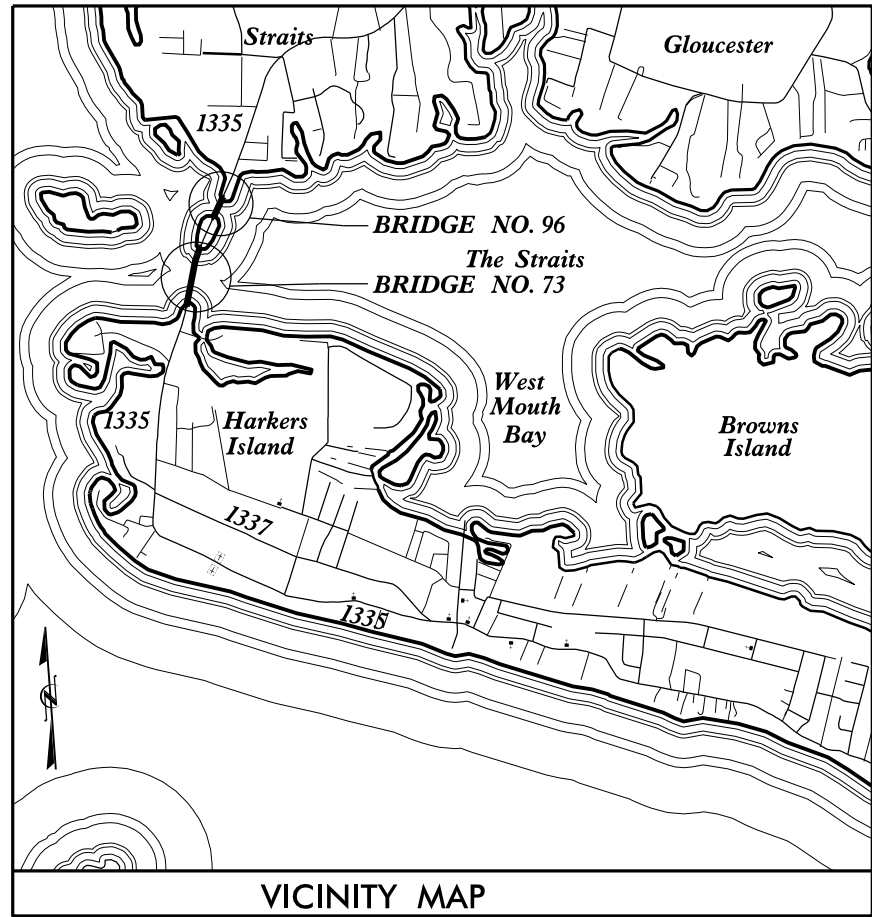


TIP PROJECT: 17BP.2.P.8

CONTRACT:



CARTERET COUNTY

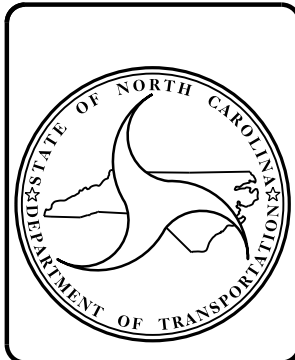
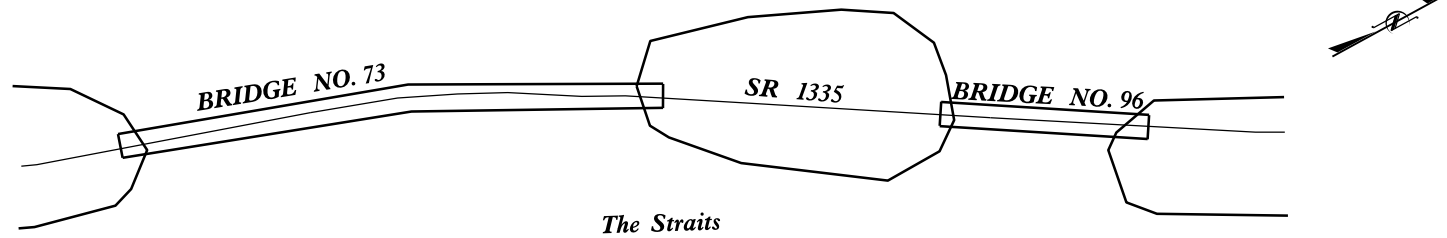
**LOCATION: BRIDGES NO. 96 & 73 ON SR 1335
OVER THE STRAITS @
HARKERS ISLAND**

**TYPE OF WORK: BRIDGE PRESERVATION,
REPAIR OF EXISTING
SUPERSTRUCTURE**



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	17BP.2.P.8	1	
STATE PROJECT NO.	F.A. PROJ. NO.	DESCRIPTION	
17BP.2.P.8		PE	
17BP.2.P.8		CONST.	



DESIGN DATA

PROJECT LENGTH

WETHERILL ENGINEERING

Prepared for the North Carolina Department of Transportation in the Office of:
559 JONES FRANKLIN ROAD
SUITE 104
RALEIGH, N.C. 27606
BUS: 919 851 8077
FAX: 919 851 8077
LICENSE NO. F-40377

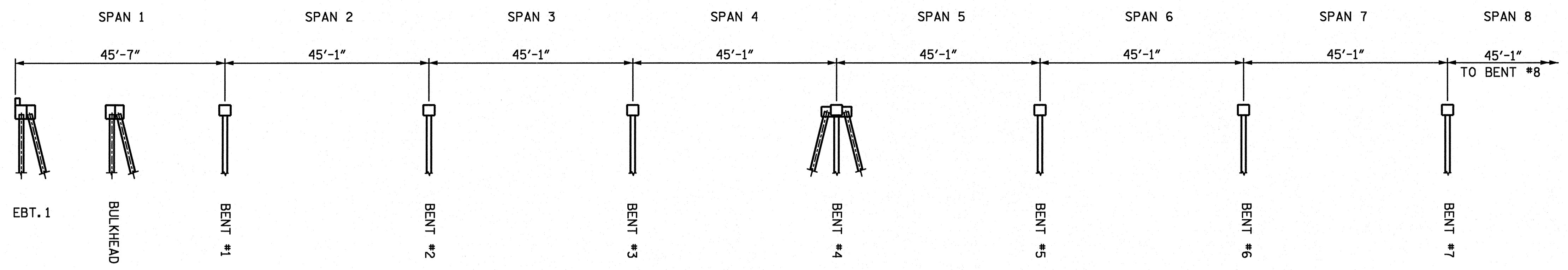
2012 STANDARD SPECIFICATIONS

LETTING DATE:
6-19-12

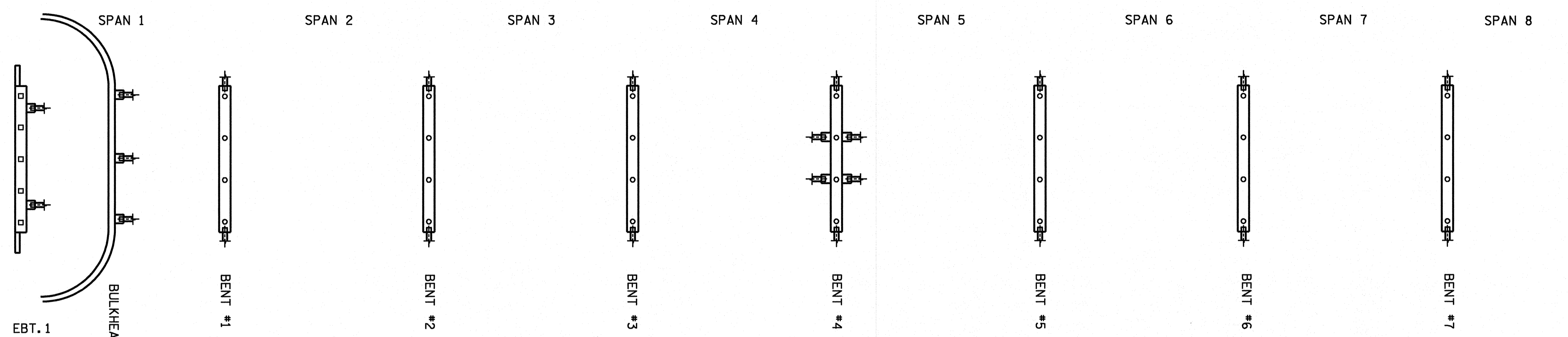
EDWARD G. WETHERILL, PE
PROJECT ENGINEER

THEO BEACH, PE
STRUCTURE MANAGEMENT UNIT
PROJECT MANAGER

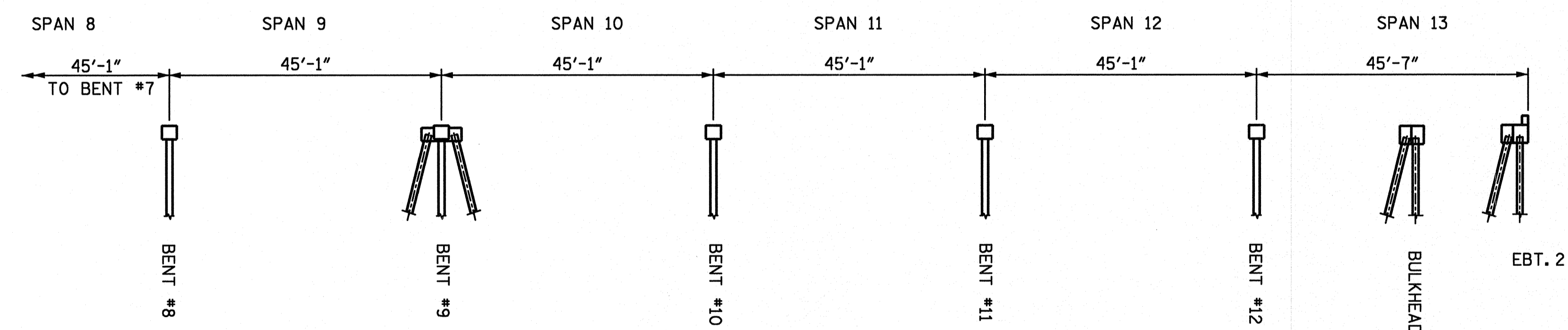
NORTH CAROLINA
PROFESSIONAL
SEAL
24390
THEO J. BEACH
4-5-12



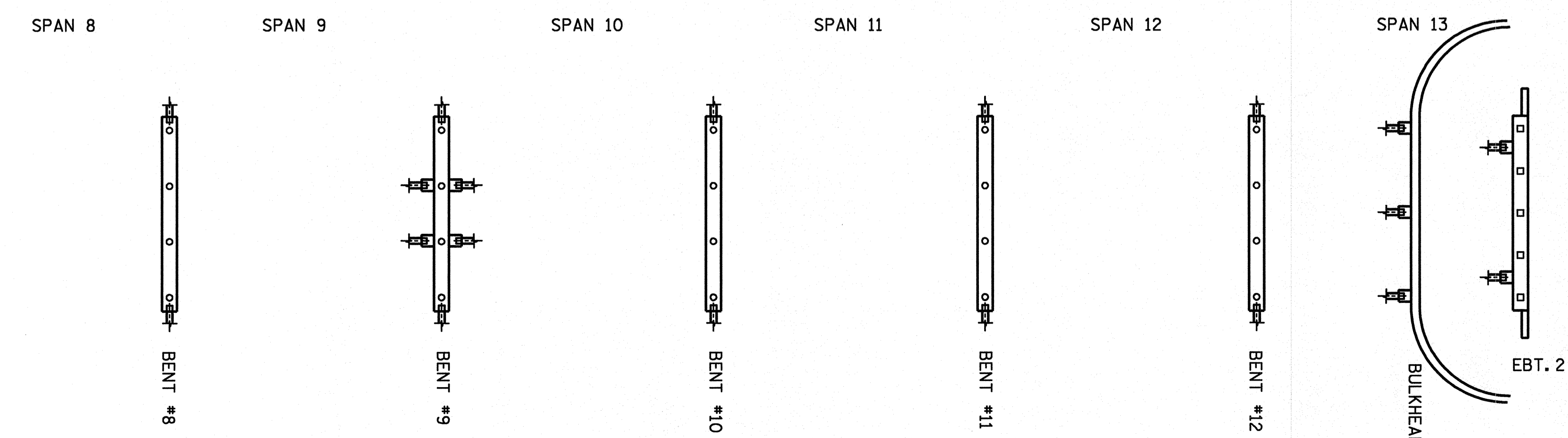
PROFILE OF BRIDGE



PLAN OF BRIDGE



PROFILE OF BRIDGE

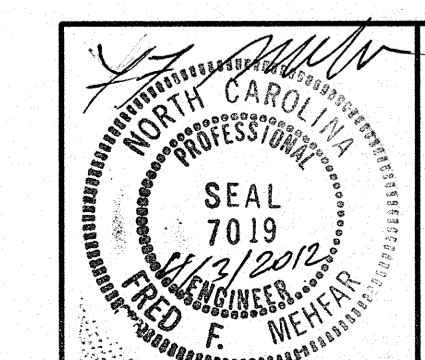


PLAN OF BRIDGE

BILL OF MATERIAL - BRIDGE NO. 96			
	MOBILIZATION	SHOTCRETE REPAIRS	EPOXY MORTAR REPAIRS
UNIT	LUMP SUM	CUBIC FEET	SQUARE FEET
TOTAL	LUMP SUM	605	360

PROJECT NO. 17BP.2.P.8
CARTERET COUNTY
 STATION: _____
 BRIDGE NO. 96

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
PLAN & PROFILE OF BRIDGE #96 TO HARKERS ISLAND OVER THE STRAITS					
REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
					TOTAL SHEETS 6



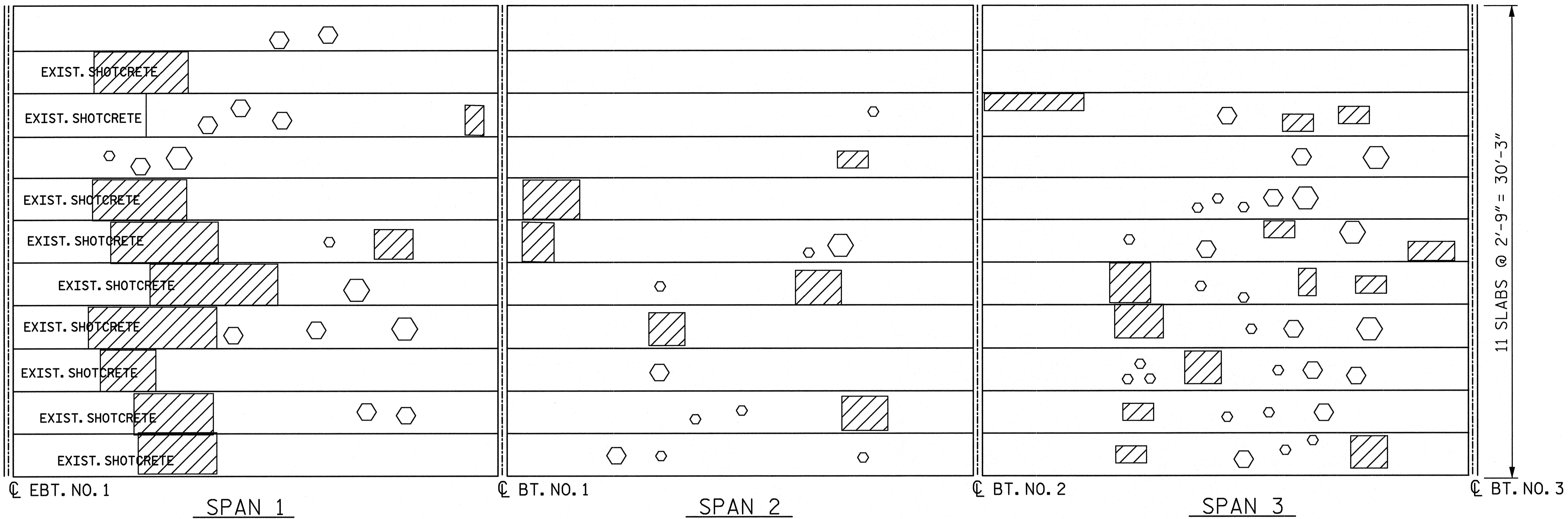
559 Jones Franklin Rd. Suite 164
 Raleigh, N.C. 27606
 Bus: 919 851 8077
 Fax: 919 851 8107
 License: F-0377

ETHERILL ENGINEERING

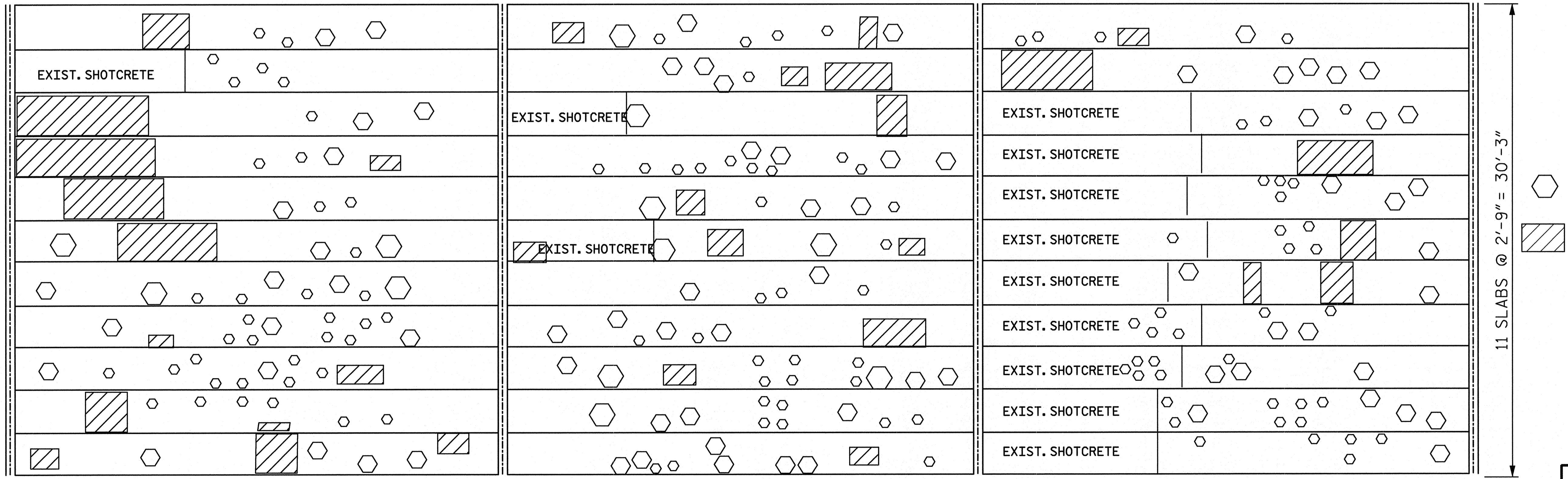
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

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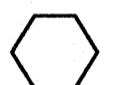
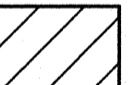
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 CHECKED BY : T. ROUNTREE DATE : 2/12



☉ EBT. NO. 1 SPAN 1 ☉ BT. NO. 1 SPAN 2 ☉ BT. NO. 2 SPAN 3 ☉ BT. NO. 3




☉ BT. NO. 3 SPAN 4 ☉ BT. NO. 4 SPAN 5 ☉ BT. NO. 5 SPAN 6 ☉ BT. NO. 6

 AREAS TO RECEIVE EPOXY MORTAR
 DAMAGED AREAS TO RECEIVE SHOTCRETE
 EXISTING SHOTCRETE TO BE REMOVED AND NEW SHOTCRETE IS TO BE APPLIED IN THESE AREAS.

PROJECT NO. 17BP.2.P.8
CARTERET COUNTY
 STATION: _____
 BRIDGE NO. 96

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
UNDER DECK REPAIR LOCATIONS					
SHEET NO. S-2					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
					TOTAL SHEETS 6

NORTH CAROLINA
 PROFESSIONAL ENGINEER
 SEAL
 7019
 FRED E. MEYER

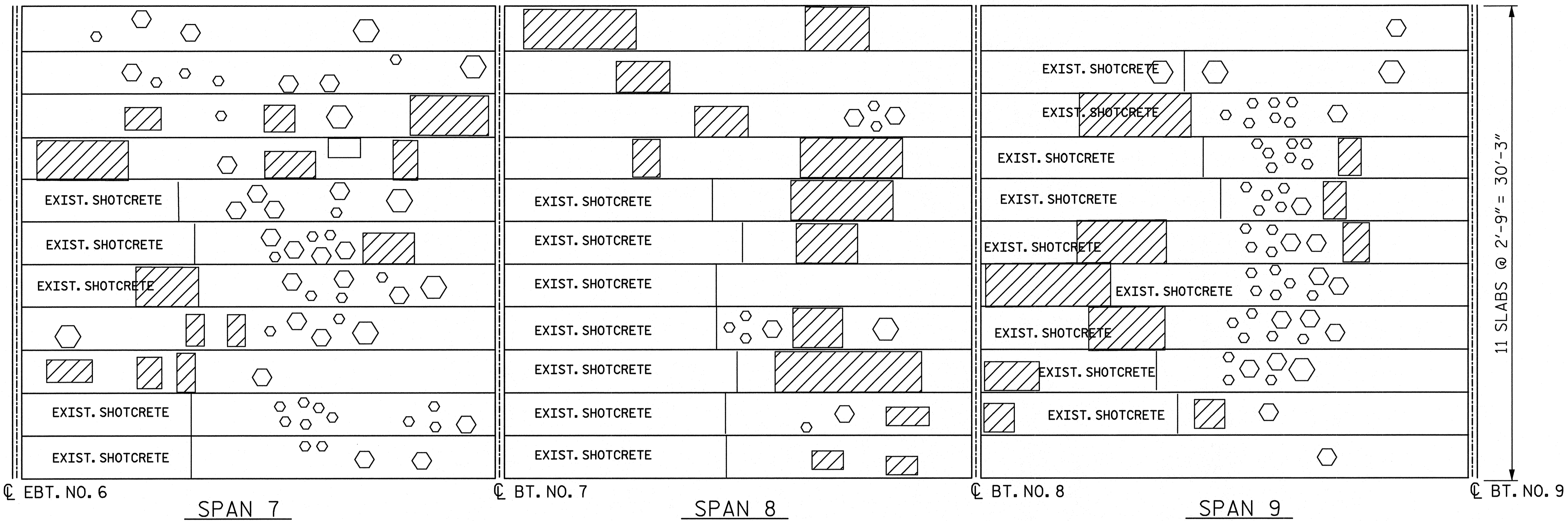


559 Jones Franklin Rd. Suite 164
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 Fax: 919 851 8107
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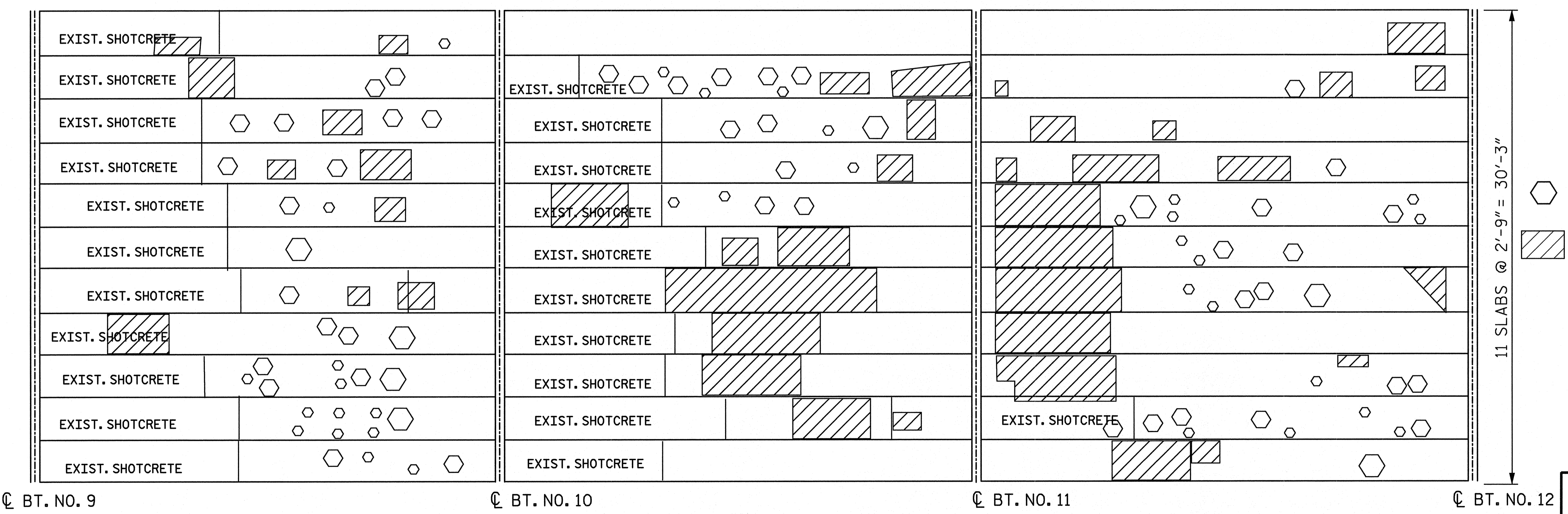
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

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 4/3/2012 2:14:55 PM



DRAWN BY : J. PENDERGRAFT DATE : 2/12
 CHECKED BY : T. ROUNTREE DATE : 2/12



11 SLABS @ 2'-9" = 30'-3"



11 SLABS @ 2'-9" = 30'-3"

 AREAS TO RECEIVE EPOXY MORTAR
 DAMAGED AREAS TO RECEIVE SHOTCRETE
 EXISTING SHOTCRETE TO BE REMOVED AND NEW SHOTCRETE IS TO BE APPLIED IN THESE AREAS.

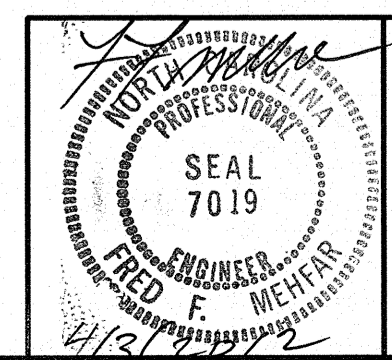
PROJECT NO. 17BP.2.P.8
CARTERET COUNTY
 STATION: _____
 BRIDGE NO. 96


STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 UNDER DECK
 REPAIR LOCATIONS

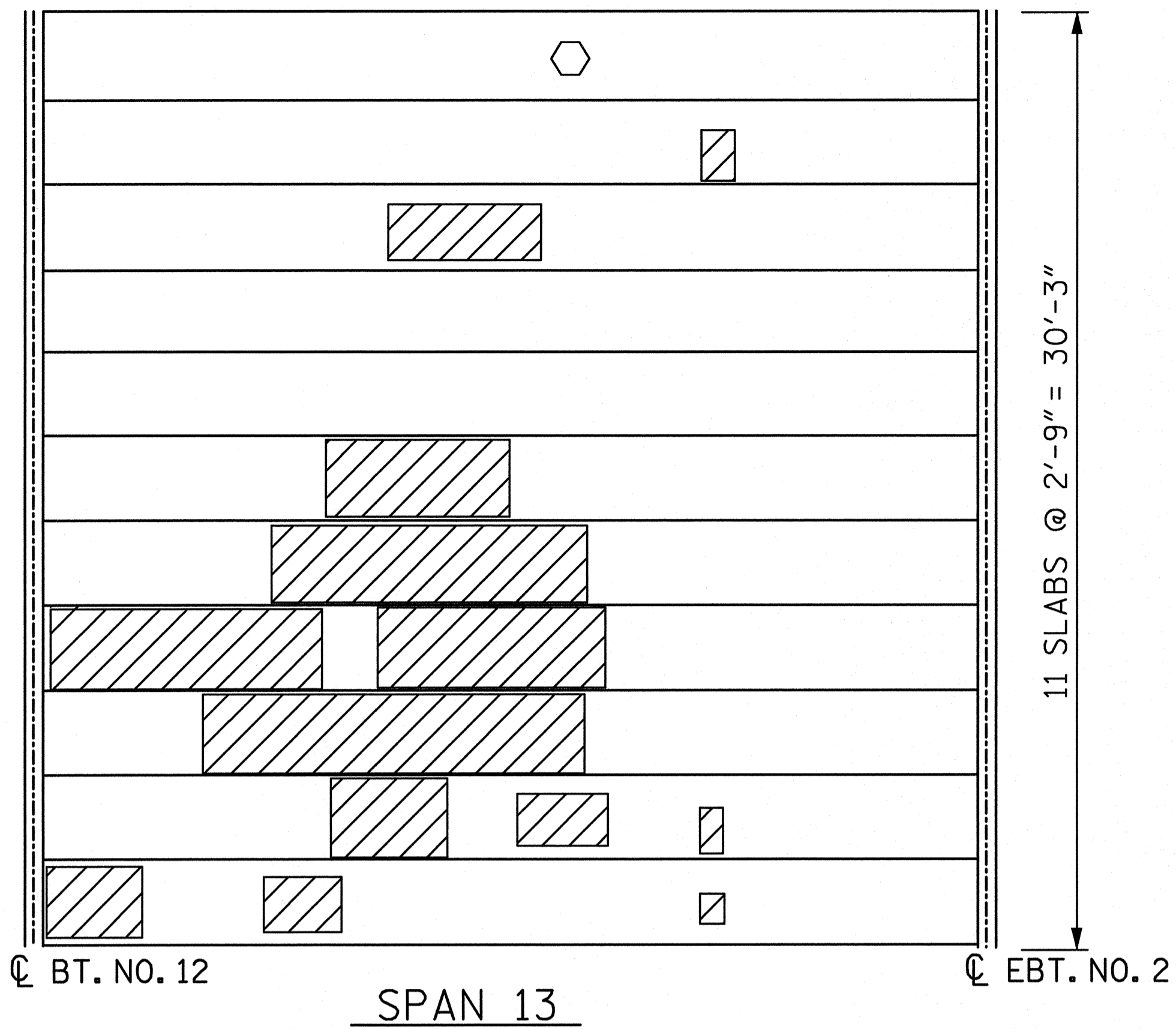
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NO.	BY:	DATE:	NO.	BY:	DATE:	
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2			4			

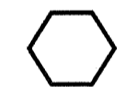
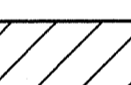
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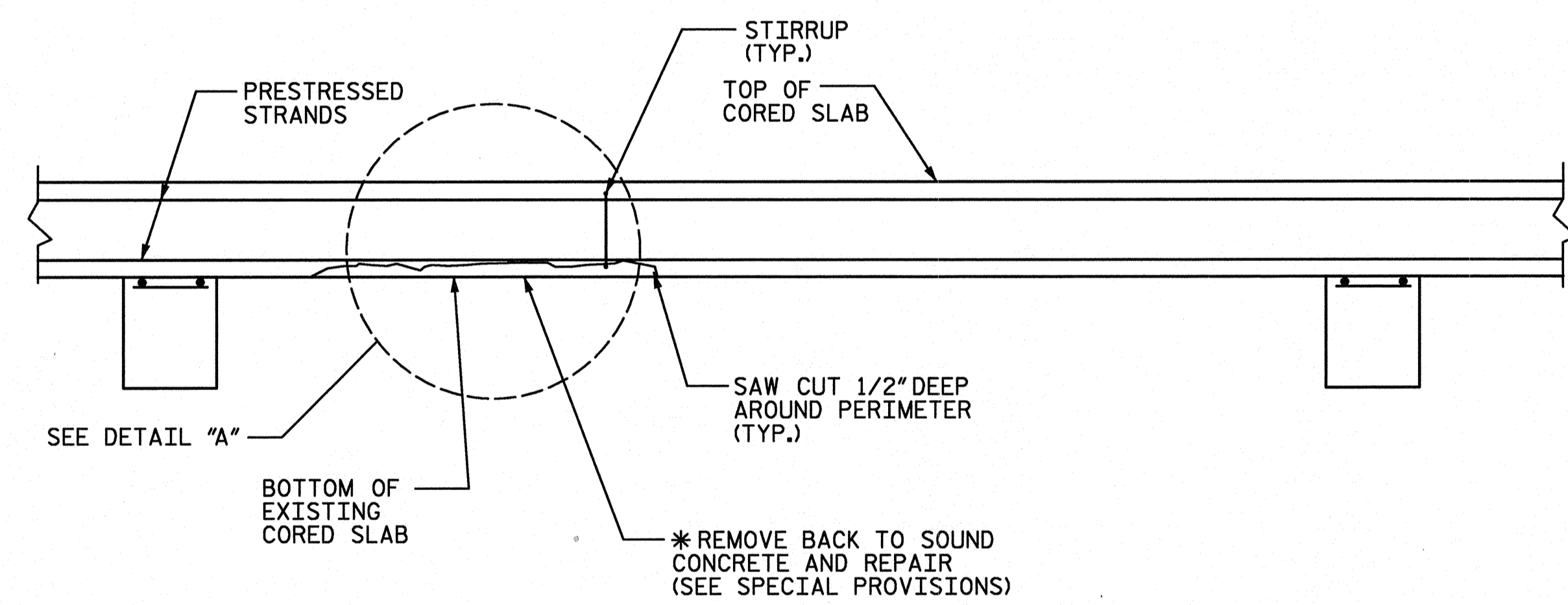
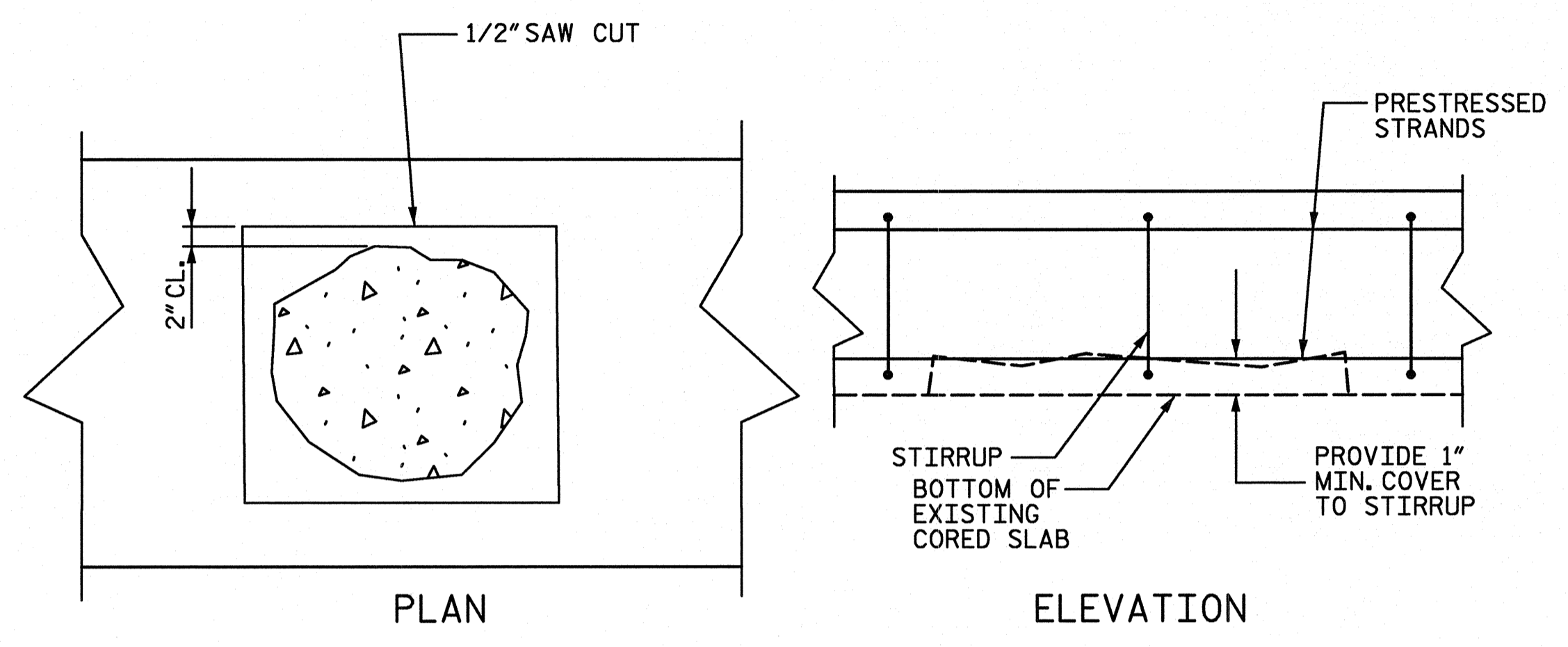
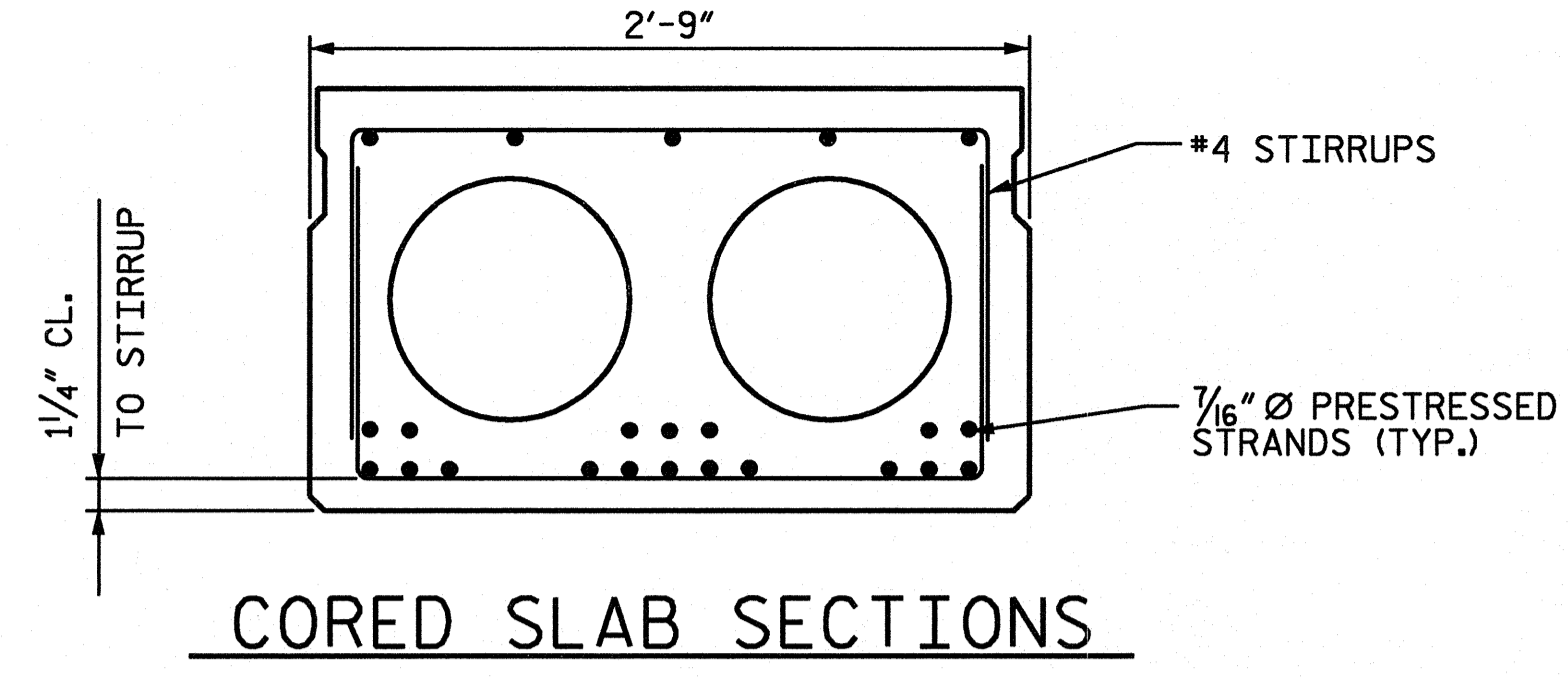
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 CHECKED BY : T. ROUNTREE DATE : 2/12



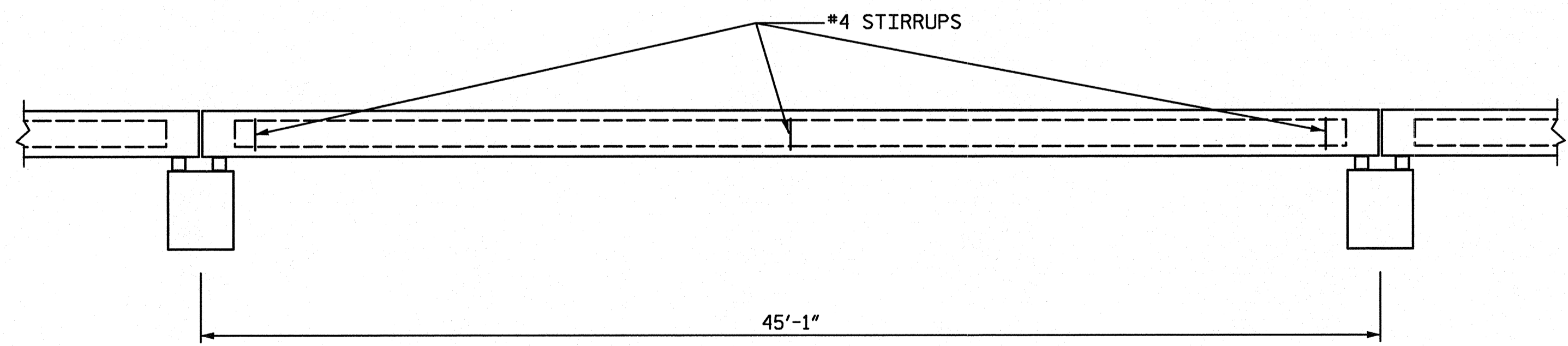

 559 Jones Franklin Rd. Suite 164
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 TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION



 AREAS TO RECEIVE EPOXY MORTAR
 DAMAGED AREAS TO RECEIVE SHOTCRETE



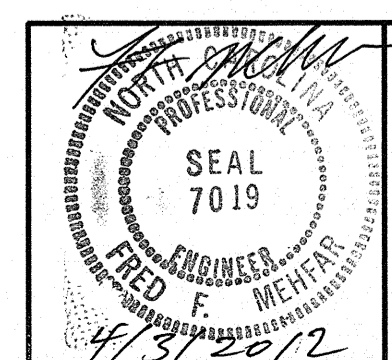
TYPICAL DETAIL FOR SHOTCRETE AREAS
* CARE TO BE TAKEN TO AVOID DAMAGE TO PRESTRESSED STRANDS



- NOTES:**
1. DAMAGED CONCRETE LOCATIONS AND QUANTITIES ARE APPROXIMATE.
 2. REPAIR MATERIAL WILL BE SHOTCRETE OR EPOXY MORTAR MATERIAL. FOR LARGE AREAS OF REPAIR WORK USE SHOTCRETE REPAIR. FOR SMALL AREAS OF REPAIR, CONSIDERATION SHOULD BE GIVEN TO USING EPOXY MORTAR REPAIR. THE ENGINEER SHALL DETERMINE THE APPROPRIATE REPAIR PROCEDURE.
 3. FOR "SHOTCRETE REPAIRS", SEE SPECIAL PROVISIONS.
 4. FOR "EPOXY MORTAR REPAIR", SEE SPECIAL PROVISIONS.
 5. FOR "SUBMITAL OF WORKING DRAWINGS", SEE SPECIAL PROVISIONS.
 6. FOR "FORMWORK AND FALSEWORK" SEE SPECIAL PROVISIONS.
 7. FOR "CRANE SAFETY" SEE SPECIAL PROVISIONS.
 8. EXISTING SHOTCRETE IN THE AREAS SHOWN ON THE PLANS SHALL BE REMOVED AND NEW SHOTCRETE APPLIED.
 9. EXISTING SHOTCRETE IN THE AREAS SHOWN ON THE PLANS SHALL BE REMOVED AND NEW SHOTCRETE APPLIED.
 10. FOR "SECURING OF VESSELS", SEE SPECIAL PROVISIONS.
 11. REMOVAL OF THE PORTIONS UNDER DECK SHALL BE PERFORMED SO AS NOT TO ALLOW DEBRIS TO FALL INTO THE WATER. THE CONTRACTOR SHALL SUBMIT PLANS FOR DEMOLITION IN ACCORDANCE WITH ARTICLE 402-2 (C) OF STANDARD SPECIFICATIONS.

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DRAWN BY : J. PENDERGRAFT DATE : 2/12
 CHECKED BY : T. ROUNTREE DATE : 2/12

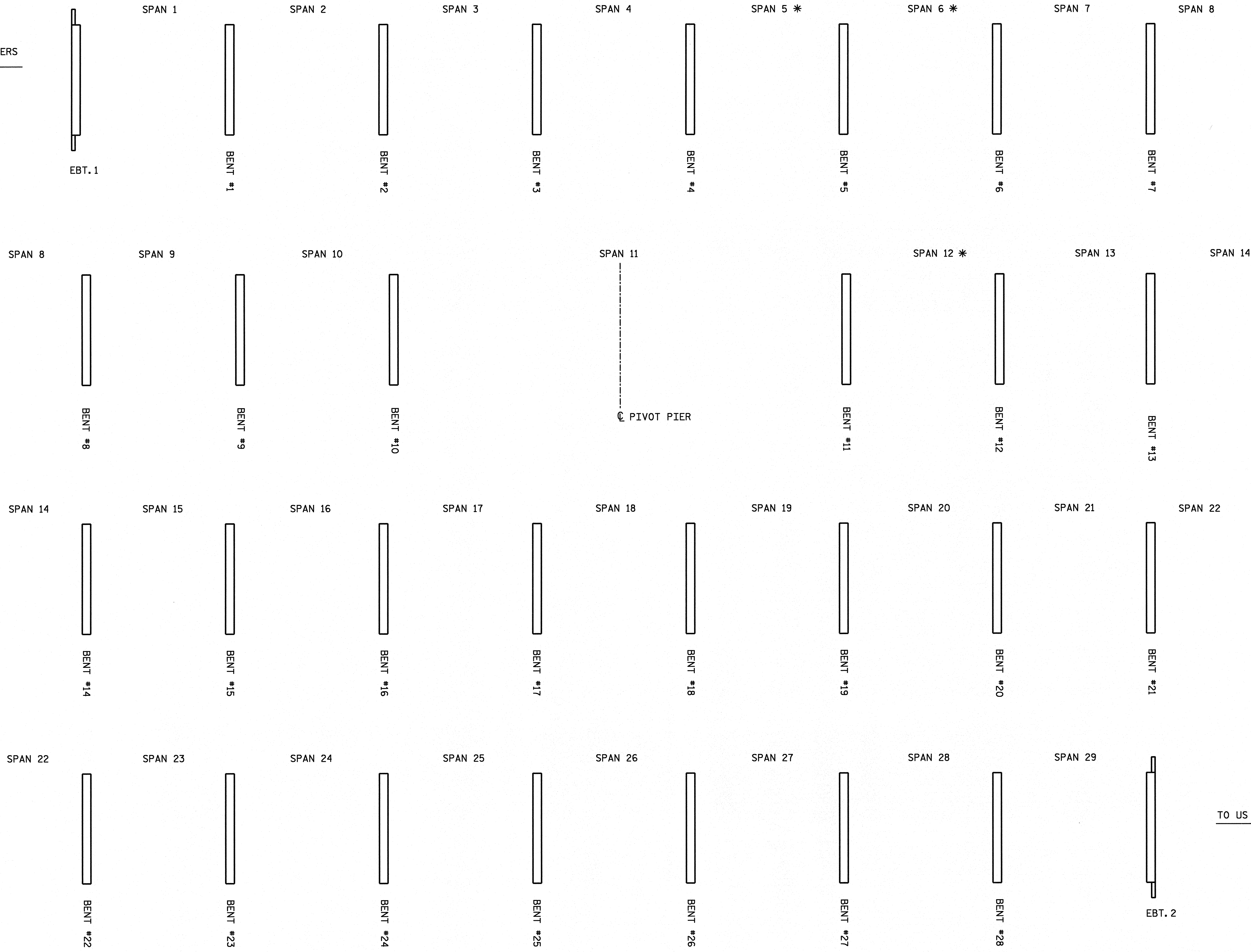
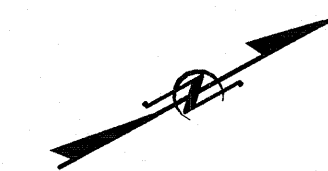


ETHERILL ENGINEERING
 559 Jones Franklin Rd. Suite 164
 Raleigh, N.C. 27606
 Bus: 919 851 8077
 Fax: 919 851 8107
 License: F-0377
 TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT NO. 17BP.2.P.8
CARTERET COUNTY
 STATION: _____
 BRIDGE NO. 96

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH						SHEET NO. S-4
UNDER DECK REPAIR LOCATIONS & STANDARD REPAIR DETAILS & NOTES						
REVISIONS						TOTAL SHEETS 6
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			
2			4			

TO HARKERS ISLAND



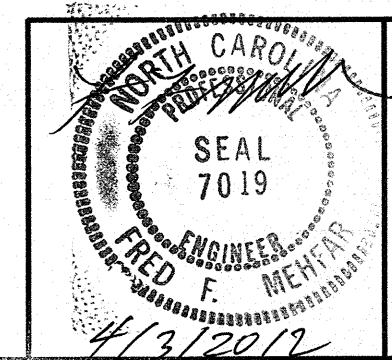
* LOCATION OF STRAND REPAIR OR REPLACEMENT

TO US 70

PROJECT NO. 17BP.2.P.8
 CARTERET COUNTY
 STATION: _____
 BRIDGE NO. 73

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 PLAN & PROFILE OF
 BRIDGE #73 TO HARKERS
 ISLAND OVER THE STRAITS

PLAN OF BRIDGE



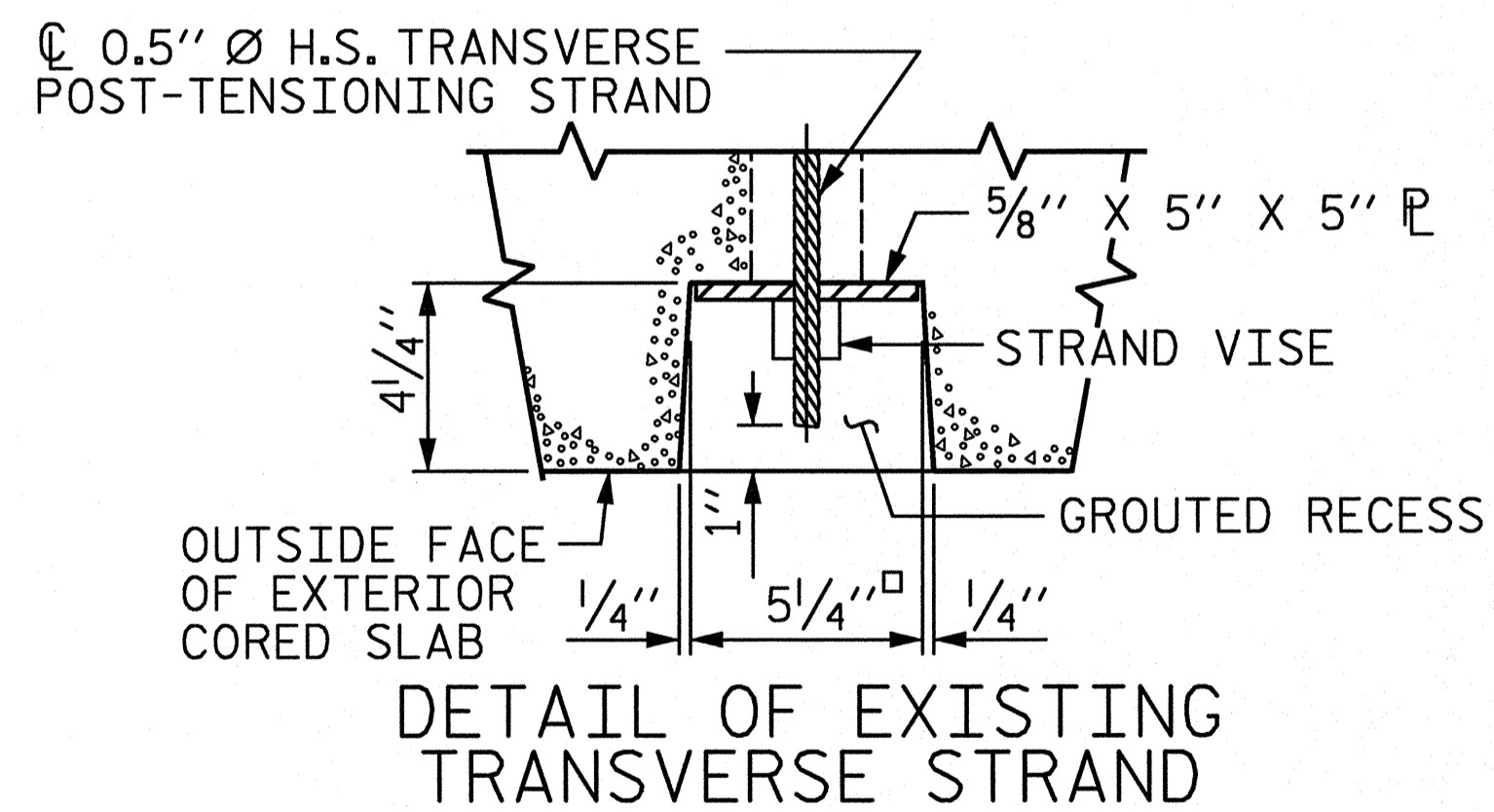
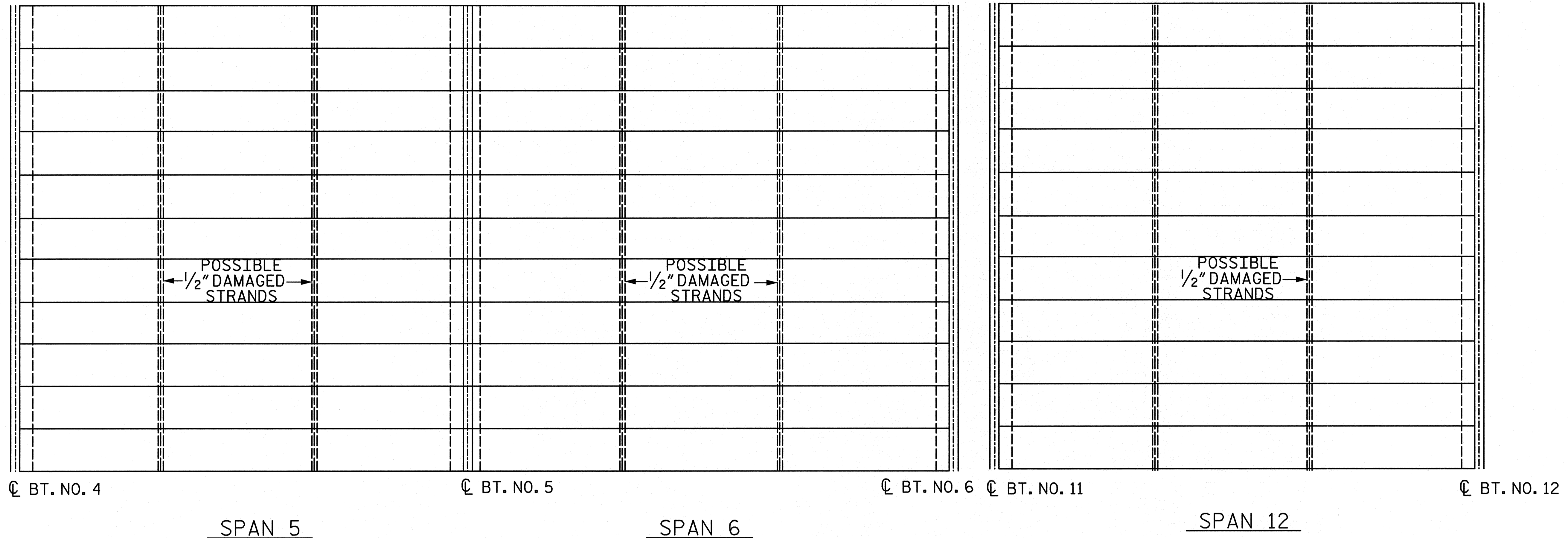
ETHERILL ENGINEERING
 559 Jones Franklin Rd. Suite 164
 Raleigh, N.C. 27606
 Bus: 919 851 8077
 Fax: 919 851 8107
 License: F-0377

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

REVISIONS						SHEET NO. S-5
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 6
2			4			

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 4/3/2012 2:16:15 PM

DRAWN BY : J. PENDERGRAFT DATE : 2/12
 CHECKED BY : T. ROUNTREE DATE : 2/12



NOTES

1. REMOVE GROUT FROM EACH END OF EXISTING TRANSVERSE STRAND.
2. VISUALLY INSPECT CONDITION OF STRAND AND VISE PLATE TO DETERMINE IF STRAND IS BROKEN.
3. IF IT IS DETERMINED THAT THE STRAND IS BROKEN, REMOVE AND REPLACE. TRAFFIC IS TO BE STOPPED DURING TENSIONING OF STRAND.
4. ALL PRESTRESSING STRANDS SHALL BE 7-WIRE LOW RELAXATION GRADE 270 STRANDS AND SHALL CONFORM TO AASHTO M203 EXCEPT FOR SAMPLING REQUIREMENTS WHICH SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
5. RECESSES FOR TRANSVERSE STRANDS SHALL BE GROUTED AFTER THE TENSIONING OF THE STRANDS.
6. TRANSVERSE POST TENSIONING OF THE CORED SLAB UNITS SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, EXCEPT THAT THE STRANDS SHALL BE 0.6 Ø AND TENSIONED TO 43,950 POUNDS.
7. IF IT CAN NOT BE DETERMINED THAT STRAND IS BROKEN, LEAVE AS IS AND REGROUT RECESS.
8. FOR "POST TENSION TRANSVERSE STRAND INSPECTION/REPLACEMENT", SEE SPECIAL PROVISIONS.
9. FOR "GROUT FOR STRUCTURES", SEE SPECIAL PROVISIONS.

BILL OF MATERIAL - BRIDGE NO. 73	
	POST TENSION TRANSVERSE STRAND INSPECTION/REPLACEMENT
UNIT	EACH
TOTAL	5

PROJECT NO. 17BP.2.P.8
CARTERET COUNTY
 STATION: _____
 BRIDGE NO. 73

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

**STRAND INSPECTION/
 REPLACEMENT LOCATIONS**

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

TOTAL SHEETS
6

NORTH CAROLINA
 PROFESSIONAL ENGINEER
 SEAL
 7019
 4/26/12

559 Jones Franklin Rd. Suite 164
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 Fax: 919 851 8107
 License: F-0377

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

DRAWN BY : J. PENDERGRAFT DATE : 2/12
 CHECKED BY : T. ROUNTREE DATE : 2/12

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STATE OF NORTH CAROLINA
RAIL DIVISION

**PLAN FOR PROPOSED
TRAFFIC CONTROL**

CARTERET COUNTY

STATE PROJECT REFERENCE NO.	SHEET NO.
17BP.2.P.8	TCP-1

WBS 17BP.2.P.8

PROJECT: 17BP.2.P.8

LOCATION: BRIDGES NO. 73 & NO. 96 ON SR 1335 OVER THE STRAITS
TYPE OF WORK: TRAFFIC CONTROL FOR BRIDGE RESTORATION

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
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUM
1135.01	CONES
1150.01	FLAGGING DEVICES
1180.01	SKINNY-DRUM

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	TEMPORARY LANE CLOSURE ON TWO-LANE, TWO-WAY ROADWAY

LEGEND

- GENERAL**
- DIRECTION OF TRAFFIC FLOW
 - NORTH ARROW
 - PROPOSED PVMT. EXIST. PVMT.
 - WORK AREA
 - REMOVAL OF EXISTING PAVEMENT
- TRAFFIC CONTROL DEVICES**
- TYPE III BARRICADE
 - CONE
 - DRUM SKINNY DRUM
 - FLASHING ARROW PANEL (TYPE C)
 - STATIONARY SIGN
 - PORTABLE SIGN
 - STATIONARY OR PORTABLE SIGN
 - CRASH CUSHION
 - CHANGEABLE MESSAGE SIGN
 - TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
 - POLICE
 - FLAGGER

4/14/2012 11:17:29 AM P:\2012\Carteret 73-96.project 17BP.2.P.8\STRUCTURE\TCP\TC_TCP\TITLE.dgn

APPROVED: DATE: 4/12/12	PLAN PREPARED BY: E.G. WETHERILL, P.E. PROJECT ENGINEER C.L. MULLEN DESIGN ENGINEER _____ DESIGN TECHNICIAN

GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRABLE 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 HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME

- SR 1335

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 7:00 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.
- FOR EASTER, BETWEEN THE HOURS OF 7:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 7:00 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 7:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 7:00 A.M. TUESDAY TO 7:00 P.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 7:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

B) DO NOT STOP TRAFFIC OR CLOSE SR 1335 EXCEPT AS FOLLOWS:

OPERATION	MAX DURATION
POST TENSIONING TRANSVERSE STRANDS IN CORED SLABS (IF NECESSARY)	(AS DIRECTED BY THE ENGINEER)

LANE AND SHOULDER CLOSURE REQUIREMENTS

- 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.
- 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.
- 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.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- 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.
- DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

4/4/2012 2:06:26 PM P:\2012\Carteret 73-96.project\17BP-2.P.8\STRUCTURE\TCP\TC_GENNOTES.dgn

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Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

APPROVED: DATE: 4/4/12

GENERAL NOTES

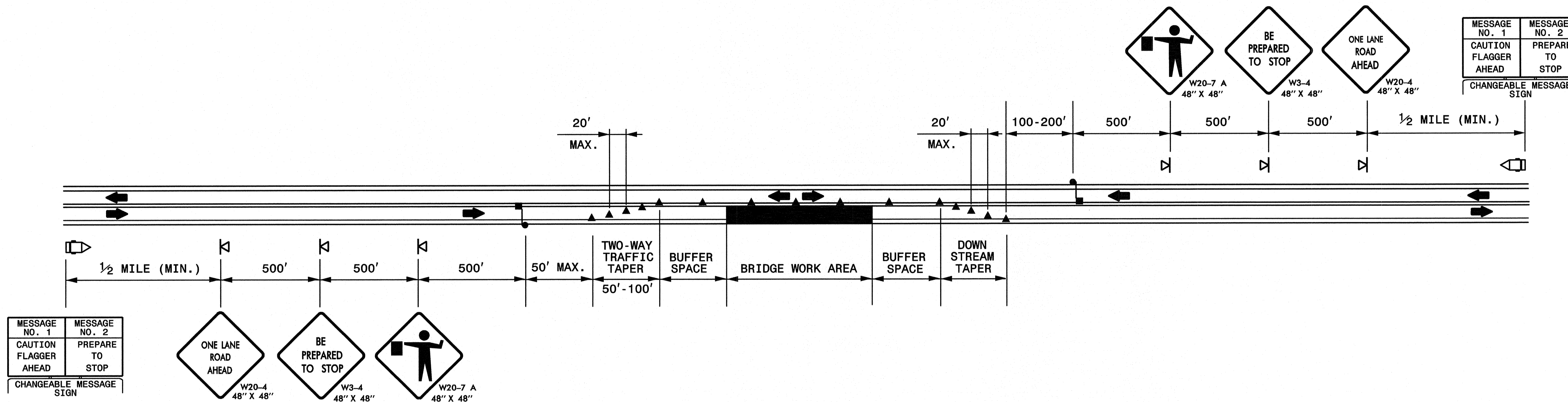
SCALE: NONE		REVISIONS
DATE: 1/2012		
DWG. BY: CLM		
DESIGN BY: CLM		
REVIEWED BY: EGW		

PHASING

STEP 1. PERFORM BRIDGE REPAIR WORK USING FLAGGING OPERATIONS AND ACCORDING TO NOTE 'A' ON SHEET TCP-2. AT THE END OF EACH DAY'S WORK OPERATIONS, MOVE EQUIPMENT TO A STAGING AREA AT LEAST 40 FEET AWAY FROM ANY TRAVEL LANE ON SR 1335 AND REMOVE LANE CLOSURES AND DEVICES AS DIRECTED BY THE ENGINEER.

IF NECESSARY, CLOSE SR 1335 TO PERFORM POST TENSIONING OF TRANSVERSE STRANDS IN BRIDGE CORED SLABS ACCORDING TO NOTE 'B' ON TCP-2 AND ROADWAY STANDARD DRAWING NO. 1101.03, SHEET 8 OF 9.

STEP 2. UPON COMPLETION OF ALL BRIDGE REPAIR WORK, REMOVE TRAFFIC CONTROL DEVICES FROM SR 1335.



GENERAL NOTES FOR FLAGGER OPERATIONS

1. REFER TO STD. 1101.11 SHEET 4 FOR SIGN SPACING.
2. INSTALL LANE CLOSURES WITH THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE UPSTREAM SIDE OF TRAFFIC.
3. REMOVE LANE CLOSURES AGAINST THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF TRAFFIC.
4. PLACE CONES THRU THE WORK AREA AT THE MAXIMUM SPACING EQUAL IN FEET TO 2 TIMES THE POSTED SPEED LIMIT.
5. EXTEND LANE CLOSURES AT THE BUFFER SPACE SUCH THAT STOPPING SIGHT DISTANCE IS PROVIDED TO THE FLAGGER (REFER TO STD. 1101.11 SHEET 2).
6. DO NOT STOP TRAFFIC IN ANY ONE DIRECTION FOR MORE THAN 5 MINUTES AT A TIME.
7. DRUMS OR SKINNY-DRUMS AY BE USED IN LIEU OF CONES. REFER TO STD. 1180.01 FOR SKINNY-DRUM REQUIREMENTS.
8. USE FLAGGERS TO CONTROL TRAFFIC AT INTERSECTIONS AFFECTED BY THE LANE CLOSURE. SUPPLEMENT FLAGGERS LOCATED AT INTERSECTIONS WITH FLAGGER AHEAD SIGNS (W20-7a) PLACED APPROXIMATELY 250 FT. IN ADVANCE OF THE FLAGGER.
9. REFER TO 2009 MUTCD - CHAPTER 6, FOR FLAGGER CONTROL, REQUIREMENTS, AND PROCEDURES.
10. DO NOT EXCEED A 1 MILE LANE CLOSURE LENGTH UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

GENERAL NOTES FOR PILOT CAR OPERATIONS

1. USE PILOT CARS WHEN DIRECTED BY THE ENGINEER.
2. IF ROADWAY WIDTH IS LESS THAN 22 FEET (EOP TO EOP), CONES MAY NOT BE REQUIRED ALONG WORK AREA AND, AT THE DISCRETION OF THE ENGINEER, CONES MAY BE OMITTED ALONG THE WORK AREA IF USING A PILOT CAR.
3. CONES ARE ALWAYS REQUIRED IN THE UPSTREAM AND DOWNSTREAM TAPERS.
4. MOUNT SIGN G20-4 "PILOT CAR FOLLOW ME" AT A CONSPICUOUS POSITION ON THE REAR OF THE PILOT VEHICLE.
5. DO NOT INSTALL MORE THAN 1 MILE OF LANE CLOSURE, MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.
6. ADVISE RESIDENTS AND BUSINESSES WITHIN THE LANE CLOSURE LIMITS ABOUT METHODS OF SAFE EGRESS AND INGRESS FROM DRIVEWAYS DURING FLAGGING AND PILOT CAR OPERATIONS.

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APPROVED: *[Signature]* DATE: 4/4/12

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 EDWARD G. WETHERILL
 10773

TEMPORARY LANE CLOSURE ON TWO-LANE, TWO-WAY ROADWAY

SCALE: NONE
 DATE: 1/2012
 DWG. BY: CLM
 DESIGN BY: CLM
 REVIEWED BY: EGW

REVISIONS

CADD FILE