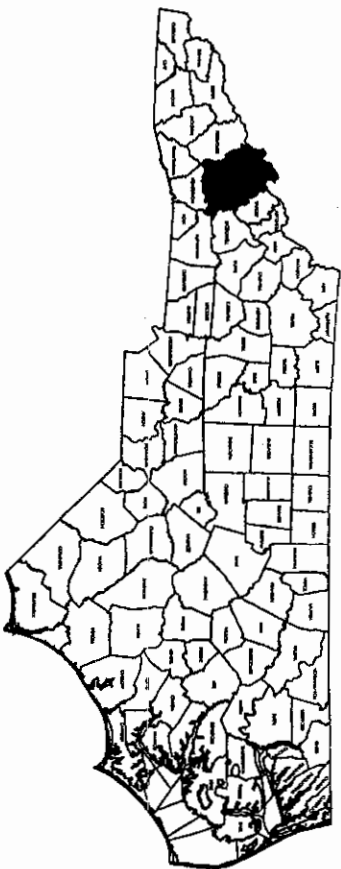




STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

Brig. # 206

**BUNCOMBE & MADISON
COUNTIES**

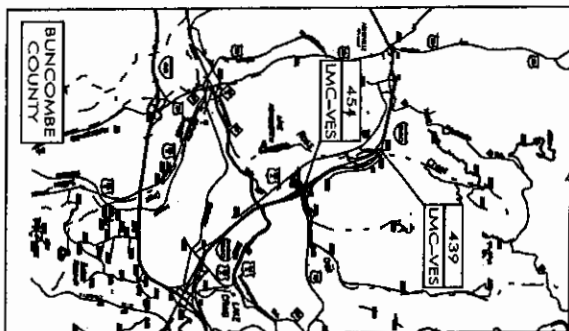
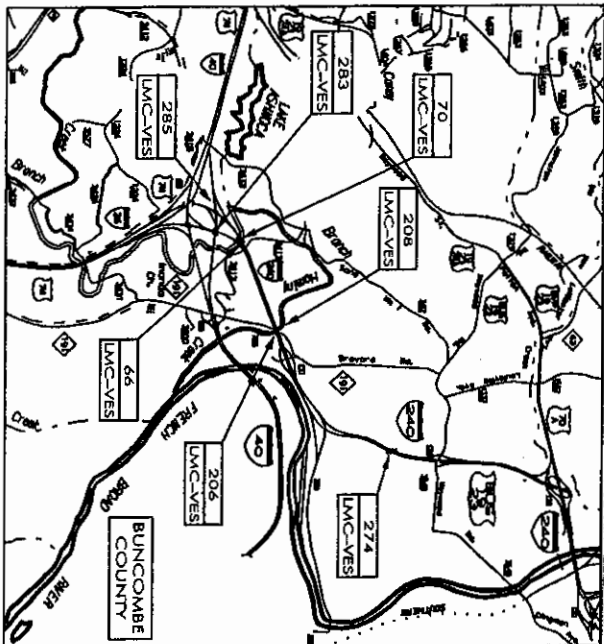
LOCATION: B-5179B: I-240, B-5179C: I-26,
US 25-70, I-240, ISLAND ROAD, US 19/23 FUTURE
I-26, SR-1001, I-40
TYPE OF WORK: BRIDGE DECK PRESERVATION

KEY:

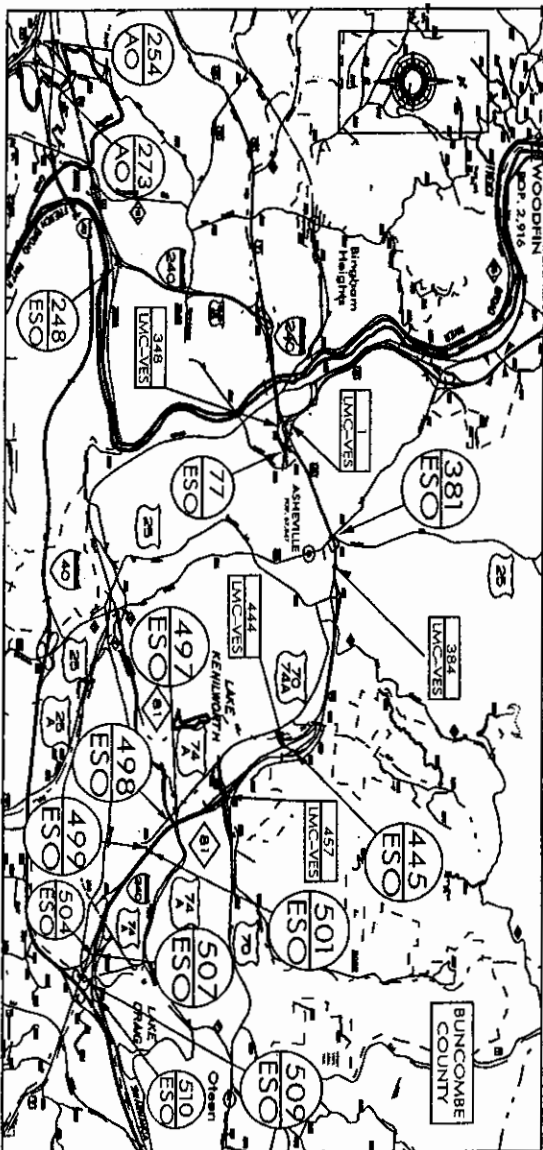
- ESB LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH.
- LMC LATEX MODIFIED CONCRETE.
- ASB EPOXY STONE OVERLAY.
- ASB ASPHALT OVERLAY.

STATE	STATE PROJECT REFERENCE NO.	PROJECT NO.	DATE
NC	B-5179B / B-5179C	1	
STATE PROJECT NO.	F.A. PROJ. NO.	DESCRIPTION	
450661STI	STM-0005 (GSI)	B5197B (PE)	
450661STI	STM-0005 (G94)	B5197B (CONS)	
450661STI	STM-0005 (GSI)	B5197C (PE)	
450661STI	STM-0005 (G15)	B5197C (CONS)	

B-5179B

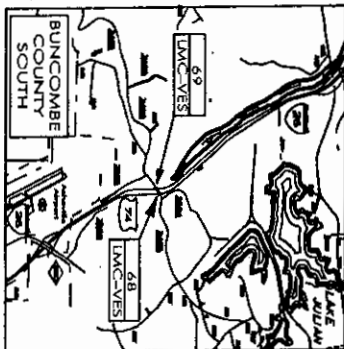
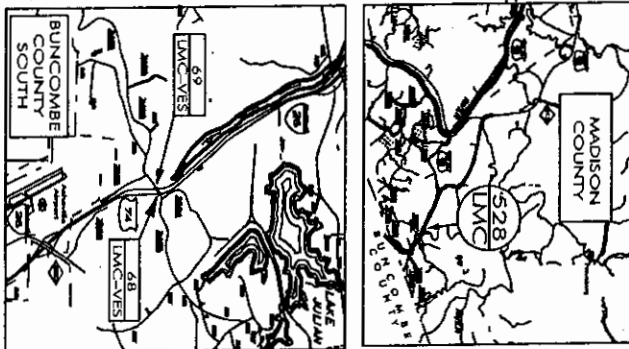


PART 1



B-5179C

PART 2



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



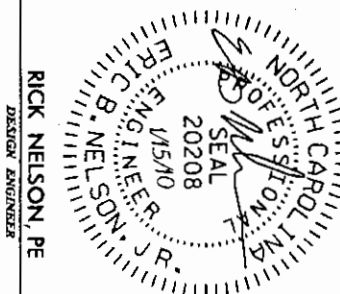
PROJECT LENGTH

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

Item Number	Sec #	Quantity	Unit	Description	Item Number	Sec #	Quantity	Unit	Description
00001000000-N	800	Lump Sum		MOBILIZATION	4847000000-E	1205	14,057	LF	POLYUREA PAVEMENT MARKING LINES (4" *****) (HIGHLY REFLECTIVE ELEMENTS)
1325000000-E	610	237	TON	ASPHALT CONC SURFACE COURSE, TYPE SF9.5A	4847000000-E	1205	63	LF	POLYUREA PAVEMENT MARKING LINES (4" *****) (STANDARD GLASS BEADS)
1560000000-E	620	15	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22	4847110000-E	1205	320	LF	POLYUREA PAVEMENT MARKING LINES (8" *****) (HIGHLY REFLECTIVE ELEMENTS)
4400000000-E	1110	3,092	SF	WORK ZONE SIGNS (STATIONARY)	4850000000-E	1205	1,500	LF	REMOVAL OF PAVEMENT MARKING LINES (4")
4405000000-E	1110	522	SF	WORK ZONE SIGNS (PORTABLE)	4860000000-E	1205	800	LF	REMOVAL OF PAVEMENT MARKING LINES (8")
4410000000-E	1110	459	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)	4905000000-N	1253	78	EA	SNOWPLOWABLE PAVEMENT MARKERS
4415000000-N	1115	14	EA	FLASHING ARROW PANELS, TYPE C	6084000000-E	1660	1.6	ACR	SEEDING & MULCHING
4420000000-N	1120	35	EA	CHANGEABLE MESSAGE SIGN	8161000000-E	420	141,819	SF	GROOVING BRIDGE FLOORS
4430000000-N	1130	1,800	EA	DRUMS	8552000000-E	SP	3,003	SY	CLASS 1B, SURFACE PREPARATION
4435000000-N	1135	100	EA	CONES	8573000000-E	SP	89	CY	LATEX MODIFIED CONC OVERLAY
4445000000-E	1145	1,208	LF	BARRICADES (TYPE III)	8580000000-E	SP	1,283	SY	PLACING & FINISHING OF LATEX MODIFIED CONC OVERLAY
4450000000-N	1150	204	MD	FLAGGER	8692000000-N	SP	Lump Sum		EVAZOTE JOINT SEALS
4465000000-N	1160	5	EA	TEMPORARY CRASH CUSHIONS	8892000000-E	SP	175,627	SF	GENERIC STRUCTURE ITEM CLASS II CONC DECK REPAIR FOR EPOXY/ASPHALT OVERLAY
4470000000-N	1160	5	EA	RESET TEMPORARY CRASH CUSHIONS	8893000000-E	SP	17,954	SY	GENERIC STRUCTURE ITEM HYDRO-DEMOLITION OF BRIDGE DECK
4480000000-N	1165	12	EA	TMIA	8893000000-E	SP	16,671	SY	GENERIC STRUCTURE ITEM PLACING & FINISHING LATEX MOD CONCRETE OVERLAY - VERY EARLY STRENGTH
4485000000-E	1170	4,210	LF	PORTABLE CONCRETE BARRIER	8893000000-E	SP	17,954	SY	GENERIC STRUCTURE ITEM PLACING & FINISHING LATEX MOD CONCRETE OVERLAY - VERY EARLY STRENGTH
4500000000-E	1170	4,210	LF	RESET PORTABLE CONCRETE BARRIER	8893000000-E	SP	17,954	SY	GENERIC STRUCTURE ITEM SCARIFYING BRIDGE DECK
4510000000-N	SP	1,404	HR	LAW ENFORCEMENT					
4516000000-N	1180	300	EA	SKINNY DRUM					
4685000000-E	1205	750	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)					
4686000000-E	1205	144	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)					
4770000000-E	1205	2,600	LF	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (4") (TV)					
4810000000-E	1205	16,013	LF	PAINT PAVEMENT MARKING LINES (4")					
4820000000-E	1205	800	LF	PAINT PAVEMENT MARKING LINES (8")					

*****SYTIME*****
*****DNAME*****
*****USERNAME*****

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
NC	B-5179B / B-5179C	1	1A
STATE PROJECT NO.	F.A. PROJ. NO.	DESCRIPTION	
45066.1ST1	STM-0005 (SS1)	B5197B (PE)	
45066.1ST2	STM-0005 (SS2)	B5197B (CONS)	
45066.1ST1	STM-0005 (SS1)	B5197C (PE)	
45066.1ST3	STM-0005 (SS3)	B5197C (CONS)	

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

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

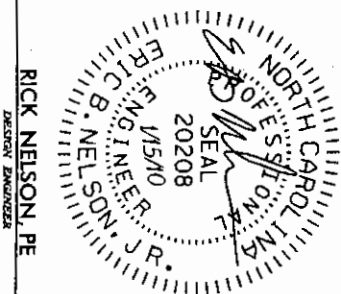


Prepared in the Office of:
BRIDGE MANAGEMENT UNIT
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
2006 STANDARD SPECIFICATIONS

LETTING DATE:
MAY 18, 2010

DAN HOLDERMAN, PE
STATE BRIDGE
MANAGEMENT ENGINEER

MIKE SUMMERS
BRIDGE MANAGEMENT
PROJECT MANAGER



\$DATE\$
\$FILE\$

\$TIME\$

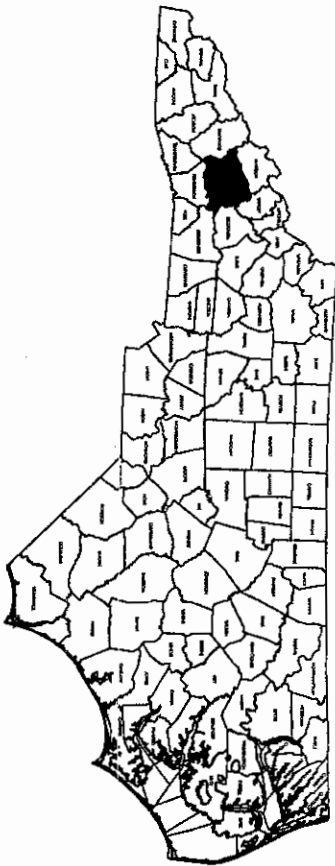
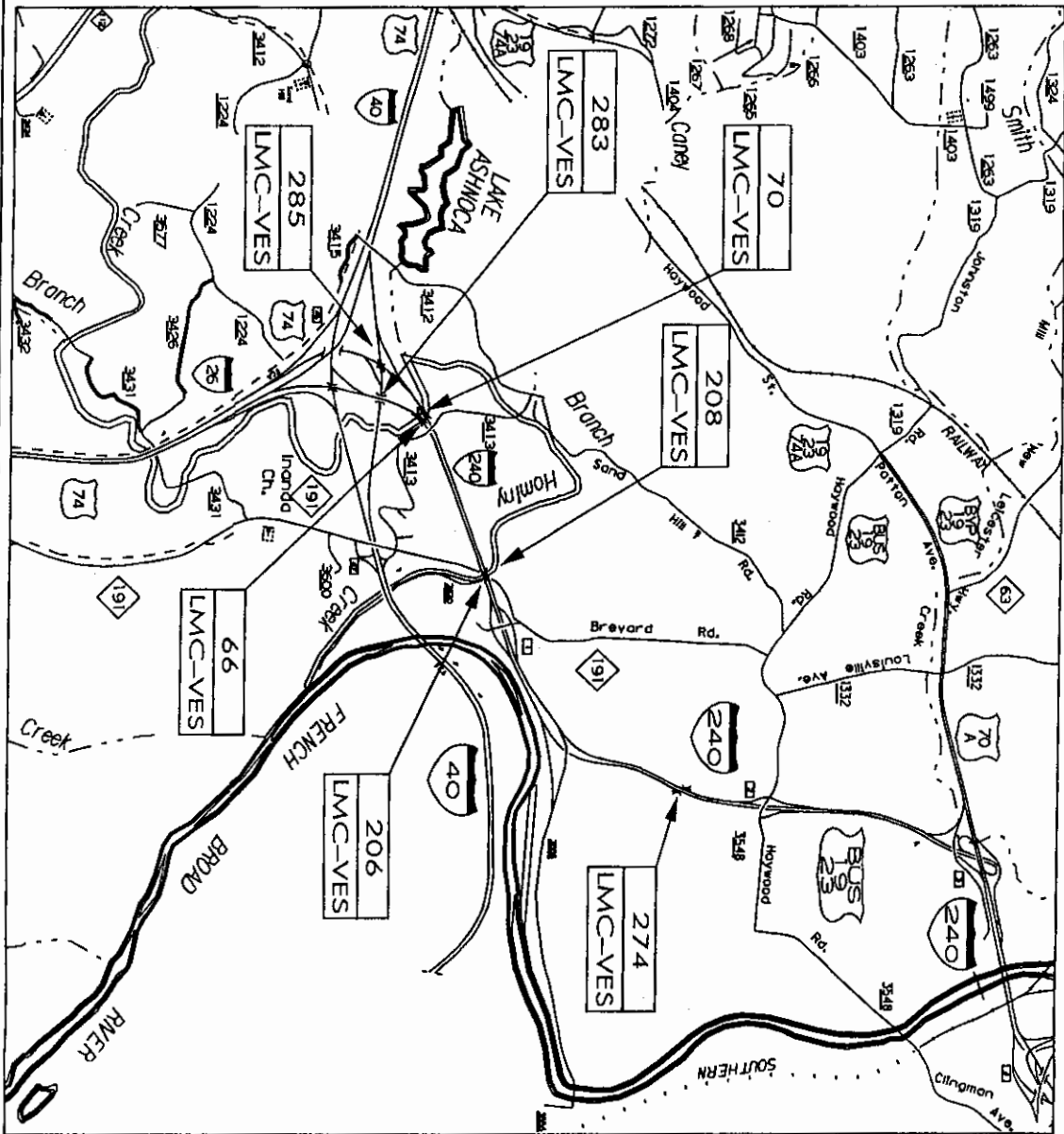
CONTRACT NO: C202590 TIP PROJECT: B-5179B/B-5179C

CONTRACT NO: C202590

TIP PROJECT: B-5179B



PROJECT LENGTH



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

BUNCOMBE COUNTY

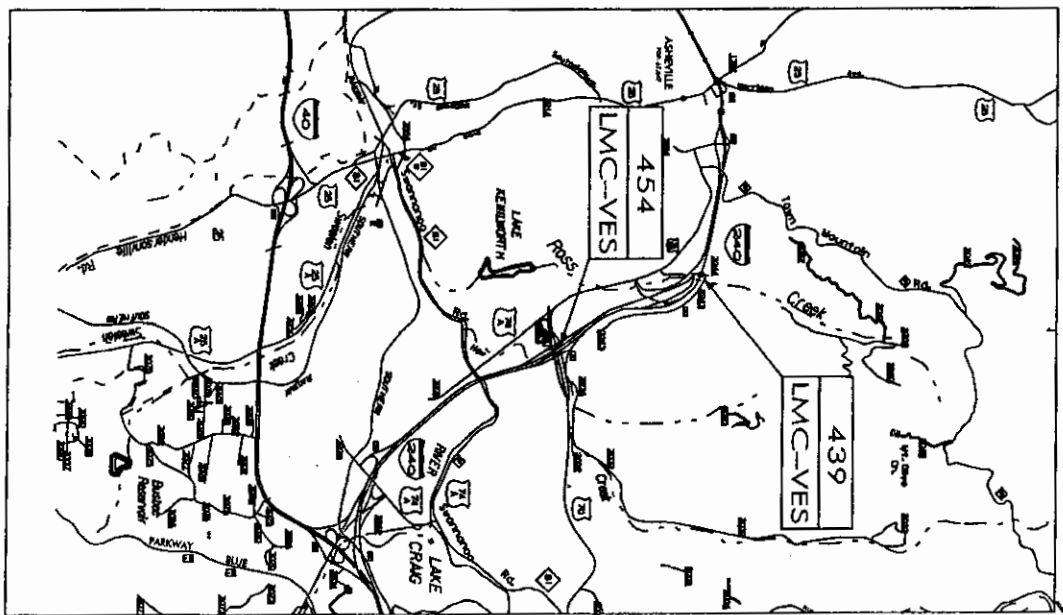
LOCATION: I-240
TYPE OF WORK: BRIDGE DECK PRESERVATION

KEY:

BR#
LMC-VES

LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH.

STATE	PROJECT REFERENCE NO.	LINE	SECTION
N.C.	B-5179B	1	
STATE PROJECT NO.	F.A. PROJ. NO.	DESCRIPTION	
45064.571	STM-0005 (631)	PE	
45064.572	STM-0005 (594)	CONSTR.	



PART 1

Prepared in the Office of:

BRIDGE MANAGEMENT UNIT

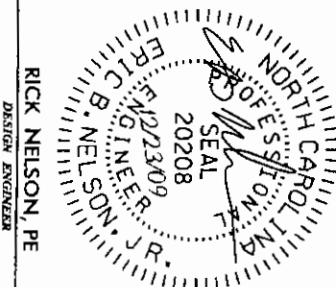
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

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

CONTRACT NO: C202590

TIP PROJECT: B-5179B



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

BUNCOMBE COUNTY

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

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5179B	1	1A
STATE PROJECT NO.	F.A. PROJ. NO.	DESCRIPTION	
45066.1ST1	STM-0005 (S11)	PE	
45066.1ST2	STM-0005 (S9.0)	CONSTR	

INDEX OF SHEETS

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

Prepared in the Office of:

BRIDGE MANAGEMENT UNIT

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

2006 STANDARD SPECIFICATIONS

LETTING DATE:

MAY 18, 2010

DAN HOLDERMAN, PE

SEAL

20208

ENGINEER

MANAGEMENT ENGINEER

MIKE SUMMERS

BRIDGE MANAGEMENT

PROJECT MANAGER

NORTH CAROLINA

SEAL

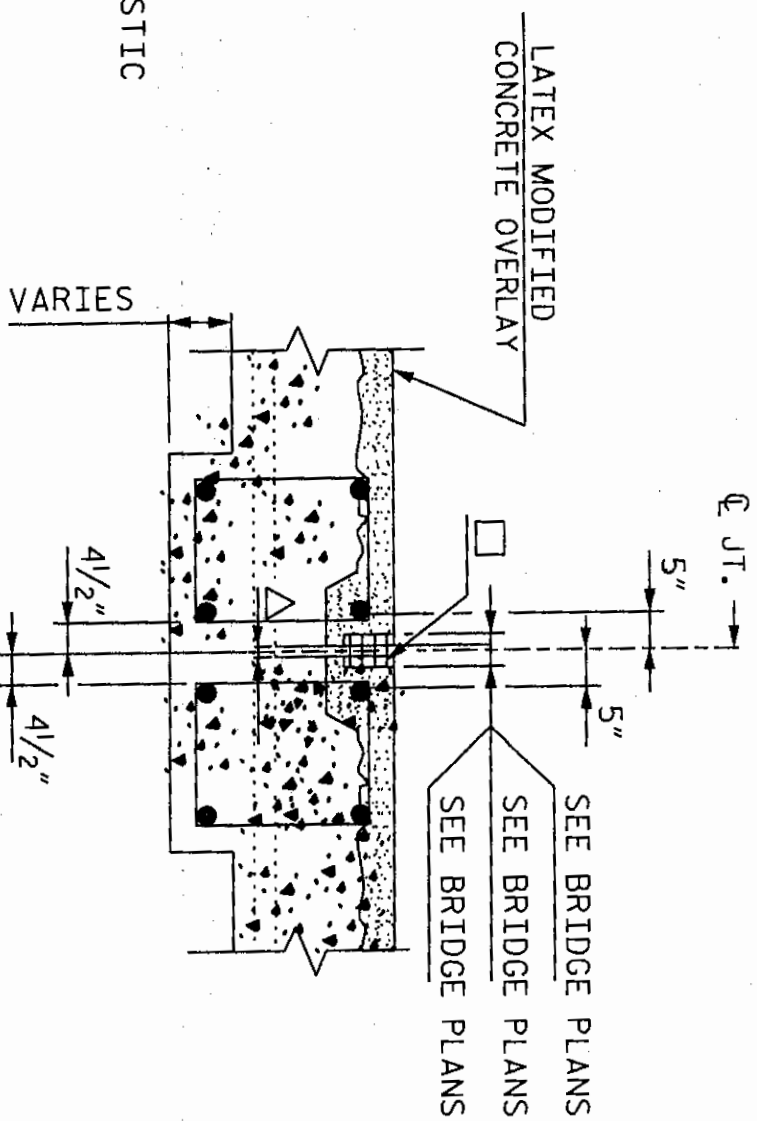
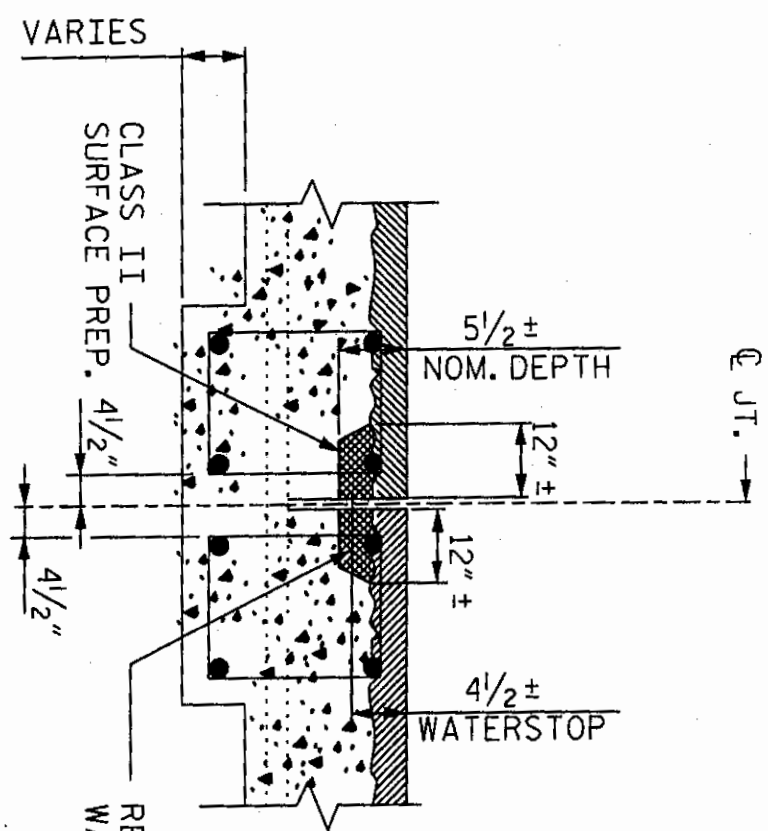
20208

ENGINEER

ERIC B. NELSON, J.R.

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)

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

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

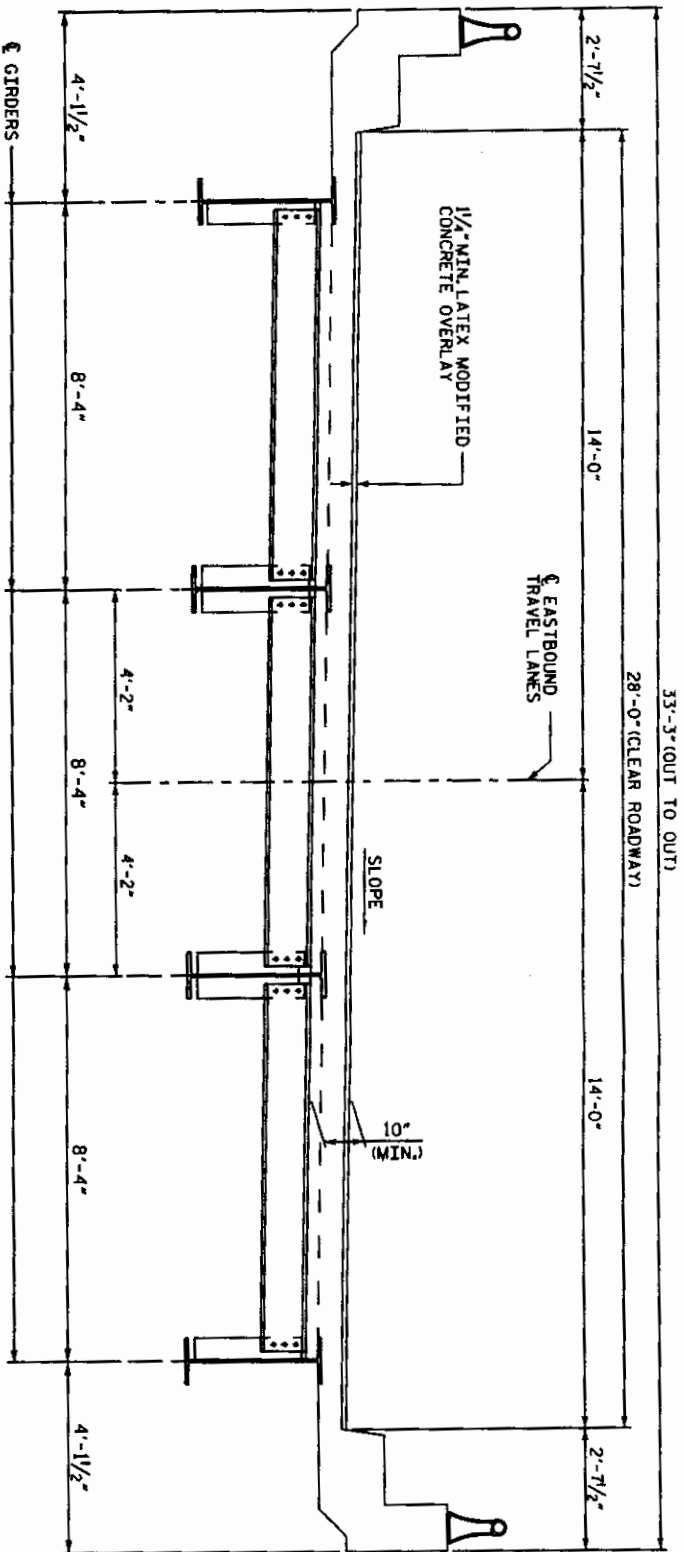
REVISIONS

NO.	BY	DATE	REVISIONS	SHEET NO.
1				50/75
2				

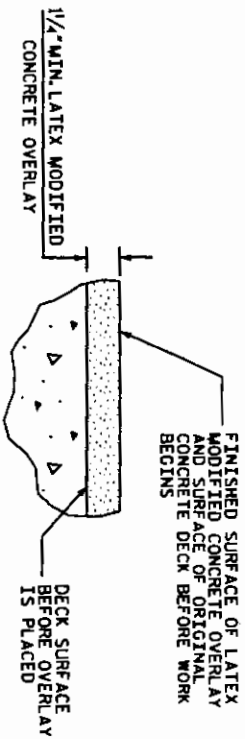
NC0006

ALTERNATE JOINT DETAIL
STATE OF ARIZONA
DEPARTMENT OF TRANSPORTATION
MAILED

PROJECT NO. B-5179B
BUNCOMBE COUNTY
STATION: _____
SHEET _____ OF _____



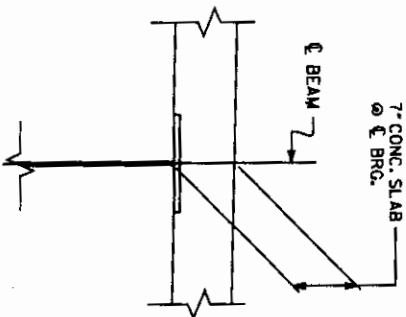
TYP. SECTION
(SHOWING PARTIAL DIAPHRAGMS AT EXPANSION JOINTS)



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

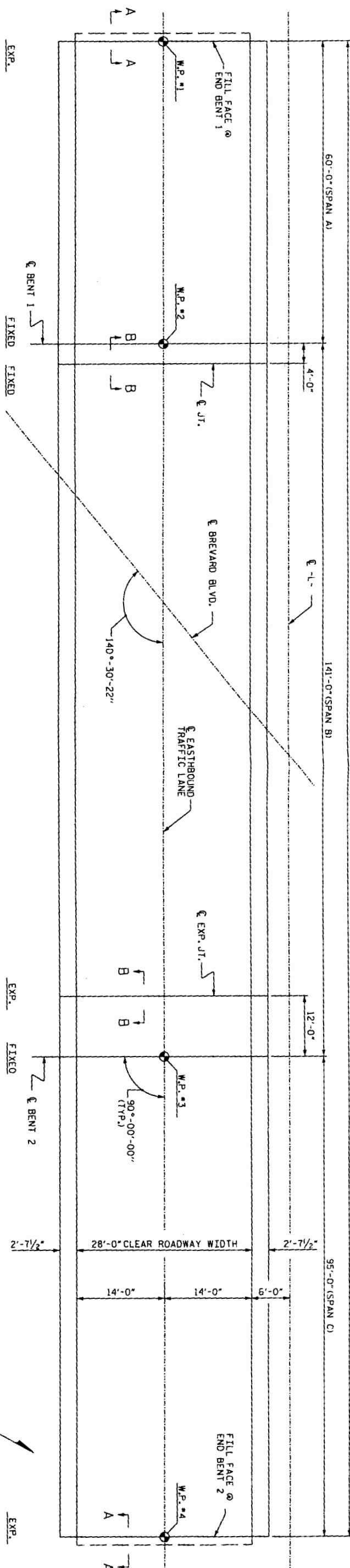


PROJECT NO. B-5179B
BUNCOMBE COUNTY
STATION: 25+07.35 -L-

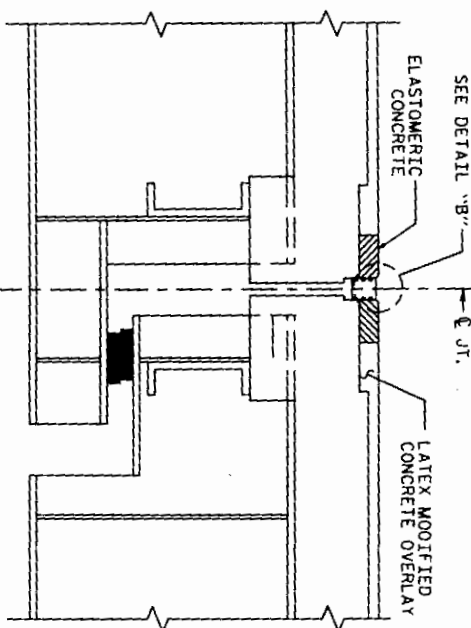
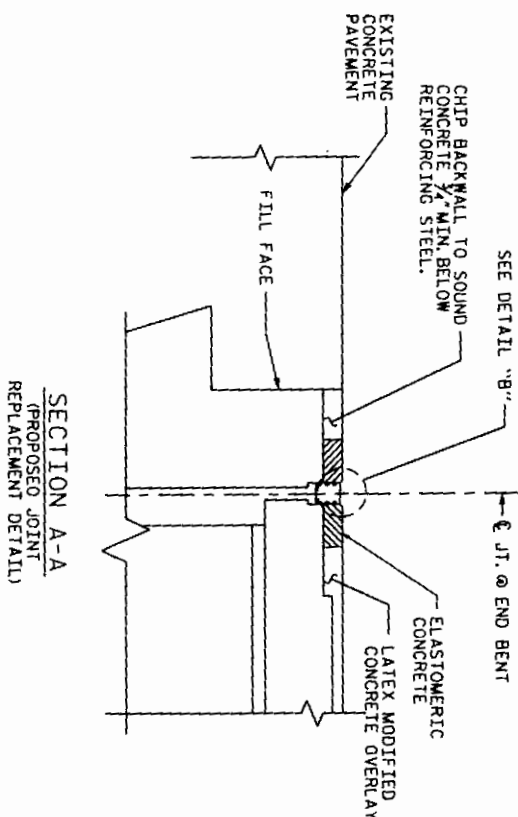
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
TYPICAL SECTION

DECK REHAB. FOR BRIDGE NO. 206				
REVISIONS				
NO.	BY	DATE	NO.	BY
1			2	
TOTAL				SHEET NO. 5-7

296'-0" TOTAL LENGTH FILL FACE TO FILL FACE



PLAN OF SPANS



TOTAL BILL OF MATERIAL							
SCARIFYING 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
SQ. YDS.	SQ. YDS.	SQ. YDS.	SQ. YDS.	SQ. FT.	SQ. YDS.	CU. YDS.	CU. YDS.
920	831	86	3	27	920	0.5	64
				PLACING AND FINISHING LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH	EVAZOTE JOINT SEALS	GROOVING BRIDGE FLOORS	
				SQ. YDS.	LUMP SUM	SQ. FT.	
				920		7300	

* QUANTITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.

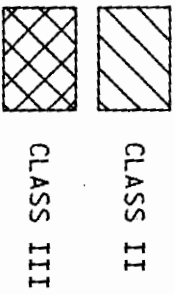
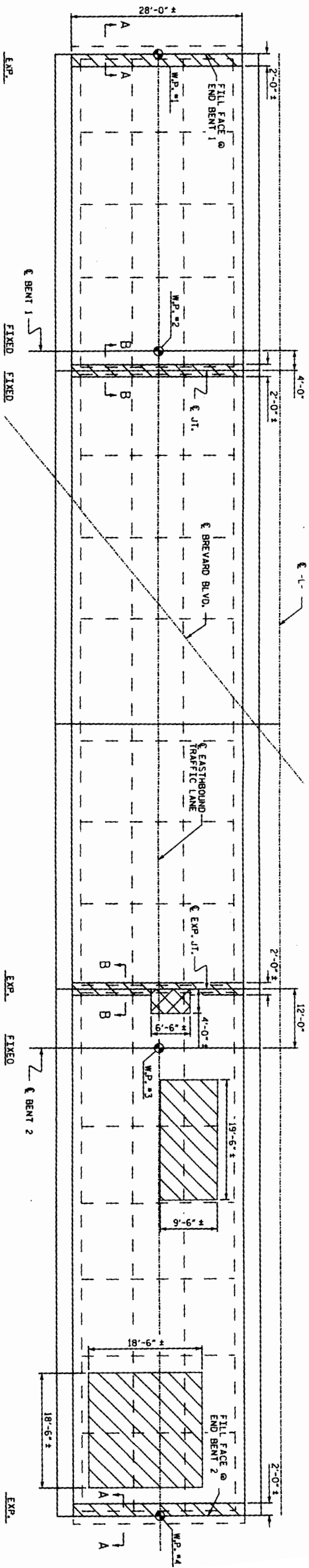
DRAWN BY: M.A. ALLEN DATE: 08-09
CHECKED BY: R.M. WRIGHT DATE: 08-09

PROJECT NO. B-5179B
BUNCOMBE COUNTY
STATION: 25+07.35 -L-
SHEET 1 OF 2

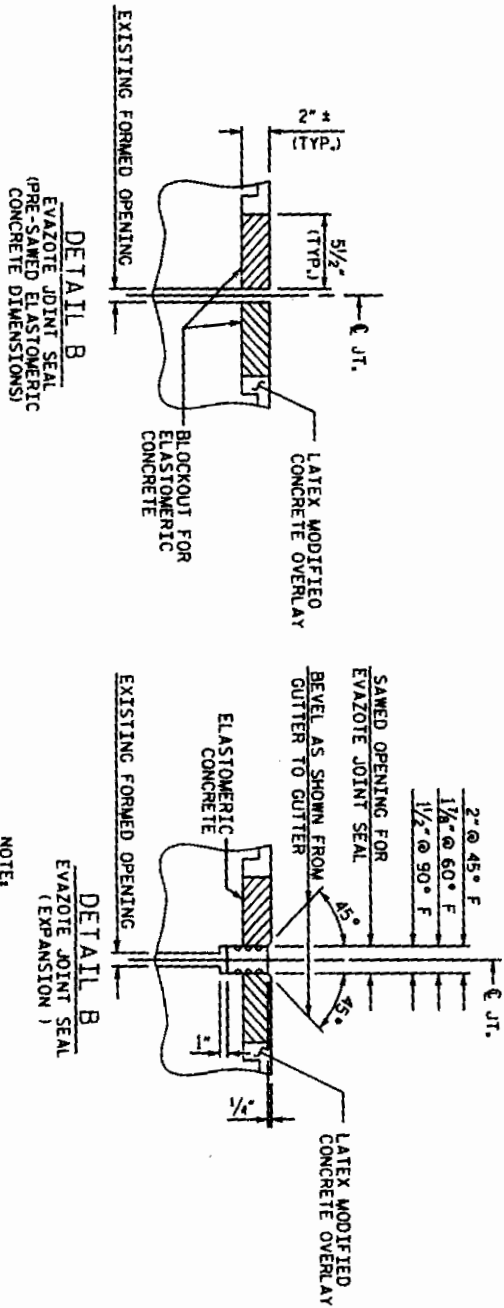
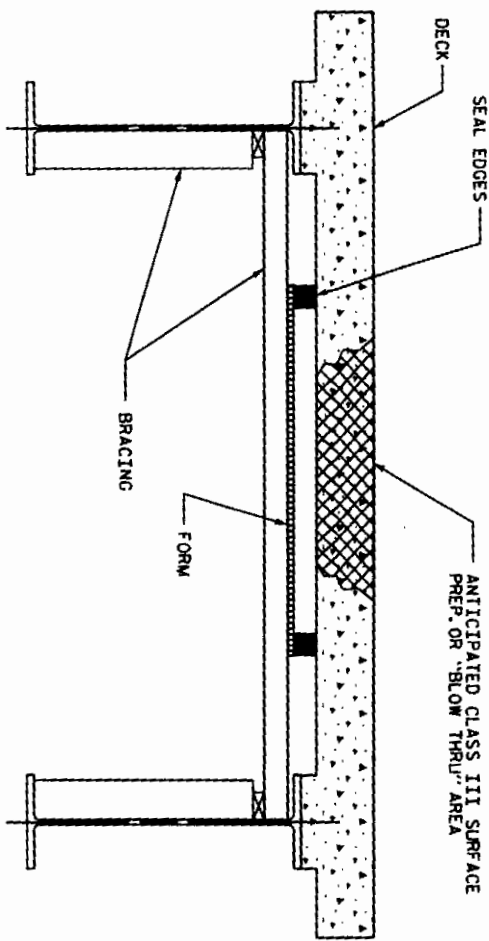
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
BUREAU
PLAN OF SPANS
FOR DECK REPAIR

DECK REHAB. FOR BRIDGE NO. 206

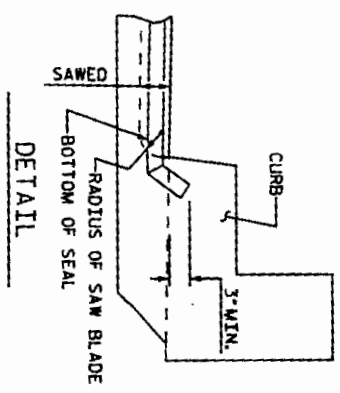
REVISIONS			
NO.	BY	DATE	DESCRIPTION
1			
2			



PLAN OF SPANS - DECK REPAIRS



NOTE:
FOR FIXED JOINT, SAW CUT WIDTH SHALL BE 1/8" AND CENTERED ABOUT THE JOINT.



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 # (CUL. 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.