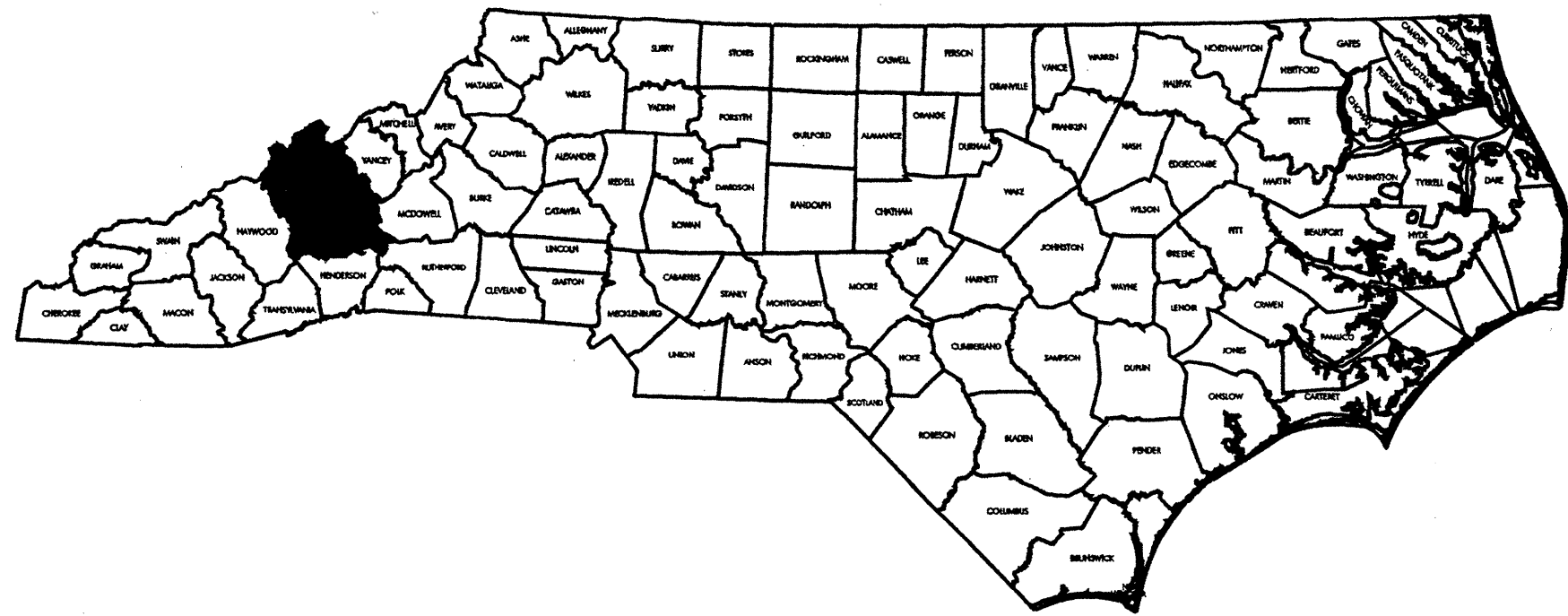


**CONTRACT NO: C202590 TIP PROJECT: B-5179B/B-5179C**

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

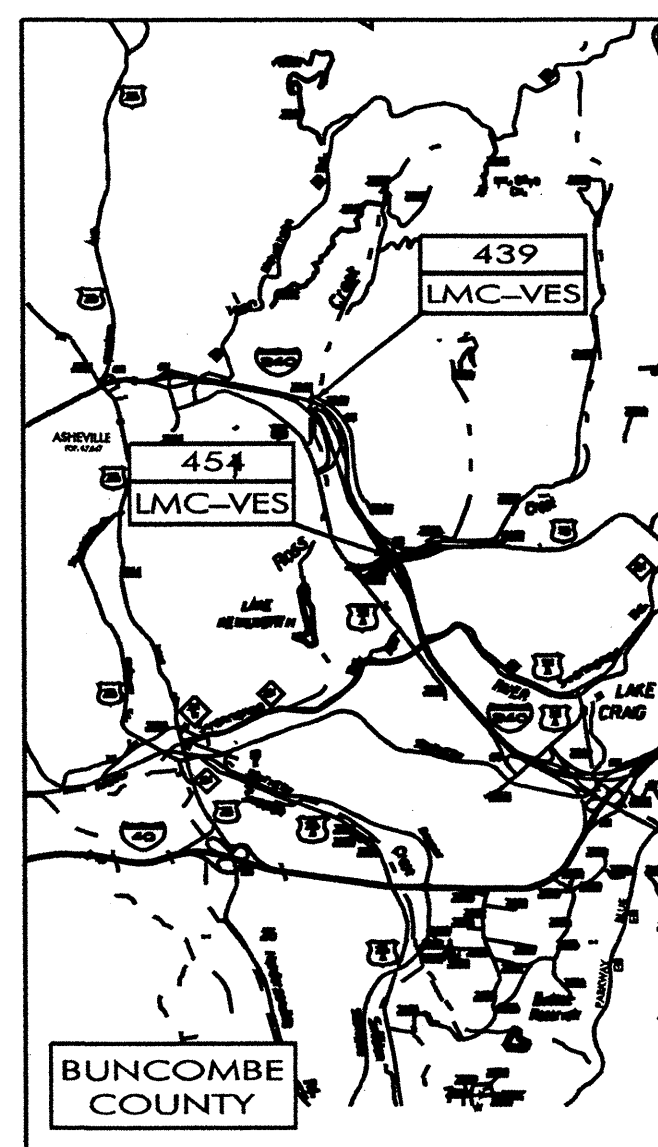
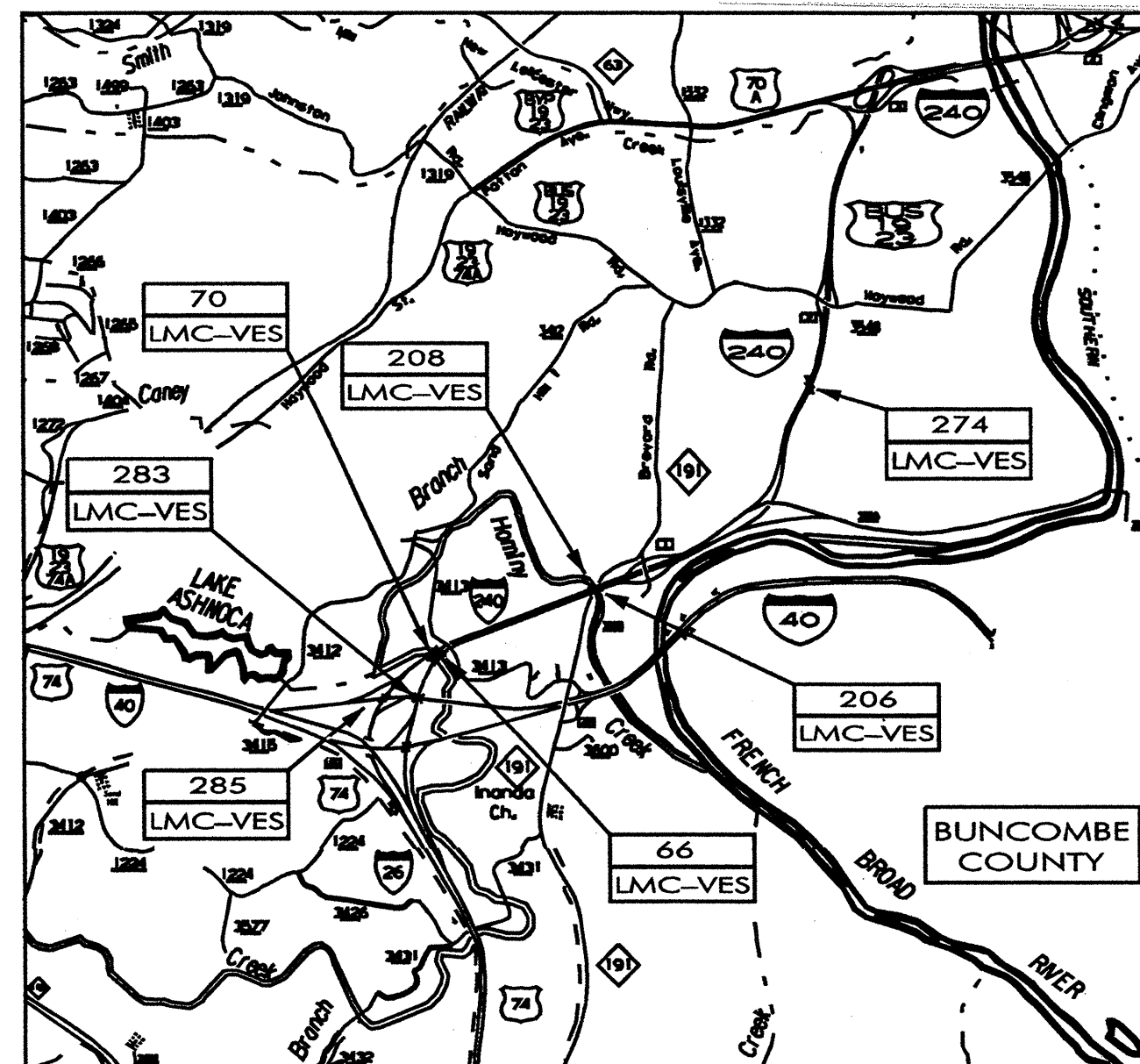
TYPE OF WORK: BRIDGE DECK PRESERVATION

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5179B / B-5179C	1	
STATE PROJECT NO.	F.A. PROJ. NO.	DESCRIPTION	
45066.1.ST1	STM-000S (631)	B5197B (PE)	
45066.3.ST2	STM-000S (594)	B5197B (CONS)	
45066.1.ST1	STM-000S (631)	B5197C (PE)	
45066.3.ST3	STM-000S (615)	B5197C (CONS)	

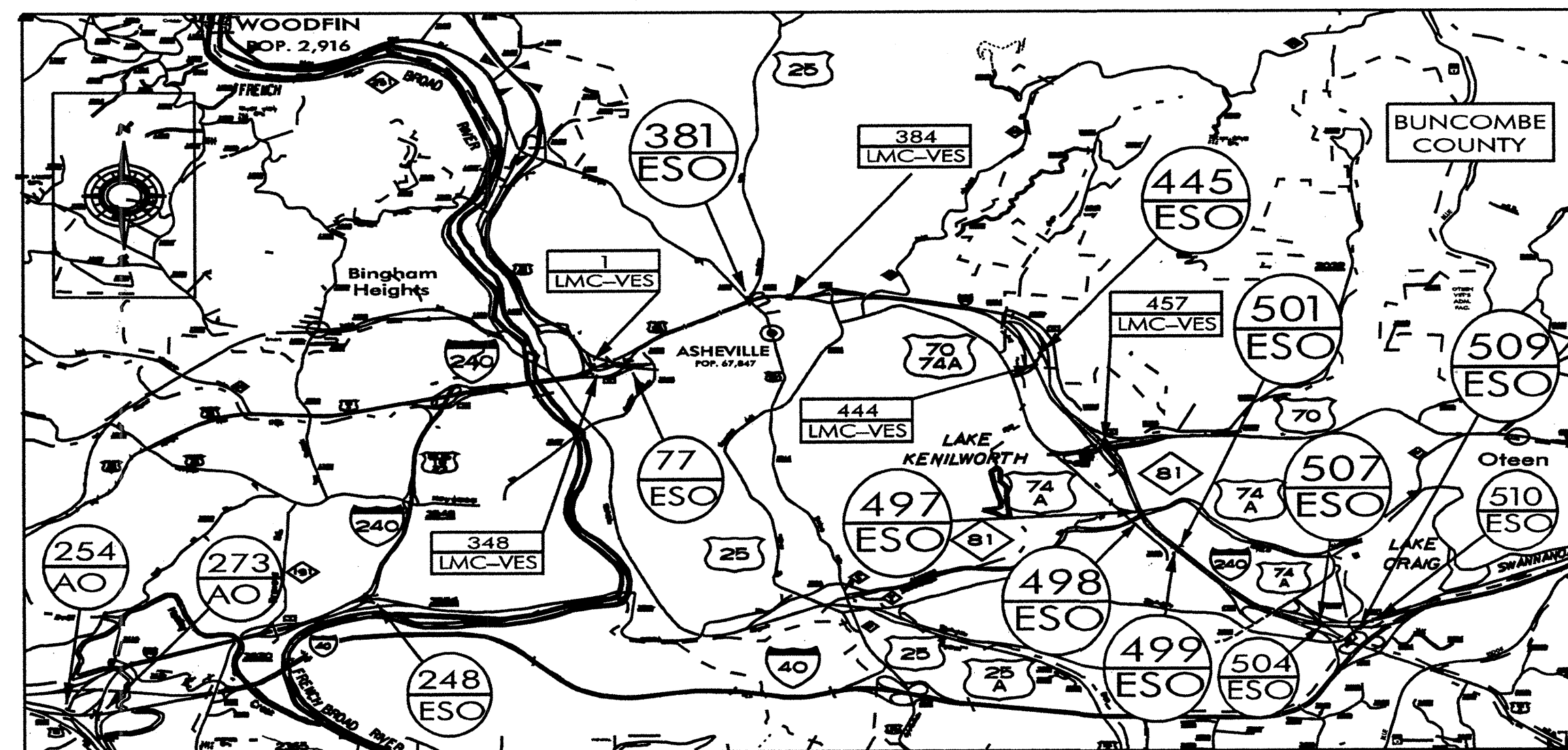
KEY:

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

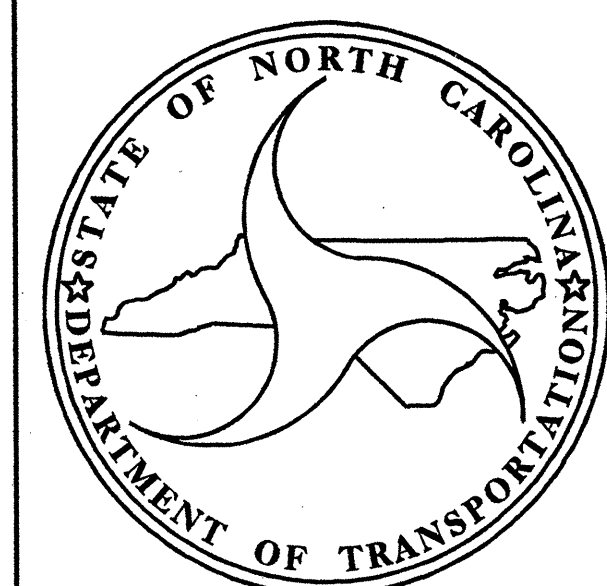
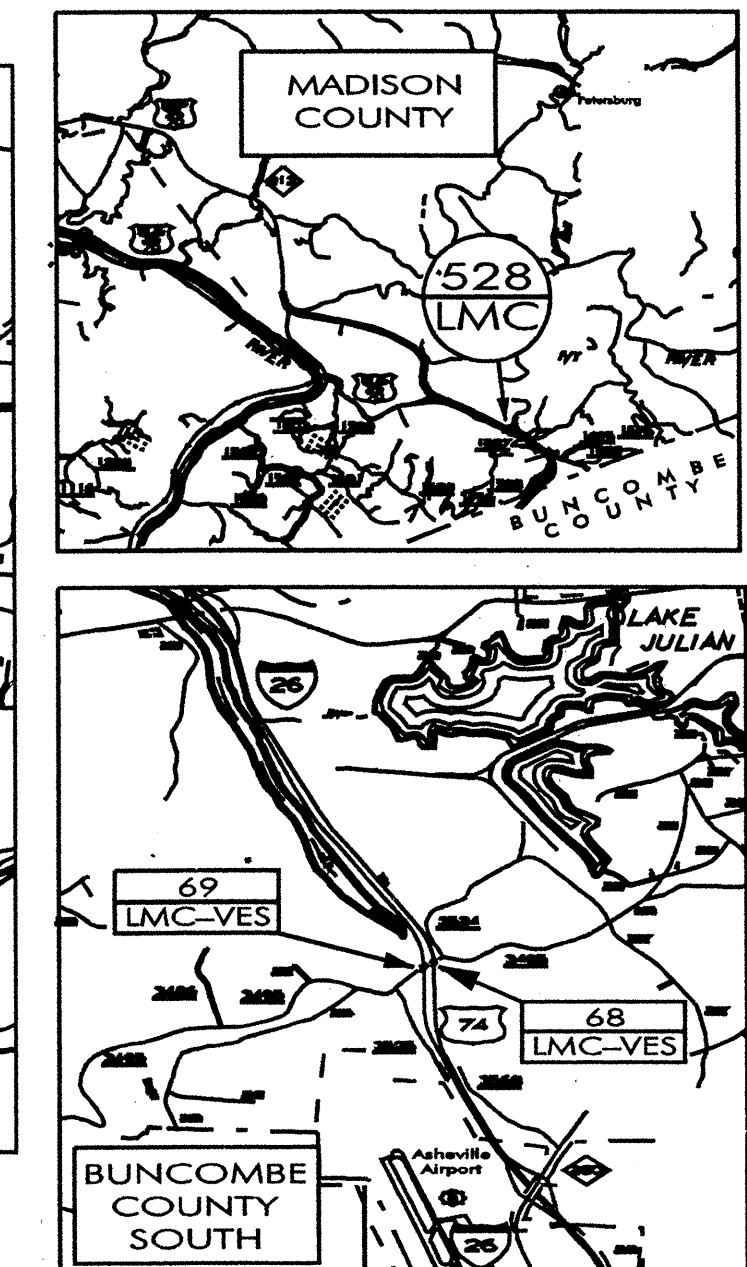
**B-5179B**



**PART 1**



**B-5179C  
PART 2**



PROJECT LENGTH

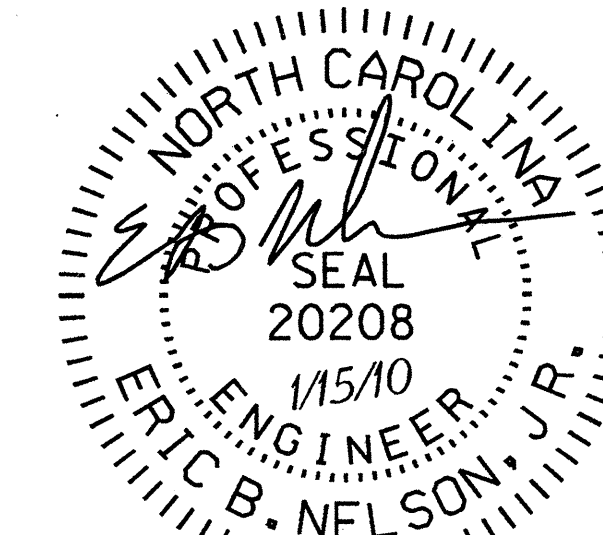
Prepared in the Office of:  
**BRIDGE MANAGEMENT UNIT**  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

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

**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

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5179B / B-5179C	1	1A
STATE PROJECT NO.	F.A. PROJ. NO.	DESCRIPTION	
45066.LST1	STM-000S (531)	B5197B (PE)	
45066.3.ST2	STM-000S (594)	B5197B (CONS)	
45066.LST1	STM-000S (531)	B5197C (PE)	
45066.3.ST3	STM-000S (615)	B5197C (CONS)	

INDEX OF SHEETS

<u>SHT #</u>	<u>DESCRIPTION</u>
1	TITLE SHEETS (B-5179B/B-5179C)
1A	INDEX OF SHEETS
2	SUMMARY OF QUANTITIES

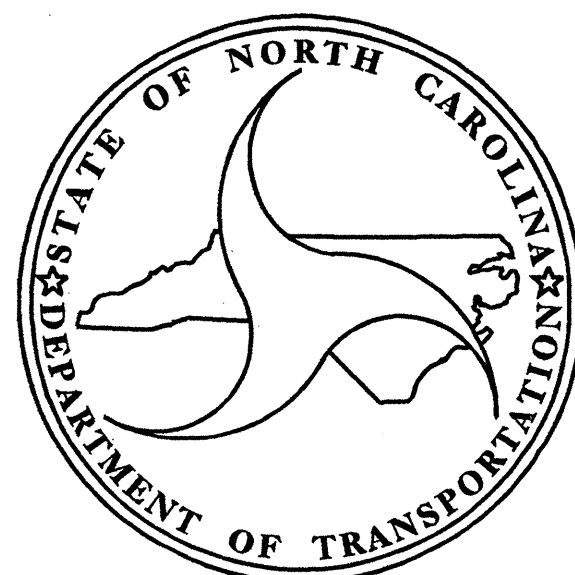
PART I

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

\$DATE\$ \$TIME\$ \$SCALE\$



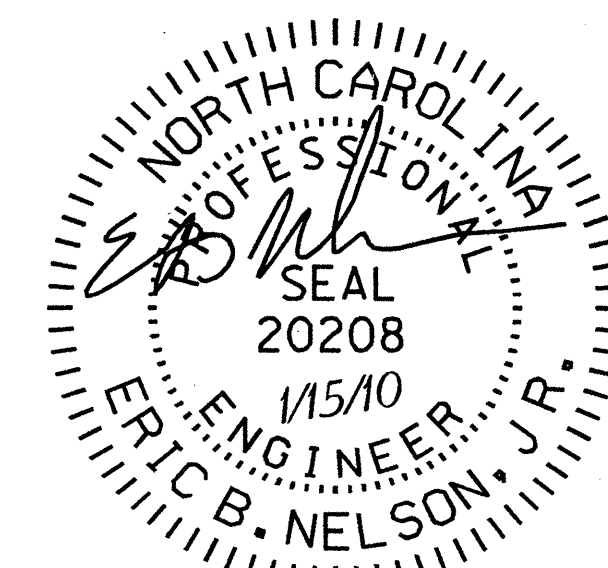
Prepared in the Office of:  
**BRIDGE MANAGEMENT UNIT**  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

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

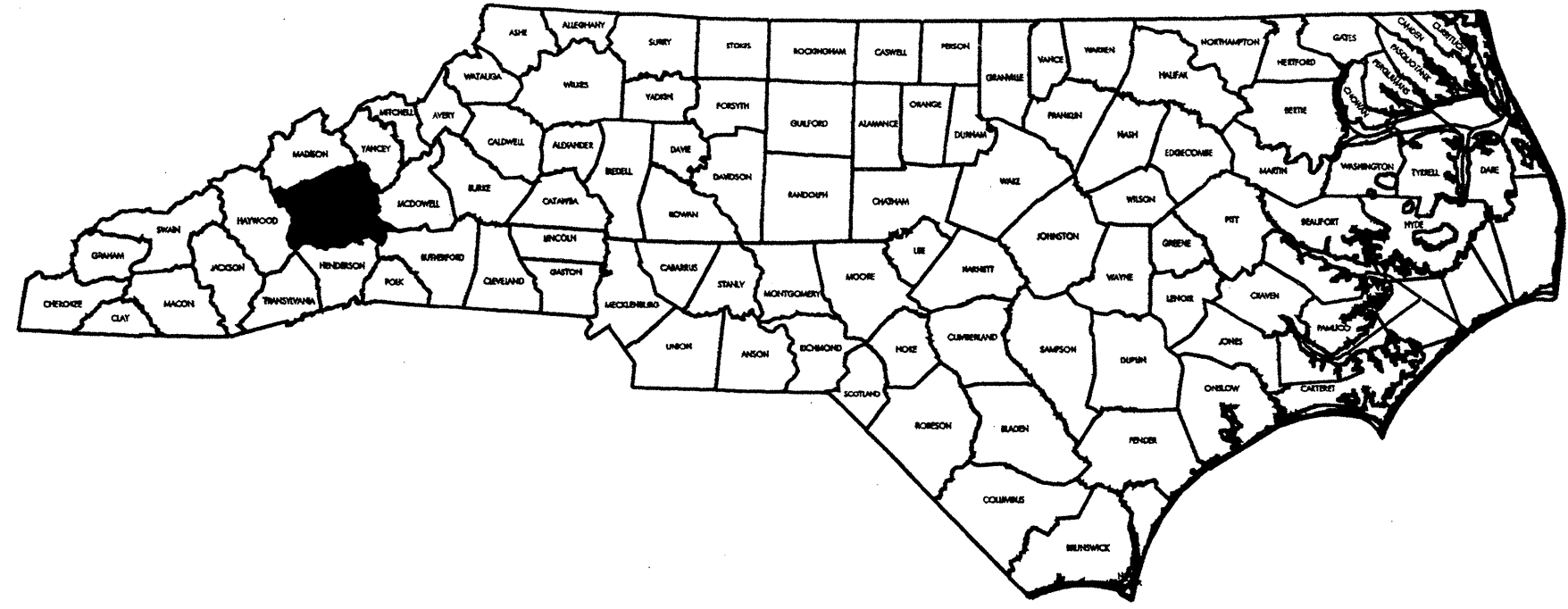
ItemNumber	Sec #	Quantity	Unit	Description	ItemNumber	Sec #	Quantity	Unit	Description
0000100000-N	800	Lump Sum		MOBILIZATION	4847000000-E	1205	14,057	LF	POLYUREA PAVEMENT MARKING LINES (4", *****) (HIGHLY REFLECTIVE ELEMENTS)
1525000000-E	610	237	TON	ASPHALT CONC SURFACE COURSE, TYPE SF9.5A	4847000000-E	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 IB, 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
4455000000-N	1150	204	MD	FLAGGER	8692000000-N	SP	Lump Sum		EVAZOTE JOINT SEALS
4465000000-N	1160	5	EA	TEMPORARY CRASH CUSHIONS	8881000000-E	SP	1,306.8	CY	GENERIC STRUCTURE ITEM LATEX MODIFIED CONC OVERLAY - VERY EARLY STRENGTH
4470000000-N	1160	5	EA	RESET TEMPORARY CRASH CUSHIONS	8892000000-E	SP	2,185	SF	GENERIC STRUCTURE ITEM CLASS II CONC DECK REPAIR FOR EPOXY/ASPHALT OVERLAY
4480000000-N	1165	12	EA	TMIA	8892000000-E	SP	175,627	SF	GENERIC STRUCTURE ITEM PLACEMENT OF EPOXY OVERLAY
4485000000-E	1170	4,210	LF	PORTABLE CONCRETE BARRIER	8893000000-E	SP	17,954	SY	GENERIC STRUCTURE ITEM HYDRO-DEMOLITION OF BRIDGE DECK
4500000000-E	1170	4,210	LF	RESET PORTABLE CONCRETE BARRIER	8893000000-E	SP	16,671	SY	GENERIC STRUCTURE ITEM PLACING & FINISHING LATEX MOD CONCRETE OVERLAY - VERY EARLY STRENGTH
4510000000-N	SP	1,404	HR	LAW ENFORCEMENT	8893000000-E	SP	17,954	SY	GENERIC STRUCTURE ITEM SCARIFYING BRIDGE DECK
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") (IV)					
4810000000-E	1205	16,013	LF	PAINT PAVEMENT MARKING LINES (4")					
4820000000-E	1205	800	LF	PAINT PAVEMENT MARKING LINES (8")					

5/28/99

\*\*\*\*\*  
SYTIME  
\*\*\*\*\*

TIP PROJECT: B-5179B

CONTRACT NO: C202590



STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
**BUNCOMBE COUNTY**

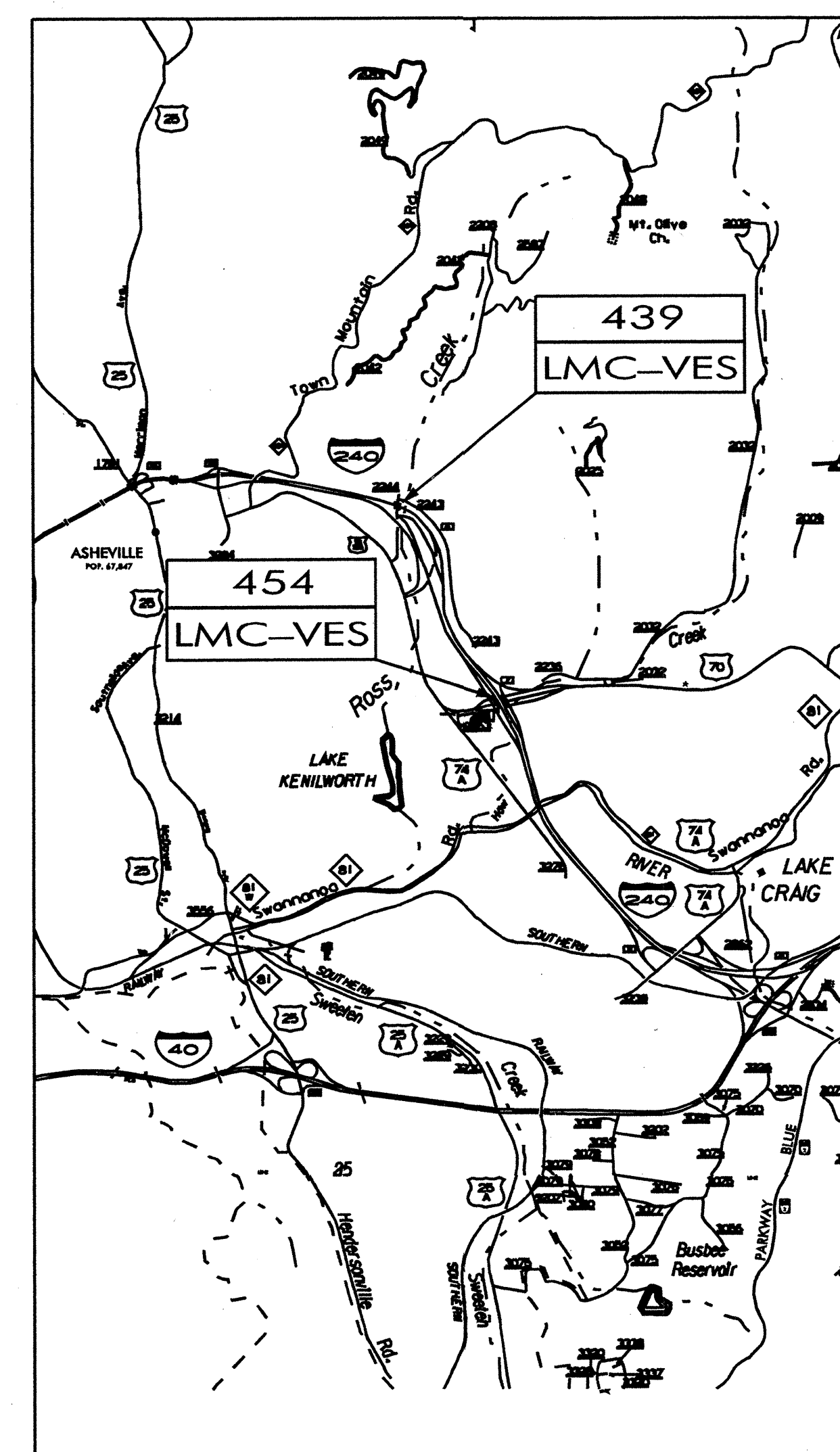
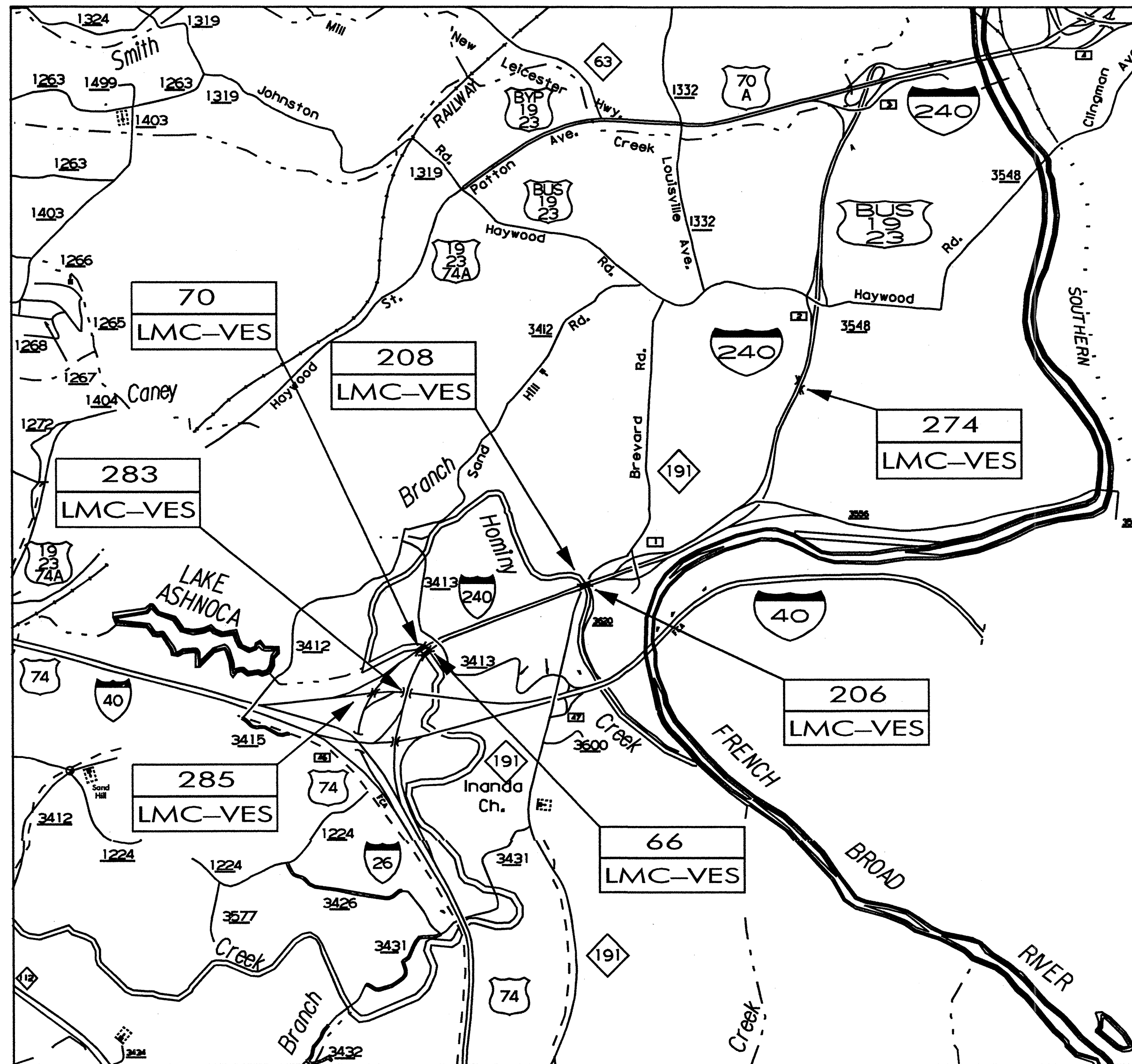
LOCATION: I-240  
TYPE OF WORK: BRIDGE DECK PRESERVATION

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5179B	1	
STATE PROJECT NO.	F.A.PROJ.NO.	DESCRIPTION	
45066.1ST1	STM-0005 (531)	PE	
45066.3ST2	STM-0005 (594)	CONSTR	

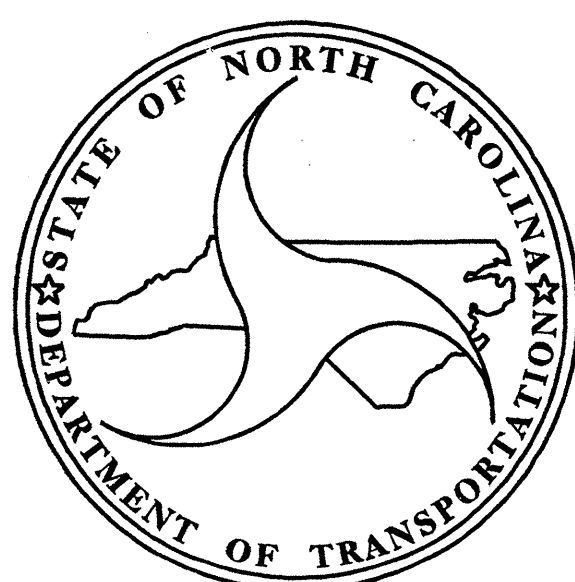
KEY:

BR#  
LMC-VES

LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH.



PART 1



PROJECT LENGTH

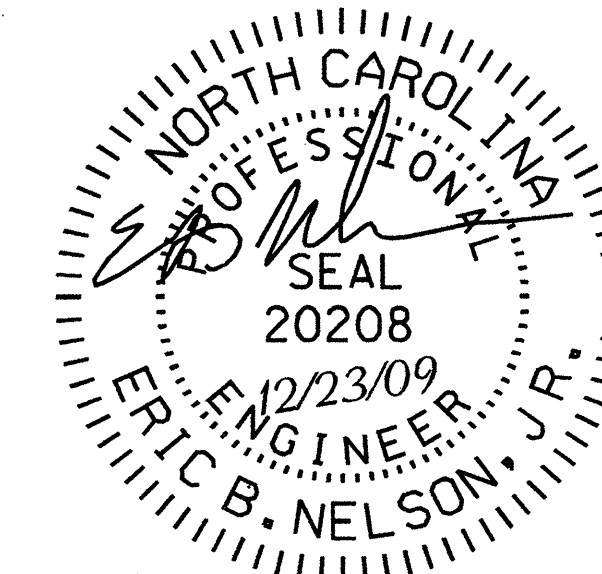
Prepared in the Office of:  
**BRIDGE MANAGEMENT UNIT**  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

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

TIP PROJECT: B-5179B

CONTRACT NO: C202590

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

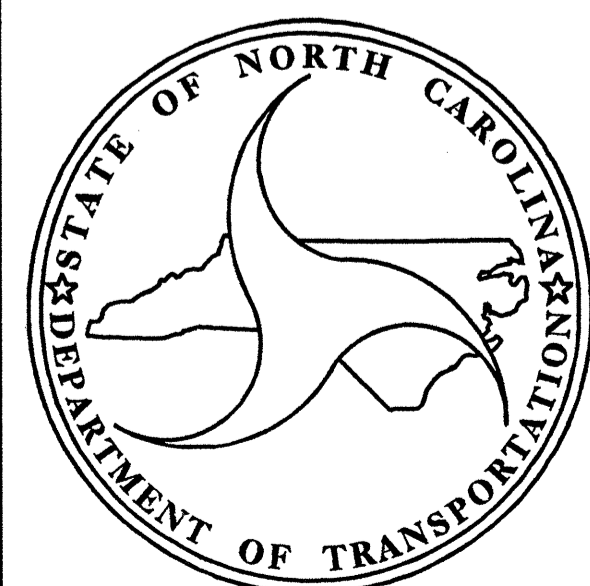
**BUNCOMBE COUNTY**

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

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5179B	1	1A
STATE PROJECT NO.	F.A. PROJ. NO.	DESCRIPTION	
45066.1.ST1	STM-000S (531)	PE	
45066.3.ST2	STM-000S (594)	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

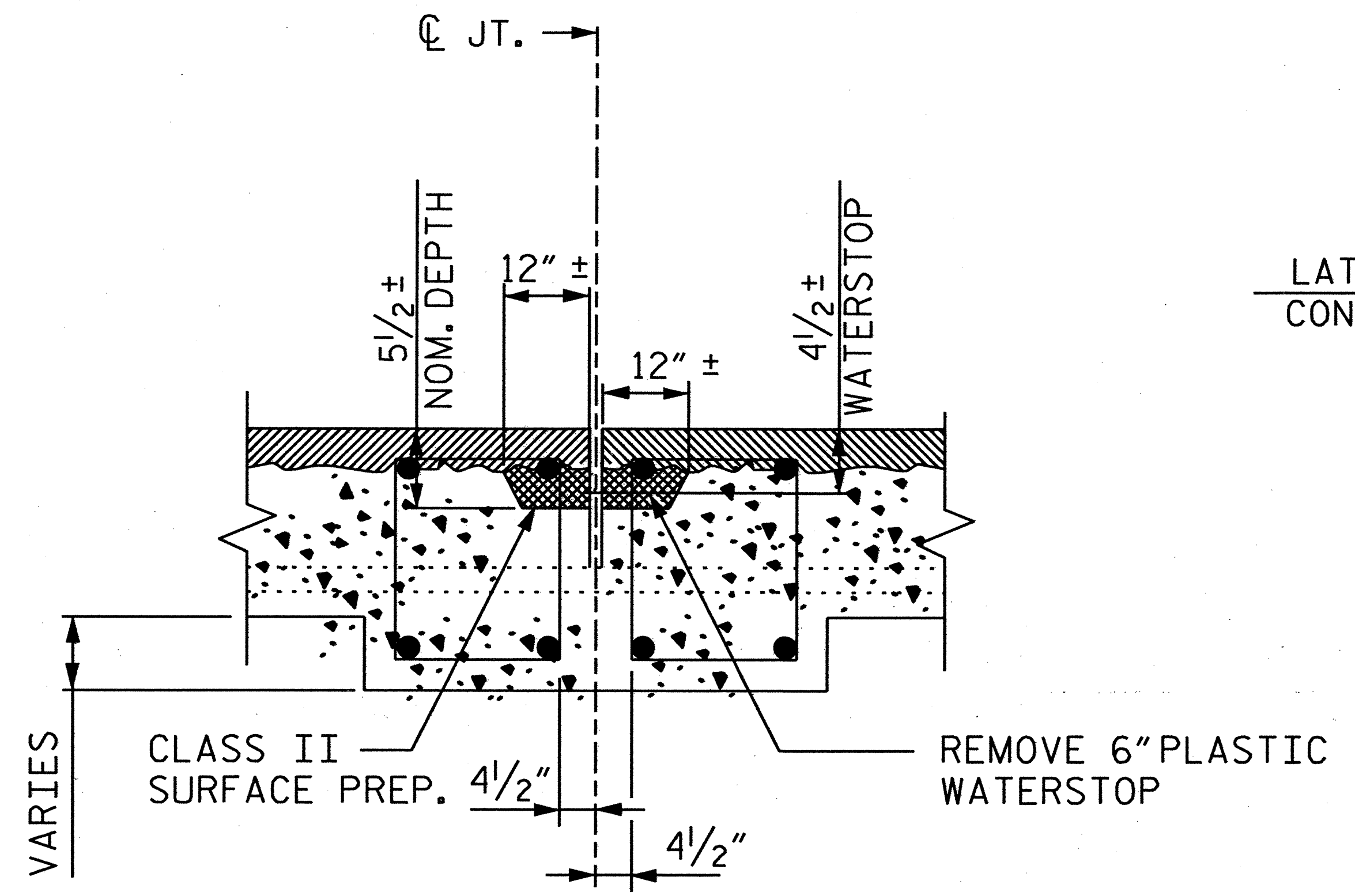
LETTING DATE:  
**MAY 18, 2010**

DAN HOLDERMAN, PE  
STATE BRIDGE  
MANAGEMENT ENGINEER

MIKE SUMMERS  
BRIDGE MANAGEMENT  
PROJECT MANAGER

NORTH CAROLINA  
PROFESSIONAL  
SEAL  
20208  
12/23/09  
ENGINEER, J.R.  
ERIC B. NELSON

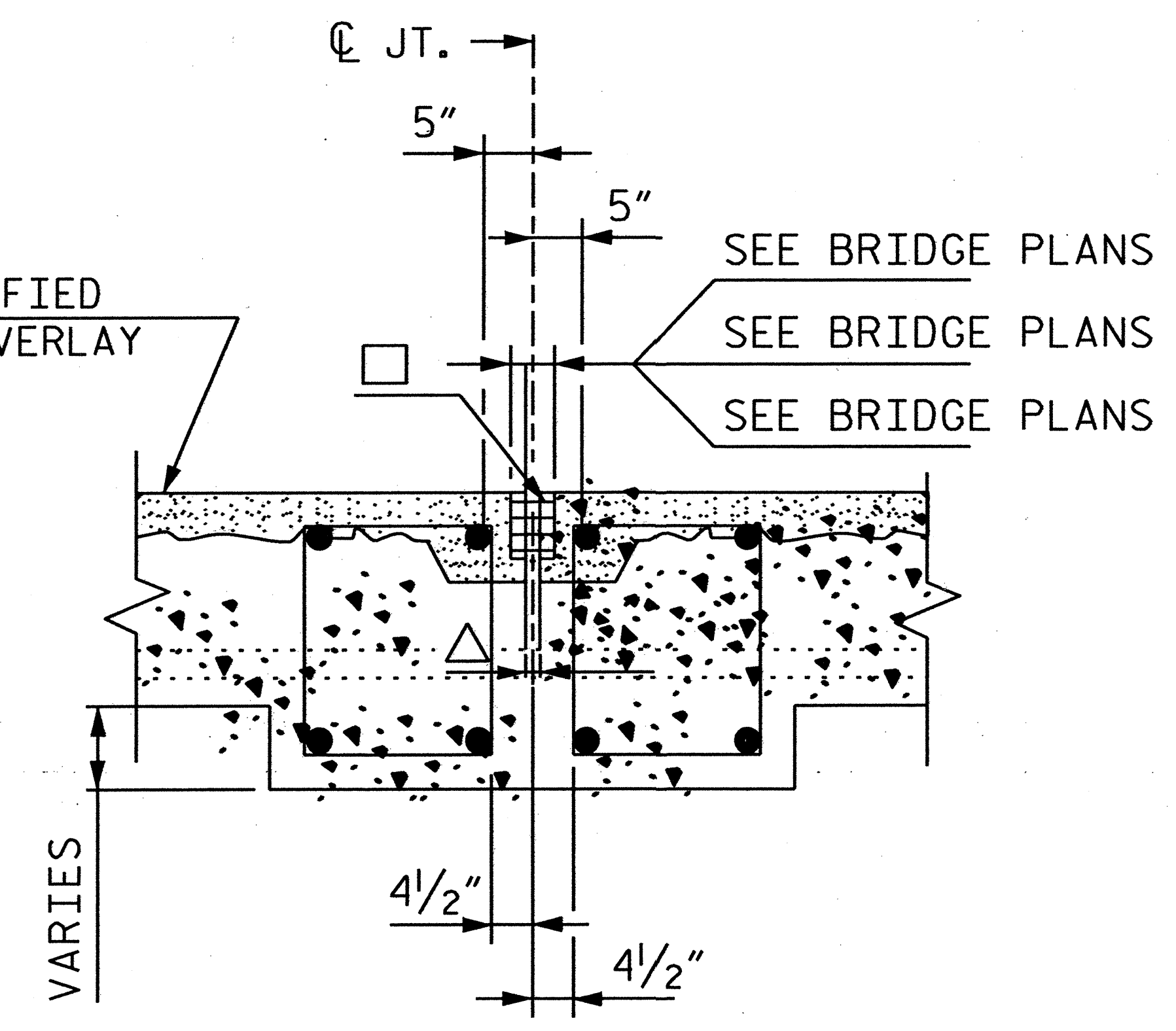
RICK NELSON, PE  
DESIGN ENGINEER



SECTION D-D  
(MINIMUM EXISTING JOINT DEMOLITION)

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

LATEX MODIFIED CONCRETE OVERLAY



SECTION D-D  
(JOINT SEAL DESIGN)

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

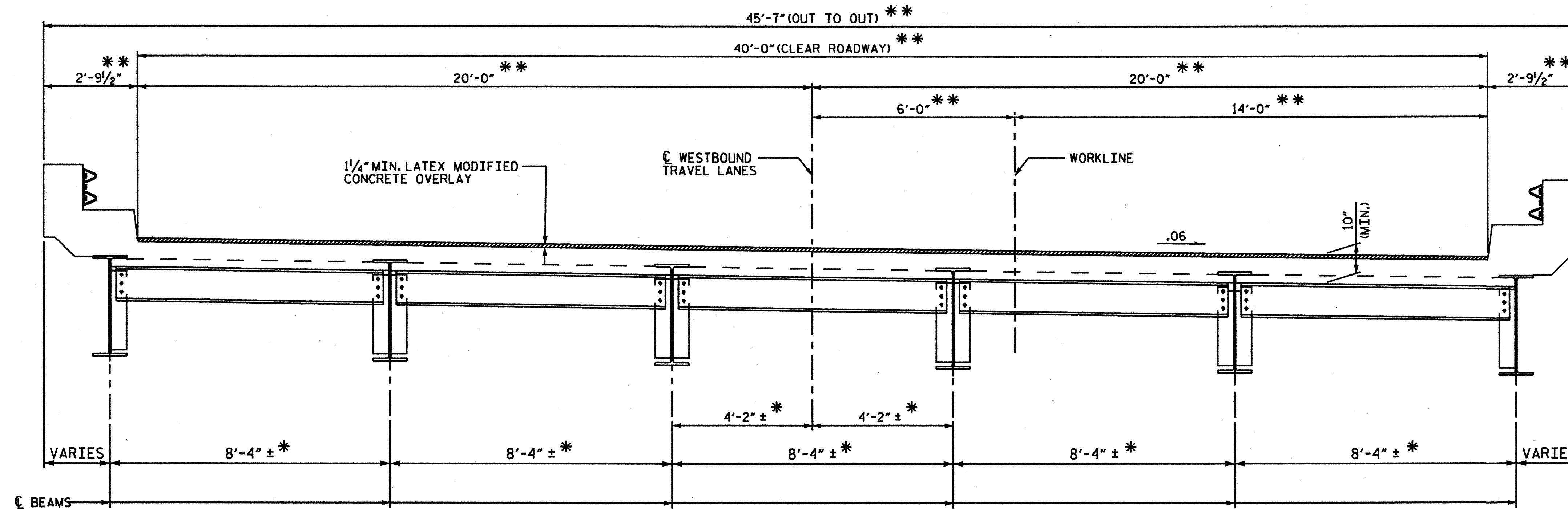
PROJECT NO. B-5179B  
BUNCOMBE COUNTY  
 STATION: \_\_\_\_\_  
 SHEET    OF   

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

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH						SHEET NO.
ALTERNATE JOINT DETAIL						
REVISIONS						TOTAL SHEETS
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			4
2			4			
NC005						

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

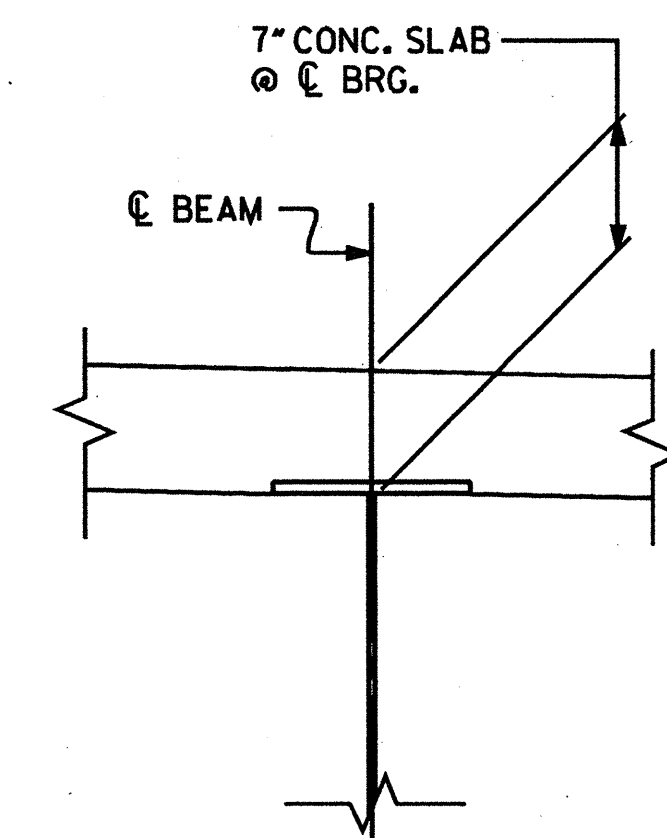
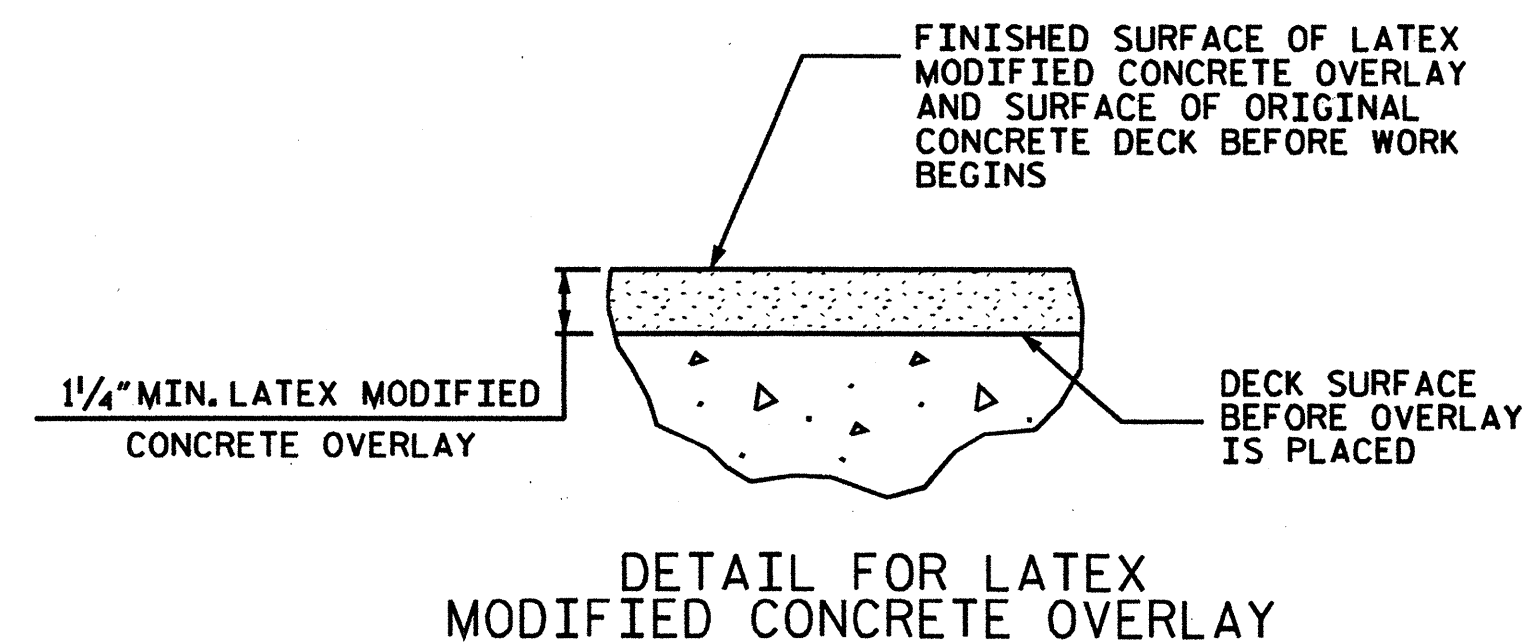
\*\*\*\*\*SYTIME\*\*\*\*\*  
 \*\*\*\*\*D\*\*\*\*\*  
 \*\*\*\*\*USER\*\*\*\*\*



TYP. SECTION

(SHOWING DIAPHRAGMS AT EXPANSION JOINTS)

- \* ALONG THE SKEW AT END BENTS
- \*\* RADIAL DIMENSIONS



EXIST. SLAB SECTION

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.
- THE BRIDGE DECK SHALL BE TINED. NO SEPARATE PAYMENT SHALL BE MADE FOR BRIDGE DECK TINGING AS THIS IS CONSIDERED INCIDENTAL TO THE PAY ITEM FOR "PLACING AND FINISHING OF LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH".
- FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.
- FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

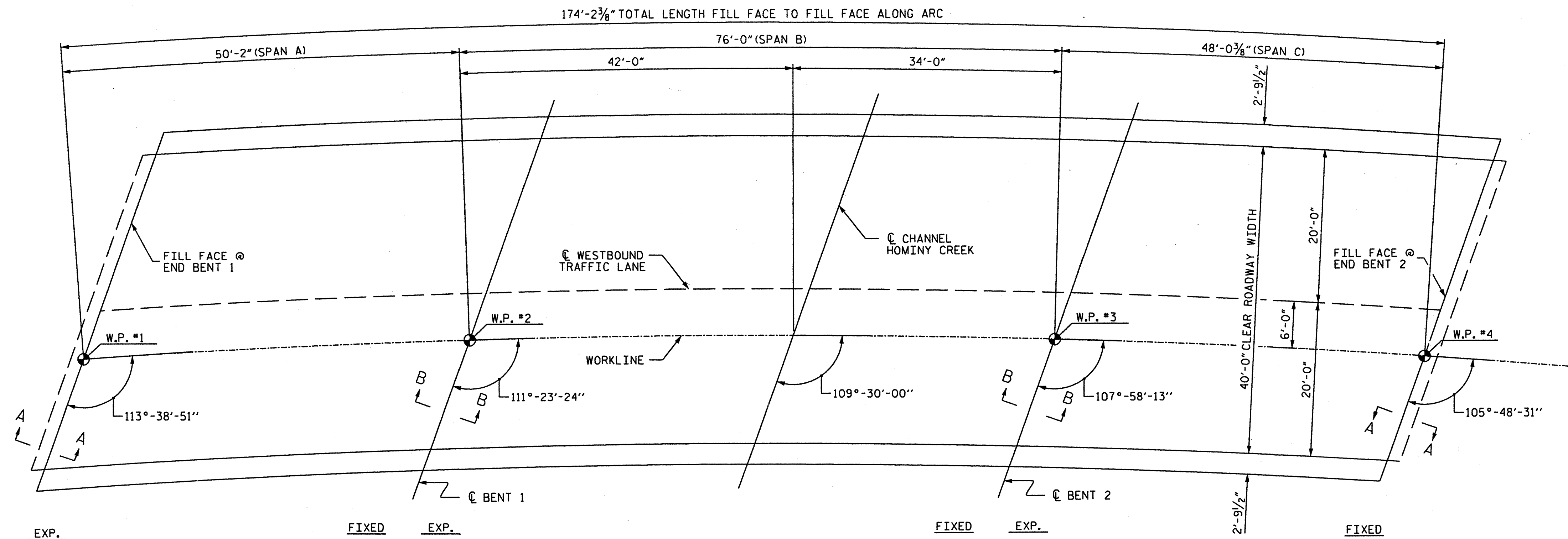
PROJECT NO. B-5179B  
BUNCOMBE COUNTY  
 STATION: 623+09.00 -L-

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 TYPICAL SECTION

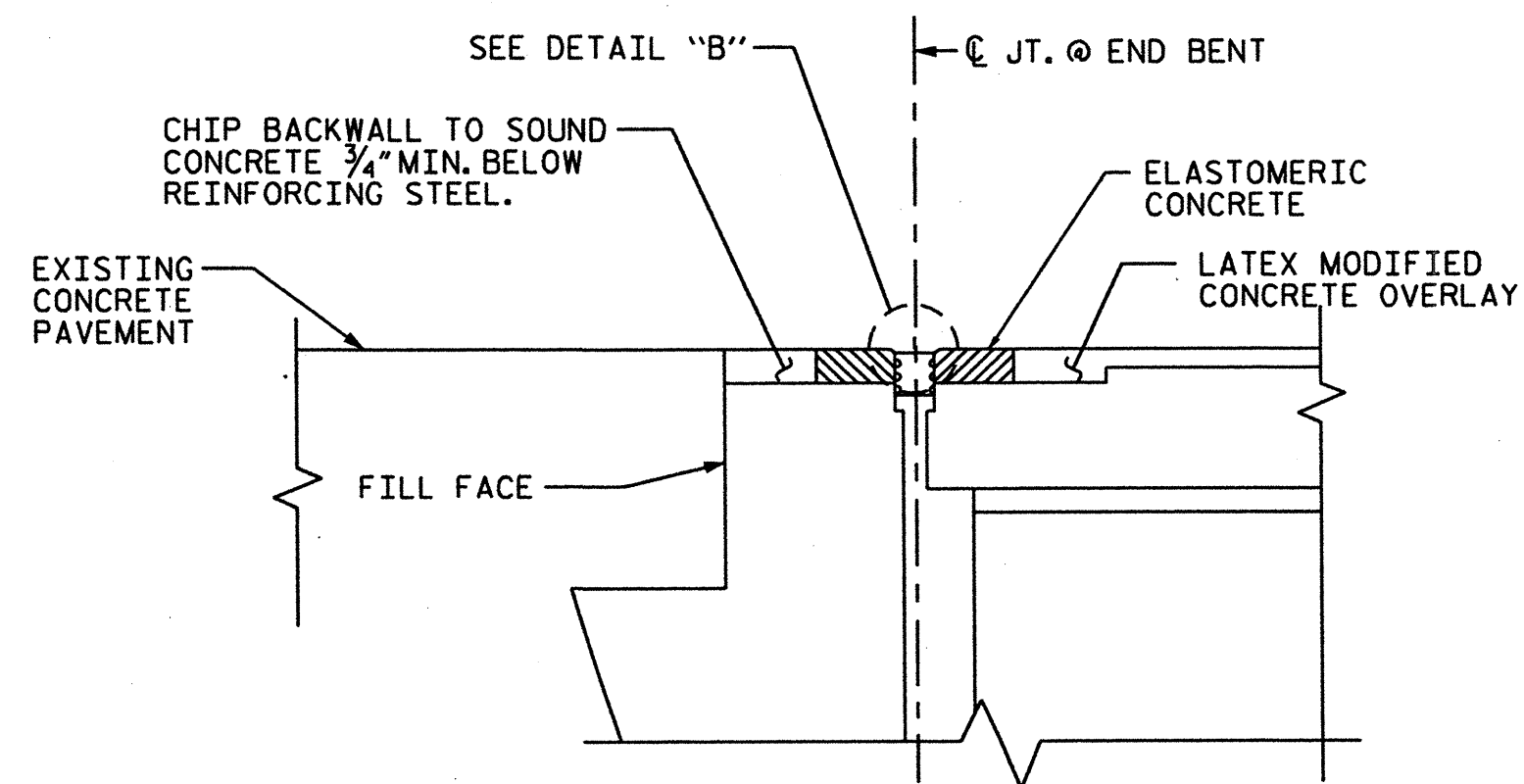
DECK REHAB. FOR BRIDGE NO. 66

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	S-1
1			3			TOTAL SHEETS 28
2			4			

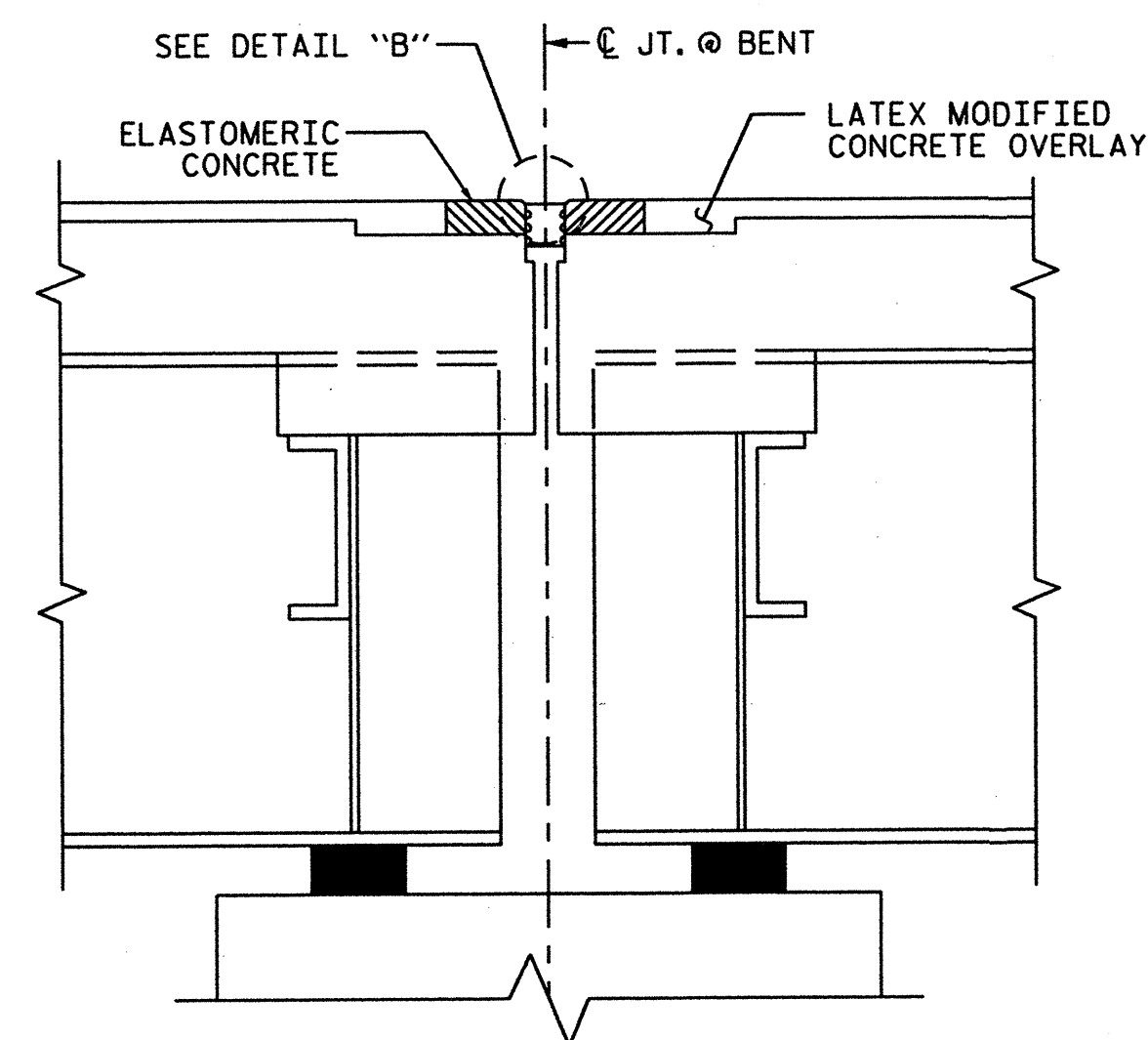
DRAWN BY : M.A. ALLEN DATE : 08-09  
 CHECKED BY : R.W. WRIGHT DATE : 08-09



PLAN OF SPANS



SECTION A-A  
(PROPOSED JOINT REPLACEMENT DETAIL)



SECTION B-B  
(PROPOSED JOINT REPLACEMENT DETAIL)

PROJECT NO. B-5179B  
BUNCOMBE COUNTY  
 STATION: 623+09.00 -L-

SHEET 1 OF 2

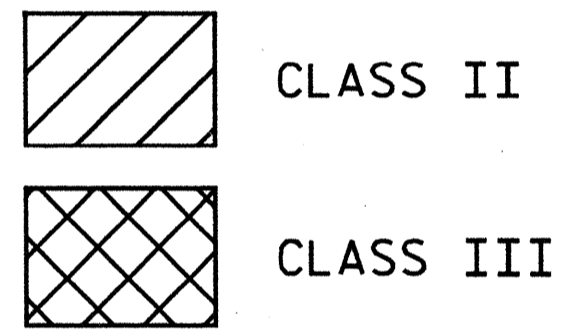
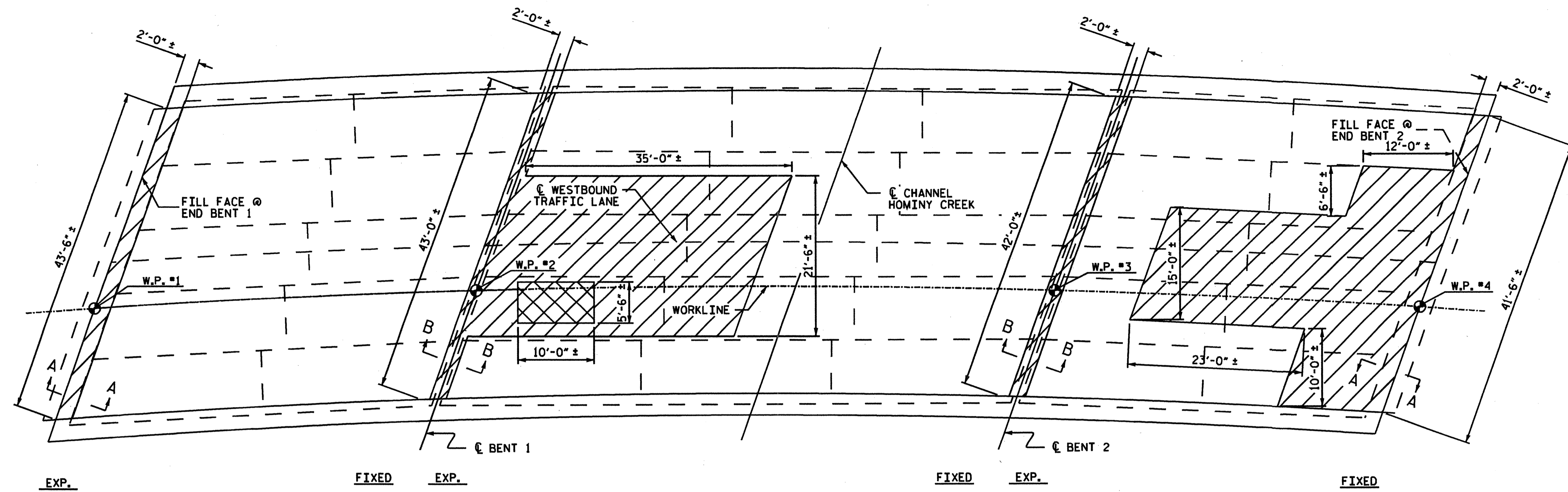
TOTAL BILL OF MATERIAL									
SCARIFYING BRIDGE DECK	CLASS I* SURFACE PREPARATION	CLASS II* SURFACE PREPARATION	CLASS III* SURFACE PREPARATION	UNDER DECK* CONTAINMENT	HYDRO-DEMOLITION OF BRIDGE DECK	CLASS AA* CONCRETE	LATEX MODIFIED CONCRETE OVERLAY-VERY EARLY STRENGTH	PLACING AND FINISHING LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH	EVAZOTE JOINT SEALS
SO. YDS.	SO. YDS.	SO. YDS.	SO. YDS.	SO. FT.	SO. YDS.	CU. YDS.	CU. YDS.	SO. YDS.	LUMP SUM
775	527	242	6	54	775	1	54	775	LUMP SUM

\* QUANTITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.

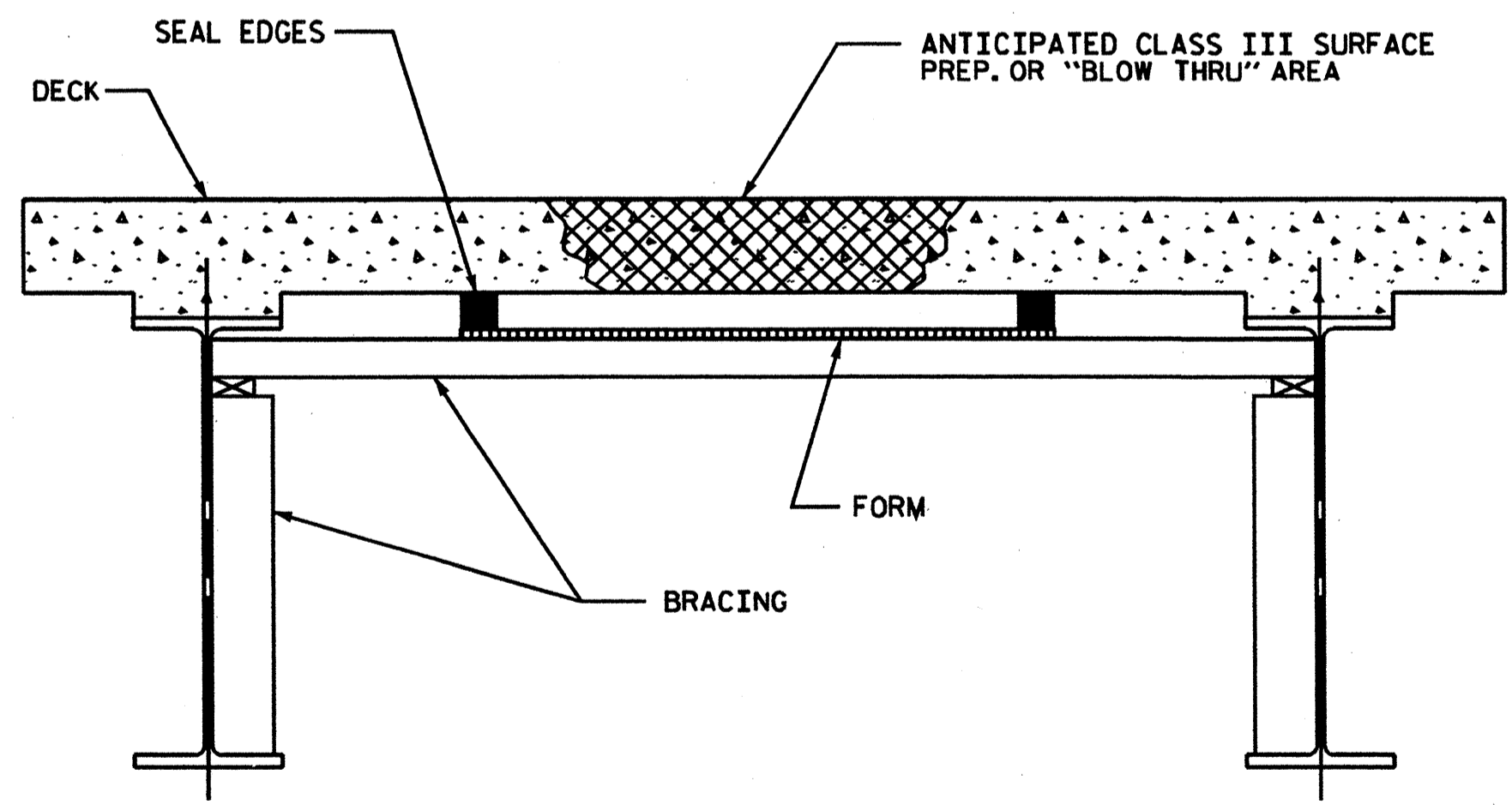
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH				
PLAN OF SPANS FOR DECK REPAIR				
DECK REHAB. FOR BRIDGE NO. 66				
REVISIONS				SHEET NO.
NO.	BY:	DATE:	NO.	DATE:
1			3	
2			4	
				S-2
				TOTAL SHEETS 28

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



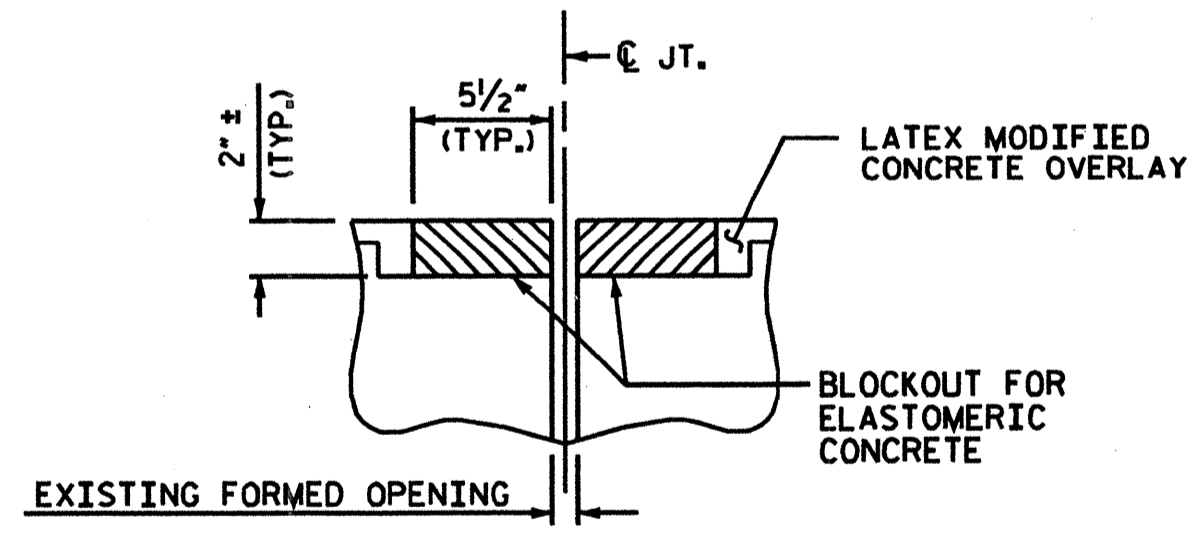


PLAN OF SPANS - DECK REPAIRS

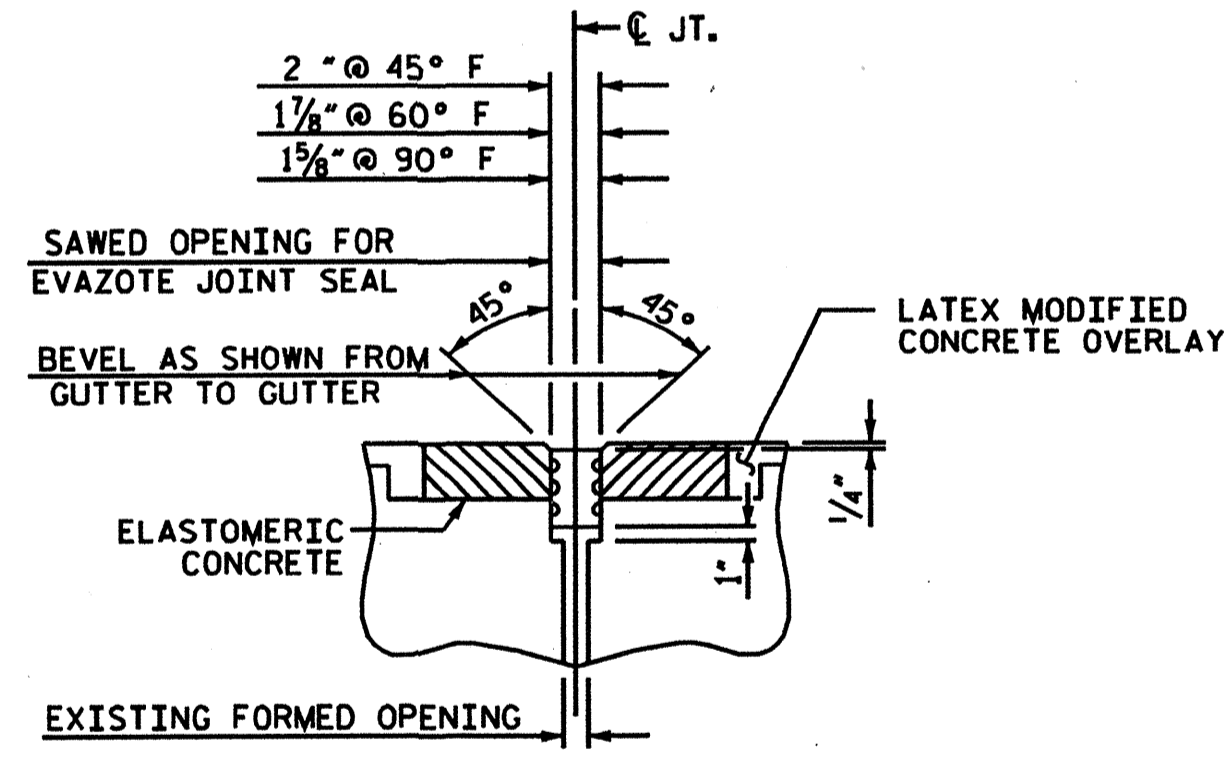


TYP. "BLOW THRU" CONTAINMENT AND FORMWORK

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.

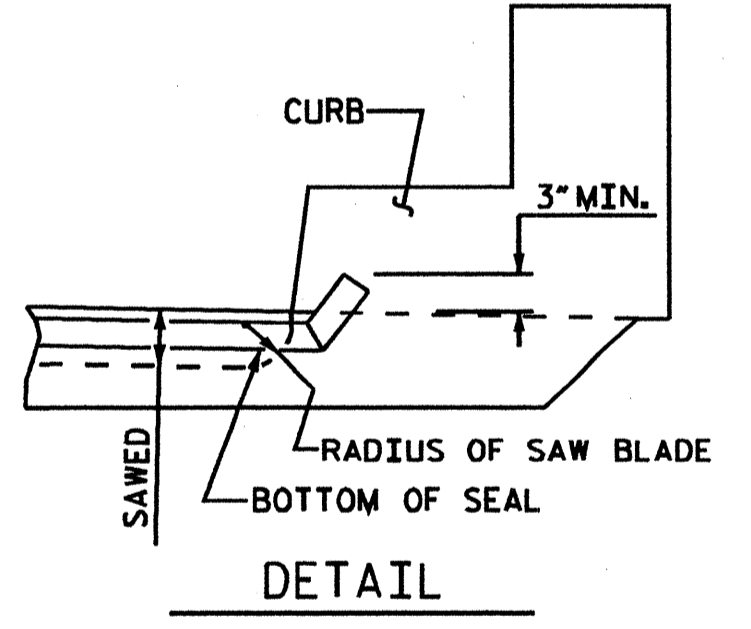


DETAIL B  
 EVAZOTE JOINT SEAL  
 (PRE-SAWED ELASTOMERIC  
 CONCRETE DIMENSIONS)



DETAIL B  
 EVAZOTE JOINT SEAL  
 (EXPANSION)

NOTE:  
 FOR FIXED JOINT, SAW CUT WIDTH SHALL BE 1 1/4" AND CENTERED ABOUT THE JOINT.



DETAIL

ELASTOMERIC CONCRETE	
BENT NO.	ELASTOMERIC CONCRETE * (CU. FT.)
E.B. 1	6.5
BENT 1	6.5
BENT 2	6.5
E.B. 2	6.5
TOTAL	26.0

\* BASED ON THE MINIMUM BLOCKOUT SHOWN.

PROJECT NO. B-5179B  
BUNCOMBE COUNTY  
 STATION: 623+09.00 -L-

SHEET 2 OF 2

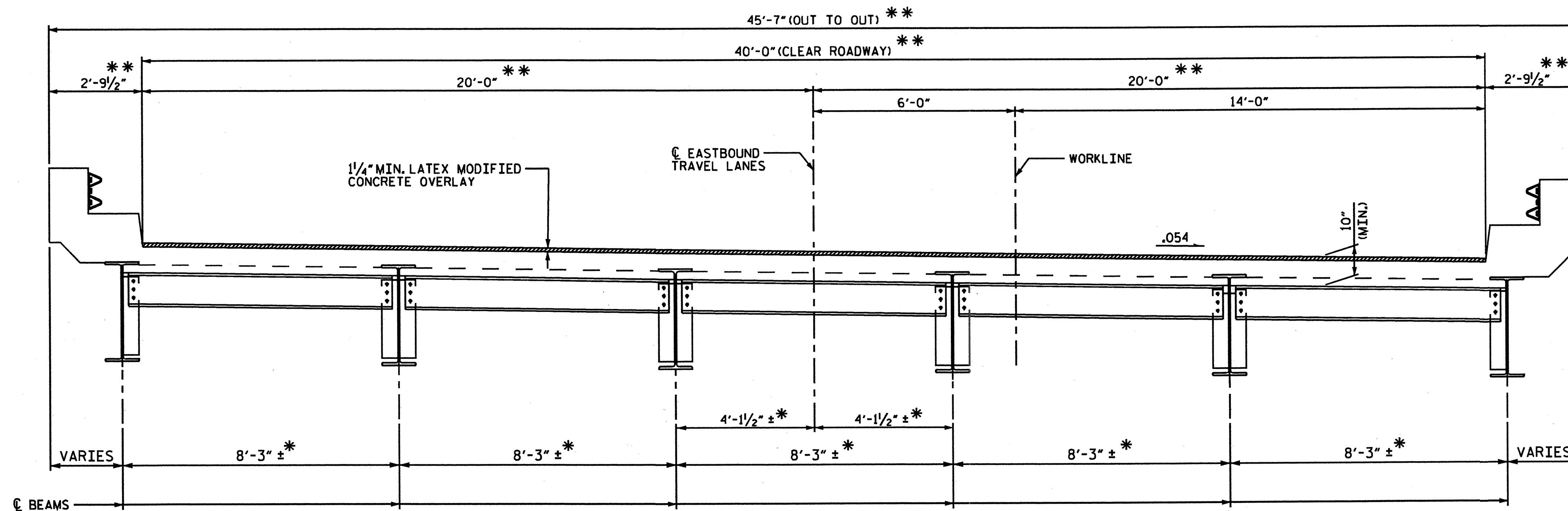
STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

PLAN OF SPANS  
 FOR DECK REPAIR

DECK REHAB. FOR BRIDGE NO. 66

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	S-3
1			3			TOTAL SHEETS 28
2			4			

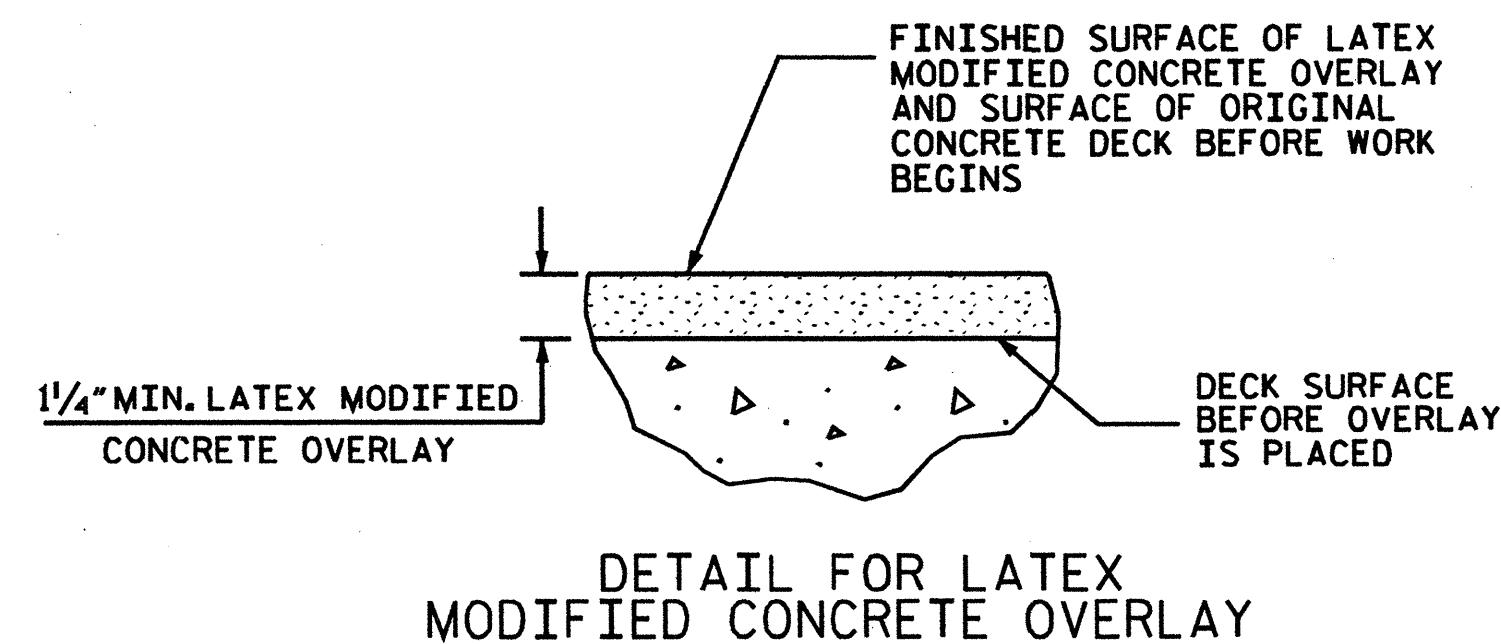
DRAWN BY: M.A. ALLEN DATE: 08-09  
 CHECKED BY: R.W. WRIGHT DATE: 08-09



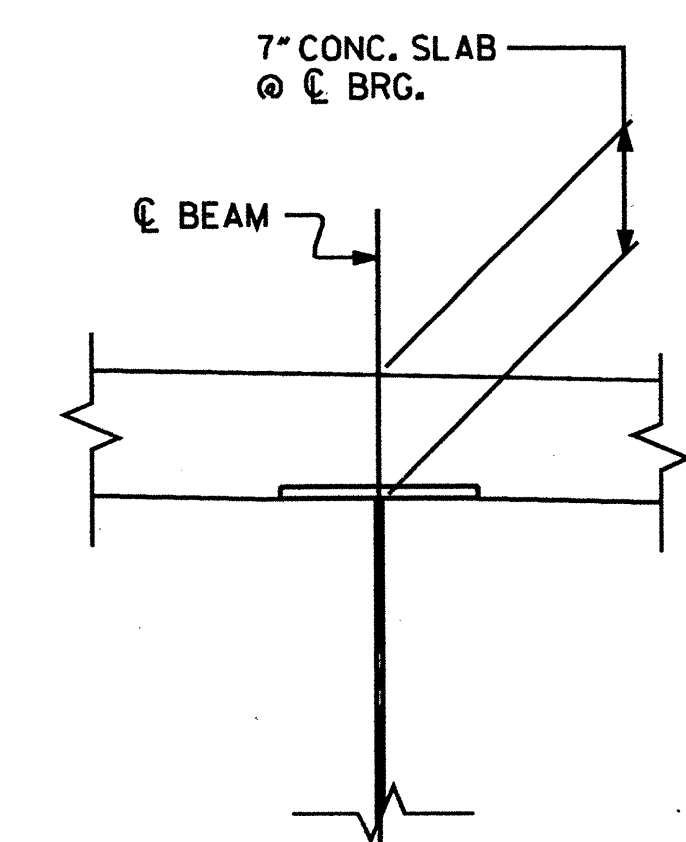
**TYP. SECTION**

(SHOWING DIAPHRAGMS AT EXPANSION JOINTS)

- \* ALONG THE SKEW AT END BENTS
- \*\* RADIAL DIMENSIONS



**DETAIL FOR LATEX MODIFIED CONCRETE OVERLAY**



**EXIST. SLAB SECTION**

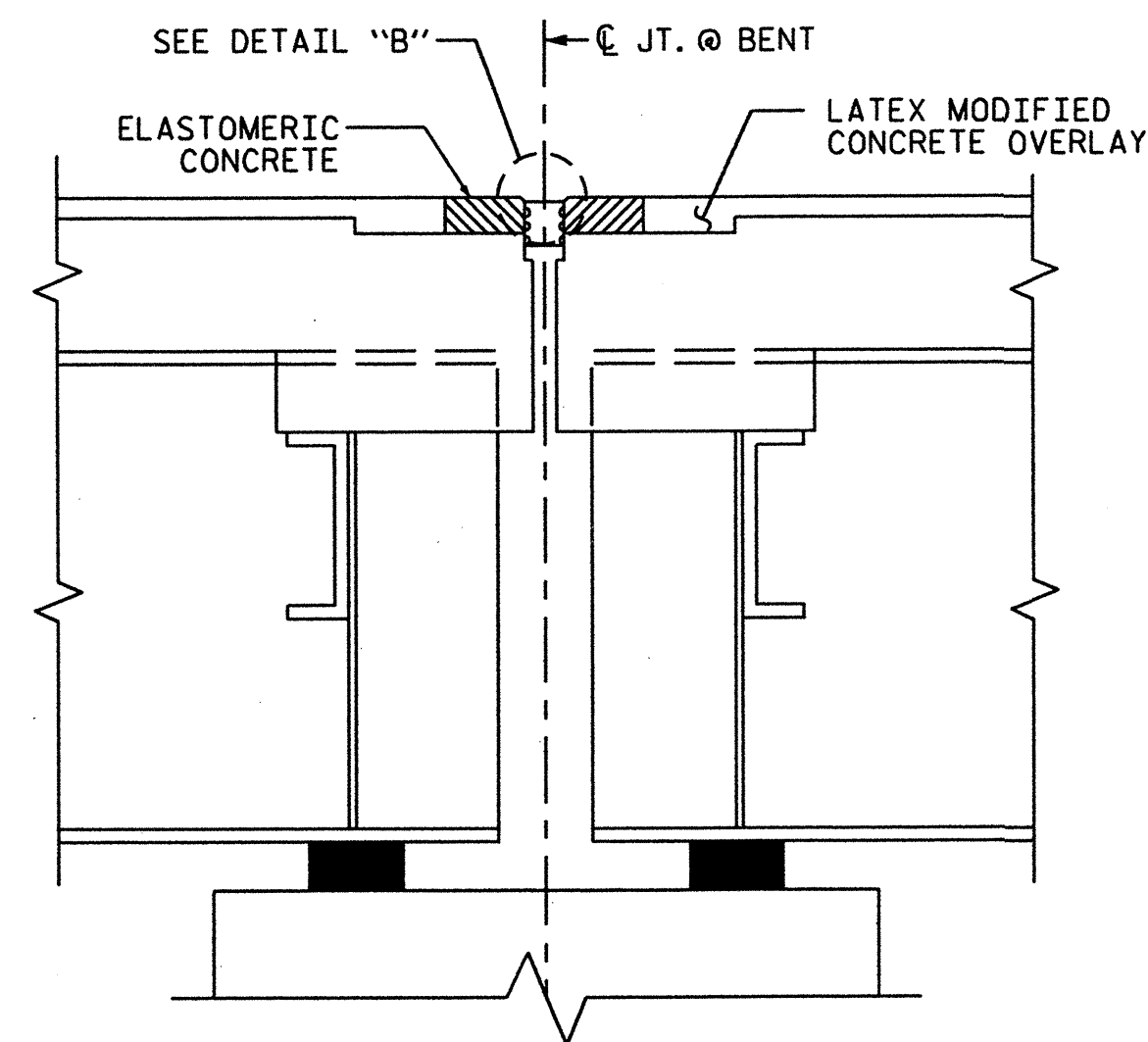
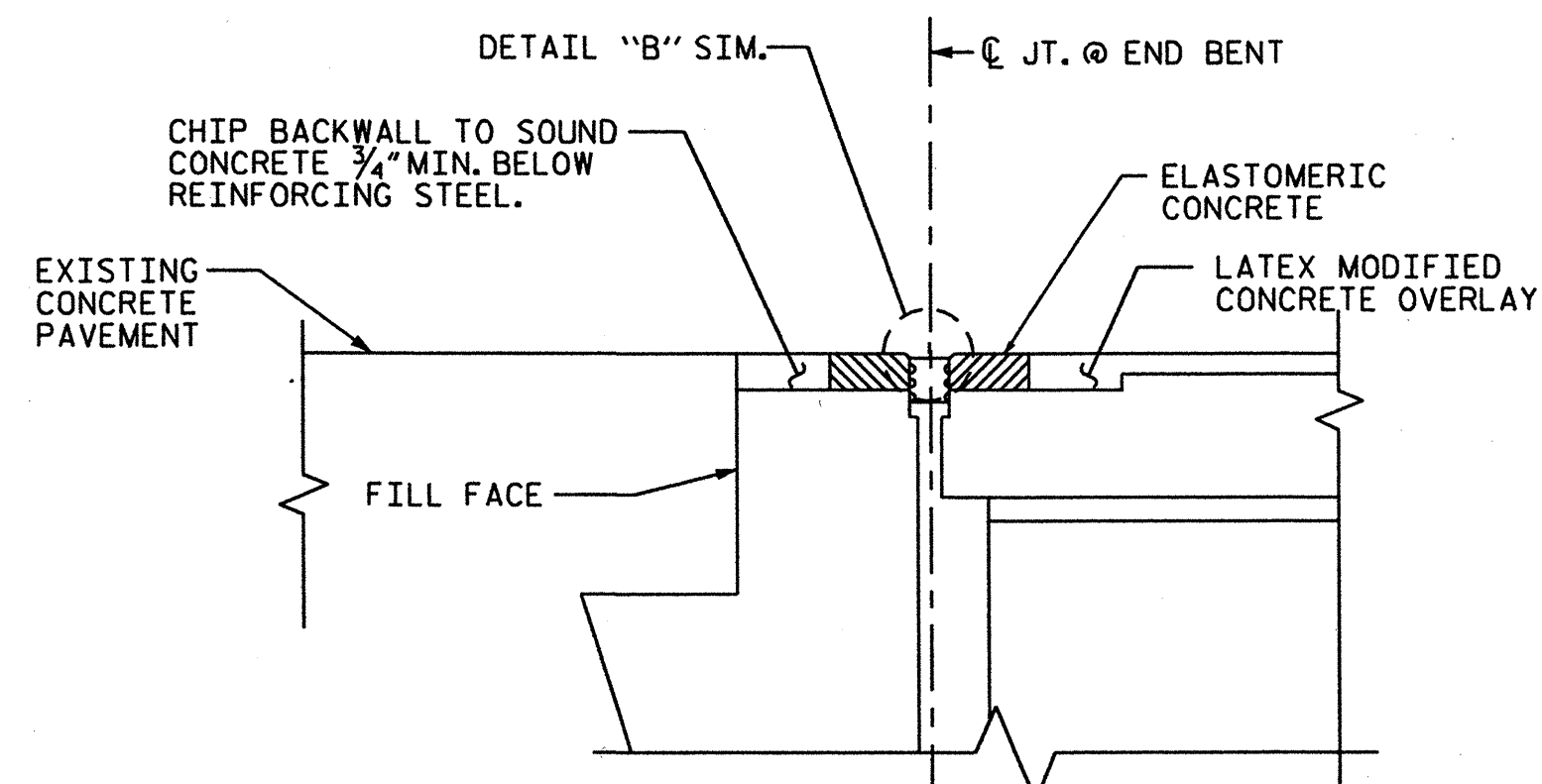
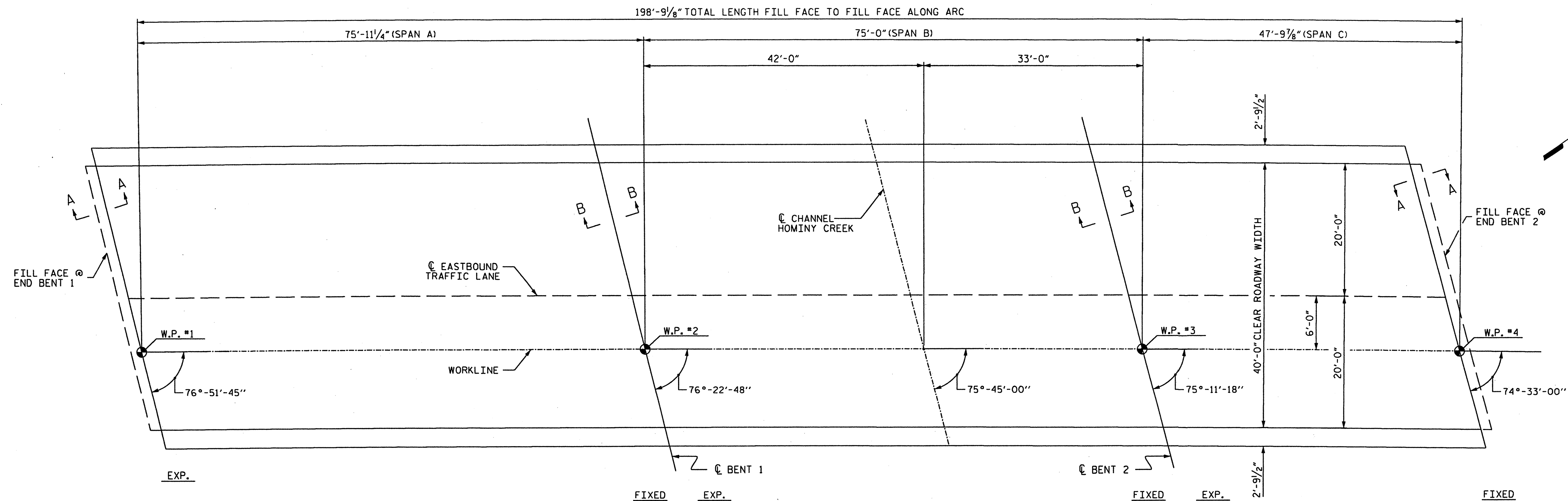
**NOTES:**

- 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.
- THE BRIDGE DECK SHALL BE TINED, NO SEPARATE PAYMENT SHALL BE MADE FOR BRIDGE DECK TINING AS THIS IS CONSIDERED INCIDENTAL TO THE PAY ITEM FOR "PLACING AND FINISHING OF LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH".
- FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.
- FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

PROJECT NO. B-5179B  
BUNCOMBE COUNTY  
 STATION: 630+62.50 -L-

STATE OF NORTH CAROLINA					
DEPARTMENT OF TRANSPORTATION					
RALEIGH					
<b>TYPICAL SECTION</b>					
<b>DECK REHAB. FOR BRIDGE NO. 70</b>					
REVISIONS					SHEET NO. S-4
NO.	BY	DATE	NO.	DATE	
1			3		TOTAL SHEETS 28
2			4		

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



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	PLACING AND FINISHING LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH	EVAZOTE JOINT SEALS
SQ. YDS.	SQ. YDS.	SQ. YDS.	SQ. YDS.	SQ. FT.	SQ. YDS.	CU. YDS.	CU. YDS.	SQ. YDS.	LUMP SUM
885	647	208	30	270	885	4	62	885	LUMP SUM

\* QUANTITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.

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

PROJECT NO. B-5179B  
 BUNCOMBE COUNTY  
 STATION: 630+62.50 -L-

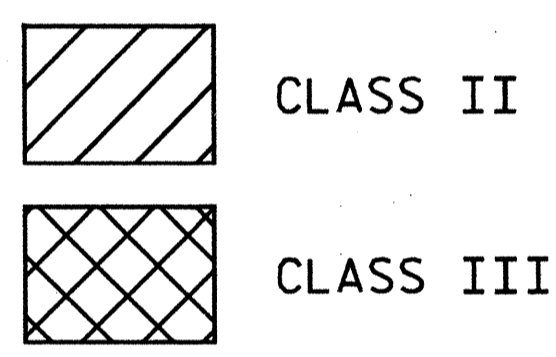
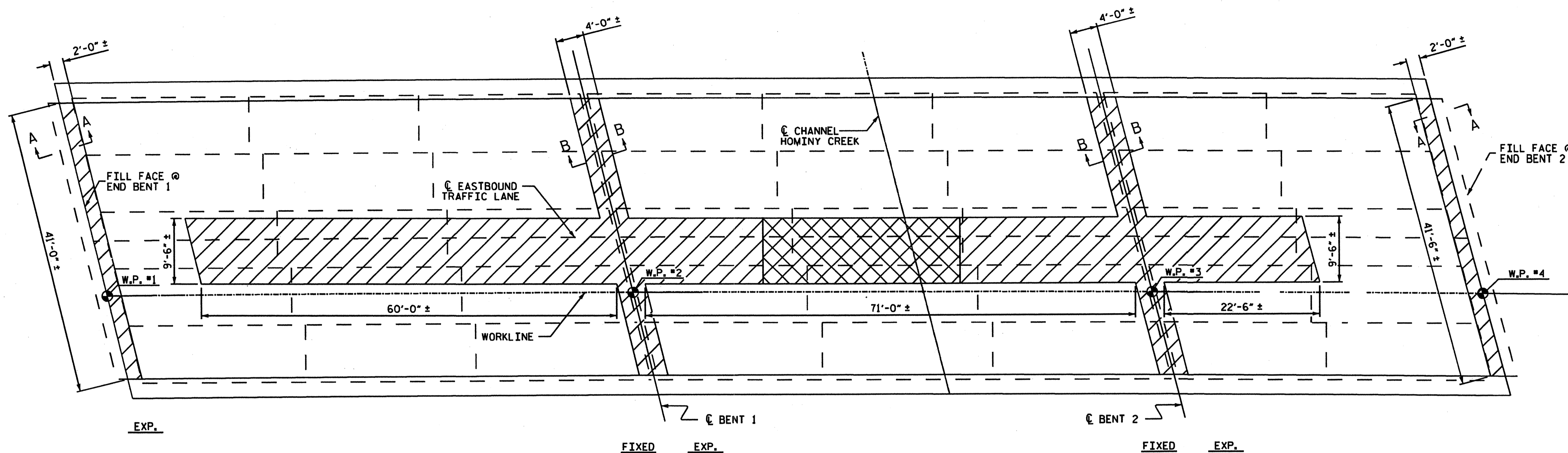
SHEET 1 OF 2

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

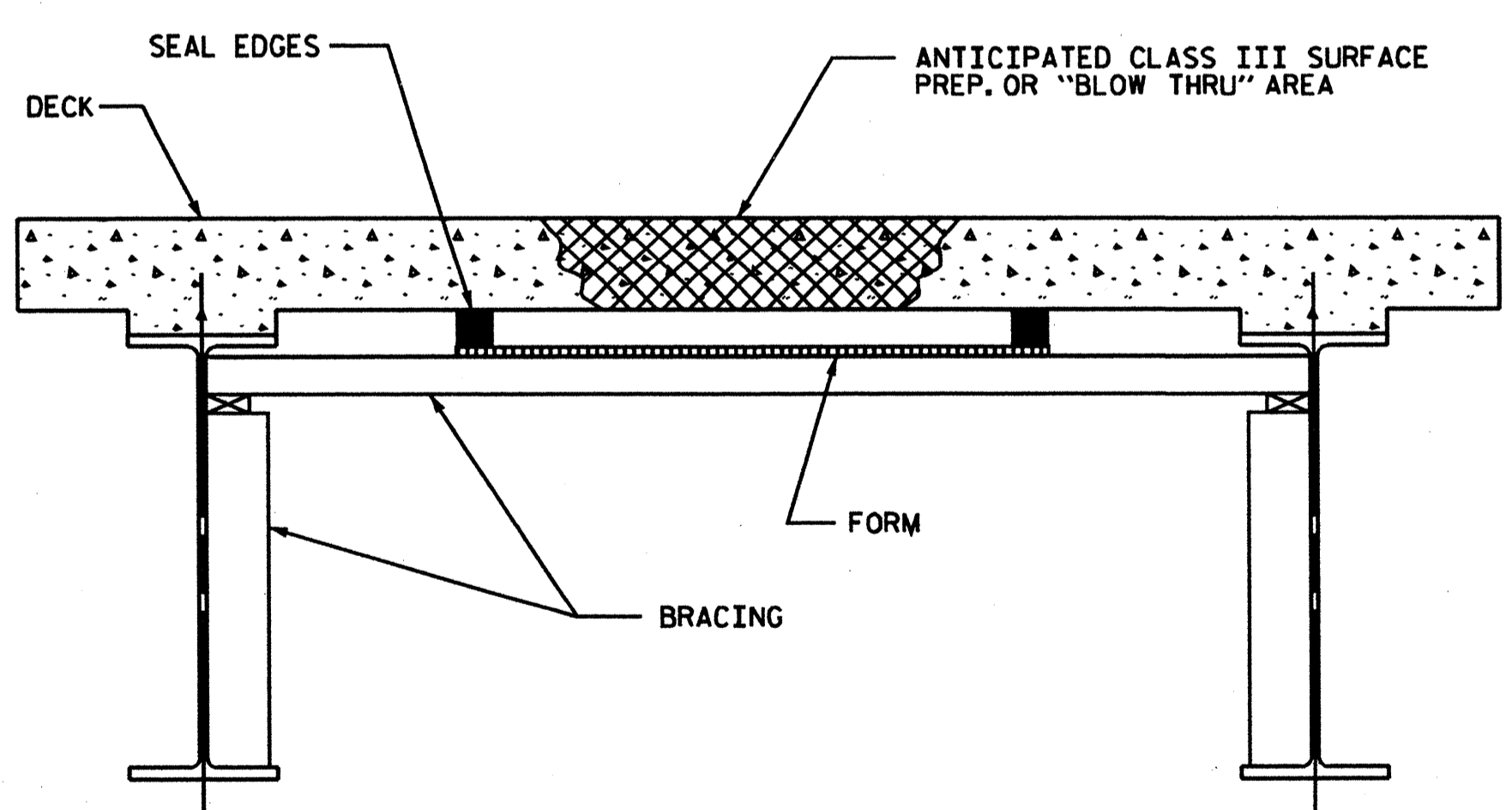
PLAN OF SPANS  
 FOR DECK REPAIR

DECK REHAB. FOR BRIDGE NO. 70

REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	DATE:	S-5
1			3		TOTAL SHEETS
2			4		28

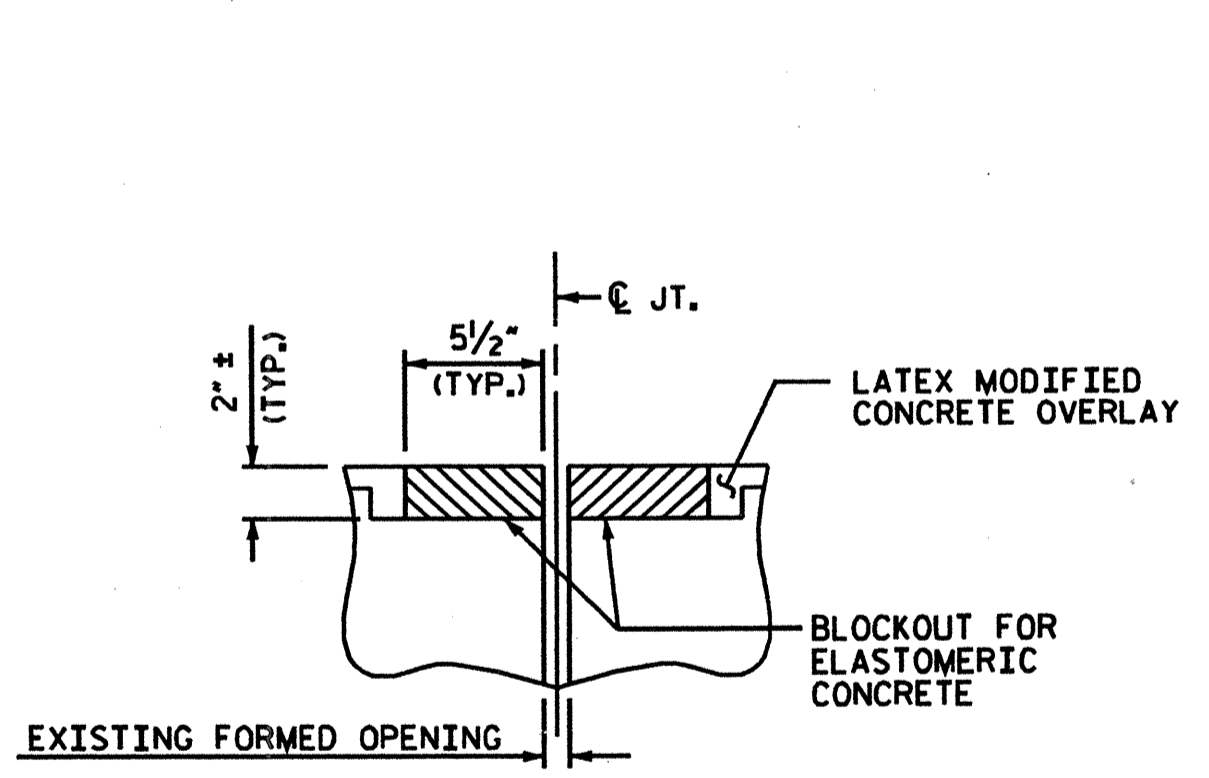


**PLAN OF SPANS - DECK REPAIRS**

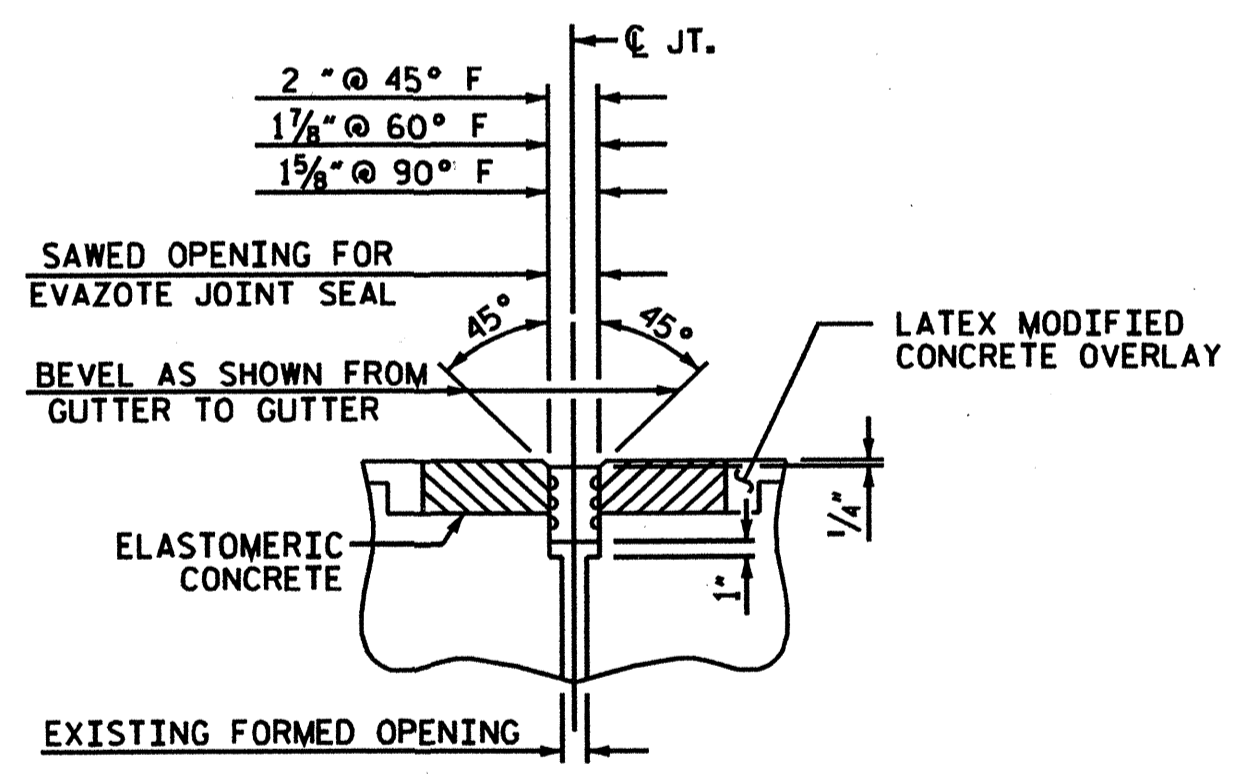


**TYP. "BLOW THRU" CONTAINMENT AND FORMWORK**

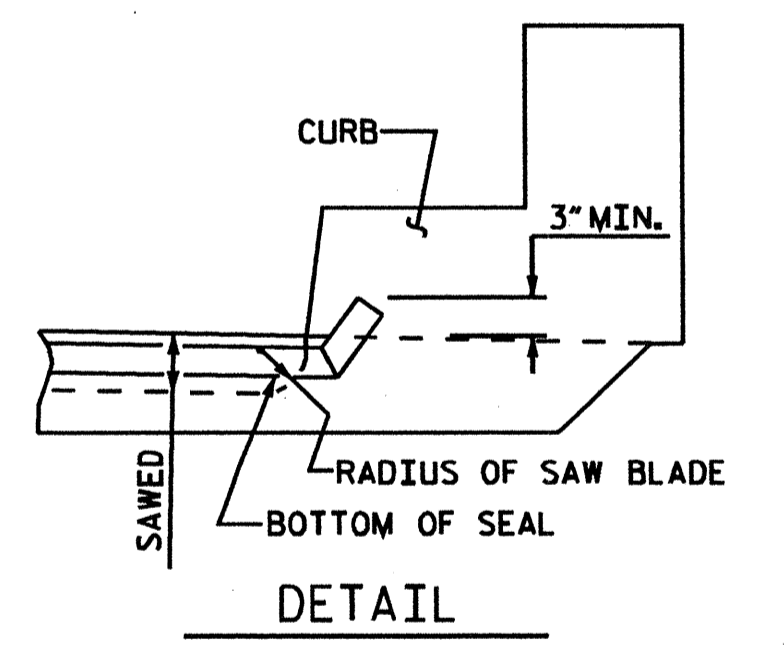
A METHOD TO CAPTURE WATER AND DEBRIS FROM BLOW THRU DURING HYDRO-DEMOLITION SHALL BE INSTALLED IN AREAS INDICATED AS CLASS III SURFACE PREPARATION.  
 SUBMIT DETAILS OF PROPOSED FORMWORK FOR APPROVAL PRIOR TO BEGINNING WORK.



**DETAIL B**  
 EVAZOTE JOINT SEAL  
 (PRE-SAWED ELASTOMERIC CONCRETE DIMENSIONS)



**DETAIL B**  
 EVAZOTE JOINT SEAL  
 (EXPANSION)



**DETAIL**

ELASTOMERIC CONCRETE	
BENT NO.	ELASTOMERIC CONCRETE * (CU. FT.)
E.B. 1	6.3
BENT 1	6.3
BENT 2	6.3
E.B. 2	6.3
TOTAL	25.2

\* BASED ON THE MINIMUM BLOCKOUT SHOWN.

PROJECT NO. B-5179B  
BUNCOMBE COUNTY  
 STATION: 630+62.50 -L-

SHEET 2 OF 2

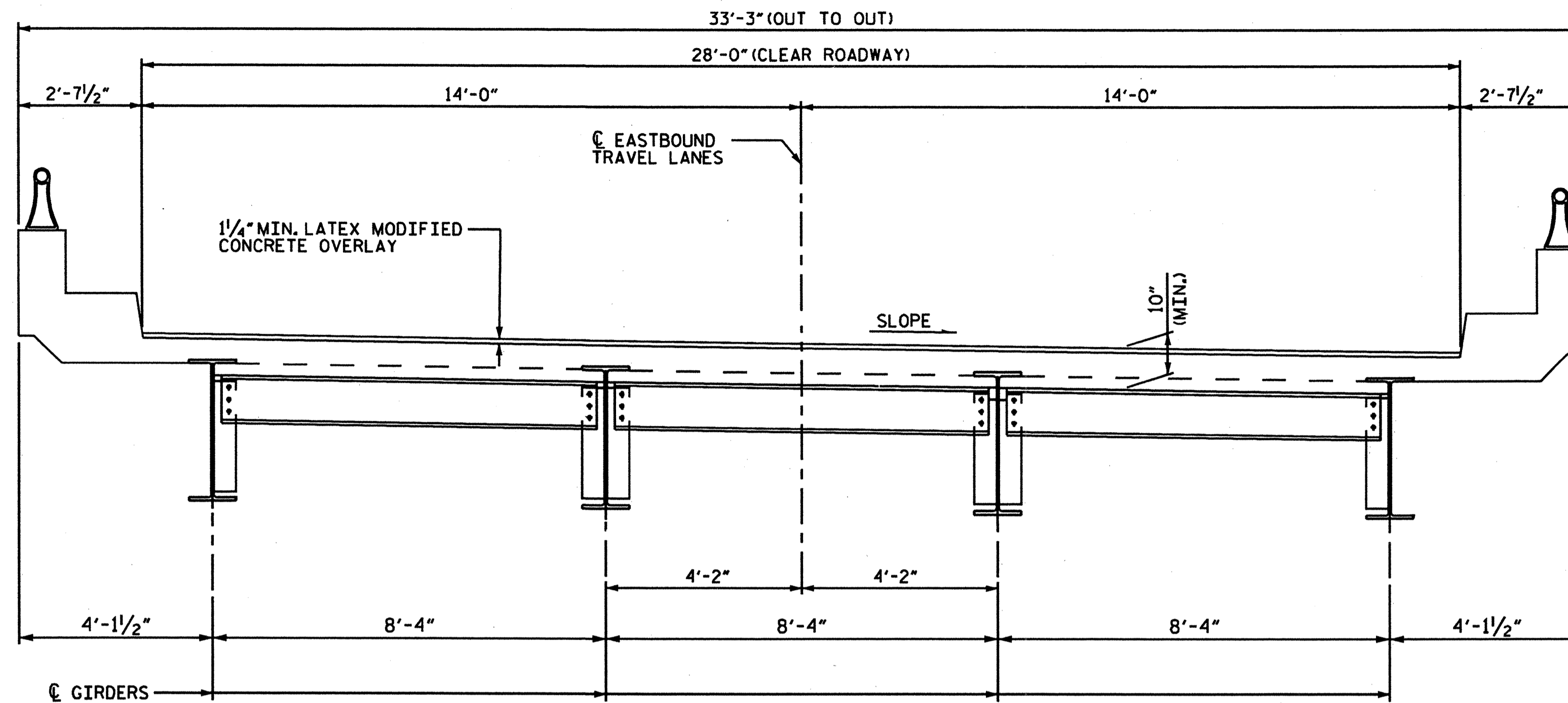
STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

**PLAN OF SPANS  
 FOR DECK REPAIR**

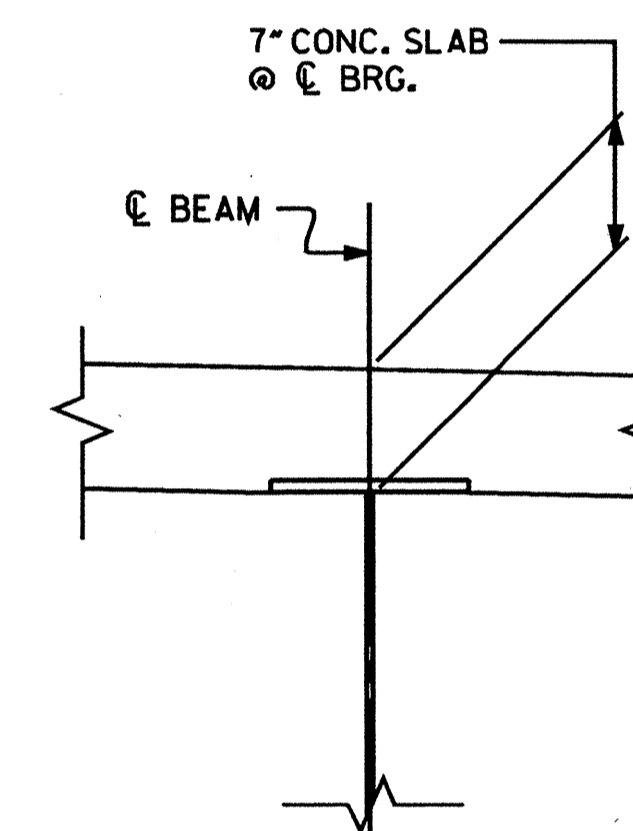
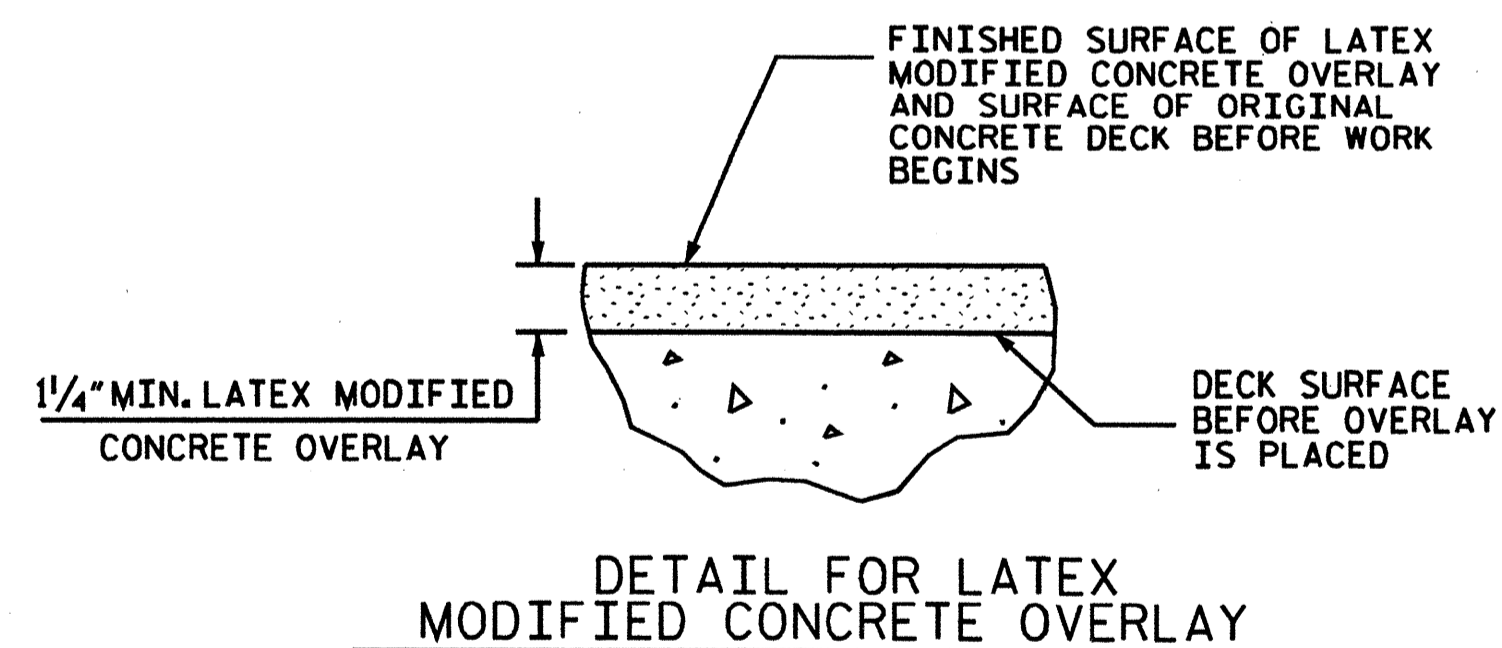
DECK REHAB. FOR BRIDGE NO. 70

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	S-6
1			3			TOTAL SHEETS 28
2			4			

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



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.
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- 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.

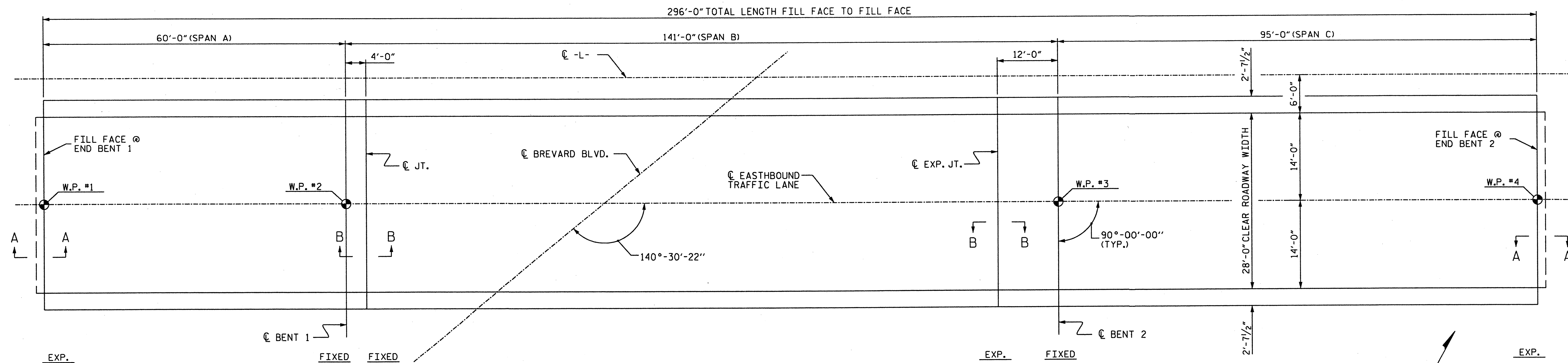
PROJECT NO. B-5179B  
BUNCOMBE COUNTY  
STATION: 25+07.35 -L-

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH  
TYPICAL SECTION

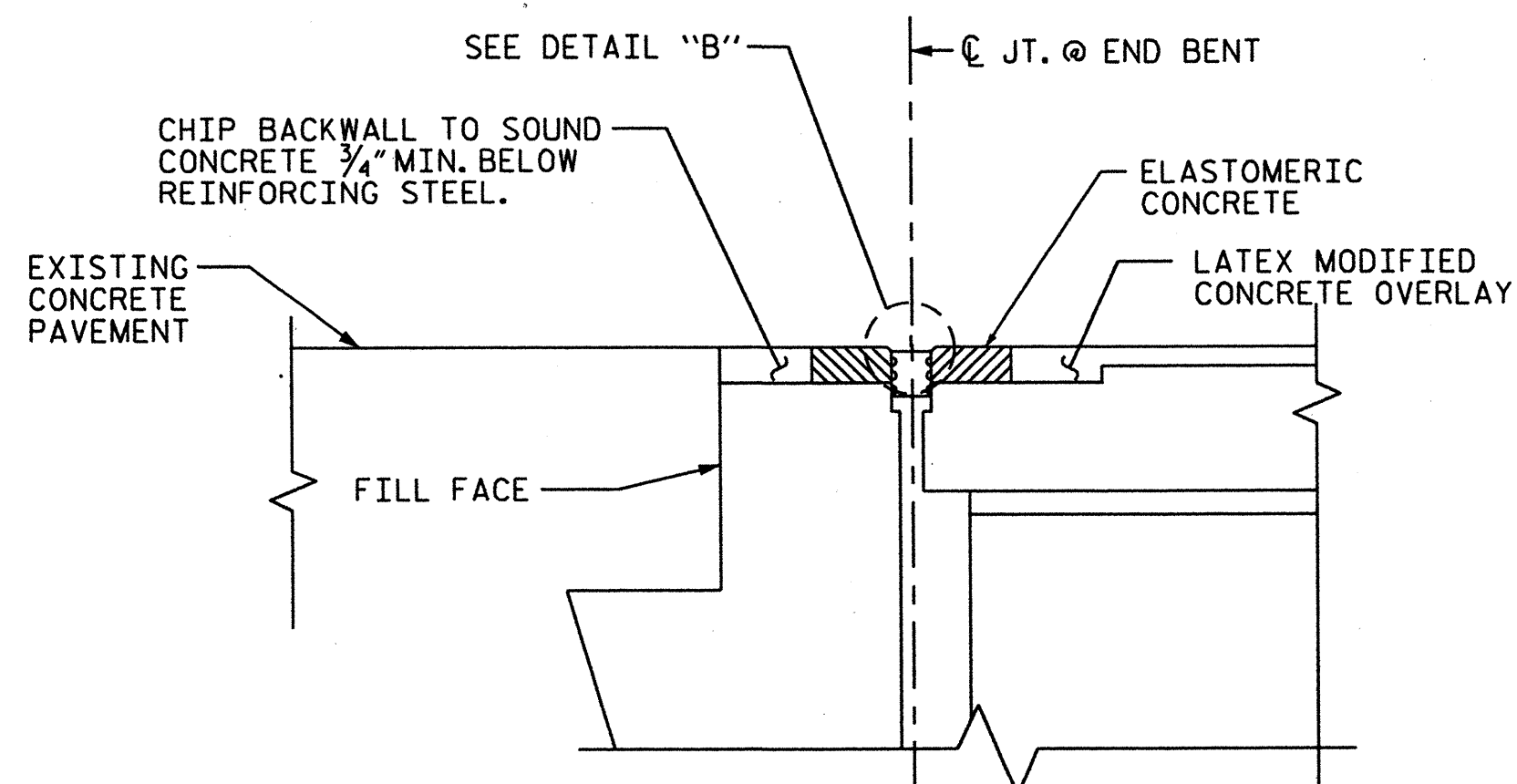
DECK REHAB. FOR BRIDGE NO. 206

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	TOTAL SHEETS
1			3			5-7
2			4			28

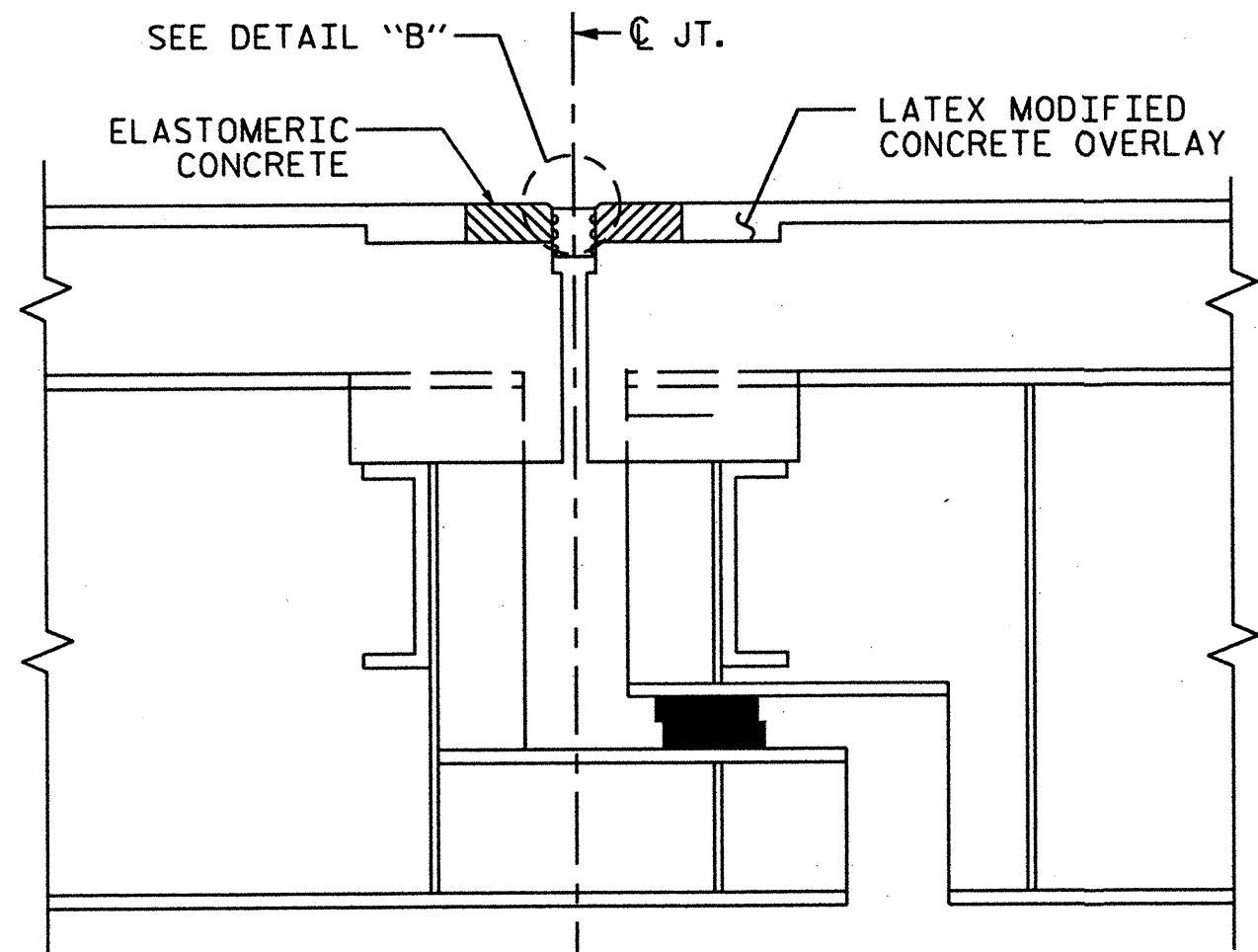
DRAWN BY : M.A. ALLEN DATE : 08-09  
CHECKED BY : R.W. WRIGHT DATE : 08-09



PLAN OF SPANS



SECTION A-A  
(PROPOSED JOINT REPLACEMENT DETAIL)



SECTION B-B  
(PROPOSED JOINT REPLACEMENT DETAIL)

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

SHEET 1 OF 2

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

\* QUANTITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.

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

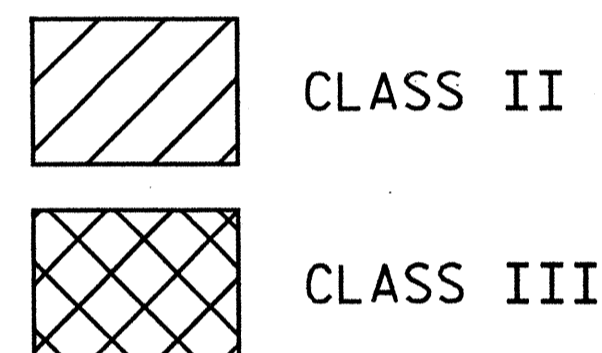
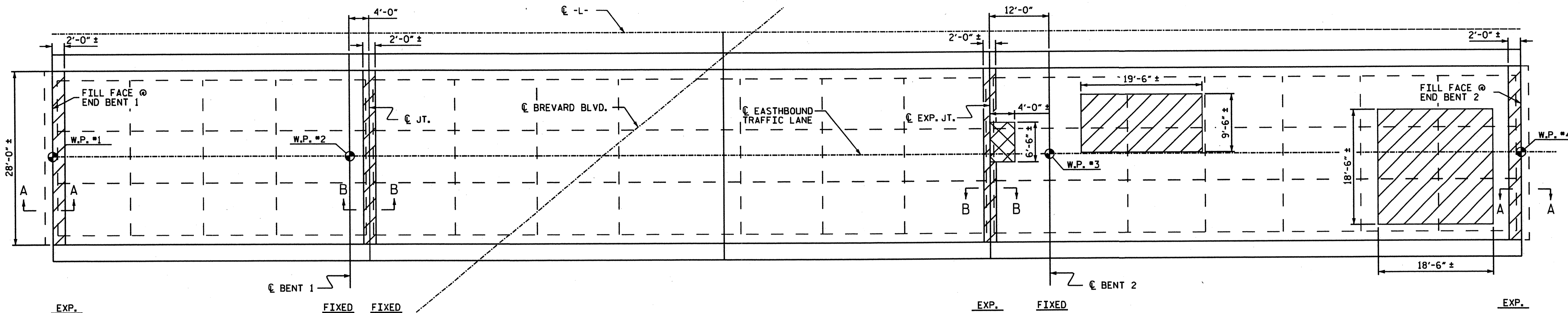
STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

PLAN OF SPANS  
 FOR DECK REPAIR

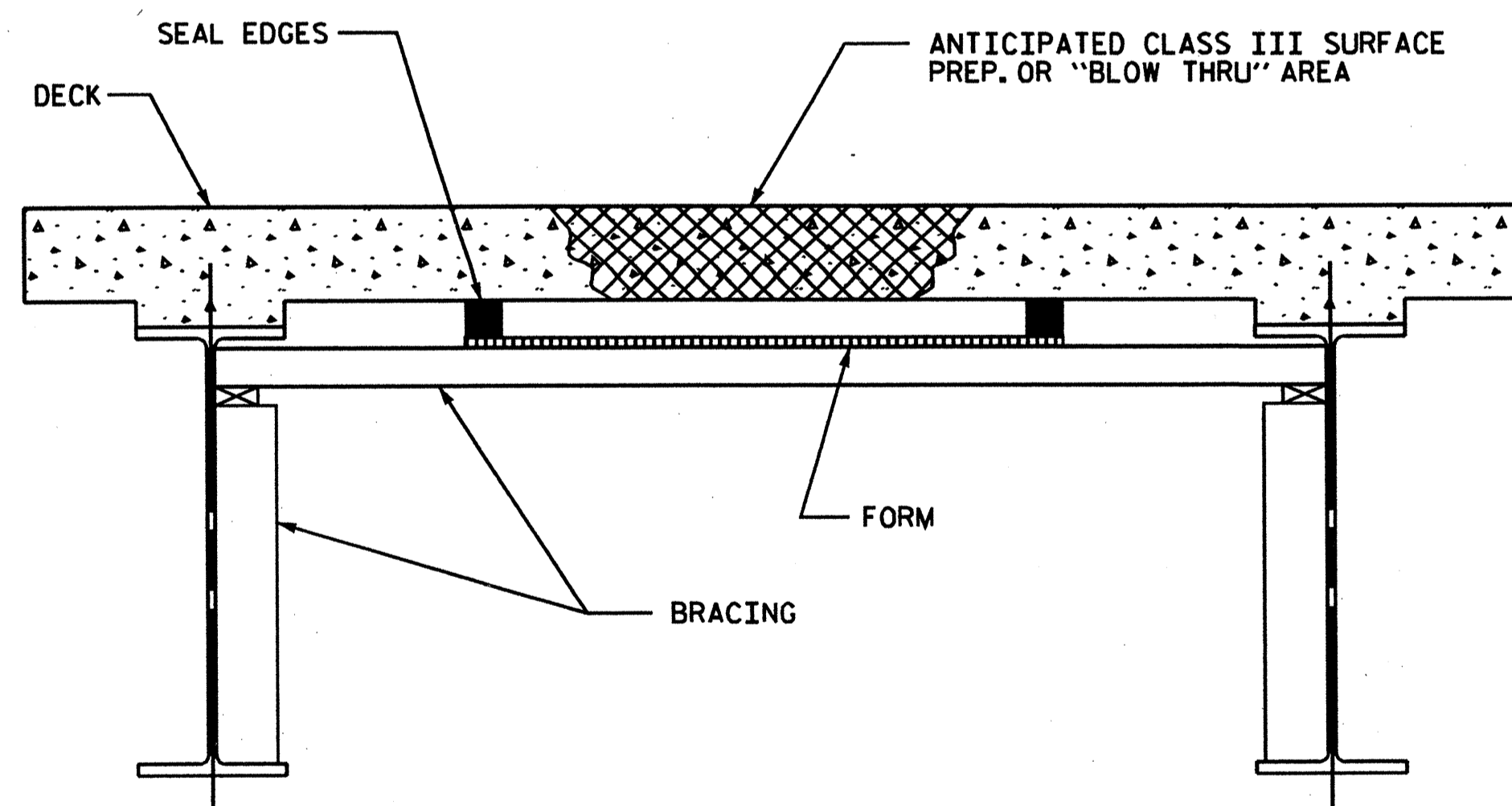
DECK REHAB. FOR BRIDGE NO. 206

REVISIONS				SHEET NO.
NO.	BY:	DATE:	NO.	DATE:
1			3	
2			4	

S-8  
 TOTAL SHEETS 28



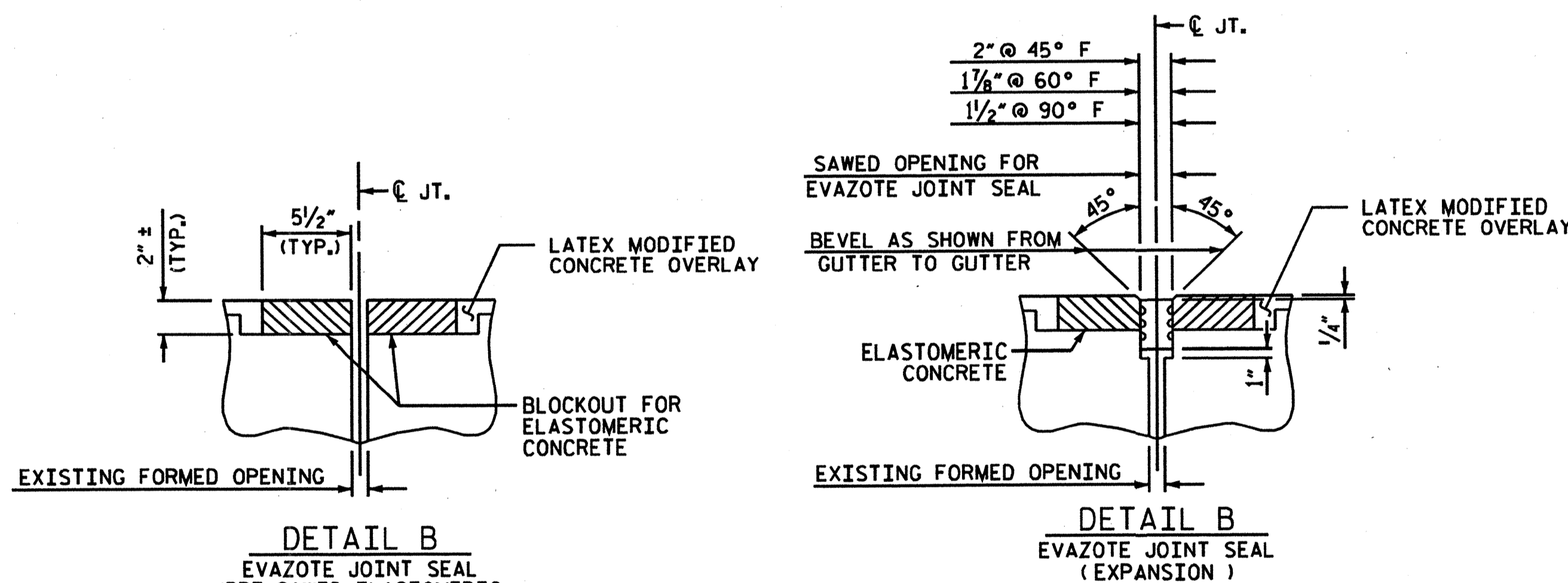
PLAN OF SPANS - DECK REPAIRS



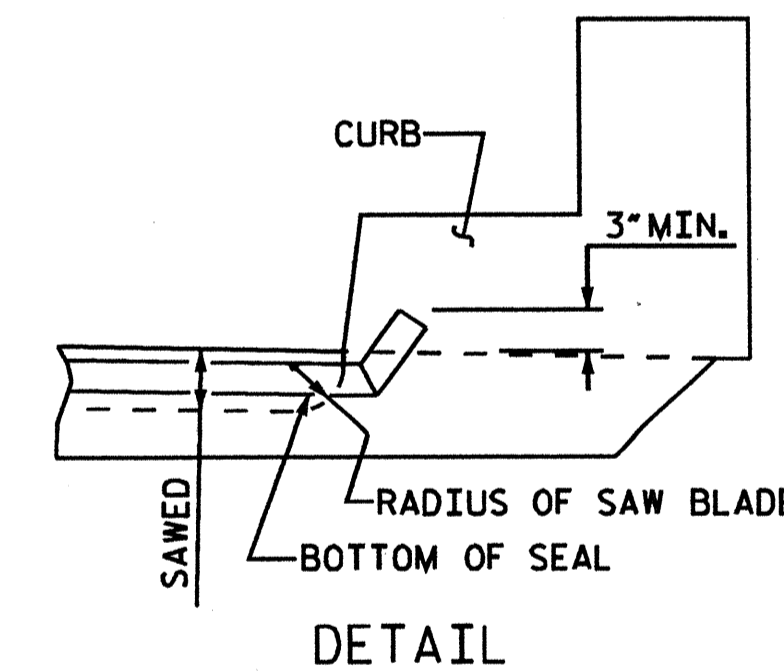
TYP. "BLOW THRU" CONTAINMENT AND FORMWORK

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.



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



DETAIL

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-

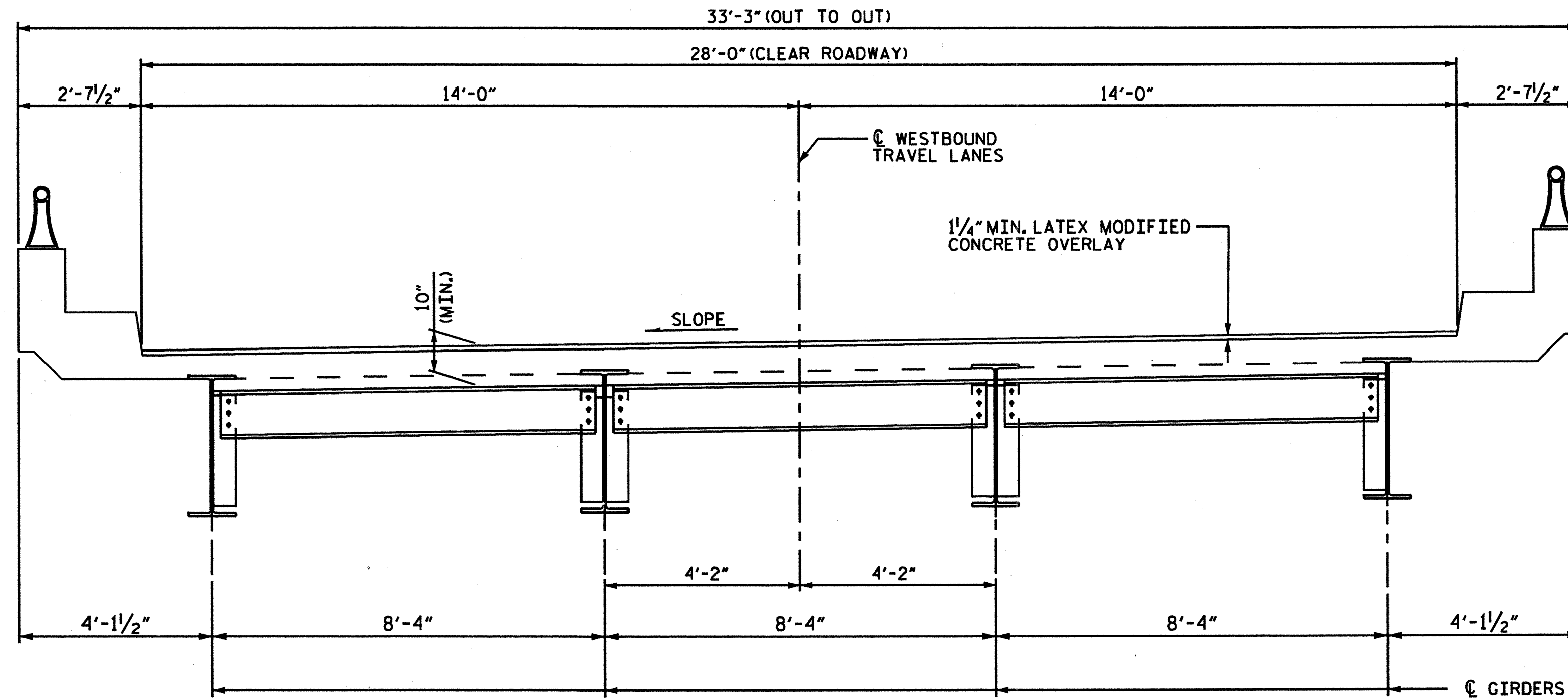
SHEET 2 OF 2

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

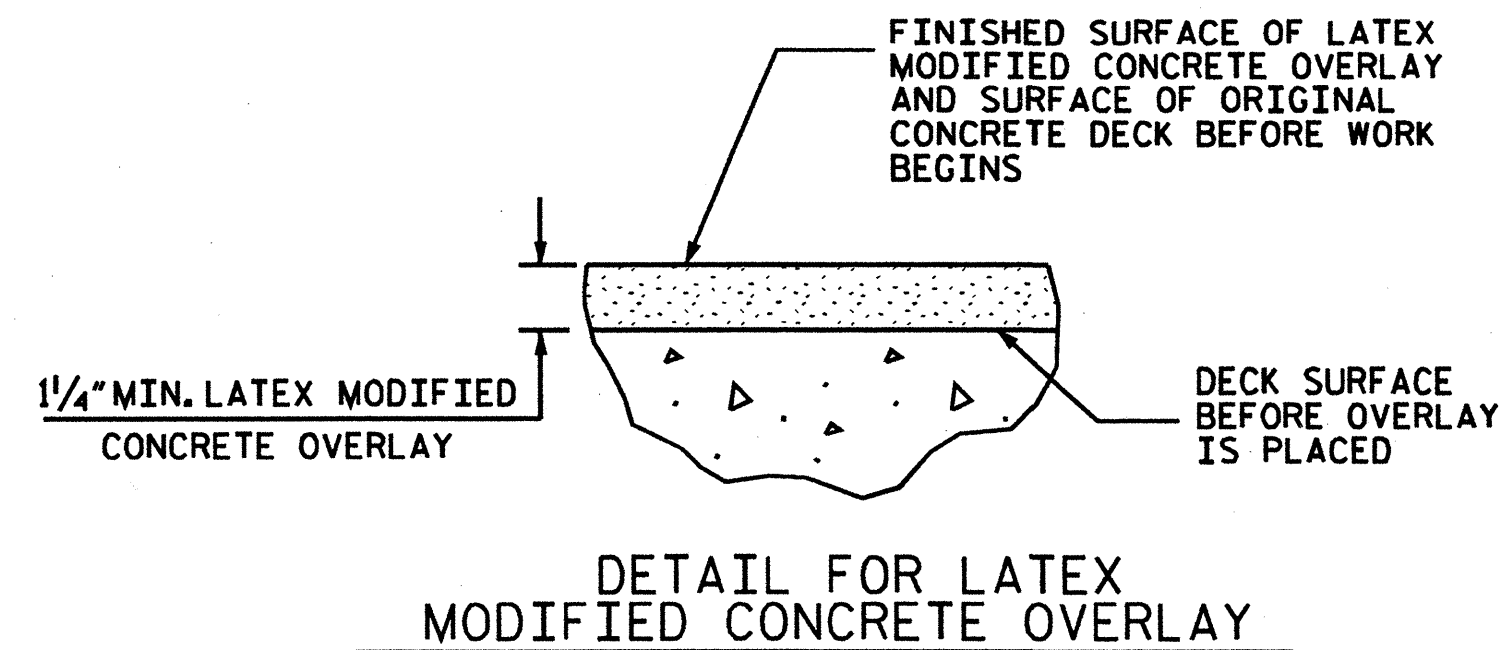
DECK REHAB. FOR BRIDGE NO. 206

REVISIONS				SHEET NO.
NO.	BY	DATE	NO.	DATE
1			3	
2			4	

TOTAL SHEETS 28

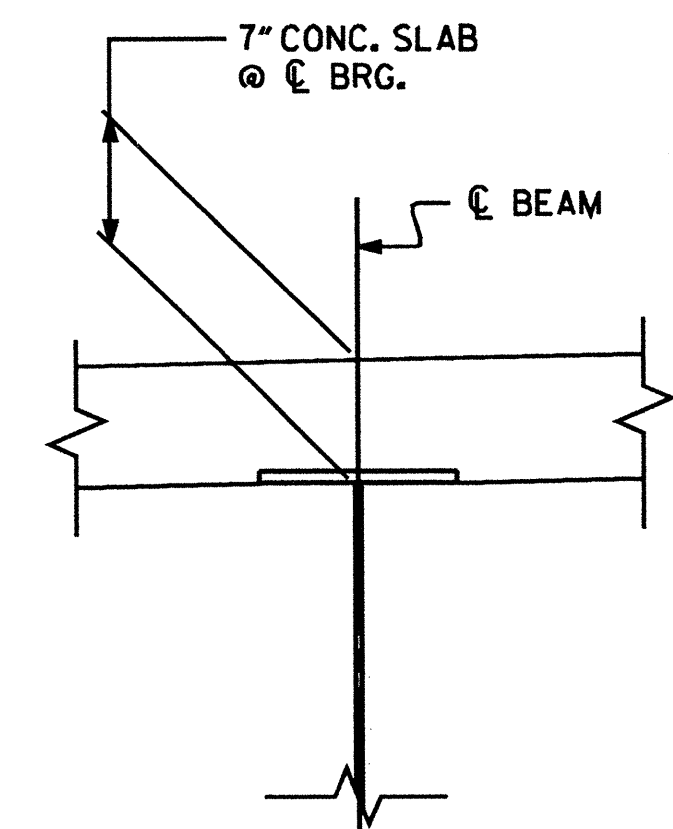


TYP. SECTION  
(SHOWING PARTIAL DIAPHRAGMS AT EXPANSION JOINTS)



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.



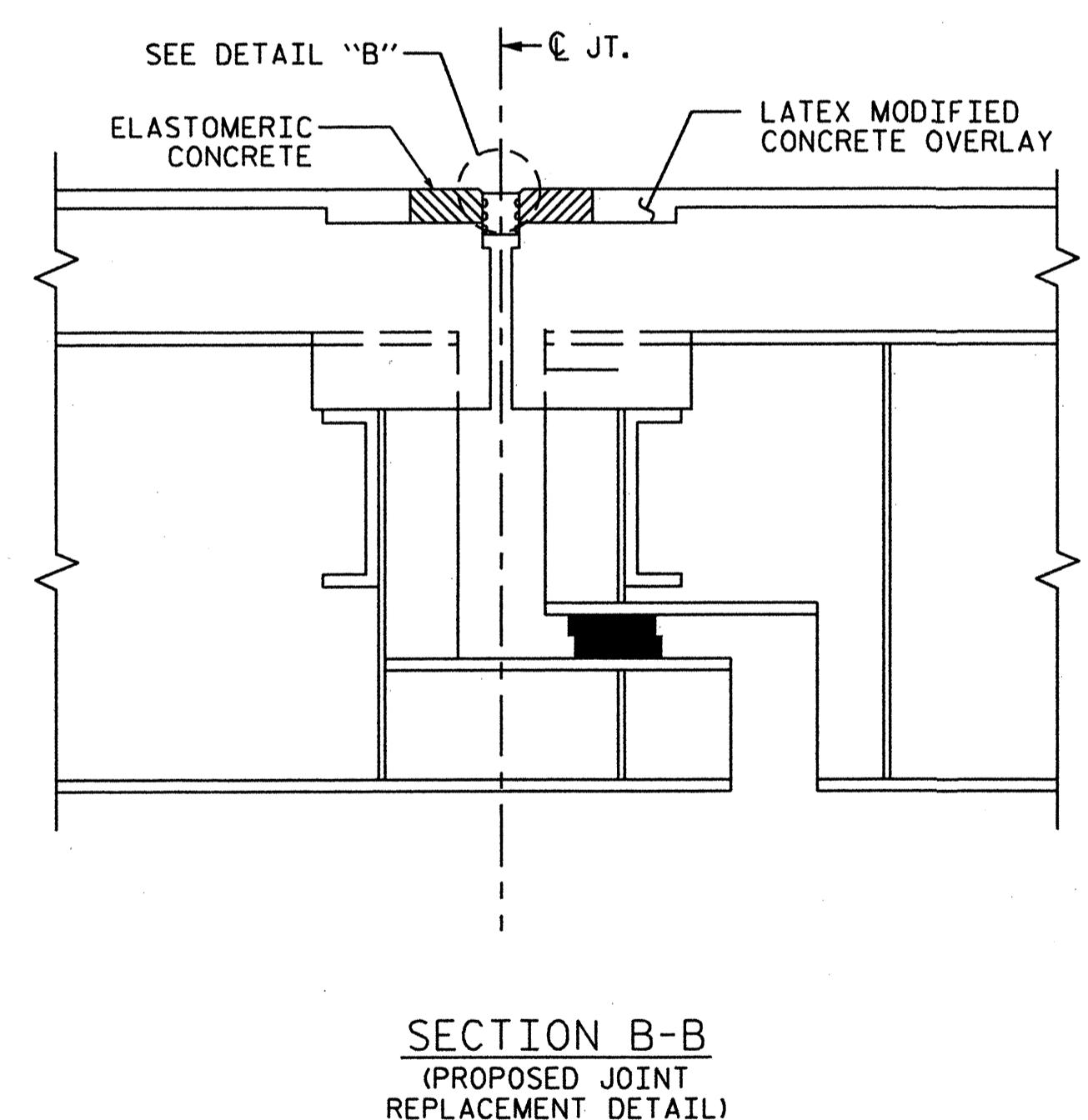
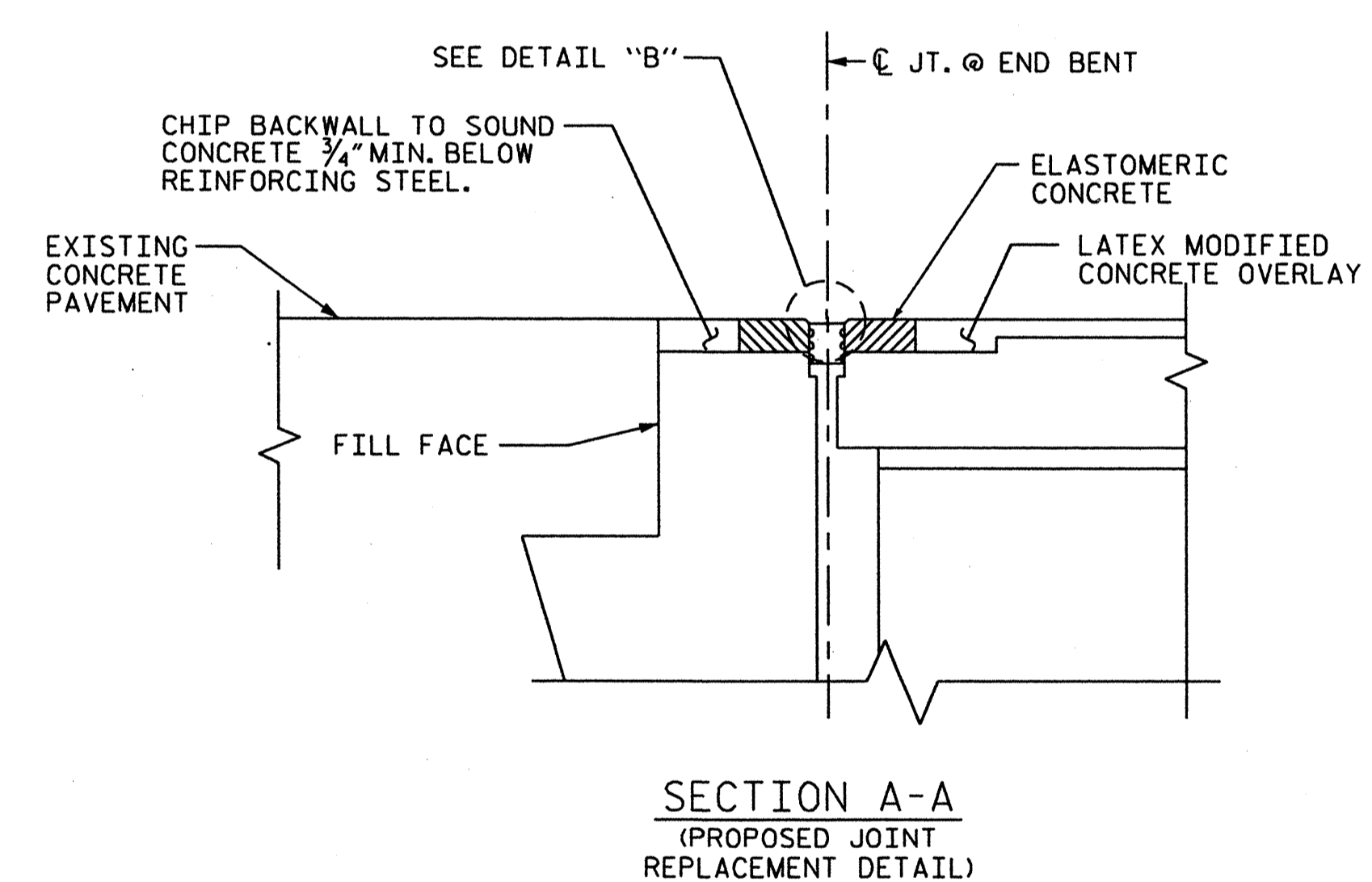
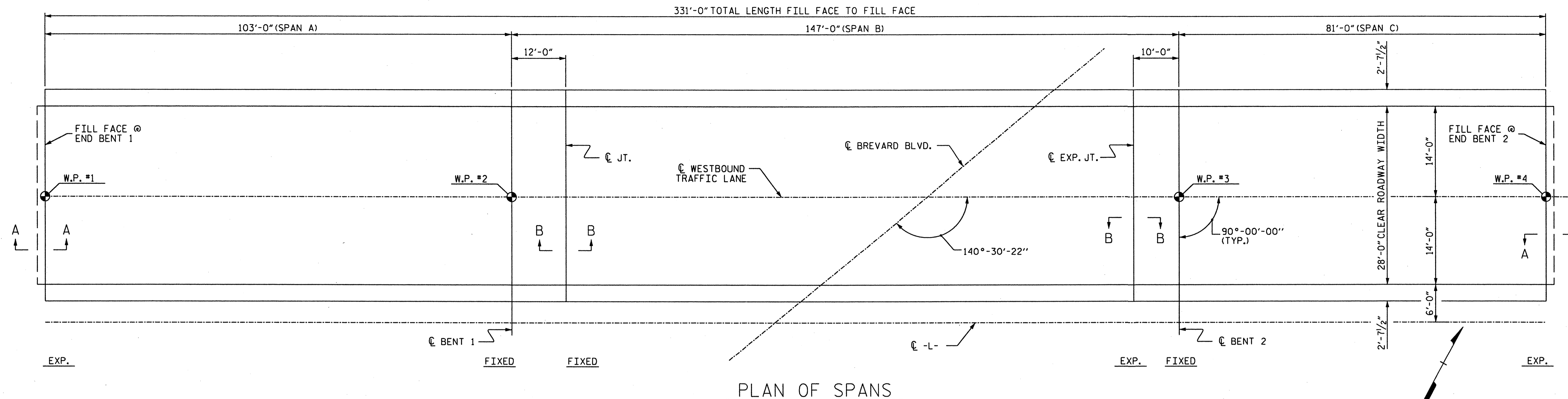
EXIST. SLAB SECTION

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					SHEET NO.
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		
					TOTAL SHEETS 28

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





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

SHEET 1 OF 2

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	PLACING AND FINISHING LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH	EVAZOTE JOINT SEALS	GROOVING 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.

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

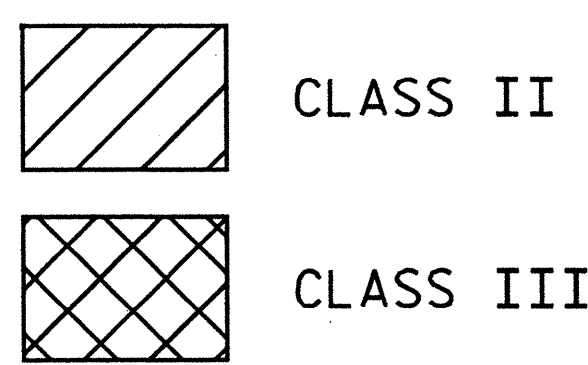
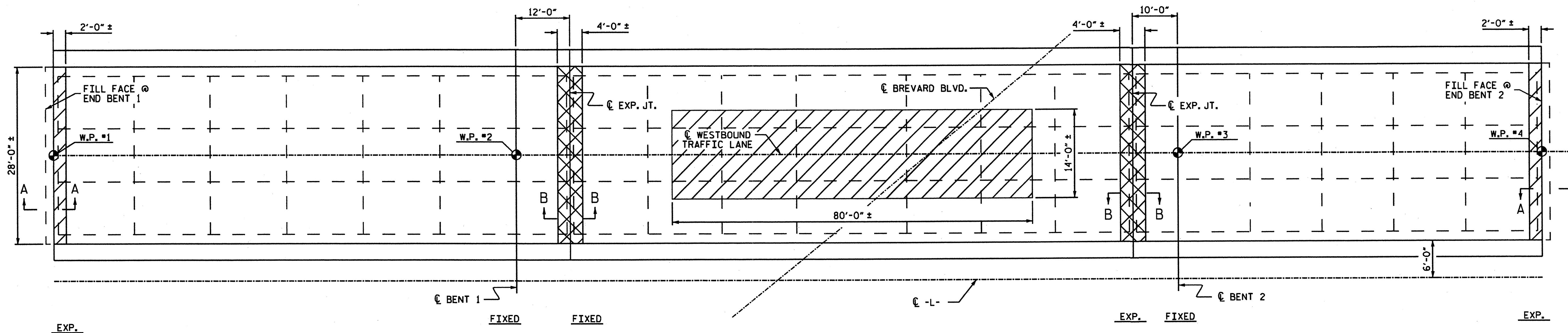
STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

**PLAN OF SPANS  
 FOR DECK REPAIR**

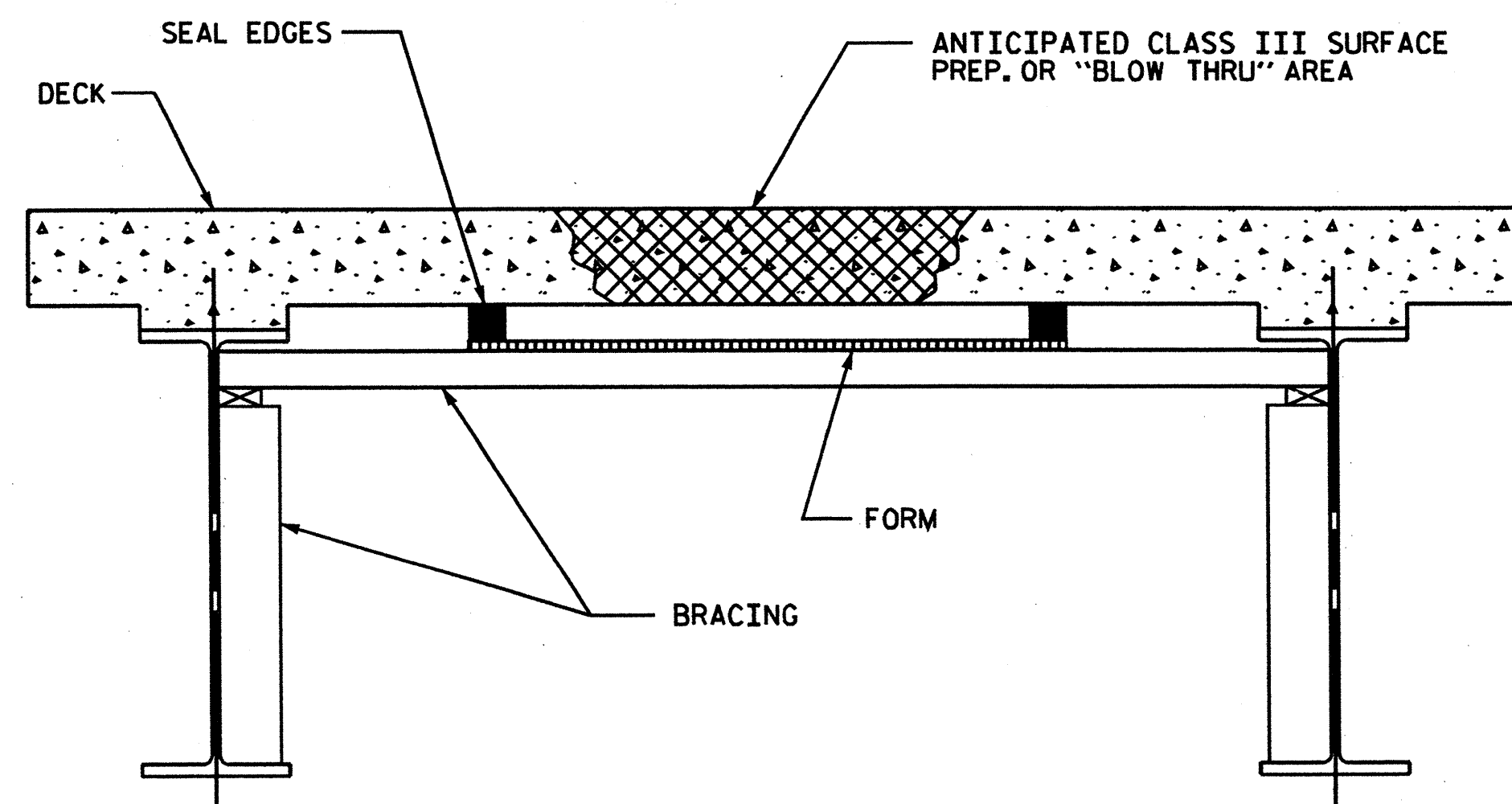
DECK REHAB. FOR BRIDGE NO. 208

REVISIONS				SHEET NO.
NO.	BY:	DATE:	NO.	DATE:
1			3	
2			4	

TOTAL SHEETS 28



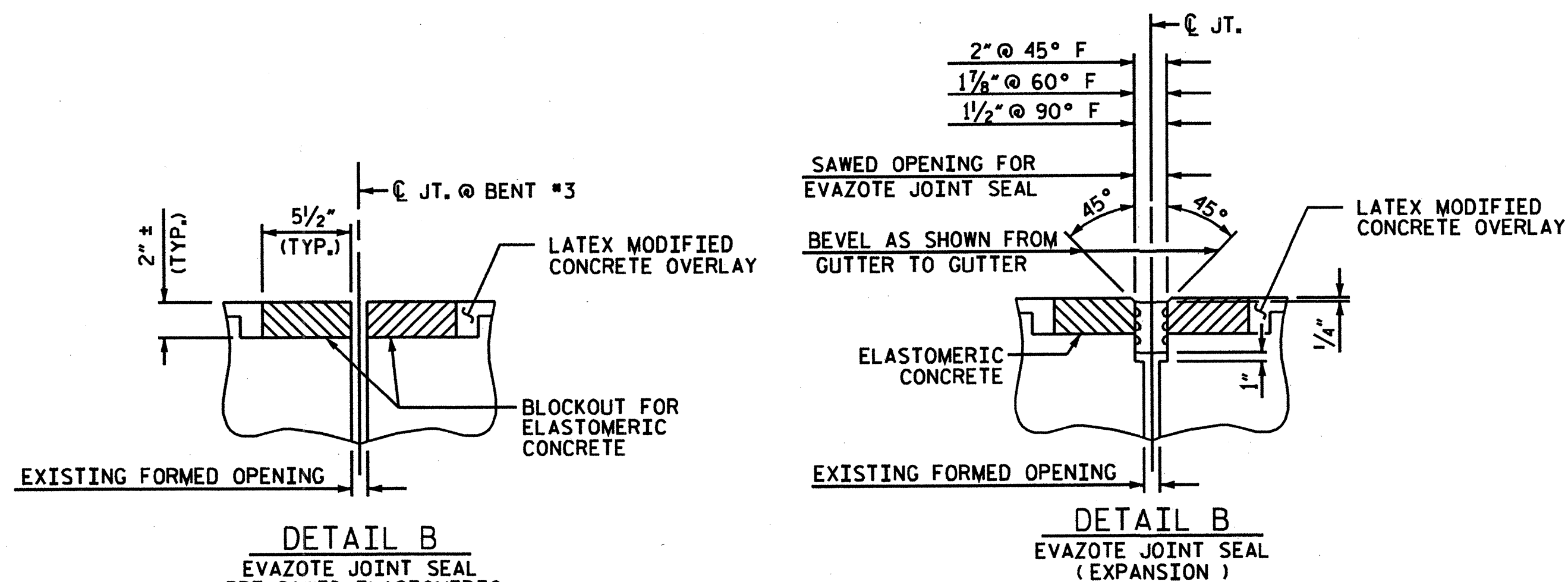
PLAN OF SPANS - DECK REPAIRS



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.



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

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  
 RALEIGH

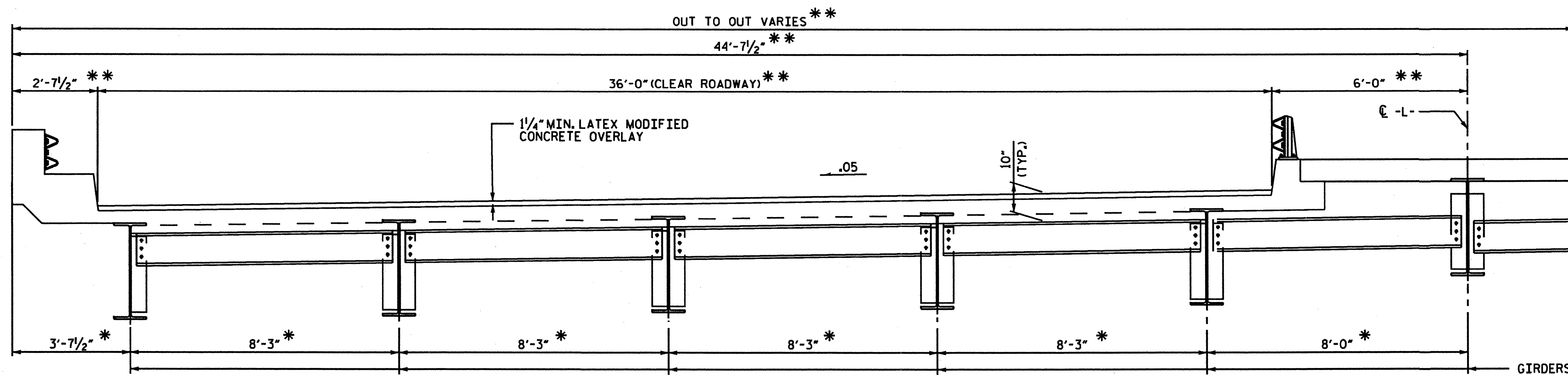
PLAN OF SPANS  
 FOR DECK REPAIR

DECK REHAB. FOR BRIDGE NO. 208

REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

TOTAL SHEETS: 28

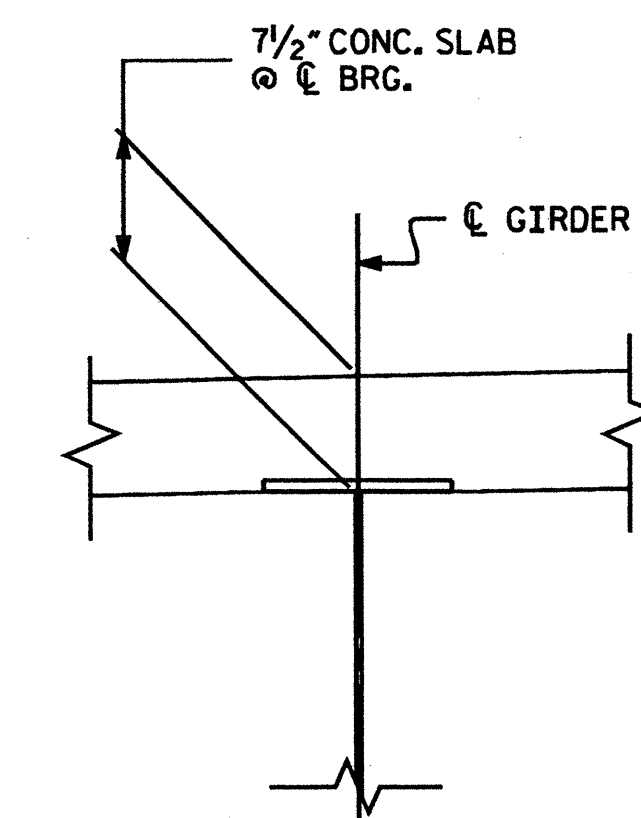
DRAWN BY: M.A. ALLEN DATE: 08-09  
 CHECKED BY: R.W. WRIGHT DATE: 08-09



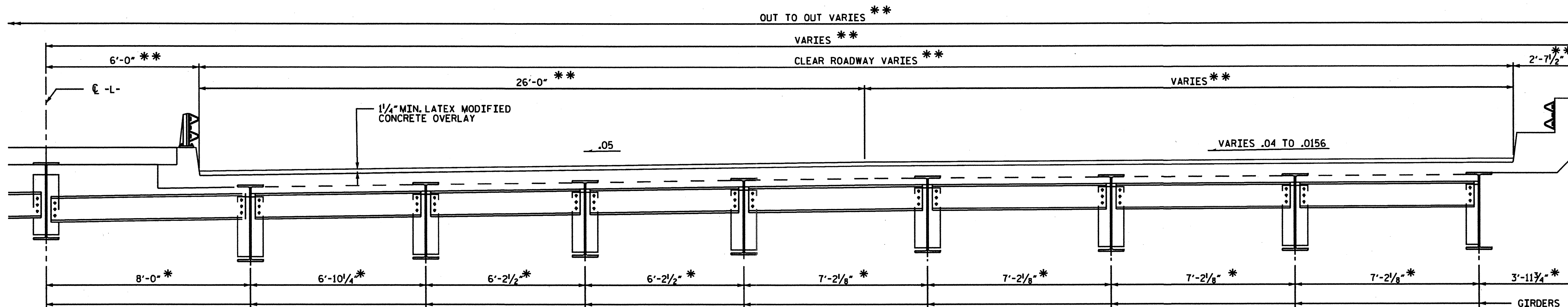
**TYP. SECTION-SOUTHBOUND LANE**

(SHOWING DIAPHRAGMS AT EXPANSION JOINTS)

- \* RADIAL THRU WORKPOINT
- \*\* RADIAL DIMENSIONS TO C-L-



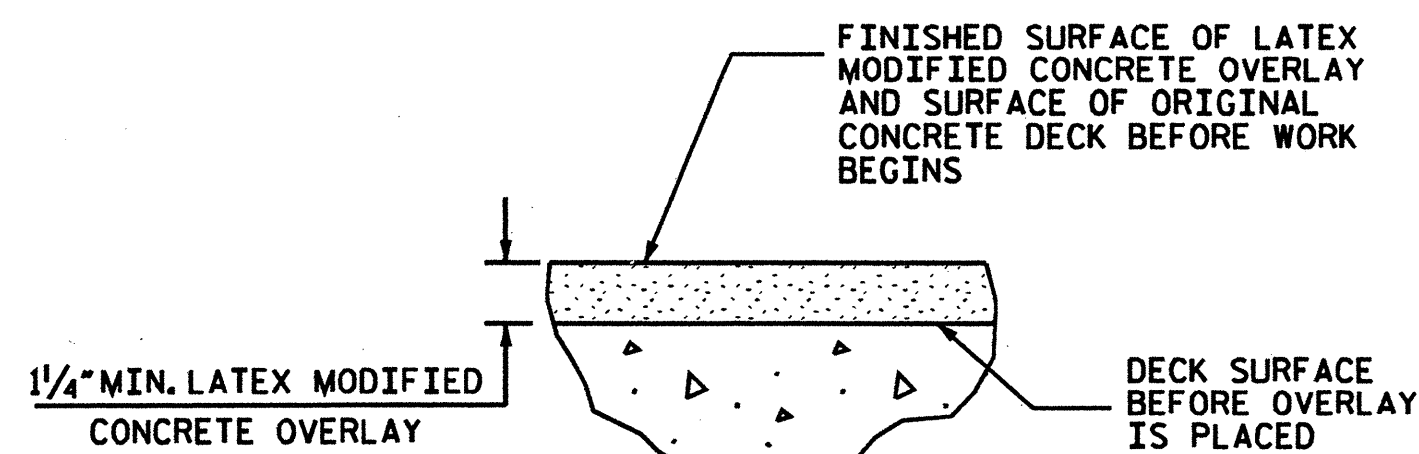
**EXIST. SLAB SECTION**



**TYP. SECTION-NORTHBOUND LANE**

(SHOWING DIAPHRAGMS AT EXPANSION JOINTS)  
(SPAN C SHOWN, SPANS A & B SIM.)

- \* RADIAL THRU WORKPOINT \*4
- \*\* RADIAL DIMENSIONS TO C-L-



**DETAIL FOR LATEX MODIFIED CONCRETE OVERLAY**

**NOTES:**

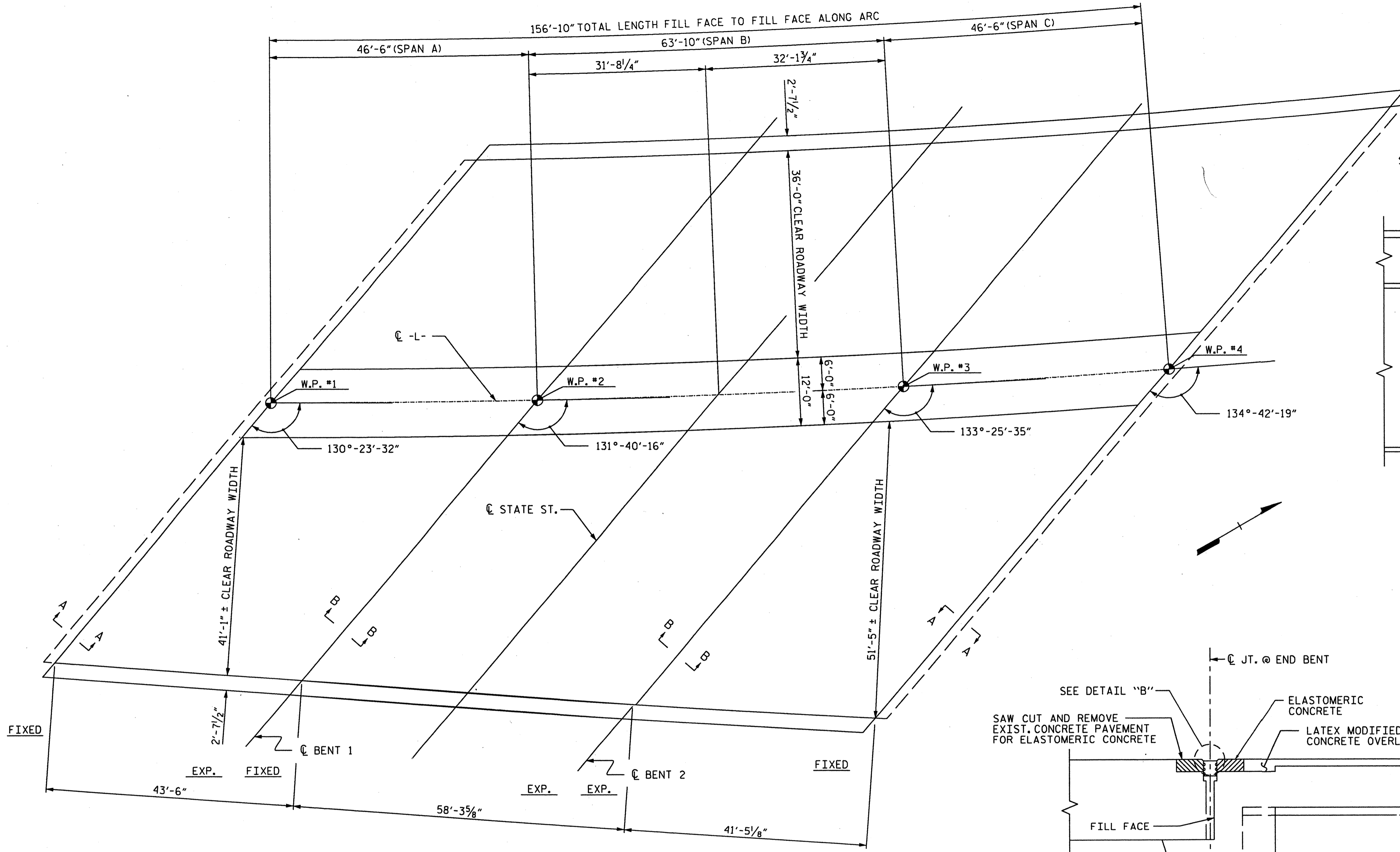
FOR HYDRO-DEMOLITION OF BRIDGE DECK, SEE SPECIAL PROVISIONS.  
 THE CONTRACTOR MUST COLLECT, TREAT AND DISPOSE OF RUN-OFF WATER FROM THE HYDRO-DEMOLITION PROCESS, SEE "HYDRO-DEMOLITION OF BRIDGE DECK" SPECIAL PROVISION.  
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FOR ELASTOMERIC CONCRETE FOR JOINT REPAIR, SEE SPECIAL PROVISIONS.  
 LATEX MODIFIED CONCRETE SHALL BE LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH.  
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 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.

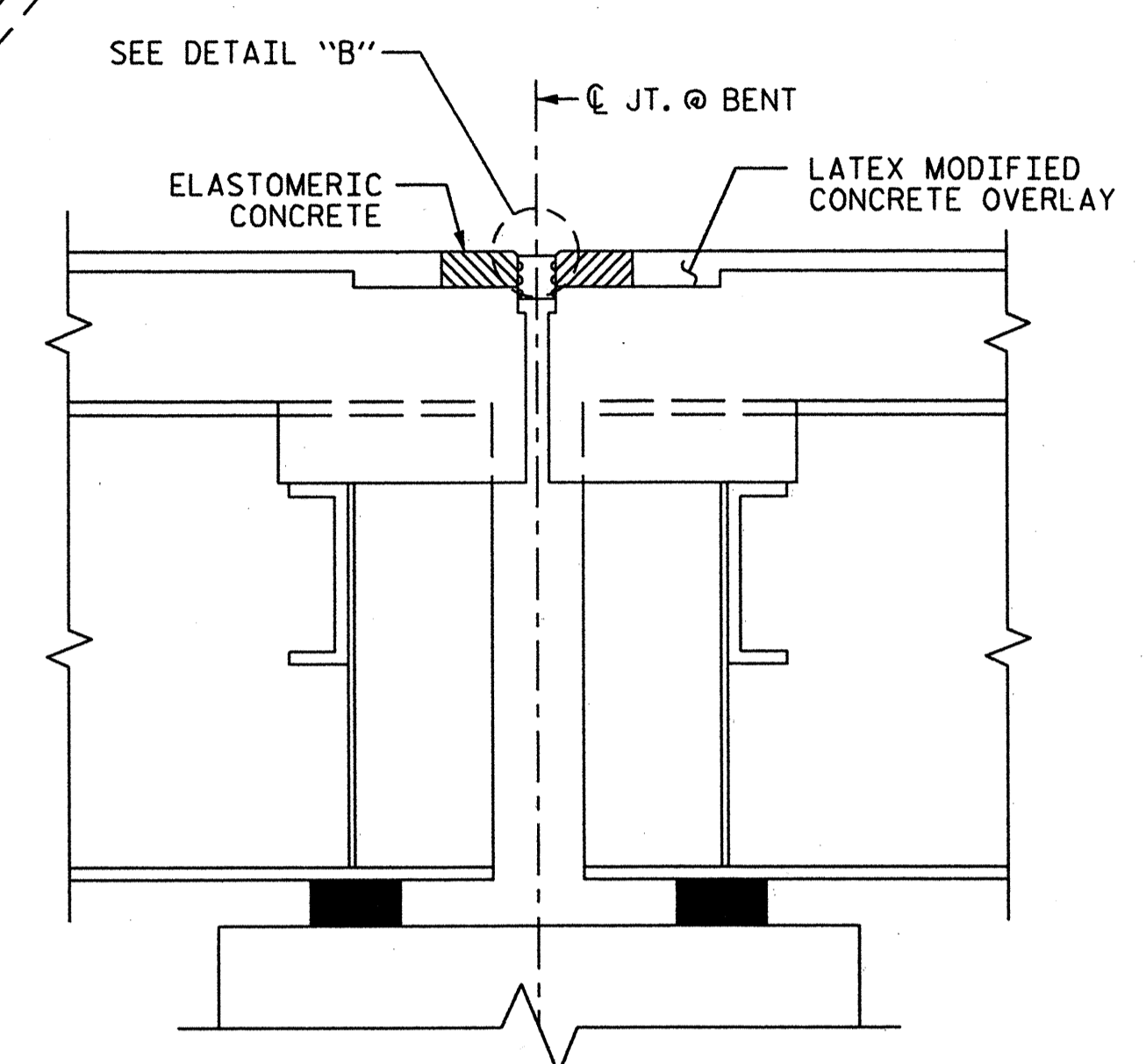
PROJECT NO. B-5179B  
BUNCOMBE COUNTY  
 STATION: 86+21.69 -L-

STATE OF NORTH CAROLINA					
DEPARTMENT OF TRANSPORTATION					
RALEIGH					
TYPICAL SECTION					
DECK REHAB. FOR BRIDGE NO. 274					
REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		
					SHEET NO. S-13
					TOTAL SHEETS 28

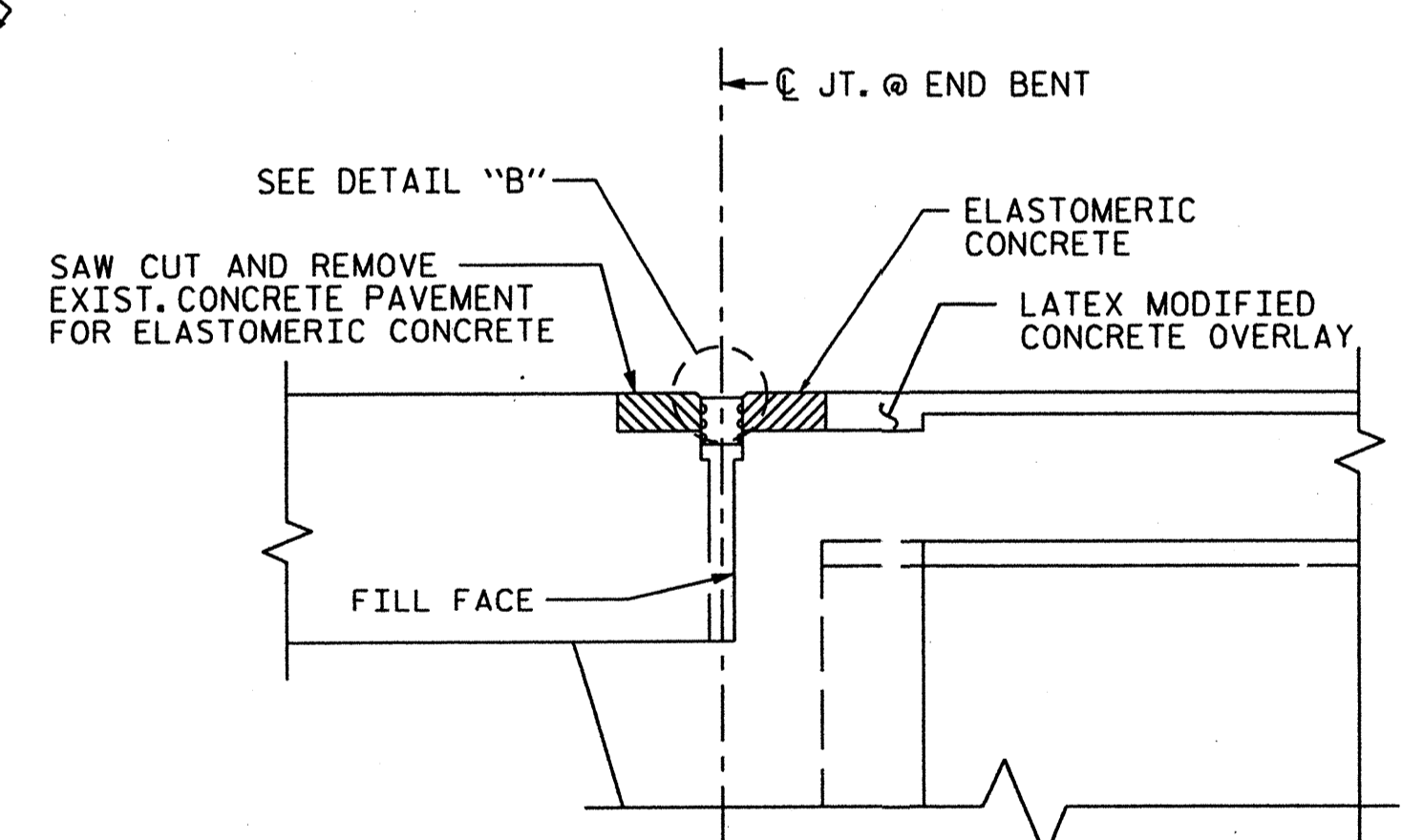
DRAWN BY : M.A. ALLEN DATE : 08-09  
 CHECKED BY : R.W. WRIGHT DATE : 08-09



PLAN OF SPANS



SECTION B-B  
(PROPOSED JOINT REPLACEMENT DETAIL)



SECTION A-A  
(PROPOSED JOINT REPLACEMENT DETAIL)

PROJECT NO. B-5179B  
BUNCOMBE COUNTY  
 STATION: 86+21.69 -L-

SHEET 1 OF 2

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	PLACING AND FINISHING LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH	EVAZOTE JOINT SEALS	GROOVING BRIDGE FLOORS
SO. YDS.	SO. YDS.	SO. YDS.	SO. YDS.	SO. FT.	SO. YDS.	CU. YDS.	CU. YDS.	SO. YDS.	LUMP SUM	SO. FT.
1410	975	433	2	18	1410	1	98	1410	LUMP SUM	11605

\* QUANTITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.

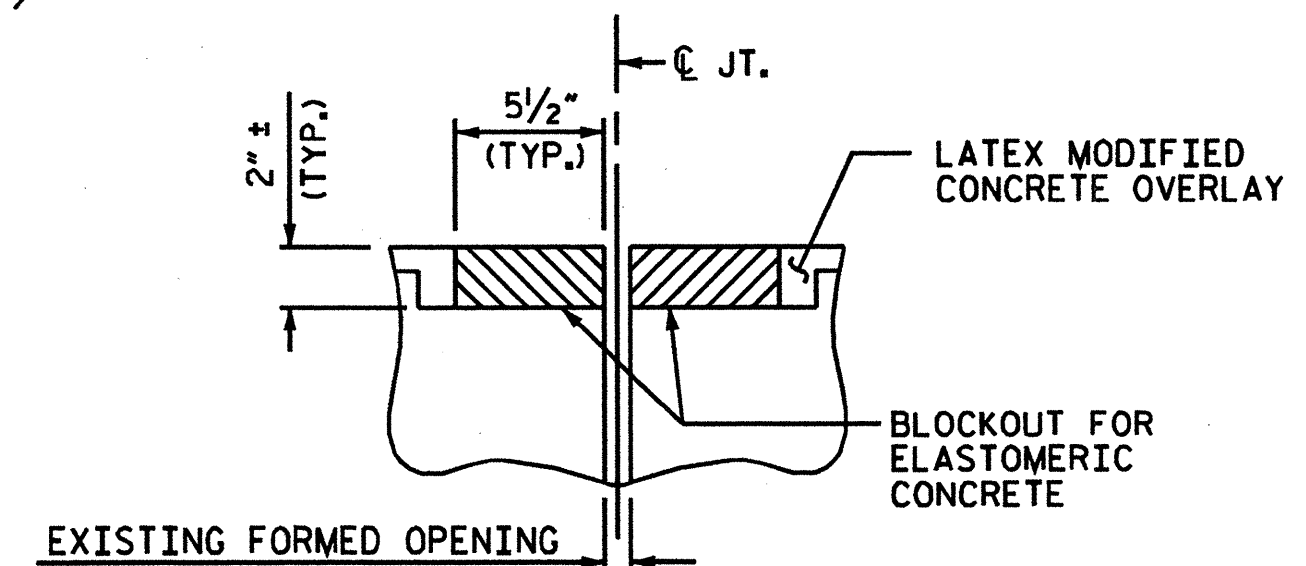
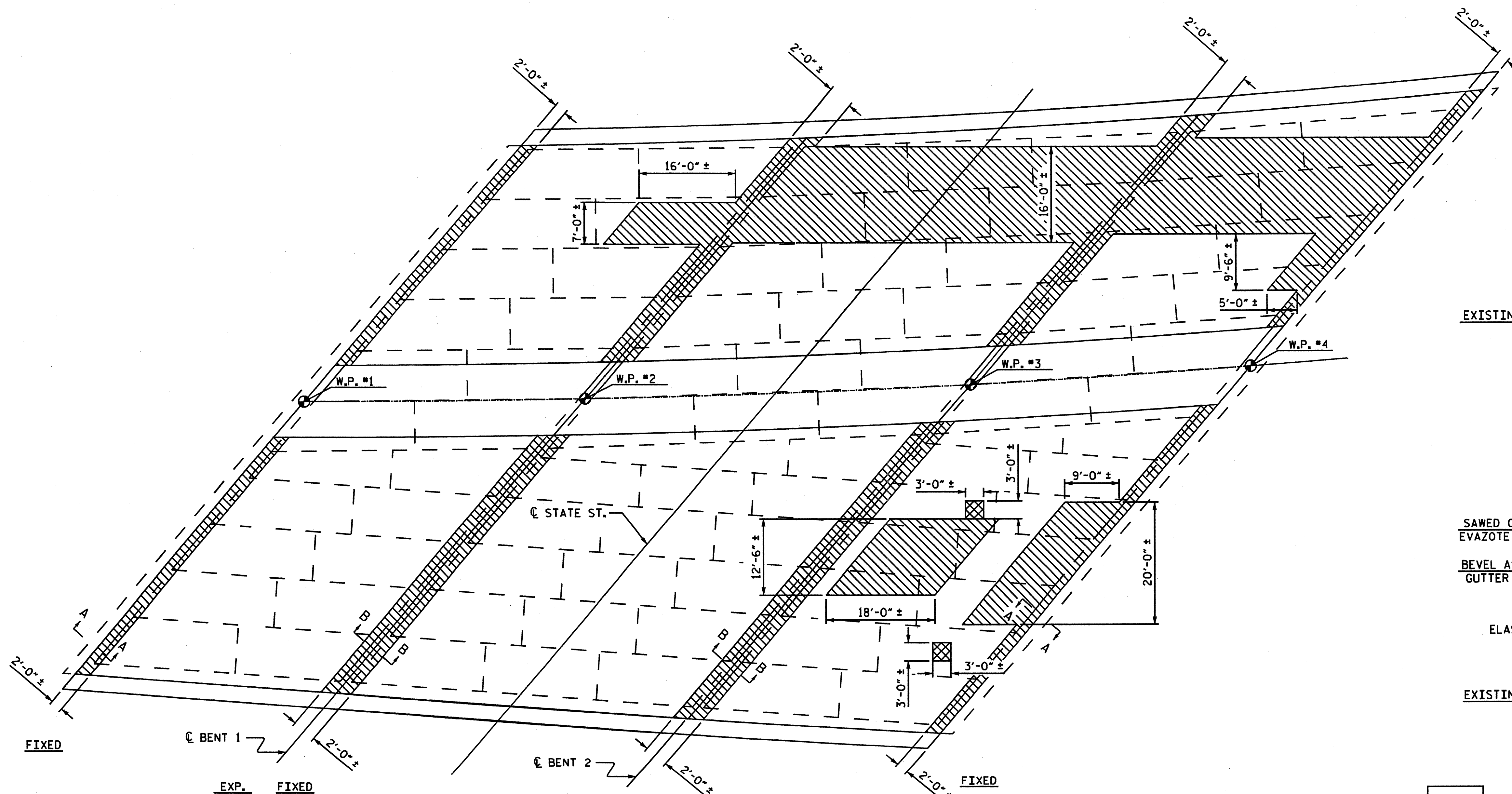
DRAWN BY: M.A. ALLEN DATE: 08-09  
 CHECKED BY: R.W. WRIGHT DATE: 08-09

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

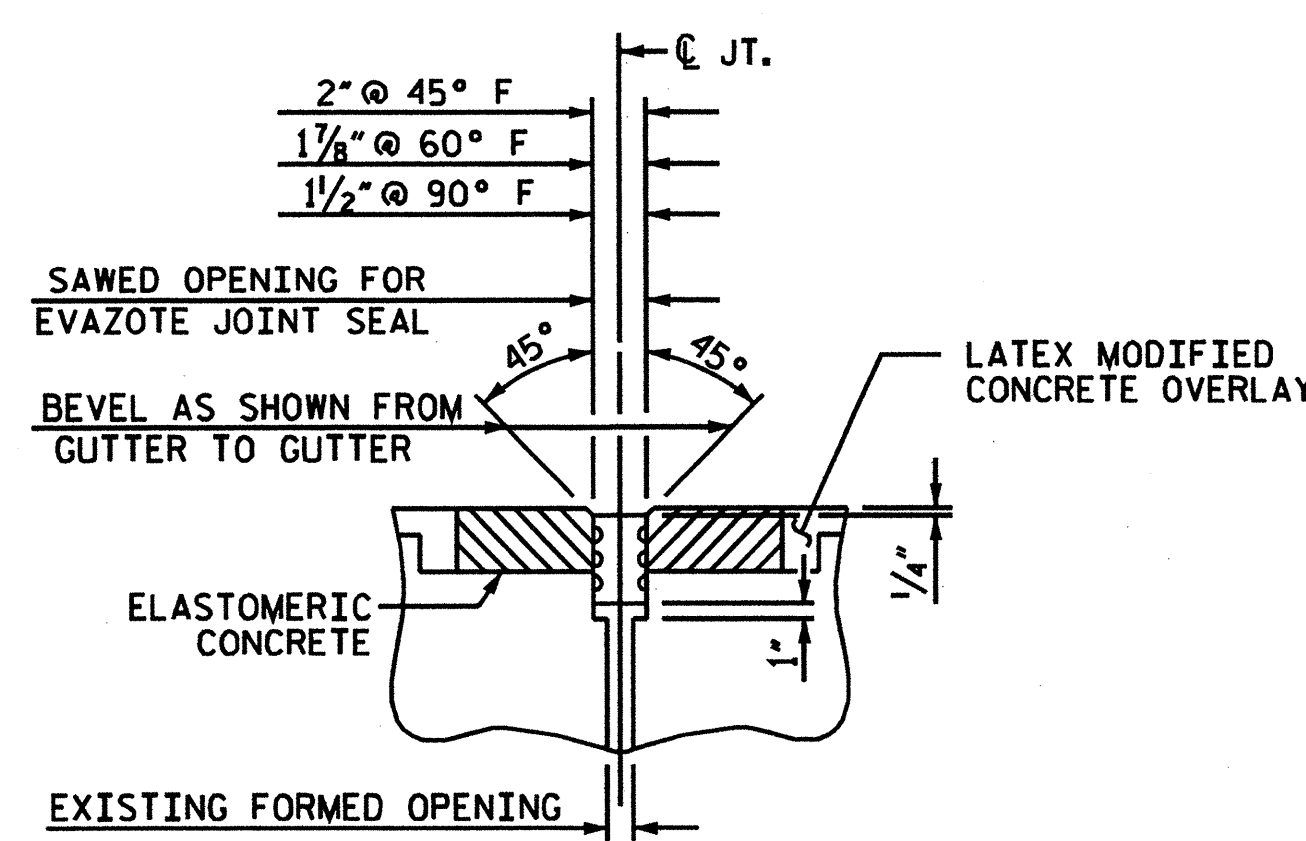
PLAN OF SPANS  
 FOR DECK REPAIR

DECK REHAB. FOR BRIDGE NO. 274

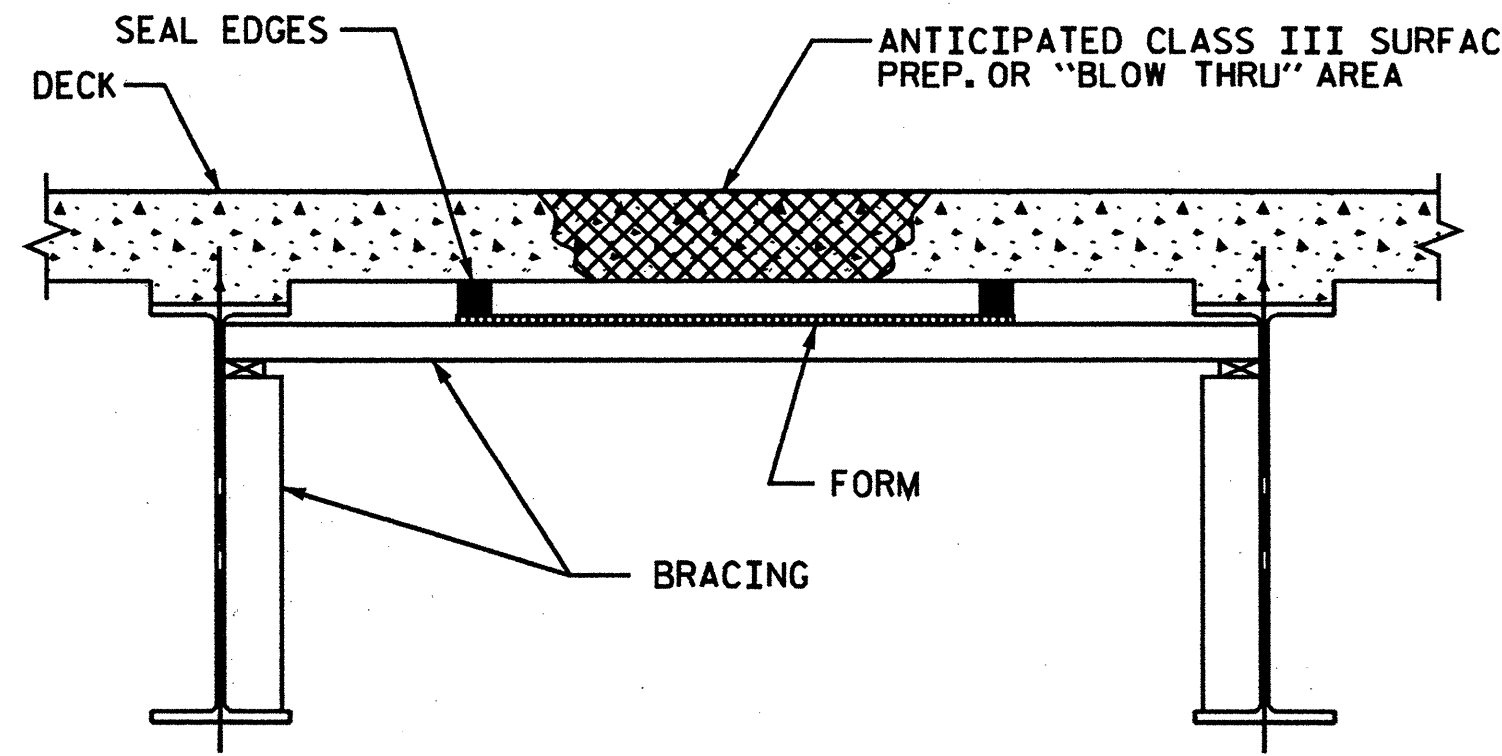
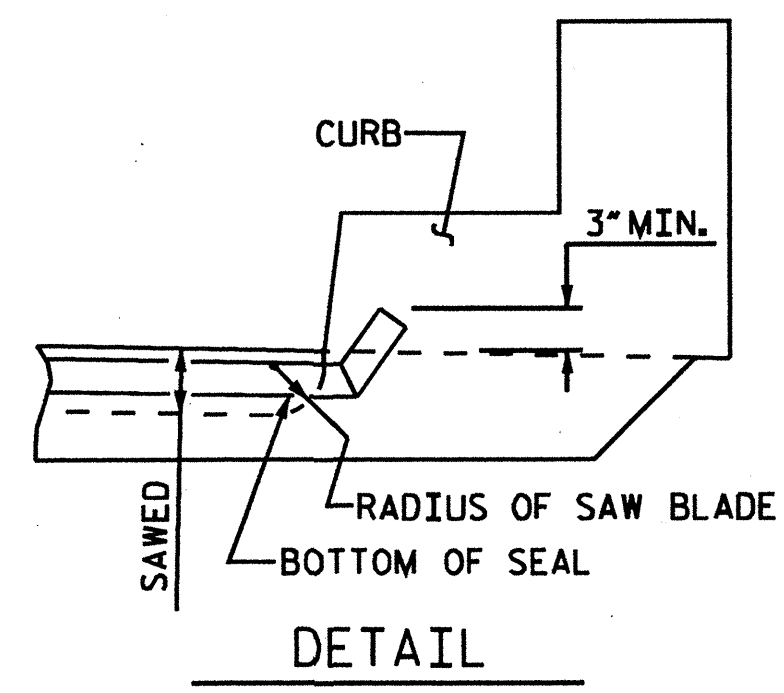
REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-14
1			3			TOTAL SHEETS
2			4			28



DETAIL B  
EVAZOTE JOINT SEAL  
(PRE-SAWED ELASTOMERIC  
CONCRETE DIMENSIONS)



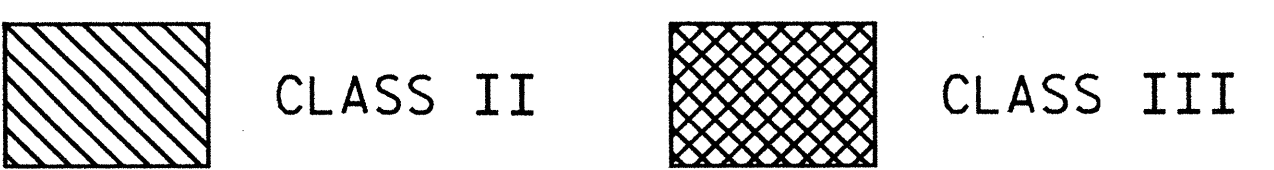
DETAIL B  
EVAZOTE JOINT SEAL  
(EXPANSION)



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.

PLAN OF SPANS - DECK REPAIRS



ELASTOMERIC CONCRETE	
BENT NO.	ELASTOMERIC CONCRETE * (CU. FT.)
E.B. 1	15.1
BENT 1	16.0
BENT 2	17.4
E.B. 2	18.7
TOTAL	67.2

\* BASED ON THE MINIMUM BLOCKOUT SHOWN.

PROJECT NO. B-5179B  
BUNCOMBE COUNTY  
STATION: 86+21.69 -L-

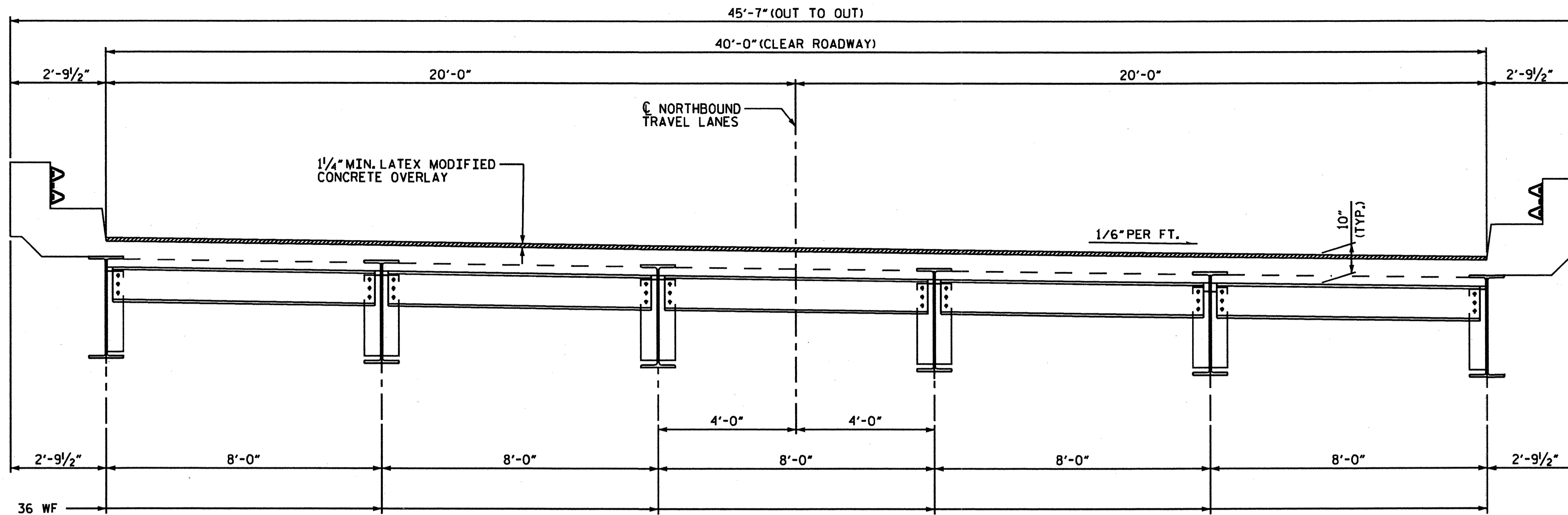
SHEET 2 OF 2

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH

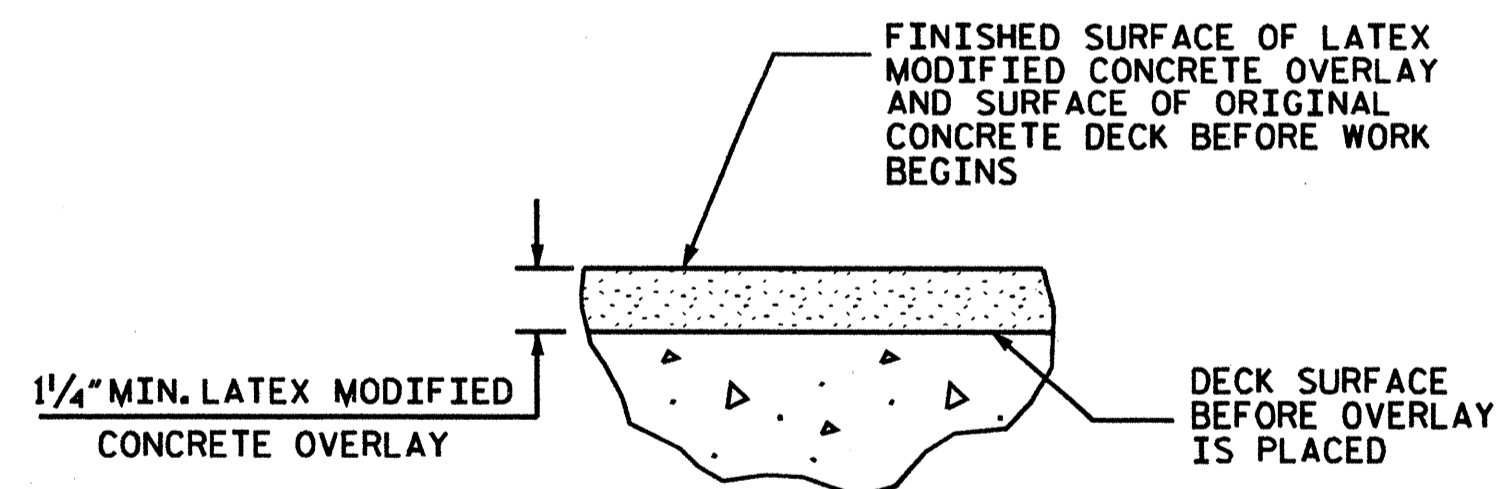
PLAN OF SPANS  
FOR DECK REPAIR

DECK REHAB. FOR BRIDGE NO. 274

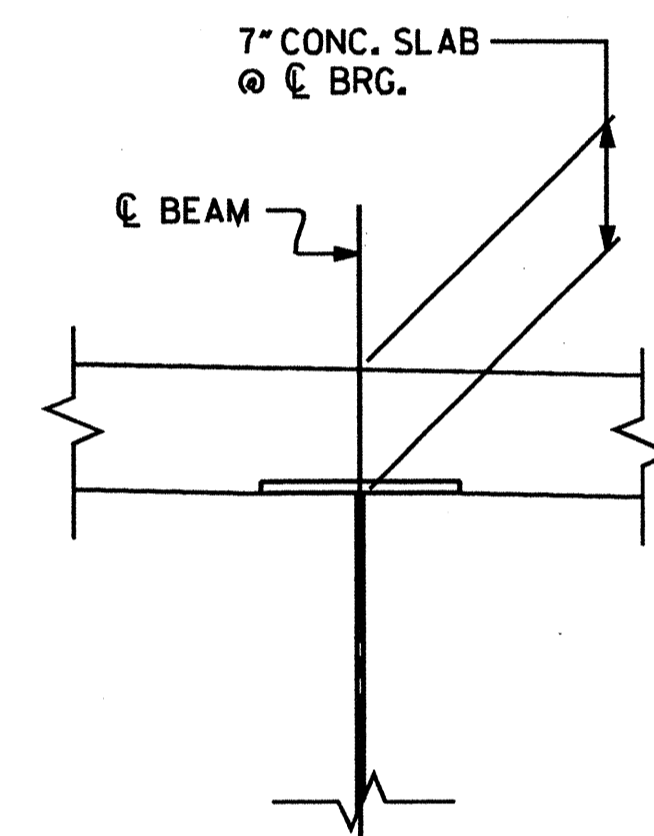
REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	S-15
1			3			TOTAL SHEETS 28
2			4			



TYP. SECTION  
(SHOWING DIAPHRAGMS AT EXPANSION JOINTS)



DETAIL FOR LATEX MODIFIED CONCRETE OVERLAY



EXIST. SLAB SECTION

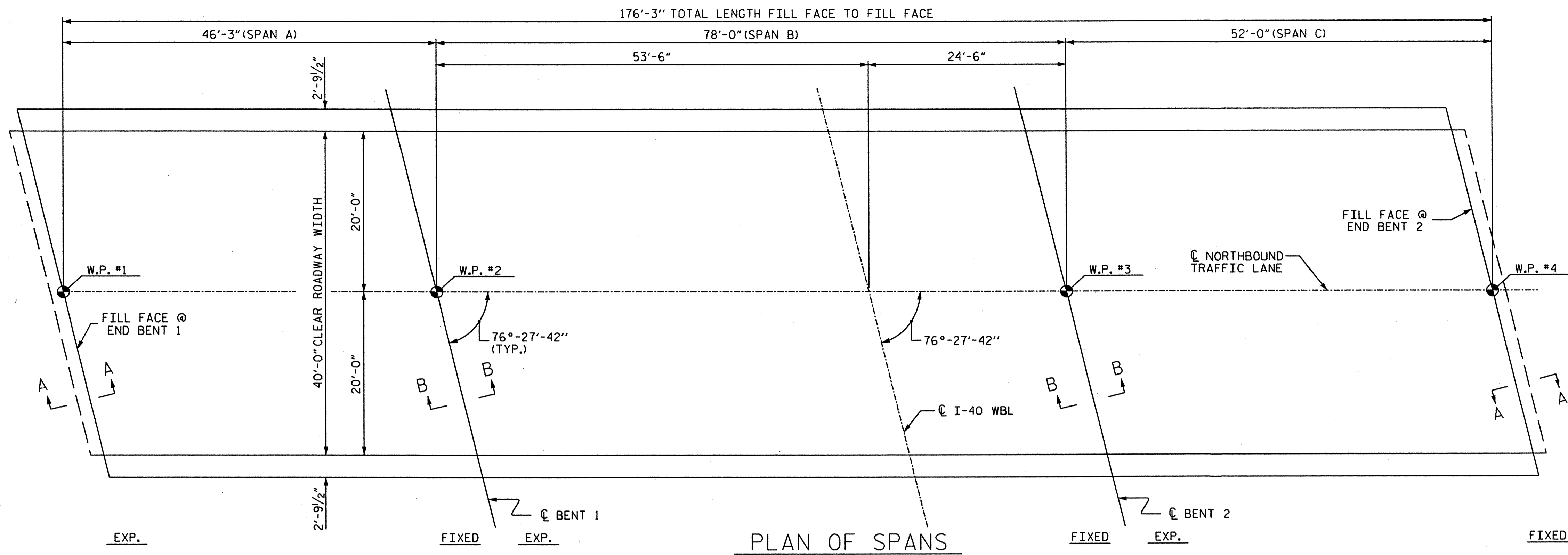
NOTES:

- 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.

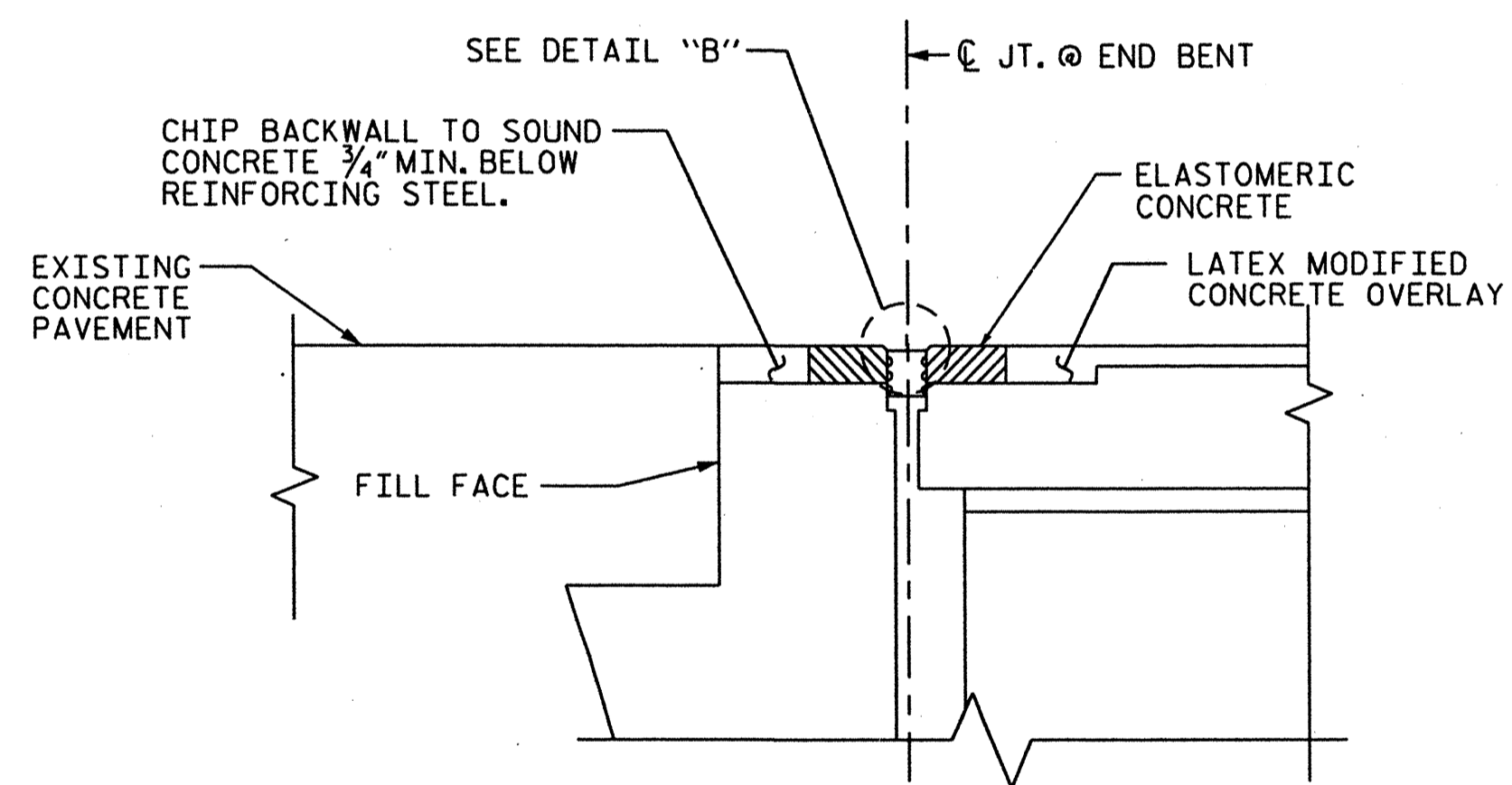
PROJECT NO. B-5179B  
BUNCOMBE COUNTY  
 STATION: 615+00.74 -L-

STATE OF NORTH CAROLINA						
DEPARTMENT OF TRANSPORTATION						
RALEIGH						
TYPICAL SECTION						
DECK REHAB. FOR BRIDGE NO. 283						
REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	5-16
1			3			TOTAL SHEETS
2			4			28

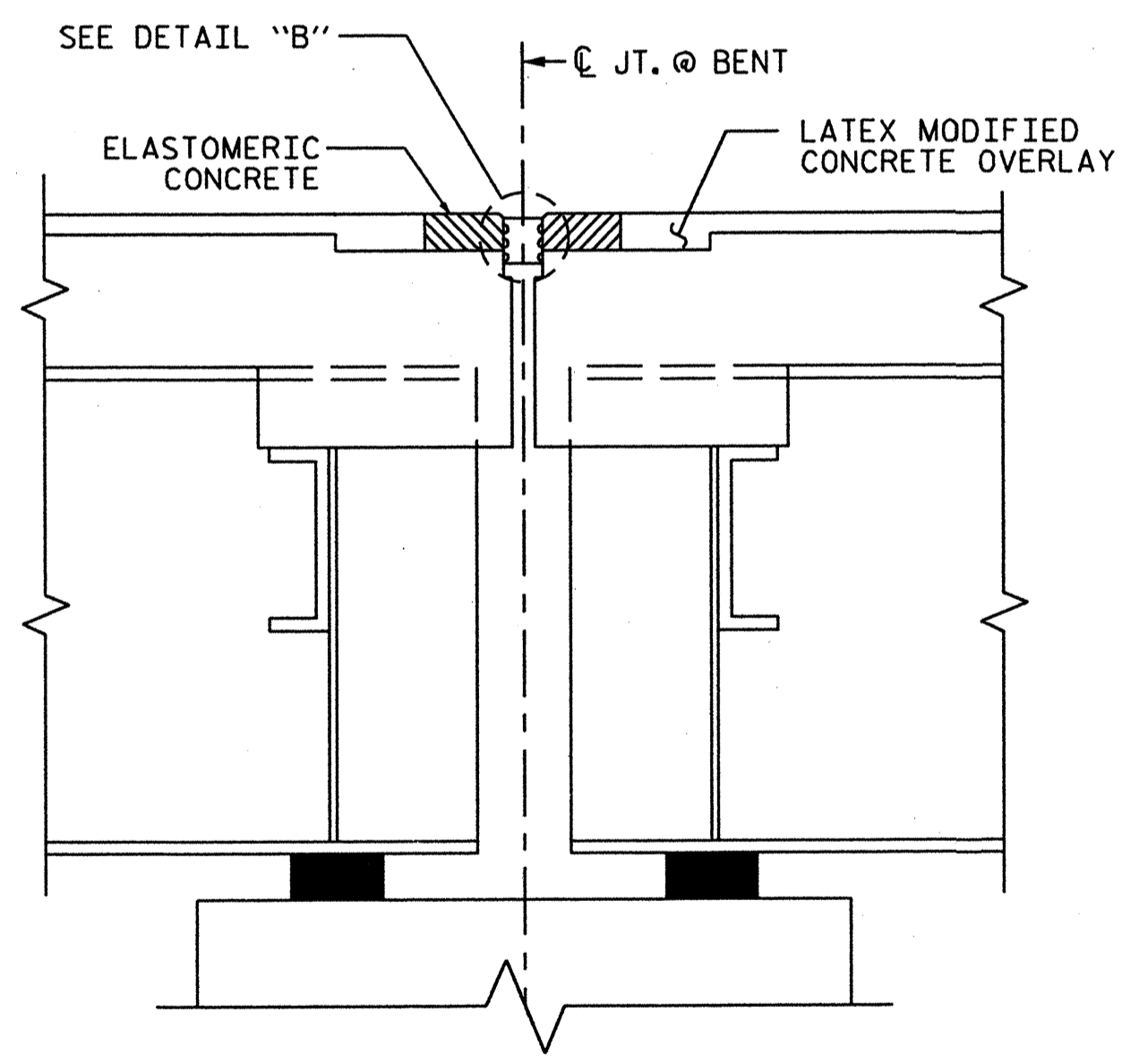
DRAWN BY : M.A. ALLEN DATE : 08-09  
 CHECKED BY : R.W. WRIGHT DATE : 08-09



PLAN OF SPANS



SECTION A-A  
(PROPOSED JOINT REPLACEMENT DETAIL)



SECTION B-B  
(PROPOSED JOINT REPLACEMENT DETAIL)

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	PLACING AND FINISHING LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH	EVAZOTE JOINT SEALS	GROOVING BRIDGE FLOORS
SO. YDS.	SO. YDS.	SO. YDS.	SO. YDS.	SO. FT.	SO. YDS.	CU. YDS.	CU. YDS.	SO. YDS.	LUMP SUM	SO. FT.
790	506	284	0	0	790	0	55	790	LUMP SUM	6520

\* QUANTITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.

\*\* NO LOCATIONS ARE ANTICIPATED. IF ANY LOCATIONS ARE ENCOUNTERED PRIOR TO OR DURING HYDRO-DEMOLITION, SEE "TYP. "BLOW THRU" CONTAINMENT AND FORMWORK" DETAIL.

PROJECT NO. B-5179B  
BUNCOMBE COUNTY  
STATION: 615+00.74 -L-

SHEET 1 OF 2

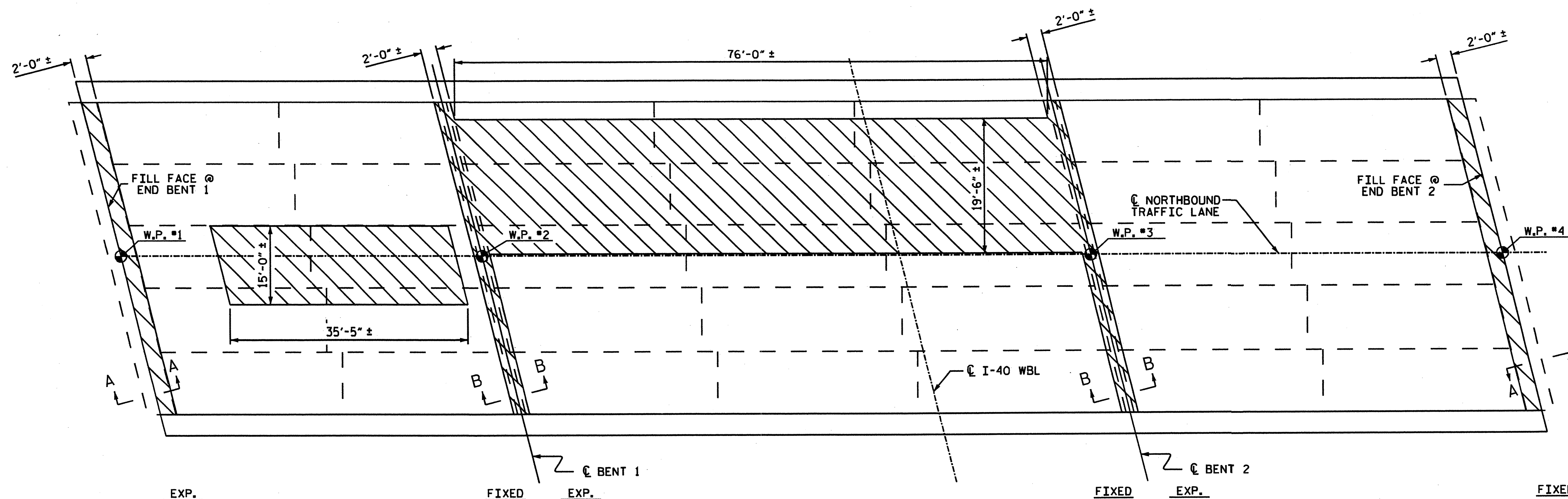
STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH

PLAN OF SPANS  
FOR DECK REPAIR

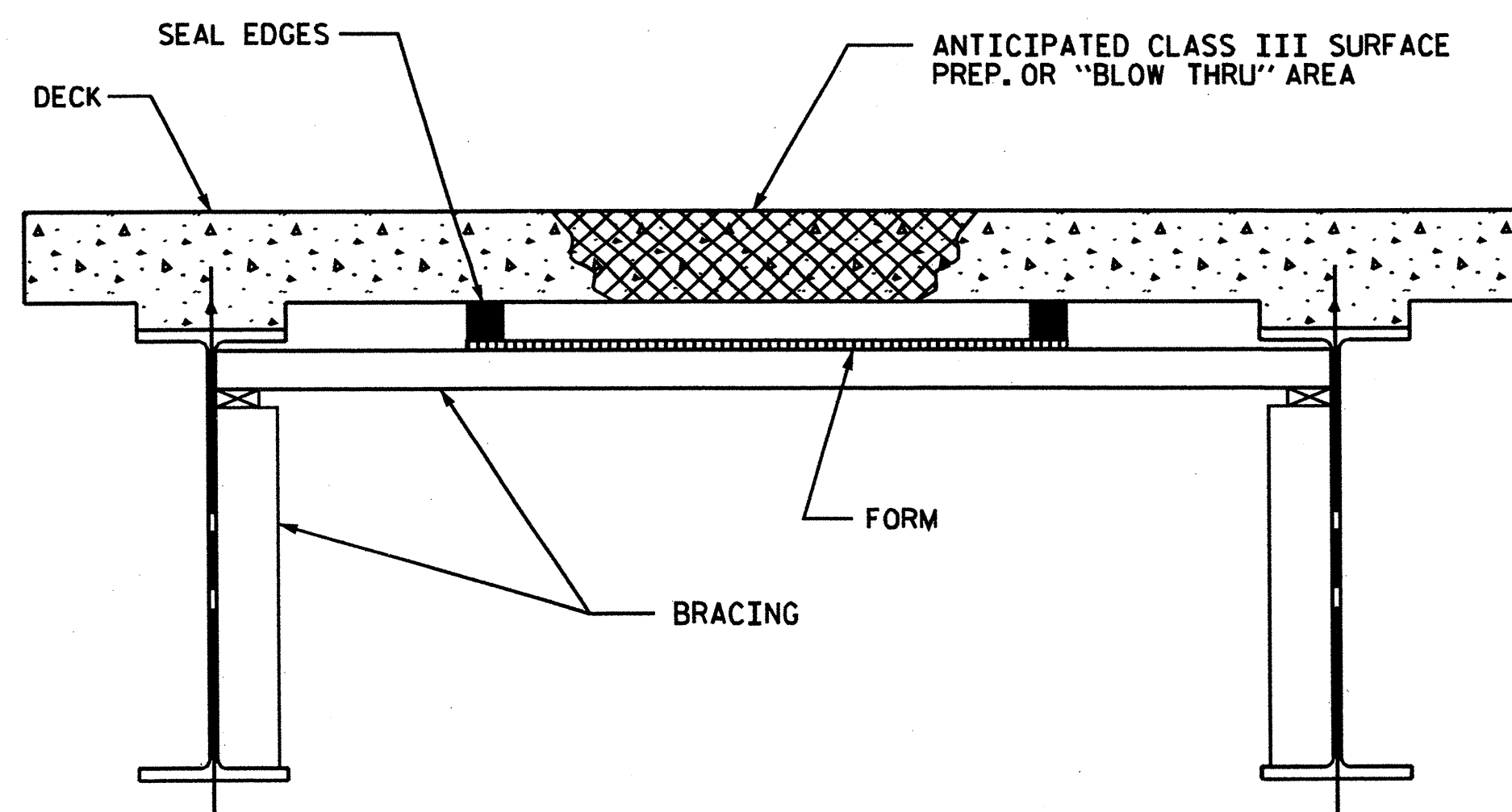
DECK REHAB. FOR BRIDGE NO. 283

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-17
1			3			TOTAL SHEETS 28
2			4			

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



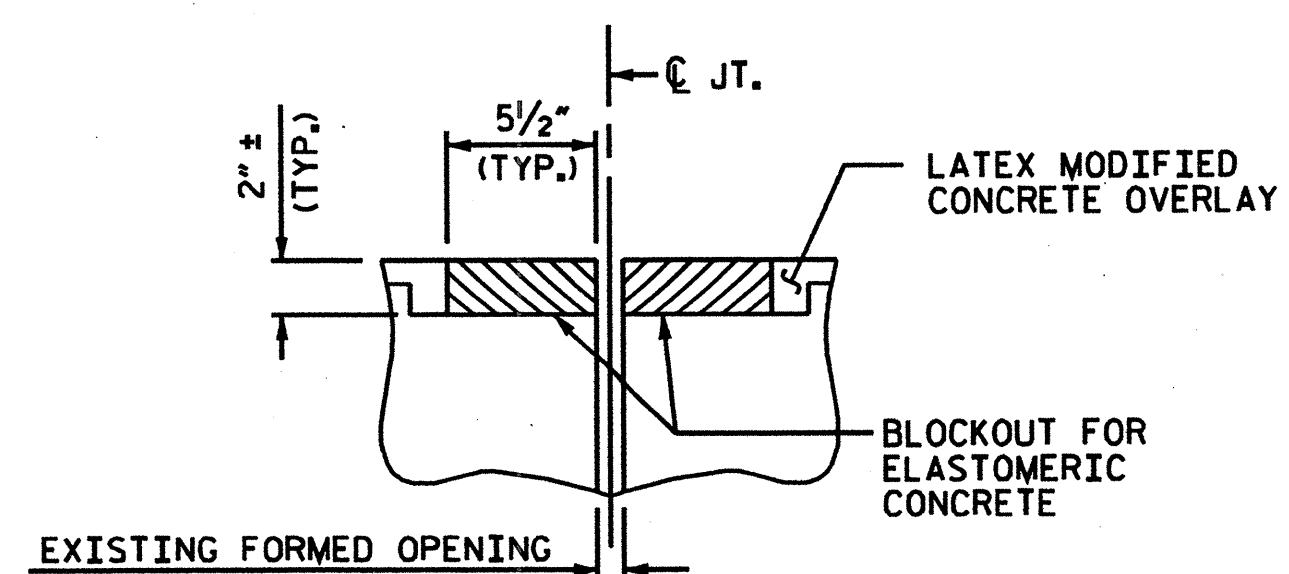
PLAN OF SPANS - DECK REPAIRS



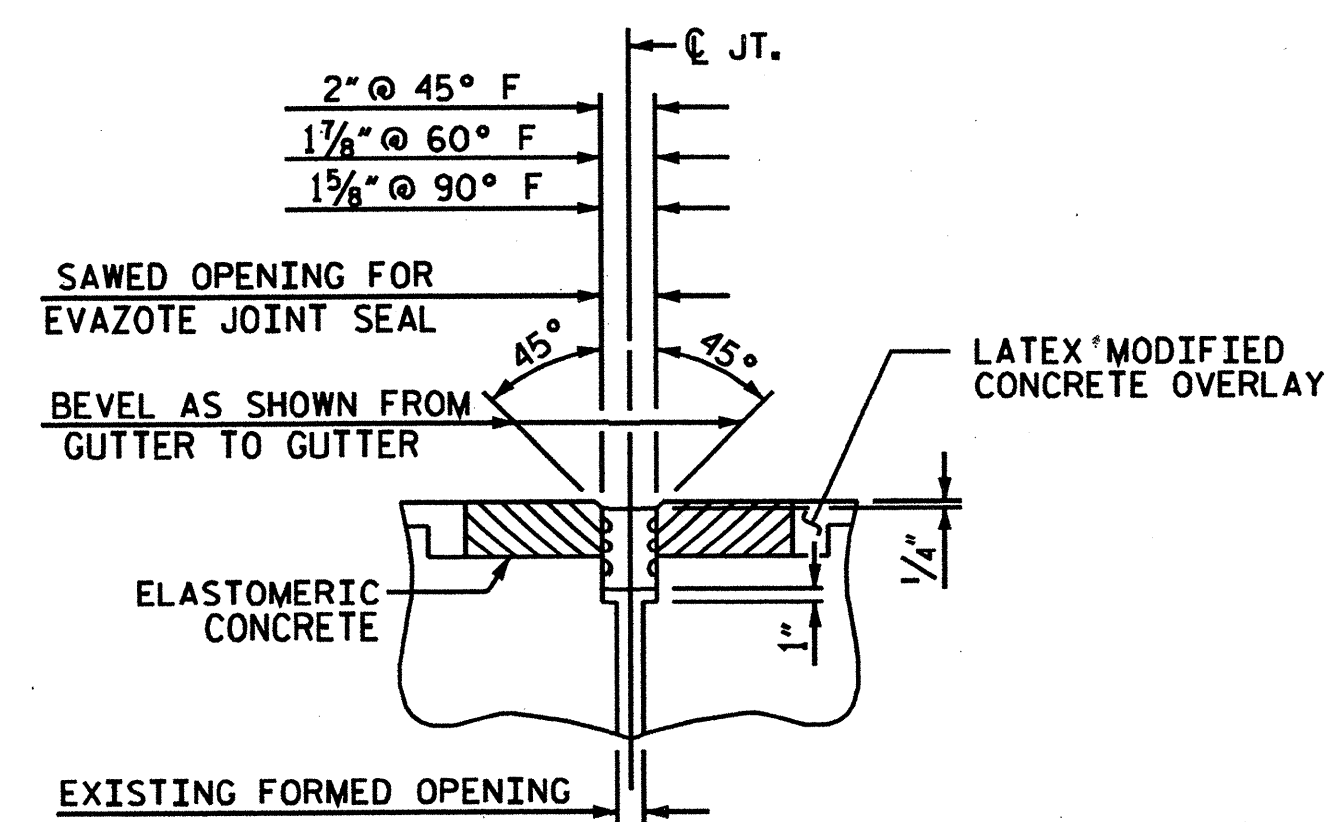
TYP. "BLOW THRU" CONTAINMENT AND FORMWORK

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.

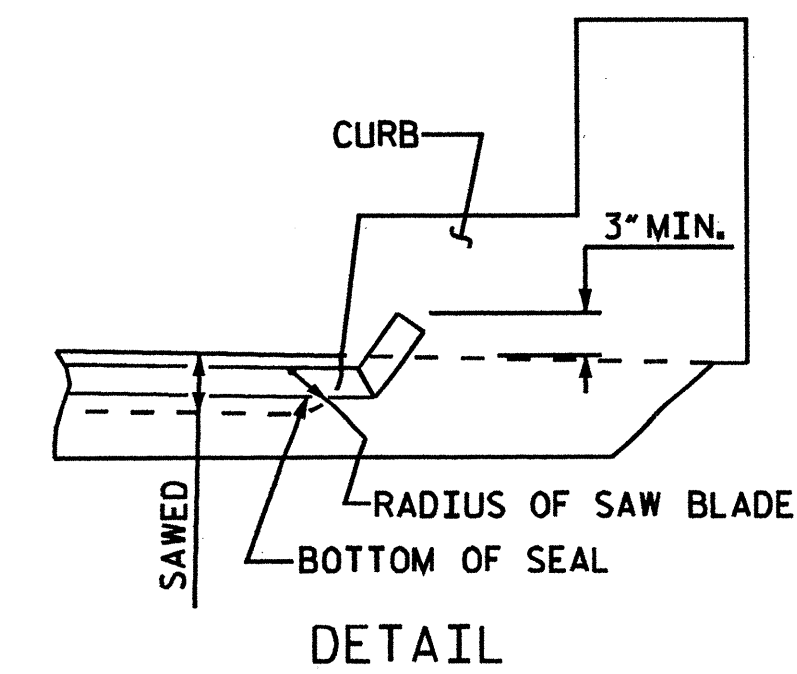


DETAIL B  
EVAZOTE JOINT SEAL  
(PRE-SAWED ELASTOMERIC CONCRETE DIMENSIONS)



DETAIL B  
EVAZOTE JOINT SEAL  
(EXPANSION)

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



DETAIL

PROJECT NO. B-5179B  
BUNCOMBE COUNTY  
STATION: 615+00.74 -L-

SHEET 2 OF 2

ELASTOMERIC CONCRETE	
BENT NO.	ELASTOMERIC CONCRETE * (CU. FT.)
E.B. 1	6.3
BENT 1	6.3
BENT 2	6.3
E.B. 2	6.3
TOTAL	25.2

\* BASED ON THE MINIMUM BLOCKOUT SHOWN.

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH

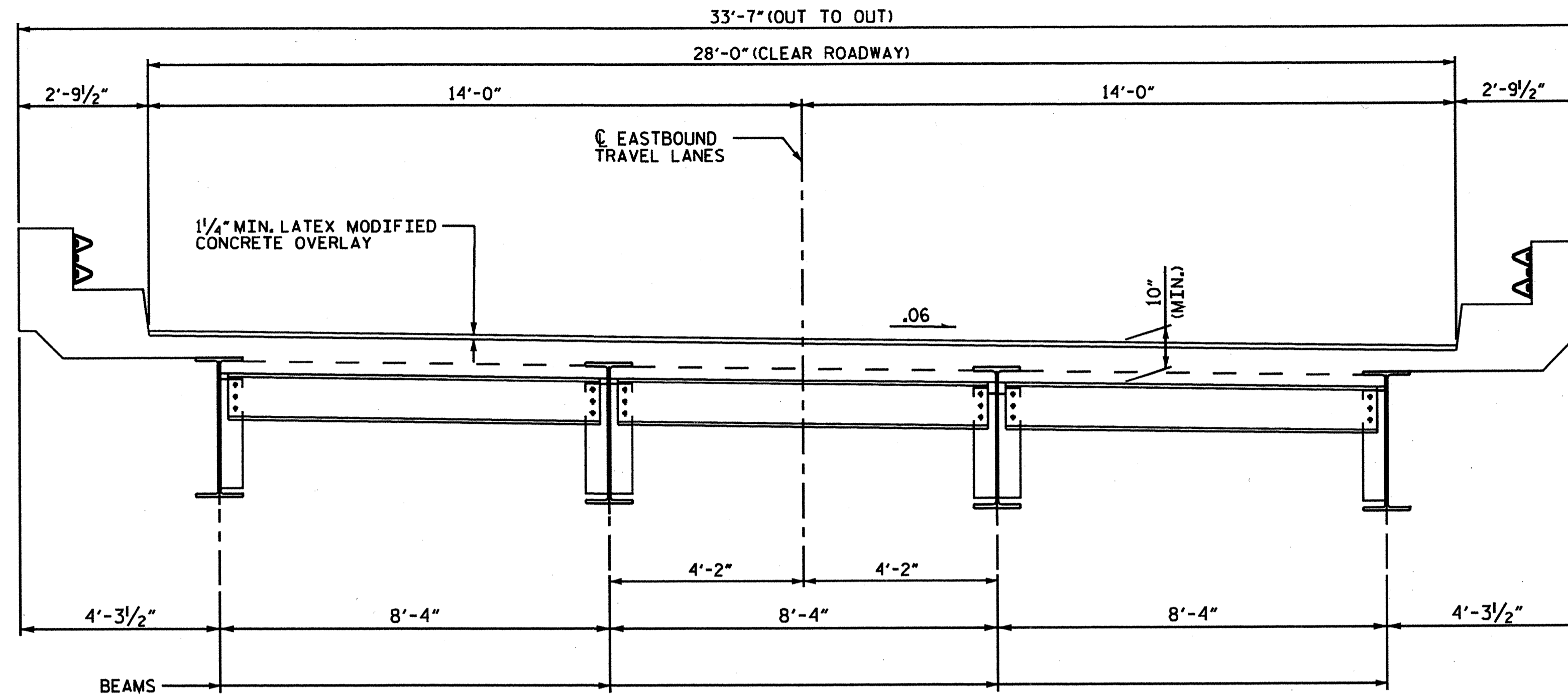
PLAN OF SPANS  
FOR DECK REPAIR

DECK REHAB. FOR BRIDGE NO. 283

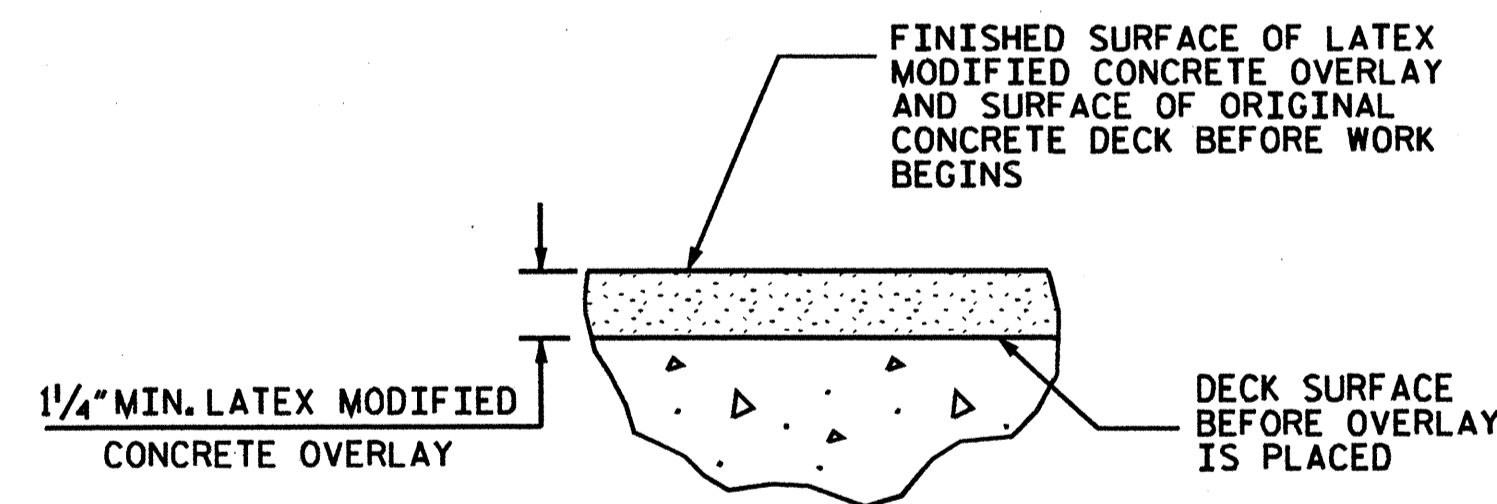
REVISIONS					SHEET NO.
NO.	BY	DATE	NO.	DATE	S-18
1			3		TOTAL SHEETS 28
2			4		

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

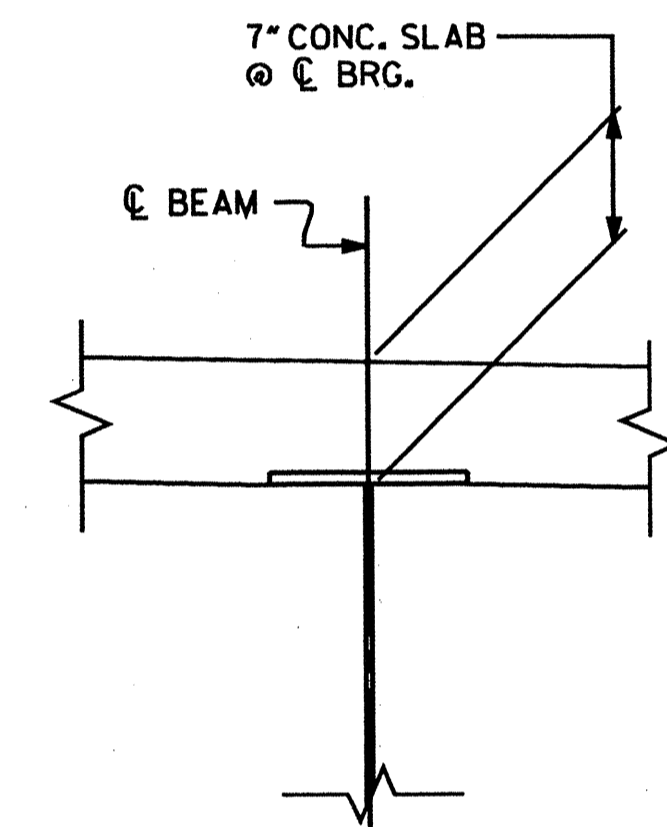




TYP. SECTION  
(SHOWING DIAPHRAGMS AT EXPANSION JOINTS)



DETAIL FOR LATEX  
MODIFIED CONCRETE OVERLAY



EXIST. SLAB SECTION

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.

PROJECT NO. B-5179B  
BUNCOMBE COUNTY  
 STATION: 617+63.12 -L-

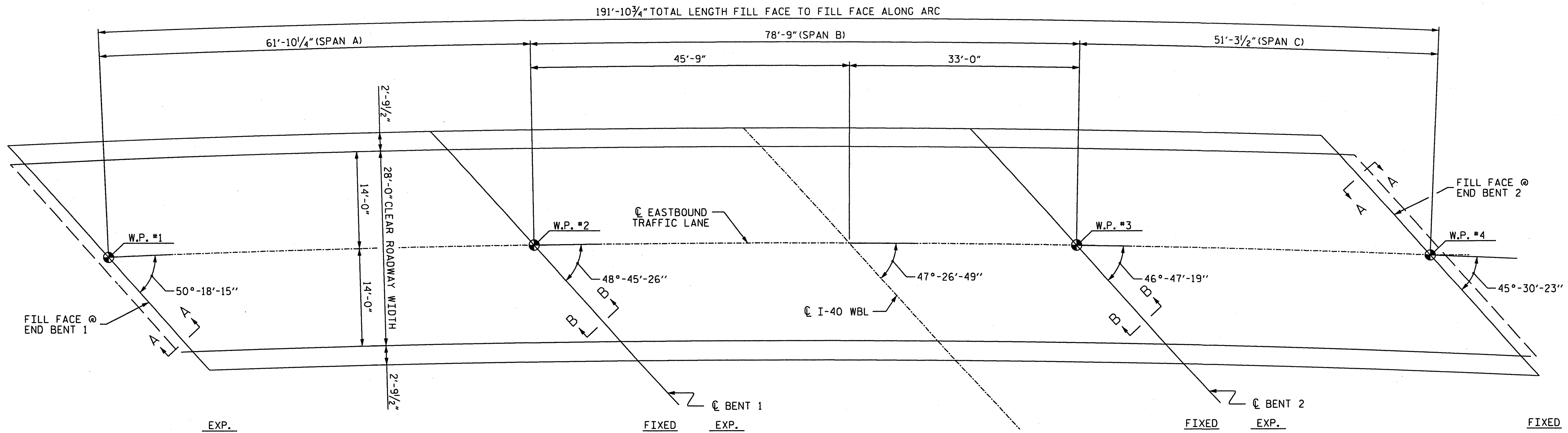
STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

TYPICAL SECTION

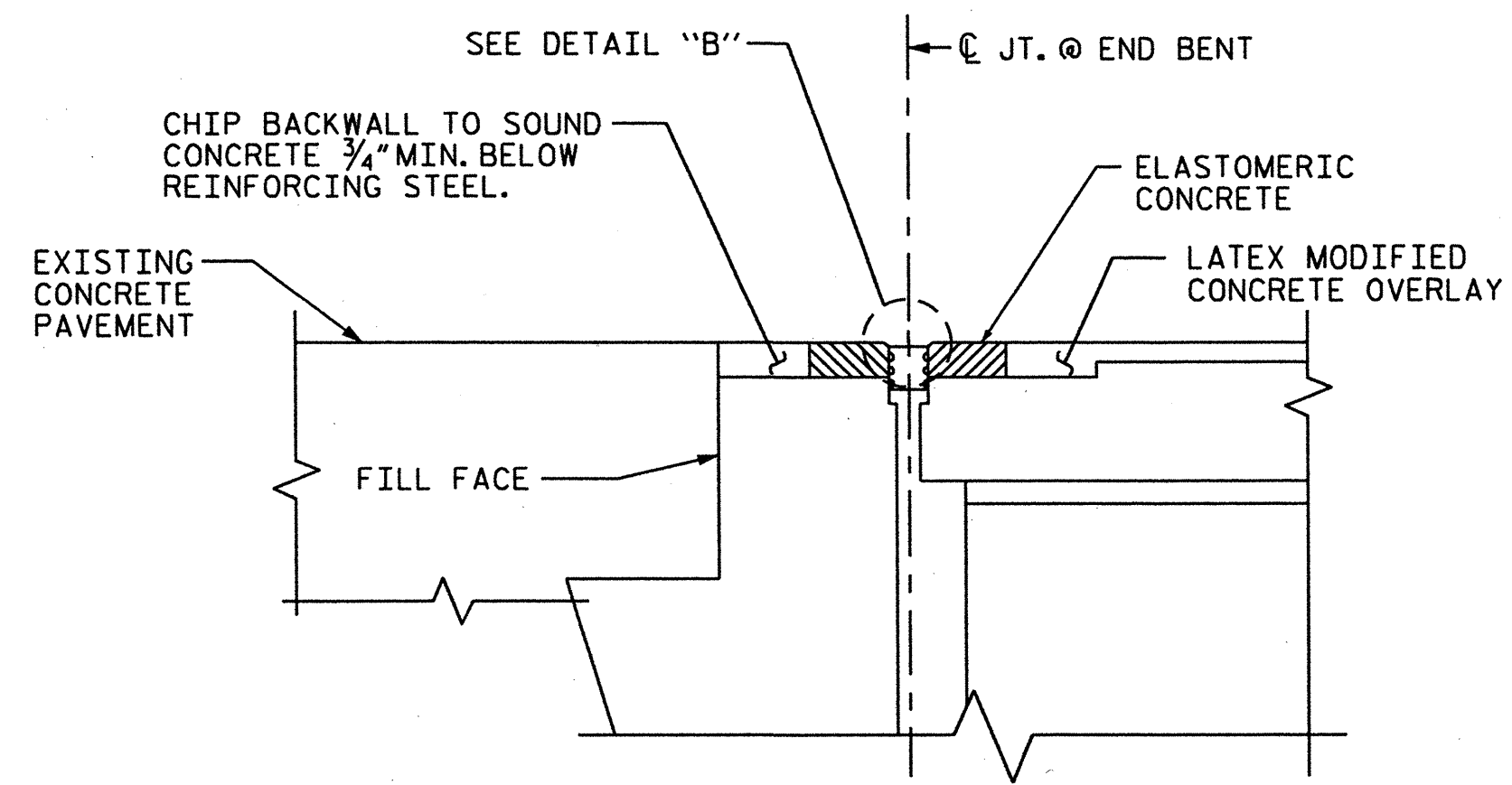
DECK REHAB. FOR BRIDGE NO. 285

REVISIONS						SHEET NO.
NO.	BYs	DATEs	NO.	BYs	DATEs	S-19
1			3			TOTAL SHEETS
2			4			28

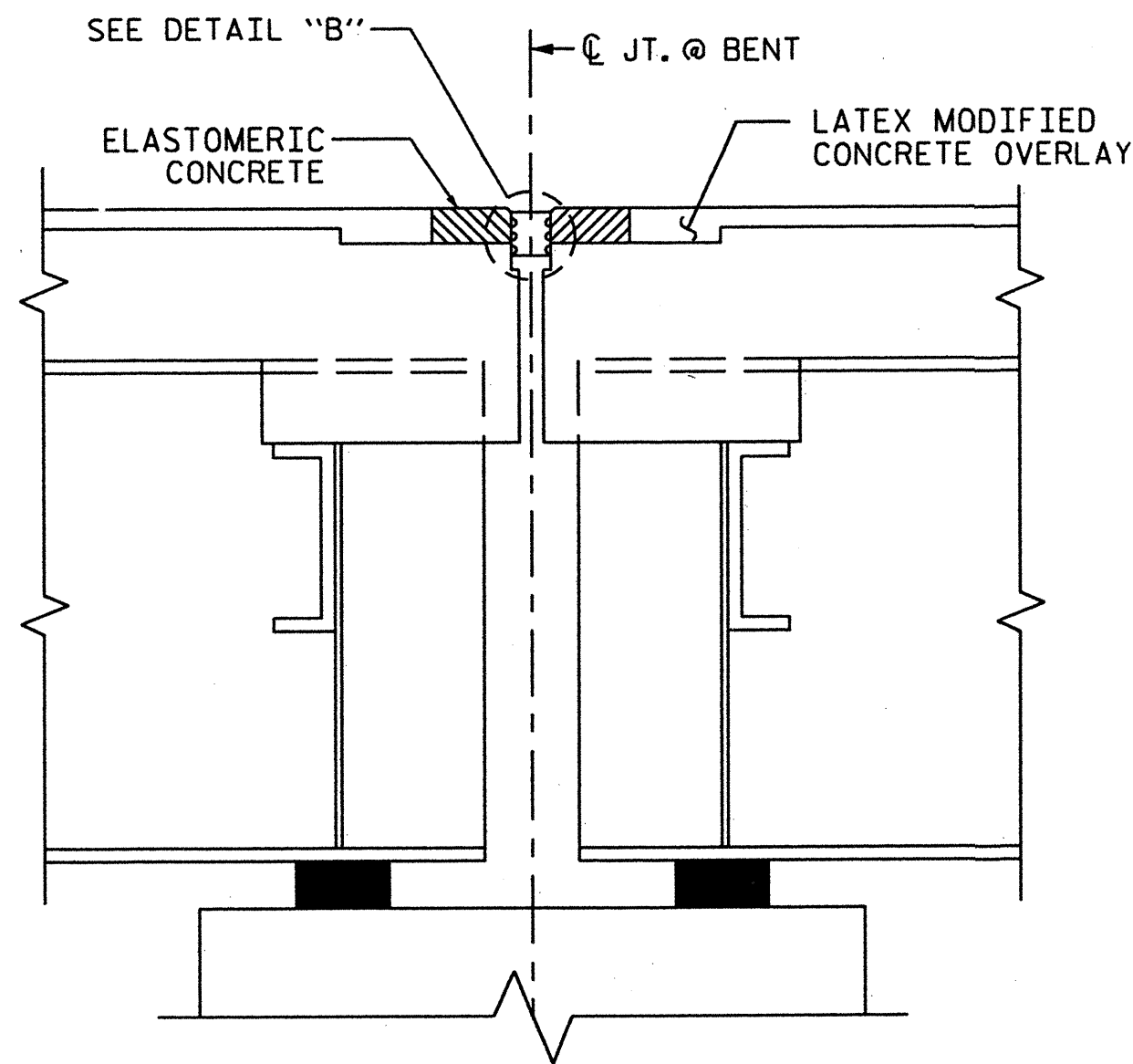
DRAWN BY : M.A. ALLEN DATE : 08-09  
 CHECKED BY : R.W. WRIGHT DATE : 08-09



PLAN OF SPANS



SECTION A-A  
(PROPOSED JOINT REPLACEMENT DETAIL)



SECTION B-B  
(PROPOSED JOINT REPLACEMENT DETAIL)

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	PLACING AND FINISHING LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH	EVAZOTE JOINT SEALS	GROOVING BRIDGE FLOORS
SQ. YDS.	SQ. YDS.	SQ. YDS.	SQ. YDS.	SQ. FT.	SQ. YDS.	CU. YDS.	CU. YDS.	SQ. YDS.	LUMP SUM	SQ. FT.
600	508	92	0	0	600	0	42	600	LUMP SUM	4800

\* QUANTITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.

\*\* NO LOCATIONS ARE ANTICIPATED. IF ANY LOCATIONS ARE ENCOUNTERED PRIOR TO OR DURING HYDRO-DEMOLITION, SEE "TYP. "BLOW THRU" CONTAINMENT AND FORMWORK" DETAIL.

PROJECT NO. B-5179B  
BUNCOMBE COUNTY  
 STATION: 617+63.12 -L-

SHEET 1 OF 2

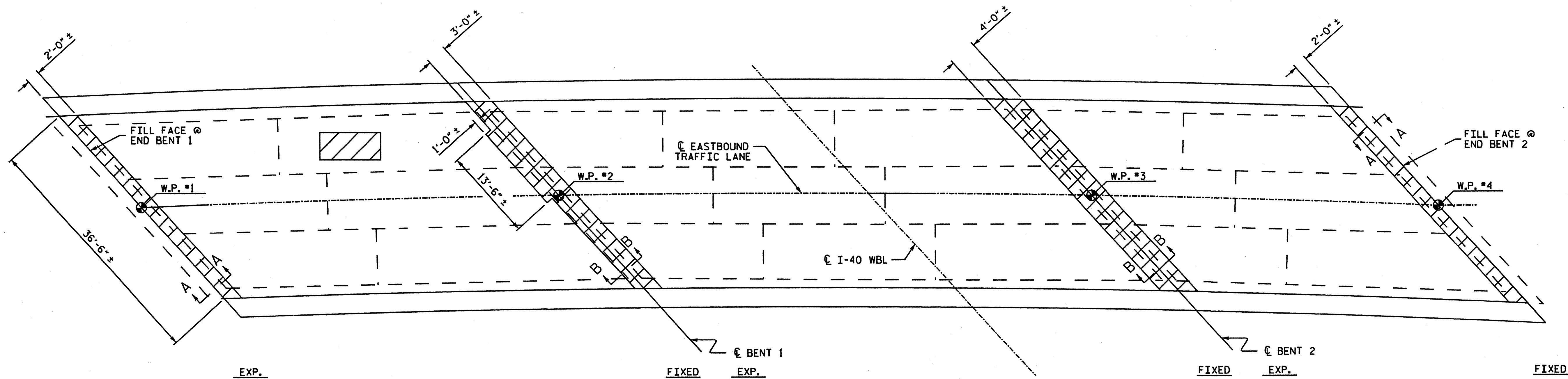
STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

PLAN OF SPANS  
 FOR DECK REPAIR

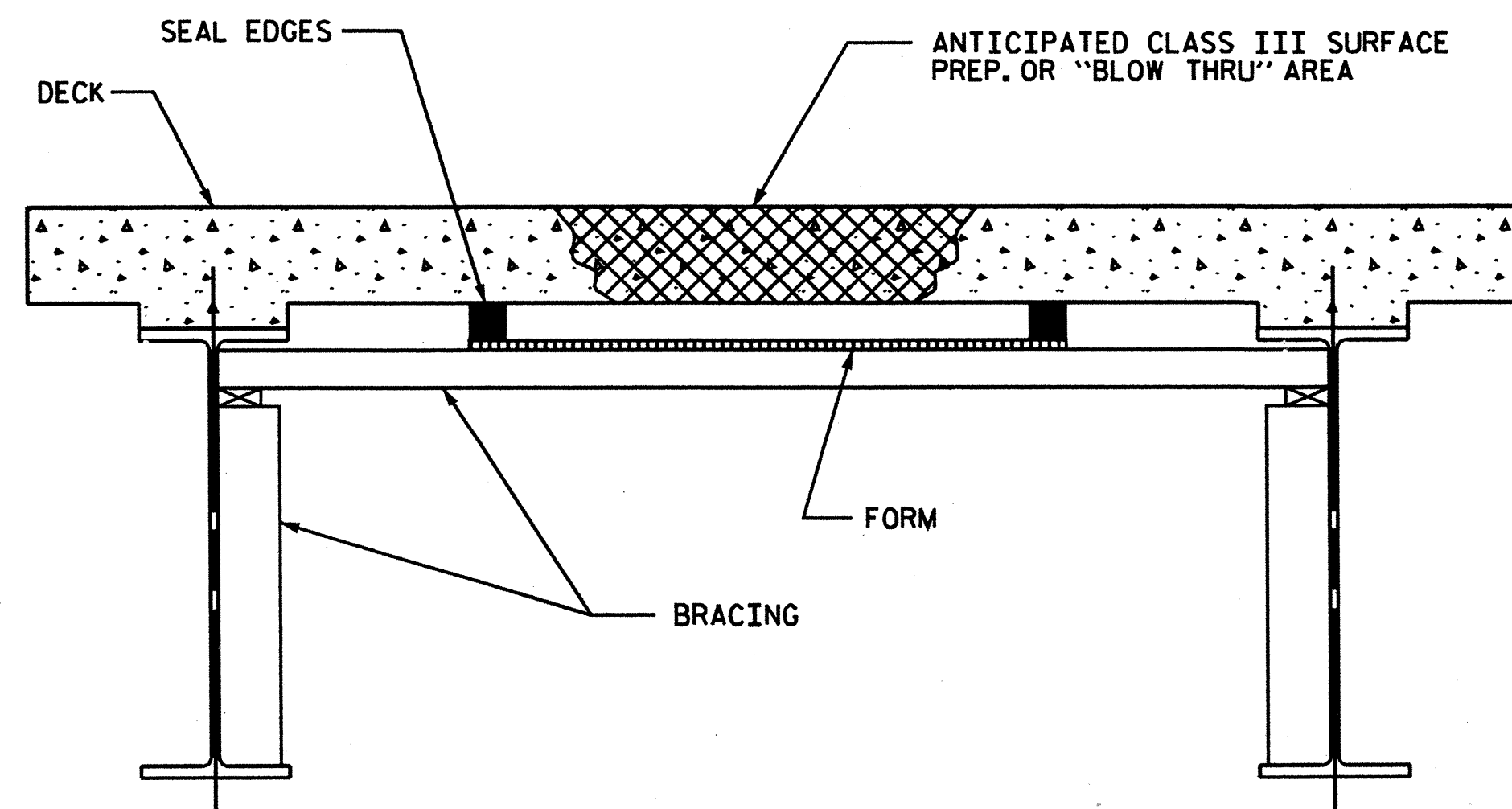
DECK REHAB. FOR BRIDGE NO. 285

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	5-20
1			3			TOTAL SHEETS 28
2			4			

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



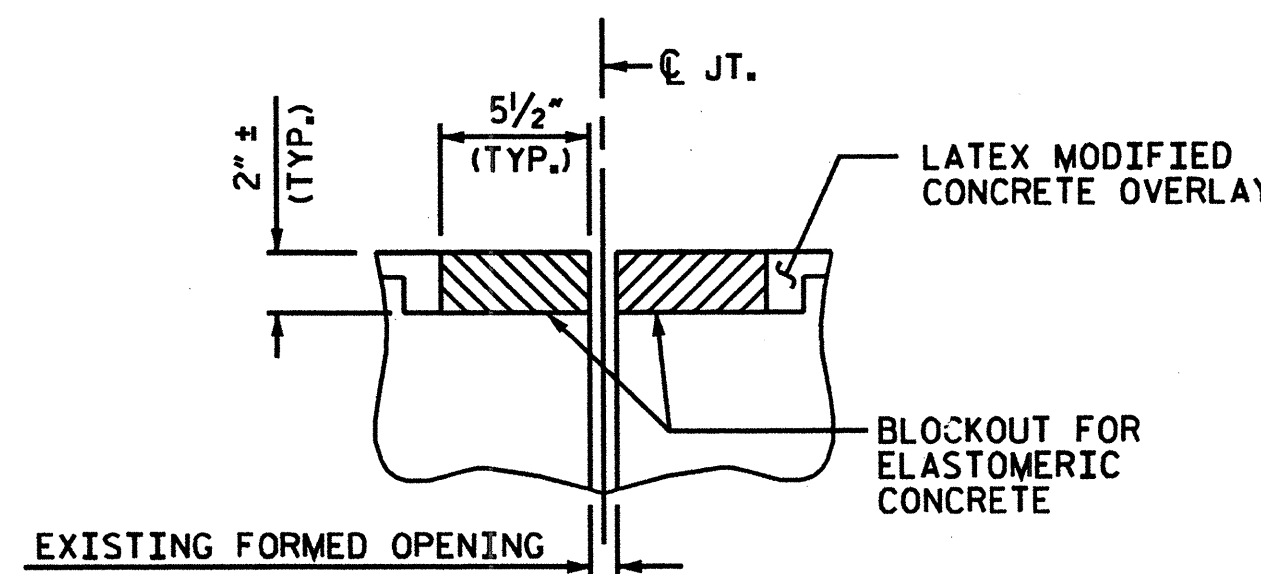
PLAN OF SPANS - DECK REPAIRS



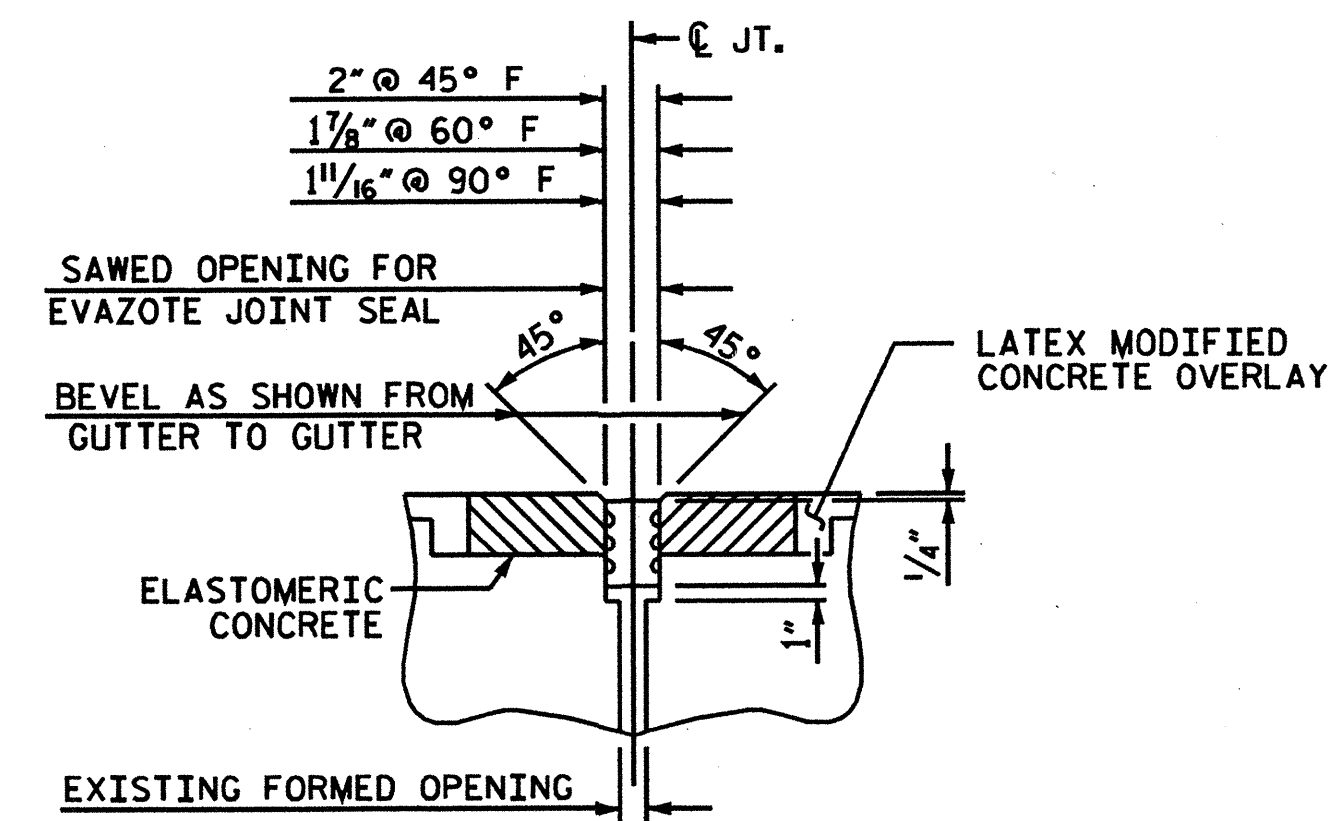
TYP. "BLOW THRU" CONTAINMENT AND FORMWORK

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.

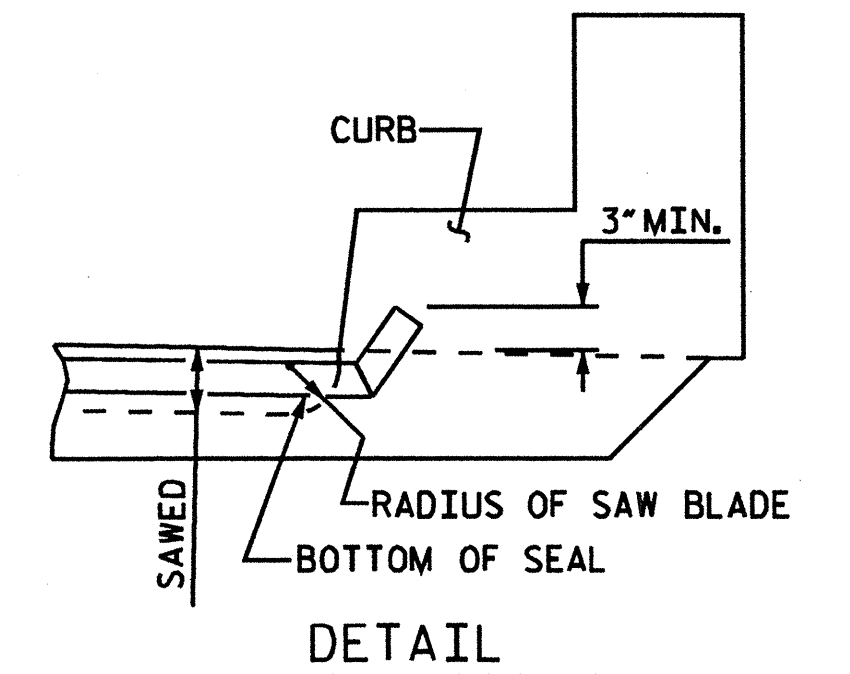


DETAIL B  
EVAZOTE JOINT SEAL  
(PRE-SAWED ELASTOMERIC  
CONCRETE DIMENSIONS)



DETAIL B  
EVAZOTE JOINT SEAL  
(EXPANSION)

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



DETAIL

ELASTOMERIC CONCRETE	
BENT NO.	ELASTOMERIC CONCRETE * (CU. FT.)
E.B. 1	5.8
BENT 1	5.8
BENT 2	5.8
E.B. 2	5.8
TOTAL	23.2

\* BASED ON THE MINIMUM BLOCKOUT SHOWN.

PROJECT NO. B-5179B  
BUNCOMBE COUNTY  
 STATION: 617+63.12 -L-

SHEET 2 OF 2

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

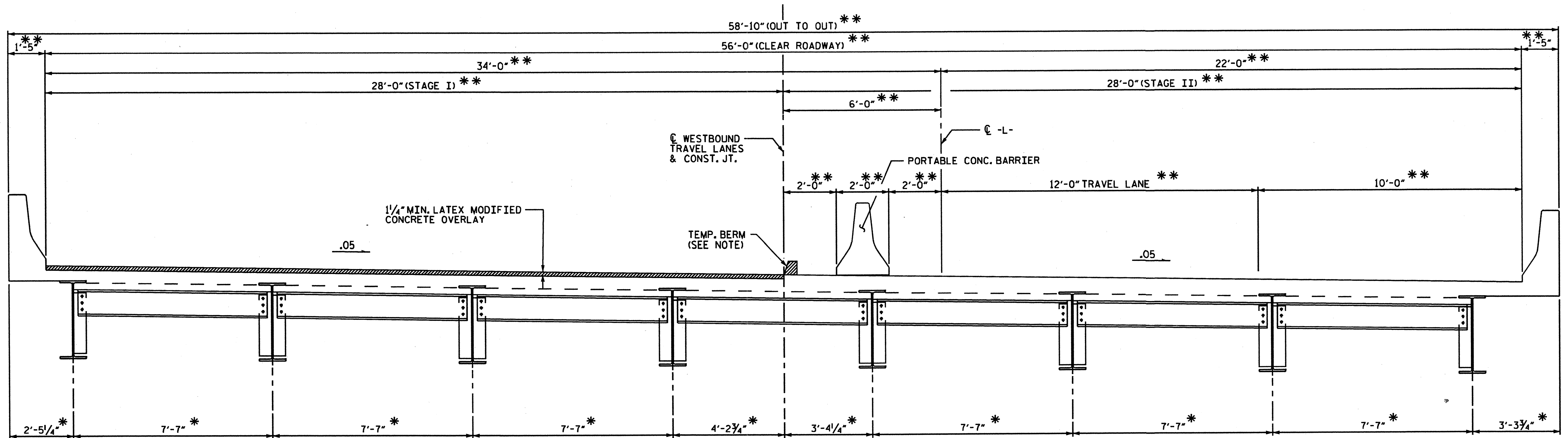
PLAN OF SPANS  
 FOR DECK REPAIR

DECK REHAB. FOR BRIDGE NO. 285

REVISIONS				SHEET NO.
NO.	BY	DATE	NO.	DATE
1			3	
2			4	

S-21  
TOTAL SHEETS 28

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



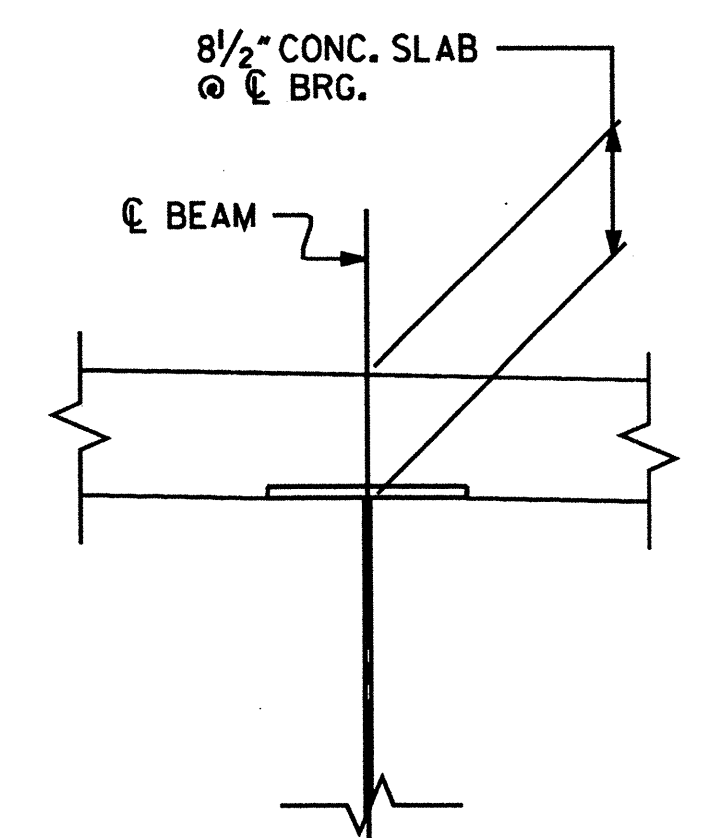
**TYP. SECTION - STAGE I**

(SHOWING DIAPHRAGMS AT EXPANSION JOINTS)

\* RADIAL THRU WORKPOINT

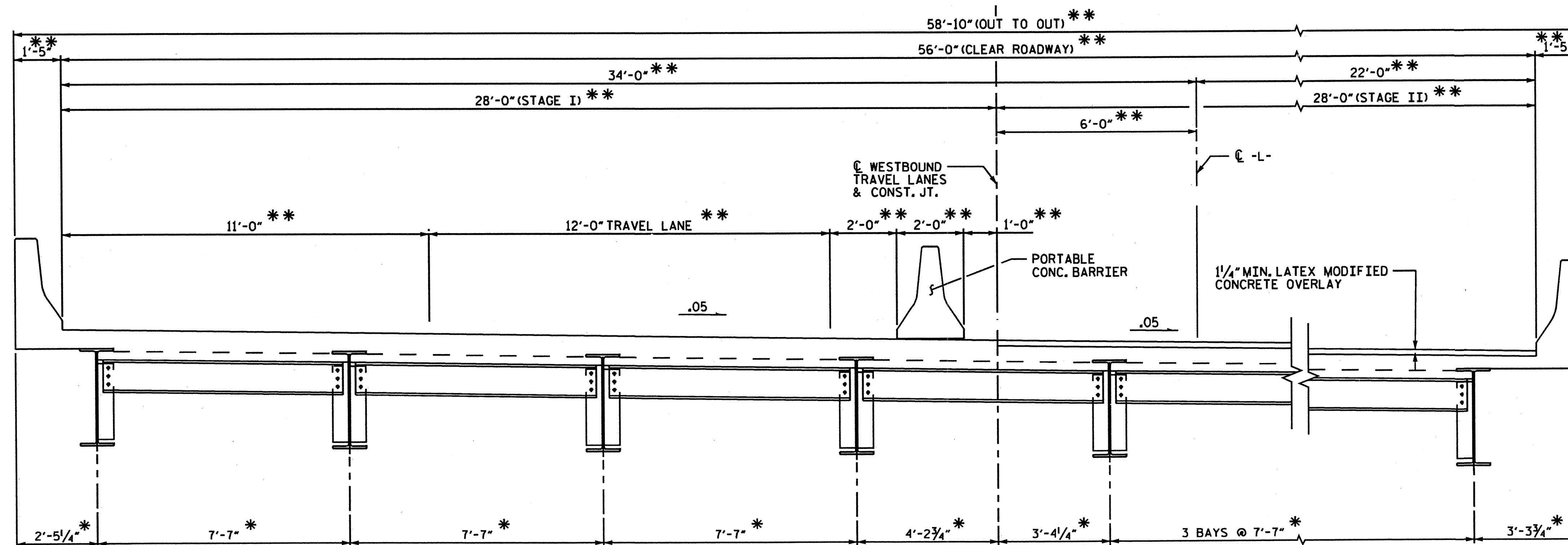
\*\* RADIAL DIMENSIONS

NOTE:  
WATER & CONCRETE SLURRY FROM HYDRO-DEMOLITION SHALL NOT BE ALLOWED TO DRAIN ACROSS TRAVEL LANES. CONTRACTOR SHALL PROVIDE A METHOD TO CONTROL THE WATER.



**EXIST. SLAB SECTION**

PROJECT NO. B-5179B  
BUNCOMBE COUNTY  
 STATION: 57+41.24 -L-



**TYP. SECTION - STAGE II**

(SHOWING DIAPHRAGMS AT EXPANSION JOINTS)

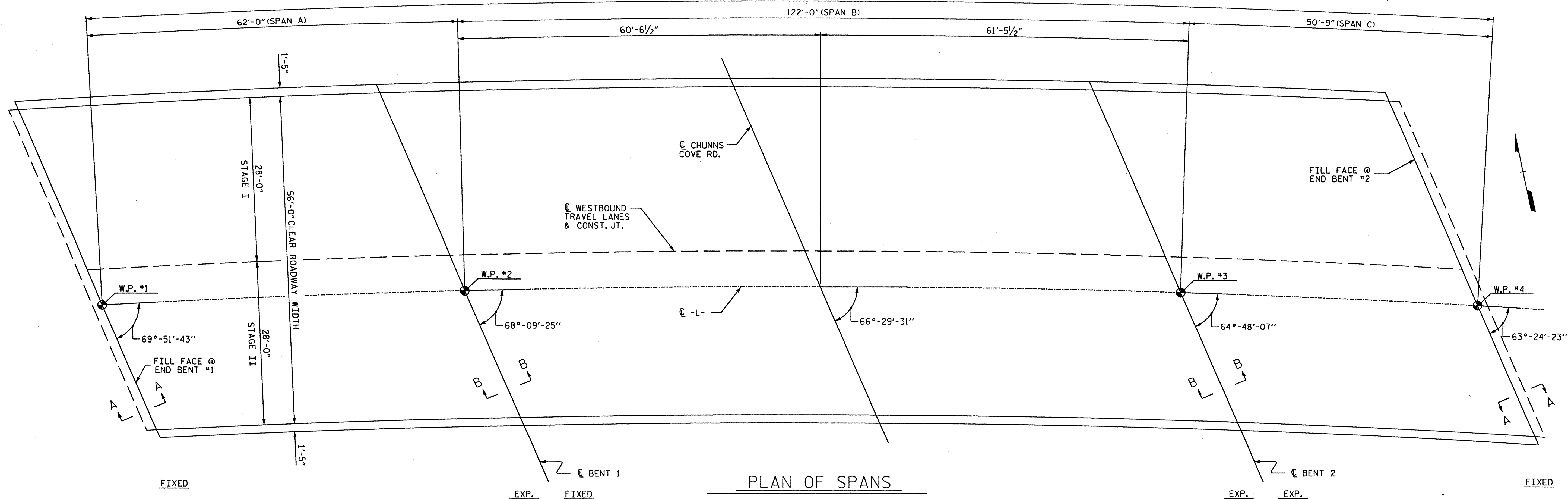
\* RADIAL THRU WORKPOINT

\*\* RADIAL DIMENSIONS

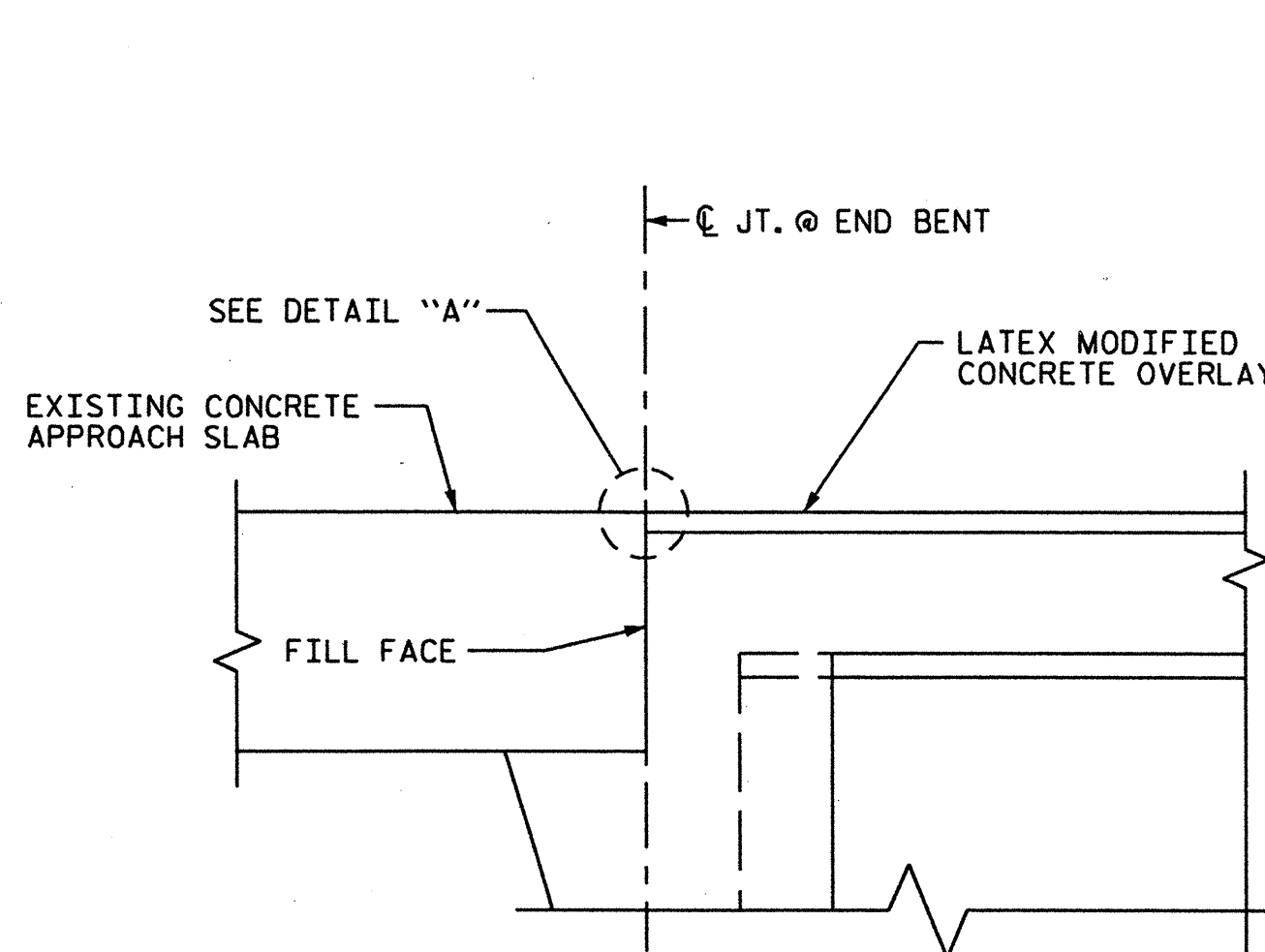
DRAWN BY : M.A. ALLEN DATE : 08-09  
 CHECKED BY : R.W. WRIGHT DATE : 08-09

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					SHEET NO.
TYPICAL SECTION					5-22
DECK REHAB. FOR BRIDGE NO. 439					TOTAL SHEETS
					28
REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

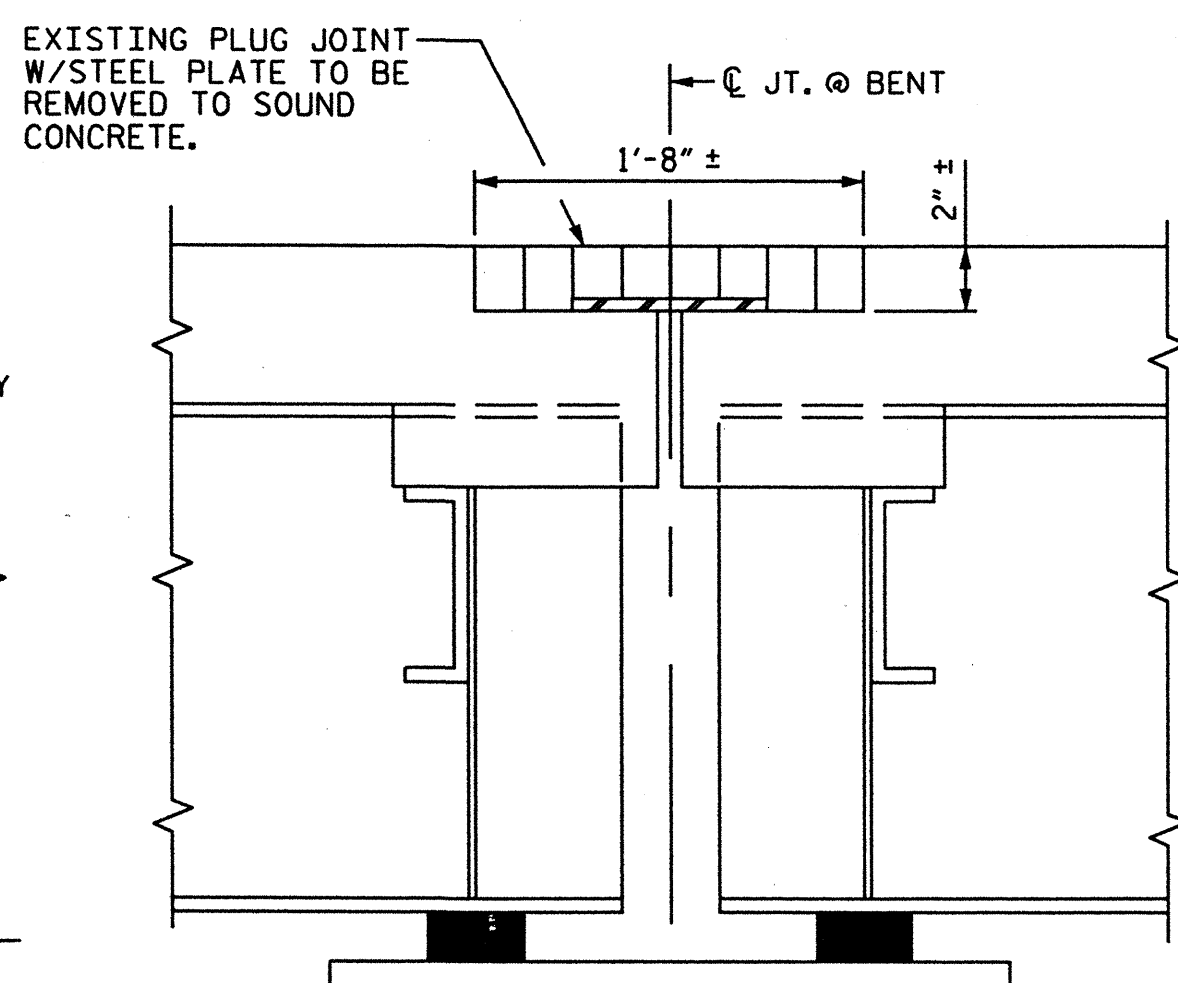
234'-9" TOTAL LENGTH FILL FACE TO FILL FACE ALONG ARC



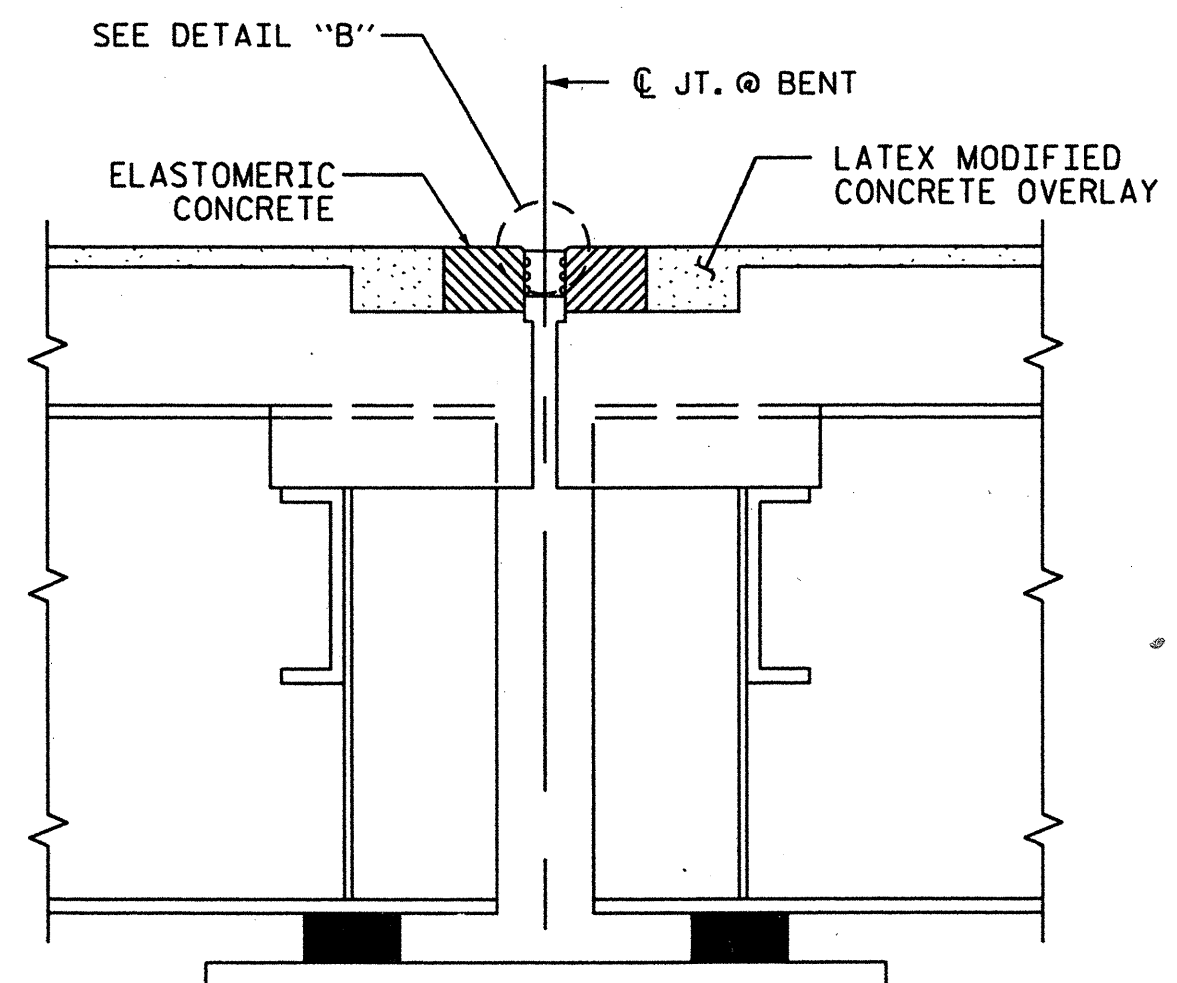
PLAN OF SPANS



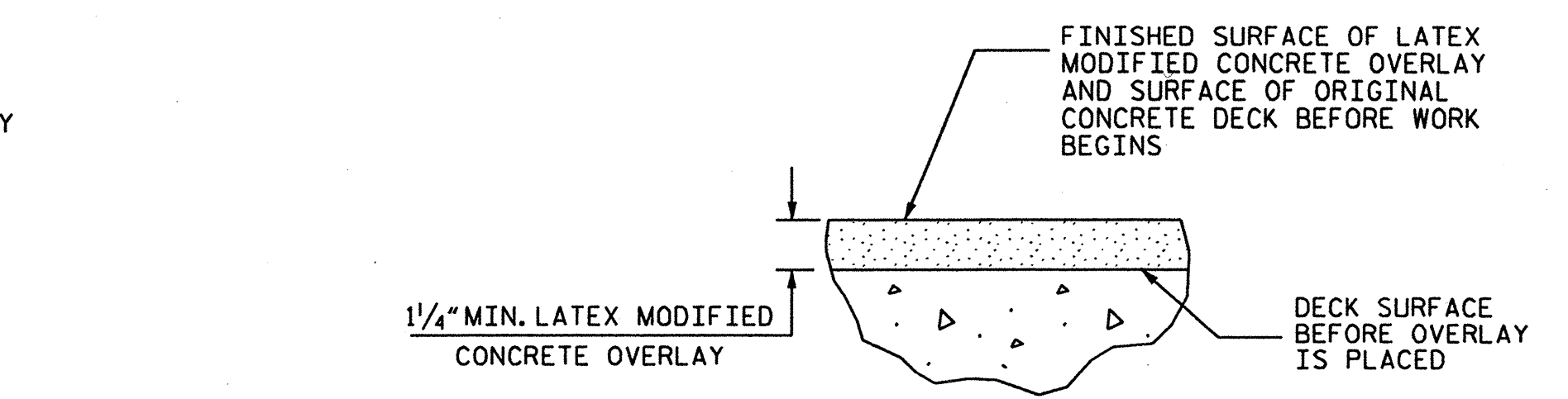
SECTION A-A



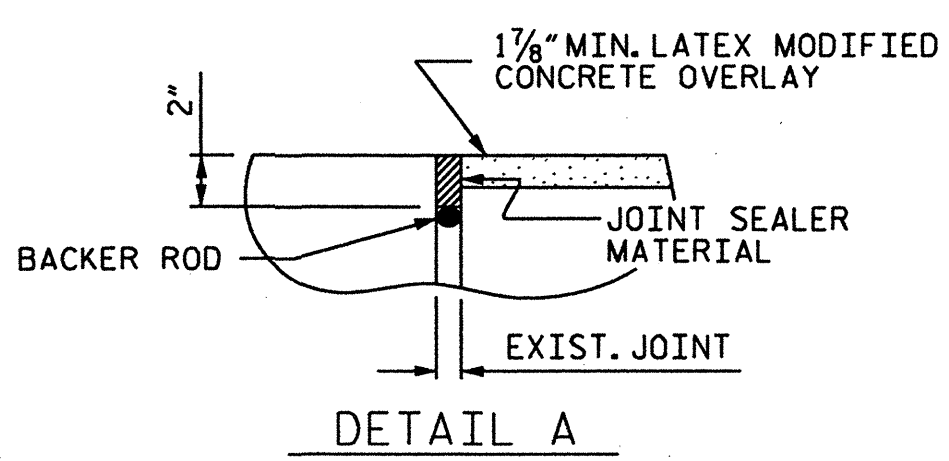
SECTION B-B (EXISTING JOINT)



SECTION B-B (PROPOSED JOINT REPLACEMENT DETAIL)



DETAIL FOR LATEX MODIFIED CONCRETE OVERLAY



DETAIL A

PROJECT NO. B-5179B  
BUNCOMBE COUNTY  
 STATION: 57+41.24 -L-

SHEET 1 OF 2

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	PLACING AND FINISHING LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH	EVAZOTE JOINT SEALS	GROOVING BRIDGE FLOORS
SO. YDS.	SO. YDS.	SO. YDS.	SO. YDS.	SO. FT.	SO. YDS.	CU. YDS.	CU. YDS.	SO. YDS.	LUMP SUM	SO. FT.
1460	1174	258	28	252	1460	4	101	1460	LUMP SUM	12400

\* QUANTITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.

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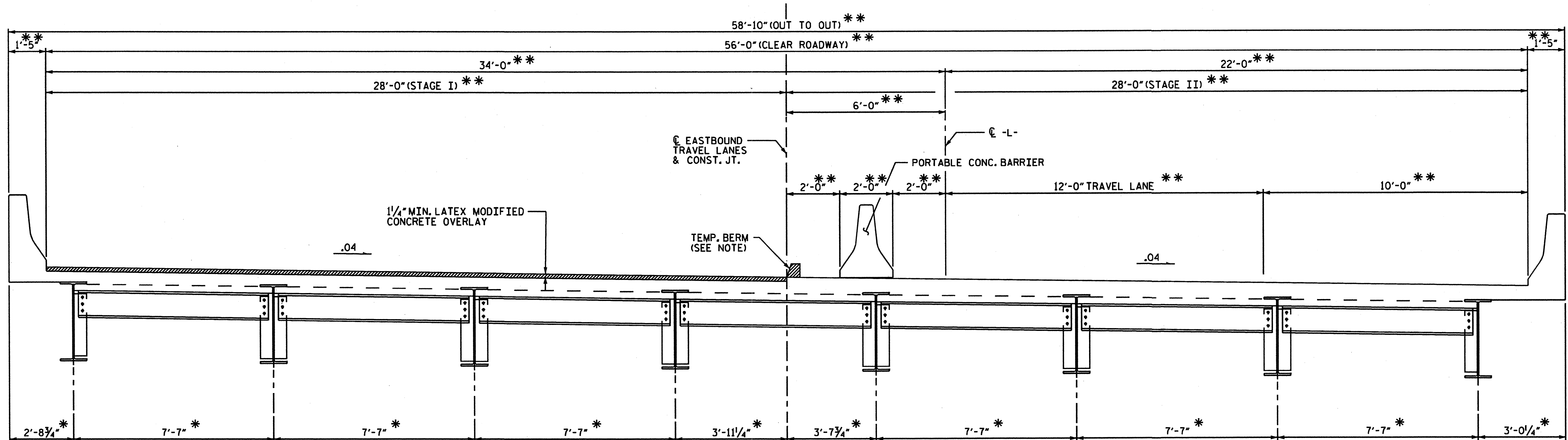
STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

PLAN OF SPANS  
 FOR DECK REPAIR

DECK REHAB. FOR BRIDGE NO. 439

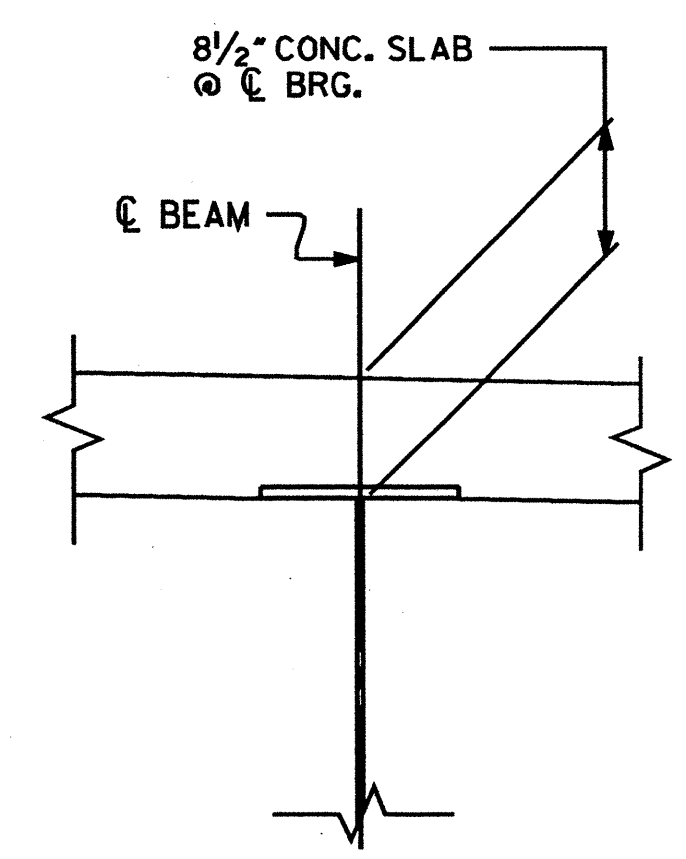
REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	5-23
1			3			TOTAL SHEETS 28
2			4			





**TYP. SECTION - STAGE I**  
(SHOWING DIAPHRAGMS AT EXPANSION JOINTS)  
\* RADIAL THRU WORKPOINT  
\*\* RADIAL DIMENSIONS

NOTE:  
WATER & CONCRETE SLURRY FROM HYDRO-DEMOLITION SHALL NOT BE ALLOWED TO DRAIN ACROSS TRAVEL LANES. CONTRACTOR SHALL PROVIDE A METHOD TO CONTROL THE WATER.



**EXIST. SLAB SECTION**

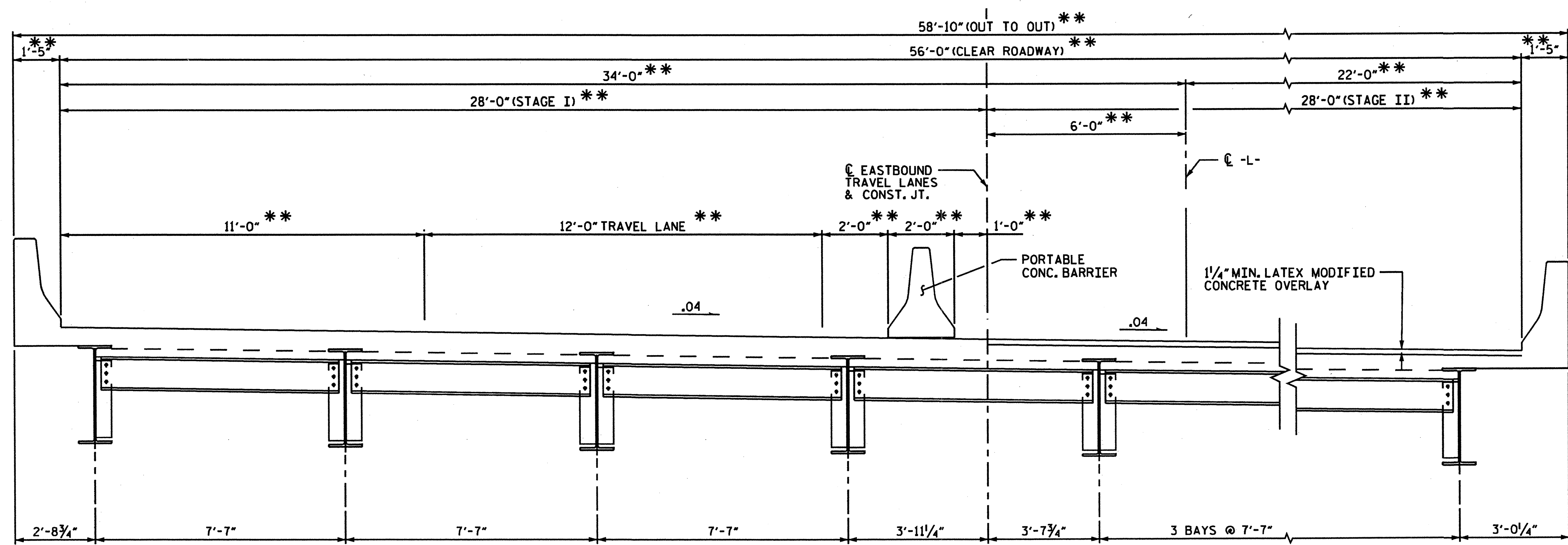
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RALEIGH

**TYPICAL SECTION**

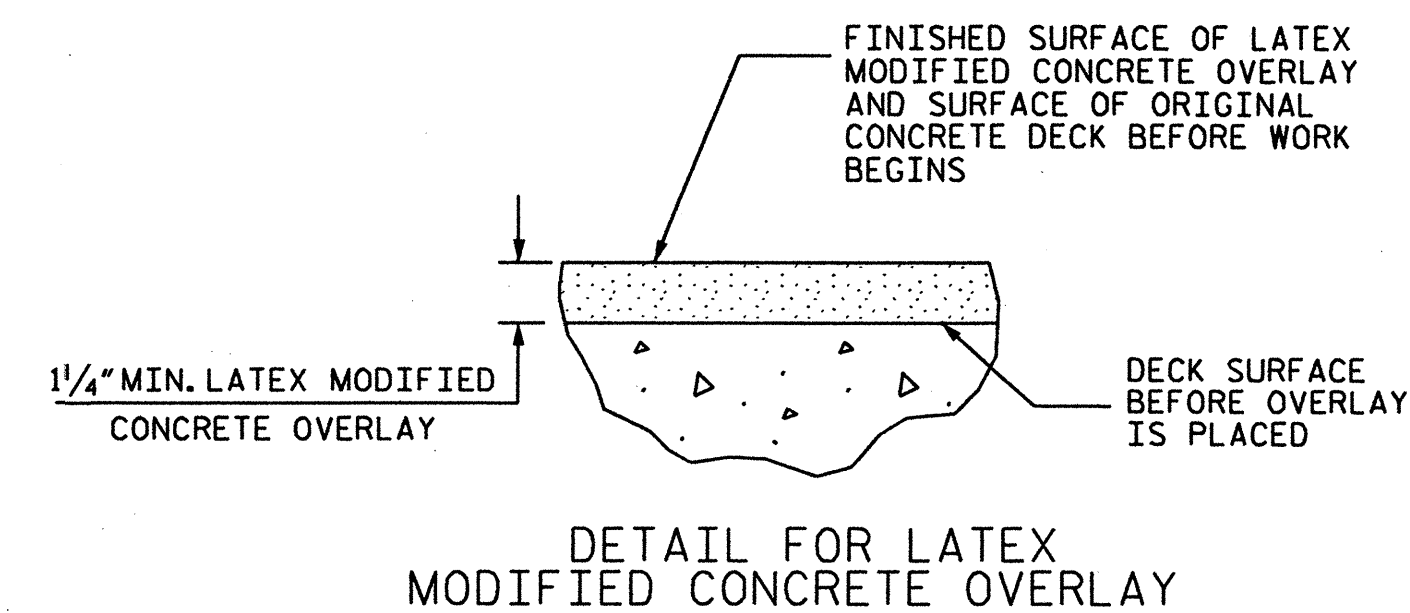
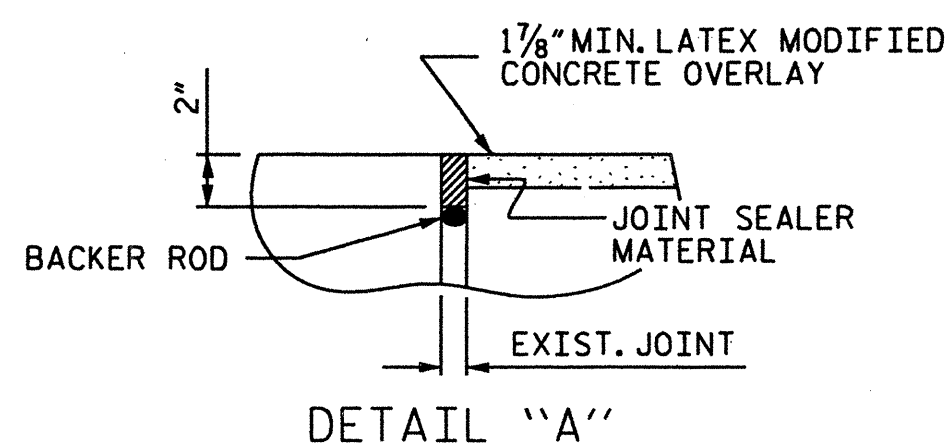
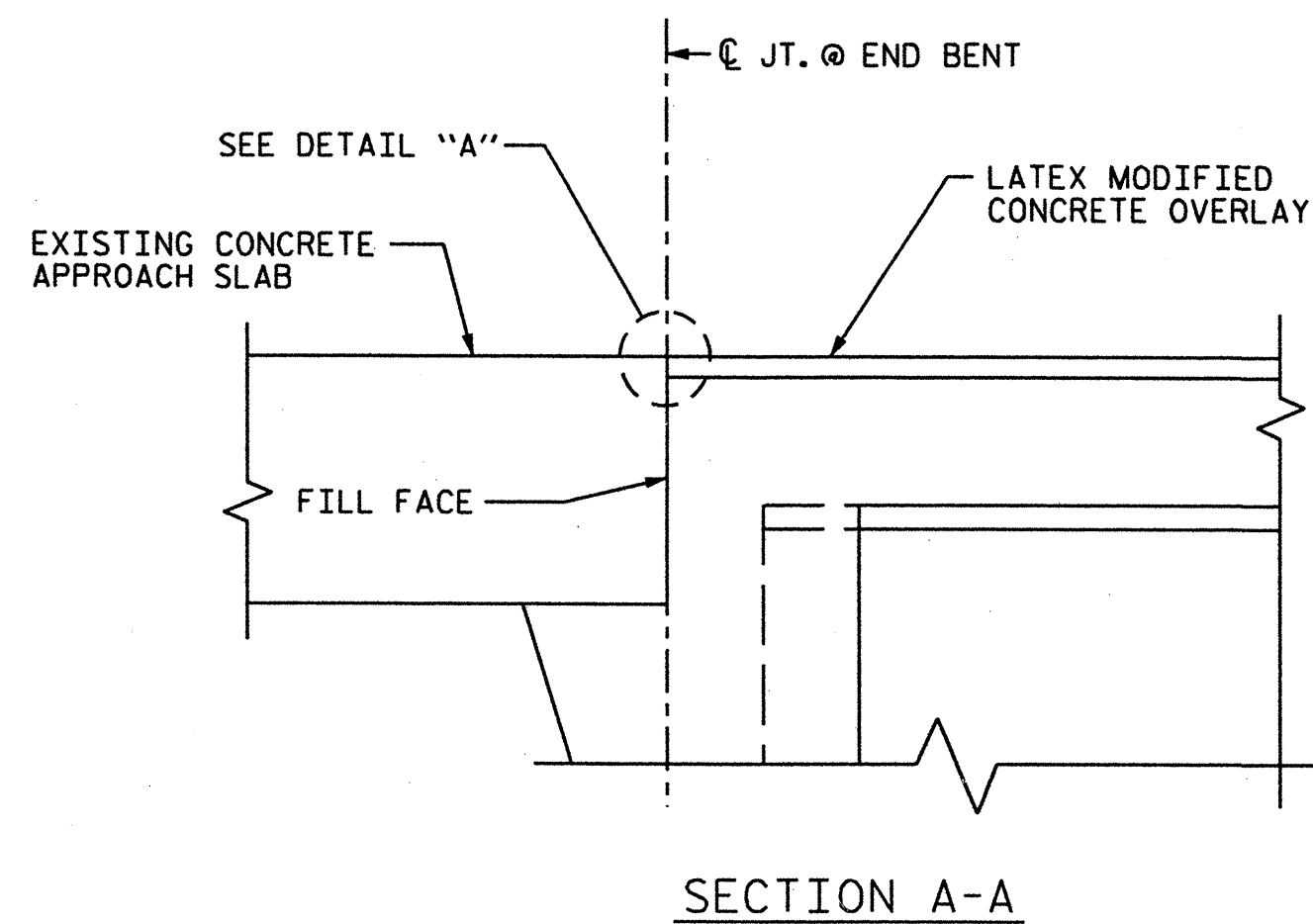
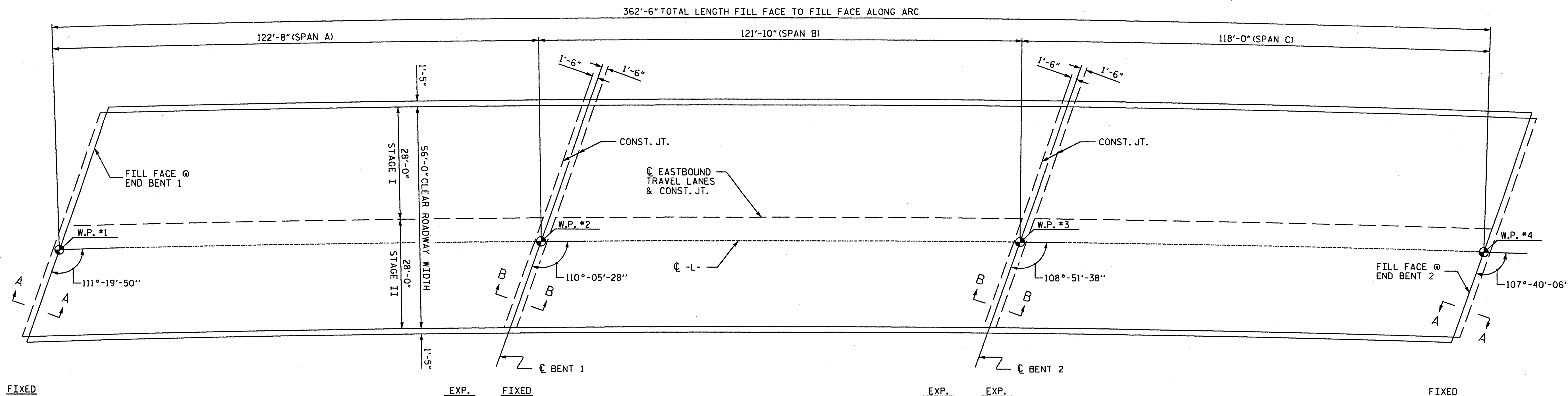
DECK REHAB. FOR BRIDGE NO. 454

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	S-25
1			3			TOTAL SHEETS 28
2			4			



**TYP. SECTION - STAGE II**  
(SHOWING DIAPHRAGMS AT EXPANSION JOINTS)  
\* RADIAL THRU WORKPOINT  
\*\* RADIAL DIMENSIONS

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 BUNCOMBE COUNTY  
 STATION: 111+34.20 -L-

SHEET 1 OF 3

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	PLACING AND FINISHING LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH	GROOVING BRIDGE FLOORS
SO. YDS.	SO. YDS.	SO. YDS.	SO. YDS.	SO. FT.	SO. YDS.	CU. YDS.	CU. YDS.	SO. YDS.	SO. FT.
2220	2035	178	7	63	2220	0	154	2220	18820

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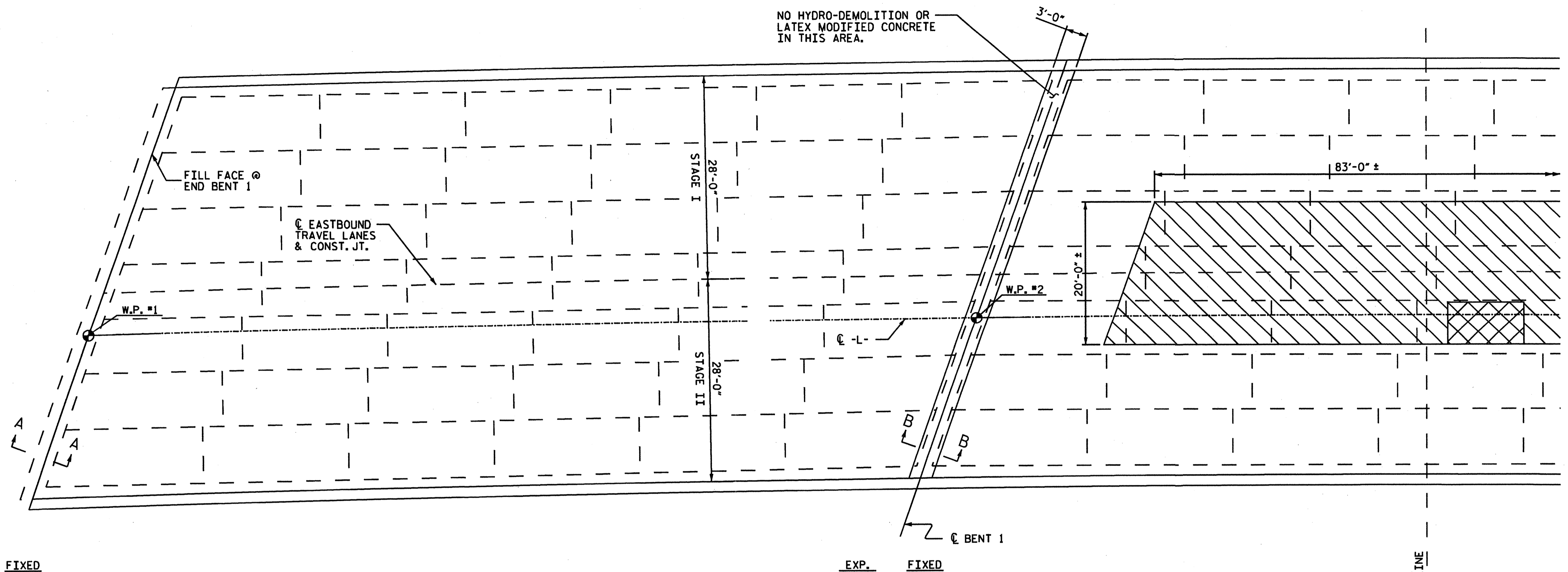
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 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

PLAN OF SPANS  
 FOR DECK REPAIR

DECK REHAB. FOR BRIDGE NO. 454

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	5-26
1			3			TOTAL SHEETS 28
2			4			

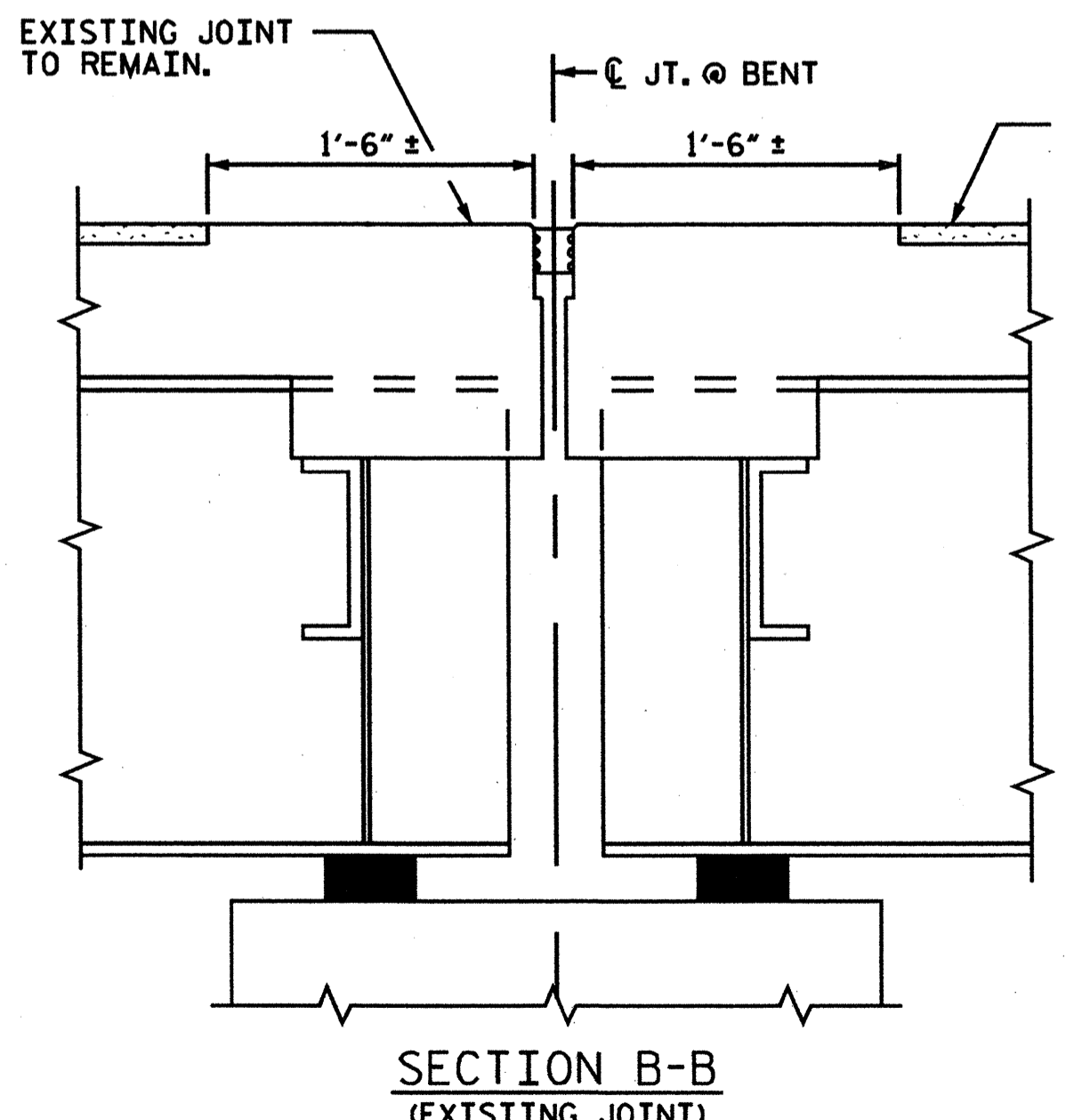
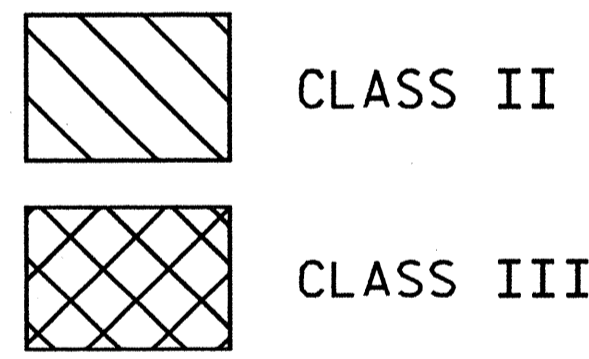




FIXED

EXP. FIXED

MATCHLINE



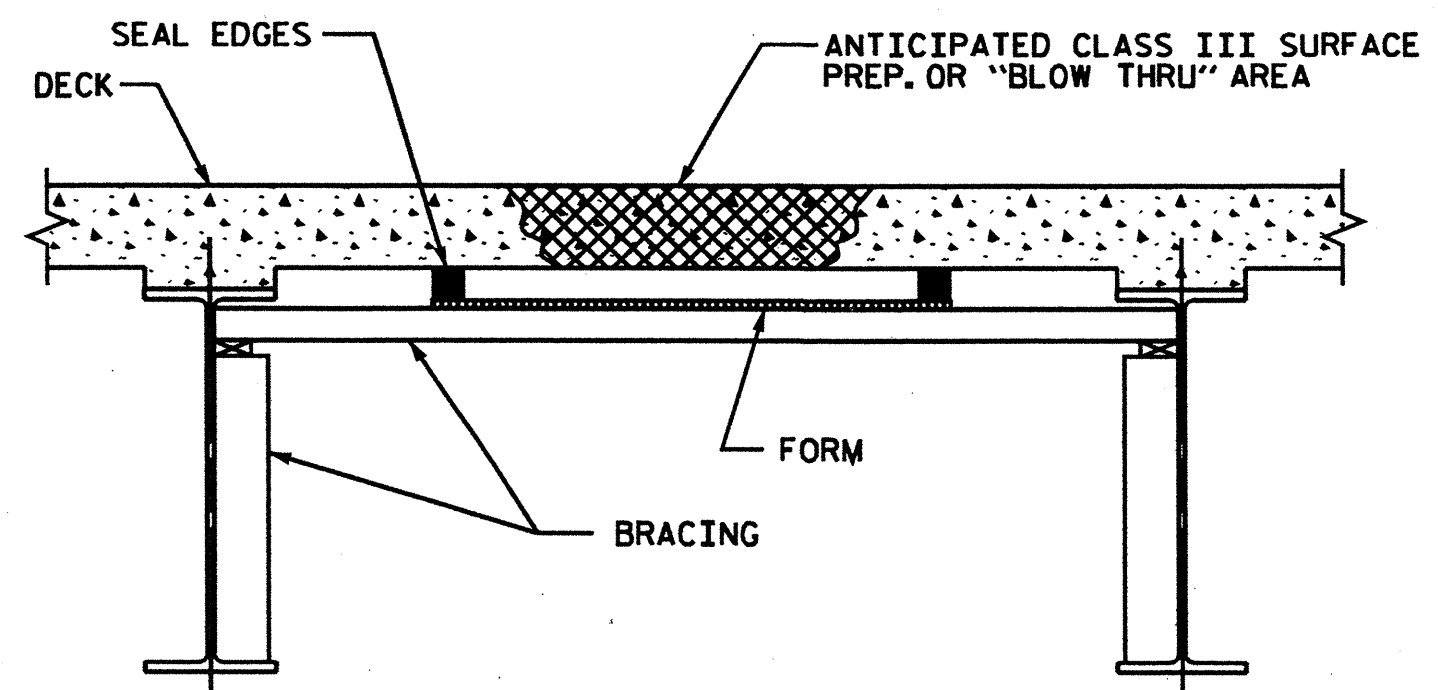
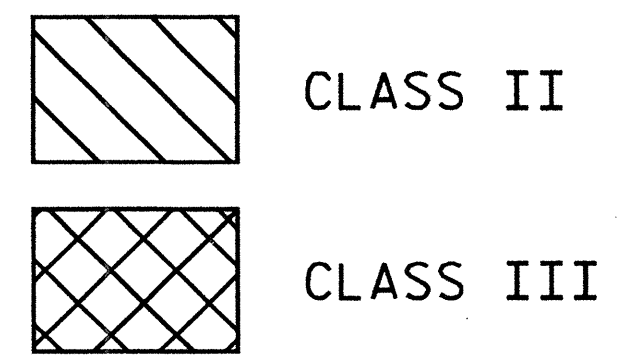
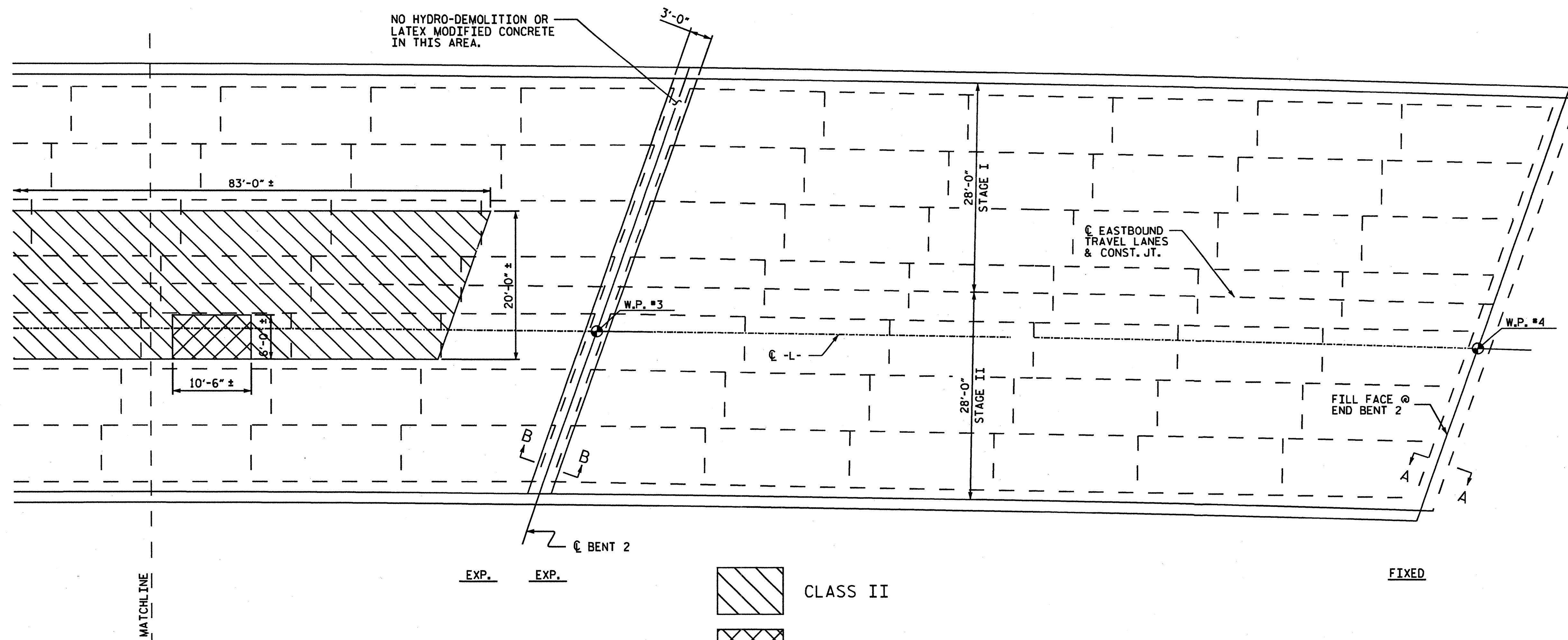
PROJECT NO. B-5179B  
BUNCOMBE COUNTY  
 STATION: 111+34.20 -L-  
 SHEET 2 OF 3

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

DECK REHAB. FOR BRIDGE NO. 454

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	S-27
1			3			TOTAL SHEETS
2			4			28

DRAWN BY : M.A. ALLEN DATE : 08-09  
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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.

**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.
- 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.

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SHEET 3 OF 3

STATE OF NORTH CAROLINA  
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 PLAN OF SPANS  
 FOR DECK REPAIR

DECK REHAB. FOR BRIDGE NO. 454

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	S-28
1			3			TOTAL SHEETS 28
2			4			

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