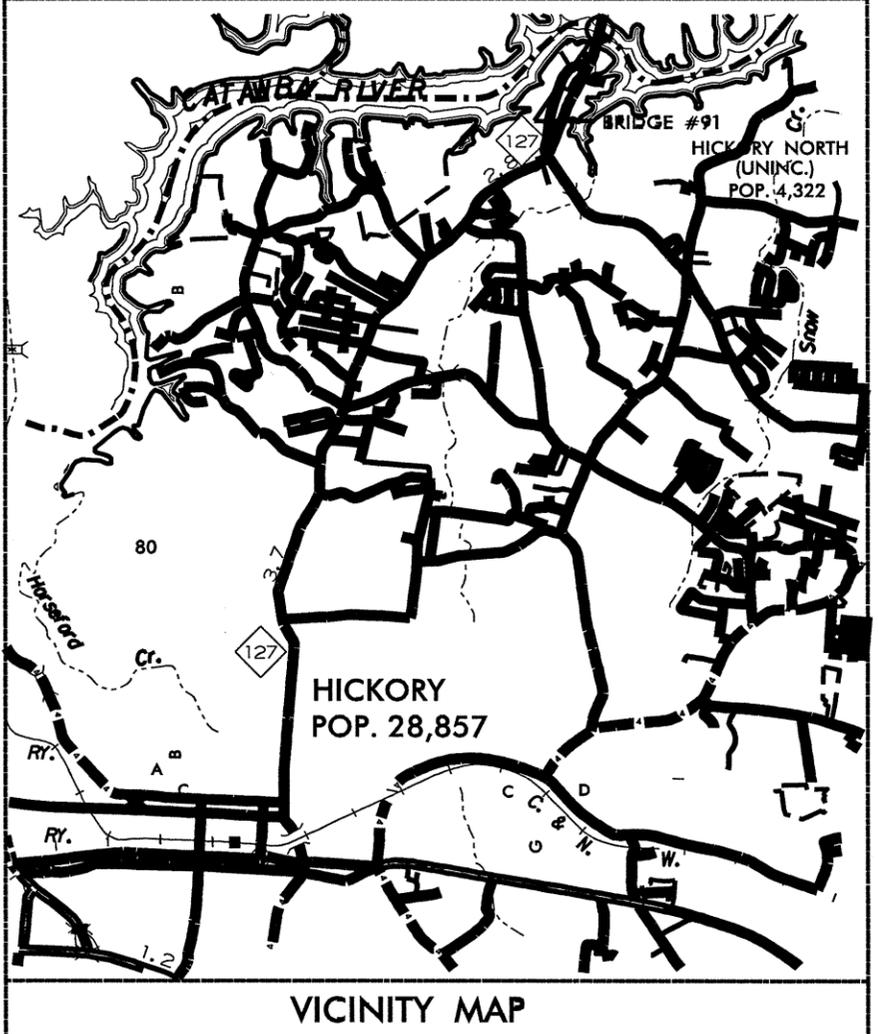


CONTRACT No. C202536 TIP No. BK-5101C



VICINITY MAP

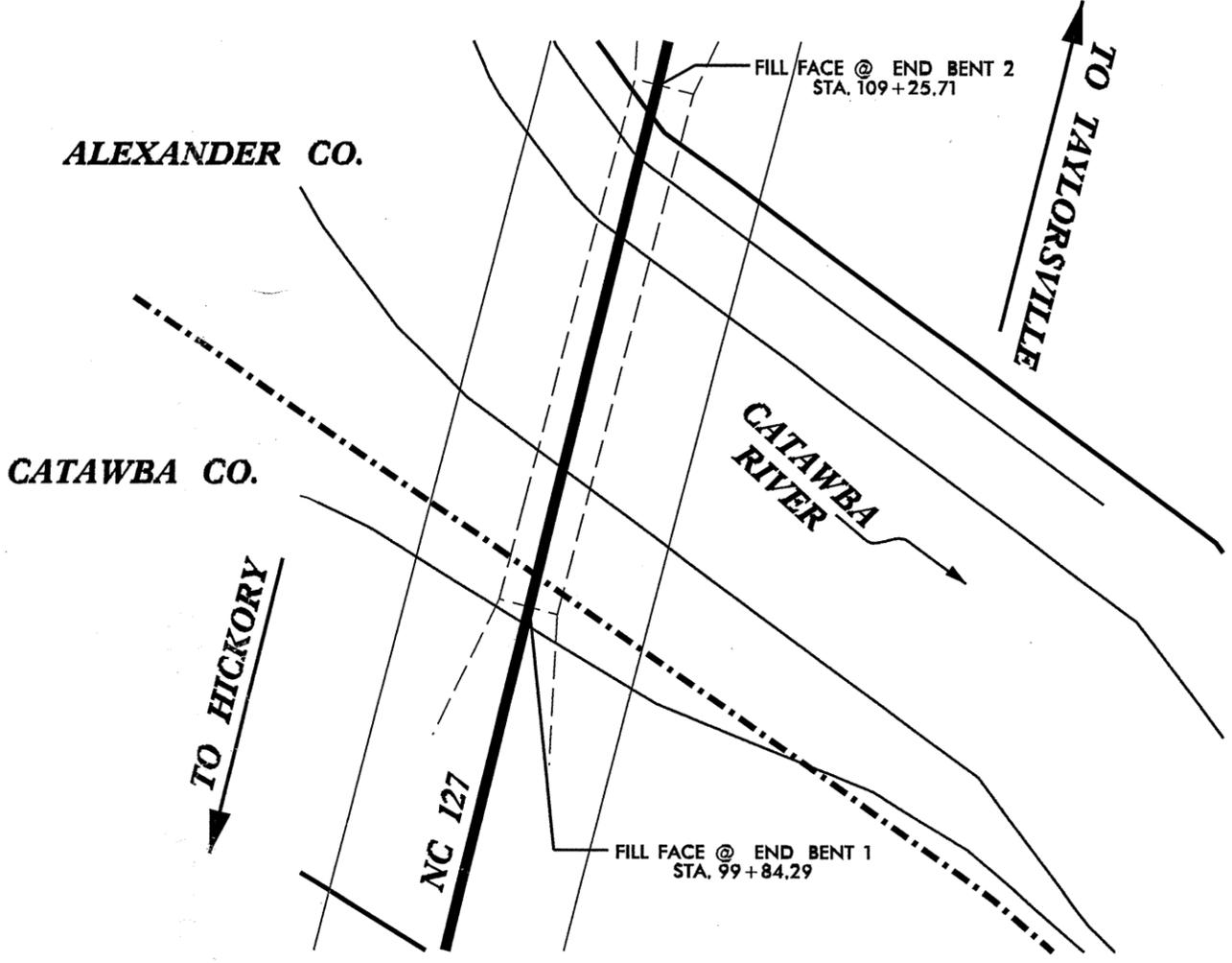
INDEX OF SHEETS

SHEET NO.	
1	TITLE SHEET
1A	SUMMARY OF QUANTITIES
S1 THRU S7	STRUCTURE PLANS
TCP-1 THRU TCP-5	TRAFFIC CONTROL PLANS

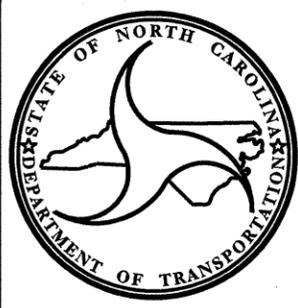
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CATAWBA COUNTY

LOCATION: BRIDGE #91 ON NC 127 ACROSS CATAWBA RIVER.
TYPE OF WORK: BRIDGE DECK PRESERVATION



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BK-5101C	1	14
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
42579.3.3	BRSTP-0127(9)	CONST	
42579.1.1	BRSTP-0000S(524)	PE	



DESIGN DATA

ADT 2007 =	20000
ADT 2025 =	40730

PROJECT LENGTH

LENGTH STRUCTURE PROJECT = 0.198 mile

Prepared In the Office of:
DIVISION OF BRIDGE MANAGEMENT

2006 STANDARD SPECIFICATIONS

LETTING DATE:
03/16/2010

DAN HOLDERMAN, PE
PROJECT ENGINEER



5/28/99

PROJECT REFERENCE NO.	SHEET NO.
BK-5101C	1-A

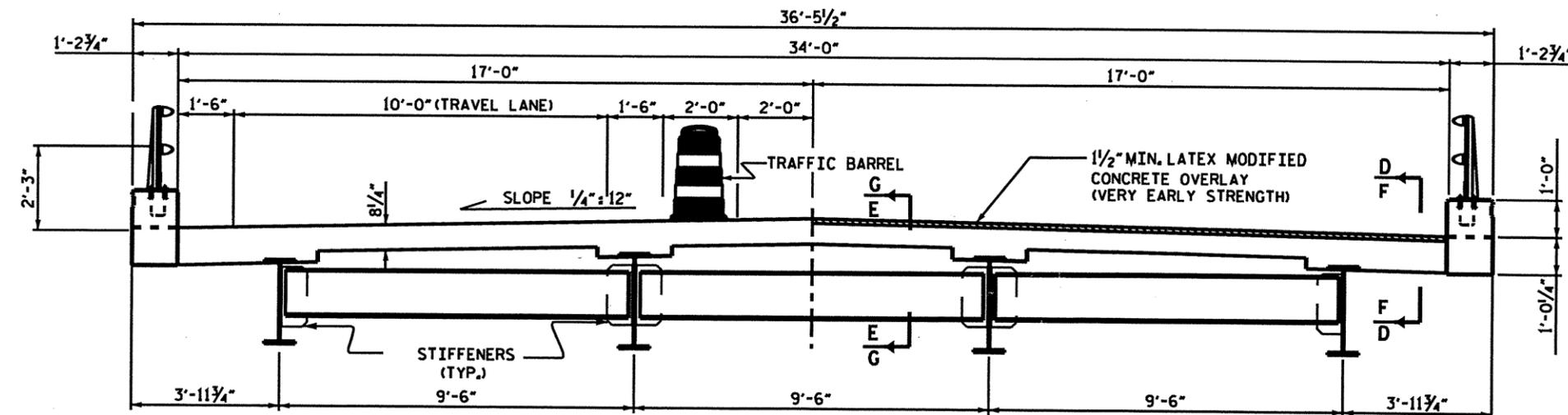
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF QUANTITIES

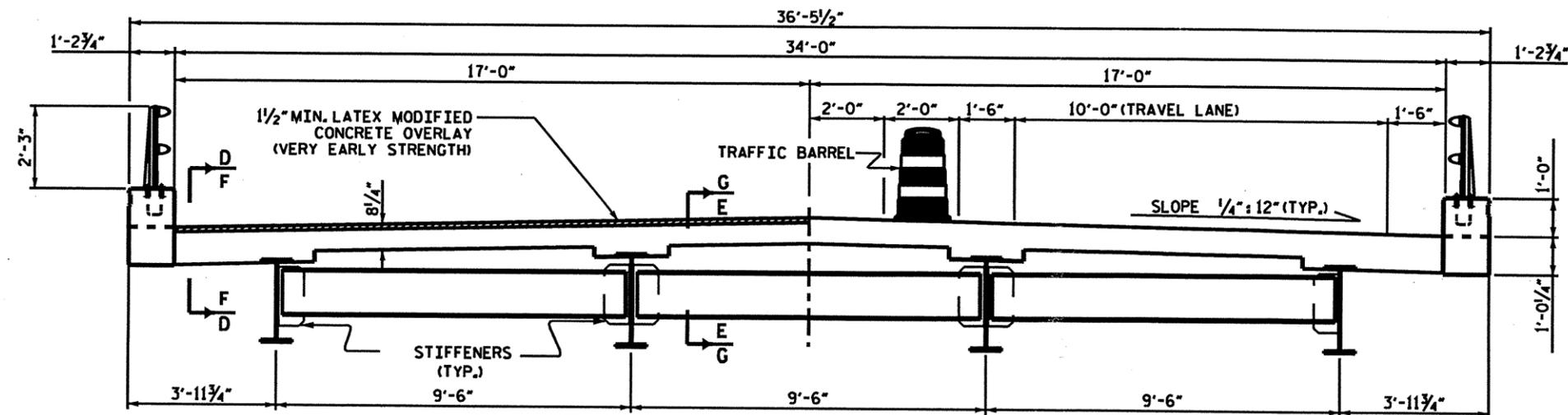
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C202536

ItemNumber	Sec #	Quantity	Unit	Description
0000100000-N	800	Lump Sum		MOBILIZATION
1525000000-E	610	45	TON	ASPHALT CONC SURFACE COURSE, TYPE SF9.5A
1560000000-E	620	3	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
4400000000-E	1110	629	SF	WORK ZONE SIGNS (STATIONARY)
4405000000-E	1110	128	SF	WORK ZONE SIGNS (PORTABLE)
4410000000-E	1110	94	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
4420000000-N	1120	2	EA	CHANGEABLE MESSAGE SIGN
4435000000-N	1135	46	EA	CONES
4445000000-E	1145	144	LF	BARRICADES (TYPE III)
4450000000-N	1150	1,980	HR	FLAGGER
4510000000-N	SP	240	HR	LAW ENFORCEMENT
4847000000-E	1205	4,400	LF	POLYUREA PAVEMENT MARKING LINES (4", *****) (HIGHLY REFLECTIVE ELEMENTS)
6084000000-E	1660	0.2	ACR	SEEDING & MULCHING
8161000000-E	420	32,008	SF	GROOVING BRIDGE FLOORS
8692000000-N	SP	Lump Sum		EVAZOTE JOINT SEALS
8881000000-E	SP	246	CY	GENERIC STRUCTURE ITEM LATEX MOD CONC OVERLAY - VERY EARLY STRENGTH
8893000000-E	SP	3,557	SY	GENERIC STRUCTURE ITEM HYDRO-DEMOLITION OF BRIDGE DECK
8893000000-E	SP	3,557	SY	GENERIC STRUCTURE ITEM PLACING & FINISHING LATEX MOD CONC - VERY EARLY STRENGTH
8893000000-E	SP	3,961	SY	GENERIC STRUCTURE ITEM SCARIFYING BRIDGE DECK

SYSTEMS



TYPICAL SECTION -STAGE I-



TYPICAL SECTION -STAGE II-

NOTES

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

EXPANSION JOINTS SHALL BE COVERED WITH POLYETHYLENE SHEETING OR OTHER APPROVED DAMS PRIOR TO BEGINNING CLASS I SURFACE PREPARATION. SEE SPECIAL PROVISIONS.

FOR HYDRO-DEMOLITION, 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 APPROXIMATE. THE CONTRACTOR SHALL PROVIDE A METHOD OF HANDLING UNEXPECTED BLOW THROUGH OF DECK. SEE DETAIL.

THE CONSTRUCTION JOINTS SHALL BE SAWS NO MORE THAN 3 HOURS AFTER THE LATEX MODIFIED OVERLAY IS CAST. THE JOINT SHALL BE CLEANED OF ALL DEBRIS BEFORE THE SEALANT IS APPLIED. THE JOINT SEALER MATERIAL SHALL CONFORM WITH REQUIREMENTS OF TYPE SL LOW MODULUS SILICON SEALER.

FOR EVAZOTE JOINT SEALS, SEE SPECIAL PROVISIONS.

TOTAL BILL OF MATERIAL

** SCARIFYING BRIDGE DECK	* CLASS I SURFACE PREPARATION	* CLASS II SURFACE PREPARATION	* CLASS III SURFACE PREPARATION	* UNDER DECK CONTAINMENT	HYDRO-DEMOLITION	LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH	PLACING AND FINISHING LATEX MODIFIED CONCRETE-VERY EARLY STRENGTH	EVAZOTE JOINT SEALS	GROOVING BRIDGE FLOORS	PAVEMENT MARKING (POLYUREA)	ASPHALT CONCRETE SURFACE COURSE TYPE SF 9.5A
SO.YDS.	SO.YDS.	SO.YDS.	SO.YDS.	SO. FT.	SO.YDS.	C.Y.	SO.YDS.	LUMP SUM	SO. FT.	LF.	TONS
3961	405	562	20	176	3557	246	3557	LUMP SUM	32008	4400	45

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

PROJECT NO. BK-5101 C
 COUNTY: CATAWBA
 STATION: N/A
 BRIDGE NO. 91

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 TYPICAL VIEW OF BRIDGE
 #91 ON NC 127 OVER
 CATAWBA RIVER

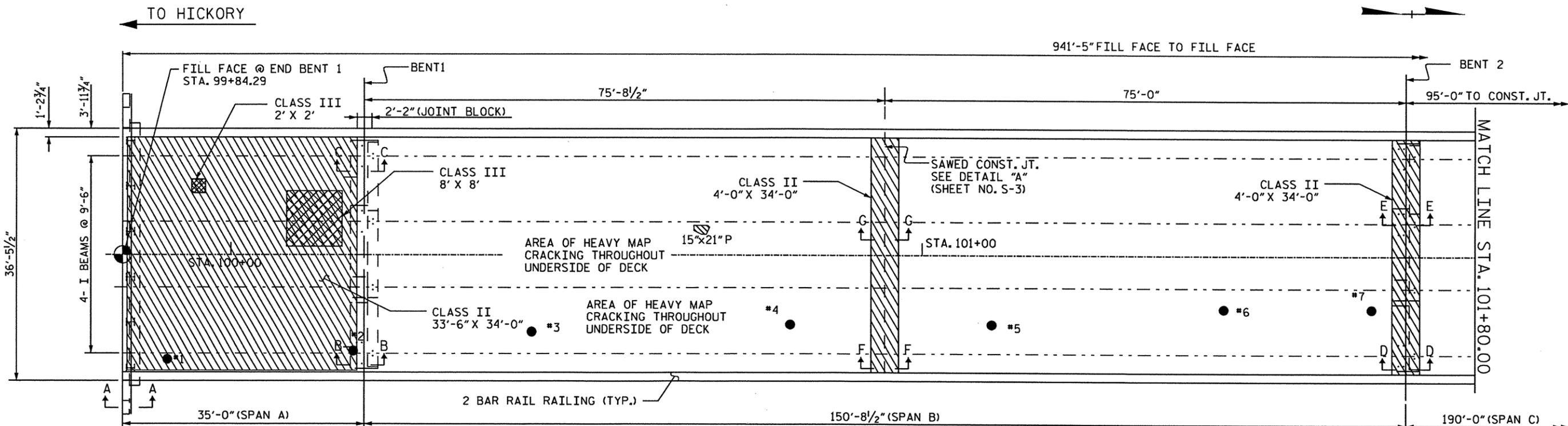
REVISIONS						SHRINK
NO.	BY	DATE	NO.	BY	DATE	TOTAL NUMBER
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2			4			

DRAWN BY : S. T. SANDOR DATE : OCT./2009
 CHECKED BY : A. ASTER DATE : OCT./2009

*****SYTIME*****

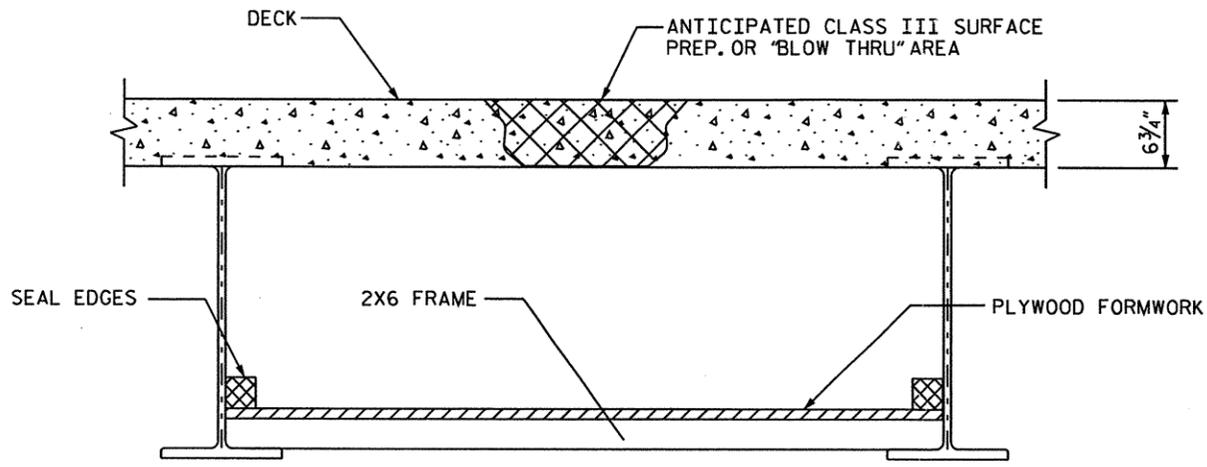
*****USERNAME*****

*****DUN*****



PLAN OF SPANS

- APPROX. AREA: CLASS II REPAIR
- APPROX. AREA: CLASS III REPAIR
- APPROX. TEST BORING LOCATION

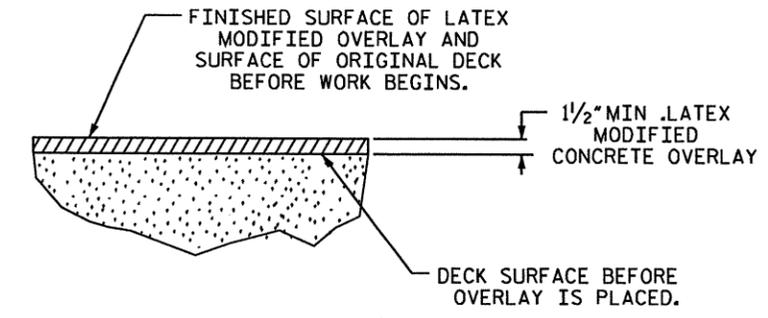


TYP. "BLOW THRU" CONTAINMENT AND FORMWORK

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.

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



DETAIL FOR LATEX MODIFIED CONCRETE OVERLAY

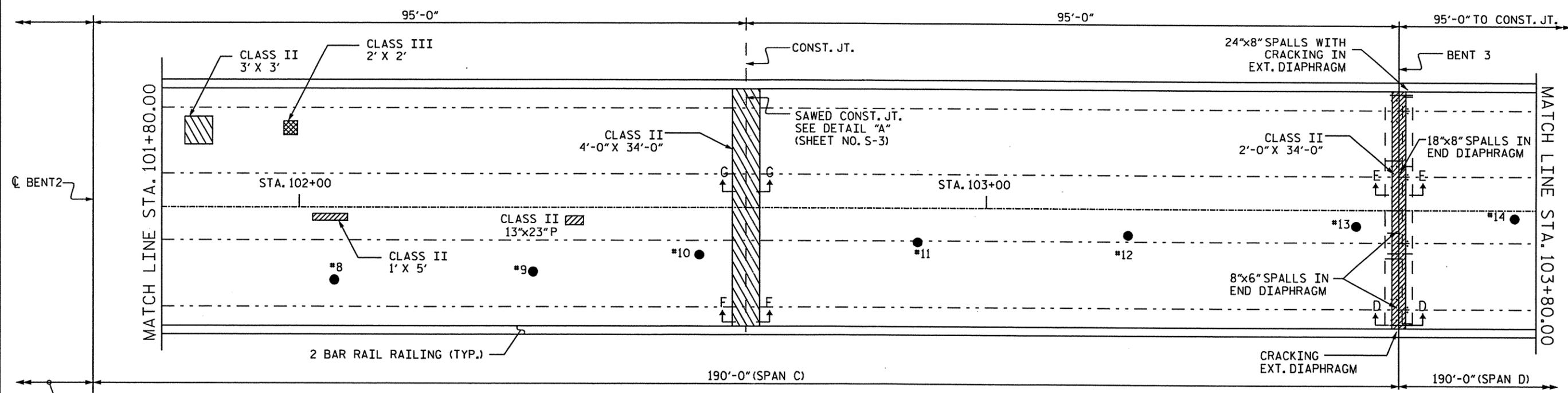
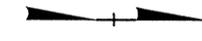
PROJECT NO. BK-5101 C
 COUNTY: CATAWBA
 STATION: N/A
 DECK REHAB BRIDGE NO. 91

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 PLAN VIEW OF BRIDGE
 #91 ON NC 127 OVER
 CATAWBA RIVER
 34'-0" CLEAR ROADWAY-(90°-00' SKEW)

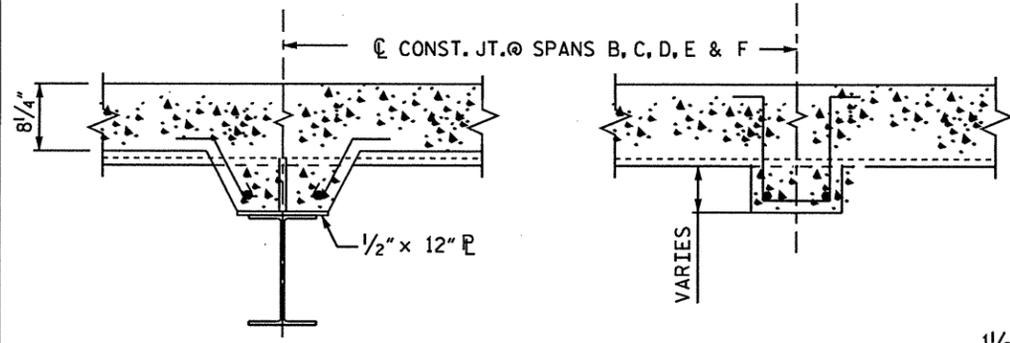
REVISIONS				SHEET NO.	
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

TOTAL SHEETS: 14

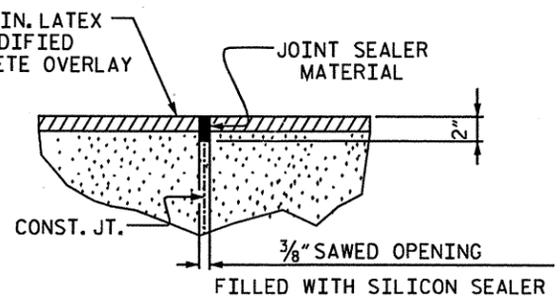
DRAWN BY : S. T. SANDOR DATE : MAY/2009
 CHECKED BY : A. ABRAHA DATE : SEPT./2009



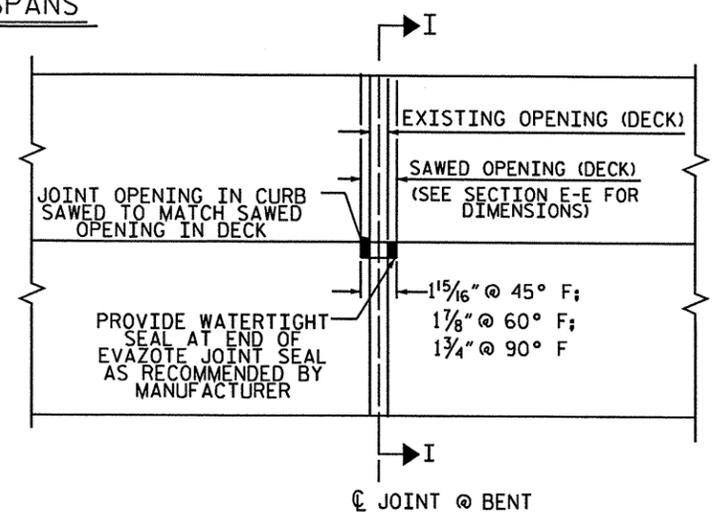
- APPROX. AREA: CLASS II REPAIR
- APPROX. AREA: CLASS III REPAIR
- APPROX. TEST BORING LOCATION



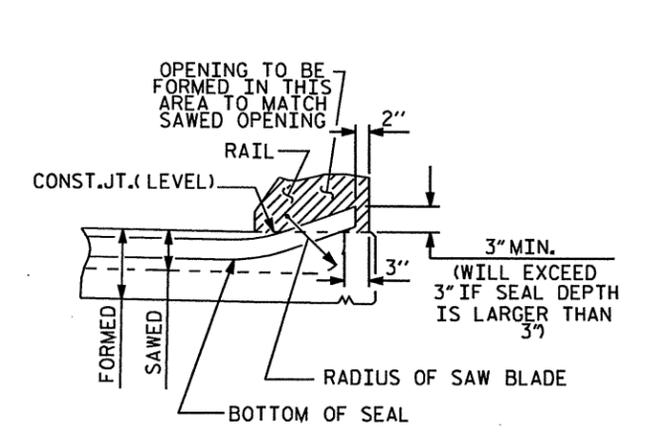
SECTION G-G (EXISTING)
SECTION F-F (EXISTING)
EXISTING SECTION



REPAIR
(LOCATION OF JOINT TO MATCH EXISTING JOINT LOCATION)
DETAIL "A"
(CONSTRUCTION JOINTS)



PLAN
EVAZOTE JOINT SEAL DETAILS

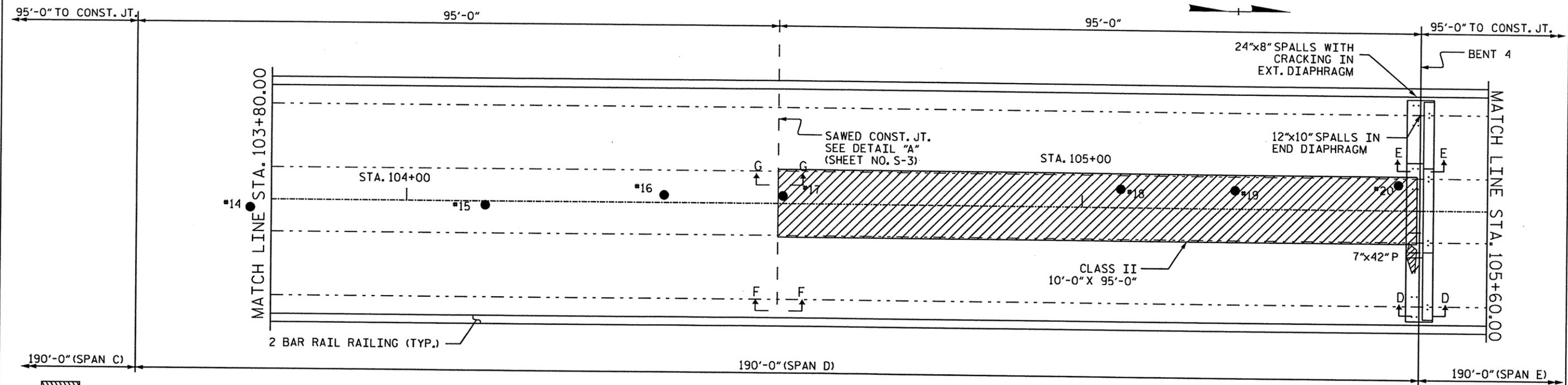


SECTION I-I

PROJECT NO. BK-5101 C
COUNTY: CATAWBA
STATION: N/A
DECK REHAB. BRIDGE NO. 91

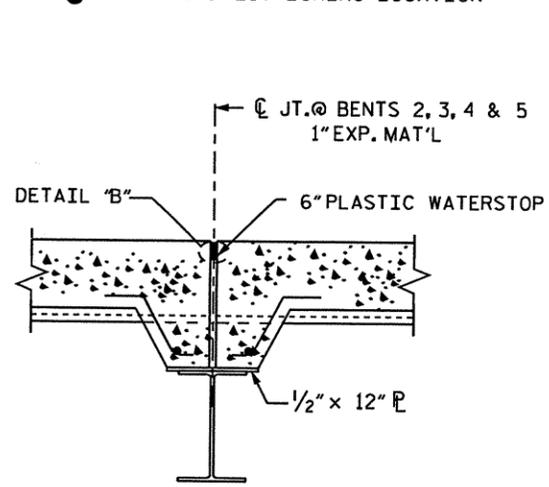
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
PLAN VIEW OF BRIDGE #91 ON NC 127 OVER CATAWBA RIVER 34'-0" CLEAR ROADWAY-(90°-00' SKEW)					
REVISIONS			SHEET NO.		
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		
					S-3
					TOTAL SHEETS 14

DRAWN BY : S. T. SANDOR DATE : MAY/2009
CHECKED BY : A. ABRAHA DATE : SEPT./2009

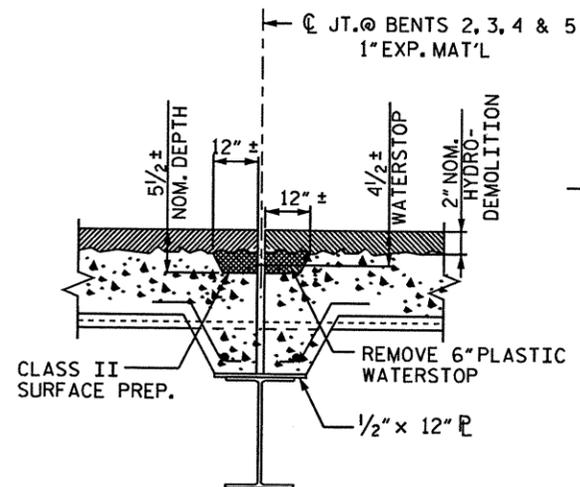


- APPROX. AREA: CLASS II REPAIR
- APPROX. AREA: CLASS III REPAIR
- APPROX. TEST BORING LOCATION

PLAN OF SPANS

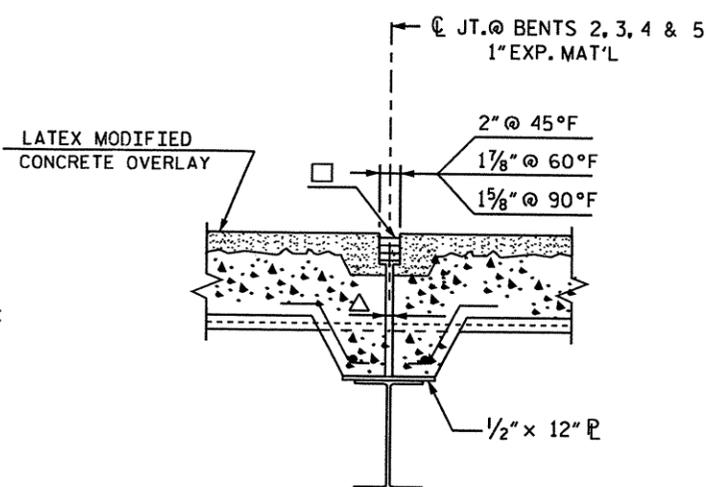


SECTION E-E
(EXISTING)



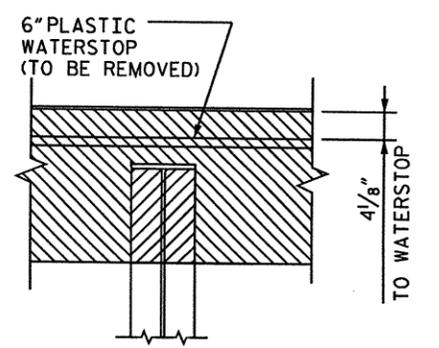
SECTION E-E
(MINIMUM EXISTING JOINT DEMOLITION)

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



SECTION E-E
(JOINT SEAL DESIGN)

- USE 2.8125" X 2" UNCOMPRESSED SEAL MATERIAL
- 1" FORMED OPENING



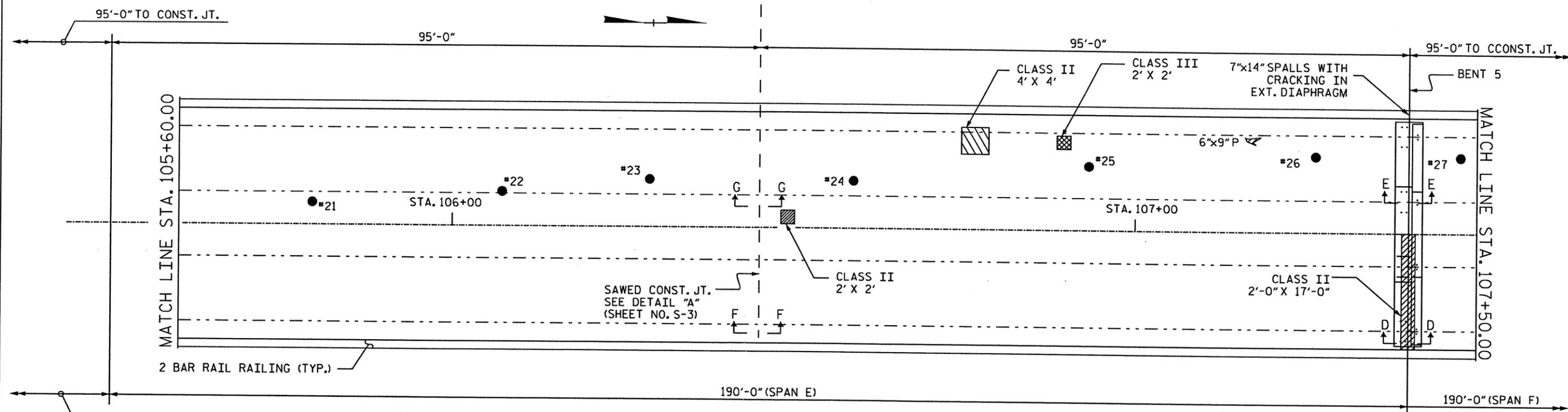
DETAIL "B"

PROJECT NO. BK-5101 C
 COUNTY: CATAWBA
 STATION: N/A
 DECK REHAB BRIDGE NO. 91

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 PLAN VIEW OF BRIDGE
 #91 ON NC 127 OVER
 CATAWBA RIVER
 34'-0" CLEAR ROADWAY-(90°-00' SKEW)

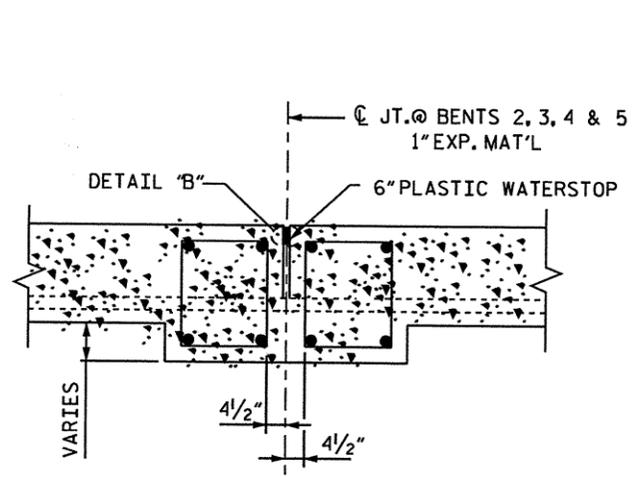
REVISIONS						REVISION NO.
NO.	BY	DATE	NO.	BY	DATE	TOTAL SHEETS
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2			4			

DRAWN BY : S. T. SANDOR DATE : MAY/2009
 CHECKED BY : A. ABRAHA DATE : SEPT./2009

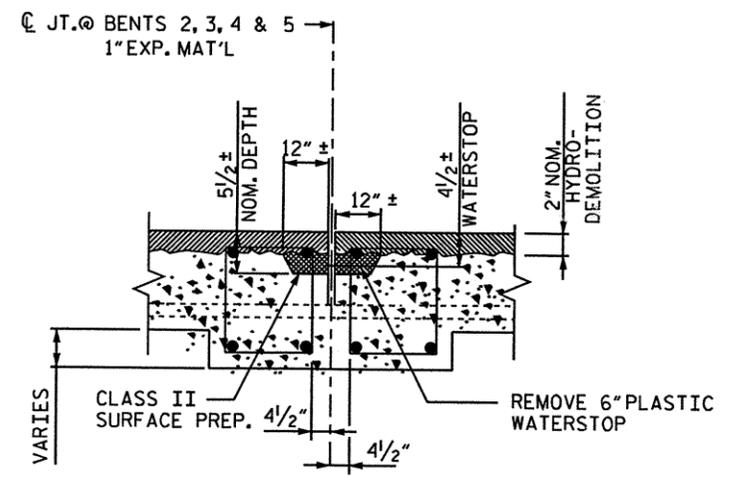


PLAN OF SPANS

- APPROX. AREA: CLASS II REPAIR
- APPROX. AREA: CLASS III REPAIR
- APPROX. TEST BORING LOCATION

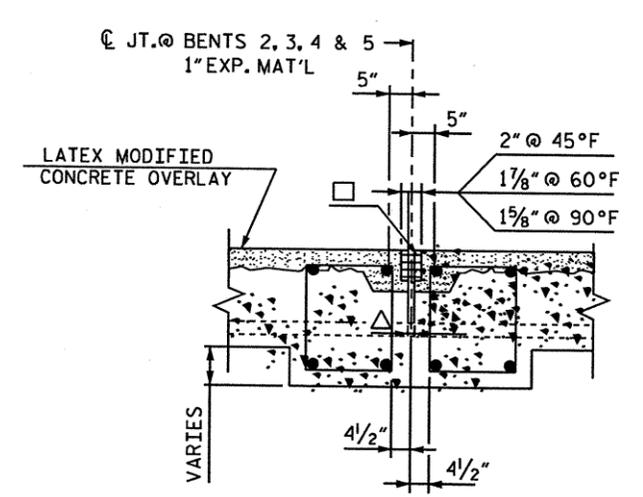


SECTION D-D
(EXISTING)



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)

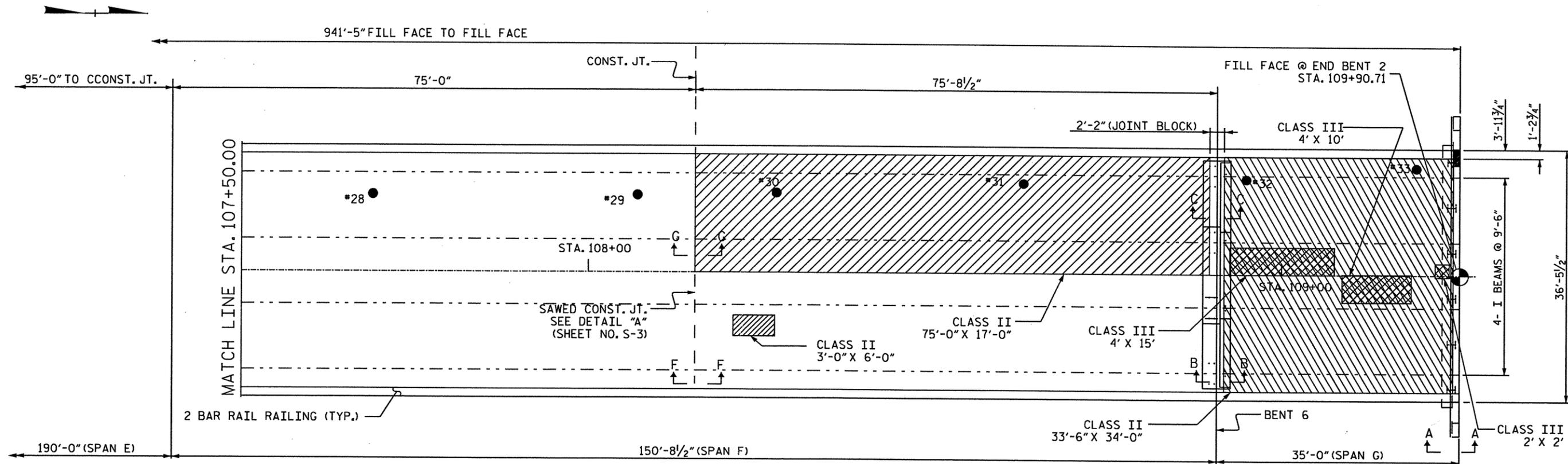
- USE 2.8125" X 2" UNCOMPRESSED SEAL MATERIAL
- 1" FORMED OPENING

PROJECT NO. BK-5101 C
 COUNTY: CATAWBA
 STATION: N/A
 DECK REHAB BRIDGE NO. 91

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 PLAN VIEW OF BRIDGE
 #91 ON NC 127 OVER
 CATAWBA RIVER
 34'-0" CLEAR ROADWAY-(90°-00' SKEW)

REVISIONS						REVISION NO.
NO.	BY	DATE	NO.	BY	DATE	TOTAL SHEETS
1			3			S-5 14
2			4			

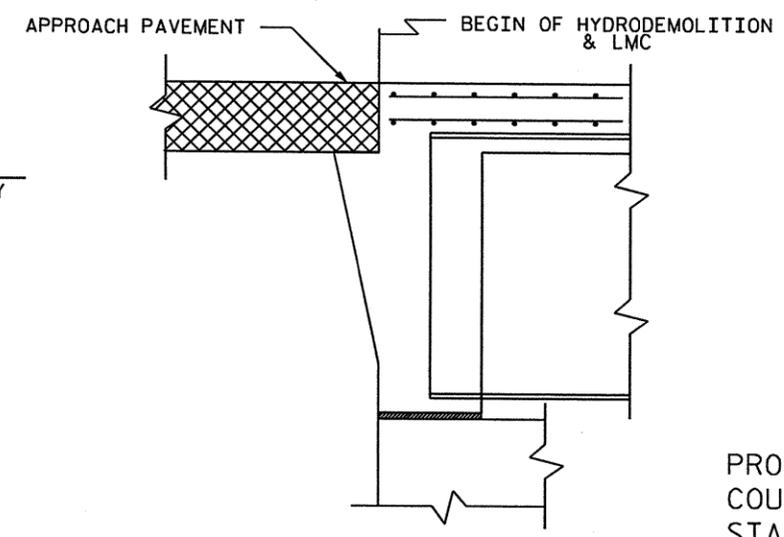
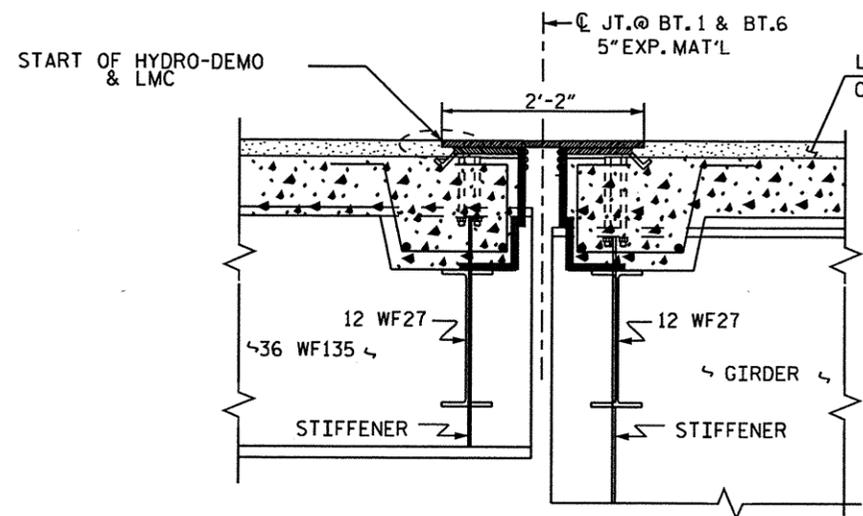
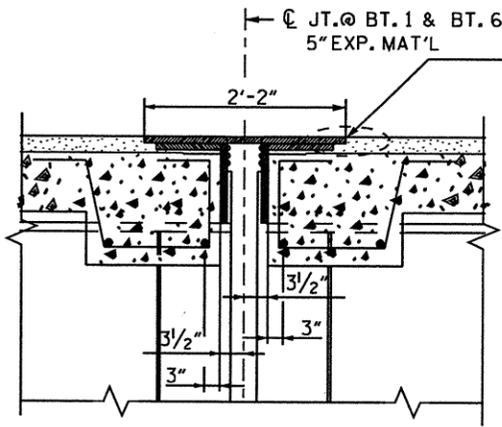
DRAWN BY : S. T. SANDOR DATE : MAY/2009
 CHECKED BY : A. ABRAHA DATE : SEPT./2009



- APPROX. AREA: CLASS II REPAIR
- APPROX. AREA: CLASS III REPAIR
- APPROX. TEST BORING LOCATION

PLAN OF SPANS

TO BETHLEHEM

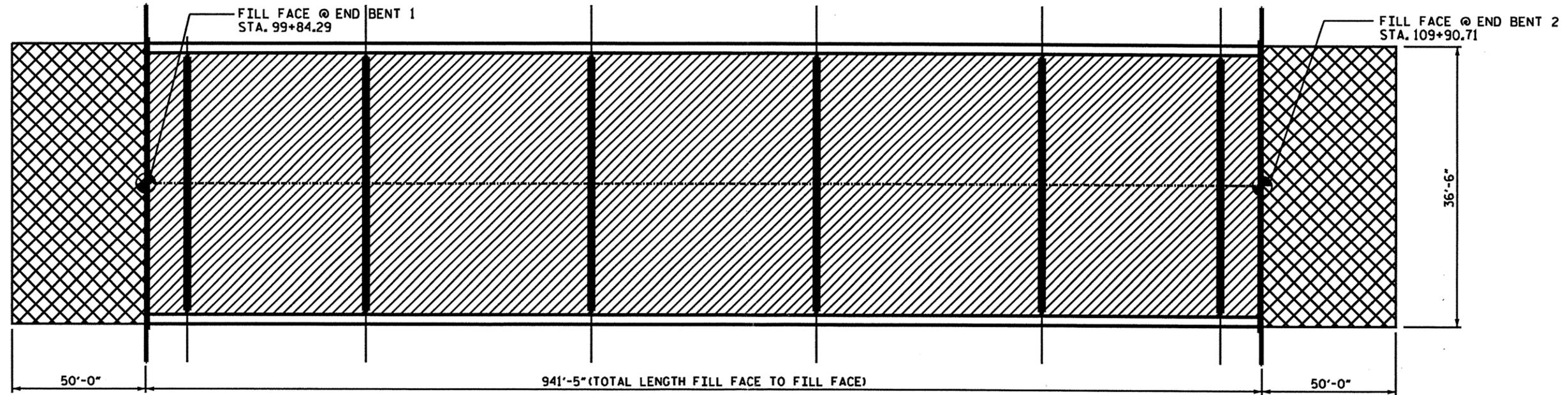


PROJECT NO. BK-5101 C
 COUNTY: CATAWBA
 STATION: N/A
 DECK REHAB. BRIDGE NO. 91

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 PLAN VIEW OF BRIDGE
 #91 ON NC 127 OVER
 CATAWBA RIVER
 34'-0" CLEAR ROADWAY-(90°-00' SKEW)

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	TOTAL SHEETS
1			3			14
2			4			

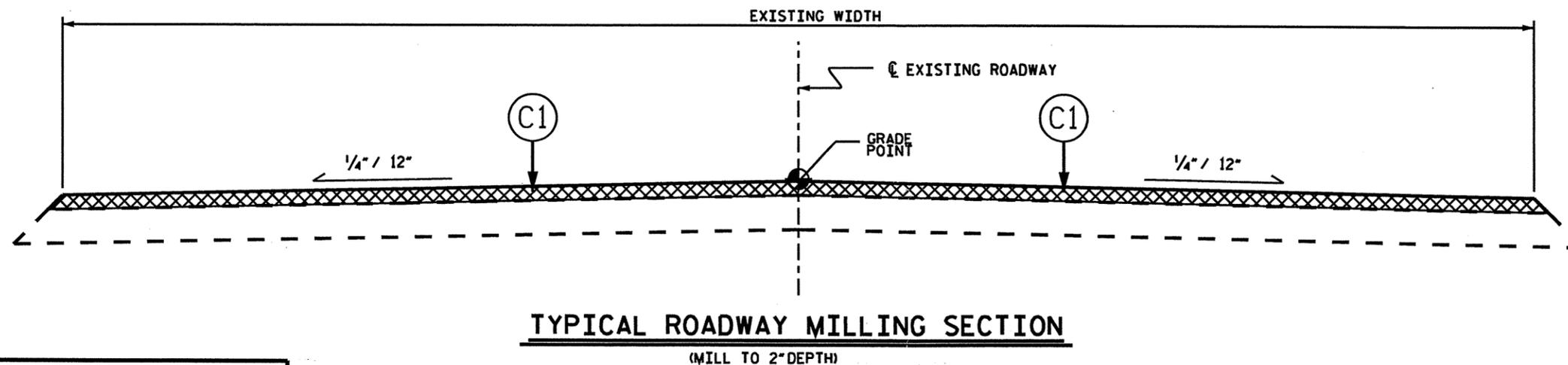
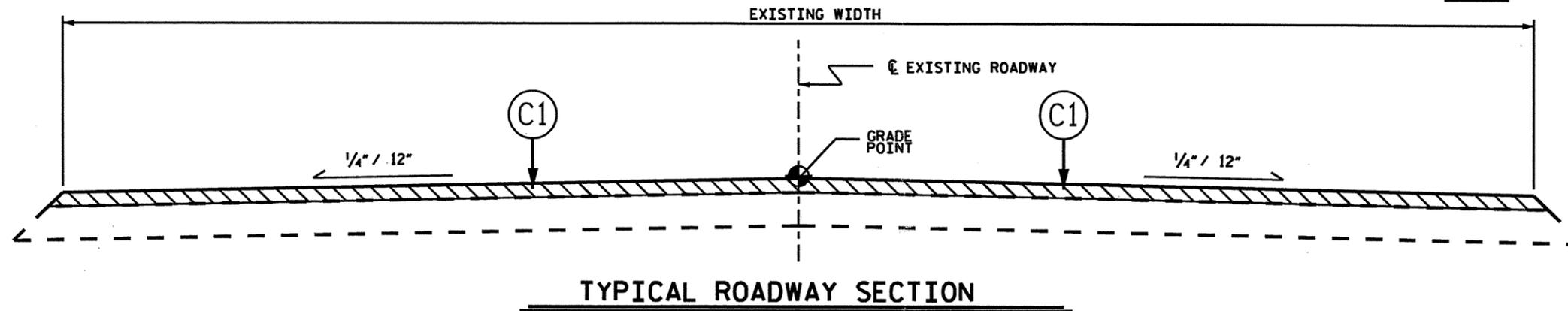
DRAWN BY : S. T. SANDOR DATE : MAY/2009
 CHECKED BY : A. ABRAHA DATE : SEPT./2009



C1 PROP. APPROX. 2" MIN. ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. IN EACH OF THE TWO LAYERS

PLAN

 DECK SCARICATION AND HYDRODEMOLITION
 APPROACH MILLING



PROJECT NO. BK-5101 C
 COUNTY: CATAWBA
 STATION: N/A
 DECK REHAB BRIDGE NO. 91

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 TYPICAL ROADWAY SECTION
 AND MILLING DETAILS
 34'-0" CLEAR ROADWAY-(90°-00' SKEW)

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

Sheet No. **S-7**
 Total Sheets **14**

DRAWN BY : S. T. SANDOR DATE : MAY/2009
 CHECKED BY : A. ABRAHA DATE : SEPT./2009

*****SYSTEM*****

*****USERNAME*****

*****DGN*****

**PLAN FOR PROPOSED
TRAFFIC CONTROL AND PAVEMENT MARKING
CATAWBA COUNTY**

LOCATION: BRIDGE #91 NC 127 OVER CATAWBA RIVER-LAKE HICKORY

TYPE OF WORK: TRAFFIC CONTROL FOR BRIDGE DECK PRESERVATION

LEGEND

- GENERAL**
- DIRECTION OF TRAFFIC FLOW
 - NORTH ARROW
 - EXIST. PVMT.
 - WORK AREA

TRAFFIC CONTROL DEVICES

- TYPE III BARRICADE
- CONE
- DRUM SKINNY DRUM
- FLASHING ARROW PANEL (TYPE C)
- STATIONARY SIGN
- PORTABLE SIGN
- STATIONARY OR PORTABLE SIGN
- PORTABLE CONCRETE BARRIER
- TEMPORARY CRASH CUSHION
- CHANGEABLE MESSAGE SIGN
- TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
- POLICE
- FLAGGER

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:

STD. NO.	TITLE
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS

INDEX OF SHEETS

SHEET NO.	TITLE
TCP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, AND INDEX OF SHEETS
TCP-2	GENERAL NOTES
TCP-3	TRAFFIC CONTROL PHASING
TCP-4	DETAIL FOR NC 127 ROAD CLOSURE
TCP-5	NC 127 OFFSITE DETOUR ROUTE

WBS 42579.3.3

PROJECT: BK-5101C

U:\Traffic\TrafficControl\bk-5101c catawba 9\top\PLANSHEETS\BK-5101C-tcp.psh_01.dgn
11/2/2009
gkarageorge

APPROVED:
DATE: Nov 2, 2009



PLAN PREPARED BY:



Stantec Consulting Services Inc.
Suite 300, 801 Jones Franklin Road
Raleigh, NC
27606
Tel. 919.851.6866
Fax. 919.851.7024
www.stantec.com

BETSY L. WATSON, PE

TRAFFIC CONTROL ENGINEER

GEORGE KARAGEORGE

TRAFFIC CONTROL DESIGNER

GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS, OR RESULT IN DUPLICATE, OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING OR REMOVAL OF DEVICES, AS DIRECTED BY THE ENGINEER.

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

LANE CLOSURE TIME RESTRICTIONS

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

ROAD NAME	DAY AND TIME RESTRICTIONS
NC 127	6:00 A.M.-7:00 P.M. MONDAY THRU THURSDAY (DAILY) 6:00 A.M. FRIDAY THRU 7:00 P.M. THE FOLLOWING SUNDAY

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

- ROAD NAME
NC 127
- HOLIDAY
- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
 - FOR NEW YEAR'S, BETWEEN THE HOURS OF 7:00 P.M. DECEMBER 31st TO 6:00 A.M. JANUARY 2nd. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 6:00 A.M. THE FOLLOWING TUESDAY.
 - FOR EASTER, BETWEEN THE HOURS OF 7:00 P.M. THURSDAY AND 6:00 A.M. MONDAY.
 - FOR MEMORIAL DAY, BETWEEN THE HOURS OF 7:00 P.M. FRIDAY TO 6:00 A.M. TUESDAY.
 - FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 7:00 P.M. THE DAY BEFORE INDEPENDENCE DAY AND 6:00 A.M. THE DAY AFTER INDEPENDENCE DAY. IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY; THEN BETWEEN THE HOURS OF 7:00 P.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 6:00 A.M. THE TUESDAY AFTER INDEPENDENCE DAY.
 - FOR LABOR DAY, BETWEEN THE HOURS OF 7:00 P.M. FRIDAY AND 6:00 A.M. TUESDAY.
 - FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 7:00 P.M. TUESDAY TO 6:00 A.M. MONDAY.
 - FOR CHRISTMAS, BETWEEN THE HOURS OF 7:00 P.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 6:00 A.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

C) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
NC 127	6:00 A.M.-7:00 P.M. MONDAY THRU THURSDAY (DAILY) 6:00 A.M. FRIDAY THRU 7:00 P.M. THE FOLLOWING SUNDAY

LANE AND SHOULDER CLOSURE REQUIREMENTS

- D) 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.
- E) 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.
- F) 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 USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- G) 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 USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- H) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.

SIGNING

- H) FURNISH AND INSTALL SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD AS SHOWN IN THE TRAFFIC CONTROL PLAN.
- I) FURNISH AND INSTALL SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE.
- J) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.
- K) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

PAVEMENT MARKINGS AND MARKERS

- L) REPLACE EXISTING MARKINGS WITH PAINT MARKINGS BEFORE OPENING LANES TO TRAFFIC. ONCE ALL DECK OVERLAY IS COMPLETE PLACE FINAL PAVEMENT MARKINGS (POLYUREA).

TRAFFIC PATTERN ALTERATIONS

- M) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

MISCELLANEOUS

- N) POLICE MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND INTERSECTIONS AS SHOWN IN THE TRAFFIC CONTROL PLAN AND AS 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) SUBMIT TO THE ENGINEER A WORK AREA QUICK CLEARANCE PLAN TO ALLOW ACCESS FOR EMERGENCY VEHICLES. CONDUCT ALL CONSTRUCTION OPERATIONS IN SUCH A MANNER AS TO ALLOW EMERGENCY VEHICLE PASSAGE THROUGH BRIDGE AT ALL TIMES.

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 Stantec <small>Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27606 Tel. 919.851.8866 Fax. 919.851.7024 www.stantec.com</small>	SEAL	 <i>W. L. Watson</i> 1/4/2010	GENERAL NOTES										
	SIGNATURE		DATE	SCALE: NONE DATE: OCT. 2009 DWG. BY: GK DESIGN BY: GK REVIEWED BY: BLW	<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	REVISIONS							
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TRAFFIC CONTROL PLAN PHASING

PHASE I

STEP 1: INSTALL WORK ZONE ADVANCE WARNING SIGNS "ROAD WORK AHEAD" AND "END ROAD WORK" AS SHOWN ON SHEET TCP-4 (ONLY SIGNS A & F). CHANGEABLE MESSAGE SIGNS MAY ALSO BE INSTALLED AT THIS TIME AND USED FOR ADVANCE PUBLIC INFORMATION AS DIRECTED BY THE ENGINEER.

STEP 2: CONSTRUCT BRIDGE DECK PRESERVATION AS FOLLOWS:

FOR BRIDGE WORK IN THE MID-SPAN AREAS USE FLAGGER OPERATION LANE CLOSURES PER ROADWAY STANDARD DRAWING 1101.01, SHEET 1 OF 9. REFER TO GENERAL NOTES FOR LANE CLOSURE DAY AND TIME RESTRICTIONS.

FOR BRIDGE WORK IN THE END-SPAN AREAS USE ROAD CLOSURE WITH OFFSITE DETOUR PER SHEETS TCP-4 AND TCP-5. REFER TO GENERAL NOTES FOR ROAD CLOSURE DAY AND TIME RESTRICTIONS.

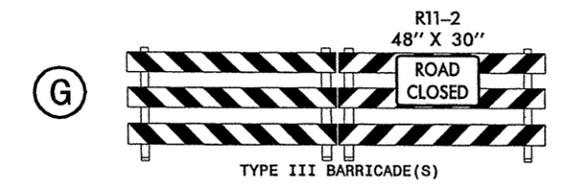
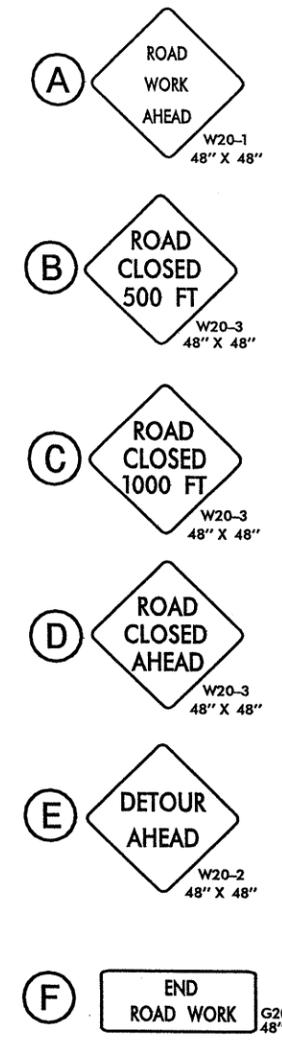
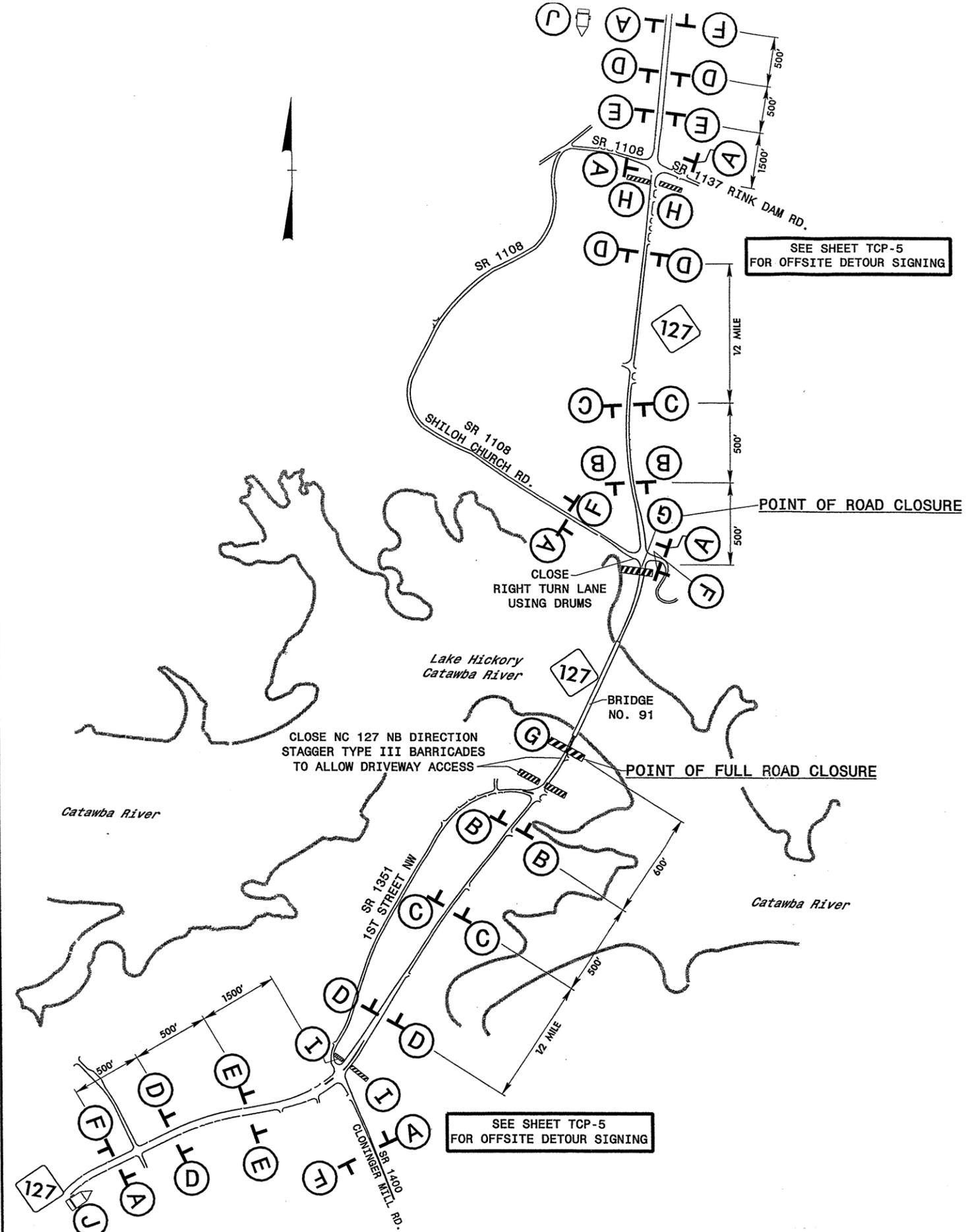
PHASE II

STEP 1: UPON COMPLETION OF ALL THE BRIDGE DECK WORK, PLACE FINAL PAVEMENT MARKINGS ON BRIDGE IN THE SAME PATTERN AS THE EXISTING MARKING. USE A FLAGGING OPERATION LANE CLOSURE WHEN PLACING PAVEMENT MARKINGS PER RDWY. STD. DWG. 1101.02 SHEET 1 OF 9.

STEP 2: UPON COMPLETION OF ALL CONSTRUCTION OPERATIONS REMOVE ALL TRAFFIC CONTROL DEVICES FROM PROJECT.

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 gkarageorge

 Stantec Stantec Consulting Services Inc. Suite 300, 801 Jones Franklin Road Raleigh, NC 27608 Tel. 919.851.8866 Fax. 919.851.7024 www.stantec.com	SEAL  <i>Peter W. Watson</i> 11/21/09	TRAFFIC CONTROL PLAN PHASING									
	SIGNATURE	DATE	SCALE: NONE DATE: OCT. 2009 DWG. BY: GK DESIGN BY: GK REVIEWED BY: BLW	<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	REVISIONS						
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J PLACE 1/2 MILE IN ADVANCE OF ROAD WORK AHEAD SIGN. EXAMPLE MESSAGES SHOWN BELOW. ALL MESSAGES TO BE APPROVED BY THE ENGINEER.

USE WHEN ROAD IS OPEN

CHANGEABLE MESSAGE SIGN	
MESSAGE NO. 1	MESSAGE NO. 2
ROAD WORK AHEAD	

USE WHEN ROAD IS OPEN WITHIN WEEK PRIOR TO CLOSURE

CHANGEABLE MESSAGE SIGN	
MESSAGE NO. 1	MESSAGE NO. 2
BRIDGE CLOSURE DAY/DATE	6 PM TO 6 AM

USED WHEN ROAD IS CLOSED

CHANGEABLE MESSAGE SIGN	
MESSAGE NO. 1	MESSAGE NO. 2
BRIDGE CLOSED AHEAD	FOLLOW DETOUR

NOTES:

1. ALL DIMENSIONS ARE APPROXIMATE (+/-). FIELD ADJUST AS NECESSARY.
2. COVER SIGNS B, C, D AND E WHEN OFFSITE DETOUR IS NOT IN OPERATION.
3. WHEN CLOSING THE ROADWAY INSTALL OR UNCOVER SIGNS BEFORE BARRICADES. WHEN RE-OPENING ROADWAY, REMOVE BARRICADES FIRST THEN COVER OR REMOVE SIGNS.
4. POSITION WING BARRICADES ON THE SHOULDERS AND SLOPE THE STRIPES DOWNWARD IN THE DIRECTION TOWARD WHICH DETOURED TRAFFIC MUST TURN.

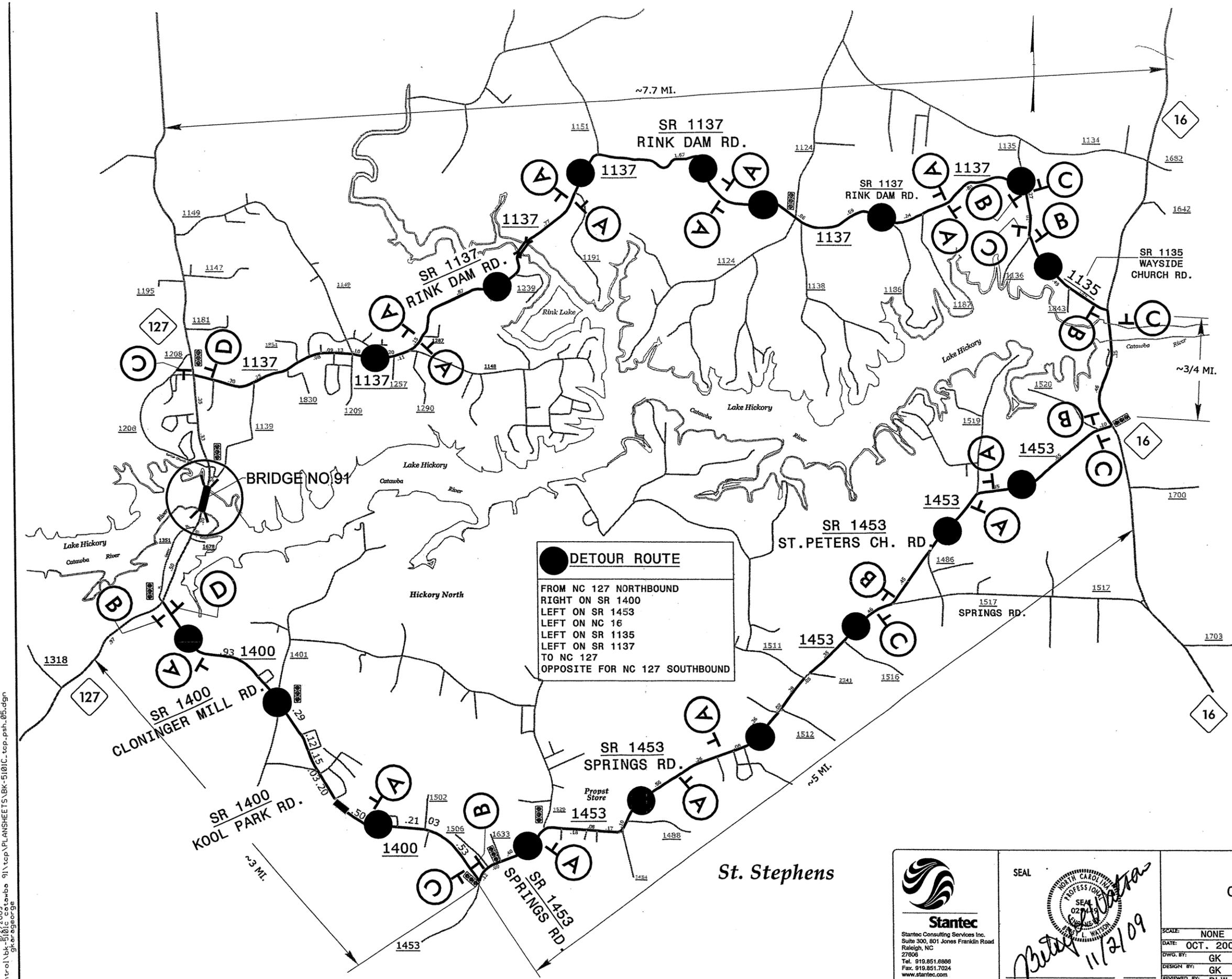
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SEAL

Paul L. Watson
11/2/09

NC 127 ROAD CLOSURE

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- (A)** DETOUR M4-8 24" X 12"
 127 M1-5
 ↑ M6-3 21" X 15"
- (B)** DETOUR M4-8 24" X 12"
 127 M1-5
 → M6-1 21" X 15"
- (C)** DETOUR M4-8 24" X 12"
 127 M1-5
 ← M6-1 L 21" X 15"
- (D)** END DETOUR M4-8 A 24" X 18"

11/2/2009
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 gk\arag@george

Stantec
 Stantec Consulting Services Inc.
 Suite 300, 801 Jones Franklin Road
 Raleigh, NC 27609
 Tel. 919.851.8888
 Fax. 919.851.7024
 www.stantec.com

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 L. WATSON
 Signature: *Blw*
 DATE: 11/2/09

NC 127 OFFSITE DETOUR ROUTE

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DATE: OCT. 2009		
DWG. BY: GK		
DESIGN BY: GK		
REVIEWED BY: BLW		CADD FILE