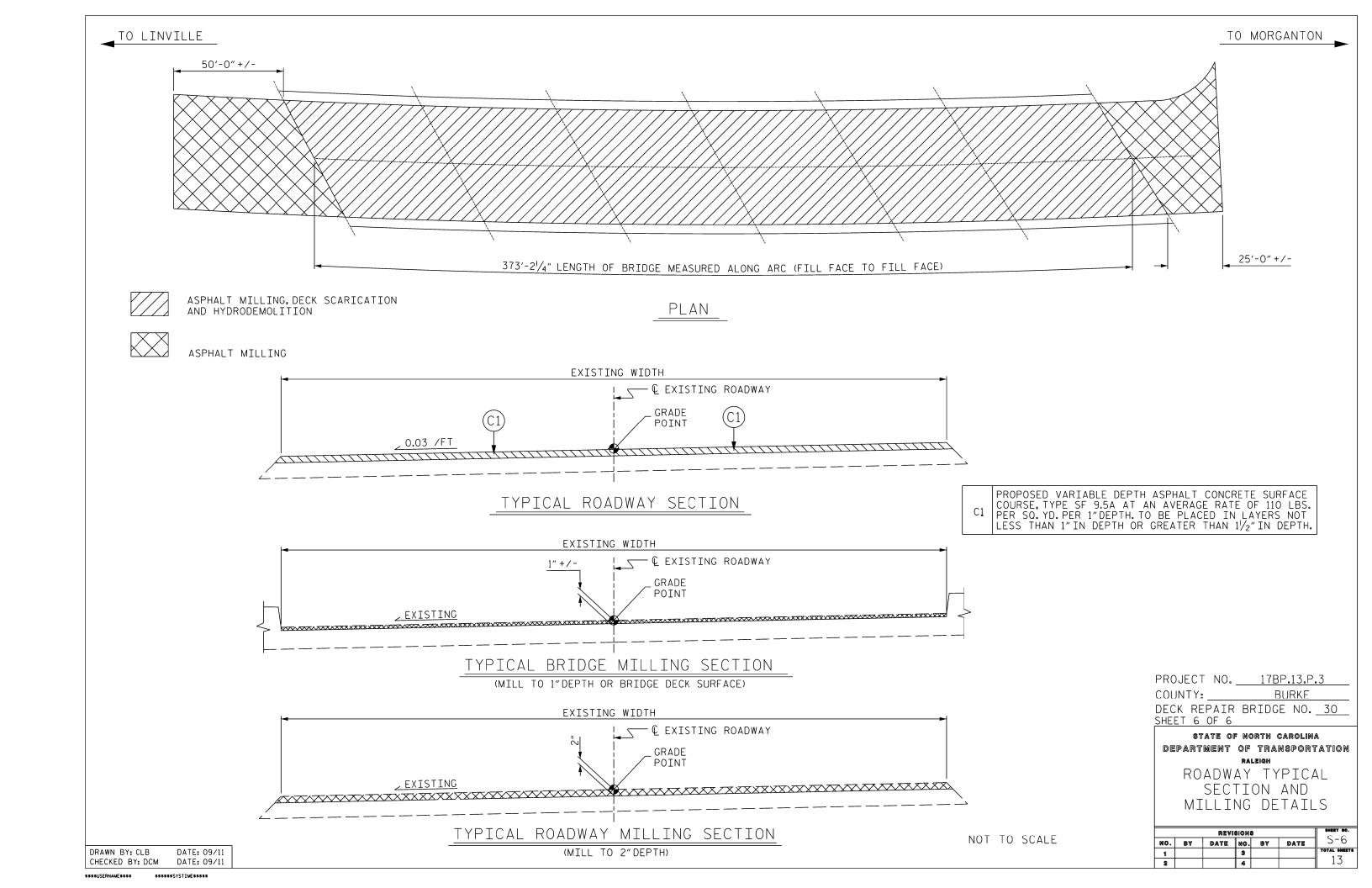
€ JOINT @ BENT

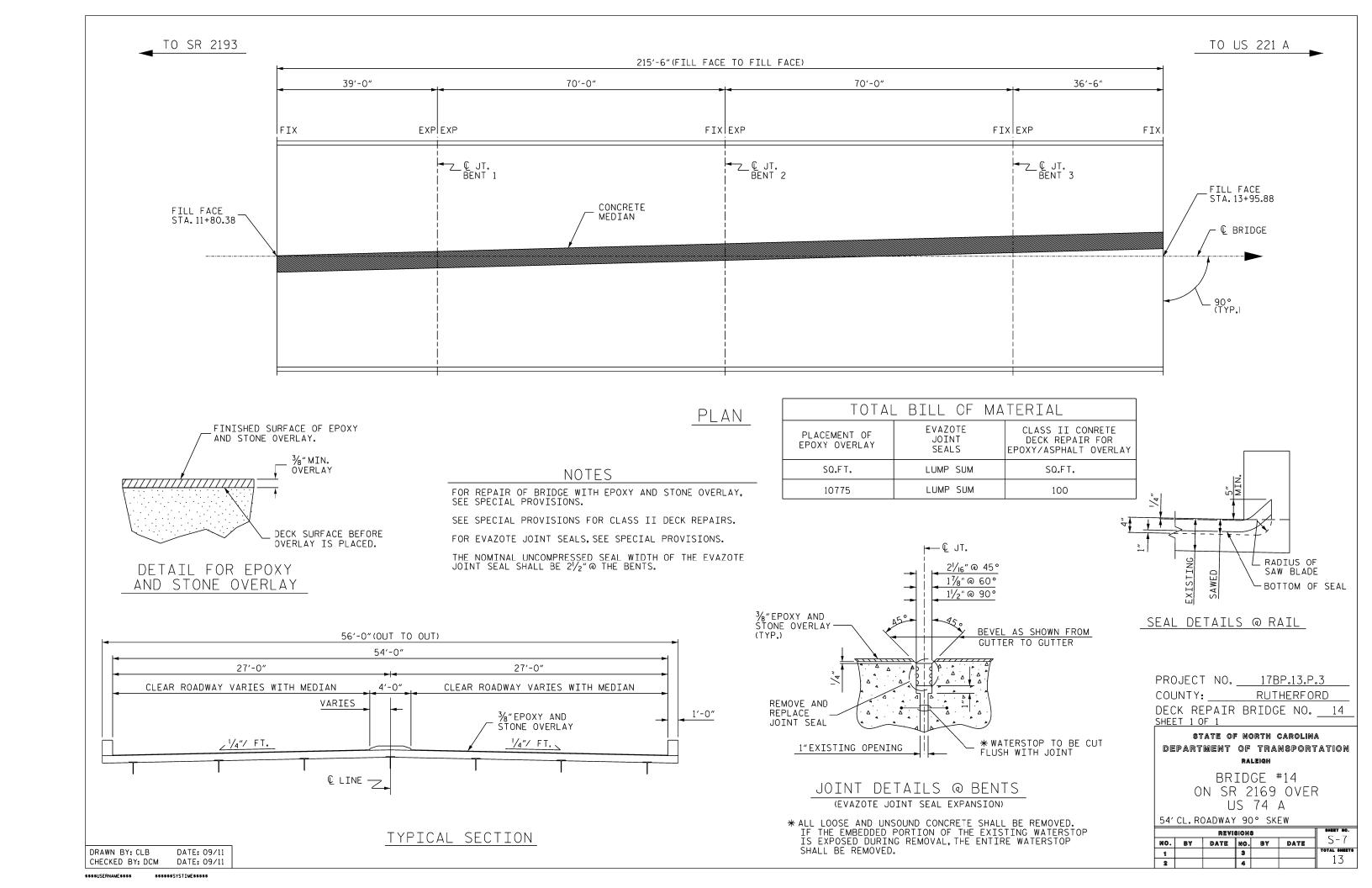
PLAN

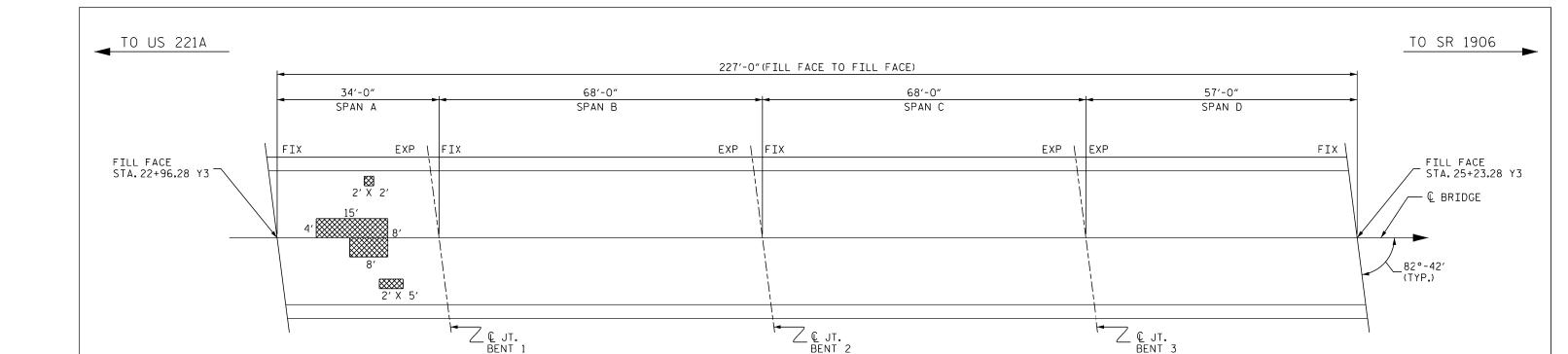


\$\$\$\$USERNAME\$\$\$\$ \$\$\$\$\$\$\$YSTIME\$\$









#### PLAN

APPROX. AREA: CLASS I REPAIR

APPROX. AREA: CLASS II REPAIR

#### NOTES

FOR OVERLAY OF BRIDGE WITH LATEX MODIFIED CONCRETE VERY EARLY STRENGTH, SEE SPECIAL PROVISIONS.

SEE SPECIAL PROVISIONS FOR SURFACE PREPARATION. FOR HYDRO-DEMOLITION, SEE SPECIAL PROVISIONS .

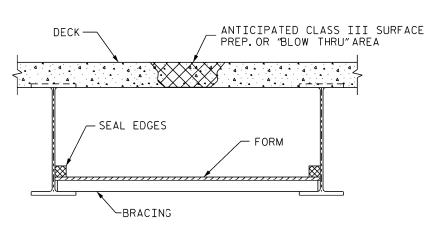
FOR UNDER DECK CONTAINMENT SEE SPECIAL PROVISIONS.

THE CONTRACTOR MUST COLLECT, TREAT AND DISPOSE OF RUN-OFF WATER FROM THE HYDRO-DEMOLITION PROCESS, SEE SPECIAL PROVISIONS.

THE BOUNDARIES OF AREAS IDENTIFIED FOR CLASS III SURFACE PREPARATION ARE APPOXIMATE.

FOR EVAZOTE JOINT SEALS, SEE SPECIAL PROVISIONS.

EXISTING JOINTS AND DECK DRAINS SHALL BE SEALED PRIOR TO BEGINNING REPAIR OF BRIDGE DECKS WITH LATEX MODIFIED CONCRETE, SEE SPECIAL PROVISIONS.

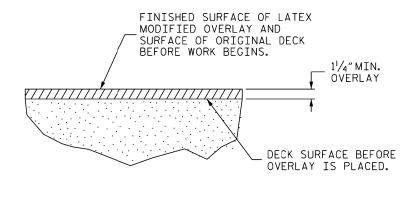


#### TYP, "BLOW THRU" CONTAINMENT AND FORMWORK

A METHOD TO CAPTURE WATER AND DEBRIS FROM BLOW THRU DURING HYDRO-DEMOLITION SHALL BE INSTALLED IN AREAS INDICATED AS CLASS III SURFACE PREPARATION.

SUBMIT DETAILS OF PROPOSED FORM WORK FOR APPROVAL PRIOR TO BEGINNING WORK.

COST FOR INSTALLING AND REMOVING FORM WORK SHALL BE INCIDENTAL TO THE PRICE PER SQ. YARD OF HYDRO-DEMOLITION.



DETAIL FOR LATEX MODIFIED CONCRETE OVERLAY

TOTAL BILL OF MATERIAL HYDRO-DEMOLITION PLACING & FINISHING LATEX MODIFIED LATEX MODIFIED ASPHALT EVAZOTE \* CLASS I \* CLASS II \* CLASS III CONCRETE OVERLAY-GROOVING CONCRETE \*\* SCARIFYING JOINT SURFACE SURFACE SURFACE OF BRIDGE CONCRETE OVERLAY-BRIDGE SURFACE COURSE VERY EARLY BRIDGE DECK SEALS PREPARATION PREPARATION PREPARATION DECK VERY EARLY STRENGTH **FLOORS** TYPE SF 9.5A STRENGTH SQ.YDS. SQ.YDS. SQ.YDS. SQ.YDS. SQ.YDS. C.Y. SQ.YDS. LUMP SUM SQ.FT. TONS 830 18 29 706 LUMP SUM 5606 13

DRAWN BY: CLB CHECKED BY: DCM DATE: 09/11 \* QUANTITY SHOWN IS FOR INFORMATION ONLY. \*\* INCLUDES APPROACH MILLING.

PROJECT NO. 17BP.13.P.3 COUNTY: RUTHERFORD DECK REPAIR BRIDGE NO. 81

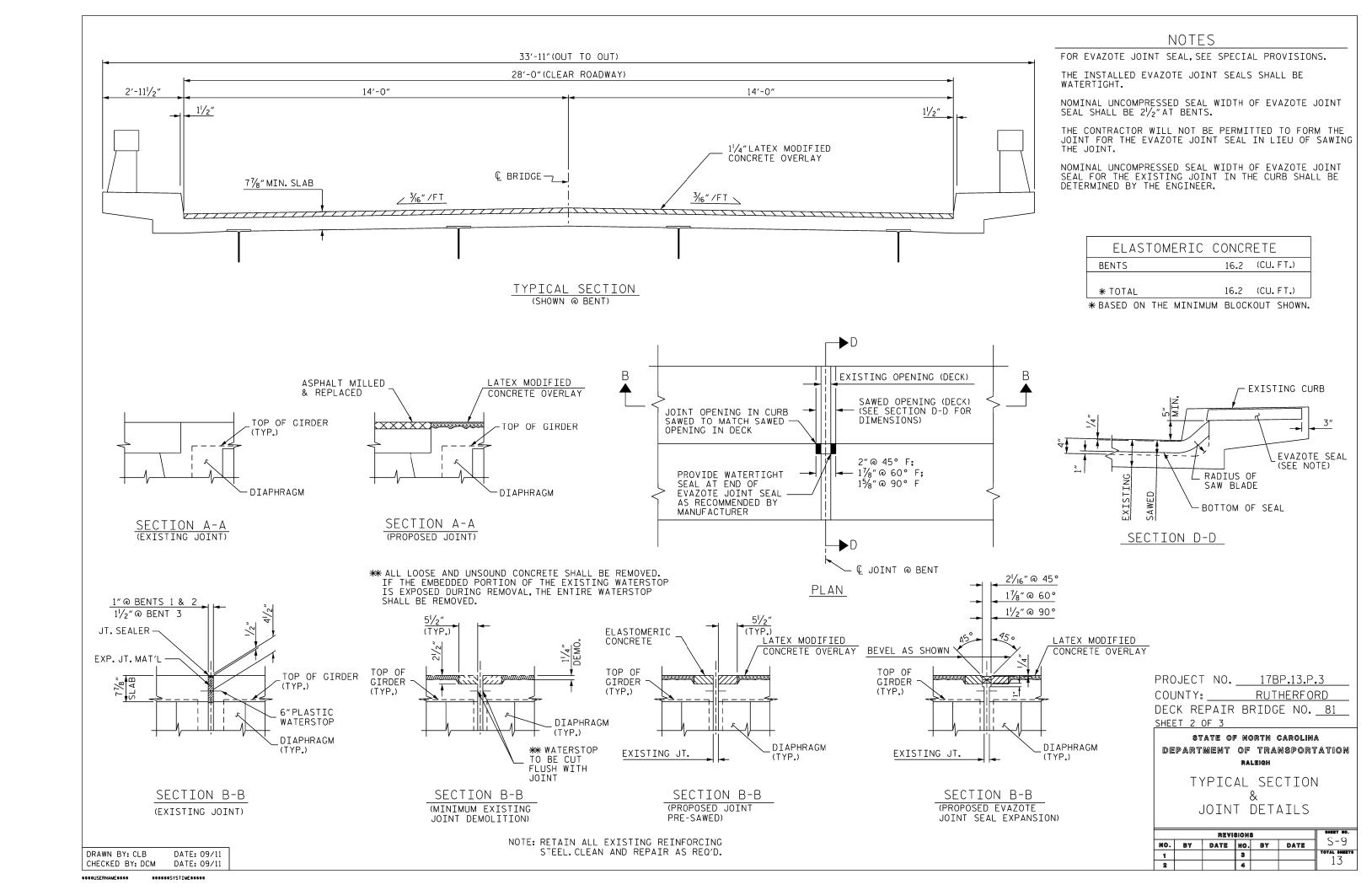
SHEET 1 OF 3

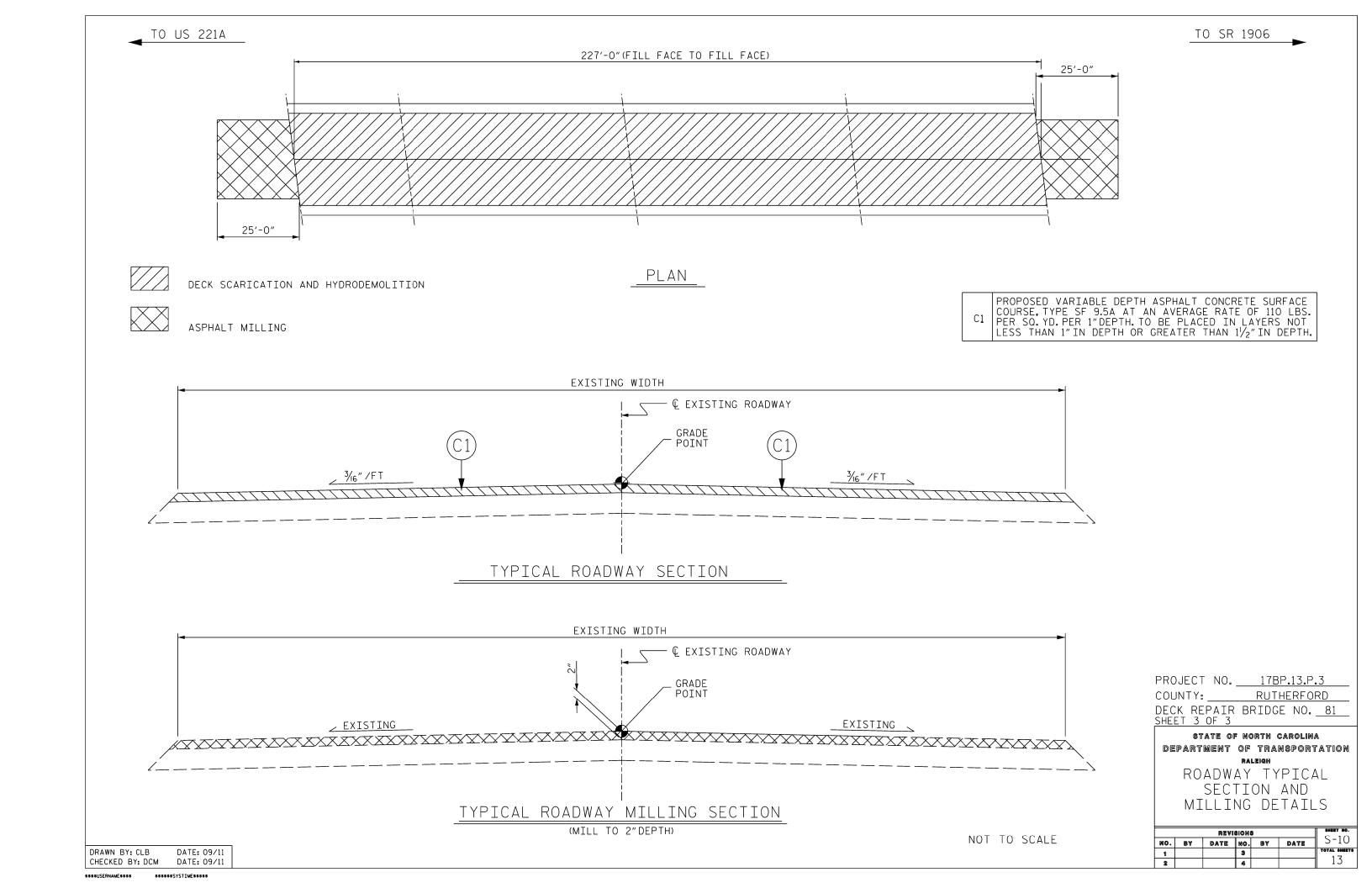
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

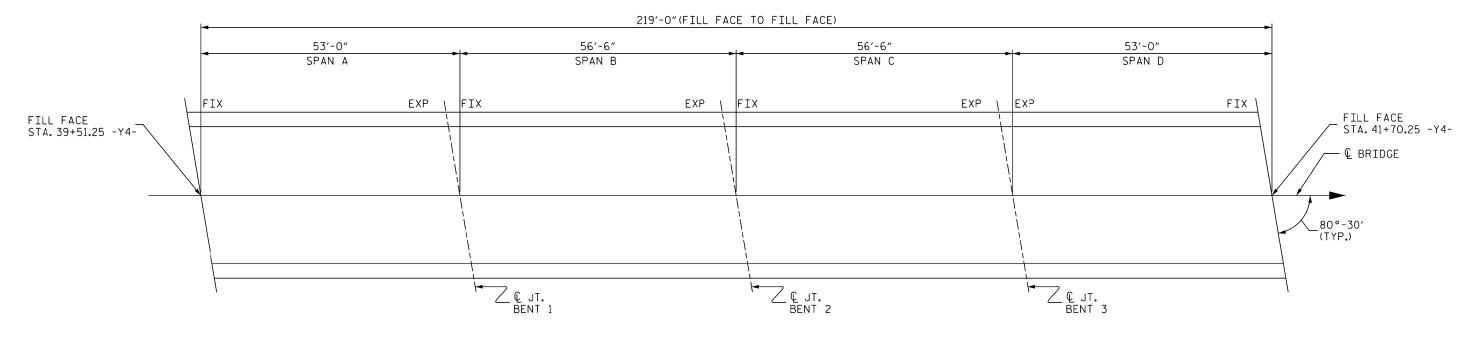
PLAN VIEW OF BRIDGE #81, ON SR 1901 OVER US 74 BYP

28'CL.ROADWAY 82°-42'SKEW

REVISIONS S-8 BY DATE NO. BY DATE 13







PLAN



APPROX. AREA: CLASS I REPAIR

APPROX. AREA: CLASS II REPAIR

#### NOTES

FOR OVERLAY OF BRIDGE WITH LATEX MODIFIED CONCRETE VERY EARLY STRENGTH, SEE SPECIAL PROVISIONS.

SEE SPECIAL PROVISIONS FOR SURFACE PREPARATION. FOR HYDRO-DEMOLITION, SEE SPECIAL PROVISIONS .

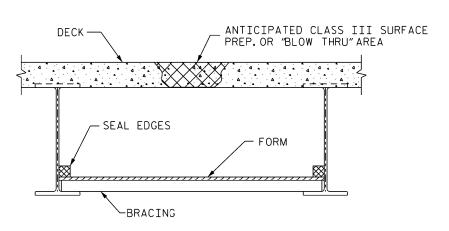
FOR UNDER DECK CONTAINMENT SEE SPECIAL PROVISIONS.

THE CONTRACTOR MUST COLLECT, TREAT AND DISPOSE OF RUN-OFF WATER FROM THE HYDRO-DEMOLITION PROCESS, SEE SPECIAL PROVISIONS.

THE BOUNDARIES OF AREAS IDENTIFIED FOR CLASS III SURFACE PREPARATION ARE APPOXIMATE.

FOR EVAZOTE JOINT SEALS, SEE SPECIAL PROVISIONS.

EXISTING JOINTS AND DECK DRAINS SHALL BE SEALED PRIOR TO BEGINNING REPAIR OF BRIDGE DECKS WITH LATEX MODIFIED CONCRETE, SEE SPECIAL PROVISIONS.

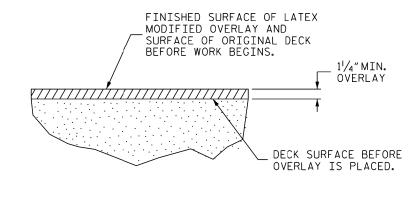


#### TYP, "BLOW THRU" CONTAINMENT AND FORMWORK

A METHOD TO CAPTURE WATER AND DEBRIS FROM BLOW THRU DURING HYDRO-DEMOLITION SHALL BE INSTALLED IN AREAS INDICATED AS CLASS III SURFACE PREPARATION.

SUBMIT DETAILS OF PROPOSED FORM WORK FOR APPROVAL PRIOR TO BEGINNING WORK.

COST FOR INSTALLING AND REMOVING FORM WORK SHALL BE INCIDENTAL TO THE PRICE PER SQ. YARD OF HYDRO-DEMOLITION.



DETAIL FOR LATEX MODIFIED CONCRETE OVERLAY

TOTAL BILL OF MATERIAL									
** SCARIFYING BRIDGE DECK	* CLASS I SURFACE PREPARATION	* CLASS II SURFACE PREPARATION	* CLASS III SURFACE PREPARATION	HYDRO- DEMOLITION OF BRIDGE DECK	LATEX MODIFIED CONCRETE OVERLAY- VERY EARLY STRENGTH	PLACING & FINISHING LATEX MODIFIED CONCRETE OVERLAY- VERY EARLY STRENGTH	EVAZOTE JOINT SEALS	GROOVING BRIDGE FLOORS	ASPHALT CONCRETE SURFACE COURSE TYPE SF 9.5A
SQ.YDS.	SQ.YDS.	SQ.YDS.	SO.YDS.	SQ.YDS.	C.Y.	SQ.YDS.	LUMP SUM	SQ.FT.	TONS
805	0	0	0	681	28	681	LUMP SUM	5406	13

\* QUANTITY SHOWN IS FOR INFORMATION ONLY. \*\* INCLUDES APPROACH MILLING.

PROJECT NO. 17BP.13.P.3 COUNTY: \_ RUTHERFORD DECK REPAIR BRIDGE NO. 119 SHEET 1 OF 3

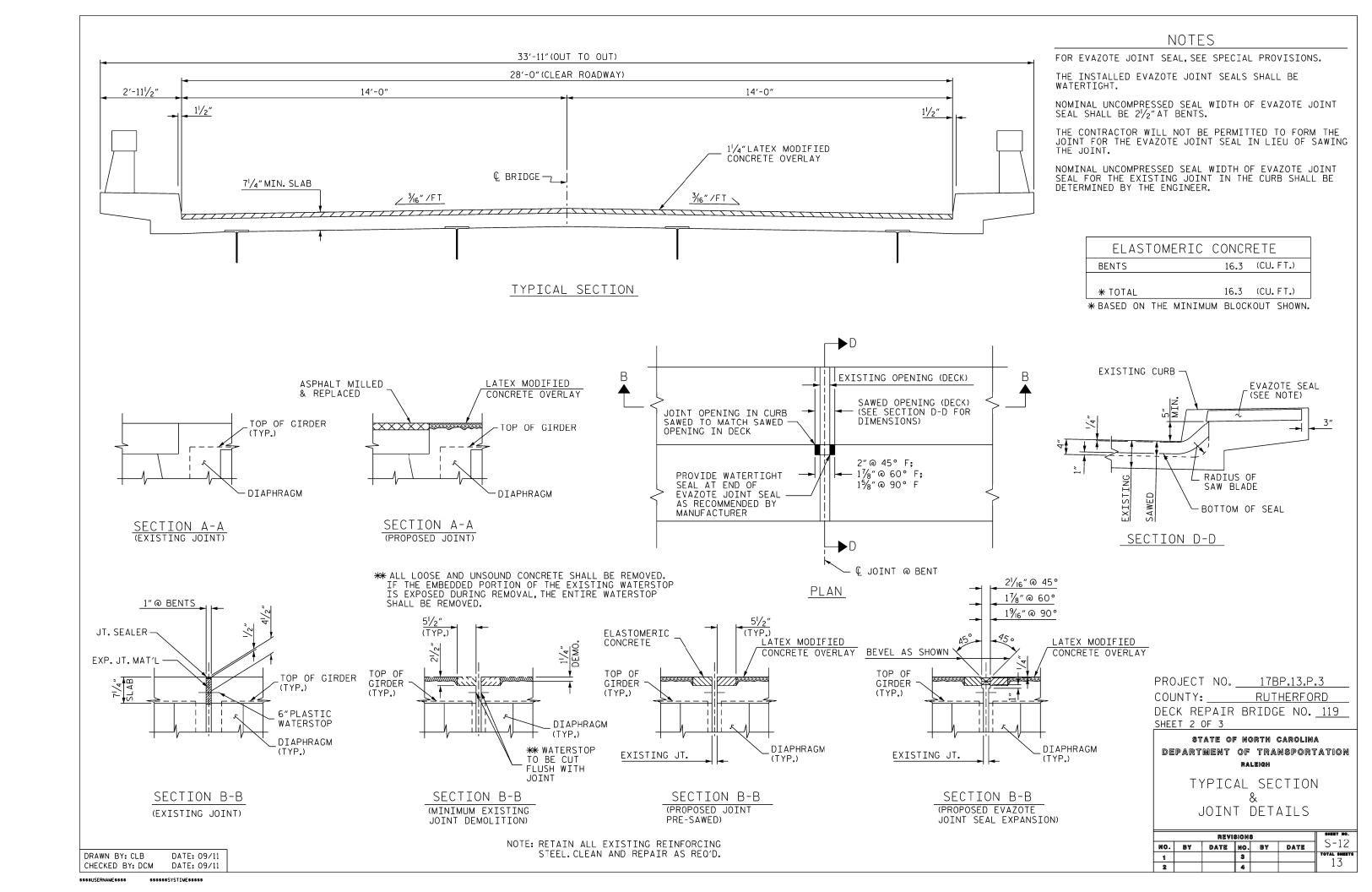
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

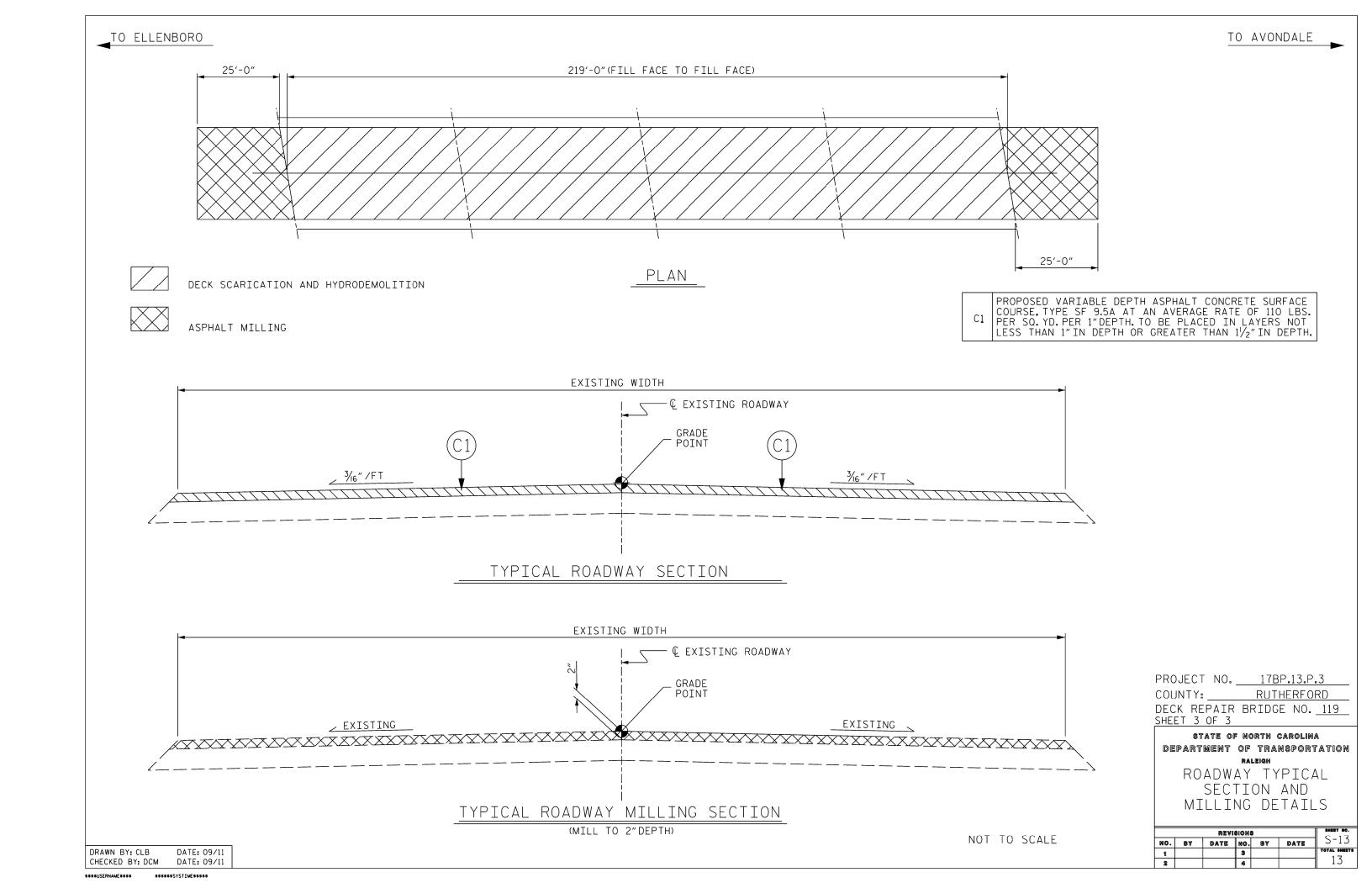
PLAN VIEW OF BRIDGE #119, ON SR 1920 OVER US 74 BYP

28'CL.ROADWAY 80°-30'SKEW

		C 11					
NO.	BY	DATE	NO.	BY	DATE	2-11	
1			3			TOTAL SHEETS	
2			4			13	

DRAWN BY: CLB DATE: 09/11 CHECKED BY: DCM DATE: 09/11





# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

### TRANSPORTATION MANAGEMENT PLAN

## RUTHERFORD & BURKE COUNTIES

#### **DIVISION** 13



BURKE BRIDGE #30 - NC 181 OVER CATAWBA RIVER

RUTHERFORD BRIDGE #14 - SR 2169 OVER US 74-A RUTHERFORD BRIDGE #81 - SR 1901 OVER US 74 BYPASS RUTHERFORD BRIDGE #119 - SR 1920 OVER US 74 BYPASS

#### INDEX OF SHEETS

SHEET NO.

TITLE

TMP-1 TITLE SHEET, AND INDEX OF SHEETS

TMP-1A LIST OF ROADWAY STANDARD DRAWINGS AND LEGEND

TMP-2 GENERAL NOTES

TMP-3 VICINITY MAPS & TRAFFIC CONTROL PHASING

TMP-4,4A BURKE CO. BRIDGE #30-NC 181 NB STAGE I-WORK AREA

TMP-5,5A BURKE CO. BRIDGE #30-NC 181 SB STAGE II-WORK AREA

TMP-6,6A BURKE CO. BRIDGE #30-NC 181 NB/SB STAGE III-WORK AREA

#### TRAFFIC MANAGEMENT STRATEGY

PROPOSED BRIDGE WORK WILL BE PERFORMED USING TIME RESTRICTED LANE CLOSURES. FOR THE BRIDGES IN RUTHERFORD COUNTY FLAGGER CONTROLLED LANE CLOSURES ARE SPECIFIED. FOR THE BRIDGE IN BURKE COUNTY THE WORK IS CONSTRUCTED IN THREE STAGES, USING LANE CLOSURES AND PLACING TRAFFIC IN A TWO-LANE, TWO-WAY PATTERN ON EACH SIDE OF THE BRIDGE. REFER TO SHEET TMP-3 FOR TRAFFIC CONTROL PHASING.



PLAN PREPARED FOR NCDOT BRIDGE MANAGEMENT UNIT
RALEIGH, NC





PLAN PREPARED BY:

Stantec Consulting Services Inc.

Tel. 919.851.6866 Fax. 919.851.7024

BETSY L. WATSON, P.E.

TRAFFIC ENGINEER

GEORGE KARAGEORGE

APPROVED BY SEAL SEAL 29449

SHEET NO

#### **LEGEND**

#### **GENERAL**

DIRECTION OF TRAFFIC FLOW

WORK AREA

NORTH ARROW

#### TRAFFIC CONTROL DEVICES

BARRICADE (TYPE III)

 SKINNY DRUM 
 ○ TUBULAR MARKER DRUM

TEMPORARY CRASH CUSHION

FLASHING ARROW PANEL (TYPE C)

FLAGGER

LAW ENFORCEMENT

TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)

CHANGEABLE MESSAGE SIGN (CMS)

LONGITUDINAL CHANNELIZING DEVICE(PLASTIC BARRIER)

#### TEMPORARY SIGNING

PORTABLE SIGN

- STATIONARY SIGN

STATIONARY OR PORTABLE SIGN

#### **SIGNALS**







#### PAVEMENT MARKINGS

EXISTING PAVEMENT MARKING (GRAY) — SKIP LINES

- - - - - MINI-SKIP LINES --- SOLID LINES

#### PAVEMENT MARKING SYMBOLS

PAVEMENT MARKING SYMBOLS

EXISTING PAVEMENT MARKING SYMBOLS (HOLLOW)

() PAVEMENT MARKING ALPHANUMERIC CHARACTERS

#### PAVEMENT MARKERS

CRYSTAL/CRYSTAL

CRYSTAL/RED

YELLOW/YELLOW

#### PROJ. REFERENCE NO. SHEET NO. 17BP.13.P.3 TMP-1A

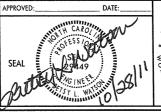
#### ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" -PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JULY 2006 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

IIILE
TEMPORARY LANE CLOSURES
TEMPORARY SHOULDER CLOSURES
TRAFFIC CONTROL DESIGN TABLES
STATIONARY WORK ZONE SIGNS
PORTABLE WORK ZONE SIGNS
FLASHING ARROW PANELS
DRUMS
CONES
FLAGGING DEVICES
TRUCK MOUNTED IMPACT ATTENUATOR
PAVEMENT MARKINGS - LINE TYPES & OFFSETS
PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
PAVEMENT MARKINGS - TURN LANES
PAVEMENT MARKINGS - SYMBOLS & WORD MESSAGES
PAVEMENT MARKER SPACING
SNOWPLOWABLE RAISED PAVEMENT MARKERS
GUARDRAIL & BARRIER DELINEATOR SPACING
GUARDRAIL & BARRIER DELINEATOR TYPES



801 Jones Franklin Road 801 Jones Franklin Road Suite 300 Raleigh, NC 27606 Tel. (919) 851-6866 Fax. (919) 851-7024





LEGEND ROADWAY STANDARD DRAWINGS

#### GENERAL NOTES

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

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.

#### LANE CLOSURE TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
NC 181	6:00 A.M7:00 P.M. MONDAY THRU FRIDAY
SR 2169	6:00 A.M9:00 A.M. MONDAY THRU FRIDAY
SR 1901	4:00 P.M7:00 P.M. MONDAY THRU FRIDAY
SR 1920	

#### HOLIDAY & HOLIDAY WEEKEND LANE CLOSURE TIME RESTRICTIONS

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND HOLIDAY WEEKENDS AS FOLLOWS:

#### ROAD NAME ALL ROADS

- 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. THESDAY.
- 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.

#### LANE AND SHOULDER CLOSURE REQUIREMENTS

- C) LANE CLOSURES ARE REQUIRED WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN ANY PORTION OF A TRAVEL LANE. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- D) INSTALL ALL LANE CLOSURES ACCORDING TO THE PLANS, ROADWAY STANDARD DRAWINGS (1101.02), OR AS DIRECTED BY THE ENGINEER.
- E) 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. COVER OR LAY DOWN SIGNS, AND TURN OFF ARROW PANEL AND MESSAGE BOARDS.
- F) INSTALL LANE CLOSURES WITH THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE UPSTREAM SIDE OF TRAFFIC. REMOVE LANE CLOSURES AGAINST THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF TRAFFIC.
- G) 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.
- H) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- I) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- J) UNLESS OTHERWISE SHOWN IN THE PLANS, PLACE ARROW PANELS ON THE ROADWAY SHOULDER. IF SHOULDERS DO NOT EXIST, PLACE ARROW PANELS WITHIN THE MERGE TAPER BEHIND THE CHANNELIZING DEVICES OF THE LANE CLOSURE. IF NEEDED, EXTEND LANE CLOSURES TO PROVIDE STOPPING SIGHT DISTANCE TO THE ARROW PANEL (REFER TO ROADWAY STANDARD DRAWING 1101.11 SHEET 2).
- K) PLACE LANE CLOSURE DRUMS IN TAPERS AT A MAXIMUM SPACING EQUAL IN FEET TO THE POSTED SPEED LIMIT (MPH). ALONG BUFFER SPACES AND WORK AREAS SPACE DRUMS AT A MAXIMUM SPACING EQUAL IN FEET TO TWICE THE POSTED SPEED LIMIT (MPH). IN ALL CASES, CHANNELIZING DEVICES ARE TO BE SPACED IN SUCH A MANNER AS TO POSITIVELY ACHIEVE THE INTENDED VISUAL CHANNELIZATION. CHANNELIZING DEVICES SHOULD BE LATERALLY OFFSET 3 FT INSIDE THE CLOSED LANE AS ROOM PERMITS.

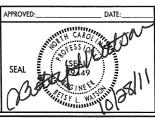
#### PAVEMENT MARKINGS AND MARKERS

L) UPON COMPLETION OF ALL OTHER CONSTRUCTION OPERATIONS INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

BRIDGE#/ROAD NAME	MARKING	PAVEMENT MARKER
BURKE 30/NC 181	POLYUREA	SNOWPLOWABLE
RUTHERFORD 14/SR 2169	PAINT	NONE
RUTHERFORD 81/SR 1901	PAINT	NONE
RUTHERFORD 119/SR 1920	PAINT	NONE

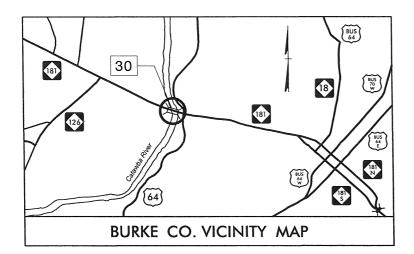
#### MISCELLANEOUS

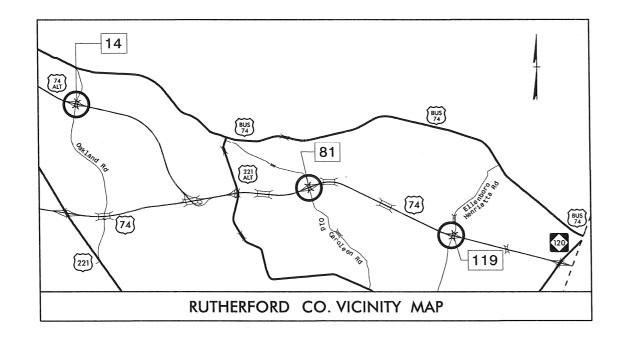
- M) ALL DIMENSIONS AND STATIONS IN THE TRAFFIC MANAGEMENT PLAN AND PHASING ARE APPROXIMATE (+/-); FIELD ADJUST AS NECESSARY OR AS DIRECTED BY THE ENGINEER.
- N) MAINTAIN DRIVEWAY ACCESS AT ALL TIMES, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- O) ENSURE THE OVERSIZE/OVERWEIGHT PERMIT UNIT (919) 733-4740 HAS BEEN ADVISED OF THE ONGOING TRAFFIC OPERATIONS THROUGH THE DIVISION OFFICE.
- P) WHERE DESIGNATED IN THE PLANS, PLASTIC BARRIER MAY BE USED AS A LONGITUDINAL CHANNELIZING DEVICE INSTEAD OF DRUMS AT THE OPTION OF THE ENGINEER (SEE SPECIAL PROVISION).





GENERAL NOTES





#### TRAFFIC CONTROL PHASING

BURKE CO. BRIDGE #30

PERFORM BRIDGE WORK IN STAGES USING LANE CLOSURES AS FOLLOWS:

STAGE I - NC 181 NB LANE WORK AREA REFER TO SHEETS TMP-4, 4A.

STAGE II - NC 181 SB LANE WORK AREA REFER TO SHEETS TMP-5, 5A.

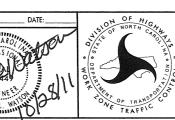
STAGE III - NC 181 NB/SB INSIDE LANES REFER TO SHEETS TMP-6, 6A.

RUTHERFORD CO. BRIDGES #14, 81, 119

PERFORM BRIDGE WORK USING FLAGGER CONTROLLED LANE CLOSURE PER ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 9.







VICINITY MAPS & TRAFFIC CONTROL PHASING

