STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

## GRAHAM COUNTY

LOCATION: BRIDGE 10, US-129 OVER LAKE SANTEETLAH, 0.05 MILES NORTH OF JUNCTION US 129 AND SR 1144

TYPE OF WORK: BRIDGE DECK PRESERVATION

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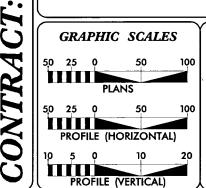
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	S-4	DECK
	<b>S</b> –5	DECK
	S6	DECK
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BRIDGE 10	R-2	GUARE

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R-1	ROADWAY CONSTRUCTION
R-2	GUARDRAIL ANCHORAGE DETAILS

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**PROJE** 



#### PROJECT LENGTH

LENGTH OF ROADWAY T.I.P. PROJECT B-5209
LENGTH OF STRUCTURE T.I.P. PROJECT B-5209
TOTAL LENGTH OF T.I.P. PROJECT B-5209

Nc-1143

= 0.019 MI. = 0.091 MI.

= 0.091 MI. = 0.110 MI. PREPARED IN THE OFFICE OF:

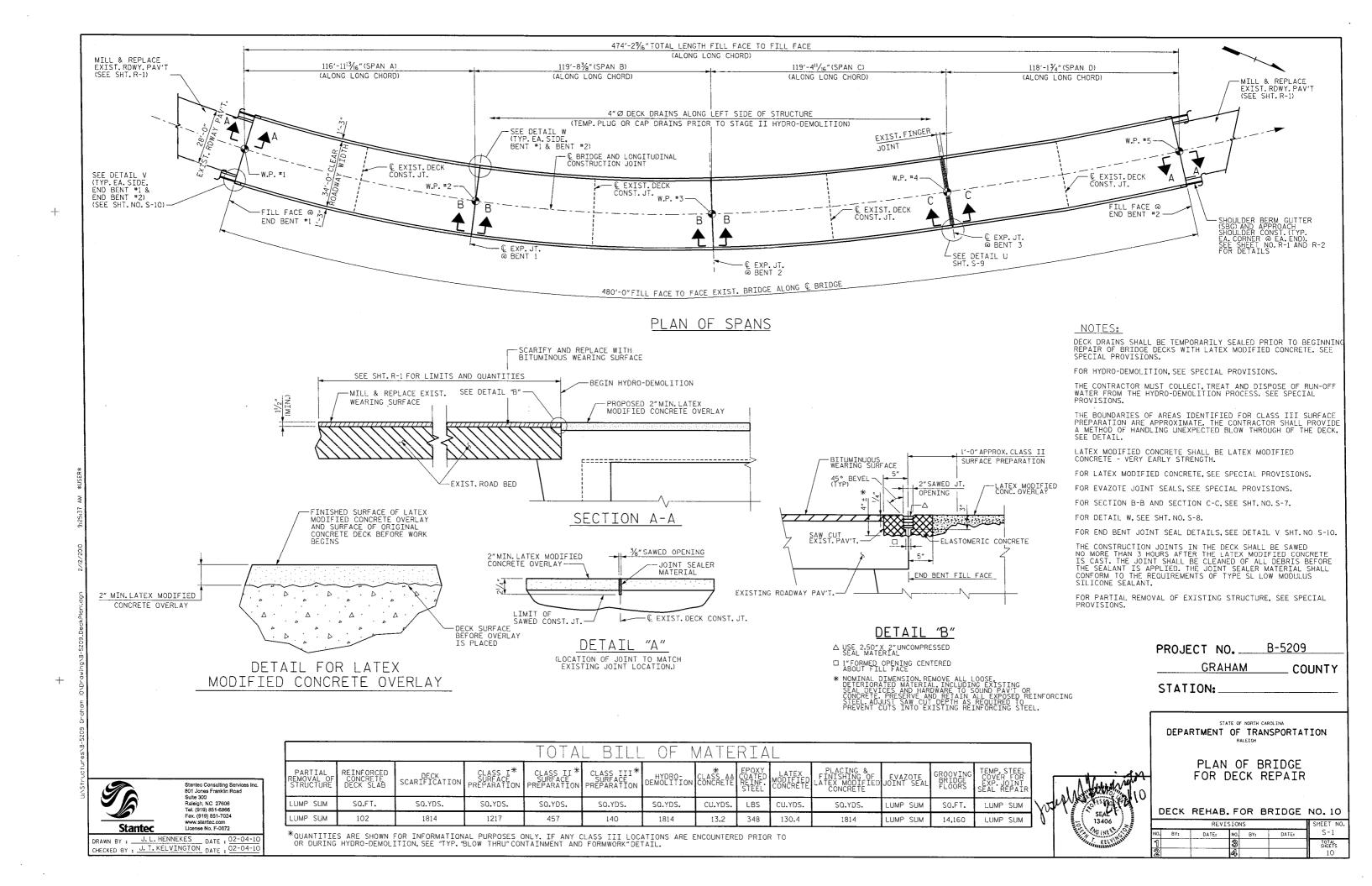
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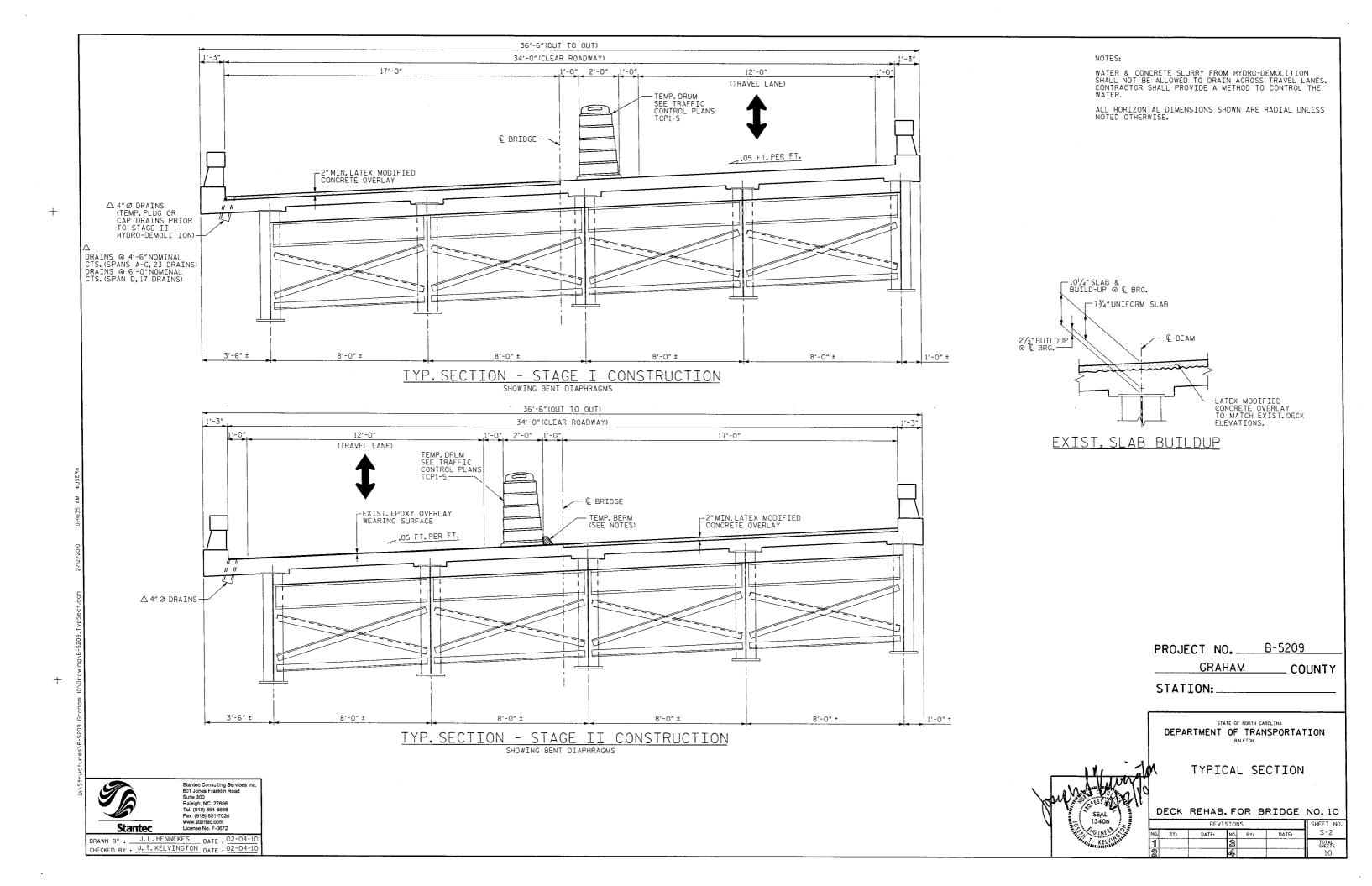
SEAL 20208 3/25/M MGINEE RICK NELSON, PE DESIGN ENGINEER



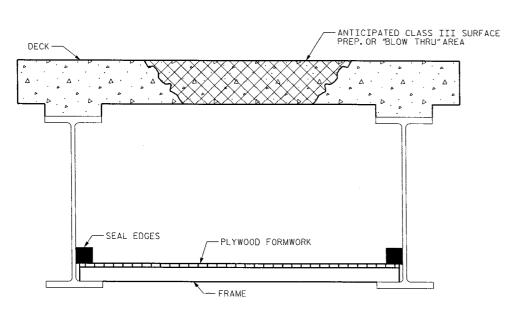
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#### PLAN OF SPAN A - DECK REPAIRS



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

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

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

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



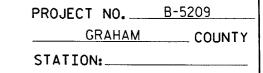
CLASS II SURFACE PREPARATION



CLASS III SURFACE PREPARATION

L'X W' = LENGTH OF AREA ALONG & BRIDGE X WIDTH OF AREA NORMAL TO & BRIDGE ±

\* RADIAL DIMENSIONS



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

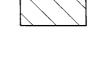
DECK REPAIR DETAILS SPAN A

DECK REHAB. FOR BRIDGE NO. 10

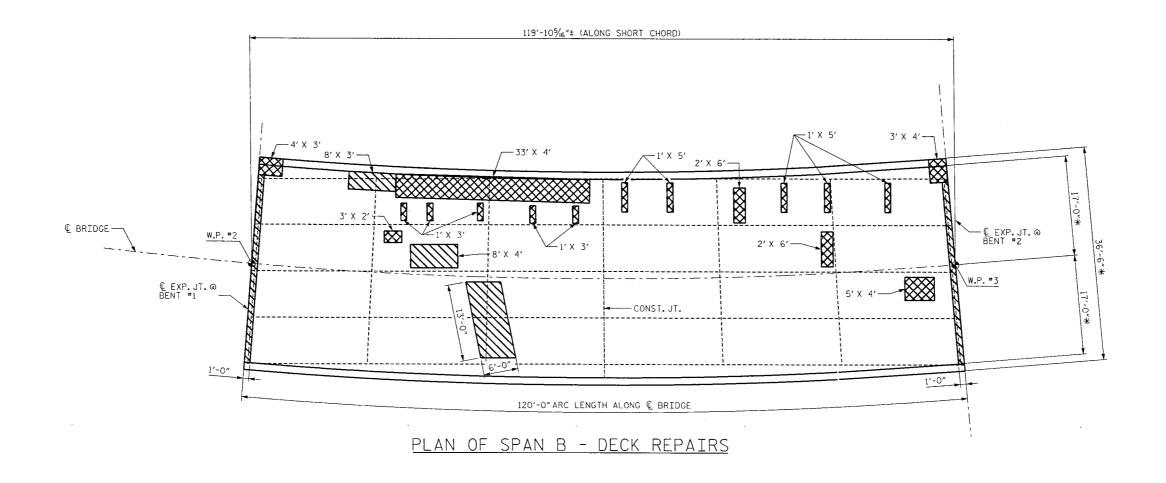
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2			4			10

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

DRAWN BY: J. L. HENNEKES DATE: 02-04-10 CHECKED BY: J. T. KELVINGTON DATE: 02-04-10







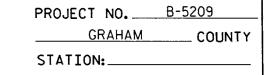
CLASS II SURFACE PREPARATION



CLASS III SURFACE PREPARATION

L'X W' = LENGTH OF AREA ALONG @ BRIDGE X WIDTH OF AREA NORMAL TO & BRIDGE ±

\* RADIAL DIMENSIONS



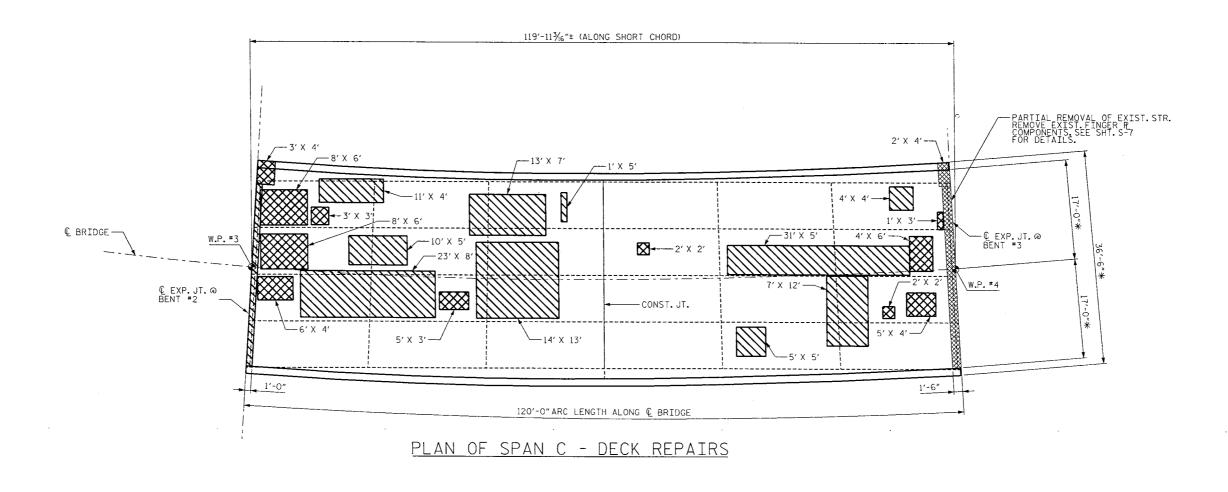
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

DECK REPAIR DETAILS SPAN B

DECK REHAB. FOR BRIDGE NO. 10

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DRAWN BY: J.L. HENNEKES DATE: 02-04-10 CHECKED BY: J.T. KELVINGTON DATE: 02-04-10



CLASS II SURFACE PREPARATION



CLASS III SURFACE PREPARATION

L'X W' = LENGTH OF AREA ALONG & BRIDGE X
WIDTH OF AREA NORMAL TO & BRIDGE

\* RADIAL DIMENSIONS

PROJECT NO. B-5209

GRAHAM COUNTY

STATION:

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION
RALEIGH

DECK REPAIR DETAILS SPAN C

DECK REHAB. FOR BRIDGE NO. 10

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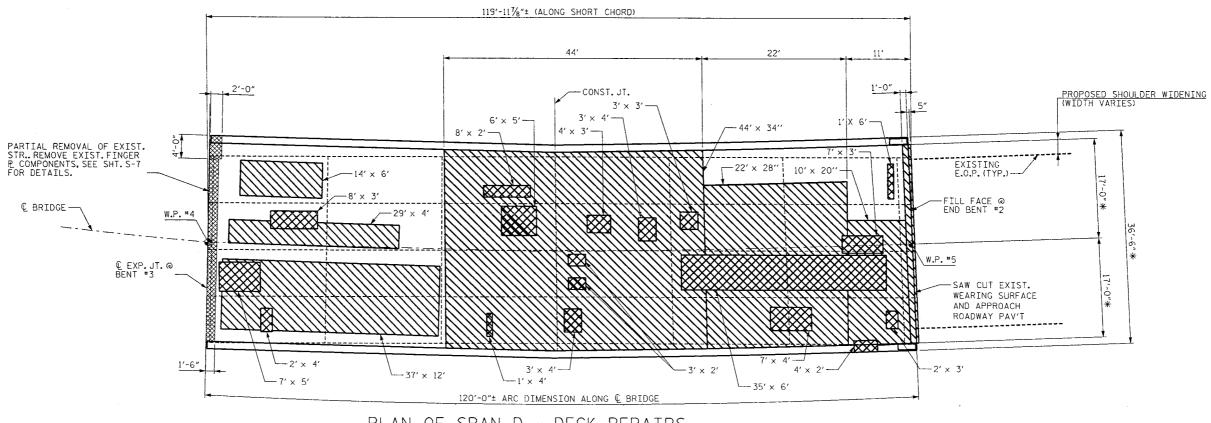
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2/12/2010 9:25

\B-5209\_Plan3.dgn

+



PLAN OF SPAN D - DECK REPAIRS

CLASS II SURFACE PREPARATION



CLASS III SURFACE PREPARATION

L'X W' = LENGTH OF AREA ALONG & BRIDGE X WIDTH OF AREA NORMAL TO @ BRIDGE ±

\* RADIAL DIMENSIONS

PROJECT NO. B-5209 GRAHAM \_\_\_\_ COUNTY STATION:\_

> STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
> RALEIGH

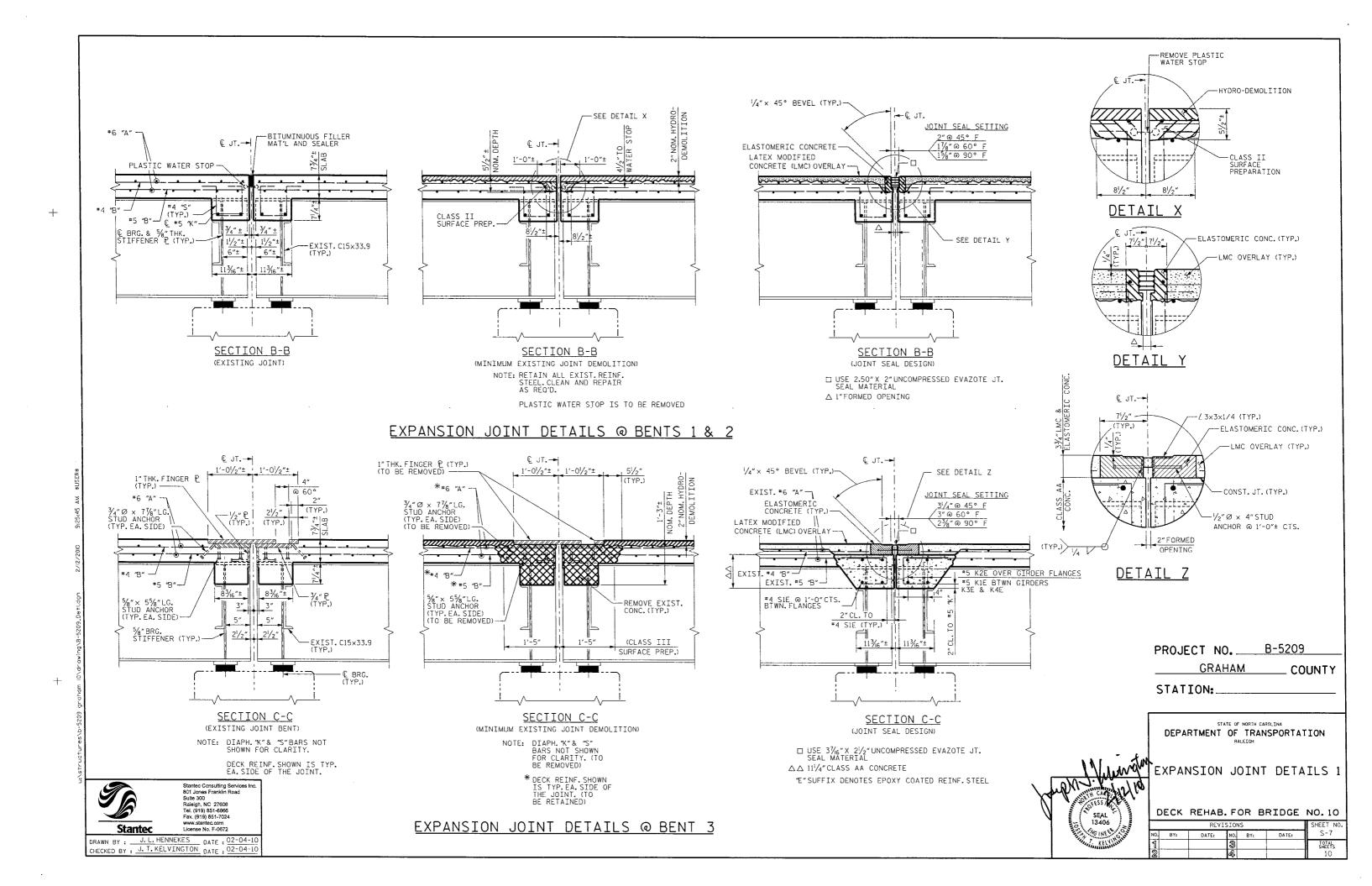
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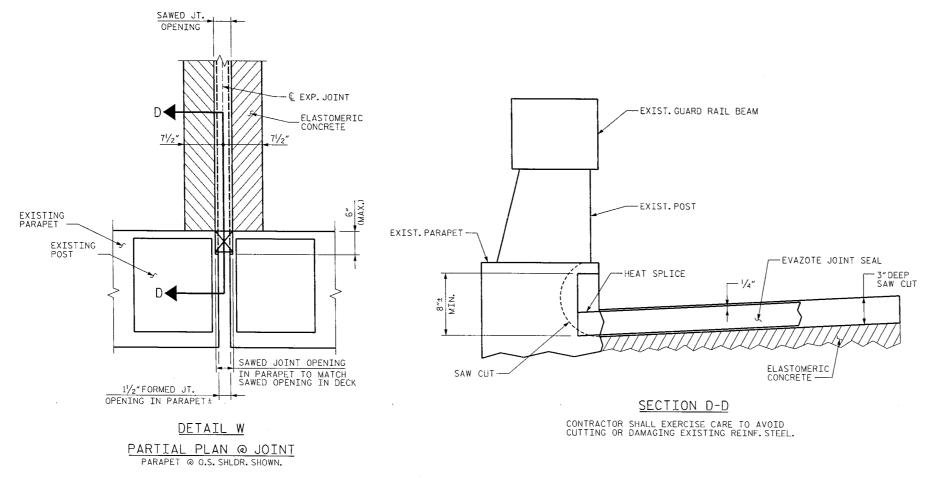
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CHECKED BY: J. T. KELVINGTON DATE: 02-04-10



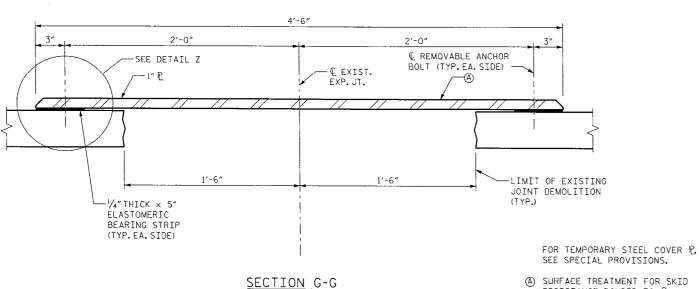


ESTIMATED VOL. OF ELASTOMERIC CONCRETE

BENT 1 18.2 CF

BENT 2 18.2 CF BENTS 1-2 TOTAL ELASTOMERIC CONC. = 36.4 CF

JOINT SEAL REPLACEMENT @ BENT 1 AND BENT 2

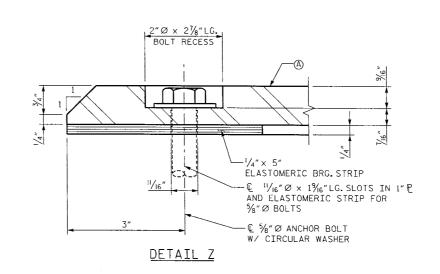


A SURFACE TREATMENT FOR SKID RESISTANCE BONDED TO P

REQUIRED ULTIMATE ANCHOR BOLT RESISTANCE:

> TENSION = 10.5k SHEAR = 1.0k

TEMPORARY COVER PLATE DETAILS FOR JOINT SEAL REPLACEMENT @ BENT 3



B-5209 PROJECT NO. \_ GRAHAM COUNTY STATION:

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION RALEIGH

EXPANSION JOINT DETAILS 2

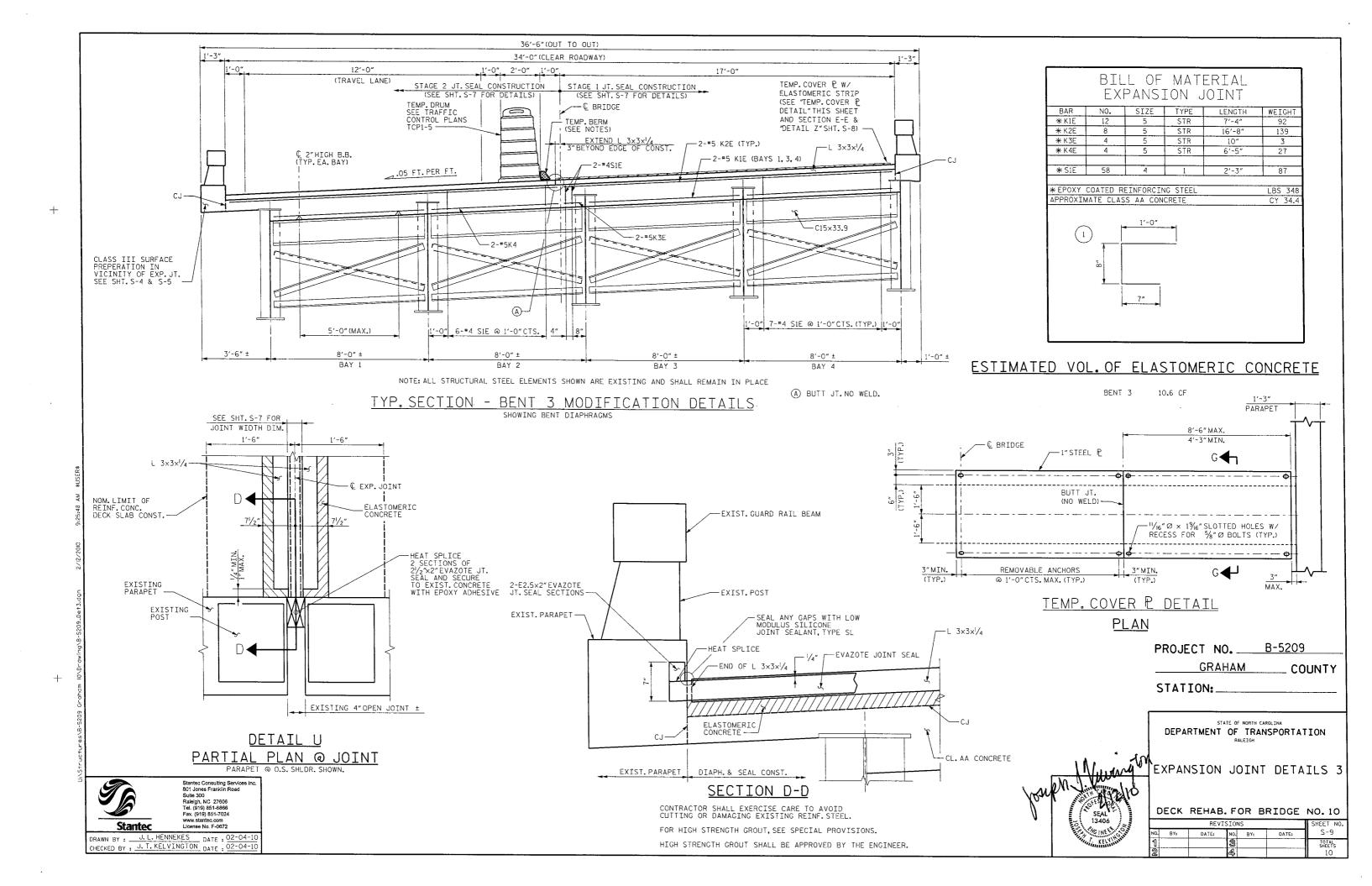
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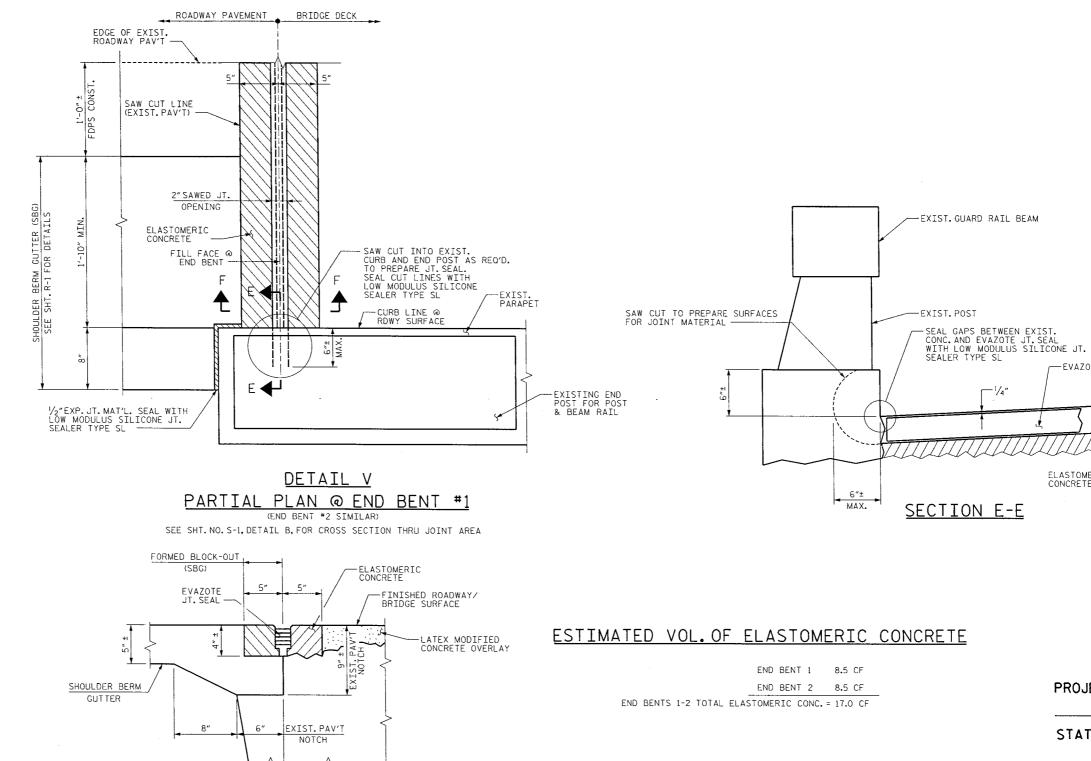
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DRAWN BY: J.L.HENNEKES DATE: 02-04-10 CHECKED BY: J.T.KELVINGTON DATE: 02-04-10





-FILL FACE @ END BENT

SECTION F-F SEE DETAIL "B" ON SHEET S-1 FOR JOINT SEAL INFORMATION

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DRAWN BY: J.L. HENNEKES DATE: 02-04-10 CHECKED BY: J. T. KELVINGTON DATE: 02-04-10

PROJECT NO. \_\_\_\_B-5209 GRAHAM COUNTY

STATION:

-EVAZOTE JOINT SEAL

ELASTOMERIC CONCRETE

-3"DEEP SAW CUT

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

END BENT JOINT SEAL DETAILS

DECK REHAB. FOR BRIDGE NO. 10

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## STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
B-5209	TCP-1

# PLAN FOR PROPOSED TRAFFIC CONTROL, MARKING & DELINEATION

## GRAHAM COUNTY

LOCATION: BRIDGE NO.10 US 129 TAPOCO RD. OVER SANTEETLAH LAKE

TYPE OF WORK: TRAFFIC CONTROL FOR BRIDGE DECK PRESERVATION

#### 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
1101.04	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
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR
1180.01	SKINNY DRUMS
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	PAVEMENT MARKER SPACING
1253.01	SNOWPLOWABLE PAVEMENT MARKERS
1261.01	GUARDRAIL & BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL & BARRIER DELINEATOR TYPES
1262.01	GUARDRAIL END DELINEATION

#### 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	PROJECT PHASING
TCP-4	PHASE I DETAIL
TCP-5	PHASE II DETAIL

#### |LEGEND|

#### **GENERAL**

DIRECTION OF TRAFFIC FLOW

NORTH ARROW

— EXIST. PVMT.

WORK AREA

#### TRAFFIC CONTROL DEVICES

TYPE III BARRICADE

▲ CONE

■ DRUM ⑤ SKINNY DRUM

FLASHING ARROW PANEL (TYPE C)

- STATIONARY SIGN

PORTABLE SIGN

| <del>-</del>

STATIONARY OR PORTABLE SIGN

PORTABLE CONCRETE BARRIER

---- TEMPORARY CRASH CUSHION

CHANGEABLE MESSAGE SIGN

TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)

LAW ENFORCEMENT

- FLAGGER

APPROVED BUILD SULLAN PREPARED BY:



Stattee Consuling Services Inc.
Suite 300, 801 Jones Franklin Road
Raleigh, NC
27606
Tel. 919.851.6866
Fax. 919.851.7024

BETSY L. WATSON, PE

GEORGE KARAGEORGE

TRAFFIC CONTROL ENGINEER
TRAFFIC CONTROL DESIGNER

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.

#### TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES DURING BRIDGE DECK PRESERVATION OPERATIONS AS FOLLOWS:

ROAD NAME ALL ROADS

DAY AND TIME RESTRICTIONS 7:00 A.M.-6:00 P.M. MONDAY THRU FRIDAY (DAILY) 7:00 A.M. SATURDAY-6:00 P.M. SUNDAY

EXCEPTION IN THE LANE CLOSURE HOUR RESTRICTIONS WILL BE MADE FOR POURING AND PARTIAL CURING OF CLASS AA AND ELASTOMERIC CONCRETE DURING REPLACEMENT OF THE EXISTING FINGER JOINT WITH THE NEW ARMORED EVAZOTE JOINT SEAL. THIS EXCEPTION WILL BE MADE FOR FOUR (4) - 24 HOUR PERIODS WHERE LANE CLOSURES WILL BE ALLOWED TO BE IN PLACE CONTINUOUSLY IN ORDER FOR THE CONCRETE MATERIALS TO PARTIALLY CURE. STEEL PLATES WILL BE USED TO COVER JOINT WHEN TRAFFIC IS ALLOWED TO

THERE ARE NO LANE CLOSURE HOURLY RESTRICTIONS DURING GUARDRAIL REPLACEMENT, MILLING, ASPHALT PAVING AND FINAL PAVEMENT MARKING OPERATIONS. HOWEVER, HOLIDAY RESTRICTIONS, AS LISTED BELOW, SHALL APPLY FOR ALL OPERATIONS.

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

HOLIDAY LANE CLOSURE RESTRICTIONS APPLY FOR ALL WORK OPERATIONS.

ROAD NAME ALL ROADS

#### HOLIDAY

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

#### LANE AND SHOULDER CLOSURE REQUIREMENTS

- C) 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.
- D) 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.
- D) 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.
- E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, 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.

#### PAVEMENT EDGE DROP OFF REQUIREMENTS

F) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAVE AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

G) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) IN ADVANCE AND A MINIMUM OF 500 FT. EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

#### MISCELLANEOUS

- H) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.
- I) ALL DIMENSIONS AND STATIONS IN THE TRAFFIC CONTROL PLAN AND PHASING ARE APPROXIMATE; FIELD ADJUST AS NECESSARY OR AS DIRECTED BY THE ENGINEER.
- J) THE CONTRACTOR IS TO FURNISH, INSTALL, MAINTAIN, RELOCATE AND REMOVE CHANGEABLE MESSAGE SIGNS DURING VARIOUS STAGES OF CONSTRUCTION AT THE DISCRETION OF THE ENGINEER TO ADEQUATELY INFORM MOTORISTS OF CHANGING WORK ZONE CONDITIONS.
- K) ENSURE THE OVERSIZE/OVERWEIGHT PERMIT UNIT (919) 733-4740 HAS BEEN ADVISED OF THE ONGOING TRAFFIC OPERATIONS THROUGH THE DIVISION OFFICE. INFORM OF THE AREAS OF CONSTRICTED HORIZONTAL CLEARANCES AND NARROW LANES
- L) COORDINATE WITH THE ENGINEER TO MAKE SURE THAT THE NECESSARY PUBLIC INFORMATION MEASURES HAVE BEEN ADDRESSED.

#### TRAFFIC PATTERN ALTERATIONS

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

#### TRAFFIC CONTROL DEVICES

N) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY WHEN LANE CLOSURES ARE NOT IN EFFECT. WHEN SKINNY DRUMS ARE ALLOWED REFER TO SECTION 1180 OF STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES OR AS SHOWN IN THE PLANS.

#### PAVEMENT MARKINGS AND MARKERS

- O) USE PAINT TO REPLACE EXISTING PAVEMENT MARKINGS THAT WERE OBLITERATED BY CONSTRUCTION OPERATIONS BEFORE LANES ARE RE-OPENED TO TRAFFIC.
- P) UPON COMPLETION OF ALL OTHER CONSTRUCTION OPERATIONS INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS

ROAD NAME US 129

MARKING PAINT (2 APPS.)

MARKER SNOWPLOWABLE

REPLACE ANY EXISTING SNOWPLOWABLE PAVEMENT MARKERS THAT WERE REMOVED DUE TO CONSTRUCTION OPERATIONS, AS DIRECTED BY THE ENGINEER.

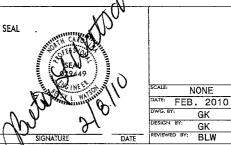
Q) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

NONE

GK

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**GENERAL NOTES** 



REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
B-5209	TCP-3

#### TRAFFIC CONTROL PHASING

FOR ALL CONSTRUCTION OPERATIONS DURING THIS PROJECT USE FLAGGER LANE CLOSURES IN ACCORDANCE WITH RDWY. STD. DWG. 1101.02, SHEET 1 OF 9.

PHASE I (TCP-4)

STEP 1: INSTALL CHANGEABLE MESSAGE SIGNS AND WORK ZONE ADVANCE WARNING SIGNS "ROAD WORK AHEAD" (W20-1) AND "END ROAD WORK" (G20-2) ON US 129 AND INTERSECTING ROADS AS SHOWN ON SHEET TCP-4.

STEP 2: USING FLAGGING OPERATION LANE CLOSURES, CONSTRUCT PAVED SHOULDERS AND REPLACE EXISTING GUARDRAIL AT THE BRIDGE APPROACHES ON US 129 AS SHOWN ON SHEET TCP-4 AND IN THE ROADWAY PLAN. NOTE THAT LANE CLOSURE HOUR RESTRICTIONS DO NOT APPLY FOR GUARDRAIL AND ASPHALT PAVING OPERATIONS (SEE GENERAL NOTES).

> NOTE: REPLACE SECTIONS OF GUARDRAIL IN A CONTINUOUS OPERATION. WHEN LANE CLOSURES ARE REMOVED ALL GUARDRAIL, WHETHER EXISTING OR PROPOSED MUST BE IN PLACE.

THE EXISTING OVERLOOK AREA NEAR THE SOUTH END OF THE BRIDGE MAY BE USED AS A STAGING AREA FOR CONSTRUCTION EQUIPMENT AND MATERIALS AS DIRECTED BY THE ENGINEER. CLOSE THE OVERLOOK AREA USING DRUMS AND BARRICADES TO PREVENT TRAFFIC FROM ENTERING.

PHASE II (TCP-5)

CONSTRUCT BRIDGE DECK PRESERVATION STAGE I AND STAGE II USING FLAGGING OPERATION LANE CLOSURES, AS SHOWN ON SHEET TCP-5 AND IN THE STRUCTURES PLAN. REFER TO GENERAL NOTES FOR LANE CLOSURE TIME RESTRICTIONS.

USE STEEL PLATES AS NECESSARY TO PROTECT JOINT WORK UPON RE-OPENING LANES TO TRAFFIC.

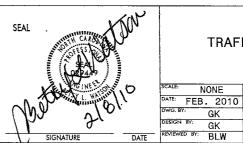
WHEN USING STEEL PLATE ON ROADWAY MODIFY CHANGEABLE MESSAGE SIGN MESSAGE AS SHOWN ON SHEET TCP-5.

PHASE III

PERFORM MILLING AND PAVING OPERATIONS AND PLACE FINAL PAVEMENT MARKINGS AND MARKERS USING FLAGGING OPERATION LANE

NOTE THAT LANE CLOSURE HOUR RESTRICTIONS DO NOT APPLY FOR ASPHALT PAVING OPERATIONS AND PLACEMENT OF FINAL PAVEMENT MARKING (SEE GENERAL NOTES).





TRAFFIC CONTROL PHASING

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