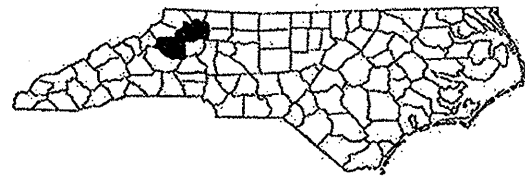


8/28/12

CONTRACT: C203123 **TIP PROJECT: 17BP.II.H.3**



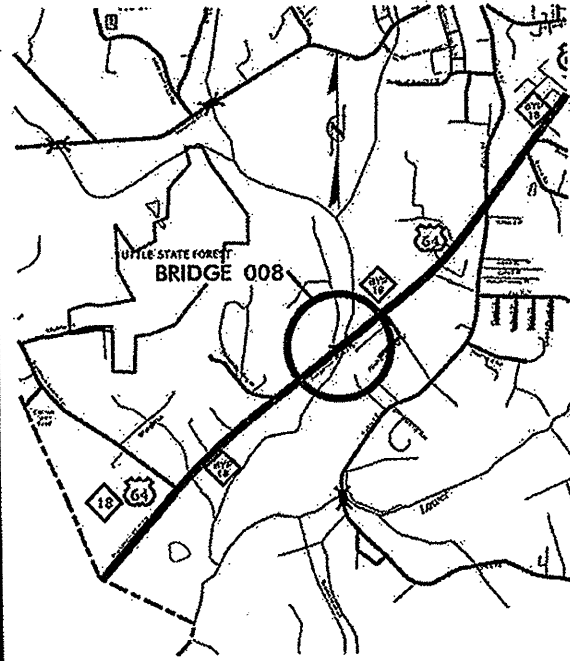
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CALDWELL & WILKES COUNTIES

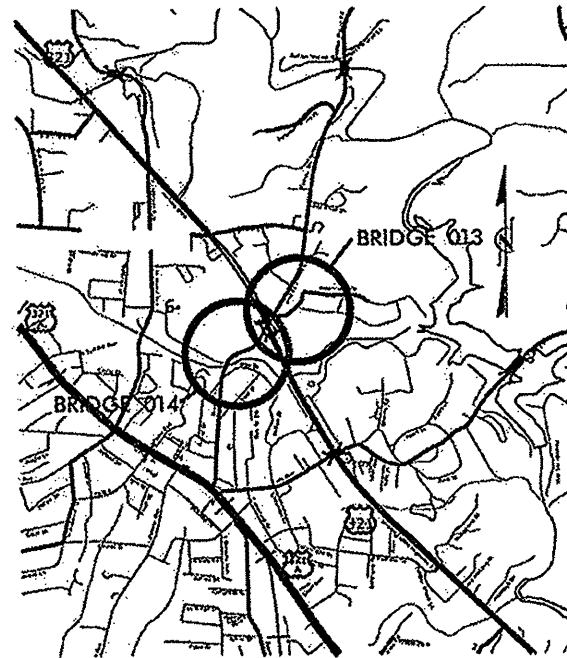
LOCATION: CALDWELL CO. - BRIDGE 8 ON US 64, NC 18 OVER SETZER CREEK
CALDWELL CO. - BRIDGE 13 ON US 321 NBL OVER SR 1002
CALDWELL CO. - BRIDGE 14 ON US 321 SBL OVER SR 1002
WILKES CO. - BRIDGE 56 ON NC 268 OVER BEAVER CREEK

TYPE OF WORK: BRIDGE PRESERVATION: LATEX MODIFIED CONCRETE OVERLAY

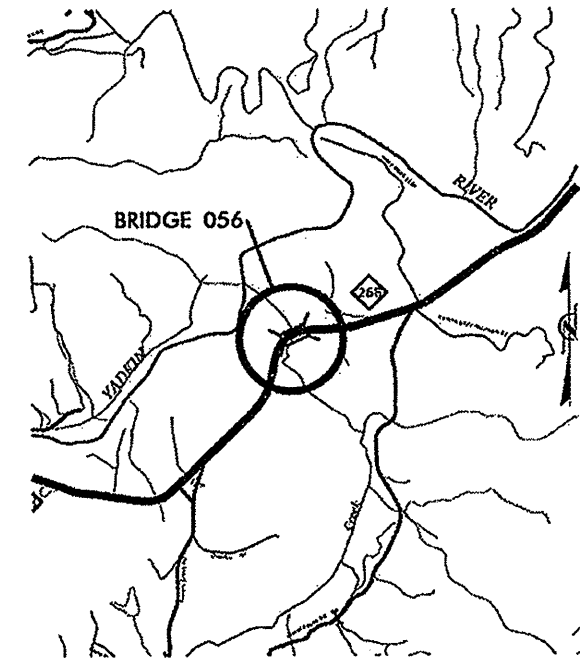
STATE	STATE PROJECT REFERENCE NO.	DIST. NO.	TOTAL SHEETS
N.C.	WBS 17BP.II.H.3	1	
WBS NO.	S.A. PROJECT NO.	DESCRIPTION	
17BP.II.H.3		PE	
17BP.II.H.3		CONST.	



BRIDGE 008 LOCATION
CALDWELL CO.



BRIDGES 013 & 014 LOCATIONS
CALDWELL CO.




BRIDGE 056 LOCATION
WILKES CO.

VICINITY MAP

*****SYSTEMS*****
*****SERVICES*****

		PROJECT LENGTH


PREPARED IN THE OFFICE OF:
 Stantec
 FOR THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: N.A.
 LETTING DATE: JULY 17, 2012

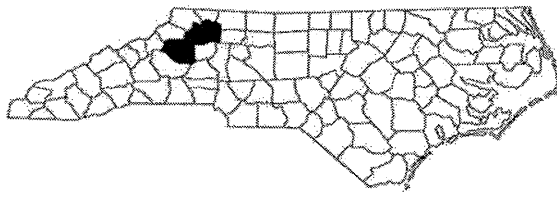
JOE KELVINGTON, PE
 PROJECT DESIGN ENGINEER

NORTH CAROLINA
PROFESSIONAL
SEAL
 20208
 5/30/12
ENGINEER
ERIC P. WILSON, JR.
 PROJECT ENGINEER

DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA



8/2/2013/4/19
CONTRACT: C203123
TIP PROJECT: 17BP.11.H.3
\$\$\$SYTIME\$\$\$\$\$
\$\$\$DUNEDCIN\$\$\$\$\$
\$\$\$SERNAME\$\$\$\$\$



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CALDWELL & WILKES COUNTIES

LOCATION: CALDWELL CO. - BRIDGE 8 ON US 64, NC 18 OVER SETZER CREEK
CALDWELL CO. - BRIDGE 13 ON US 321 NBL OVER SR 1002
CALDWELL CO. - BRIDGE 14 ON US 321 SBL OVER SR 1002
WILKES CO. - BRIDGE 56 ON NC 268 OVER BEAVER CREEK

TYPE OF WORK: BRIDGE PRESERVATION: LATEX MODIFIED CONCRETE OVERLAY

INDEX OF SHEETS

DWG.	DESCRIPTION
1	TITLE SHEET
1A	INDEX OF SHEET
2	SUMMARY OF QUANTITIES
S-1 THRU S-7	CALDWELL CO. BRIDGE 8 PLANS
S-8 THRU S-14	CALDWELL CO. BRIDGE 13 PLANS
S-15 THRU S-21	CALDWELL CO. BRIDGE 14 PLANS
S-22 THRU S-28	WILKES CO. BRIDGE 56 PLANS
TMP-1 THRU TMP-5	TRANSPORTATION MANAGEMENT PLANS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	WBS 17BP.11.H.3	1A	
WBS NO.	P.A. PROJ. NO.	DESCRIPTION	
17BP.11.H.3		PE	
17BP.11.H.3		CONST.	

09/25/99

TIP PROJECT: 17BP.11.H.3

C203123

CONTRACT:

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

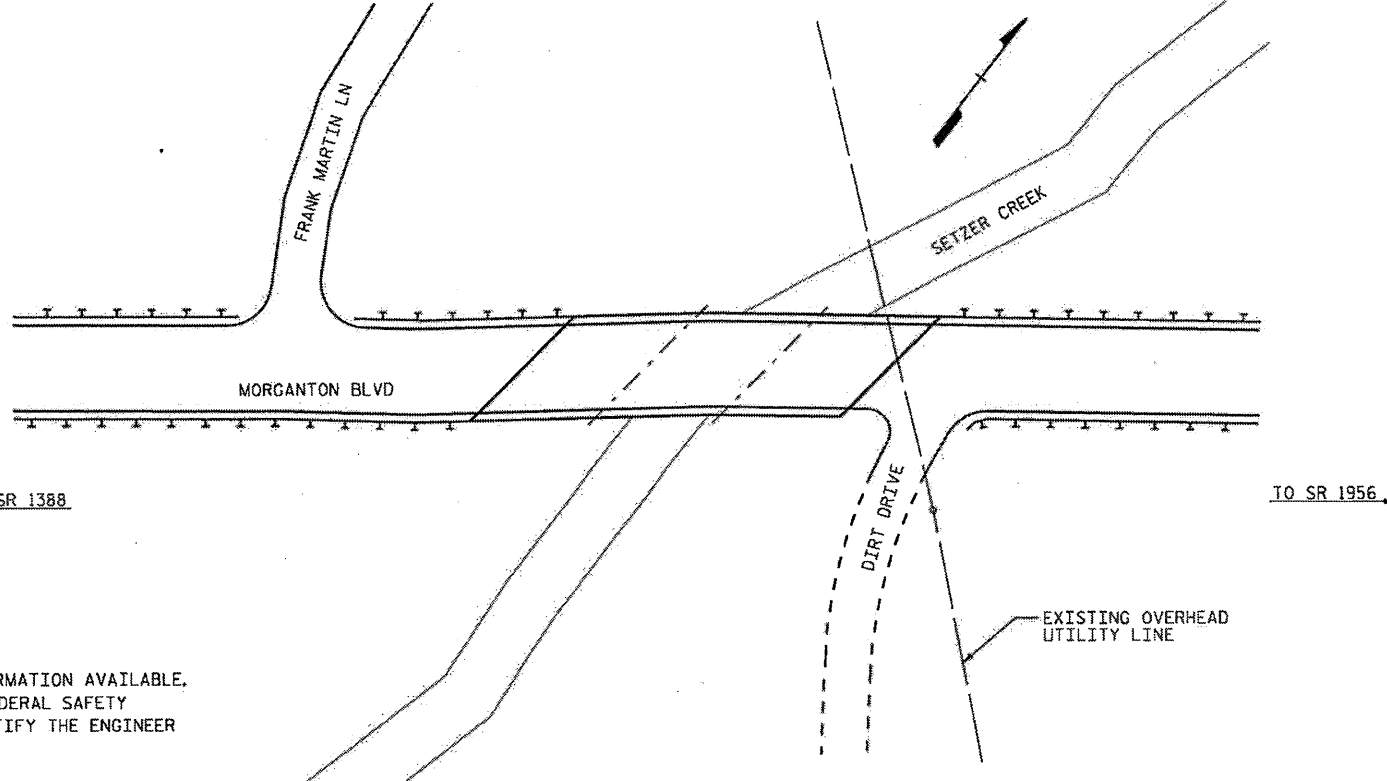
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	WBS 17BP.11.H.3	2	

SUMMARY OF QUANTITIES

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C203123

ItemNumber	Sec #	Quantity	Unit	Description
0000100000-N	800	Lump Sum		MOBILIZATION
1330000000-E	607	1,736.4	SY	INCIDENTAL MILLING
1519000000-E	610	27	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B
1523000000-E	610	110	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5C
1575000000-E	620	8	TON	ASPHALT BINDER FOR PLANT MIX
4400000000-E	1110	320	SF	WORK ZONE SIGNS (STATIONARY)
4405000000-E	1110	388	SF	WORK ZONE SIGNS (PORTABLE)
4415000000-N	1115	1	EA	FLASHING ARROW BOARD
4422000000-N	1120	30	DAY	PORTABLE CHANGEABLE MESSAGE SIGN (SHORT TERM)
4430000000-N	1130	175	EA	DRUMS
4435000000-N	1135	20	EA	CONES
4450000000-N	1150	256	HR	FLAGGER
4480000000-N	1165	1	EA	TMA
4847000000-E	1205	1,725	LF	POLYUREA PAVEMENT MARKING LINES (4" *****) (STANDARD GLASS BEADS)
4905000000-N	1253	12	EA	SNOWPLOWABLE PAVEMENT MARKERS
8161000000-E	420	15,958	SF	GROOVING BRIDGE FLOORS
8692000000-N	SP	Lump Sum		FOAM JOINT SEALS
8881000000-E	SP	114.5	CY	GENERIC STRUCTURE ITEM LATEX MOD CONC OVERLAY - VERY EARLY STRENGTH
8893000000-E	SP	2,083.8	SY	GENERIC STRUCTURE ITEM HYDRO-DEMOLITION OF BRIDGE DECK
8893000000-E	SP	2,083.8	SY	GENERIC STRUCTURE ITEM PLACING & FINISHING LATEX MOD CONC OVERLAY VERY EARLY STRENGTH
8893000000-E	SP	2,083.8	SY	GENERIC STRUCTURE ITEM SCARIFYING BRIDGE DECK

\$\$\$SYTIME\$\$\$
\$\$\$DCIM\$\$\$
\$\$\$NAME\$\$\$



NOTES:
 EXISTING DIMENSIONS AND BRIDGE CONDITION ARE FROM THE BEST INFORMATION AVAILABLE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL STATE AND FEDERAL SAFETY REQUIREMENTS. THE CONTRACTOR SHALL FIELD VERIFY THE PLANS AND NOTIFY THE ENGINEER IF ACTUAL DIMENSIONS AND CONDITIONS DIFFER.

ROADWAY SCARIFICATION IS INCLUDED TO ENSURE A SMOOTH TRANSITION ONTO THE BRIDGE FLOOR. DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL SCARIFY AS REQUIRED TO PROVIDE A SMOOTH TRANSITION TO THE ROADWAY AT BOTH ENDS OF THE BRIDGE.

FOR FOAM JOINT SEALS, SEE SPECIAL PROVISIONS.

FOR ELASTOMERIC CONCRETE, SEE SPECIAL PROVISIONS.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

BRIDGE 8 ON US 64, NC 18

LOCATION: BRIDGE 130008, US 64, NC 18 OVER SETZER CREEK
 0.3 MILES NORTHEAST OF JUNCTION WITH SR 1388

TOTAL BILL OF MATERIAL

INCIDENTAL MILLING	SCARIFYING BRIDGE DECK	CLASS I * SURFACE PREPARATION	CLASS II * SURFACE PREPARATION	CLASS III * SURFACE PREPARATION	HYDRO-DEMOLITION OF BRIDGE DECK	CLASS AA * CONCRETE	LATEX MODIFIED CONCRETE OVERLAY- VERY EARLY STRENGTH	PLACING & FINISHING LATEX MODIFIED CONCRETE OVERLAY- VERY EARLY STRENGTH	FOAM JOINT SEALS	GROOVING BRIDGE FLOORS	ASPHALT CONC. SURF. COURSE TYPE S9.5C
SO.YDS.	SO.YDS.	SO.YDS.	SO.YDS.	SO.YDS.	SO.YDS.	CU.YDS.	CU.YDS.	SO.YDS.	LUMP SUM	SQ.FT.	TON
433.3	373.4	0	5.3	0	373.4	0	17.9	373.4	LUMP SUM	2,788	35

* QUANTITIES ARE ESTIMATES FROM BEST AVAILABLE DATA, AND SHOULD BE CONSIDERED FOR INFORMATION PURPOSES ONLY. IF ANY CLASS III LOCATIONS ARE ENCOUNTERED PRIOR TO OR DURING HYDRO-DEMOLITION, SEE TYP. "BLOW THRU" CONTAINMENT AND FORMWORK DETAIL. NO SEPARATE MEASUREMENT OR PAYMENT FOR THESE ITEMS WILL BE MADE, ALL COSTS FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR HYDRO-DEMOLITION.

PROJECT NO. WBS 17BP.11.H.3

CALDWELL COUNTY

STATION: _____

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

**LOCATION SKETCH AND
 TOTAL BILL OF MATERIAL**

DECK REHAB. FOR BRIDGE NO. 8

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

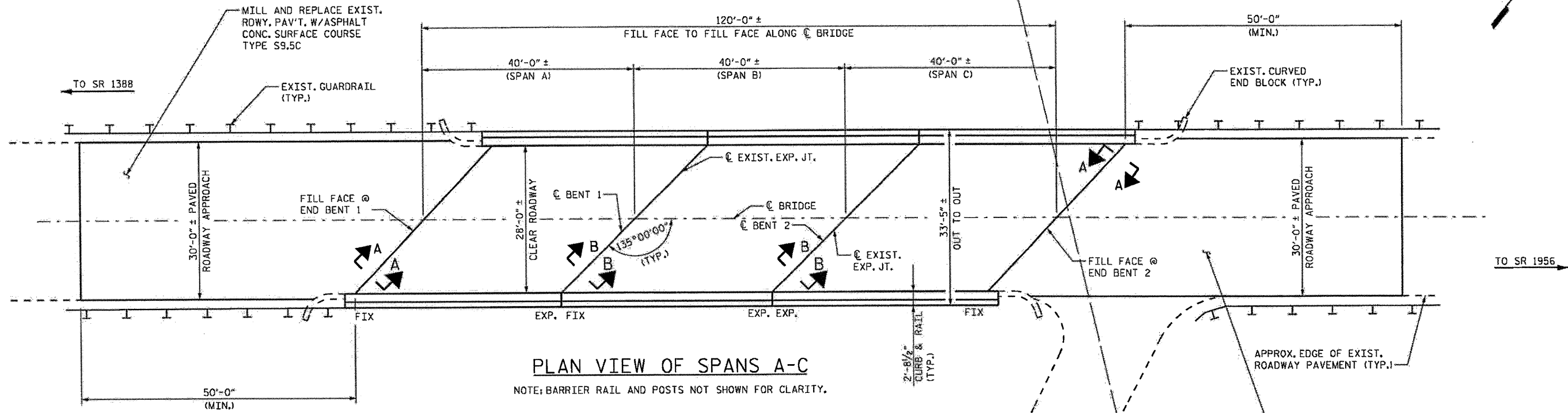
James J. Kelvington
 12/15/11



Z:\17BP.11.H.3_Caldwell & Wilkes Co\Caldwell & Wilkes Co\Drawings\8BP.LS.DOC.dgn 5/20/2012 10:38:59 AM jpe/lf

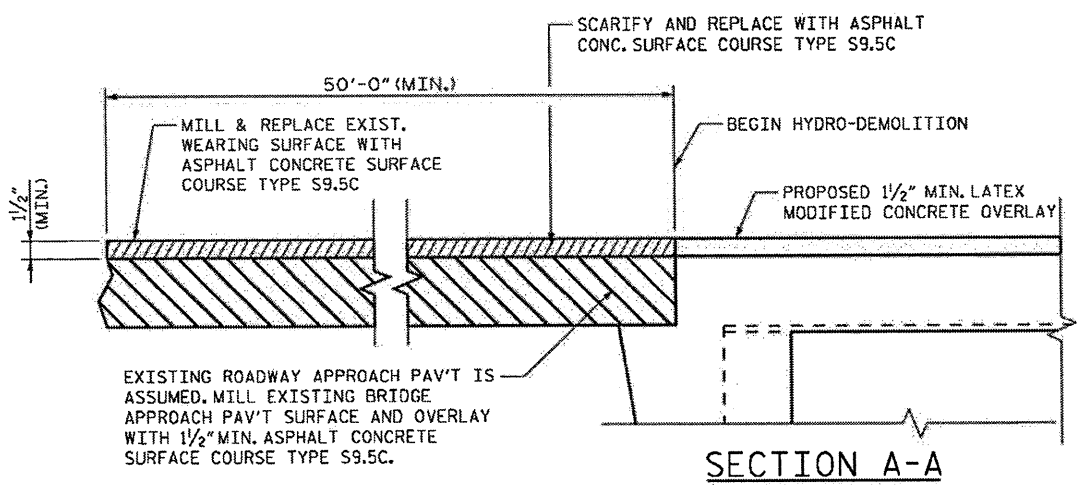
Stantec Consulting Services Inc.
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 Suite 300
 Raleigh, NC 27606
 Tel. (919) 851-8866
 Fax. (919) 851-7024
 www.stantec.com
 License No. F-0672

DRAWN BY : B. C. MACYOWSKY DATE : 12-15-11
 CHECKED BY : J. T. KELVINGTON DATE : 12-15-11

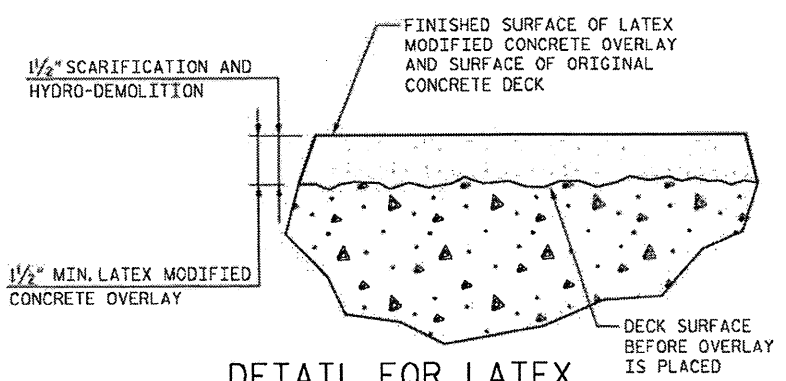


PLAN VIEW OF SPANS A-C

NOTE: BARRIER RAIL AND POSTS NOT SHOWN FOR CLARITY.



SECTION A-A



DETAIL FOR LATEX MODIFIED CONCRETE OVERLAY

NOTES:

- EXISTING JOINTS AND DECK DRAINS SHALL BE SEALED PRIOR TO BEGINNING REPAIR OF BRIDGE DECKS WITH LATEX MODIFIED CONCRETE. 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.
- LATEX MODIFIED CONCRETE SHALL BE LATEX MODIFIED CONCRETE - VERY EARLY STRENGTH.
- FOR LATEX MODIFIED CONCRETE - VERY EARLY STRENGTH, SEE SPECIAL PROVISIONS.
- FOR SECTION B-B, SEE SHT. NO. S-7.

PROJECT NO. WBS 17BP.11.H.3
CALDWELL COUNTY
STATION: _____

STATE OF NORTH CAROLINA				SHEET NO.	
DEPARTMENT OF TRANSPORTATION				5-2	
RALEIGH				TOTAL SHEETS	
PLAN OF BRIDGE				28	
DECK REHAB. FOR BRIDGE NO. 8					
REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

Joseph A. Kuvshinov
 12/15/11
 SEAL 13406
 J. KELVINGTON

2011 WBS 17BP.11.H.3 Caldwell & Wilkes Co\Calwell\17BP.11.H.3.dwg B:\Drawing\BPP_Plan.dgn 5/30/2012 10:40:01AM Jgelle

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 www.stantec.com
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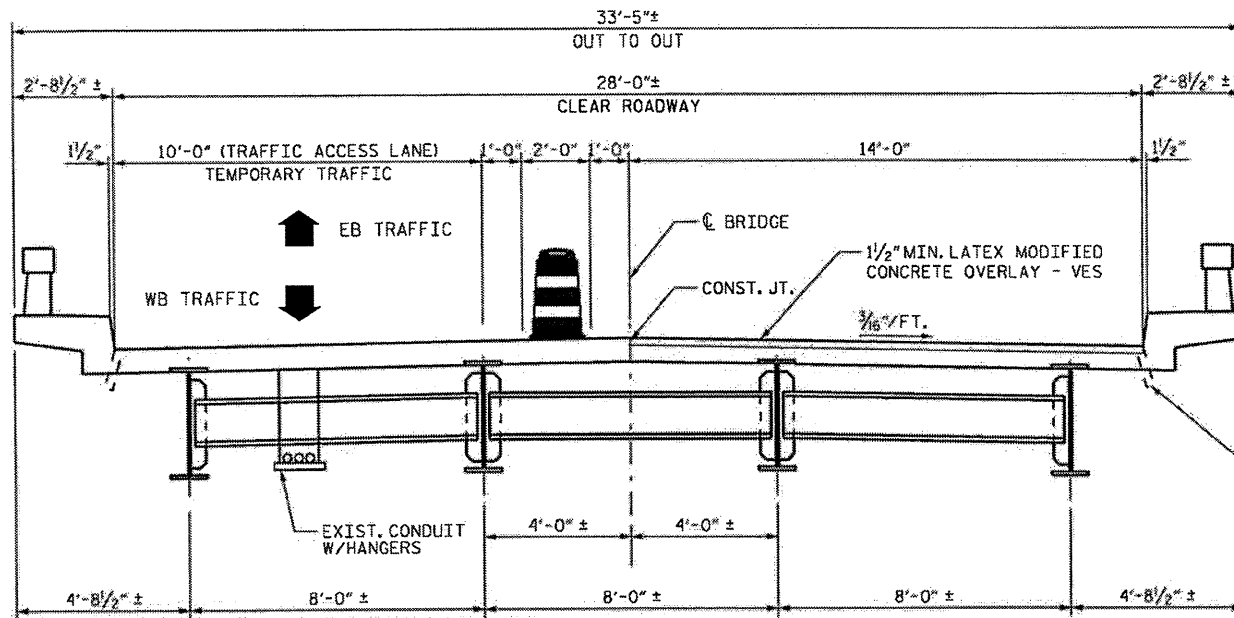
DRAWN BY : B. C. MACYOWSKY DATE : 12-15-11
 CHECKED BY : J. T. KELVINGTON DATE : 12-15-11

NOTES:

"VES" DENOTES VERY EARLY STRENGTH.

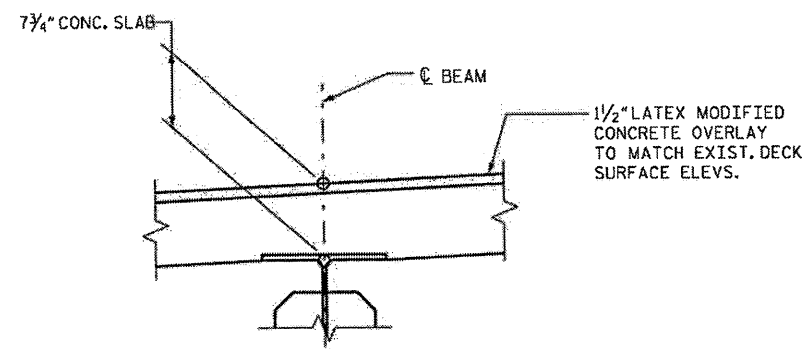
WATER & CONCRETE SLURRY FROM HYDRO-DEMOLITION SHALL NOT BE ALLOWED TO DRAIN ACROSS TRAVEL LANES. CONTRACTOR SHALL PROVIDE A METHOD TO CONTROL THE WATER.

FOR TRAFFIC CONTROL AND CONSTRUCTION PHASING, SEE TRANSPORTATION MANAGEMENT PLANS.

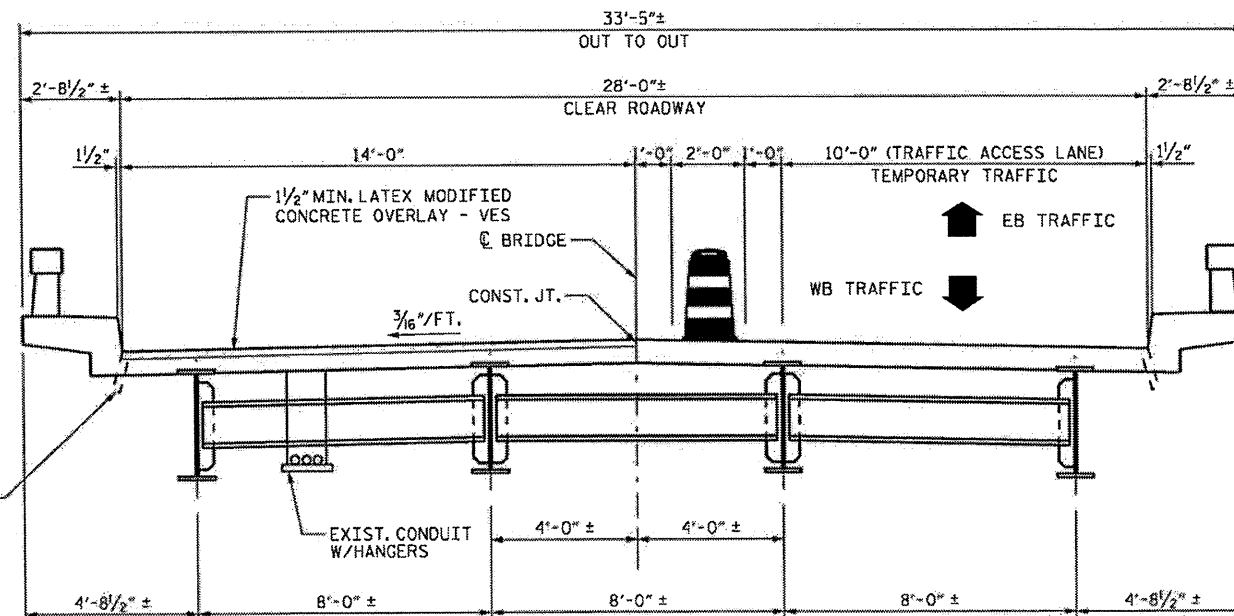


TYPICAL SECTION

(SPANS A, B, C)



EXIST. SLAB BUILDUP



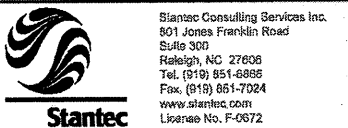
TYPICAL SECTION

(SPANS A, B, C)

PROJECT NO. WBS 17BP.11.H.3

CALDWELL COUNTY

STATION: _____



DRAWN BY : B. C. MACYOWSKY DATE : 12-15-11
CHECKED BY : J. T. KELVINGTON DATE : 12-15-11

J. T. Kelvington
6/20/12

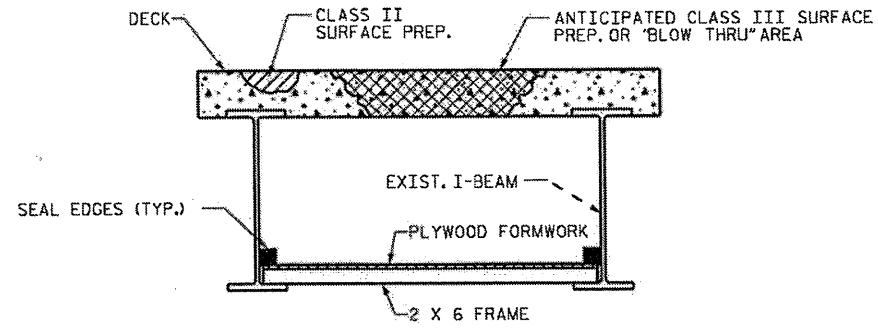
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

BRIDGE TYPICAL SECTION

DECK REHAB. FOR BRIDGE NO. 8

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

c:\p\2011\WBS 17BP.11.H.3 Caldwell & Wilkes Co\Caldwell Bridge 8\Drawings\SPB_TYP.dgn 5/30/2012 10:40:03 AM Jgelle



TYP. "BLOW THRU" CONTAINMENT AND FORMWORK

NOTES:

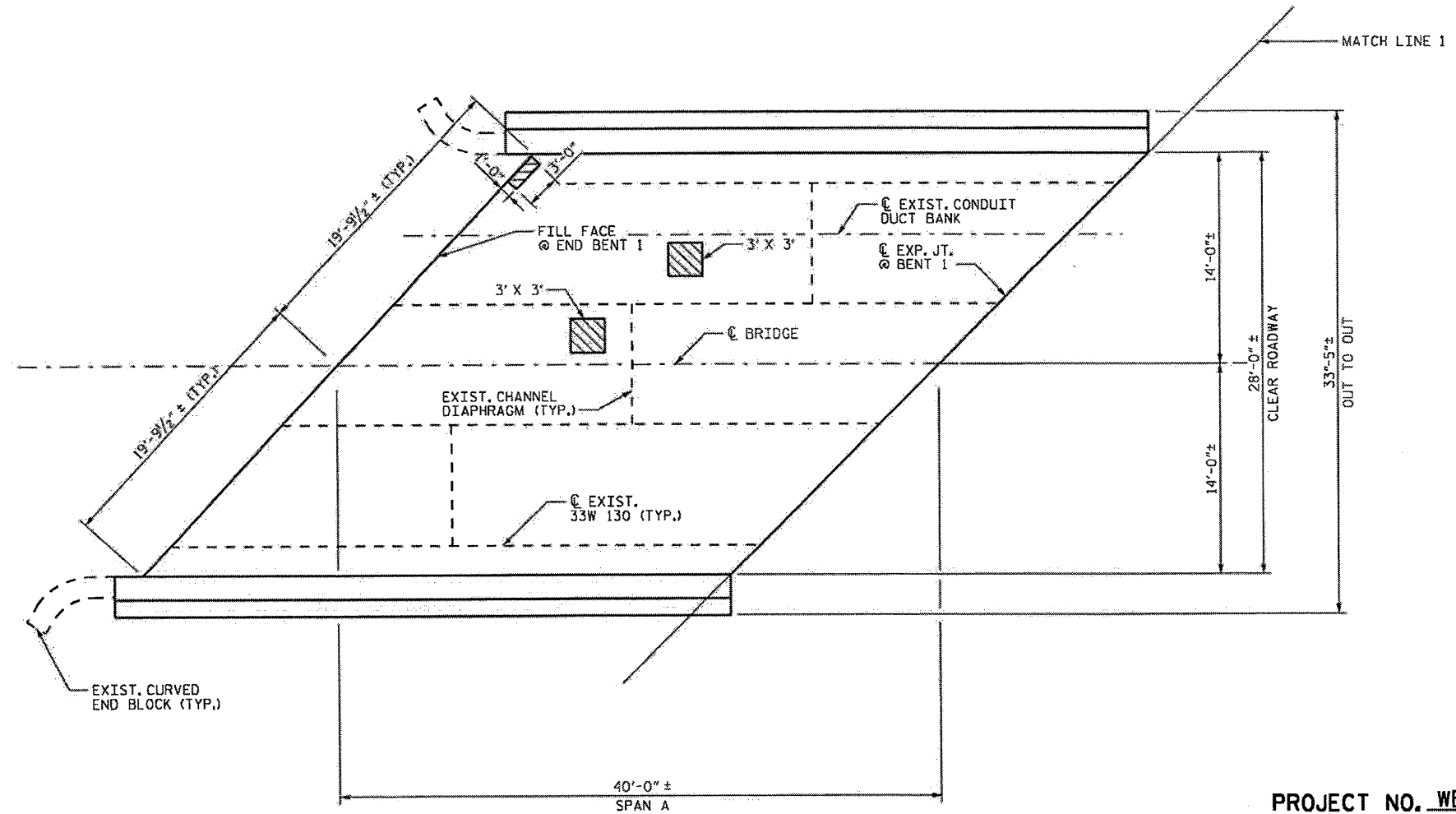
CONTRACTOR SHALL FURNISH FORMWORK TO SUPPORT SLAB OVERHANG REGIONS WITH EXTENSIVE CLASS III SURFACE PREPARATION.

COSTS FOR INSTALLING AND REMOVING FORMWORK SHALL BE INCIDENTAL TO THE PRICE BID PER SQ. YD. OF HYDRO-DEMOLITION.

CLASS II AND CLASS III SURFACE PREPARATION SHOWN IS REPRESENTATIVE AND DOES NOT REFLECT ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED @ THE PROJECT SITE.

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 SPAN A - DECK REPAIRS

NOTE: EXIST. CONC. BARRIER AND POSTS ARE NOT SHOWN FOR CLARITY.

- CLASS II SURFACE PREPARATION
- CLASS III SURFACE PREPARATION

L' X W' = LENGTH OF AREA PARALLEL TO C BRIDGE X WIDTH OF AREA PERPENDICULAR TO C BRIDGE.

PROJECT NO. WBS 17BP.11.H.3
CALDWELL COUNTY
 STATION: _____

Stantec Consulting Services Inc.
 801 Jones Franklin Road
 Suite 300
 Raleigh, NC 27609
 Tel. (919) 851-8666
 Fax. (919) 851-7024
 www.stantec.com
 License No. F-0972

DRAWN BY: B. C. MACYOWSKY DATE: 12-15-11
 CHECKED BY: J. T. KELVINGTON DATE: 12-15-11

Joseph Kelvington
 12/15/11

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

**DECK REPAIR DETAILS
 SPAN A**

DECK REHAB. FOR BRIDGE NO. 8

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

WBS 17BP.11.H.3 Caldwell & Wilkes Co. Caldwell & Wilkes Co. Drawings, BRB... RepairPlanA.dgn 5/13/2012 10:40:05 AM jaejie

#B5 17BP.11.H.3 Caldwell & Wilkes Co\caldwell\Bridges & Drawing\BPE...RepairPlanB.dgn 5/30/2012 10:40:07 AM igelle

NOTES:

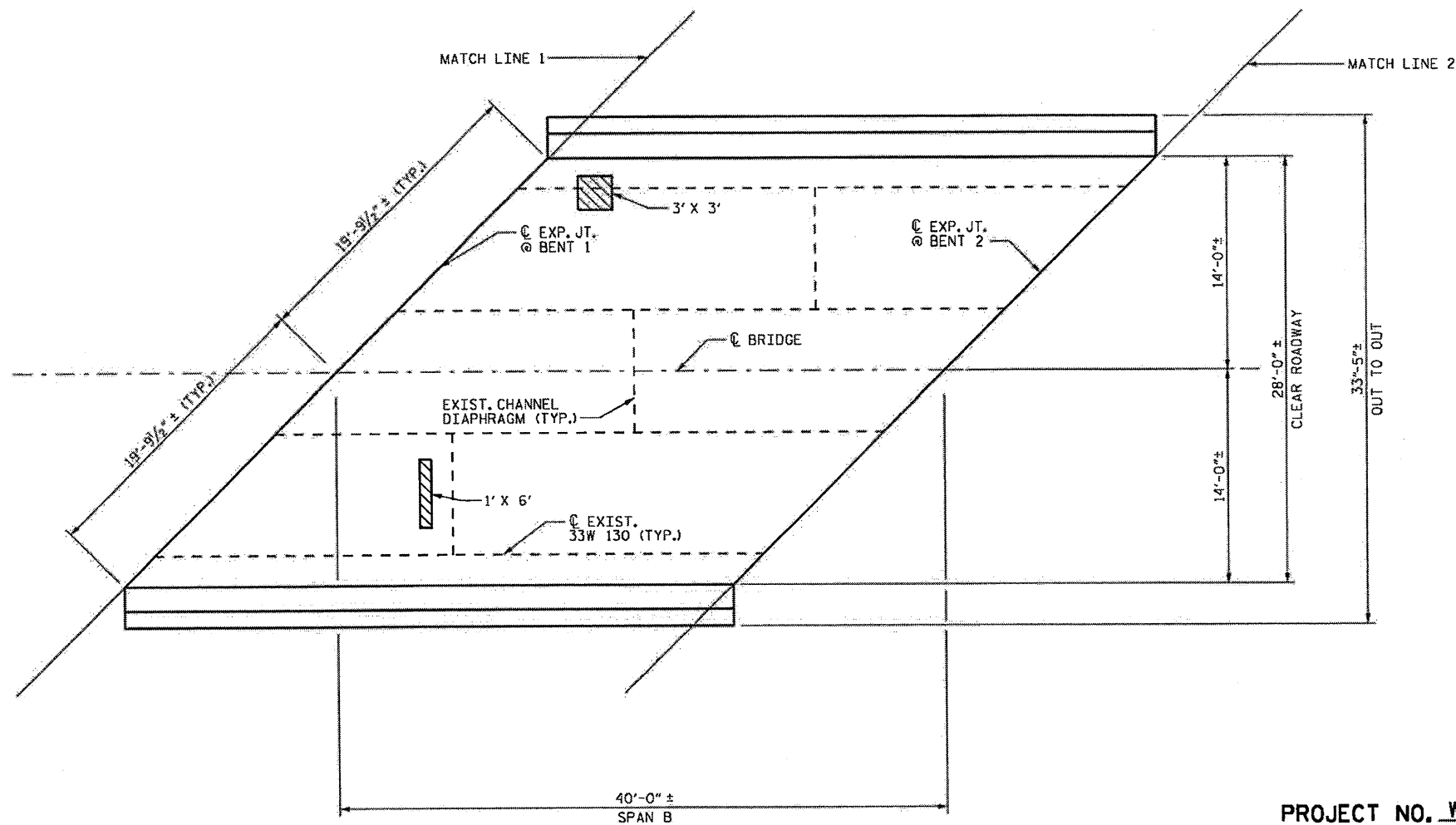
CONTRACTOR SHALL FURNISH FORMWORK TO SUPPORT SLAB OVERHANG REGIONS WITH EXTENSIVE CLASS III SURFACE PREPARATION.

COSTS FOR INSTALLING AND REMOVING FORMWORK SHALL BE INCIDENTAL TO THE PRICE BID PER SQ. YD. OF HYDRO-DEMOLITION.

CLASS II AND CLASS III SURFACE PREPARATION SHOWN IS REPRESENTATIVE AND DOES NOT REFLECT ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED @ THE PROJECT SITE.

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.



- CLASS II SURFACE PREPARATION
- CLASS III SURFACE PREPARATION

L' X W' = LENGTH OF AREA PARALLEL TO © BRIDGE X WIDTH OF AREA PERPENDICULAR TO © BRIDGE.

PLAN OF SPAN B - DECK REPAIRS

NOTE: EXIST. CONC. BARRIER AND POSTS ARE NOT SHOWN FOR CLARITY.

PROJECT NO. WBS 17BP.11.H.3
CALDWELL COUNTY
 STATION: _____

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 Fax (919) 851-7024
 www.stantec.com
 License No. F-0672

DRAWN BY : B. C. MACYOWSKY DATE : 12-15-11
 CHECKED BY : J. T. KELVINGTON DATE : 12-15-11

Joseph Kelvington

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

DECK REPAIR DETAILS
 SPAN B

DECK REHAB. FOR BRIDGE NO. 8

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

WBS 17BP.11.H.3 Caldwell & Wilkes Co. Schoolwall Bridge & Drawing: 17BP.11.H.3 - Repair Plan C.dgn 5/30/2012 10:40:00 AM jgelle

NOTES:

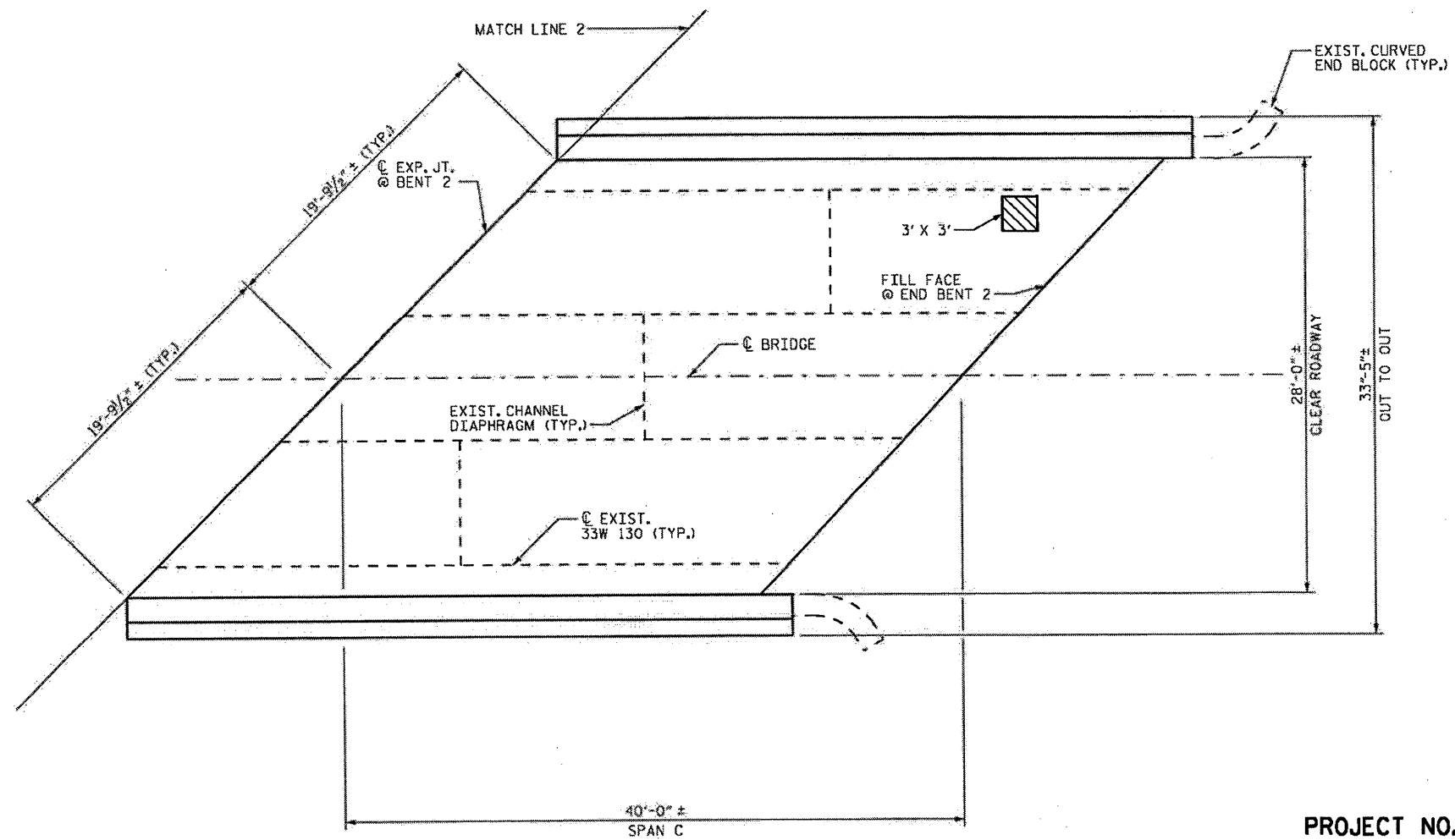
CONTRACTOR SHALL FURNISH FORMWORK TO SUPPORT SLAB OVERHANG REGIONS WITH EXTENSIVE CLASS III SURFACE PREPARATION.

COSTS FOR INSTALLING AND REMOVING FORMWORK SHALL BE INCIDENTAL TO THE PRICE BID PER SQ. YD. OF HYDRO-DEMOLITION.

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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.



- CLASS II SURFACE PREPARATION
- CLASS III SURFACE PREPARATION

L' x W' = LENGTH OF AREA PARALLEL TO @ BRIDGE X WIDTH OF AREA PERPENDICULAR TO @ BRIDGE.

PLAN OF SPAN C - DECK REPAIRS

NOTE: EXIST. CONC. BARRIER AND POSTS ARE NOT SHOWN FOR CLARITY.

PROJECT NO. WBS 17BP.11.H.3
CALDWELL COUNTY
 STATION: _____

Joseph A. Kelvington
 12/15/11
 13406
 ENGINEER

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

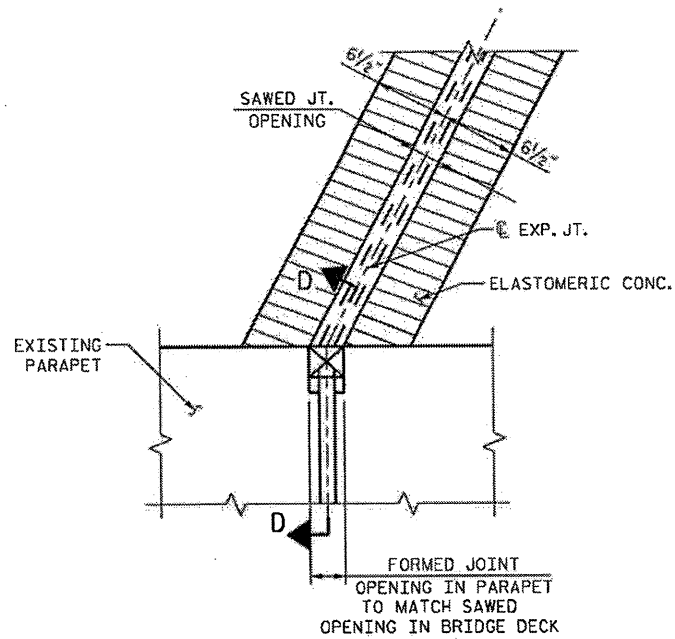
**DECK REPAIR DETAILS
 SPAN C**

DECK REHAB. FOR BRIDGE NO. 8

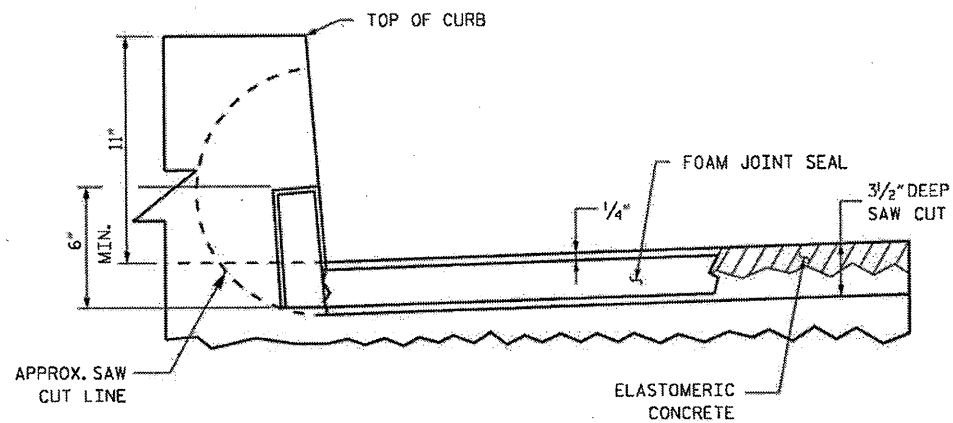
REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-6
1			3			TOTAL SHEETS
2			4			28

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DRAWN BY: B. C. MACYOWSKY DATE: 12-15-11
 CHECKED BY: J. T. KELVINGTON DATE: 12-15-11



PARTIAL PLAN @ JOINT
(TYP. @ INTERIOR BENTS)

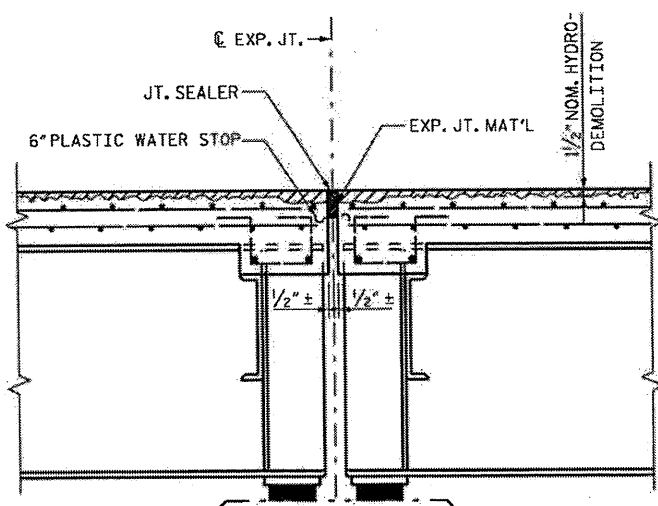


SECTION D-D

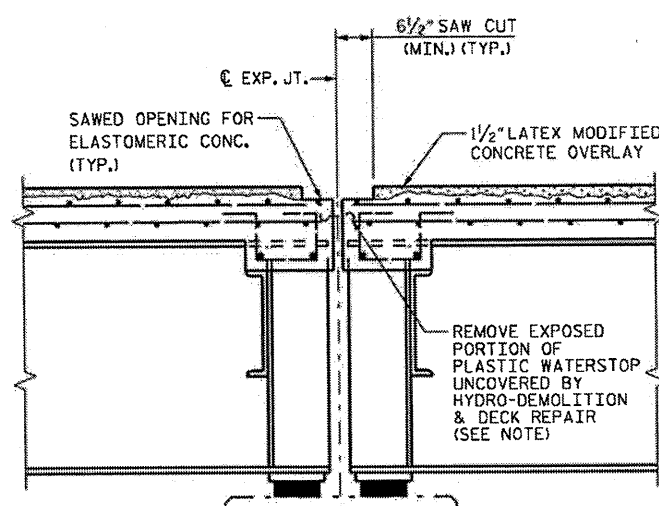
CONTRACTOR SHALL EXERCISE CARE TO AVOID CUTTING OR DAMAGING EXISTING REINF. STEEL.

ELASTOMERIC CONCRETE	
LOCATION	QTY
BENT 1	5.0 C.F.
BENT 2	5.0 C.F.

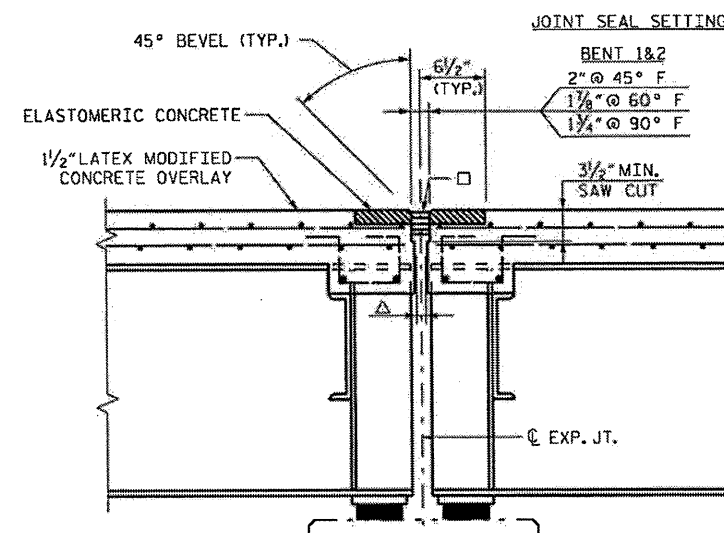
TOTAL ELASTOMERIC CONC. = 10.0 C.F.
TOTAL ELASTOMERIC CONC. = 0.40 C.Y.



SECTION B-B
(CONCRETE REMOVAL AT EXISTING JOINT)



SECTION B-B
(LATEX MOD. CONC. OVERLAY AND CONCRETE REMOVAL FOR ELASTOMERIC CONCRETE)



SECTION B-B
(PLACEMENT OF ELASTOMERIC CONCRETE AND SAW CUT FOR FOAM JOINT SEAL)

- USE 2.8125" X 2.50" UNCOMPRESSED FOAM JT. SEAL MATERIAL
- △ 1" EXISTING JOINT OPENING

PROJECT NO. WBS 17BP.11.H.3
CALDWELL COUNTY
STATION: _____

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
EXPANSION JOINT DETAILS
DECK REHAB. FOR BRIDGE NO. 8

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

S-7
TOTAL SHEETS
28

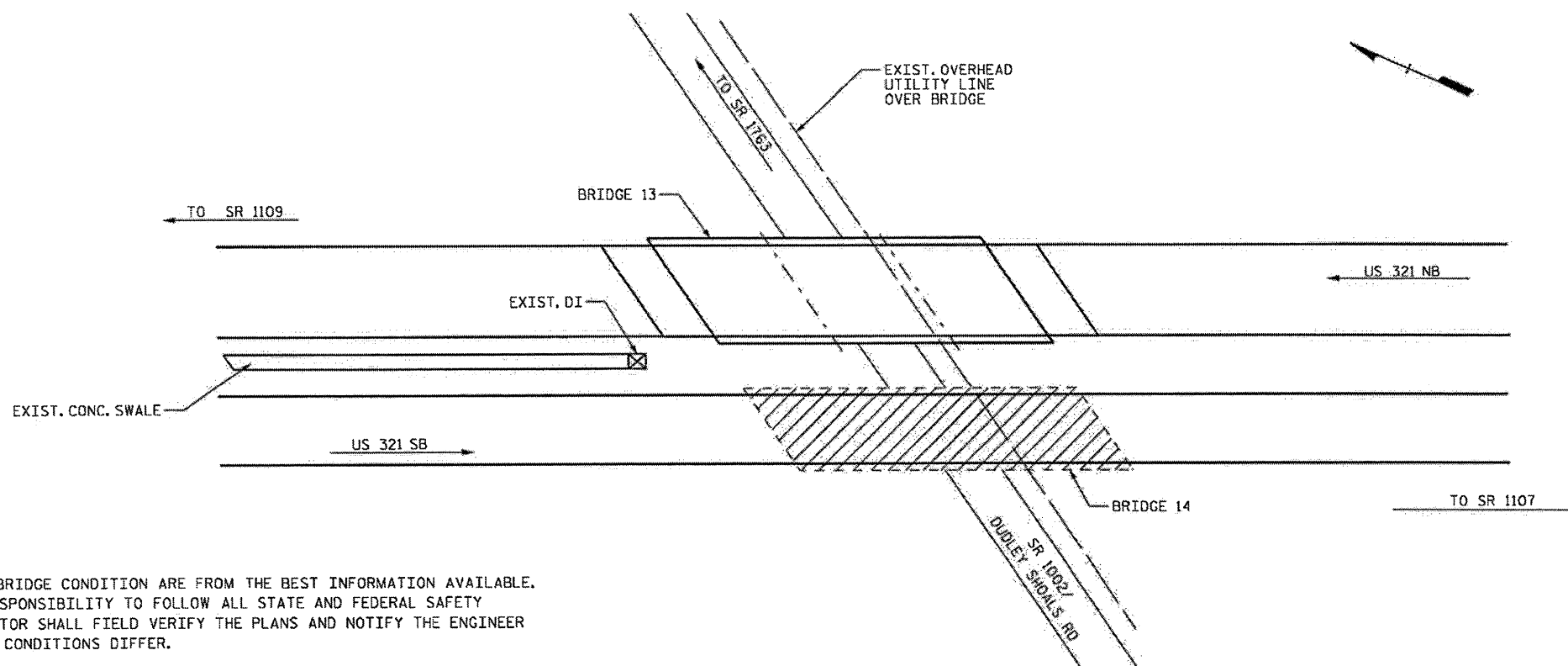
J. T. Kelvington
6/20/12
Professional Engineer Seal
STATE OF NORTH CAROLINA
J. T. KELVINGTON
13406

5/30/2012 04:02:22 AM jgella
 C:\Users\jgella\Documents\Projects\17BP.11.H.3\17BP.11.H.3_Caldwell & Wilkes Co\17BP.11.H.3_Bridge Deck Rehab\17BP.11.H.3_Bridge Deck Rehab.dgn

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DRAWN BY: B. C. MACYOWSKY DATE: 12-15-11
CHECKED BY: J. T. KELVINGTON DATE: 12-15-11

* FROM BEST AVAILABLE INFORMATION.
NOTE: RETAIN ALL EXIST. REINF. STEEL. CLEAN AND REPAIR AS REQ'D.
ALL EXPOSED EXISTING JOINT SEAL MATERIALS ARE TO BE COMPLETELY REMOVED.



NOTES:

EXISTING DIMENSIONS AND BRIDGE CONDITION ARE FROM THE BEST INFORMATION AVAILABLE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL STATE AND FEDERAL SAFETY REQUIREMENTS. THE CONTRACTOR SHALL FIELD VERIFY THE PLANS AND NOTIFY THE ENGINEER IF ACTUAL DIMENSIONS AND CONDITIONS DIFFER.

ROADWAY SCARIFICATION IS INCLUDED TO ENSURE A SMOOTH TRANSITION ONTO THE BRIDGE FLOOR. DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL SCARIFY AS REQUIRED TO PROVIDE A SMOOTH TRANSITION TO THE ROADWAY AT BOTH ENDS OF THE BRIDGE.

FOR FOAM JOINT SEALS, SEE SPECIAL PROVISIONS.

FOR ELASTOMERIC CONCRETE, SEE SPECIAL PROVISIONS.


FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

BRIDGE 13 ON US 321 NB

LOCATION: BRIDGE 130013, US 321 NBL ACROSS SR 1002
125 FT. SOUTHWEST OF JUNCTION WITH SR 1763

 FOR BRIDGE 14, US 321 SBL SEE SHTS. S-17 THRU S-24.

TOTAL BILL OF MATERIAL

INCIDENTAL MILLING	SCARIFYING BRIDGE DECK	CLASS I* SURFACE PREPARATION	CLASS II* SURFACE PREPARATION	CLASS III* SURFACE PREPARATION	HYDRO-DEMOLITION OF BRIDGE DECK	CLASS AA* CONCRETE	LATEX MODIFIED CONCRETE OVERLAY- VERY EARLY STRENGTH	PLACING & FINISHING LATEX MODIFIED CONCRETE OVERLAY- VERY EARLY STRENGTH	FOAM JOINT SEALS	GROOVING BRIDGE FLOORS	ASPHALT CONC. SURF. COURSE TYPE S9.5C
SO.YDS.	SO.YDS.	SO.YDS.	SO.YDS.	SO.YDS.	SO.YDS.	CU.YDS.	CU.YDS.	SO.YDS.	LUMP SUM	SO.FT.	TON
566.0	751.2	0	10.5	0	751.2	0	35.8	751.2	LUMP SUM	5,895	45

* QUANTITIES ARE ESTIMATES FROM BEST AVAILABLE DATA, AND SHOULD BE CONSIDERED FOR INFORMATION PURPOSES ONLY. IF ANY CLASS III LOCATIONS ARE ENCOUNTERED PRIOR TO OR DURING HYDRO-DEMOLITION, SEE TYP. "BLOW THRU" CONTAINMENT AND FORMWORK DETAIL. NO SEPARATE MEASUREMENT OR PAYMENT FOR THESE ITEMS WILL BE MADE. ALL COSTS FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR HYDRO-DEMOLITION.

PROJECT NO. WBS 17BP.11.H.3

CALDWELL COUNTY

STATION: _____


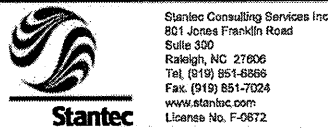
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

LOCATION SKETCH
AND TOTAL
BILL OF MATERIAL

DECK REHAB. FOR BRIDGE NO. 13

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	S-8
1			3			TOTAL SHEETS 28
2			4			

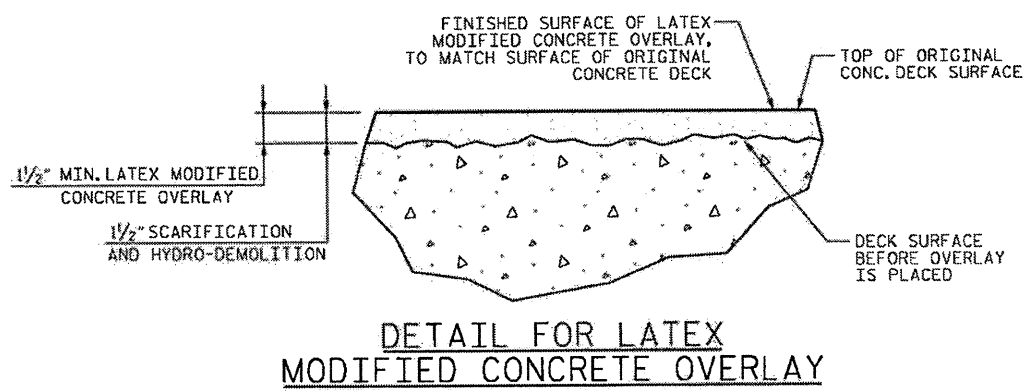
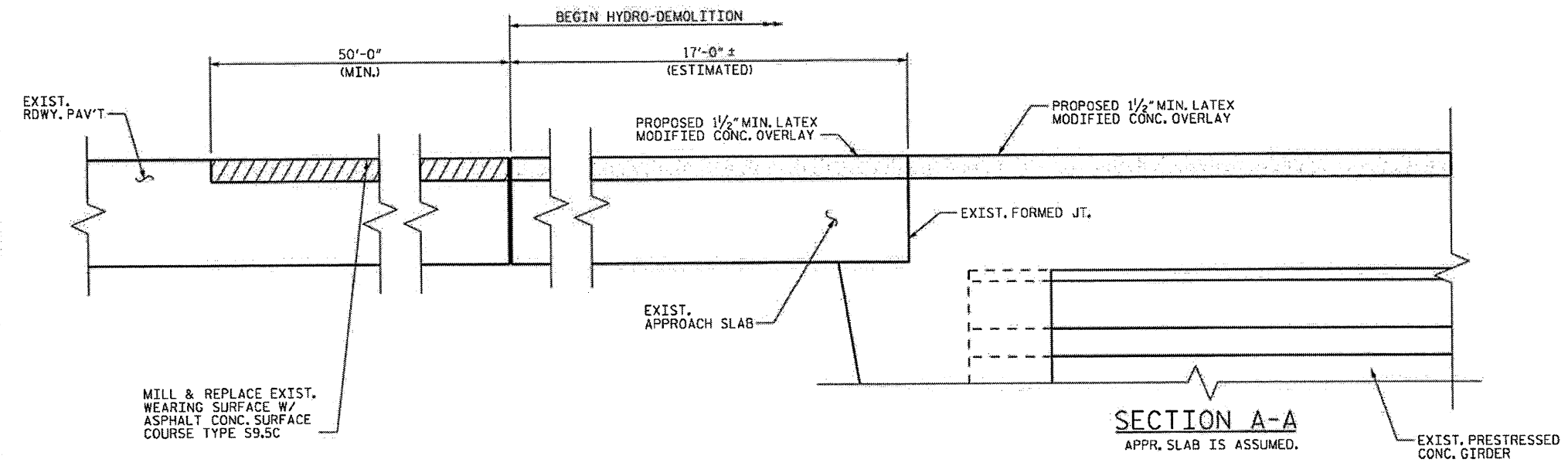
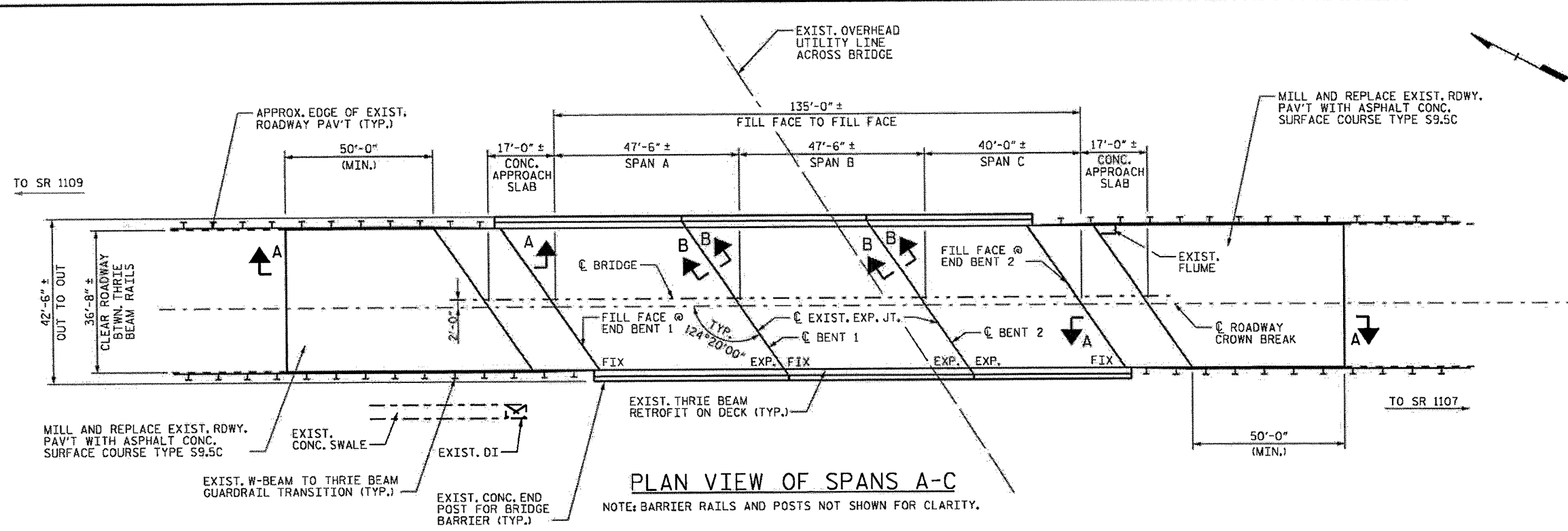
Joseph Kelvington
12/15/11

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DRAWN BY : B. C. MACYOWSKY DATE : 12-15-11
CHECKED BY : J. T. KELVINGTON DATE : 12-15-11

WBS 17BP.11.H.3 Caldwell & Wilkes Co. Caldwell Bridge 13 Drawing ABP10003.L.S.BOM.dgn 5/20/2012 10:46:16 AM ipelle



NOTES:

EXISTING JOINTS AND DECK DRAINS SHALL BE SEALED PRIOR TO BEGINNING REPAIR OF BRIDGE DECKS WITH LATEX MODIFIED CONCRETE. 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 THE DECK. SEE DETAIL, SHT. S-11.

LATEX MODIFIED CONCRETE SHALL BE LATEX MODIFIED CONCRETE - VERY EARLY STRENGTH.

FOR LATEX MODIFIED CONCRETE - VERY EARLY STRENGTH, SEE SPECIAL PROVISIONS.

FOR SECTION B-B, SEE SHT. S-14.

PROJECT NO. WBS 17BP.11.H.3
CALDWELL COUNTY
 STATION: _____

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

PLAN OF BRIDGE

DECK REHAB. FOR BRIDGE NO. 13

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	S-9
1			3			TOTAL SHEETS
2			4			28

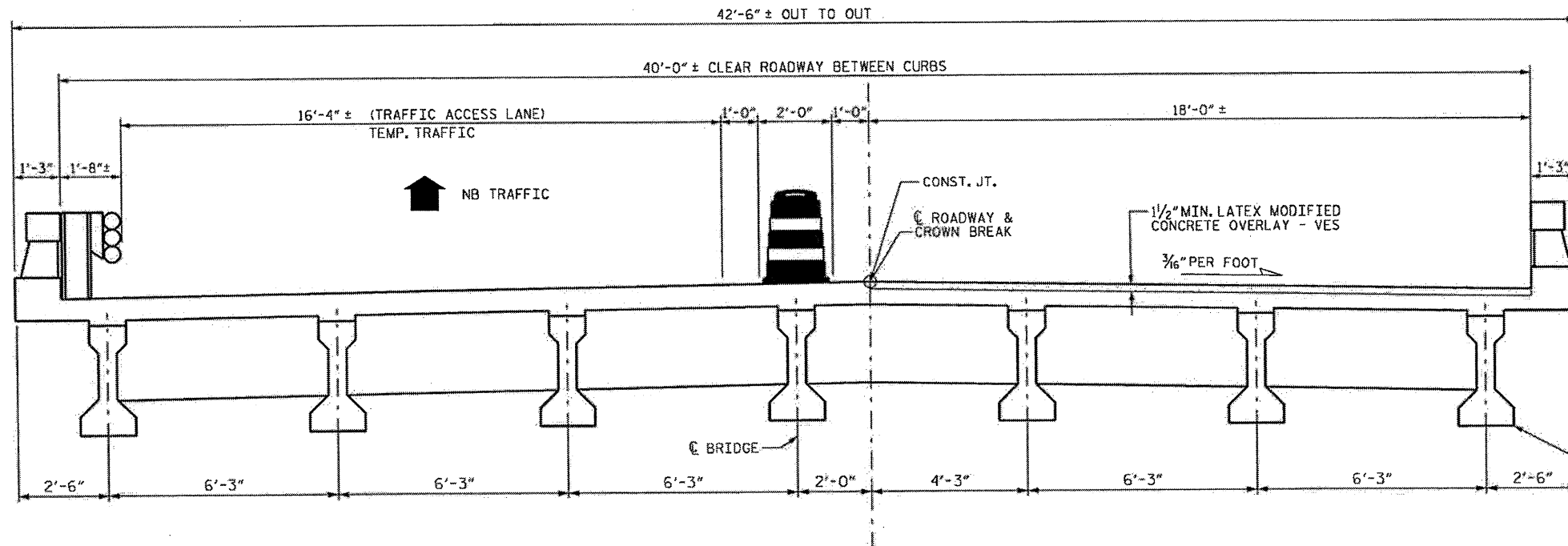
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DRAWN BY: B. C. MACYOWSKY DATE: 12-15-11
 CHECKED BY: J. T. KELVINGTON DATE: 12-15-11

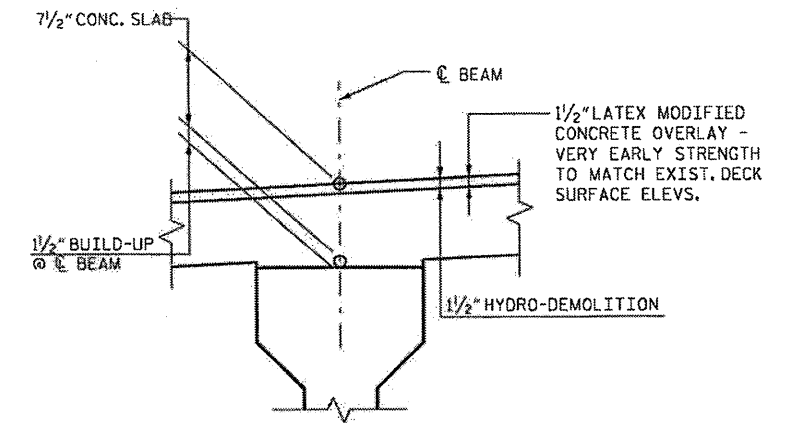
J. T. Kelvington
 12/15/11
 13406
 ENGINEER

35:17BP.11.H.3_Caldwell & Wilkes Co_Caldwell\3-NB-ridge_13\ADrawing\BP130013_DeckPlans.dgn 5/30/2012 10:40:20 AM Jgelle



TYPICAL SECTION

SPANS A, B, C
NOTE: ALL DIMENSIONS SHOWN ARE APPROXIMATE.



EXIST. SLAB DETAIL

TYPE II PRESTRESSED
CONCRETE GIRDER (TYP.)

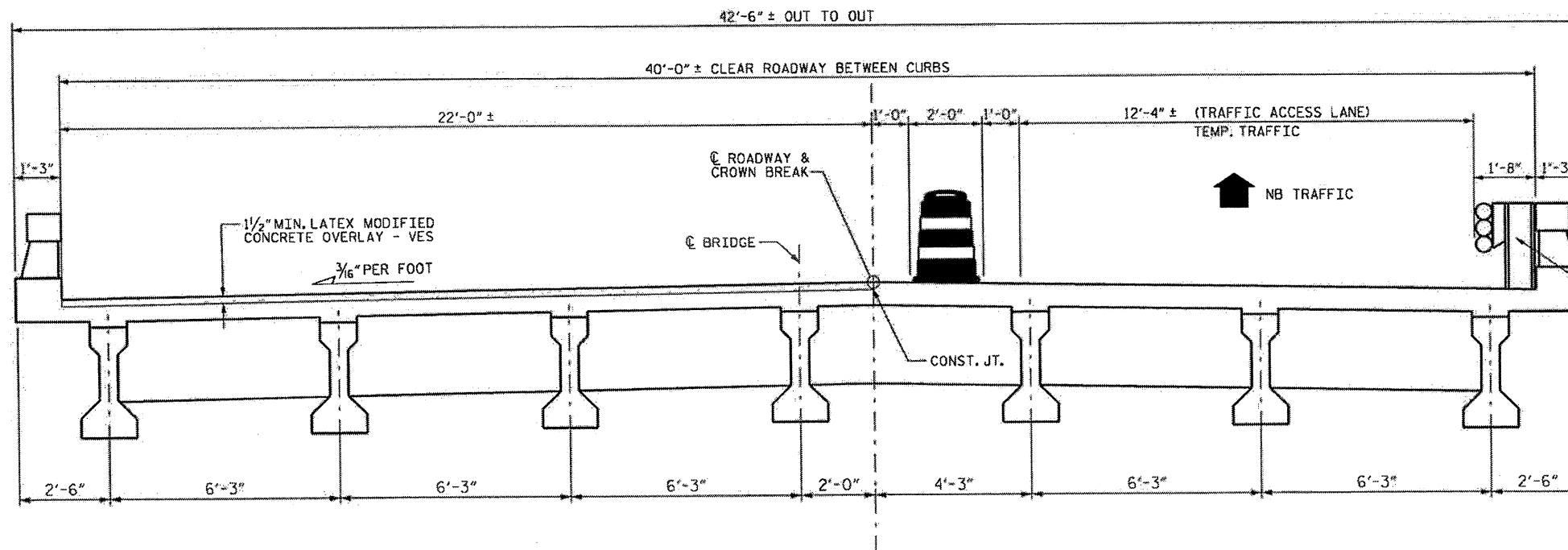
NOTES:

VES DENOTES VERY EARLY STRENGTH.

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

FOR TRAFFIC CONTROL AND CONSTRUCTION PHASING, SEE TRANSPORTATION MANAGEMENT PLANS.

*NO SEPARATE PAYMENT FOR THIS WORK WILL BE MADE.



TYPICAL SECTION

SPANS A, B, C
NOTE: ALL DIMENSIONS SHOWN ARE APPROXIMATE.

EXIST. THRIE BEAM RETROFIT TO BE REMOVED, STOCKPILED AND REPLACED ONLY AS NECESSARY FOR DECK REHABILITATION (TYP.)*

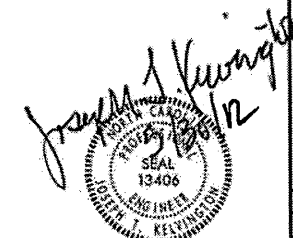
PROJECT NO. WBS 17BP.11.H.3

CALDWELL COUNTY

STATION: _____



DRAWN BY: B. C. MACYOWSKY DATE: 12-15-11
CHECKED BY: J. T. KELVINGTON DATE: 12-15-11



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

TYPICAL SECTION

DECK REHAB. FOR BRIDGE NO. 13

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	S-10
1			3			TOTAL SHEETS: 28
2			4			

5/30/2012 10:40:23 AM jgella BS 17BP.11.H.3 Caldwell & Wilkes Co. Caldwell 13 Bridge 13 Drawing 17BP.11.H.3 TYP. Section.dgn

NOTES:

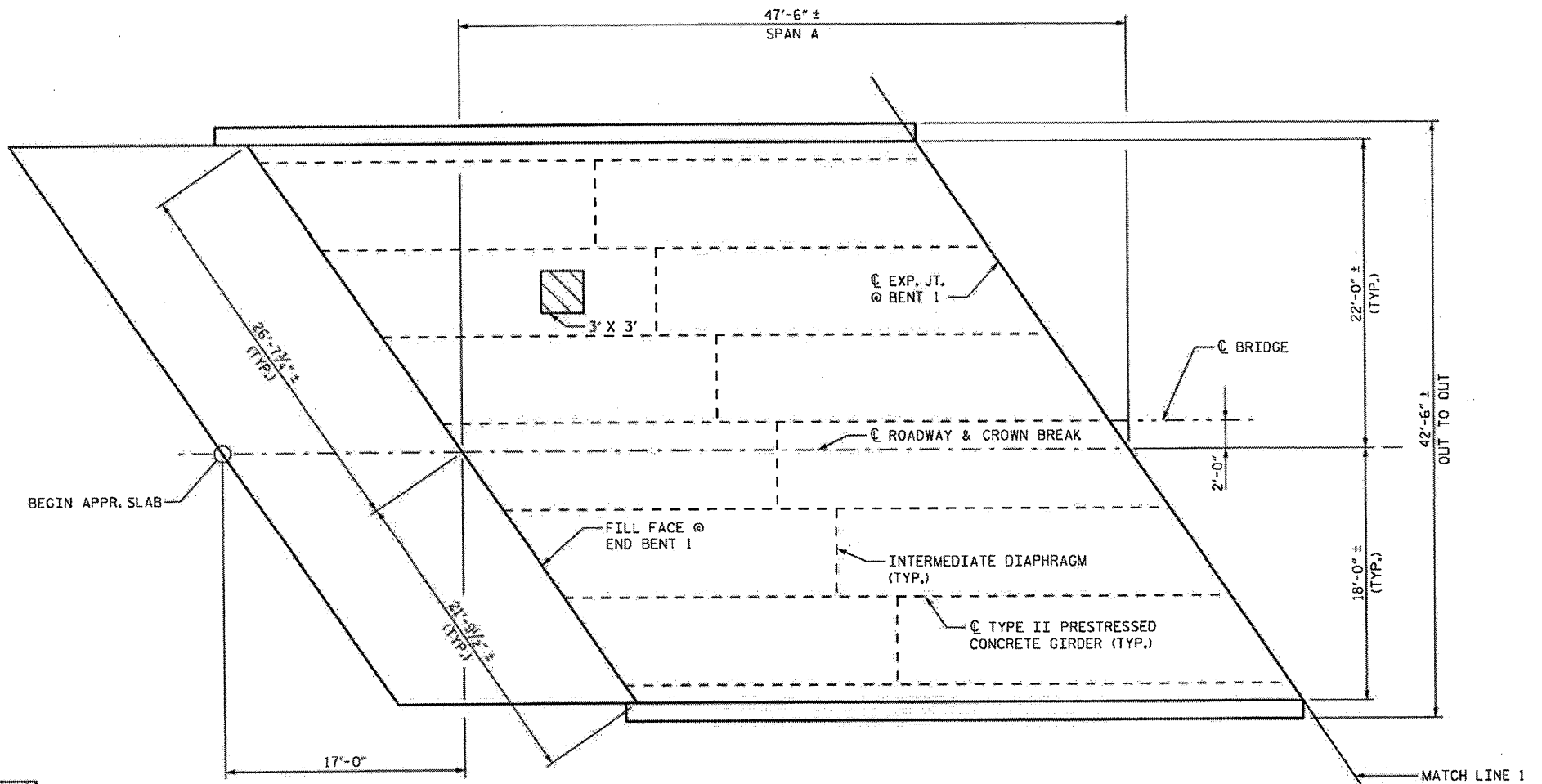
CONTRACTOR SHALL FURNISH FORMWORK TO SUPPORT SLAB OVERHANG REGIONS WITH EXTENSIVE CLASS III SURFACE PREPARATION.

COSTS FOR INSTALLING AND REMOVING FORMWORK SHALL BE INCIDENTAL TO THE PRICE BID PER SQ. YD. OF HYDRO-DEMOLITION.

CLASS II AND CLASS III SURFACE PREPARATION SHOWN IS REPRESENTATIVE AND DOES NOT REFLECT ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED @ THE PROJECT SITE.

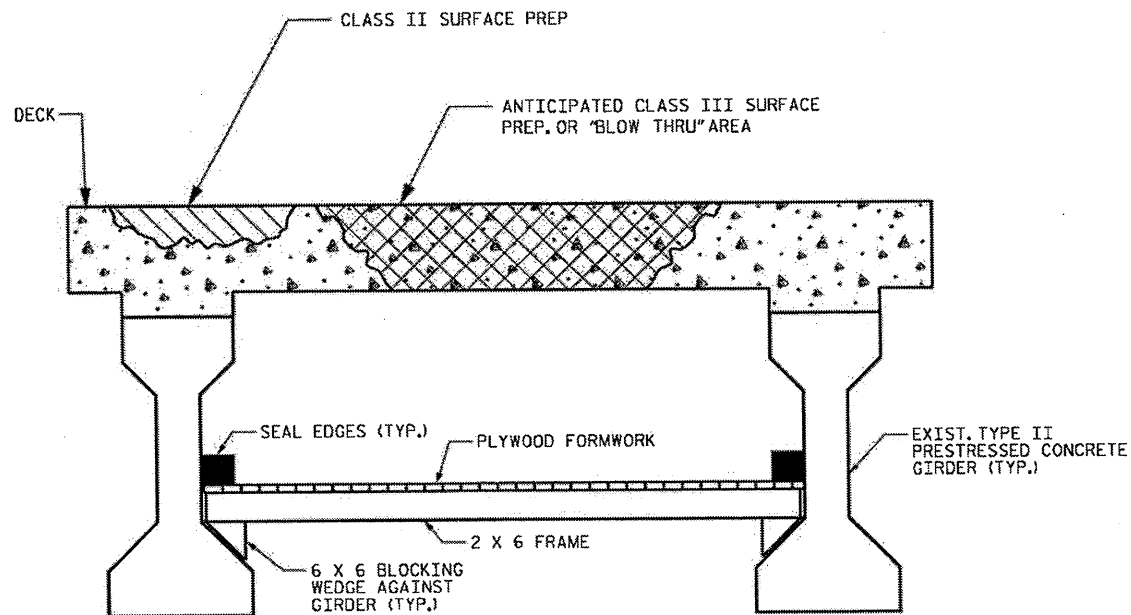
A METHOD TO CAPTURE WATER AND DEBRIS FROM BLOW THRU DURING HYDRO-DEMOLITION SHALL BE INSTALLED IN AREAS INDICATED AS CLASS III SURFACE PREPARATION.

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





PLAN OF SPAN A - DECK REPAIRS

NOTE: EXIST. CONC. BARRIER AND POSTS ARE NOT SHOWN FOR CLARITY.




TYP. "BLOW THRU" CONTAINMENT AND FORMWORK

-  CLASS II SURFACE PREPARATION
-  CLASS III SURFACE PREPARATION

L X W = LENGTH OF AREA PARALLEL TO C BRIDGE X WIDTH OF AREA PERPENDICULAR TO C BRIDGE.

PROJECT NO. WBS 17BP.11.H.3
CALDWELL COUNTY
 STATION: _____

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
DECK REPAIR DETAILS					
DECK REHAB. FOR BRIDGE NO. 13					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
					SHEET NO. S-11
					TOTAL SHEETS 28

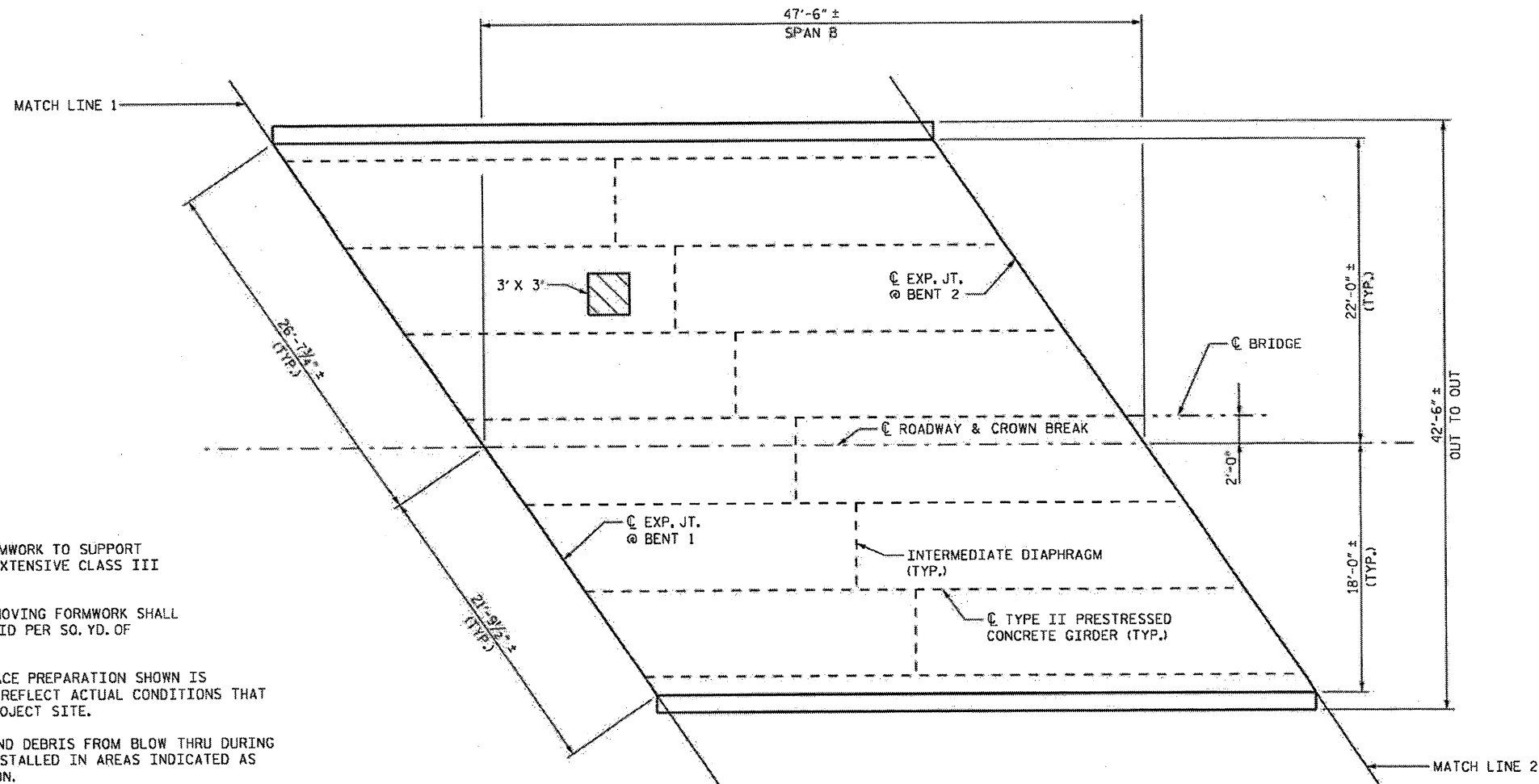


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DRAWN BY: B. C. MACYOWSKY DATE: 12-15-11
 CHECKED BY: J. T. KELVINGTON DATE: 12-15-11

Joseph Kelvington
 PROFESSIONAL ENGINEER
 STATE OF NORTH CAROLINA
 SEAL 13406
 12/15/11

17BP.11.H.3 Caldwell & Wilkes Co. Caldwell, ILS Dr. Fidge 13A Drawing B1730013 Repair Plan.dgn 5/30/2012 10:40:25 AM Joelle



NOTES:

CONTRACTOR SHALL FURNISH FORMWORK TO SUPPORT SLAB OVERHANG REGIONS WITH EXTENSIVE CLASS III SURFACE PREPARATION.

COSTS FOR INSTALLING AND REMOVING FORMWORK SHALL BE INCIDENTAL TO THE PRICE BID PER SQ. YD. OF HYDRO-DEMOLITION.

CLASS II AND CLASS III SURFACE PREPARATION SHOWN IS REPRESENTATIVE AND DOES NOT REFLECT ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED @ THE PROJECT SITE.

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 ALL PROPOSED FORMWORK FOR APPROVAL PRIOR TO BEGINNING WORK.

PLAN OF SPAN B - DECK REPAIRS

NOTE: EXIST. CONC. BARRIER AND POSTS ARE NOT SHOWN FOR CLARITY.

- CLASS II SURFACE PREPARATION
- CLASS III SURFACE PREPARATION

L X W = LENGTH OF AREA PARALLEL TO ϕ BRIDGE X WIDTH OF AREA PERPENDICULAR TO ϕ BRIDGE.

PROJECT NO. WBS 17BP.11.H.3
CALDWELL COUNTY
 STATION: _____

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

DECK REPAIR DETAILS

DECK REHAB. FOR BRIDGE NO. 13

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	5-12
1			3			TOTAL SHEETS
2			4			28

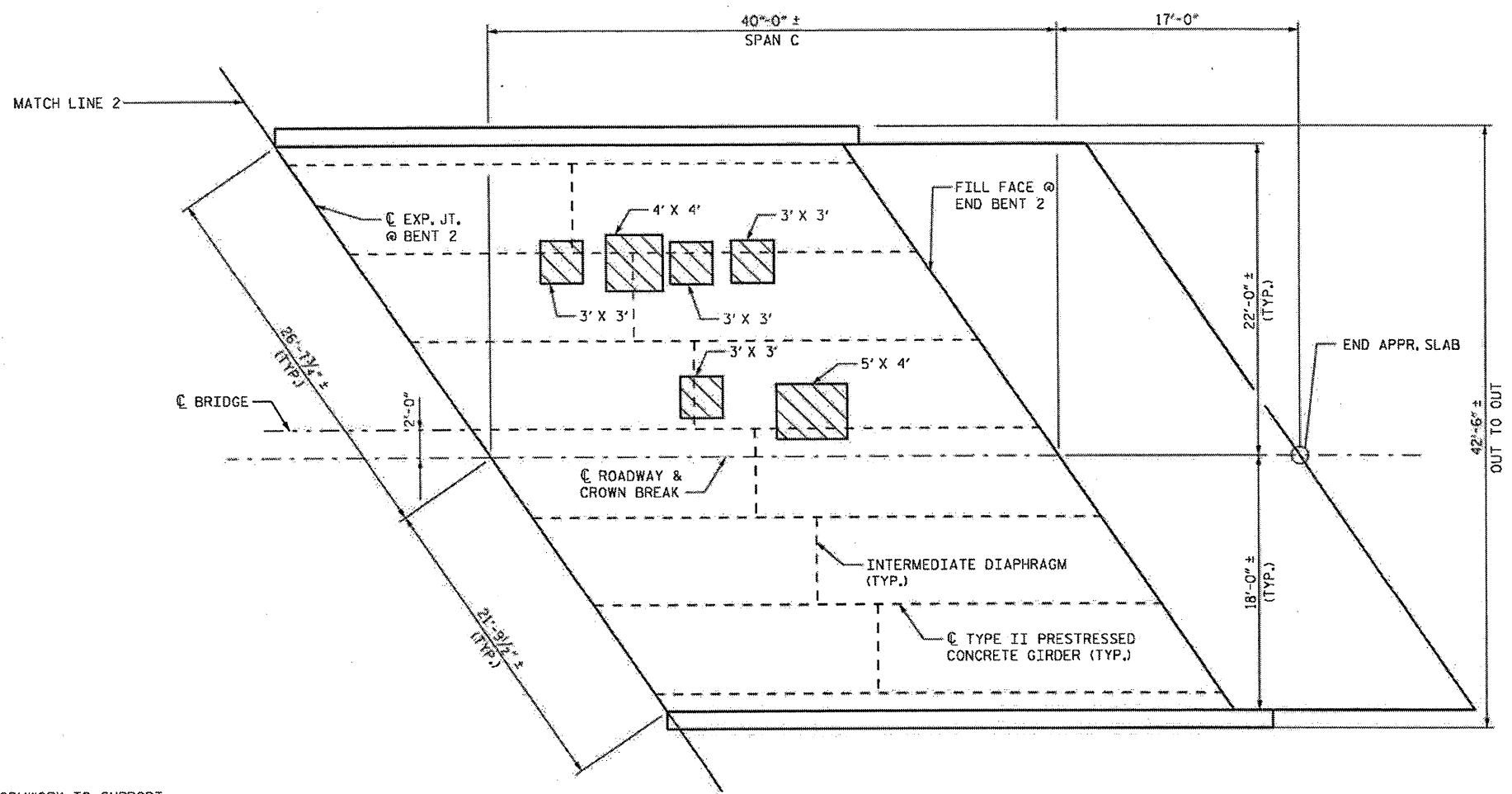
Joseph Kelvington
 12/15/11
 SEAL 13406
 ENGINEER

17BP.11.H.3 Caldwell & Wilkes Co Caldwell 13-Bridge 13-Dr-cwling-18110003-Repof-Plan2.dgn 5/30/2012 10:40:27 AM Jgelle



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DRAWN BY: B. C. MACYOWSKY DATE: 12-15-11
 CHECKED BY: J. T. KELVINGTON DATE: 12-15-11



NOTES:

CONTRACTOR SHALL FURNISH FORMWORK TO SUPPORT SLAB OVERHANG REGIONS WITH EXTENSIVE CLASS III SURFACE PREPARATION.

COSTS FOR INSTALLING AND REMOVING FORMWORK SHALL BE INCIDENTAL TO THE PRICE BID PER SQ. YD. OF HYDRO-DEMOLITION.

CLASS II AND CLASS III SURFACE PREPARATION SHOWN IS REPRESENTATIVE AND DOES NOT REFLECT ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED @ THE PROJECT SITE.

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 ALL PROPOSED FORMWORK FOR APPROVAL PRIOR TO BEGINNING WORK.

PLAN OF SPAN C - DECK REPAIRS

NOTE: EXIST. CONC. BARRIER AND POSTS ARE NOT SHOWN FOR CLARITY.

- CLASS II SURFACE PREPARATION
- CLASS III SURFACE PREPARATION

L X W = LENGTH OF AREA PARALLEL TO C BRIDGE X WIDTH OF AREA PERPENDICULAR TO C BRIDGE.

PROJECT NO. WBS 17BP.11.H.3
CALDWELL COUNTY
 STATION: _____

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

DECK REPAIR DETAILS

DECK REHAB. FOR BRIDGE NO. 13

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

TOTAL SHEETS 28

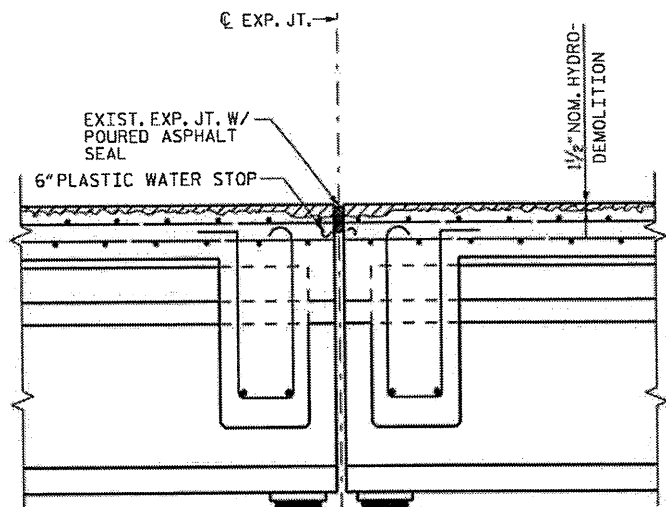
Joseph Kelvington

10/02/2012 5:30/2012 5/30/2012 I:\Drawings\BPI\B001_Repairs\Plan3.dgn
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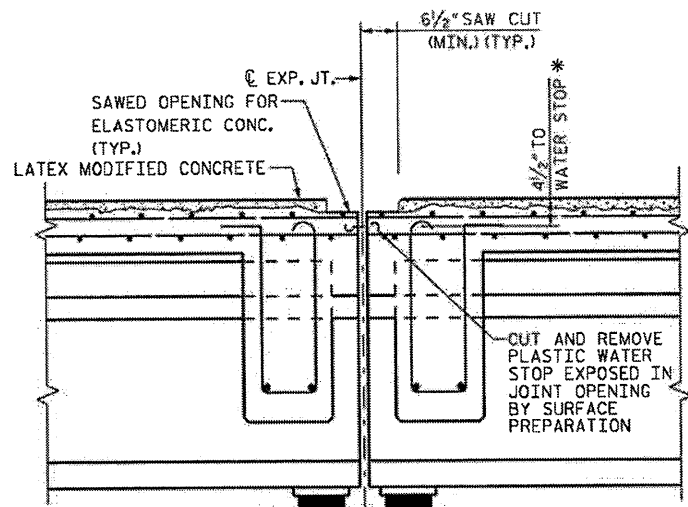
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 Fax: (919) 851-1224
 www.stantec.com
 License No. F-0672

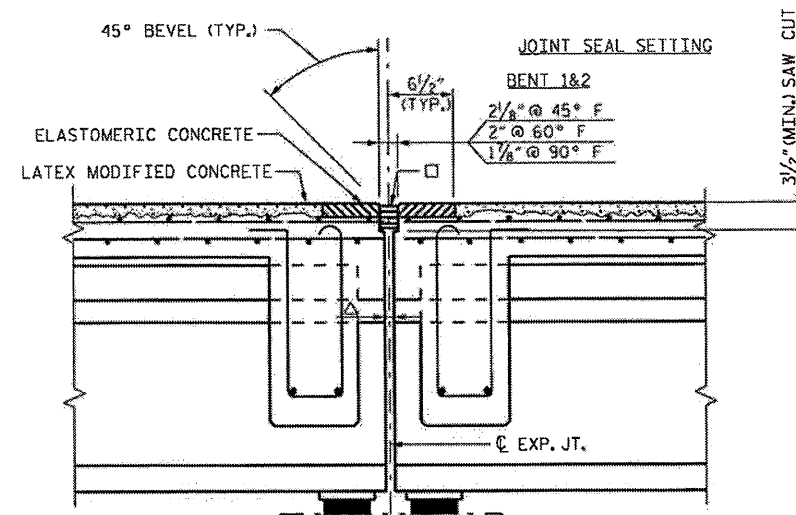
DRAWN BY: B. C. MACYOWSKY DATE: 12-15-11
 CHECKED BY: J. T. KELVINGTON DATE: 12-15-11



SECTION B-B
(CONCRETE REMOVAL AT EXISTING JOINT)



SECTION B-B
(LATEX MOD. CONC. OVERLAY AND CONCRETE REMOVAL FOR ELASTOMERIC CONCRETE)



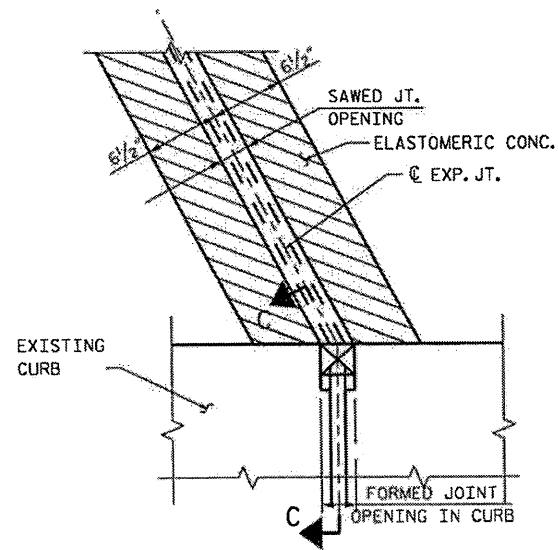
SECTION B-B
(PLACEMENT OF ELASTOMERIC CONCRETE AND SAW CUT FOR FOAM JOINT SEAL)

□ USE 2.8125" X 2.50" UNCOMPRESSED FOAM JT. SEAL MATERIAL AT BENT 1 AND BENT 2
△ 1" EXISTING JOINT OPENING

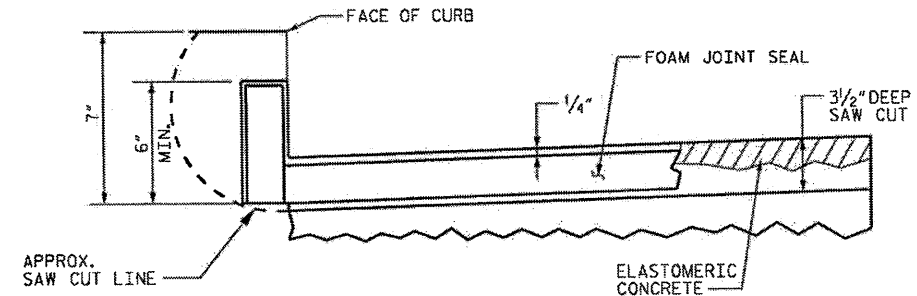
* FROM BEST AVAILABLE INFORMATION.
NOTE: RETAIN ALL EXIST. REINF. STEEL. CLEAN AND REPAIR AS REQ'D.
ALL EXPOSED EXISTING JOINT SEAL MATERIALS ARE TO BE COMPLETELY REMOVED.

ELASTOMERIC CONCRETE	
LOCATION	QTY
BENT 1	6.05 C.F.
BENT 2	6.05 C.F.

TOTAL ELASTOMERIC CONC. = 12.1 C.F.
TOTAL ELASTOMERIC CONC. = 0.4 C.Y.



PARTIAL PLAN @ JOINT
(TYP. @ BENTS 1 & 2)



SECTION F-F

CONTRACTOR SHALL EXERCISE CARE TO AVOID CUTTING OR DAMAGING EXISTING REINF. STEEL.

PROJECT NO. WBS 17BP.11.H.3
CALDWELL COUNTY
STATION: _____

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

INTERIOR BENT JOINT SEAL DETAILS

DECK REHAB. FOR BRIDGE NO. 13

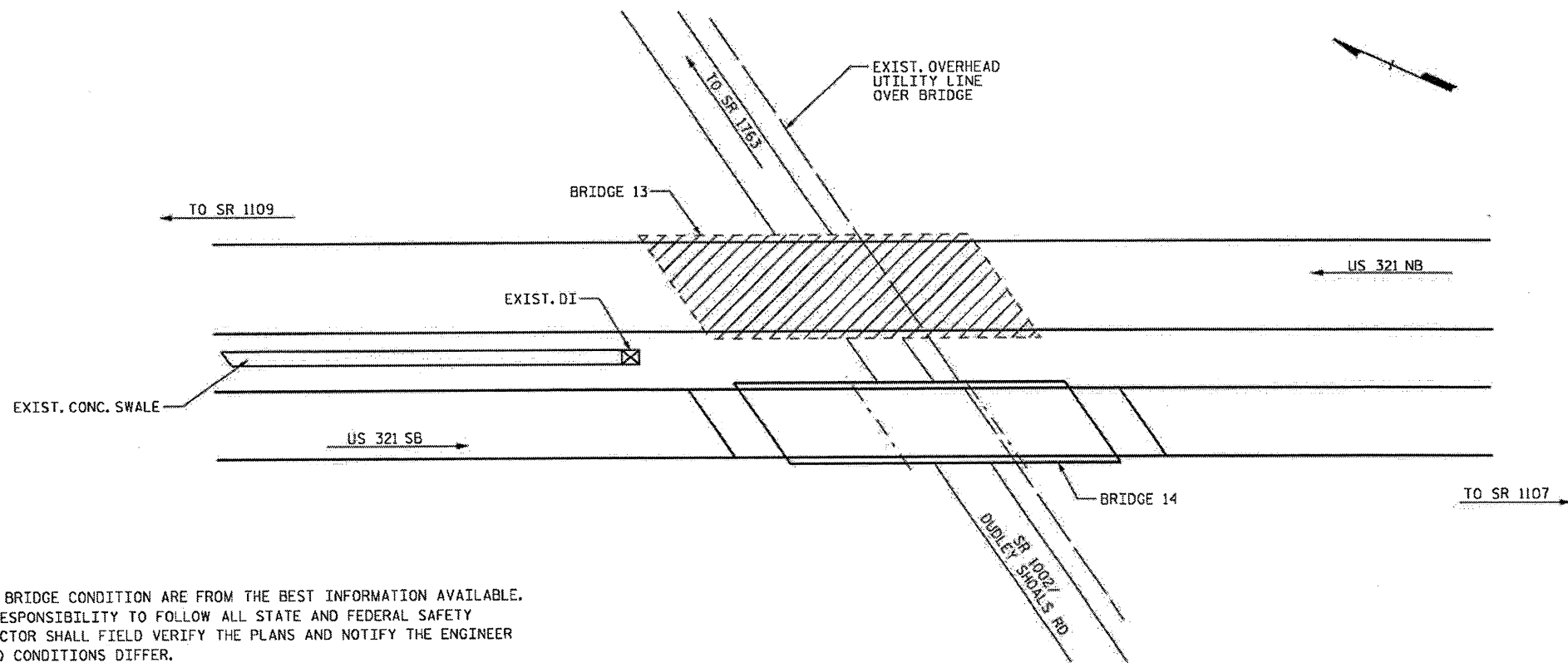
REVISIONS						SHEET NO. 5-14
NO.	BY	DATE	NO.	BY	DATE	
1			3			TOTAL SHEETS 28
2			4			

James Kelvington
Professional Engineer
No. 13406
State of North Carolina
Exp. 12/15/12

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DRAWN BY : B. C. MACYOWSKY DATE : 12-15-11
CHECKED BY : J. T. KELVINGTON DATE : 12-15-11

5/30/2012 10:40:31 AM jge@e
211\WBS 17BP.11.H.3 Caldwell & Wilkes Co\Caldwell\13\Bridges\13\Drawing\ABP13D03_Det2.dgn



NOTES:
 EXISTING DIMENSIONS AND BRIDGE CONDITION ARE FROM THE BEST INFORMATION AVAILABLE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL STATE AND FEDERAL SAFETY REQUIREMENTS. THE CONTRACTOR SHALL FIELD VERIFY THE PLANS AND NOTIFY THE ENGINEER IF ACTUAL DIMENSIONS AND CONDITIONS DIFFER.

ROADWAY SCARIFICATION IS INCLUDED TO ENSURE A SMOOTH TRANSITION ONTO THE BRIDGE FLOOR. DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL SCARIFY AS REQUIRED TO PROVIDE A SMOOTH TRANSITION TO THE ROADWAY AT BOTH ENDS OF THE BRIDGE.

FOR FOAM JOINT SEALS, SEE SPECIAL PROVISIONS.

FOR ELASTOMERIC CONCRETE, SEE SPECIAL PROVISIONS.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

BRIDGE 14 ON US 321 SB

LOCATION: BRIDGE 130014, US 321 SBL ACROSS SR 1002
 150 FT. SOUTHWEST OF JUNCTION WITH SR 1763



FOR BRIDGE 13, US 321 NBL SEE SHTS. S-9 THRU S-16.

TOTAL BILL OF MATERIAL

INCIDENTAL MILLING	SCARIFYING BRIDGE DECK	CLASS I * SURFACE PREPARATION	CLASS II * SURFACE PREPARATION	CLASS III * SURFACE PREPARATION	HYDRO-DEMOLITION OF BRIDGE DECK	CLASS AA * CONCRETE	LATEX MODIFIED CONCRETE OVERLAY- VERY EARLY STRENGTH	PLACING & FINISHING LATEX MODIFIED CONCRETE OVERLAY- VERY EARLY STRENGTH	FOAM JOINT SEALS	GROOVING BRIDGE FLOORS	ASPHALT CONC. SURF. COURSE TYPE S9.5C
SQ.YDS.	SQ.YDS.	SQ.YDS.	SQ.YDS.	SQ.YDS.	SQ.YDS.	CU.YDS.	CU.YDS.	SQ.YDS.	LUMP SUM	SQ.FT.	TON
370.7	525.8	0	9.6	0	525.8	0	39.5	525.8	LUMP SUM	3,983	30

* QUANTITIES ARE ESTIMATES FROM BEST AVAILABLE DATA, AND SHOULD BE CONSIDERED FOR INFORMATION PURPOSES ONLY. IF ANY CLASS III LOCATIONS ARE ENCOUNTERED PRIOR TO OR DURING HYDRO-DEMOLITION, SEE TYP. "BLOW THRU" CONTAINMENT AND FORMWORK DETAIL. NO SEPARATE MEASUREMENT OR PAYMENT FOR THESE ITEMS WILL BE MADE. ALL COSTS FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR HYDRO-DEMOLITION.

PROJECT NO. WBS 17BP.11.H.3

CALDWELL COUNTY

STATION: _____

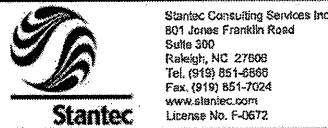
STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

LOCATION SKETCH
 AND TOTAL
 BILL OF MATERIAL

DECK REHAB. FOR BRIDGE NO. 14

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

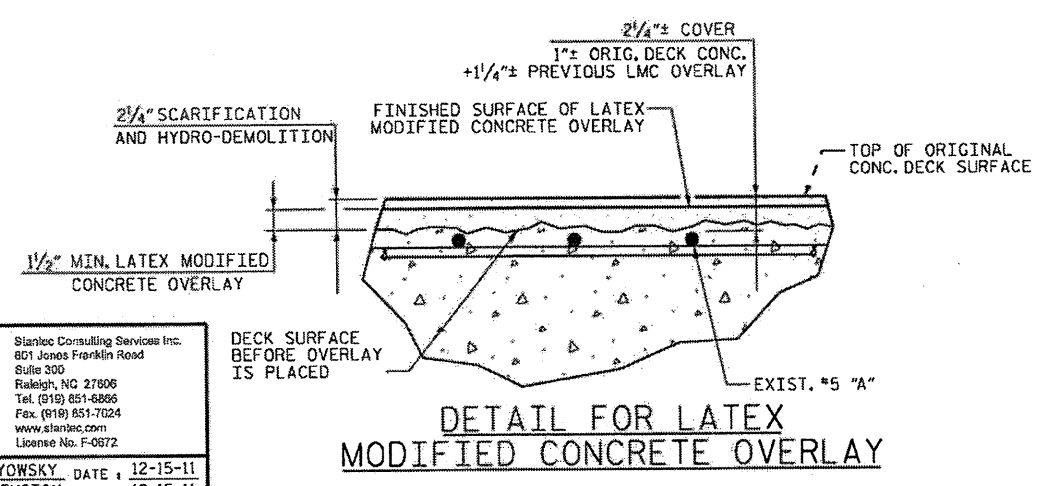
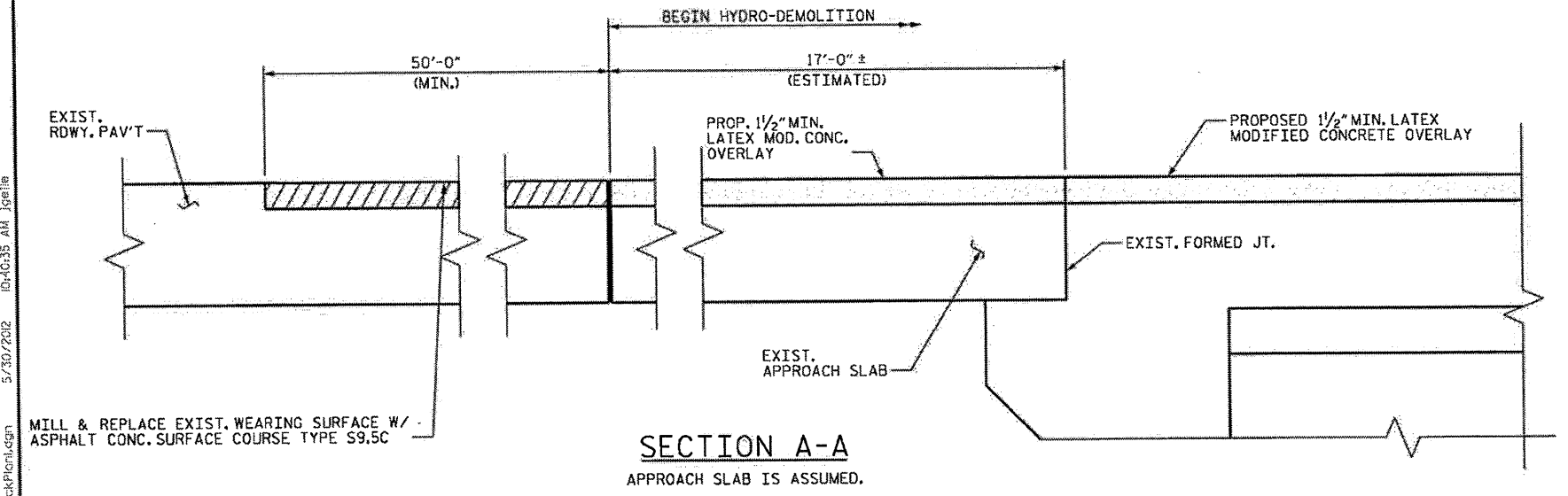
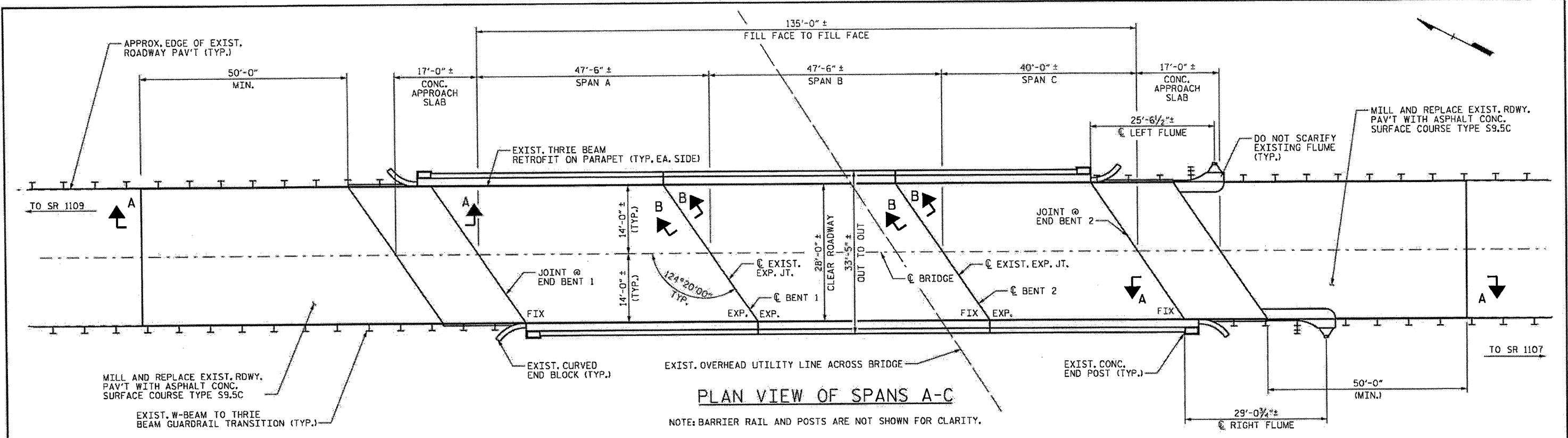
Joseph J. Kelvington
 12/15/11
 13406
 KELVINGTON



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DRAWN BY : B. C. MACYOWSKY DATE : 12-15-11
 CHECKED BY : J. T. KELVINGTON DATE : 12-15-11

WBS 17BP.11.H.3 Caldwell & Wilkes Co. Caldwell & Wilkes Co. Bridge 14 Drawing BR130014.LS.BDM.dgn 5/20/2012 10:40:33 AM jgelle



NOTES:

EXISTING JOINTS AND DECK DRAINS SHALL BE SEALED PRIOR TO BEGINNING REPAIR OF BRIDGE DECKS WITH LATEX MODIFIED CONCRETE. 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 THE DECK. SEE DETAIL, SHT. S-18.

LATEX MODIFIED CONCRETE SHALL BE LATEX MODIFIED CONCRETE - VERY EARLY STRENGTH.

FOR LATEX MODIFIED CONCRETE - VERY EARLY STRENGTH, SEE SPECIAL PROVISIONS.

FOR SECTION B-B, SEE SHT. S-21.

PROJECT NO. WBS 17BP.11.H.3
CALDWELL COUNTY
 STATION: _____

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

PLAN OF BRIDGE

DECK REHAB. FOR BRIDGE NO. 14

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

SHEET NO. S-16
 TOTAL SHEETS 28

Joseph Kelvington
 12/15/11
 13406
 ENGINEER

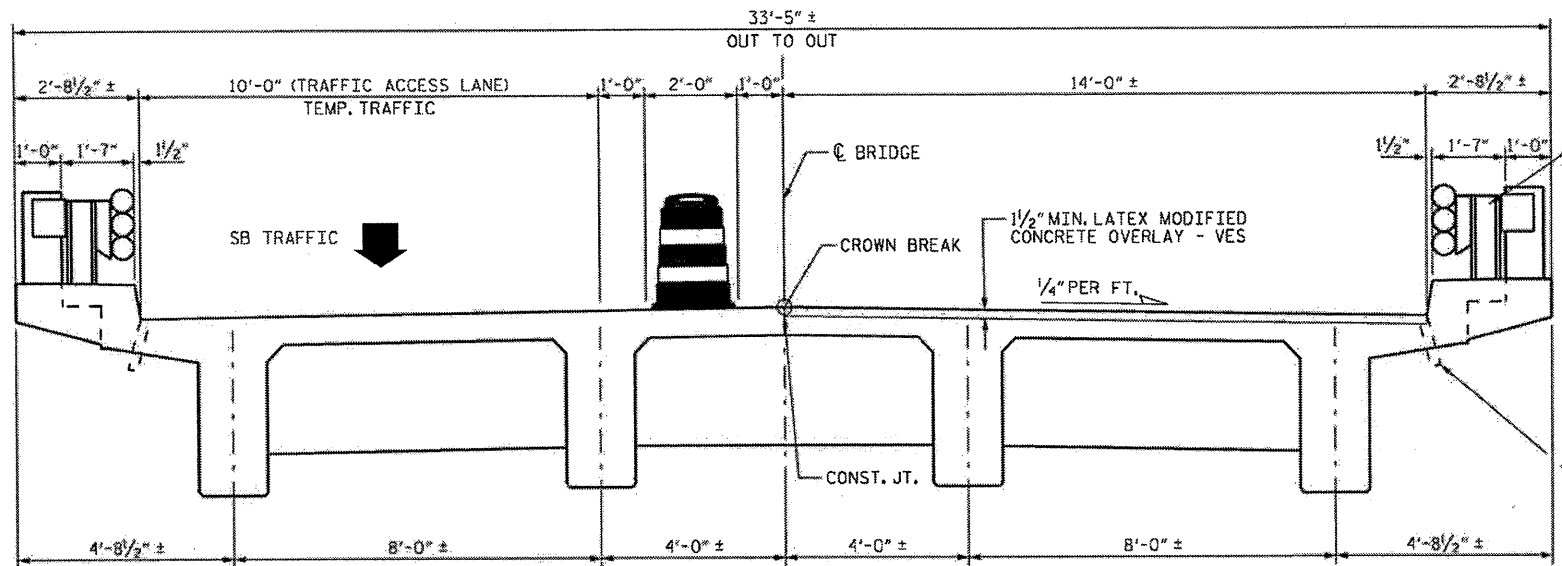
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 www.stantec.com
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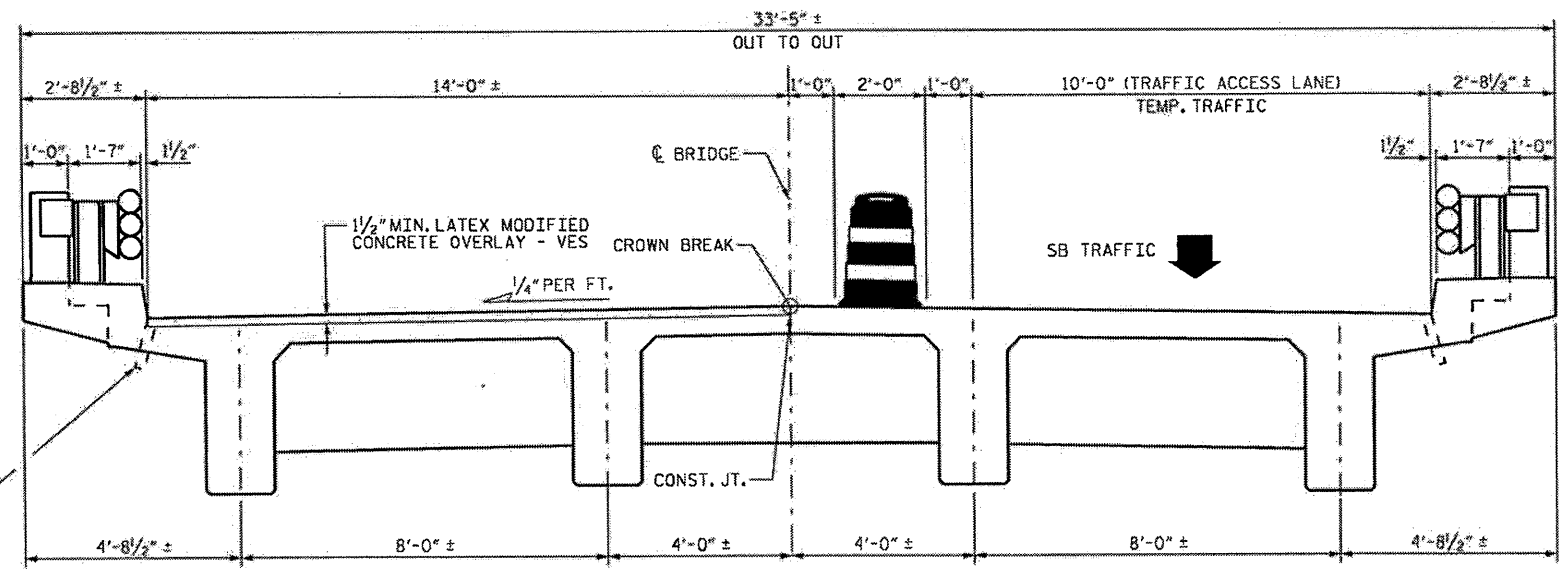
DRAWN BY: B. C. MACYOWSKY DATE: 12-15-11
 CHECKED BY: J. T. KELVINGTON DATE: 12-15-11

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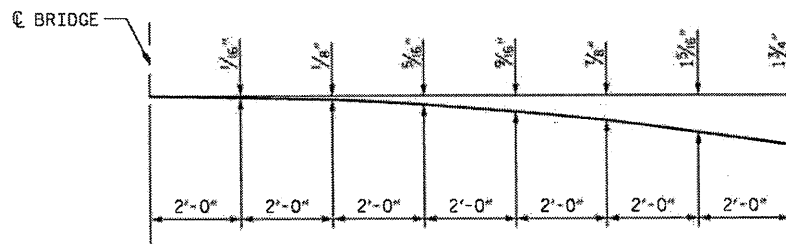
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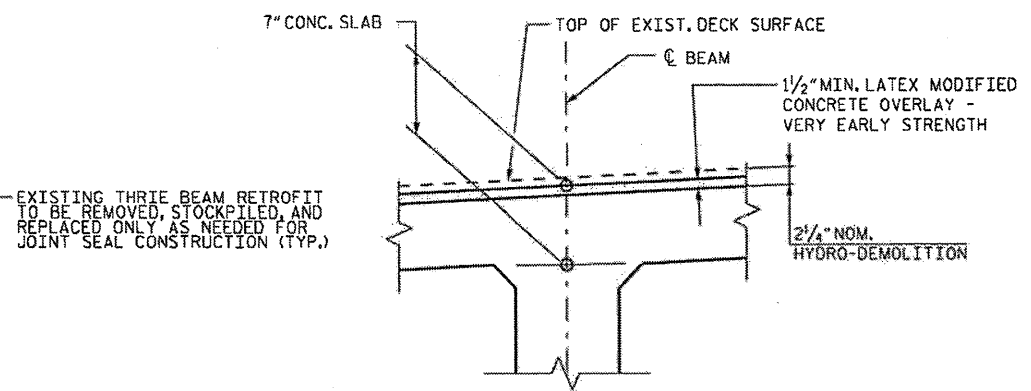
TYPICAL SECTION
 SPANS A, B, C
 NOTE: ALL DIMENSIONS SHOWN ARE APPROXIMATE.



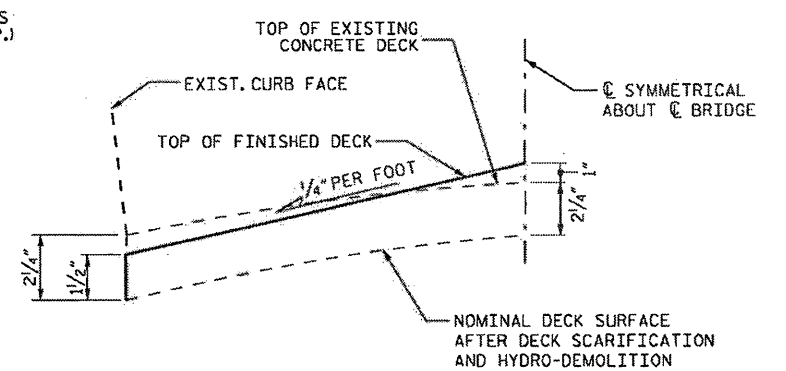
TYPICAL SECTION
 SPANS A, B, C
 NOTE: ALL DIMENSIONS SHOWN ARE APPROXIMATE.



EXISTING CROWN DIAGRAM
 NOTE: DIAGRAM SYMMETRICAL ABOUT BRIDGE C.



EXIST. SLAB DETAIL



BRIDGE CROSS SLOPE SCHEMATIC FOR DECK OVERLAY

NOTES:

"VES" DENOTES VERY EARLY STRENGTH.
 WATER & CONCRETE SLURRY FROM HYDRO-DEMOLITION SHALL NOT BE ALLOWED TO DRAIN ACROSS TRAVEL LANES. CONTRACTOR SHALL PROVIDE A METHOD TO CONTROL THE WATER.
 FOR TRAFFIC CONTROL AND CONSTRUCTION PHASING, SEE TRANSPORTATION MANAGEMENT PLANS.

PROJECT NO. WBS 17BP.11.H.3
CALDWELL COUNTY
STATION: _____

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 www.stantec.com
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DRAWN BY: **B. C. MACYOWSKY** DATE: **12-15-11**
 CHECKED BY: **J. T. KELVINGTON** DATE: **12-15-11**



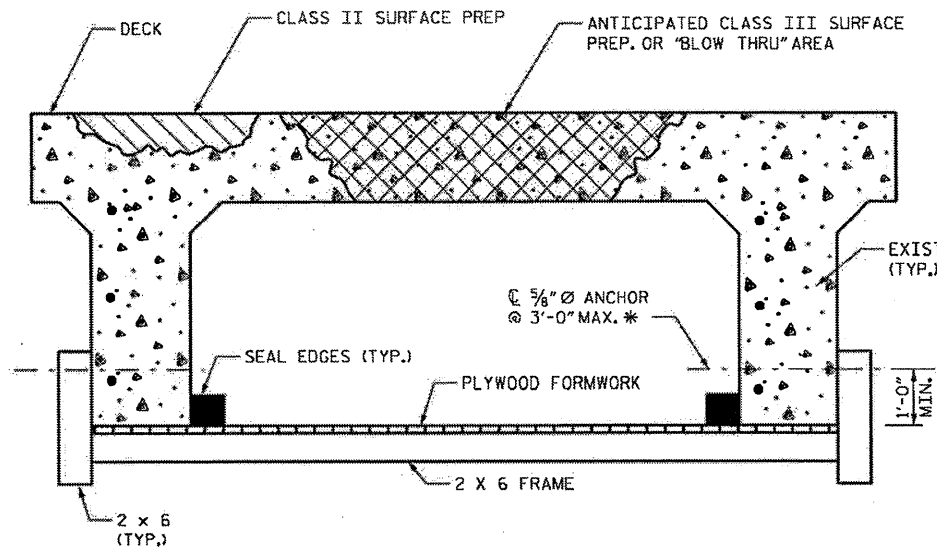
STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

TYPICAL SECTION

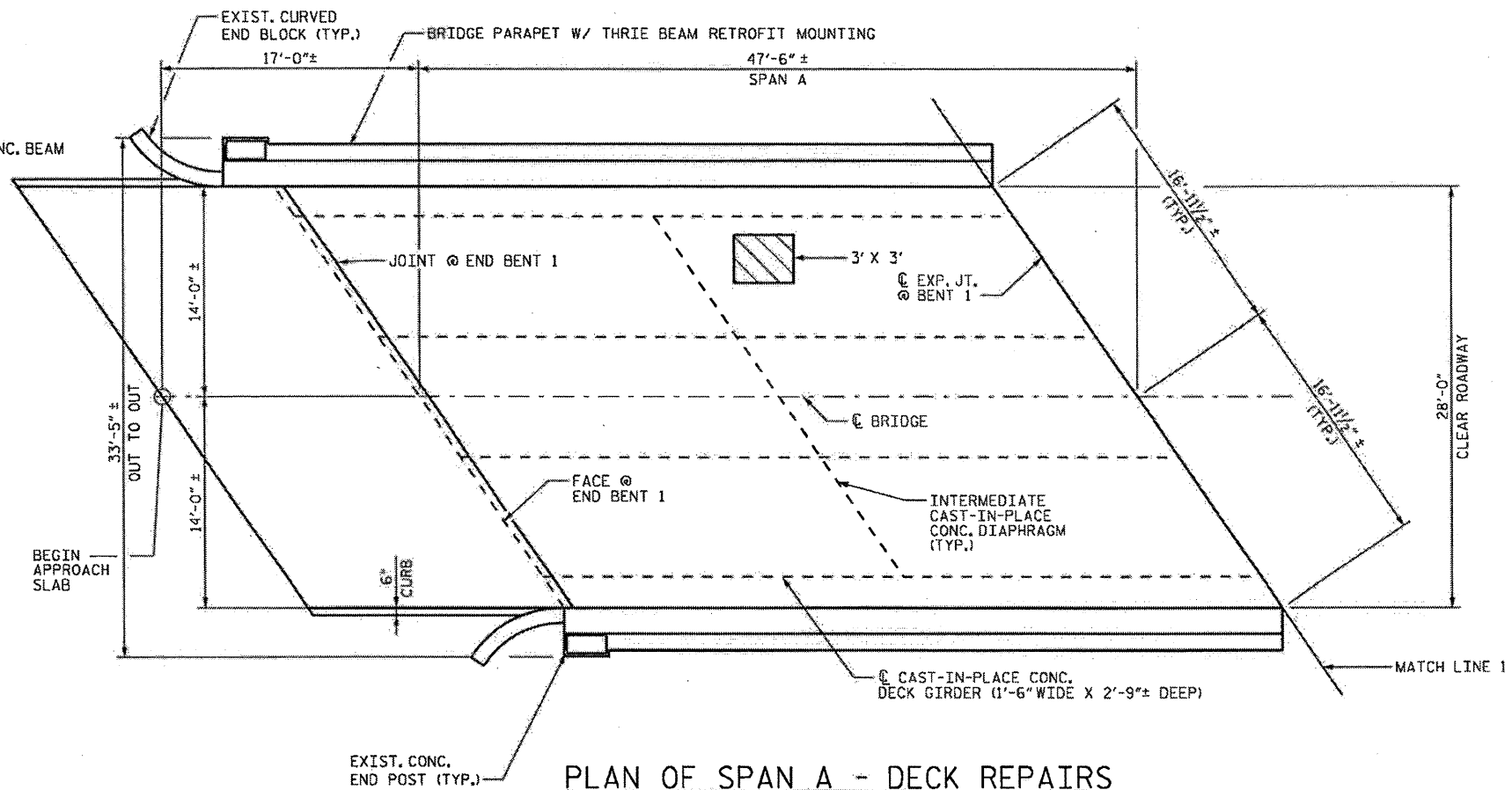
DECK REHAB. FOR BRIDGE NO. 14

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

TOTAL SHEETS: 28



TYP. "BLOW THRU" CONTAINMENT AND FORMWORK



PLAN OF SPAN A - DECK REPAIRS

NOTE: EXIST. CONC. BARRIER AND POSTS ARE NOT SHOWN FOR CLARITY.

NOTES:



CONTRACTOR SHALL FURNISH FORMWORK TO SUPPORT SLAB OVERHANG REGIONS WITH EXTENSIVE CLASS III SURFACE PREPARATION.

COSTS FOR INSTALLING AND REMOVING FORMWORK SHALL BE INCIDENTAL TO THE PRICE BID PER SQ. YD. OF HYDRO DEMOLITION.

CLASS II AND CLASS III SURFACE PREPARATION SHOWN IS REPRESENTATIVE AND DOES NOT REFLECT ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED @ THE PROJECT SITE.

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 ALL PROPOSED FORMWORK FOR APPROVAL PRIOR TO BEGINNING WORK.

-  CLASS II SURFACE PREPARATION
-  CLASS III SURFACE PREPARATION

L X W = LENGTH OF AREA PARALLEL TO C BRIDGE X WIDTH IF AREA PERPENDICULAR TO C BRIDGE.

PROJECT NO. WBS 17BP.11.H.3
CALDWELL COUNTY
 STATION: _____

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH


DECK REPAIR DETAILS

DECK REHAB. FOR BRIDGE NO. 14

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

John J. Kelvington
 12/15/11
 SEAL 13406
 ENGINEER

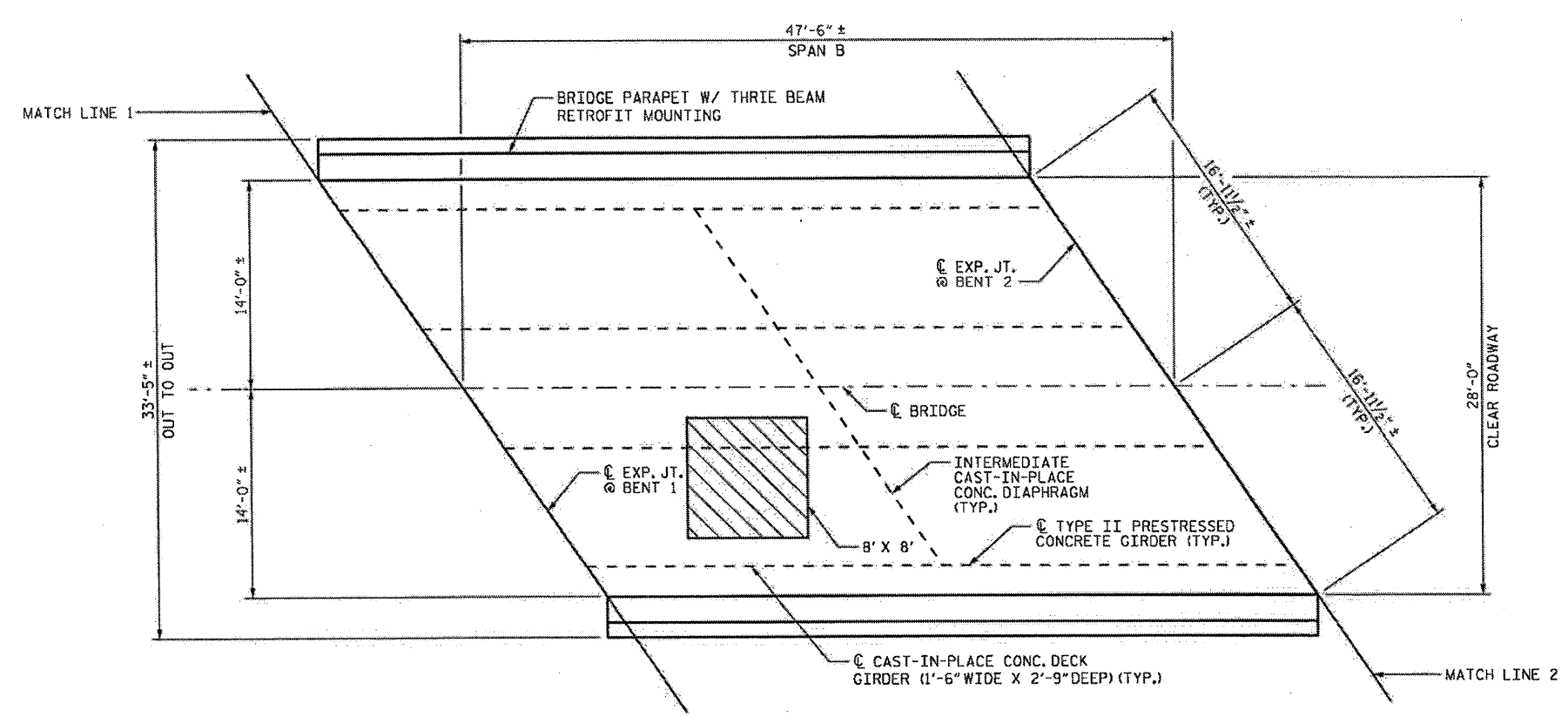
17BP.11.H.3 Caldwell, N.C. \C:\caldwell\17BP.11.H.3\17BP.11.H.3.dwg 5/13/2012 10:40:40 AM jgelle



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 Fax. (919) 851-7024
 www.stantec.com
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DRAWN BY: B. C. MACYOWSKY DATE: 12-15-11
 CHECKED BY: J. T. KELVINGTON DATE: 12-15-11

7892.dwg, 3 Caldwell & Wilkes Co \Caldwell \A-Bridge 14 \Drawing \BPI300.dwg, RepairPlan2.dgn 5/31/2012 10:40:42 AM jpc/lie



PLAN OF SPAN B - DECK REPAIRS

NOTE: EXIST. CONC. BARRIER AND POSTS ARE NOT SHOWN FOR CLARITY.

NOTES:

- CONTRACTOR SHALL FURNISH FORMWORK TO SUPPORT SLAB OVERHANG REGIONS WITH EXTENSIVE CLASS III SURFACE PREPARATION.
- COSTS FOR INSTALLING AND REMOVING FORMWORK SHALL BE INCIDENTAL TO THE PRICE BID PER SQ. YD. OF HYDRO DEMOLITION.
- CLASS II AND CLASS III SURFACE PREPARATION SHOWN IS REPRESENTATIVE AND DOES NOT REFLECT ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED @ THE PROJECT SITE.
- 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 ALL PROPOSED FORMWORK FOR APPROVAL PRIOR TO BEGINNING WORK.

- CLASS II SURFACE PREPARATION
- CLASS III SURFACE PREPARATION

L X W = LENGTH OF AREA PARALLEL TO ϕ BRIDGE X WIDTH IF AREA PERPENDICULAR TO ϕ BRIDGE.

J. T. Kelvington
 5/30/12

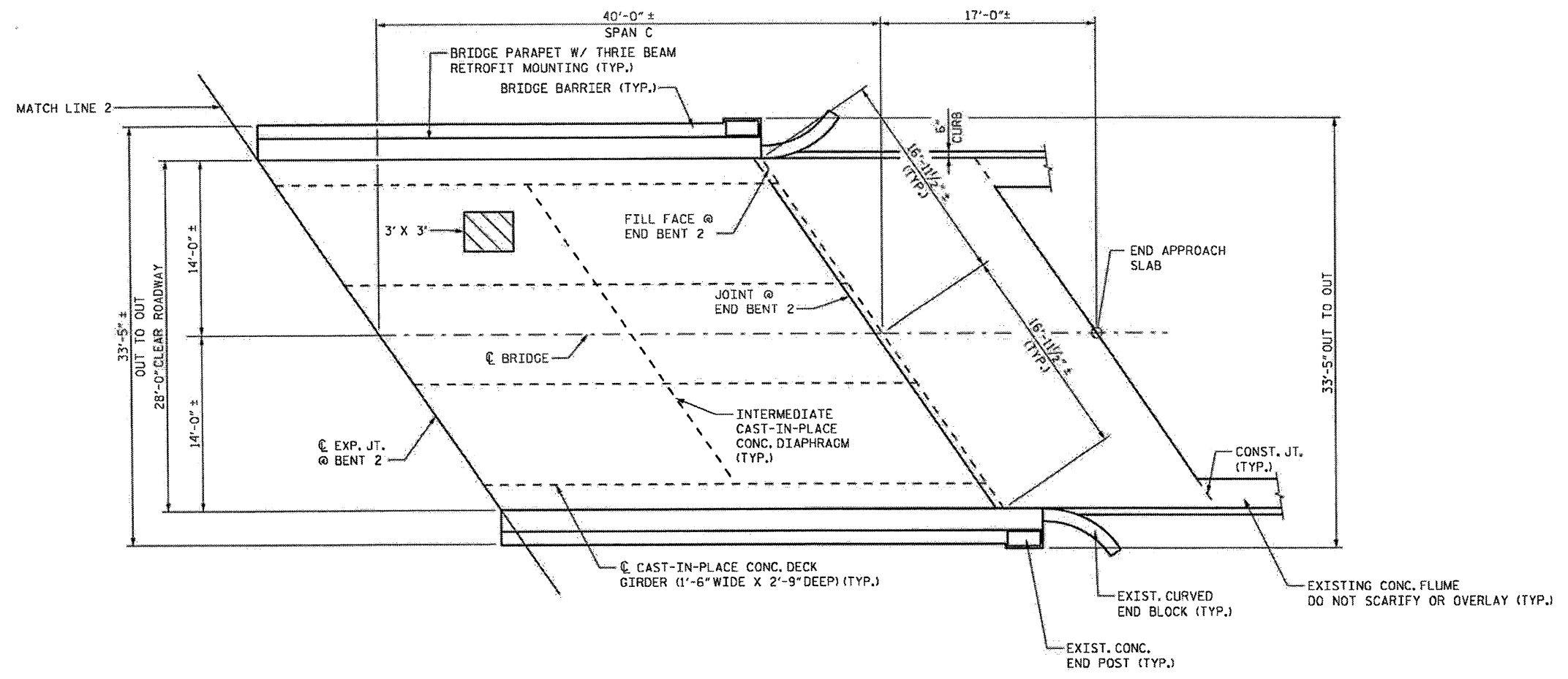
PROJECT NO. WBS 17BP.11.H.3
CALDWELL COUNTY
 STATION: _____

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
DECK REPAIR DETAILS					
DECK REHAB. FOR BRIDGE NO. 14					
REVISIONS					SHEET NO.
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		
					5-19
					TOTAL SHEETS 28

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DRAWN BY : B. C. MACYOWSKY DATE : 12-15-11
 CHECKED BY : J. T. KELVINGTON DATE : 12-15-11

I:\Projects\17BP.11.H.3\Drawings\BPI\3004_Repairs\Plan3.dgn 5/30/2012 10:42:45 AM jspelle



NOTES:

CONTRACTOR SHALL FURNISH FORMWORK TO SUPPORT SLAB OVERHANG REGIONS WITH EXTENSIVE CLASS III SURFACE PREPARATION.

COSTS FOR INSTALLING AND REMOVING FORMWORK SHALL BE INCIDENTAL TO THE PRICE BID PER SQ. YD. OF HYDRO DEMOLITION.

CLASS II AND CLASS III SURFACE PREPARATION SHOWN IS REPRESENTATIVE AND DOES NOT REFLECT ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED @ THE PROJECT SITE.

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 ALL PROPOSED FORMWORK FOR APPROVAL PRIOR TO BEGINNING WORK.

PLAN OF SPAN C - DECK REPAIRS

NOTE: EXIST. CONC. BARRIER AND POSTS ARE NOT SHOWN FOR CLARITY.

- CLASS II SURFACE PREPARATION
- CLASS III SURFACE PREPARATION

L X W = LENGTH OF AREA PARALLEL TO C BRIDGE X WIDTH IF AREA PERPENDICULAR TO C BRIDGE.

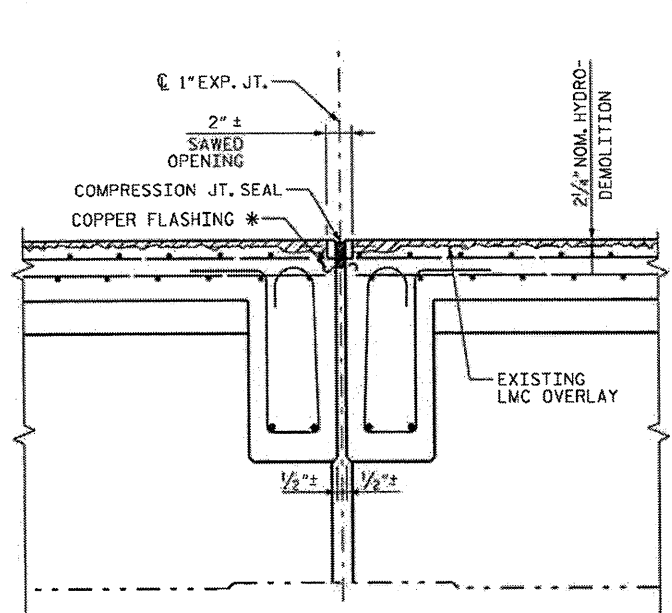
James J. Kelvington
 12/15/11
 SEAL 13406
 PROFESSIONAL ENGINEER
 STATE OF NORTH CAROLINA

PROJECT NO. WBS 17BP.11.H.3
CALDWELL COUNTY
 STATION: _____

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
DECK REPAIR DETAILS					
DECK REHAB. FOR BRIDGE NO. 14					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
					SHEET NO. S-20
					TOTAL SHEETS 28

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DRAWN BY: B. C. MACYOWSKY DATE: 12-15-11
 CHECKED BY: J. T. KELVINGTON DATE: 12-15-11



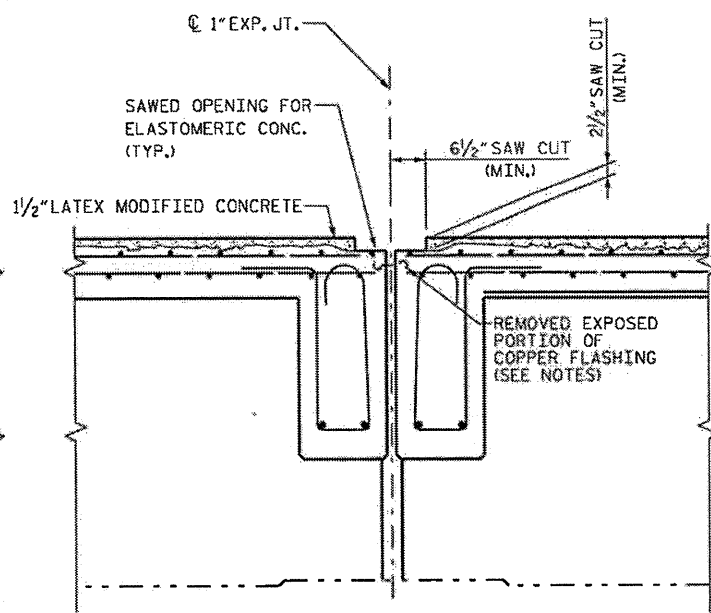
SECTION B-B

(CONCRETE REMOVAL AT EXISTING JOINT)

* FROM BEST AVAILABLE INFORMATION.

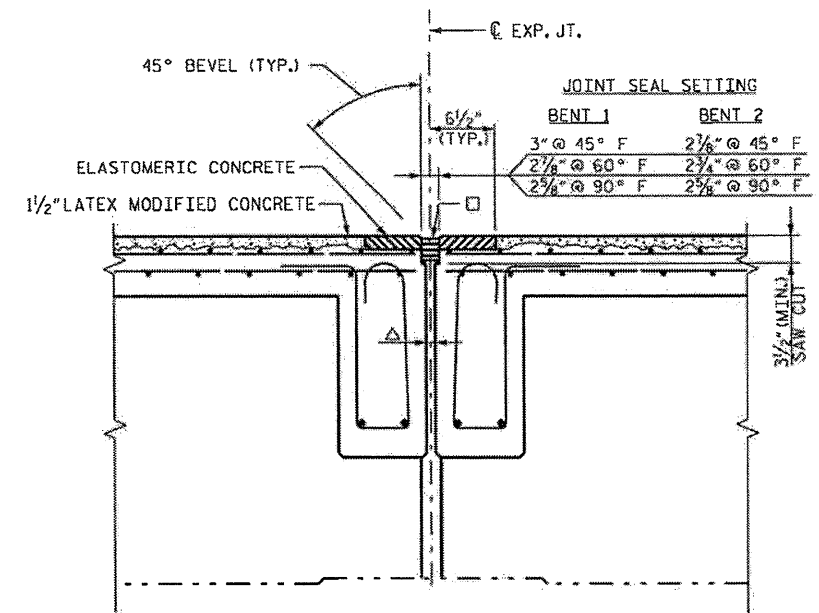
NOTE: RETAIN ALL EXIST. REINF. STEEL. CLEAN AND REPAIR AS REQ'D.

ALL EXPOSED EXISTING JOINT SEAL MATERIALS ARE TO BE COMPLETELY REMOVED.



SECTION B-B

(LATEX MOD. CONC. OVERLAY AND CONCRETE REMOVAL FOR ELASTOMERIC CONCRETE)



SECTION B-B

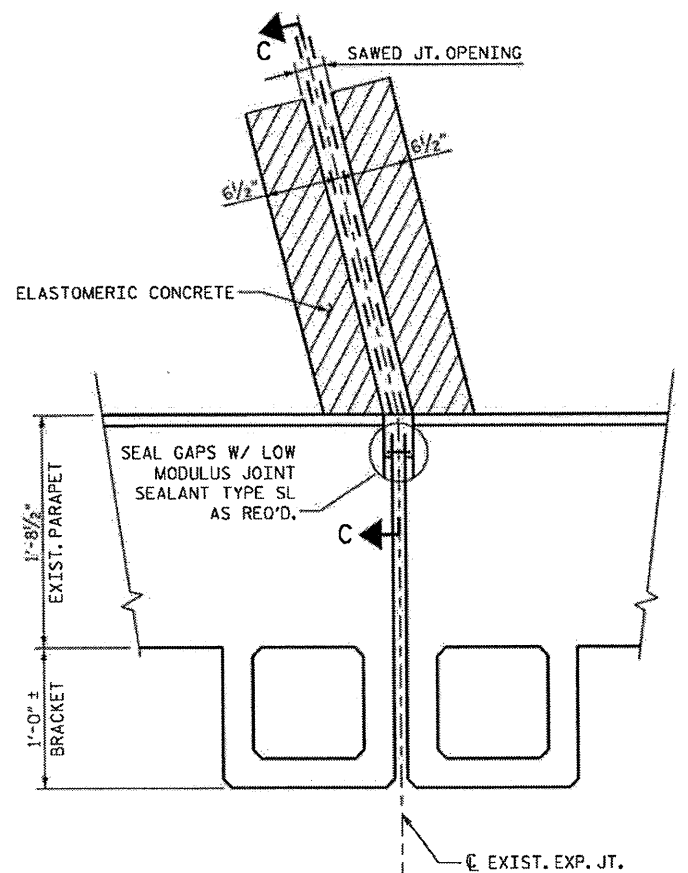
(PLACEMENT OF ELASTOMERIC CONCRETE AND SAW CUT FOR FOAM JOINT SEAL)

□ USE 3.4375" X 2.50" UNCOMPRESSED FOAM JOINT SEAL MATERIAL

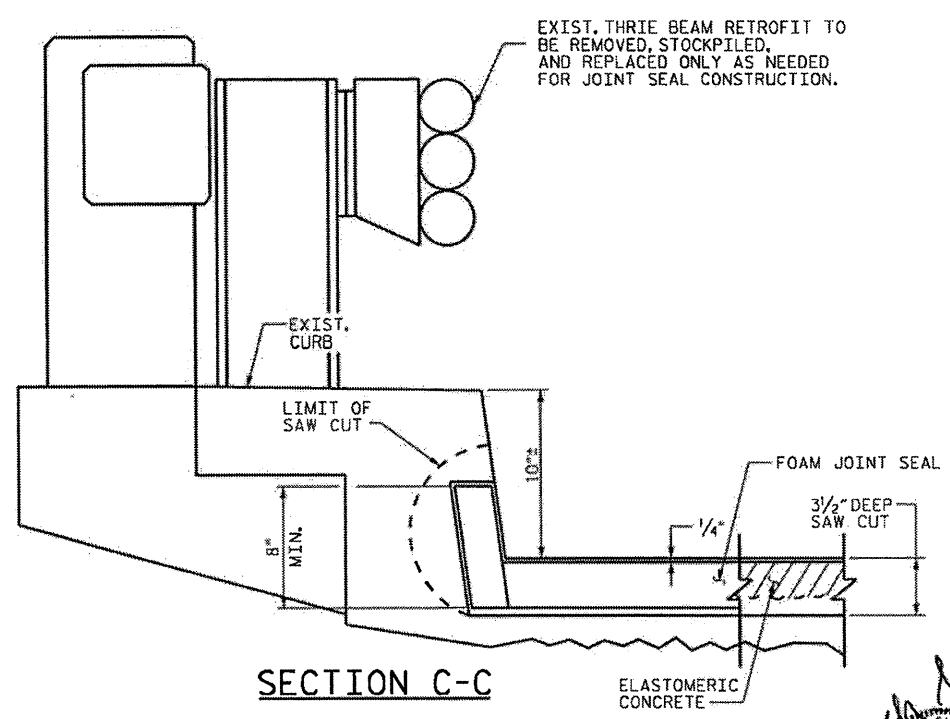
△ 1" EXISTING JOINT OPENING

ELASTOMERIC CONCRETE	
LOCATION	QTY
BENT 1	4.24 C.F.
BENT 2	4.24 C.F.

TOTAL ELASTOMERIC CONC. = 8.5 C.F.
TOTAL ELASTOMERIC CONC. = 0.3 C.Y.



PARTIAL PLAN @ INTERIOR BENT



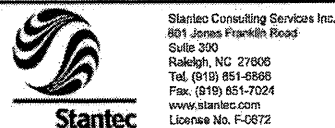
SECTION C-C

CONTRACTOR SHALL EXERCISE CARE TO AVOID CUTTING OR DAMAGING EXISTING REINF. STEEL.

PROJECT NO. WBS 17BP.11.H.3
CALDWELL COUNTY
STATION: _____

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH				
INTERIOR BENT JOINT SEAL DETAILS				
DECK REHAB. FOR BRIDGE NO. 14				
REVISIONS				SHEET NO.
NO.	BY	DATE	NO.	DATE
1			3	
2			4	
				5-21
				TOTAL SHEETS: 28

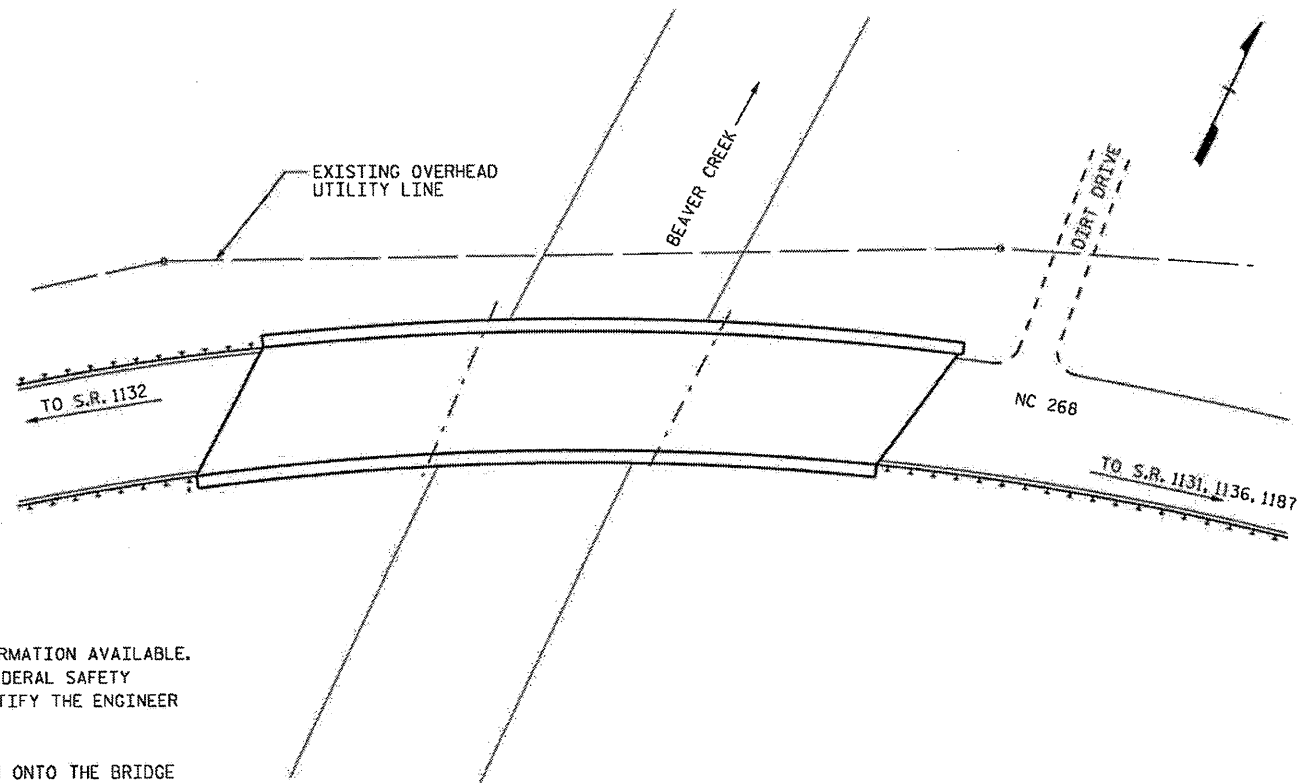
Joseph J. Kelvington
PROF. SEAL
13406
J. T. KELVINGTON
REGISTERED PROFESSIONAL ENGINEER
STATE OF NORTH CAROLINA



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DRAWN BY: B. C. MACYOWSKY DATE: 12-15-11
CHECKED BY: J. T. KELVINGTON DATE: 12-15-11

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NOTES:
 EXISTING DIMENSIONS AND BRIDGE CONDITION ARE FROM THE BEST INFORMATION AVAILABLE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL STATE AND FEDERAL SAFETY REQUIREMENTS. THE CONTRACTOR SHALL FIELD VERIFY THE PLANS AND NOTIFY THE ENGINEER IF ACTUAL DIMENSIONS AND CONDITIONS DIFFER.

ROADWAY SCARIFICATION IS INCLUDED TO ENSURE A SMOOTH TRANSITION ONTO THE BRIDGE FLOOR. DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL SCARIFY AS REQUIRED TO PROVIDE A SMOOTH TRANSITION TO THE ROADWAY AT BOTH ENDS OF THE BRIDGE.

FOR FOAM JOINT SEALS, SEE SPECIAL PROVISIONS.

FOR ELASTOMERIC CONCRETE, SEE SPECIAL PROVISIONS.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

BRIDGE 56 ON NC 268

LOCATION: BRIDGE 960056, NC 268 ACROSS BEAVER CREEK
 0.6 MILES WEST OF JUNCTION WITH SR 1136

TOTAL BILL OF MATERIAL											
INCIDENTAL MILLING	SCARIFYING BRIDGE DECK	CLASS I * SURFACE PREPARATION	CLASS II * SURFACE PREPARATION	CLASS III * SURFACE PREPARATION	HYDRO-DEMOLITION OF BRIDGE DECK	CLASS AA * CONCRETE	LATEX MODIFIED CONCRETE OVERLAY-VERY EARLY STRENGTH	PLACING & FINISHING LATEX MOD. CONC. OVERLAY-VERY EARLY STRENGTH	FOAM JOINT SEALS	GROOVING BRIDGE FLOORS	ASPHALT CONC. SURF. COURSE TYPE S9.5B
SQ.YDS.	SQ.YDS.	SQ.YDS.	SQ.YDS.	SQ.YDS.	SQ.YDS.	CU.YDS.	CU.YDS.	SQ.YDS.	LUMP SUM	SO.FT.	TON
366.4	433.4	0	5.3	0	433.4	0	21.3	433.4	LUMP SUM	3,292	27

* QUANTITIES ARE ESTIMATES FROM BEST AVAILABLE DATA, AND SHOULD BE CONSIDERED FOR INFORMATION PURPOSES ONLY. IF ANY CLASS III LOCATIONS ARE ENCOUNTERED PRIOR TO OR DURING HYDRO-DEMOLITION, SEE TYP. "BLOW THRU" CONTAINMENT AND FORMWORK DETAIL. NO SEPARATE MEASUREMENT OR PAYMENT FOR THESE ITEMS WILL BE MADE. ALL COSTS FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR HYDRO-DEMOLITION.

PROJECT NO. WBS 17BP.11.H.3

WILKES COUNTY

STATION: _____

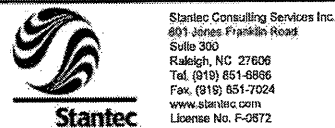
STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

LOCATION SKETCH AND
 TOTAL BILL OF MATERIAL

DECK REHAB FOR BRIDGE NO. 56

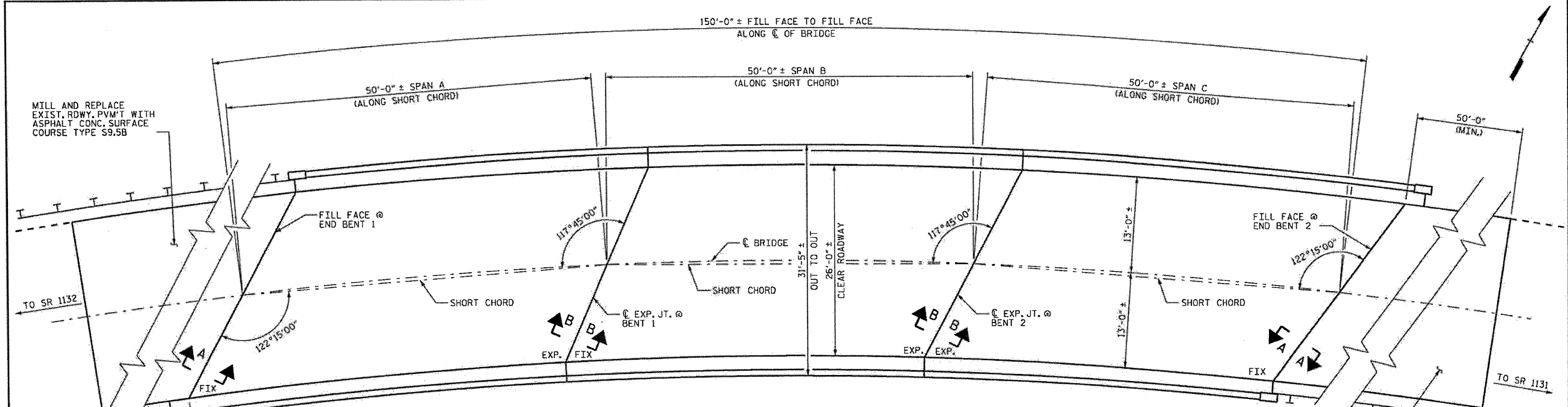
REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	S-22
1			3			TOTAL SHEETS
2			4			28

Joseph J. Kelvington
 11/11/12
 SEAL 13406
 PROFESSIONAL ENGINEER
 STATE OF NORTH CAROLINA



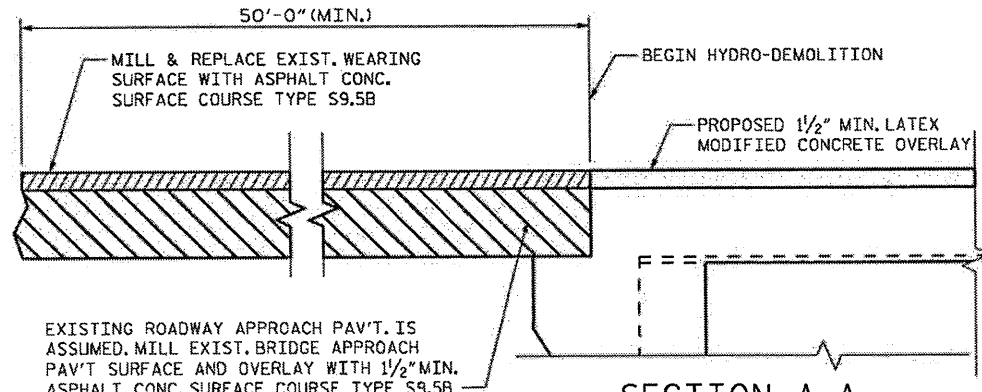
DRAWN BY : B. C. MACYOWSKY DATE : 11/11
 CHECKED BY : J. T. KELVINGTON DATE : 11/11

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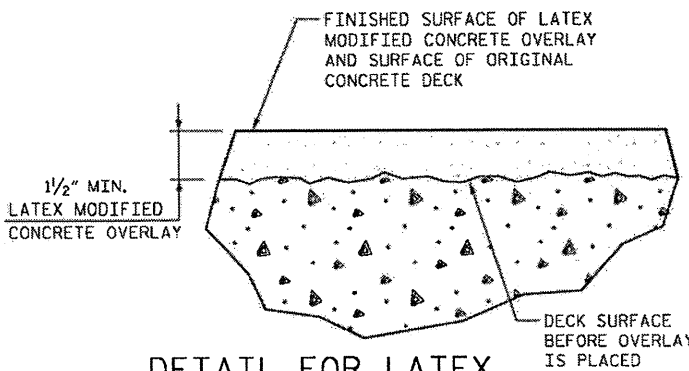


PLAN VIEW OF SPANS A-C

NOTE: ALL DIMENSIONS ARE RADIAL OR ON ARC UNLESS NOTED OTHERWISE. BARRIER RAIL AND POSTS NOT SHOWN FOR CLARITY.



SECTION A-A



DETAIL FOR LATEX MODIFIED CONCRETE OVERLAY

NOTES:

- EXISTING JOINTS AND DECK DRAINS SHALL BE SEALED PRIOR TO BEGINNING REPAIR OF BRIDGE DECKS WITH LATEX MODIFIED CONCRETE. 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 THE DECK. SEE DETAIL, SHT. NO. S-34.
- LATEX MODIFIED CONCRETE SHALL BE LATEX MODIFIED CONCRETE - VERY EARLY STRENGTH.
- FOR LATEX MODIFIED CONCRETE - VERY EARLY STRENGTH, SEE SPECIAL PROVISIONS.
- FOR SECTION B-B, SEE SHT. NO. S-37.

PROJECT NO. WBS 17BP.11.H.3
WILKES COUNTY
 STATION: _____

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 PLAN OF BRIDGE
 DECK REHAB FOR BRIDGE NO. 56

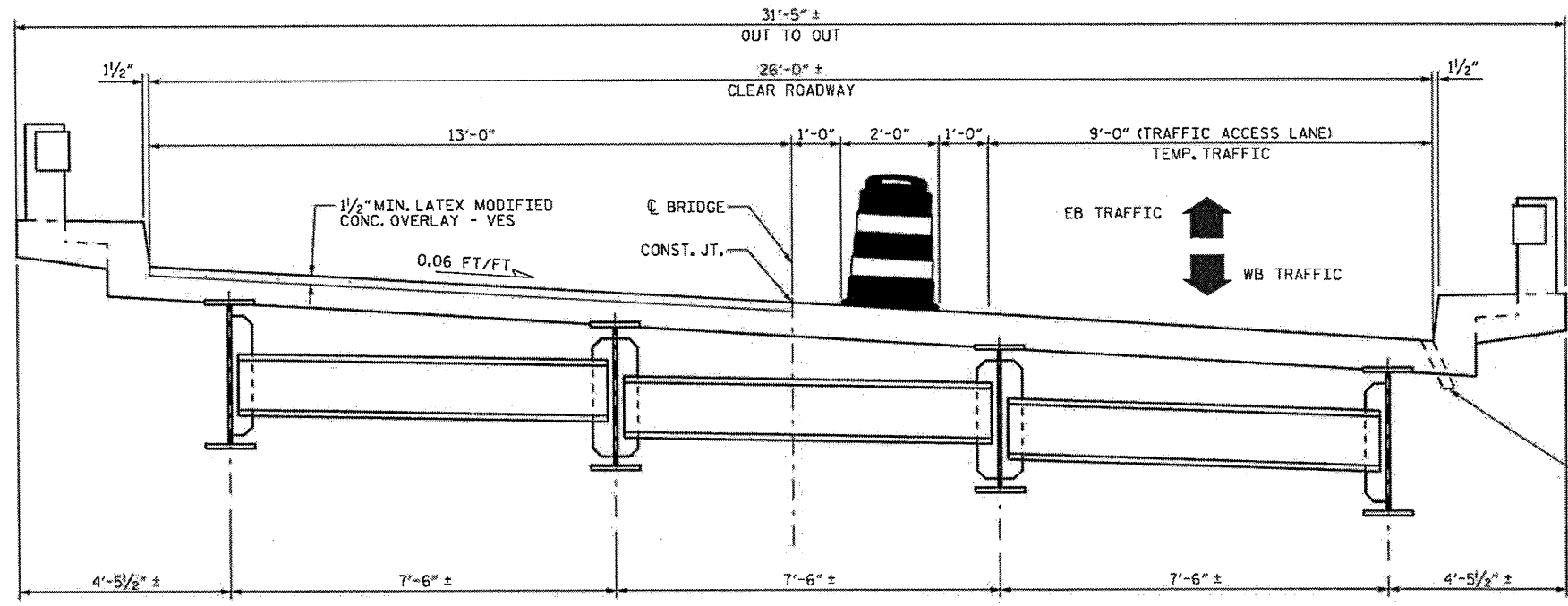
REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	S-23
1			3			TOTAL SHEETS: 28
2			4			

James Kelvington
 11/12/11
 SEAL 13406

2011 WBS 17BP.11.H.3 Catlowell & Wilkes Co\Wilkes 56\Drawings\BPS6_Plan.dgn 5/31/2012 10:40:52 AM jpolite

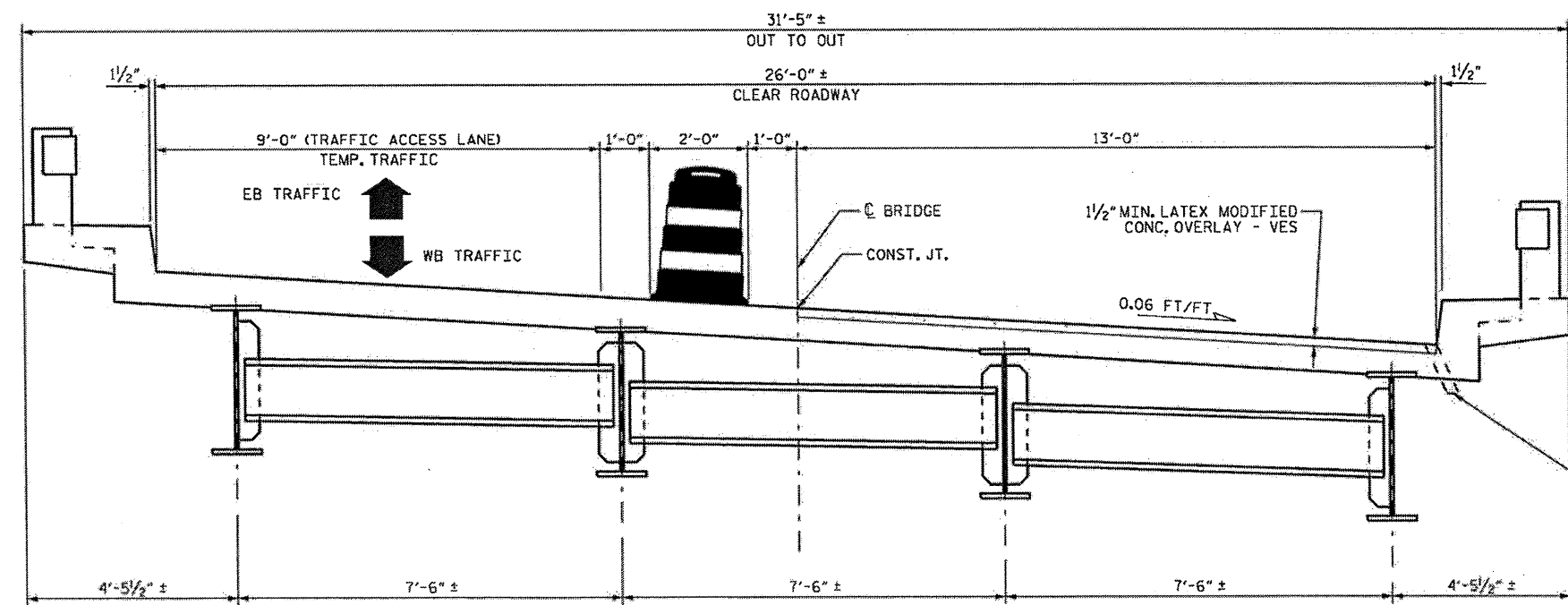
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 Raleigh, NC 27606
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 www.stantec.com
 License No. F-0872

DRAWN BY: B. C. MACYOWSKY DATE: 11/11
 CHECKED BY: J. T. KELVINGTON DATE: 11/11



TYPICAL SECTION

SPAN A-C
NOTE: ALL DIMENSIONS SHOWN ARE APPROXIMATE.



TYPICAL SECTION

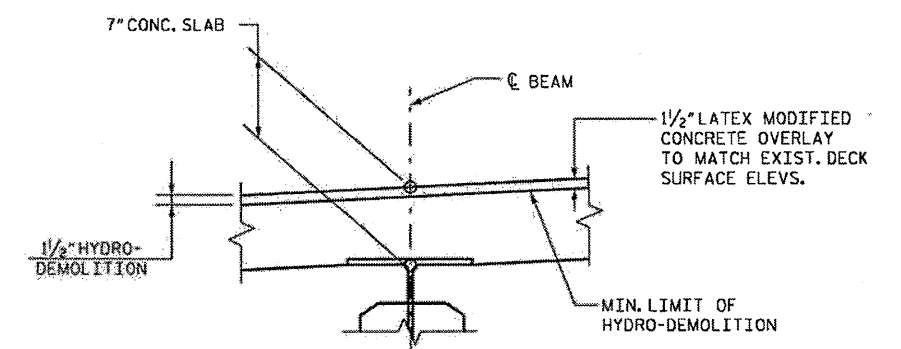
SPAN A-C
NOTE: ALL DIMENSIONS SHOWN ARE APPROXIMATE.

NOTES:

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

FOR TRAFFIC CONTROL AND CONSTRUCTION PHASING, SEE TRANSPORTATION MANAGEMENT PLANS.

EXIST. DECK DRAINS TO BE SEALED (TYP.)



EXIST. SLAB BUILDUP

EXIST. DECK DRAINS TO BE SEALED (TYP.)

PROJECT NO. WBS 17BP.11.H.3
WILKES COUNTY
STATION: _____

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

BRIDGE TYPICAL SECTION

DECK REHAB FOR BRIDGE NO. 56

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	S-24
1			3			28
2			4			28

James K. King
Professional Engineer
Seal 13406
State of North Carolina

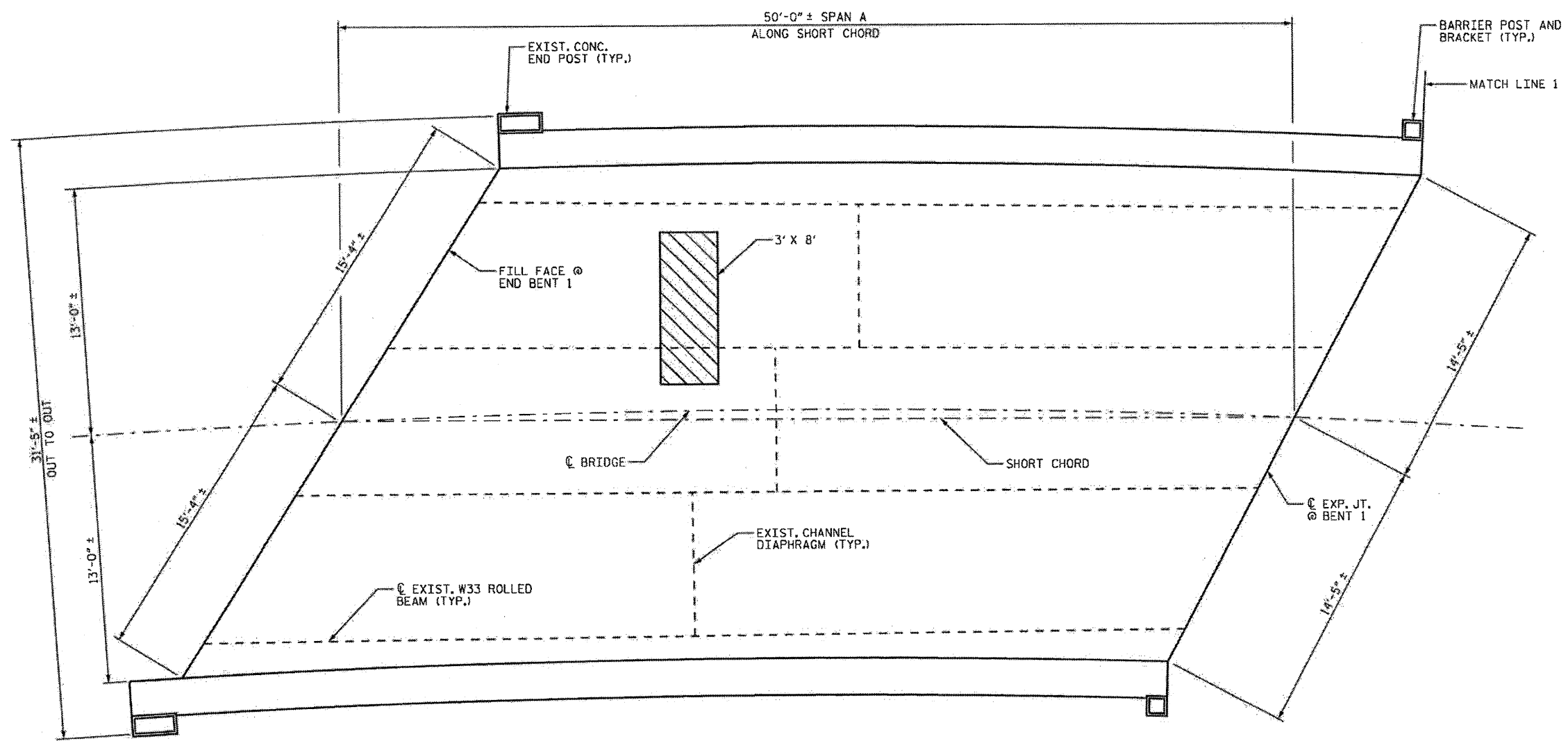


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DRAWN BY: B. C. MACYDOWSKY DATE: 11/11
CHECKED BY: J. T. KELVINGTON DATE: 11/11

2018 WBS 17BP.11.H.3 Colwell & Wilkes Co. Wilkes Co. Drawing: 56.Drawing.DP56.TYP.dgn 5/30/2012 10:40:54 AM Igelim

15 17BP.11.H.3 Colwell & Wilkes Co. Wilkes Co. Wilkes 56 N. Bridge St. Drawing 19P16-Repairs/PlanA.dgn 5/23/2012 10:40:56 AM jgelle



PLAN OF SPAN A - DECK REPAIRS

NOTE: EXISTING CONCRETE BARRIER, POSTS AND POST BRACKETS ARE NOT ENTIRELY SHOWN FOR CLARITY.

- CLASS II SURFACE PREPARATION
- CLASS III SURFACE PREPARATION

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

NOTES:

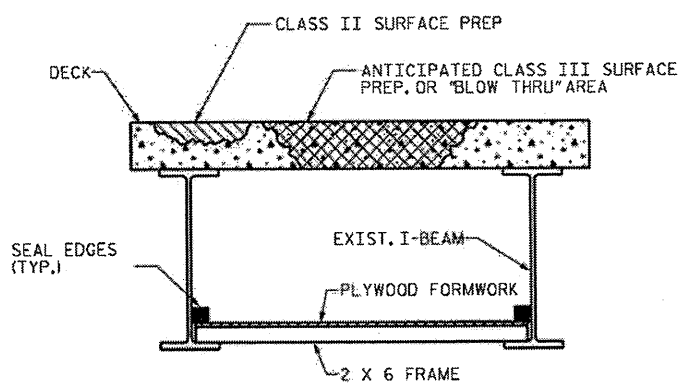
CONTRACTOR SHALL FURNISH FORMWORK TO SUPPORT SLAB OVERHANG REGIONS WITH EXTENSIVE CLASS III SURFACE PREPARATION.

COSTS FOR INSTALLING AND REMOVING FORMWORK SHALL BE INCIDENTAL TO THE PRICE BID PER SQ. YD. OF HYDRO-DEMOLITION.

CLASS II AND CLASS III SURFACE PREPARATION SHOWN IS REPRESENTATIVE AND DOES NOT REFLECT ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED @ THE PROJECT SITE.

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.



TYP. "BLOW THRU" CONTAINMENT AND FORMWORK

PROJECT NO. WBS 17BP.11.H.3
WILKES COUNTY
STATION: _____

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

DECK REPAIR DETAILS

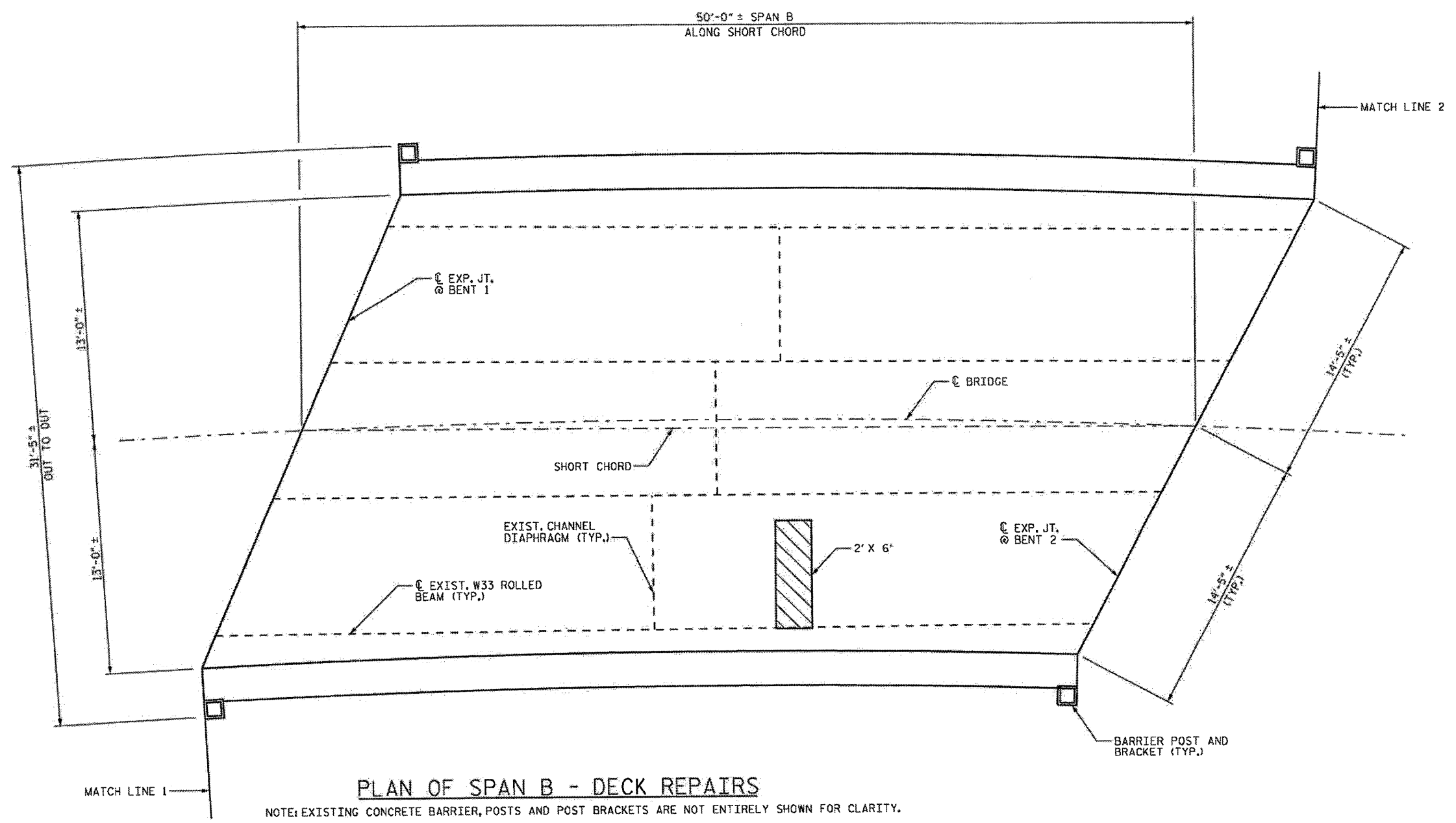
DECK REHAB FOR BRIDGE NO. 56

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	5-25
1			3			TOTAL SHEETS
2			4			28

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 Suite 300
 Raleigh, NC 27606
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 Fax. (919) 851-7024
 www.stantec.com
 License No. F-0672

DRAWN BY : B. C. MACYOWSKY DATE : 11/11
 CHECKED BY : J. I. KELVINGTON DATE : 11/11

15:17BP.11.3 Caldwel & Wilkes Co Wilkes Co Bridge 56 Drawing ABP56 Repair Plan.dgn 5/30/2012 10:40:58 AM Jpelle



PLAN OF SPAN B - DECK REPAIRS

NOTE: EXISTING CONCRETE BARRIER, POSTS AND POST BRACKETS ARE NOT ENTIRELY SHOWN FOR CLARITY.

- CLASS II SURFACE PREPARATION
- CLASS III SURFACE PREPARATION

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

NOTES:

CONTRACTOR SHALL FURNISH FORMWORK TO SUPPORT SLAB OVERHANG REGIONS WITH EXTENSIVE CLASS III SURFACE PREPARATION.

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PROJECT NO. WBS 17BP.11.H.3
WILKES COUNTY
 STATION: _____

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

DECK REPAIR DETAILS

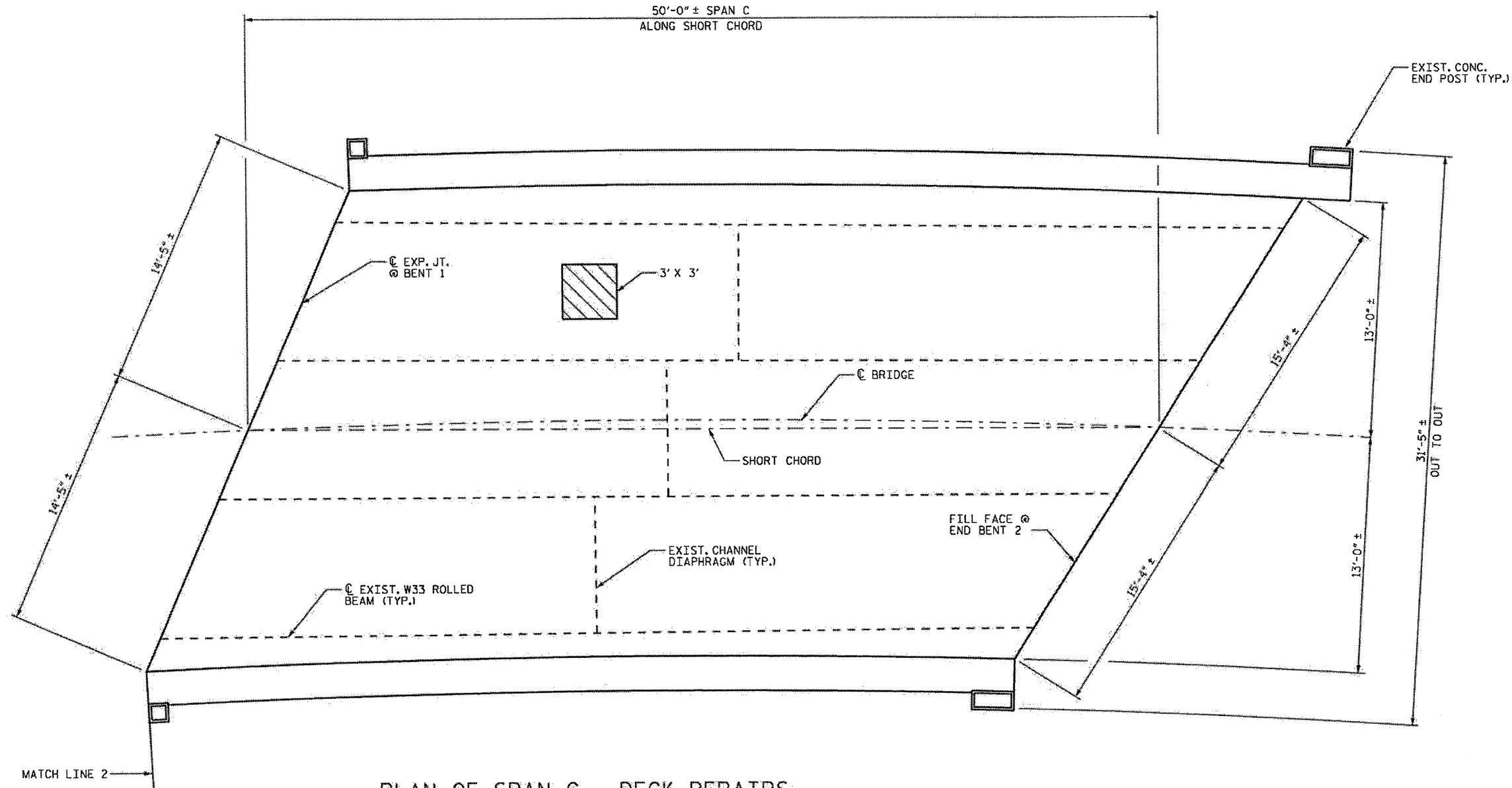
DECK REHAB FOR BRIDGE NO. 56

Joseph J. Kelvington
 11/21/11

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



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DRAWN BY : B. C. MACYOWSKY DATE : 11/11
 CHECKED BY : J. T. KELVINGTON DATE : 11/11



PLAN OF SPAN C - DECK REPAIRS

NOTE: EXISTING CONCRETE BARRIER, POSTS AND POST BRACKETS ARE NOT ENTIRELY SHOWN FOR CLARITY.

-  CLASS II SURFACE PREPARATION
-  CLASS III SURFACE PREPARATION

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

NOTES:

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PROJECT NO. WBS 17BP.11.H.3

WILKES COUNTY


STATION: _____

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH


DECK REPAIR DETAILS

DECK REHAB FOR BRIDGE NO. 56

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	5-27
1			3			TOTAL SHEETS
2			4			28

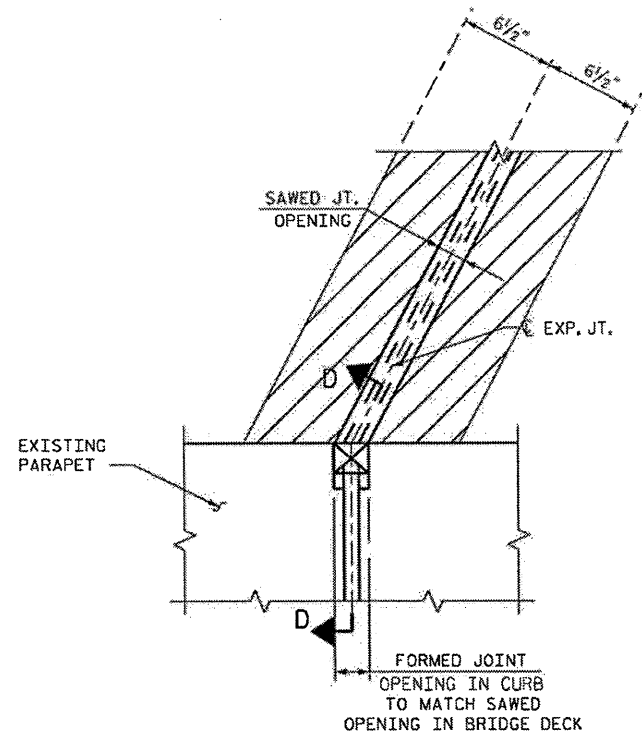
Joseph J. Kelvington


S:\17BP.11.H.3_Coldwell & Wilkes Co\Wilkes 56\Bridges 56\Bridges 56\Drawing\17BP56_RepairPlanC.dwg 5/30/2012 10:40:02 AM jpselle

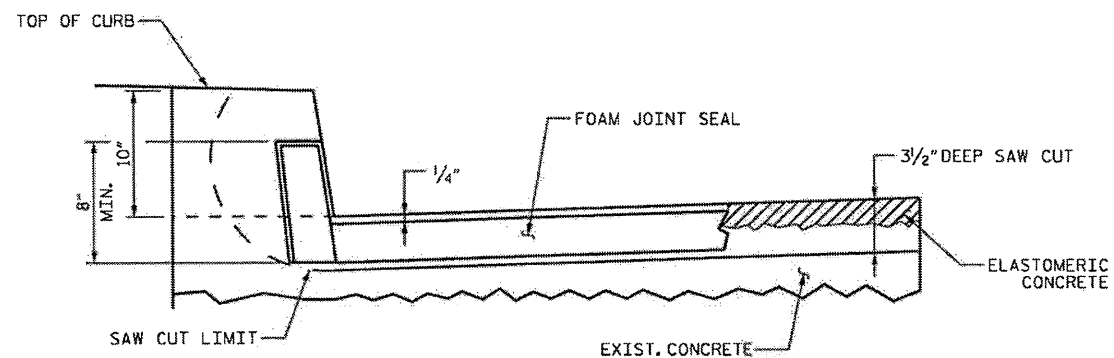


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Fax. (919) 851-7024
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DRAWN BY : B. C. MACYOWSKY DATE : 11/11
 CHECKED BY : J. T. KELVINGTON DATE : 11/11



PARTIAL PLAN @ JOINT
(TYP. @ INTERIOR BENT AND END BENTS)

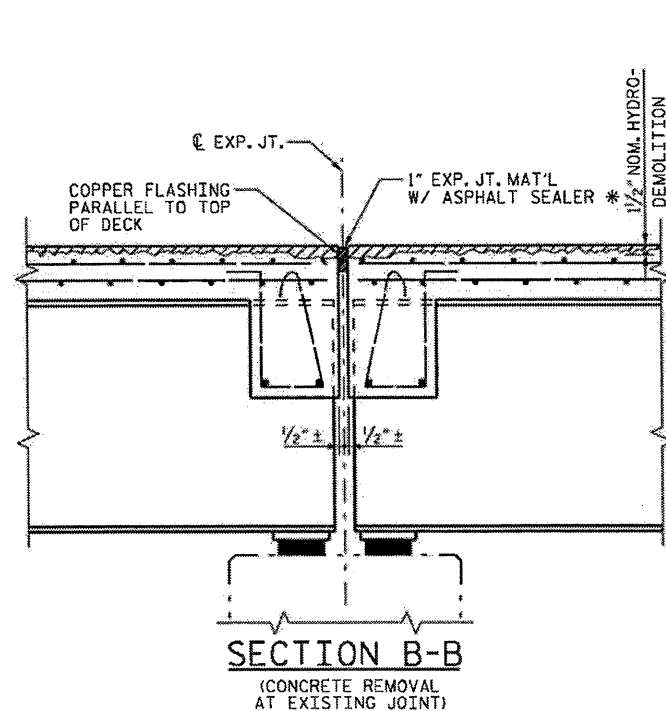


SECTION D-D

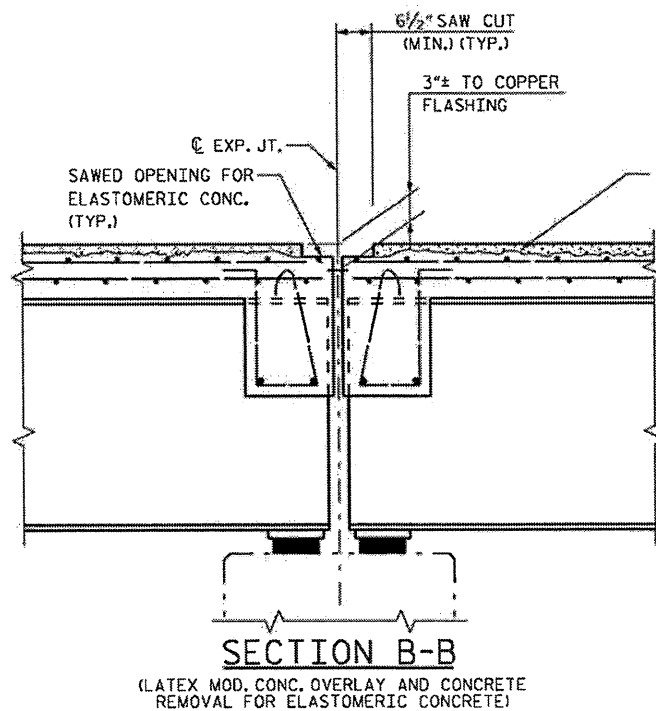
CONTRACTOR SHALL EXERCISE CARE TO AVOID CUTTING OR DAMAGING EXISTING REINF. STEEL.

ELASTOMERIC CONCRETE	
LOCATION	QTY
BENT 1	5.8 C.F.
BENT 2	5.8 C.F.

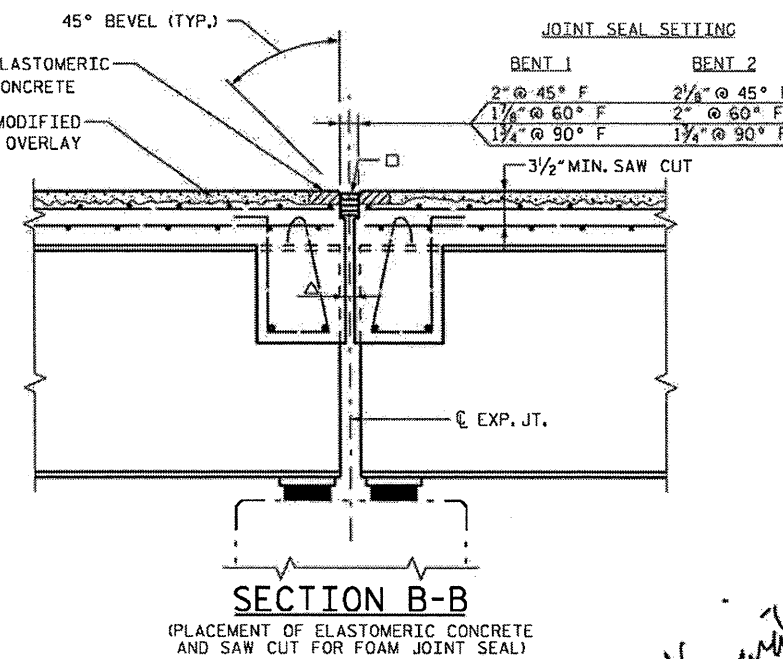
TOTAL ELASTOMERIC CONC. = 11.6 C.F.
TOTAL ELASTOMERIC CONC. = 0.43 C.Y.



SECTION B-B
(CONCRETE REMOVAL AT EXISTING JOINT)



SECTION B-B
(LATEX MOD. CONC. OVERLAY AND CONCRETE REMOVAL FOR ELASTOMERIC CONCRETE)



SECTION B-B
(PLACEMENT OF ELASTOMERIC CONCRETE AND SAW CUT FOR FOAM JOINT SEAL)

- USE 2.8125" X 2.00" UNCOMPRESSED JT. SEAL MATERIAL.
- △ EXISTING 1" FORMED OPENING

Joseph T. Kelvington

PROJECT NO. **WBS 17BP.11.H.3**
WILKES COUNTY
 STATION: _____

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
EXPANSION JOINT DETAILS
DECK REHAB FOR BRIDGE NO. 56

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

2011 WBS 17BP.11.H.3 Colowell & Wilkes Co. Wilkes Co. WILKES COUNTY BRIDGE 56 (DRAWING) BPS6.Dwg
 5/30/2012 10:41:05 AM jgallia

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 Fax. (919) 851-7024
 www.stantec.com
 License No. F-0672

DRAWN BY: **B. C. MACYOWSKY** DATE: **11/11**
 CHECKED BY: **J. T. KELVINGTON** DATE: **11/11**

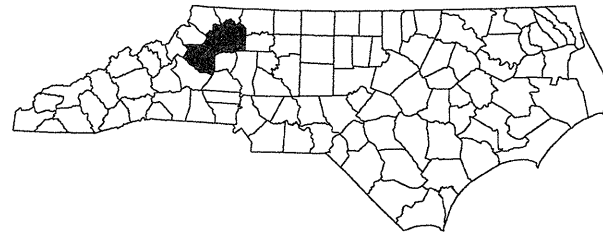
* FROM BEST AVAILABLE INFORMATION.
 NOTE: RETAIN ALL EXIST. REINF. STEEL. CLEAN AND REPAIR AS REQ'D.
 ALL EXPOSED EXISTING JOINT SEAL MATERIALS ARE TO BE COMPLETELY REMOVED.

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

CALDWELL & WILKES COUNTIES

DIVISION II



BRIDGE PRESERVATION

- CALDWELL BRIDGE #8 – US 64/NC 18 OVER SETZER CREEK**
- CALDWELL BRIDGE #13 – US 321 NORTHBOUND OVER SR 1002**
- CALDWELL BRIDGE #14 – US 321 SOUTHBOUND OVER SR 1002**

- WILKES BRIDGE #56 – NC 268 OVER BEAVER CREEK**

INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, INDEX OF SHEETS, & TRAFFIC MANAGEMENT STRATEGY
TMP-1A	LEGEND & LIST OF ROADWAY STANDARD DRAWINGS
TMP-2	GENERAL NOTES
TMP-3	PHASING
TMP-4	CALDWELL BR. #13 US 321 NB WORK AREA
TMP-5	CALDWELL BR. #13 US 321 NB WORK AREA

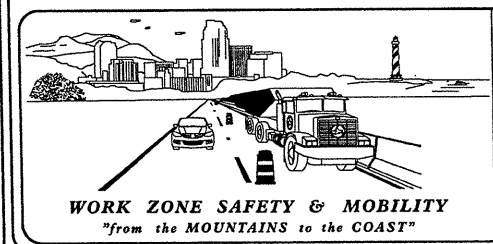
SHEET NO.
TMP-1

WBS 17BP.11.H.3

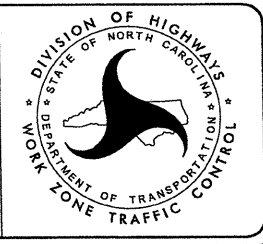
TRAFFIC MANAGEMENT STRATEGY

PROPOSED BRIDGE WORK WILL BE PERFORMED USING TIME RESTRICTED LANE CLOSURES.

5/29/2012 5:27:02 PM C:\TrafficControl\TCP\WBS 17BP.11.H.3 Caldwell Wilkes\TCP\Plan Sheets\17BP.11.H.3.TC.TMP-01.TITLE.dgn Coulter



PLAN PREPARED FOR NCDOT BRIDGE MANAGEMENT UNIT
RALEIGH, NC
























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

BETSY L. WATSON, P.E. TRAFFIC ENGINEER
 GEORGE KARAGEORGE SR. TRANSPORTATION DESIGNER





APPROVED: *Betsy L. Watson*
 DATE: 5/29/12




SEAL
 29449
 NORTH CAROLINA
 PROFESSIONAL
 ENGINEER
 BETSY L. WATSON




LEGEND

-  DIRECTION OF TRAFFIC FLOW
-  DIRECTION OF PEDESTRIAN TRAFFIC FLOW
-  WORK AREA
-  PAVEMENT REMOVAL
-  NORTH ARROW
-  TYPE III BARRICADE
-  CONE
-  DRUM
-  SKINNY DRUM
-  TUBULAR MARKER
-  CHANGEABLE MESSAGE SIGN (CMS)
-  FLAGGER
-  FLASHING ARROW BOARD (TYPE C)
-  LAW ENFORCEMENT
-  TRUCK MOUNTED ATTENUATOR (TMA)
-  PORTABLE CONCRETE BARRIER (PCB)
-  TEMPORARY CRASH CUSHION
-  TEMPORARY SHORING
-  WORK ZONE SIGN-PORTABLE
-  WORK ZONE SIGN-STATIONARY
-  WORK ZONE SIGN-STATIONARY OR PORTABLE

- SIGNALS**
-  EXISTING
 -  PROPOSED
 -  TEMPORARY

- PAVEMENT MARKINGS**
-  EXISTING PAVEMENT MARKING (GRAY)
 -  SKIP LINES
 -  MINI-SKIP LINES
 -  SOLID LINES

- PAVEMENT MARKING SYMBOLS**
-  PAVEMENT MARKING SYMBOLS
 -  EXISTING PAVEMENT MARKING SYMBOLS (HOLLOW)
 -  PAVEMENT MARKING ALPHANUMERIC CHARACTERS

- PAVEMENT MARKERS**
-  CRYSTAL/CRYSTAL
 -  CRYSTAL/RED
 -  YELLOW/YELLOW

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 JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

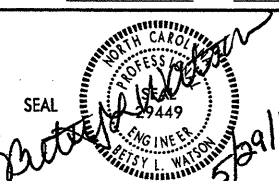

STD. NO.	TITLE
1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUM
1135.01	CONES
1150.01	FLAGGING DEVICES
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - (PERMANENT AND TEMPORARY)

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APPROVED: _____ DATE: _____

LEGEND
&
ROADWAY STANDARD DRAWINGS

GENERAL NOTES

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

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.

LANE CLOSURE TIME RESTRICTIONS

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

ROAD NAME	DAY AND TIME RESTRICTIONS
US 321	6:00 A.M. - 7:00 P.M. MONDAY THRU SUNDAY (EVERYDAY)
NC 268	6:00 A.M. - 9:00 A.M. MONDAY THRU FRIDAY
US 64/NC 18	4:00 P.M. - 7:00 P.M. MONDAY THRU FRIDAY

HOLIDAY & HOLIDAY WEEKEND LANE CLOSURE TIME RESTRICTIONS

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND HOLIDAY WEEKENDS AS FOLLOWS:

- | ROAD NAME |
|-----------|
| ALL ROADS |
- 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 A.M. DECEMBER 31st TO 7:00 P.M. JANUARY 2nd. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY.
 - 3) FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.
 - 4) FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.
 - 5) FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE DAY AFTER INDEPENDENCE DAY. IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY; THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
 - 6) FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.
 - 7) FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 7:00 P.M. MONDAY.
 - 8) FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- C) LANE CLOSURES ARE REQUIRED WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN ANY PORTION OF A TRAVEL LANE. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
 - D) INSTALL ALL LANE CLOSURES ACCORDING TO THE PLANS, ROADWAY STANDARD DRAWINGS (1101.02), OR AS DIRECTED BY THE ENGINEER.
 - E) 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. COVER OR LAY DOWN SIGNS, AND TURN OFF ARROW BOARDS AND MESSAGE BOARDS.
 - F) INSTALL LANE CLOSURES WITH THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE UPSTREAM SIDE OF TRAFFIC. REMOVE LANE CLOSURES AGAINST THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF TRAFFIC.
 - G) UNLESS OTHERWISE SHOWN IN THE PLANS, PLACE ARROW BOARDS ON THE ROADWAY SHOULDER. IF SHOULDERS DO NOT EXIST, PLACE ARROW BOARDS WITHIN THE MERGE TAPER BEHIND THE CHANNELIZING DEVICES OF THE LANE CLOSURE. IF NEEDED, EXTEND LANE CLOSURES TO PROVIDE STOPPING SIGHT DISTANCE TO THE ARROW BOARD (REFER TO ROADWAY STANDARD DRAWING 1101.11 SHEET 2).
 - H) PLACE LANE CLOSURE DRUMS IN TAPERS AT A MAXIMUM SPACING EQUAL IN FEET TO THE POSTED SPEED LIMIT (MPH). ALONG BUFFER SPACES AND WORK AREAS SPACE DRUMS AT A MAXIMUM SPACING EQUAL IN FEET TO TWICE THE POSTED SPEED LIMIT (MPH). IN ALL CASES, CHANNELIZING DEVICES ARE TO BE SPACED IN SUCH A MANNER AS TO POSITIVELY ACHIEVE THE INTENDED VISUAL CHANNELIZATION. CHANNELIZING DEVICES SHOULD BE LATERALLY OFFSET 3 FT INSIDE THE CLOSED LANE AS ROOM PERMITS.
 - I) WHENEVER TAPERS ARE TO BE USED IN CLOSE PROXIMITY TO AN INTERCHANGE RAMP, CROSSROADS, CURVES, OR OTHER INFLUENCING FACTORS, THE LENGTH OF THE STANDARD TAPERS MAY BE ADJUSTED.
- ### TEMPORARY TRAFFIC CONTROL DEVICES
- J) WHEN LANE CLOSURES ARE NOT IN EFFECT, PLACE CHANNELIZING DEVICES ALONG WORK AREAS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH). USE A 10 FT SPACING IN RADII OR WHEN THEY ARE USED TO CLOSE A DRIVEWAY OR ROADWAY. IN ALL CASES, CHANNELIZING DEVICES ARE TO BE SPACED IN SUCH A MANNER AS TO POSITIVELY ACHIEVE THE INTENDED VISUAL CHANNELIZATION.
 - K) WHEN SKINNY DRUMS ARE ALLOWED, REFER TO SECTION 1180 OF STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES OR AS SHOWN IN THE PLANS.
 - L) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS IN THE LANE(S) THAT ARE CLOSED TO TRAFFIC.
 - M) DO NOT INSTALL SIGNS OR OTHER DEVICES ON OR PARTIALLY BLOCKING SIDEWALKS OR ANY OTHER FACILITIES OPEN TO PEDESTRIANS.
 - N) CHANGEABLE MESSAGE SIGN MESSAGES SHOWN ARE EXAMPLES. OTHER MESSAGES MAY BE USED AS CONDITIONS WARRANT. ALL MESSAGES AND LOCATIONS MUST BE APPROVED BY THE ENGINEER PRIOR TO INCORPORATING.

PAVEMENT MARKINGS AND MARKERS

O) UPON COMPLETION OF ALL OTHER CONSTRUCTION OPERATIONS INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME	MARKING	PAVEMENT MARKER
ALL ROADS	POLYUREA (SEE NOTE BELOW)	SNOWFLOWABLE

P) FOR PAVEMENT MARKING SYMBOLS, ALPHANUMERIC CHARACTERS, DIAGONAL LINES AND STOP BARS USE THE FOLLOWING TYPE OF MARKING:

ON ASPHALT PAVEMENTS

1. THERMOPLASTIC HEATED IN PLACE, OR
2. THERMOPLASTIC EXTRUDED.

ON CONCRETE PAVEMENTS


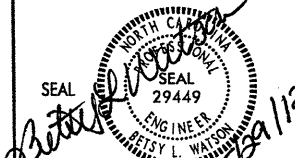

1. COLD APPLIED PLASTIC (TYPE 2)
2. THERMOPLASTIC HEATED IN PLACE (OPTIONAL)

Q) DO NOT USE POLYUREA MARKING ON TYPE S9.5A SURFACE COURSE.

MISCELLANEOUS

- R) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER. LOCATIONS SHOWN IN THE PLANS ARE APPROXIMATE AND MAY BE REVISED AS THE OFFICER OR THE ENGINEER DEEM NECESSARY.
- S) ALL DIMENSIONS AND STATIONS IN THE TRAFFIC MANAGEMENT PLAN AND PHASING ARE APPROXIMATE (+/-); FIELD ADJUST AS NECESSARY OR AS DIRECTED BY THE ENGINEER.
- T) ENSURE THE OVERSIZE/OVERWEIGHT PERMIT UNIT (919) 733-4740 HAS BEEN ADVISED OF THE ONGOING TRAFFIC OPERATIONS THROUGH THE DIVISION OFFICE.

5/29/2012
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 Stantec	Stantec Consulting Services Inc. 801 Jones Franklin Road Suite 300 Raleigh, NC 27606 Tel. (919) 851-6868 Fax. (919) 851-7024 www.stantec.com License No. F-0872	APPROVED: _____ DATE: _____ 		<h2 style="margin: 0;">GENERAL NOTES</h2>
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PHASING

CALDWELL CO. BRIDGE #8

PERFORM BRIDGE WORK USING FLAGGER CONTROLLED LANE CLOSURES PER ROADWAY STANDARD DRAWING 1101.02 SHEET 1 OF 15.

CALDWELL CO. BRIDGE #13

PERFORM BRIDGE WORK USING LEFT AND RIGHT LANE CLOSURES PER SHEETS TMP-4,5.


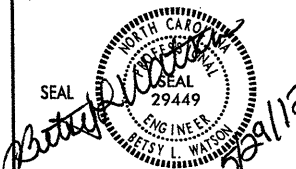

CALDWELL CO. BRIDGE #14

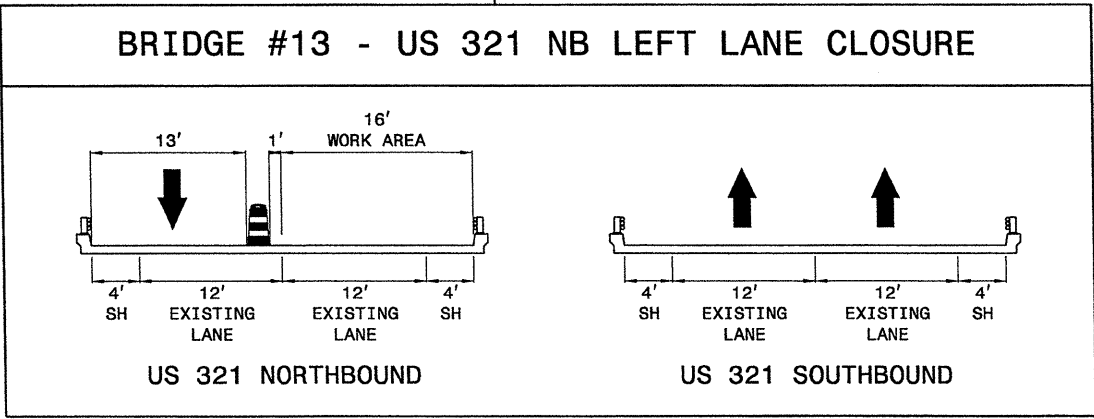
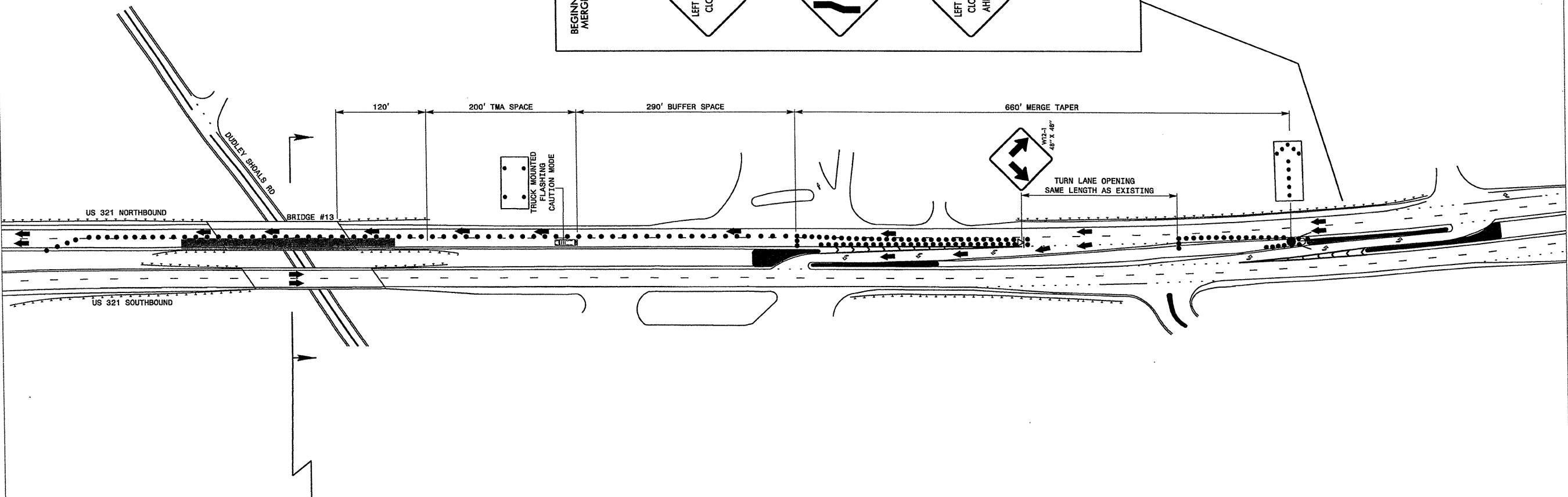
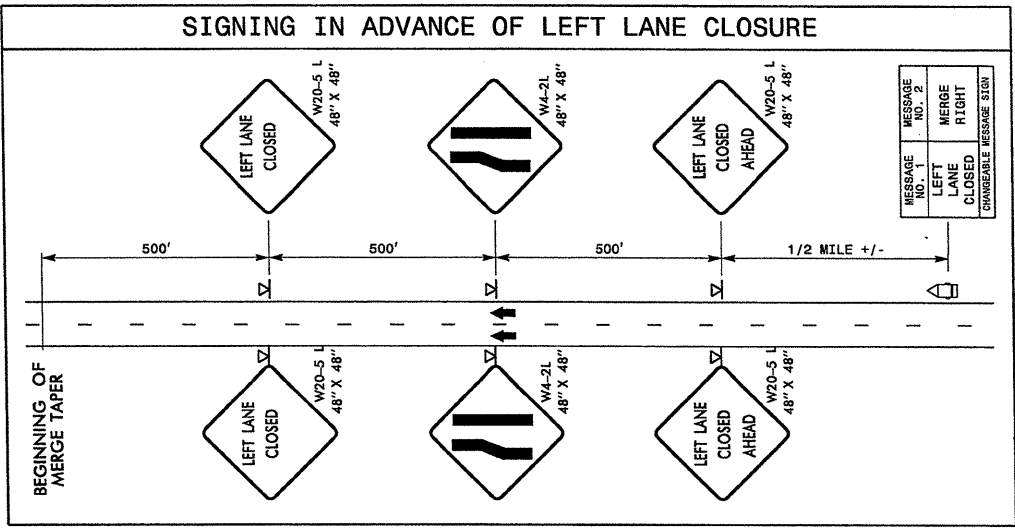
PERFORM BRIDGE WORK USING LEFT AND RIGHT LANE CLOSURES PER ROADWAY STANDARD DRAWING 1101.02 SHEET 3 OF 15.

WILKES CO. BRIDGE #56

PERFORM BRIDGE WORK USING FLAGGER CONTROLLED LANE CLOSURES. REFER TO ROADWAY STANDARD DRAWING 1101.02 SHEET 1 OF 15.

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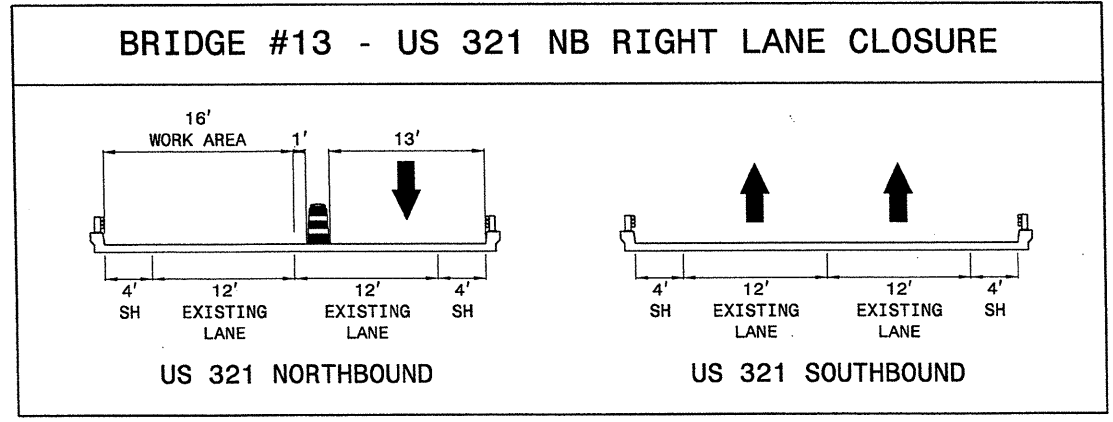
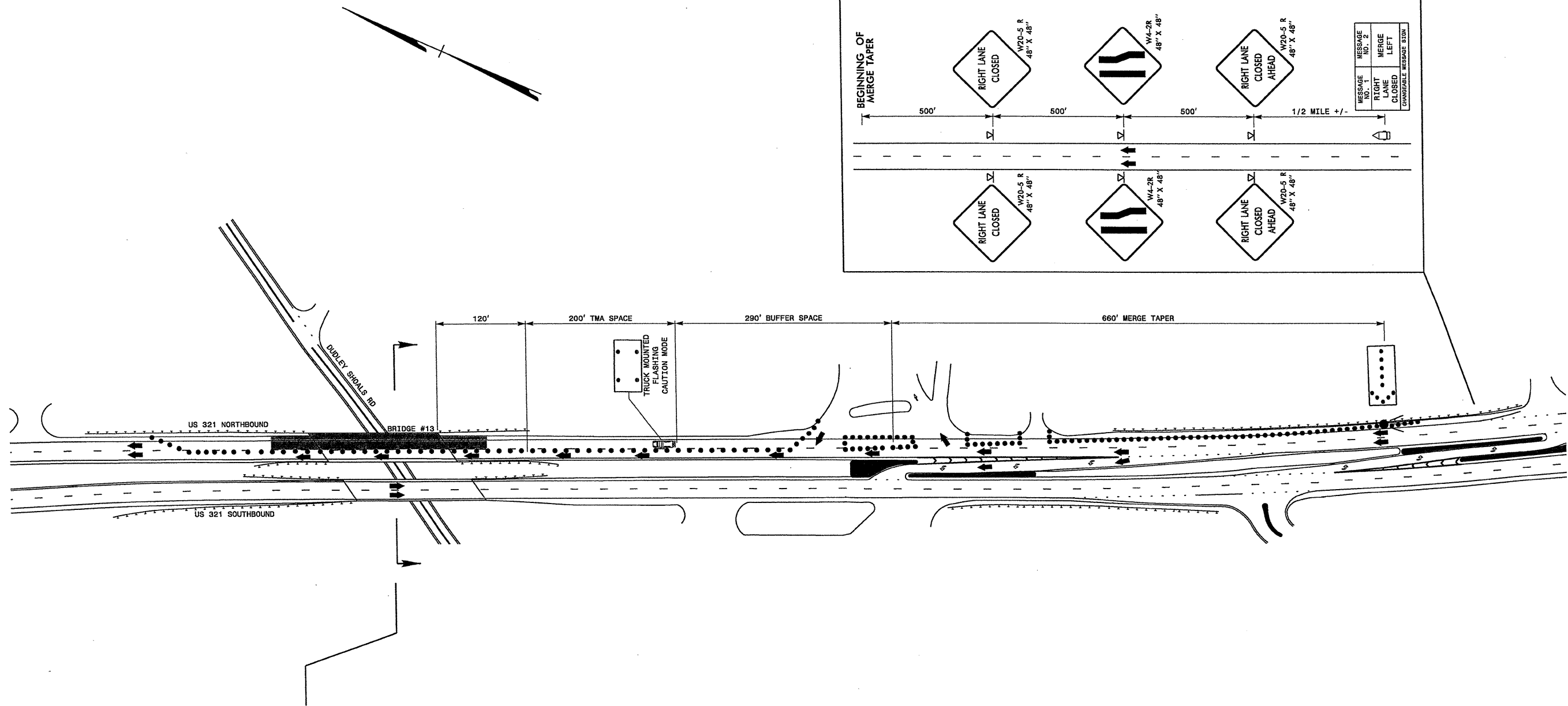
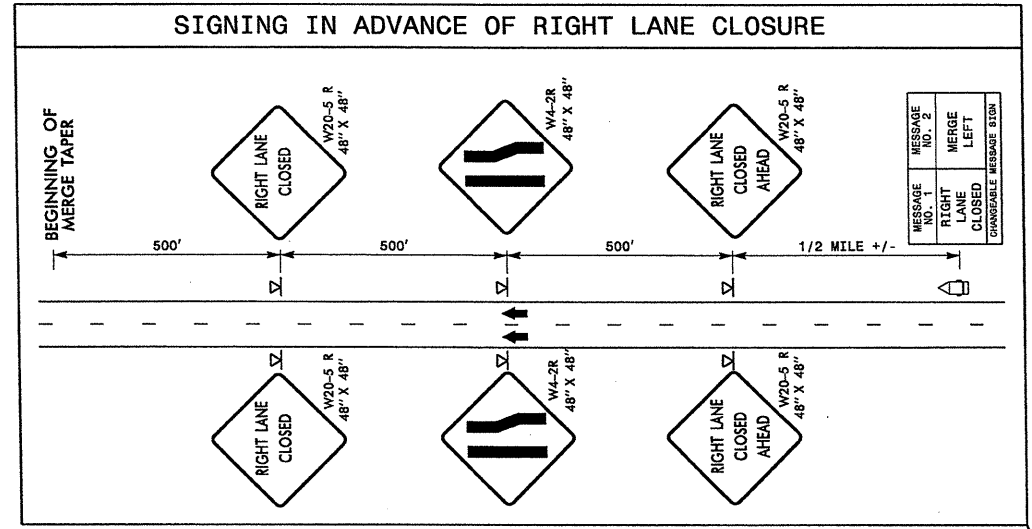
APPROVED: _____ DATE: _____

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

CALDWELL CO. BRIDGE #13

**US 321 NORTHBOUND
LEFT LANE WORK AREA**

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<p>Stantec Consulting Services Inc. 801 Jones Franklin Road Suite 300 Raleigh, NC 27606 Tel. (919) 851-6866 Fax. (919) 851-7024 www.stantec.com License No. F-0672</p>	APPROVED: _____ DATE: _____ 	<p>DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL</p>	CALDWELL CO. BRIDGE #13 US 321 NORTHBOUND RIGHT LANE WORK AREA

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STANDARD NOTES

DESIGN DATA:

SPECIFICATIONS	-----	A.A.S.H.T.O. (CURRENT)
LIVE LOAD	-----	SEE PLANS
IMPACT ALLOWANCE	-----	SEE A.A.S.H.T.O.
STRESS IN EXTREME FIBER OF		
STRUCTURAL STEEL - AASHTO M270 GRADE 36	-	20,000 LBS. PER SQ. IN.
- AASHTO M270 GRADE 50W	-	27,000 LBS. PER SQ. IN.
- AASHTO M270 GRADE 50	-	27,000 LBS. PER SQ. IN.
REINFORCING STEEL IN TENSION		
GRADE 60	--	24,000 LBS. PER SQ. IN.
CONCRETE IN COMPRESSION	-----	1,200 LBS. PER SQ. IN.
CONCRETE IN SHEAR	-----	SEE A.A.S.H.T.O.
STRUCTURAL TIMBER - TREATED OR		
UNTREATED - EXTREME FIBER STRESS	-----	1,800 LBS. PER SQ. IN.
COMPRESSION PERPENDICULAR TO GRAIN OF TIMBER	-----	375 LBS. PER SQ. IN.
EQUIVALENT FLUID PRESSURE OF EARTH	-----	30 LBS. PER CU. FT. (MINIMUM)

MATERIAL AND WORKMANSHIP:

EXCEPT AS MAY OTHERWISE BE SPECIFIED ON PLANS OR IN THE SPECIAL PROVISIONS, ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE 2006 "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" OF THE N.C. DEPARTMENT OF TRANSPORTATION.

STEEL SHEET PILING FOR PERMANENT OR TEMPORARY APPLICATIONS SHALL BE HOT ROLLED.

CONCRETE:

UNLESS OTHERWISE REQUIRED ON PLANS, CLASS A CONCRETE SHALL BE USED FOR ALL PORTIONS OF ALL STRUCTURES WITH THE EXCEPTION THAT: CLASS AA CONCRETE SHALL BE USED IN BRIDGE SUPERSTRUCTURES, ABUTMENT BACKWALLS, AND APPROACH SLABS; AND CLASS B CONCRETE SHALL BE USED FOR SLOPE PROTECTION AND RIP RAP.

CONCRETE CHAMFERS:

UNLESS OTHERWISE NOTED ON THE PLANS, ALL EXPOSED CORNERS ON STRUCTURES SHALL BE CHAMFERED 3/4" WITH THE FOLLOWING EXCEPTIONS: TOP CORNERS OF CURBS MAY BE ROUNDED TO 1-1/2" RADIUS WHICH IS BUILT INTO CURB FORMS; CORNERS OF TRANSVERSE FLOOR EXPANSION JOINTS SHALL BE ROUNDED WITH A 1/4" FINISHING TOOL UNLESS OTHERWISE REQUIRED ON PLANS; AND CORNERS OF EXPANSION JOINTS IN THE ROADWAY FACES AND TOPS OF CURBS AND SIDEWALKS SHALL BE ROUNDED TO A 1/4" RADIUS WITH A FINISHING STONE OR TOOL UNLESS OTHERWISE REQUIRED ON PLANS.

DOWELS:

DOWELS WHEN INDICATED ON PLANS AS FOR CULVERT EXTENSIONS, SHALL BE EMBEDDED AT LEAST 12" INTO THE OLD CONCRETE AND GROUTED INTO PLACE WITH 1:2 CEMENT MORTAR.

ALLOWANCE FOR DEAD LOAD DEFLECTION, SETTLEMENT, ETC. IN CASTING SUPERSTRUCTURES:

BRIDGES SHALL BE BUILT ON THE GRADE OR VERTICAL CURVE SHOWN ON PLANS. SLABS, CURBS AND PARAPETS SHALL CONFORM TO THE GRADE OR CURVE.

ALL DIMENSIONS WHICH ARE GIVEN IN SECTION AND ARE AFFECTED BY DEAD LOAD DEFLECTIONS ARE DIMENSIONS AT CENTER LINE OF BEARING UNLESS OTHERWISE NOTED ON PLANS. IN SETTING FORMS FOR STEEL BEAM BRIDGES AND PRESTRESSED CONCRETE GIRDER BRIDGES, ADJUSTMENTS SHALL BE MADE DUE TO THE DEAD LOAD DEFLECTIONS FOR THE ELEVATIONS SHOWN. WHERE BLOCKS ARE SHOWN OVER BEAMS FOR BUILDING UP TO THE SLAB, THE VERTICAL DIMENSIONS OF THE BLOCKS SHALL BE ADJUSTED BETWEEN BEARINGS TO COMPENSATE FOR DEAD LOAD DEFLECTIONS, VERTICAL CURVE ORDINATE, AND ACTUAL BEAM CAMBER. WHERE BOTTOM OF SLAB IS IN LINE WITH BOTTOM OF TOP FLANGES, DEPTH OF SLAB BETWEEN BEARINGS SHALL BE ADJUSTED TO COMPENSATE FOR DEAD LOAD DEFLECTION, VERTICAL CURVE ORDINATE, AND ACTUAL BEAM CAMBER.

IN SETTING FALSEWORK AND FORMS FOR REINFORCED CONCRETE SPANS, AN ALLOWANCE SHALL BE MADE FOR DEAD LOAD DEFLECTIONS, SETTLEMENT OF FALSEWORK, AND PERMANENT CAMBER WHICH SHALL BE PROVIDED FOR IN ADDITION TO THE ELEVATIONS SHOWN. AFTER REMOVAL OF THE FALSEWORK, THE FINISHED STRUCTURES SHALL CONFORM TO THE PROFILE AND ELEVATIONS SHOWN ON THE PLANS AND CONSTRUCTION ELEVATIONS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR FALSEWORK OR FORMS FOR BRIDGE SUPERSTRUCTURE AND ANY STRUCTURE OR PARTS OF A STRUCTURE AS NOTED ON THE PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE CONSTRUCTION OF THE FALSEWORK OR FORMS IS STARTED.

REINFORCING STEEL:

ALL REINFORCING STEEL SHALL BE DEFORMED. DIMENSIONS RELATIVE TO PLACEMENT OF REINFORCING ARE TO CENTERS OF BARS UNLESS OTHERWISE INDICATED IN THE PLANS. DIMENSIONS ON BAR DETAILS ARE TO CENTERS OF BARS OR ARE OUT TO OUT AS INDICATED ON PLANS.

WIRE BAR SUPPORTS SHALL BE PROVIDED FOR REINFORCING STEEL WHERE INDICATED ON THE PLANS. WHEN BAR SUPPORT PIECES ARE PLACED IN CONTINUOUS LINES, THEY SHALL BE SO PLACED THAT THE ENDS OF THE SUPPORTING WIRES SHALL BE LAPPED TO LOCK LEGS ON ADJOINING PIECES.

STRUCTURAL STEEL:

AT THE CONTRACTOR'S OPTION, HE MAY SUBSTITUTE 7/8" Ø SHEAR STUDS FOR THE 3/4" Ø STUDS SPECIFIED ON THE PLANS. THIS SUBSTITUTION SHALL BE MADE AT THE RATE OF 3 - 7/8" Ø STUDS FOR 4 - 3/4" Ø STUDS, AND STUD SPACING CHANGES SHALL BE MADE AS NECESSARY TO PROVIDE THE SAME EQUIVALENT NUMBER OF 7/8" Ø STUDS ALONG THE BEAM AS SHOWN FOR 3/4" Ø STUDS BASED ON THE RATIO OF 3 - 7/8" Ø STUDS FOR 4 - 3/4" Ø STUDS. STUDS OF THE LENGTH SPECIFIED ON THE PLANS MUST BE PROVIDED. THE MAXIMUM SPACING SHALL BE 2'-0".

EXCEPT AT THE INTERIOR SUPPORTS OF CONTINUOUS BEAMS WHERE THE COVER PLATE IS IN CONTACT WITH BEARING PLATE, THE CONTRACTOR MAY, AT HIS OPTION, SUBSTITUTE FOR THE COVER PLATES DESIGNATED ON THE PLANS COVER PLATES OF THE EQUIVALENT AREA PROVIDED THESE PLATES ARE AT LEAST 5/16" IN THICKNESS AND DO NOT EXCEED A WIDTH EQUAL TO THE FLANGE WIDTH LESS 2" OR A THICKNESS EQUAL TO 2 TIMES THE FLANGE THICKNESS. THE SIZE OF FILLET WELDS SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT ANSI/AASHTO/AWS "BRIDGE WELDING CODE". ELECTROSLAG WELDING WILL NOT BE PERMITTED.

WITH THE SOLE EXCEPTION OF EDGES AT SURFACES WHICH BEAR ON OTHER SURFACES, ALL SHARP EDGES AND ENDS OF SHAPES AND PLATES SHALL BE SLIGHTLY ROUNDED BY SUITABLE MEANS TO A RADIUS OF APPROXIMATELY 1/16 INCH OR EQUIVALENT FLAT SURFACE AT A SUITABLE ANGLE PRIOR TO PAINTING, GALVANIZING, OR METALLIZING.

HANDRAILS AND POSTS:

METAL STANDARDS AND FACES OF THE CONCRETE END POSTS FOR THE METAL RAIL SHALL BE SET NORMAL TO THE GRADE OF THE CURB, UNLESS OTHERWISE SHOWN ON PLANS. THE METAL RAIL AND TOPS OF CONCRETE POSTS USED WITH THE ALUMINUM RAIL SHALL BE BUILT PARALLEL TO THE GRADE OF THE CURB.

METAL HANDRAILS SHALL BE IN ACCORDANCE WITH THE PLANS. RAILS SHALL BE AS MANUFACTURED FOR BRIDGE RAILING. CASTINGS SHALL BE OF A UNIFORM APPEARANCE. FINIS AND OTHER DEFORMATIONS RESULTING FROM CASTING OR OTHERWISE SHALL BE REMOVED IN A MANNER SO THAT A UNIFORM COLORING OF THE COMPLETED CASTING SHALL BE OBTAINED. CASTINGS WITH DISCOLORATIONS OR OF NON-UNIFORM COLORING WILL NOT BE ACCEPTED. CERTIFIED MILL REPORTS ARE REQUIRED FOR METAL RAILS AND POSTS.

SPECIAL NOTES:

GENERALLY, IN CASE OF DISCREPANCY, THIS STANDARD SHEET OF NOTES SHALL GOVERN OVER THE SPECIFICATIONS, BUT THE REMAINDER OF THE PLANS SHALL GOVERN OVER NOTES HEREON, AND SPECIAL PROVISIONS SHALL GOVERN OVER ALL. SEE SPECIFICATIONS ARTICLE 105-4.

ENGLISH

JANUARY, 1990

STD. NO. SN