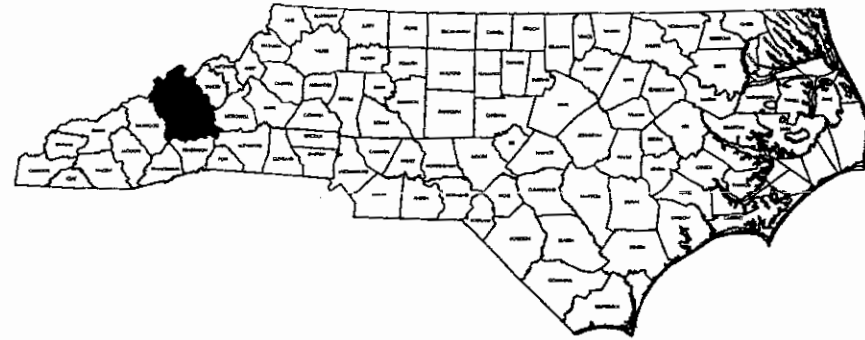


CONTRACT NO: C202590 TIP PROJECT: B-5179B/B-5179C



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

**BUNCOMBE & MADISON
COUNTIES**

LOCATION: B-5179B: I-240, B-5179C: I-26,
US 25-70, I-240, ISLAND ROAD, US 19/23 FUTURE
I-26, SR-1001, I-40

TYPE OF WORK: BRIDGE DECK PRESERVATION

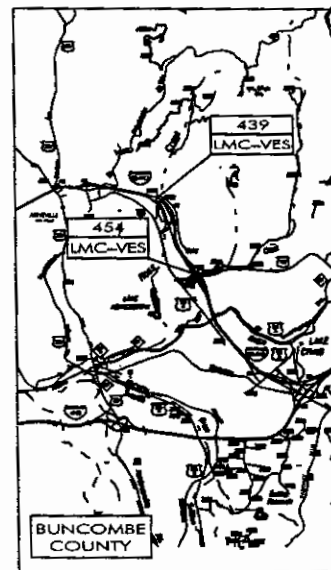
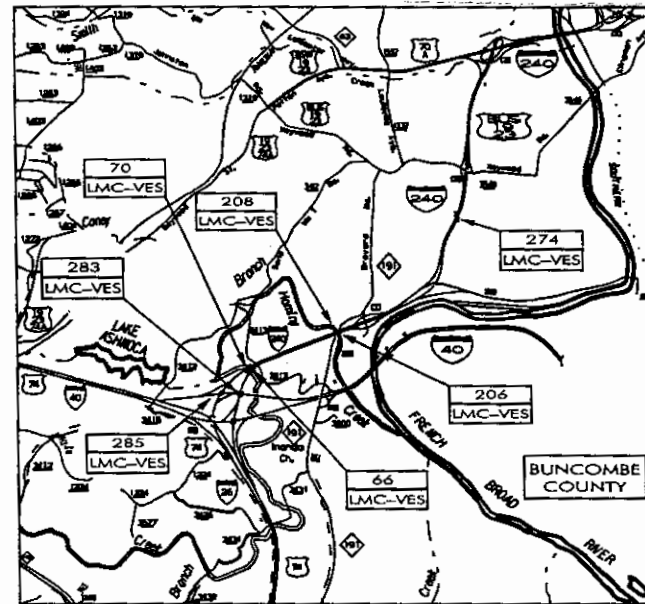
Brg. # 208

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5179B / B-5179C	1	
STATE PROJECT NO.	F.A. PROJ. NO.	DESCRIPTION	
45066.1ST1	STM-000S (531)	B5197B (PE)	
45066.1ST2	STM-000S (594)	B5197B (CONS)	
45066.1ST1	STM-000S (531)	B5197C (PE)	
45066.1ST3	STM-000S (615)	B5197C (CONS)	

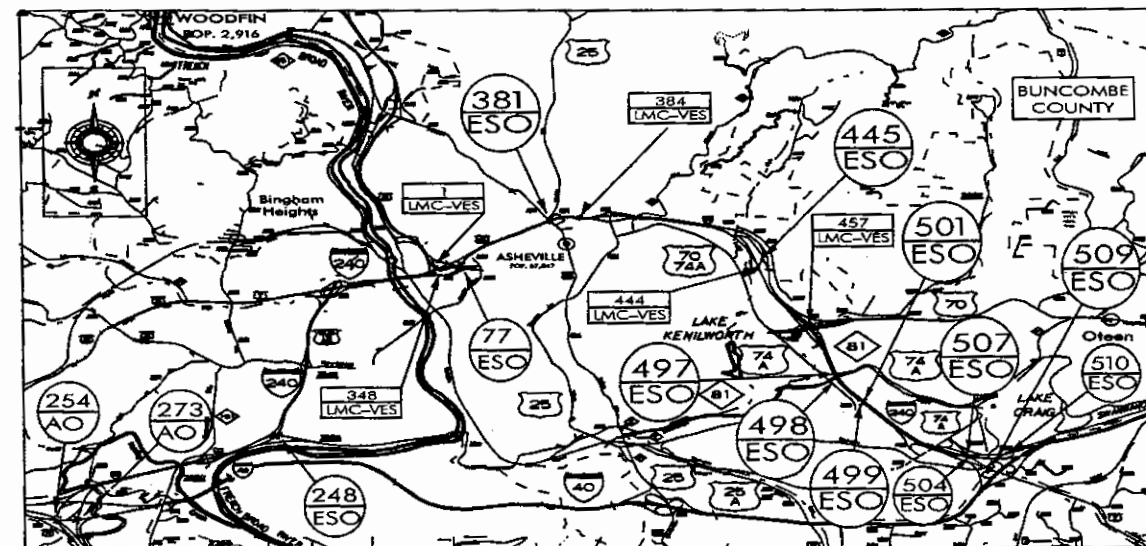
KEY:

- BR# LMC-VES LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH.
- BR# LMC LATEX MODIFIED CONCRETE.
- BR# ESO EPOXY STONE OVERLAY.
- BR# AO ASPHALT OVERLAY.

B-5179B

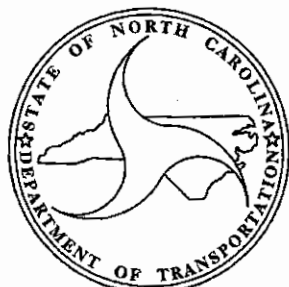
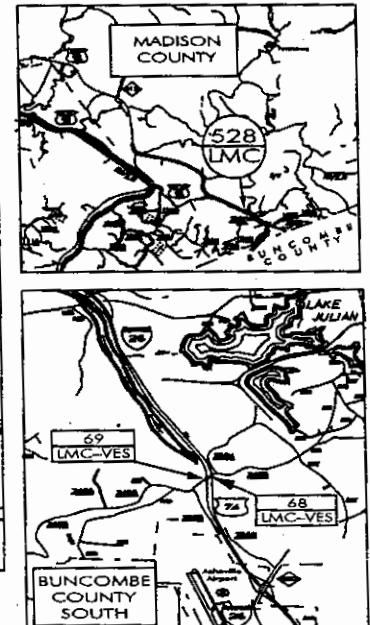


PART 1



B-5179C

PART 2



PROJECT LENGTH

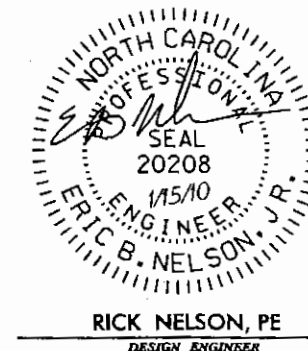
Prepared in the Office of:
BRIDGE MANAGEMENT UNIT
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

2006 STANDARD SPECIFICATIONS

LETTING DATE:
MAY 18, 2010

DAN HOLDERMAN, PE
STATE BRIDGE
MANAGEMENT ENGINEER

MIKE SUMMERS
BRIDGE MANAGEMENT
PROJECT MANAGER



RICK NELSON, PE
DESIGN ENGINEER

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF QUANTITIES

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C202542

ItemNumber	Sec #	Quantity	Unit	Description	ItemNumber	Sec #	Quantity	Unit	Description
00001000000-N	800	Lump Sum		MOBILIZATION	48470000000-E	1205	14,057	LF	POLYUREA PAVEMENT MARKING LINES (4", *****)
15250000000-E	610	237	TON	ASPHALT CONC SURFACE COURSE, TYPE SF9.5A					(HIGHLY REFLECTIVE ELEMENTS)
15600000000-E	620	15	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22	48470000000-E	1205	63	LF	POLYUREA PAVEMENT MARKING LINES (4", *****)
44000000000-E	1110	3,092	SF	WORK ZONE SIGNS (STATIONARY)					(STANDARD GLASS BEADS)
44050000000-E	1110	522	SF	WORK ZONE SIGNS (PORTABLE)	48471100000-E	1205	320	LF	POLYUREA PAVEMENT MARKING LINES (8", *****)
44100000000-E	1110	459	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)					(HIGHLY REFLECTIVE ELEMENTS)
44150000000-N	1115	14	EA	FLASHING ARROW PANELS, TYPE C	48500000000-E	1205	1,500	LF	REMOVAL OF PAVEMENT MARKING LINES (4")
44200000000-N	1120	35	EA	CHANGEABLE MESSAGE SIGN	48600000000-E	1205	800	LF	REMOVAL OF PAVEMENT MARKING LINES (8")
44300000000-N	1130	1,800	EA	DRUMS	49050000000-N	1253	78	EA	SNOWPLOWABLE PAVEMENT MARKERS
44350000000-N	1135	100	EA	CONES	60840000000-E	1660	1.6	ACR	SEEDING & MULCHING
44450000000-E	1145	1,208	LF	BARRICADES (TYPE III)	81610000000-E	420	141,819	SF	GROOVING BRIDGE FLOORS
44550000000-N	1150	204	MD	FLAGGER	85520000000-E	SP	3,003	SY	CLASS IB, SURFACE PREPARATION
44650000000-N	1160	5	EA	TEMPORARY CRASH CUSHIONS	85730000000-E	SP	89	CY	LATEX MODIFIED CONC OVERLAY
44700000000-N	1160	5	EA	RESET TEMPORARY CRASH CUSHIONS	85800000000-E	SP	1,283	SY	PLACING & FINISHING OF LATEX MODIFIED CONC OVERLAY
44800000000-N	1165	12	EA	TMIA	86920000000-N	SP	Lump Sum		EVAZOTE JOINT SEALS
44850000000-E	1170	4,210	LF	PORTABLE CONCRETE BARRIER	88810000000-E	SP	1,306.8	CY	GENERIC STRUCTURE ITEM LATEX MODIFIED CONC OVERLAY - VERY EARLY STRENGTH
45000000000-E	1170	4,210	LF	RESET PORTABLE CONCRETE BARRIER	88920000000-E	SP	2,185	SF	GENERIC STRUCTURE ITEM CLASS II CONC DECK REPAIR FOR EPOXY/ASPHALT OVERLAY
45100000000-N	SP	1,404	HR	LAW ENFORCEMENT	88920000000-E	SP	175,627	SF	GENERIC STRUCTURE ITEM PLACEMENT OF EPOXY OVERLAY
45160000000-N	1180	300	EA	SKINNY DRUM	88930000000-E	SP	17,954	SY	GENERIC STRUCTURE ITEM HYDRO-DEMOLITION OF BRIDGE DECK
46850000000-E	1205	750	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)					GENERIC STRUCTURE ITEM PLACING & FINISHING LATEX MOD CONCRETE OVERLAY - VERY EARLY STRENGTH
46860000000-E	1205	144	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)	88930000000-E	SP	16,671	SY	GENERIC STRUCTURE ITEM SCARIFYING BRIDGE DECK
47700000000-E	1205	2,600	LF	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (4") (IV)					
48100000000-E	1205	16,013	LF	PAINT PAVEMENT MARKING LINES (4")					
48200000000-E	1205	800	LF	PAINT PAVEMENT MARKING LINES (8")					

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

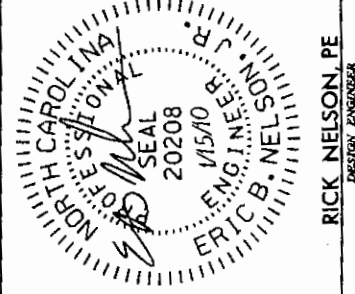
**BUNCOMBE & MADISON
COUNTIES**

LOCATION: B-5179B: I-240, B-5179C: I-26,
US 25-70, I-240, ISLAND ROAD, US 19/23 FUTURE
I-26, SR-1001, I-40
TYPE OF WORK: BRIDGE DECK PRESERVATION

INDEX OF SHEETS

SHT #	DESCRIPTION
1	TITLE SHEETS (B-5179B/B-5179C)
1A	INDEX OF SHEETS
2	SUMMARY OF QUANTITIES
PART I	
1 - 1A	TITLE SHEET INDEX OF SHEETS
2	ALTERNATE JOINT DETAIL
S1 THRU S28	STRUCTURE PLANS
TCP-1 THRU TCP-11	TRAFFIC CONTROL PLANS
PART II	
1	TITLE SHEET
S1 THRU S49	STRUCTURE PLANS
TCP-1 THRU TCP-15	TRAFFIC CONTROL PLANS

STATE	PROJECT	REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5179B / B-5179C	1	1A	
STATE PROJECT NO.				
F.A. PROJ. NO.		DESCRIPTION		
46066.1ST1	STM-0005 (S31)	B5197B (PE)		
46066.3ST2	STM-0005 (S94)	B5197B (CONS)		
46066.1ST1	STM-0005 (S31)	B5197C (PE)		
46066.3ST3	STM-0005 (S15)	B5197C (CONS)		



Prepared in the Office of:

BRIDGE MANAGEMENT UNIT
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
2006 STANDARD SPECIFICATIONS

LETTING DATE:
MAY 18, 2010

DAN HOLDERMAN, PE
STATE BRIDGE
MANAGEMENT ENGINEER

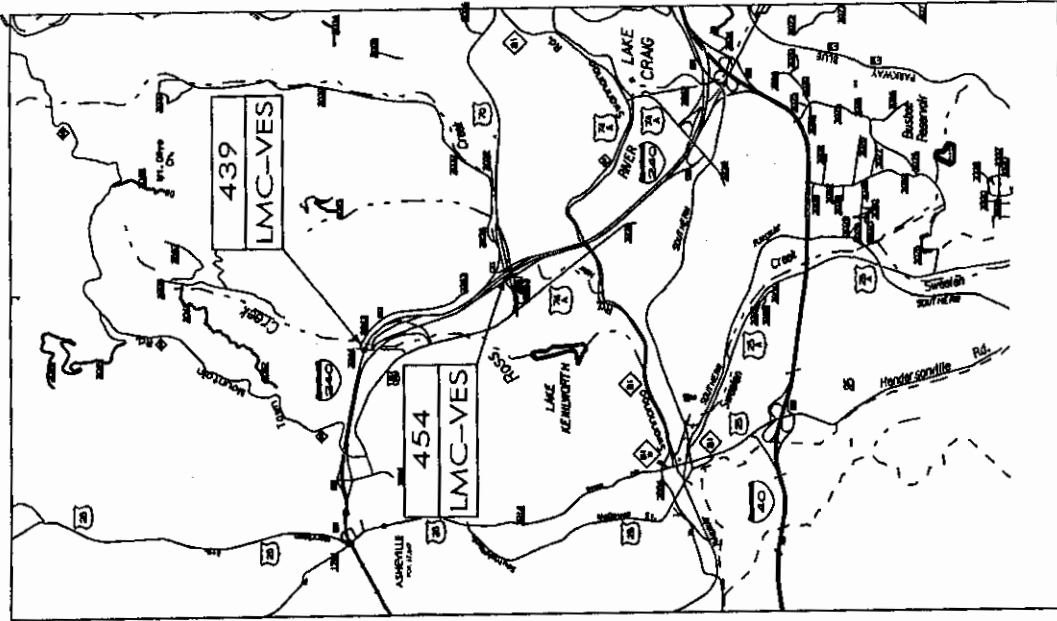
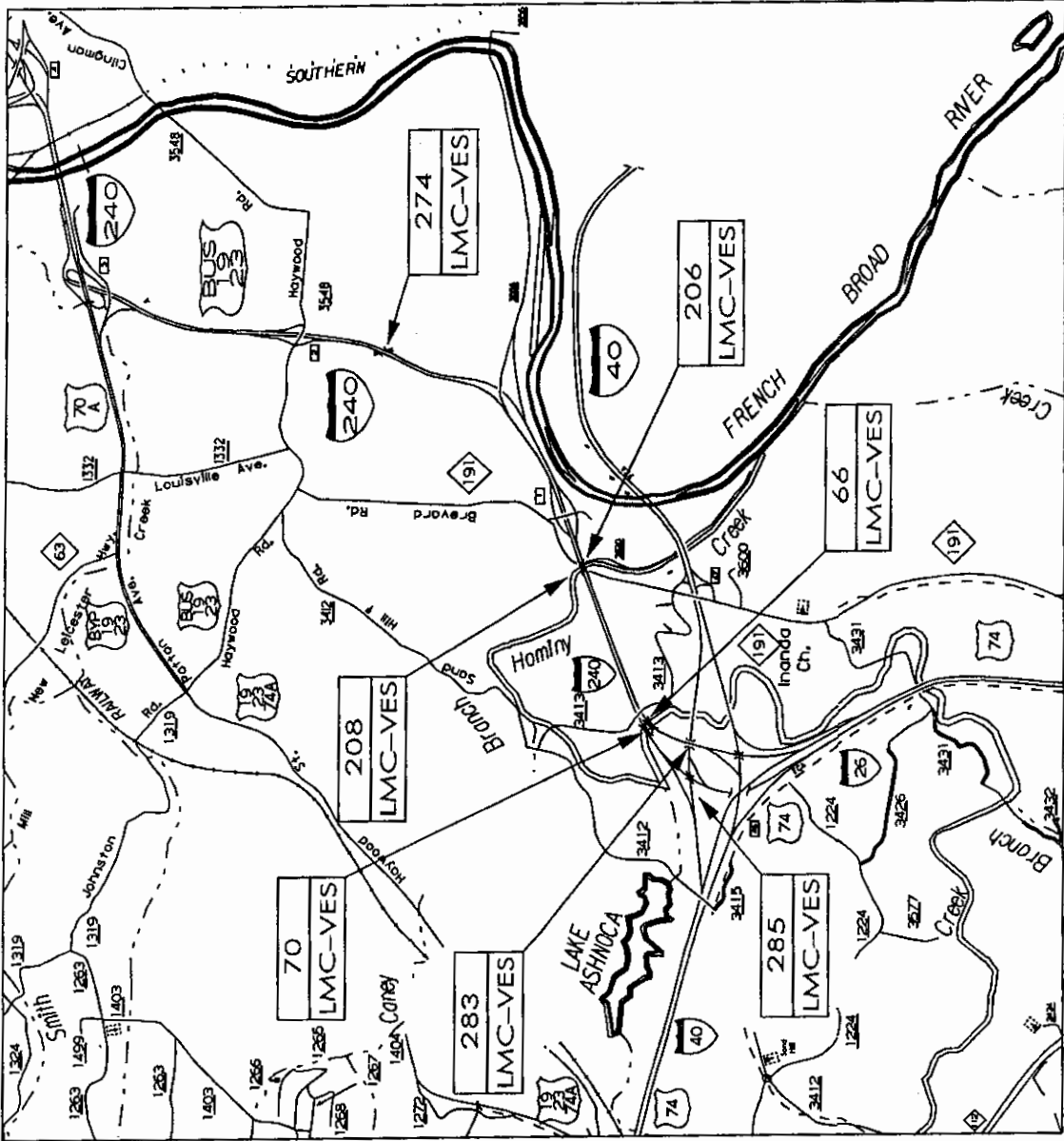
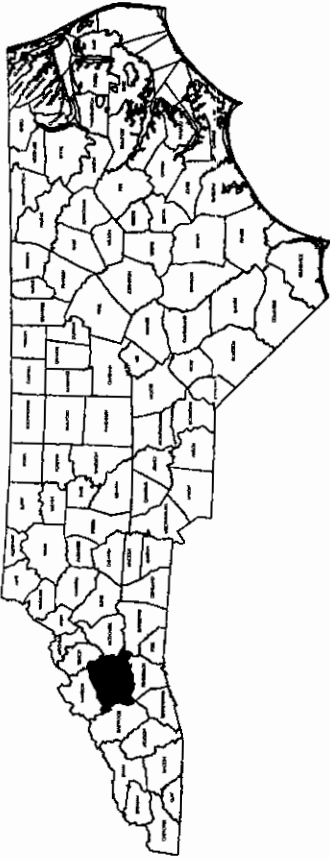
MIKE SUMMERS
BRIDGE MANAGEMENT
PROJECT MANAGER

TIP PROJECT: B-5179B

CONTRACT NO: C202590

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
BUNCOMBE COUNTY

LOCATION: I-240
TYPE OF WORK: BRIDGE DECK PRESERVATION



KEY:

BR#
LMC-VES

LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH.

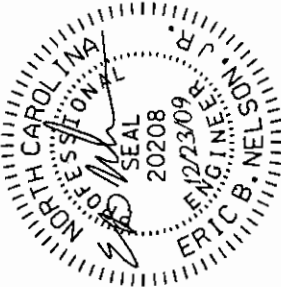
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5179B	1	1
STATE PROJECT NO.	F.A. PROJ. NO.	DESCRIPTION	
45066.1ST1	STM-000S (531)	PE	
45066.1ST2	STM-000S (594)	CONSTR	

PART 1



PROJECT LENGTH

Prepared in the Office of: BRIDGE MANAGEMENT UNIT NORTH CAROLINA DEPARTMENT OF TRANSPORTATION 20% STANDARD SPECIFICATIONS	
LETTING DATE: MAY 18, 2010	DAN HOLDERMAN, PE STATES BRIDGE MANAGEMENT ENGINEER
	MIKE SUMMERS BRIDGE MANAGEMENT PROJECT MANAGER



RICK NELSON, PE
DESIGN ENGINEER

TIP PROJECT: B-5179B

CONTRACT NO: C202590

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
BUNCOMBE COUNTY

LOCATION: I-240
TYPE OF WORK: BRIDGE DECK PRESERVATION

STATE	STATE PROJECT REFERENCE NO.	DATE	DATE
N.C.	B-5179B	I	1A
STATE PROJECT NO.	F.A. PROJ. NO.	DESCRIPTION	
45066.1ST1	STM-000S (631)	PE	
45066.1ST2	STM-000S (594)	CONSTR	

INDEX OF SHEETS

DESCRIPTION

SHEET #	TITLE SHEET
1	INDEX OF SHEETS
1A	ALTERNATE JOINT DETAIL
2	STRUCTURE PLANS
S1 THRU S28	
TCP-1 THRU TCP-11	TRAFFIC CONTROL PLANS



Prepared in the Office of:

BRIDGE MANAGEMENT UNIT

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

20% STANDARD SPECIFICATIONS

LETTING DATE:

MAY 18, 2010

DAN HOLDERMAN, PE

STATE BRIDGE
MANAGEMENT ENGINEER

MIKE SUMMERS

BRIDGE MANAGEMENT
PROJECT MANAGER

Seal of the North Carolina Department of Transportation

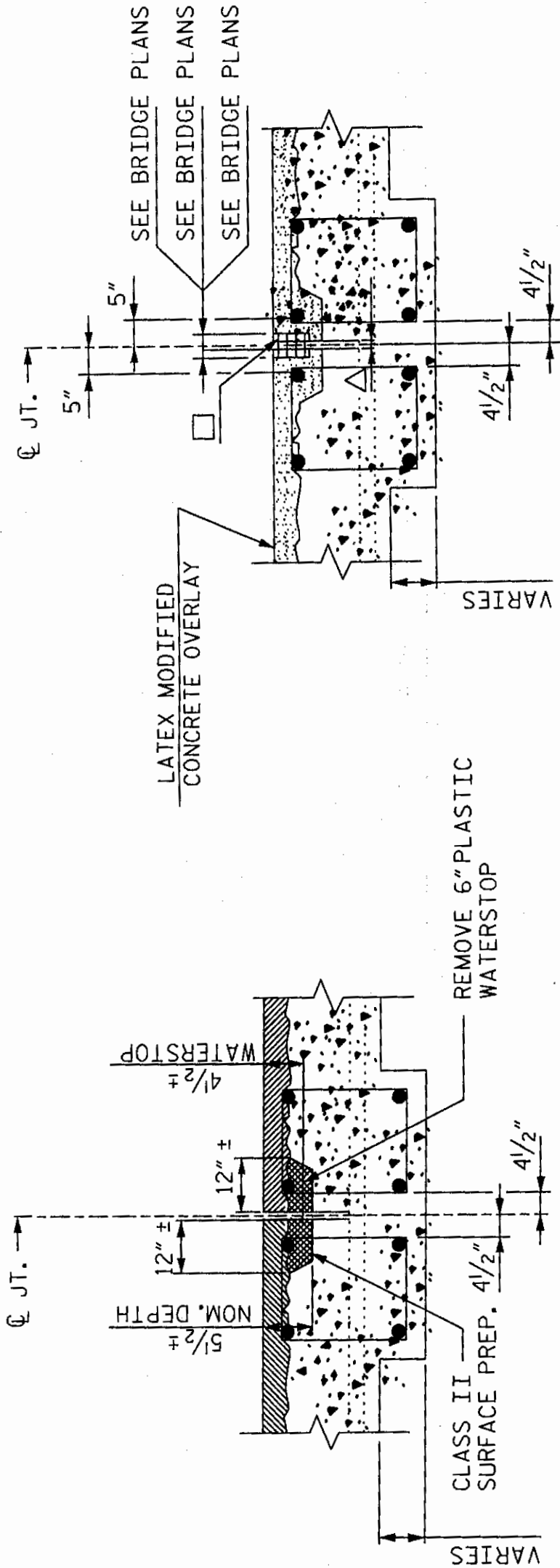
ERIC B. NELSON, PE

20208

ENGINEER

RICK NELSON, PE

DESIGN ENGINEER



SECTION D-D

(MINIMUM EXISTING
JOINT DEMOLITION)

NOTE: RETAIN ALL EXISTING REINF.
STEEL. CLEAN AND REPAIR AS REQ'D.

SECTION D-D

(JOINT SEAL DESIGN)

- ☐ UNCOMPRESSED SEAL MATERIAL (SEE
BRIDGE PLANS FOR SEAL WIDTH)
- ☐ FORMED OPENING (SEE BRIDGE PLANS)

PROJECT NO. B-5179B
BUNCOMBE COUNTY

STATION: _____
SHEET _____ OF _____

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

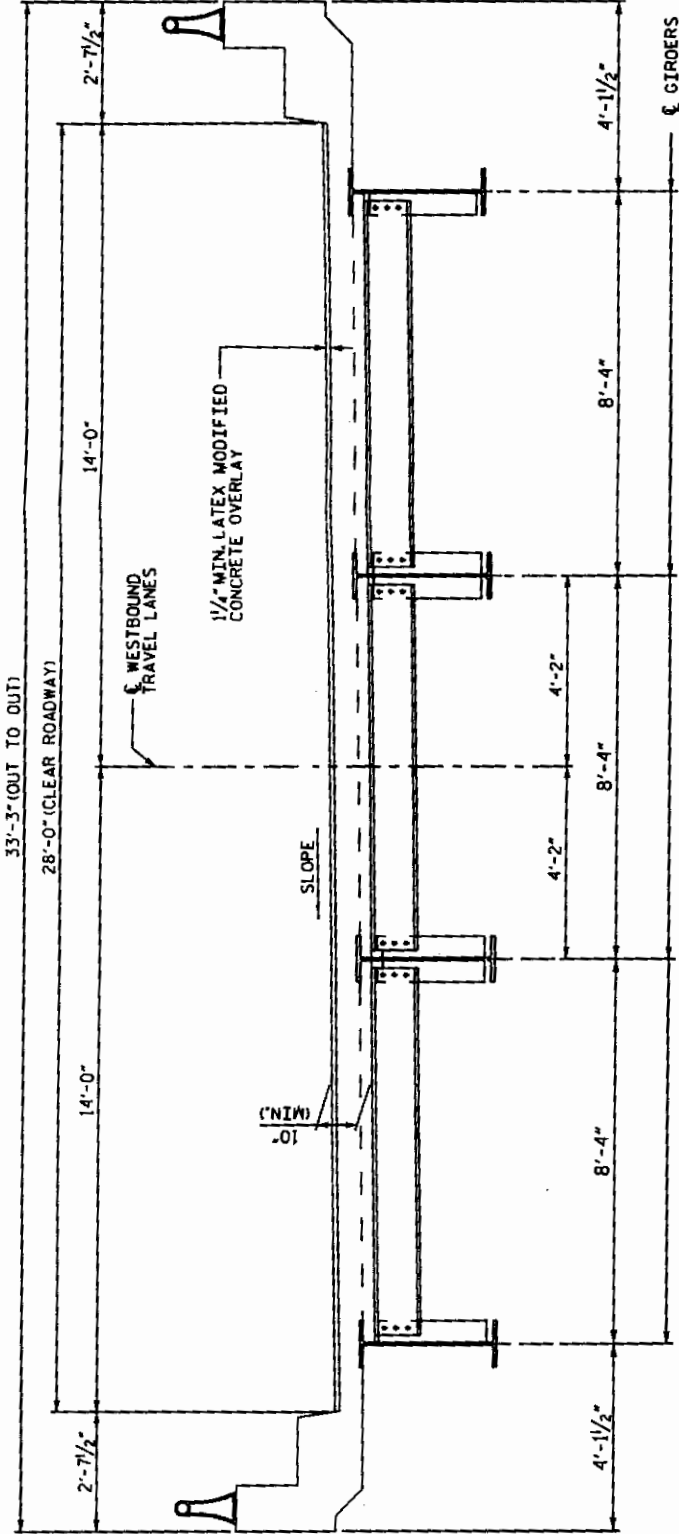
ALTERNATE
JOINT DETAIL

REVISIONS				SHEET NO.	
NO.	DATE	BY	DATE	NO.	DATE
1				4	
2				5	

NC009

ALTERNATE JOINT DETAIL FOR BRIDGE NUMBERS
66, 70, 206, 208, 274, 283, & 285

DRAWN BY : CBMU DATE : 12/2/09
CHECKED BY : DATE :

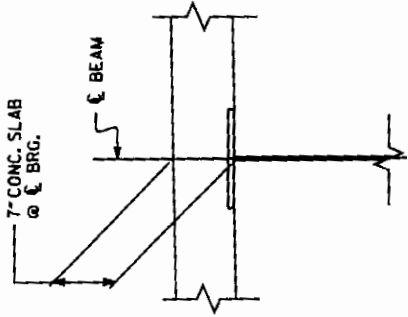


TYP. SECTION
(SHOWING PARTIAL DIAPHRAGMS AT EXPANSION JOINTS)

NOTES:

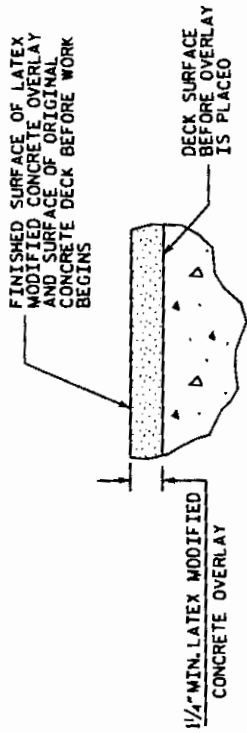
- FOR HYDRO-DEMOLITION OF BRIDGE DECK, SEE SPECIAL PROVISIONS.
- THE CONTRACTOR MUST COLLECT, TREAT AND DISPOSE OF RUN-OFF WATER FROM THE HYDRO-DEMOLITION PROCESS. SEE "HYDRO-DEMOLITION OF BRIDGE DECK" SPECIAL PROVISION.
- THE BOUNDARIES OF AREAS IDENTIFIED FOR CLASS III SURFACE PREPARATION ARE APPROXIMATE. THE CONTRACTOR SHALL PROVIDE A METHOD OF HANDLING UNEXPECTED BLOW THROUGH OF THE DECK, SEE "TYP. "BLOW THRU" CONTAINMENT AND FORMWORK" DETAIL.
- THE NOMINAL UNCOMPRESSED SEAL WIDTH OF THE EVAZOTE JOINT SEAL SHALL BE 2 1/2" AT END BENTS 1 & 2 AND BENTS 1&2. FOR EVAZOTE JOINT SEALS, SEE SPECIAL PROVISIONS.
- FOR ELASTOMERIC CONCRETE FOR JOINT REPAIR, SEE SPECIAL PROVISIONS.
- LATEX MODIFIED CONCRETE SHALL BE LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH.
- FOR LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH, SEE SPECIAL PROVISIONS.
- FOR GROOVING BRIDGE FLOORS INFORMATION, SEE "LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH" SPECIAL PROVISION.
- FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.
- FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

EXIST. SLAB SECTION

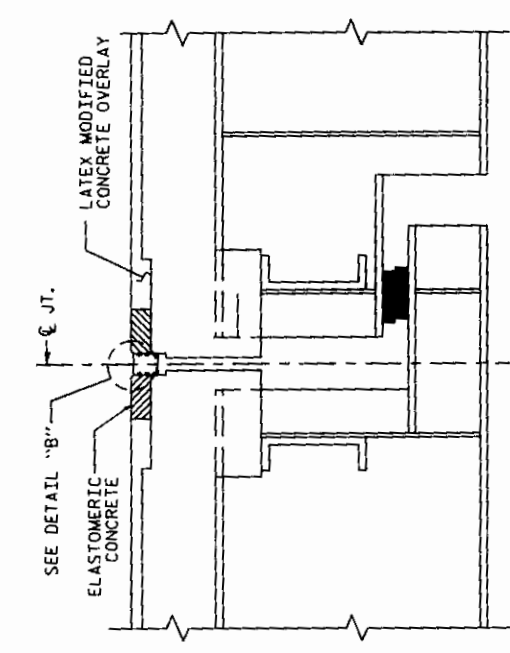
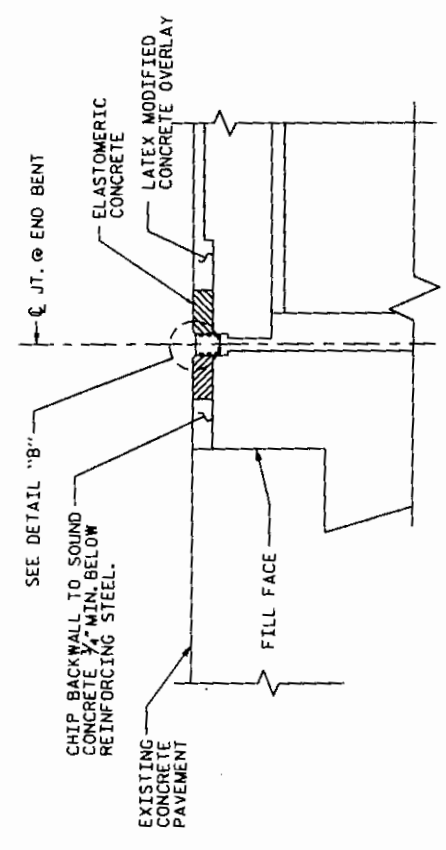
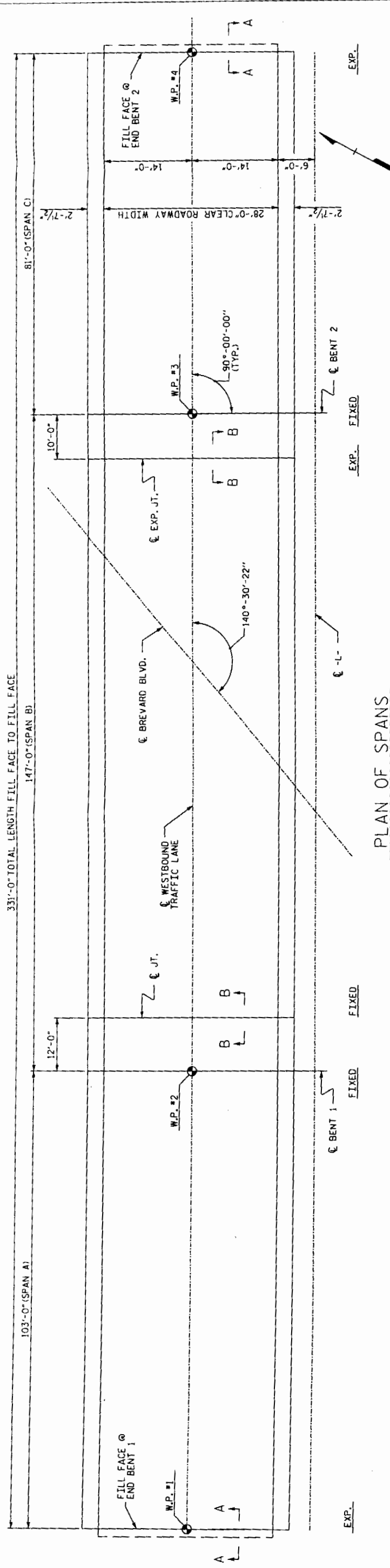


PROJECT NO. B-5179B
BUNCOMBE COUNTY
STATION: 25+07.35 -L-

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
TYPICAL SECTION					
DECK REHAB. FOR BRIDGE NO. 208					
REVISIONS					
NO.	DATE	BY	DATE	BY	DATE
1		3		4	
SHEET NO. S-10		DATE		DATE	
28		28		28	



DETAIL FOR LATEX
MODIFIED CONCRETE OVERLAY



TOTAL BILL OF MATERIAL										
SCABBLING BRIDGE DECK	CLASS I * SURFACE PREPARATION	CLASS II * SURFACE PREPARATION	CLASS III * SURFACE PREPARATION	UNDER DECK CONTAINMENT	HYDRO- DEMOLITION OF BRIDGE DECK	CLASS AA CONCRETE	LATEX MODIFIED CONCRETE OVERLAY-VERY EARLY STRENGTH	PLACING AND FINISHING LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH	EVAZOTE JOINT SEALS	GROUTING BRIDGE FLOORS
SO. YDS.	SO. YDS.	SO. YDS.	SO. YDS.	SO. FT.	SO. YDS.	CU. YDS.	CU. YDS.	SO. YDS.	LUMP SUM	SO. FT.
1030	869	136	25	225	1030	3.5	72	1030	LUMP SUM	8155

* QUANTITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.

PROJECT NO. B-5179B
BUNCOMBE COUNTY
 STATION: 25+07.35 -L-

PROJECT NO. _____
BUNCOMBE COUNTY

STATION: 25+07.35 -L-

SHEET 1 OF 2

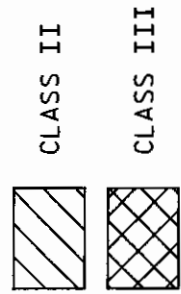
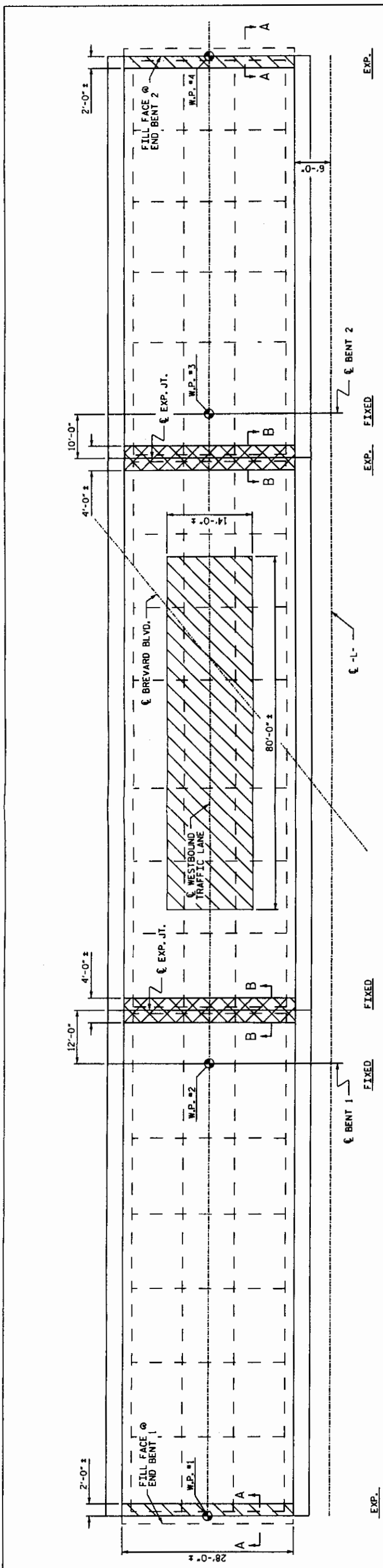
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

PLAN OF SPANS FOR DECK REPAIR

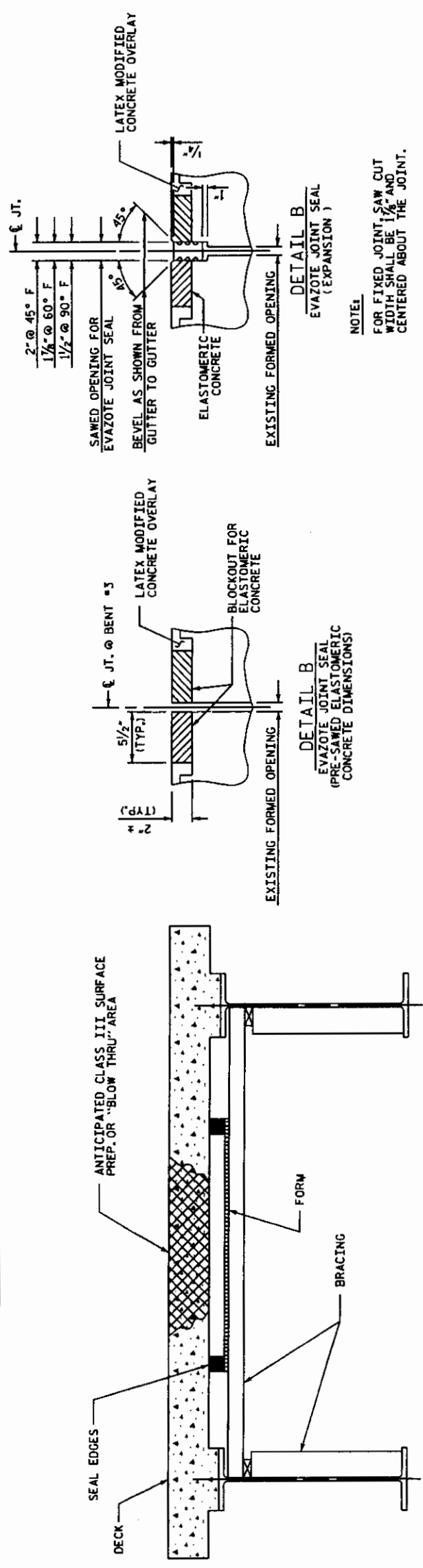
DECK REHAB. FOR BRIDGE NO. 208	SUBJECT NO.
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REVISIONS					SHEET NO.
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

TOTAL SHEETS					5-11
					28



PLAN OF SPANS - DECK REPAIRS



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 FORMWORK FOR APPROVAL PRIOR TO BEGINNING WORK.

ELASTOMERIC CONCRETE	
BENT NO.	ELASTOMERIC CONCRETE # (CU. FT.)
E.B. 1	4.3
BENT 1	4.3
BENT 2	4.3
E.B. 2	4.3
TOTAL	17.2

* BASED ON THE MINIMUM BLOCKOUT SHOWN.

PROJECT NO. B-5179B
BUNCOMBE COUNTY
STATION: 25+07.35 -L-
SHEET 2 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
HALLCOM
PLAN OF SPANS
FOR DECK REPAIR

REVISIONS		SHEET NO.	
NO.	DATE	BY	DATE
1			
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DRAWN BY: M.A. ALLEN DATE: 08-09
CHECKED BY: R.W. WRIGHT DATE: 08-09