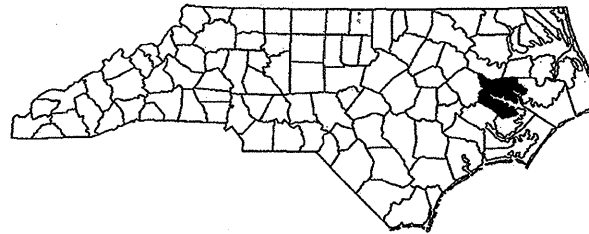
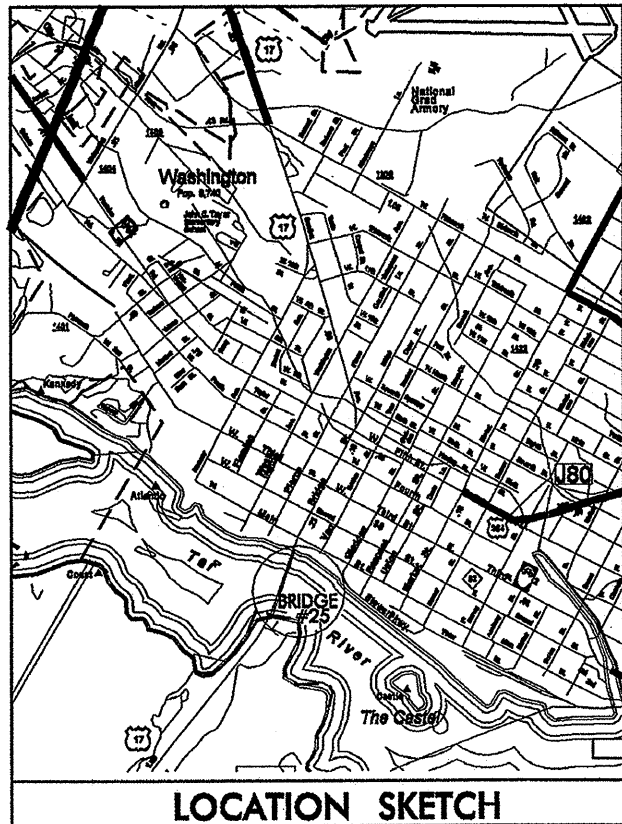


**R-2510 D**

**TIP PROJECT:**

**C201840**

**CONTRACT:**



STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS

**BEAUFORT COUNTY**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	WBS #34440.3.8	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

**LOCATION: BRIDGE NO. 25, US 17 @ WASHINGTON**  
**PROJECT: MOVABLE SWING SPAN ONLY**  
**TYPE OF WORK: REPLACEMENT OF STEEL GRID FLOOR**  
**STRUCTURAL STEEL REPAIRS**  
**CLEANING & PAINTING OF STRUCTURE**

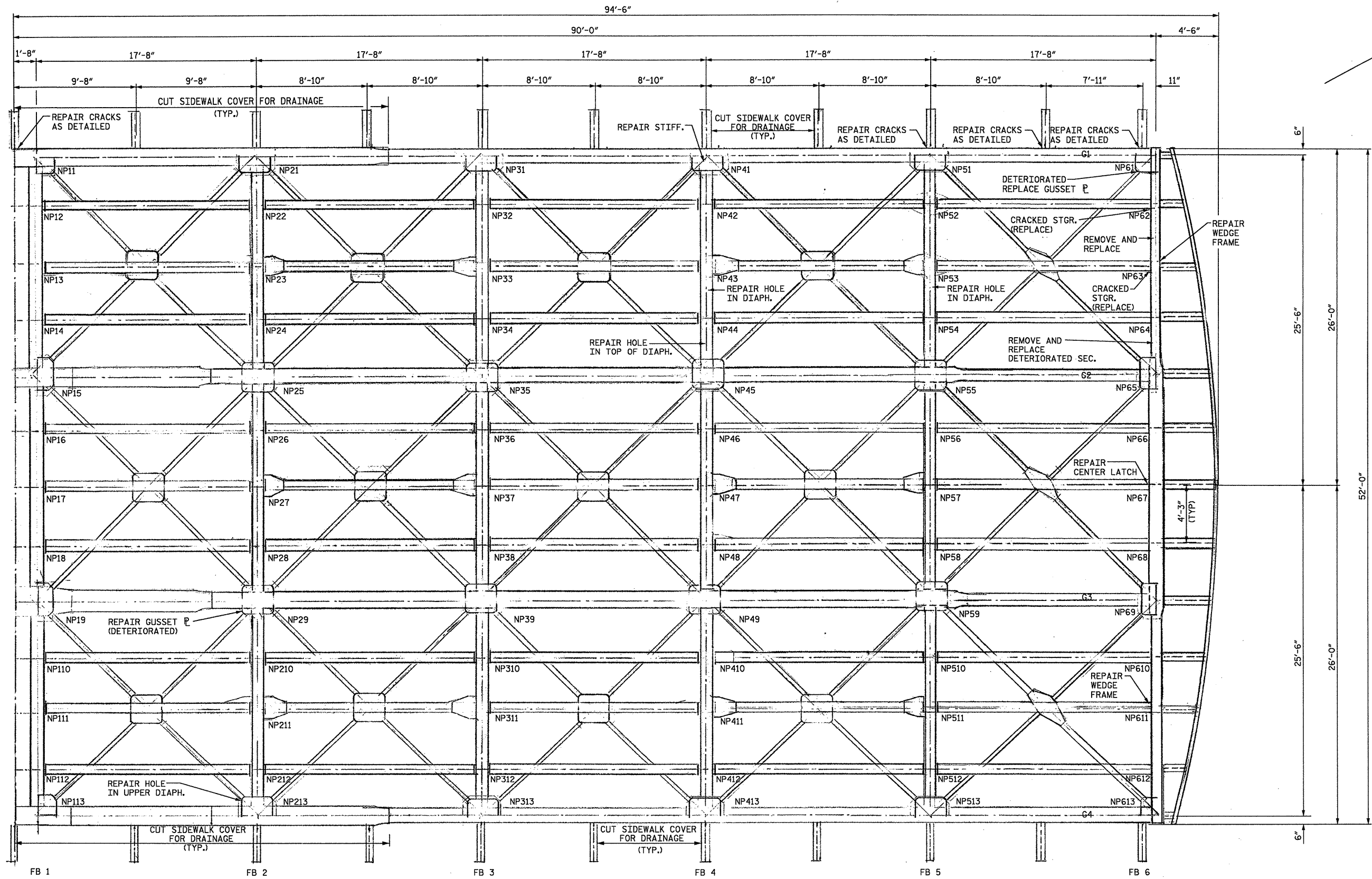
**INDEX OF DRAWING SHEETS**

- SHEET #1 TITLE SHEET
- SHEET #2 & #3 GENERAL FRAMING PLAN, LOCATION OF REPAIRS
- SHEET #4 TYPICAL SECTION
- SHEET #5 THRU #9 STRUCTURAL STEEL REPAIRS
- SHEET #10 THRU #15 EXISTING GIRDER DETAILS
- SHEET #16 THRU #18 EXISTING STEEL GRID FLOOR DETAILS
- SHEET #19 THRU #21 PROPOSED STEEL GRID FLOOR DETAILS
- SHEET #TCP-1 THRU #TCP-10 TRAFFIC CONTROL PLANS



620-07

GRAPHIC SCALES	DESIGN DATA	PROJECT LENGTH	Prepared in the Office of: <b>DIVISION OF HIGHWAYS</b> 1000 Birch Ridge Dr., Raleigh NC, 27610		HYDRAULICS ENGINEER	DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA
			2006 STANDARD SPECIFICATIONS	RIGHT OF WAY DATE:		
			LETTING DATE: Sept. 18, 2007	PROJECT DESIGN ENGINEER		DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION
						APPROVED DIVISION ADMINISTRATOR



**NORTH SPAN**

P:\Mehtar\ar-BridgeRepairs\BEAUFORT\_CD\DWG\sheel2.dgn 6/19/2007 1:52:58 PM

**WASHINGTON N.C., BEAUFORT CO.  
BRIDGE NO. 25 OVER PAMLICO RIVER**

**GENERAL FRAMING LAYOUT - NORTH SPAN**



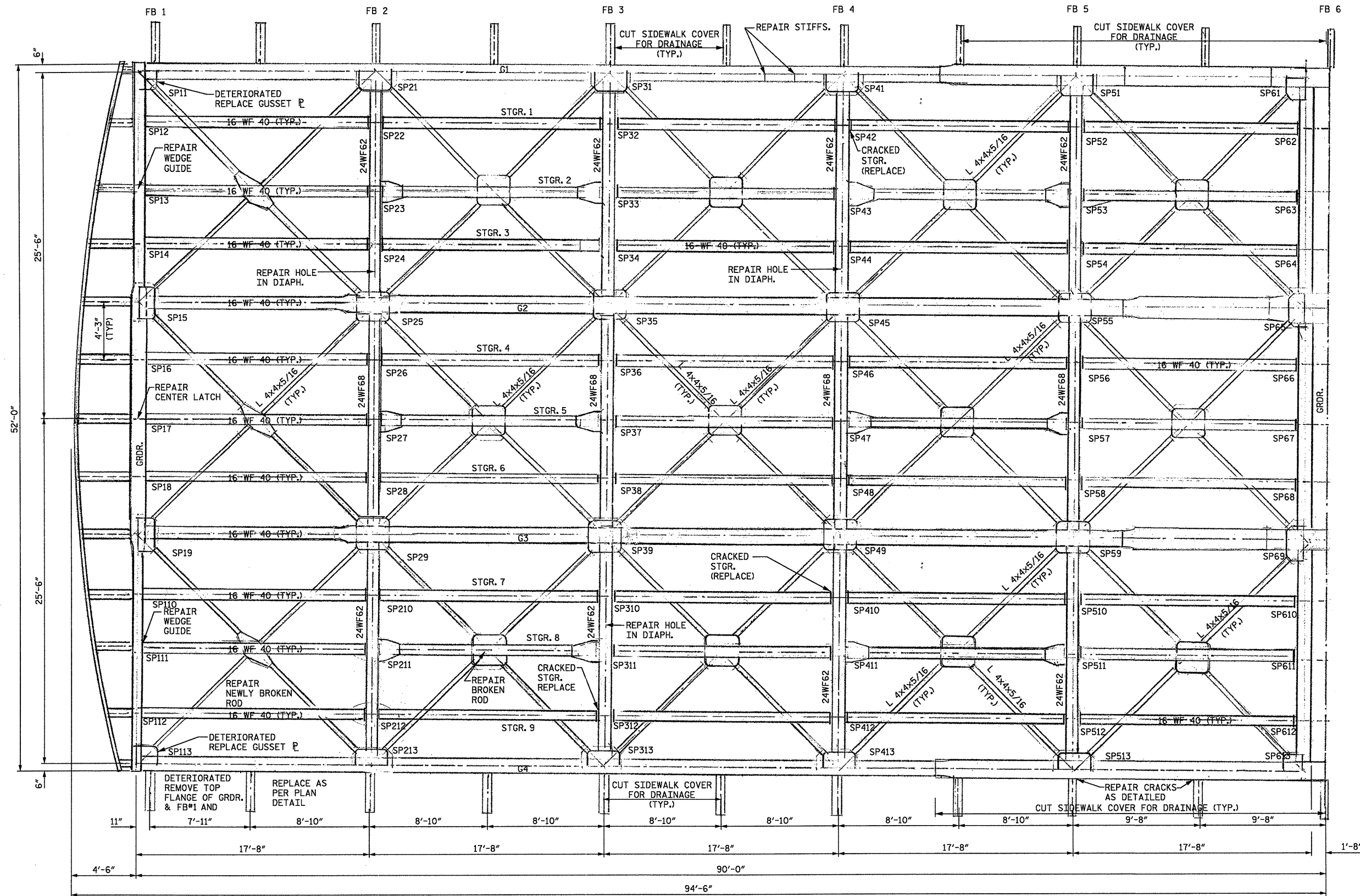
559 Jones Franklin Rd. Suite 164  
 Raleigh, N.C. 27606  
 Bus: 919 851 8077  
 Fax: 919 851 8107

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

REVISIONS			
NO.	DATE	DESCRIPTION	BY

DATE:	2-13-07
SCALE:	NTS
DRAWN:	F MEHFAR
CHECKED:	JAD
PROJ. NO.:	
SHEET:	S-2





**SOUTH SPAN**

**WASHINGTON N.C., BEAUFORT CO.**  
**BRIDGE NO. 25 OVER PAMLICO RIVER**

**GENERAL FRAMING LAYOUT - SOUTH SPAN**



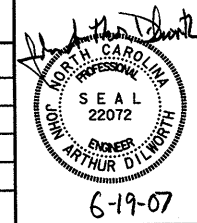
559 Jones Franklin Rd. Suite 164  
 Raleigh, N.C. 27606  
 Bus: 919 851 8077  
 Fax: 919 851 8107

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 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

**REVISIONS**

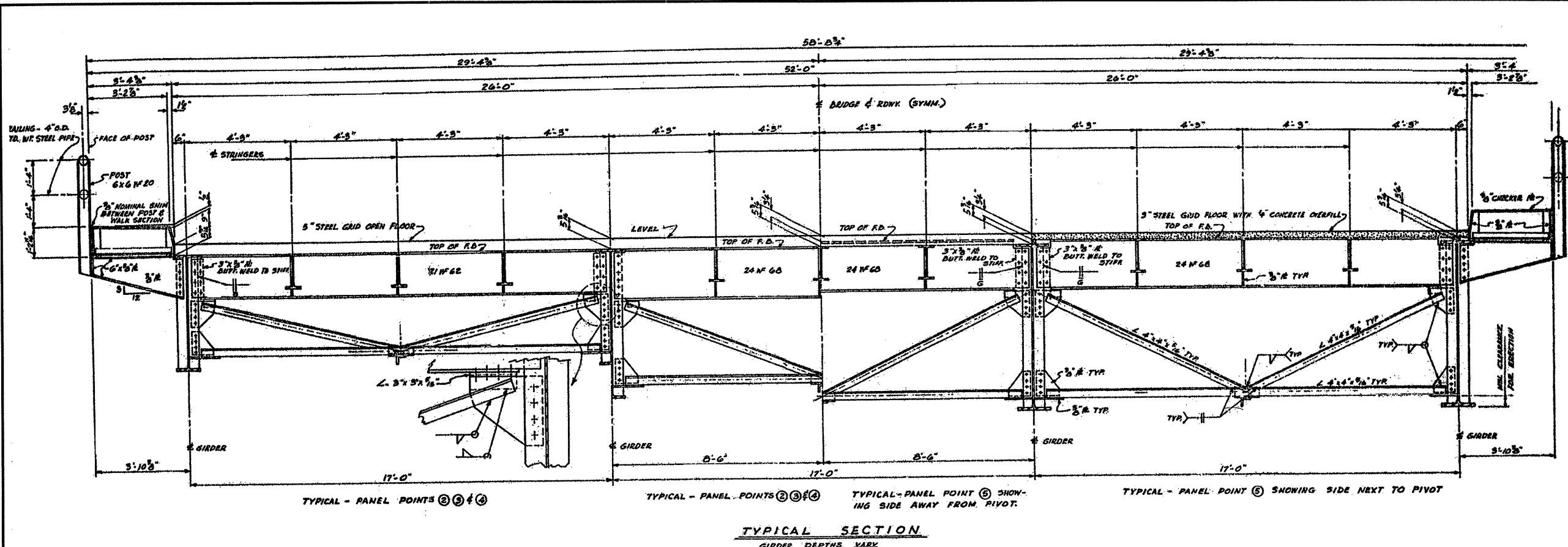
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 PROJ. NO.:  
 SHEET: S-3



6-19-07

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TYPICAL - PANEL POINTS ②③④  
 TYPICAL - PANEL POINTS ②③④  
 TYPICAL - PANEL POINT ⑤ SHOWING SIDE AWAY FROM PIVOT.  
 TYPICAL - PANEL POINT ⑤ SHOWING SIDE NEXT TO PIVOT  
**TYPICAL SECTION**  
 GIRDER DEPTHS VARY

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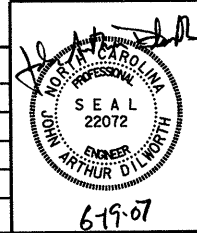
WASHINGTON N.C., BEAUFORT CO.  
 BRIDGE NO. 25 OVER PAMLICO RIVER

TYPICAL SECTION


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

REVISIONS			
NO.	DATE	DESCRIPTION	BY

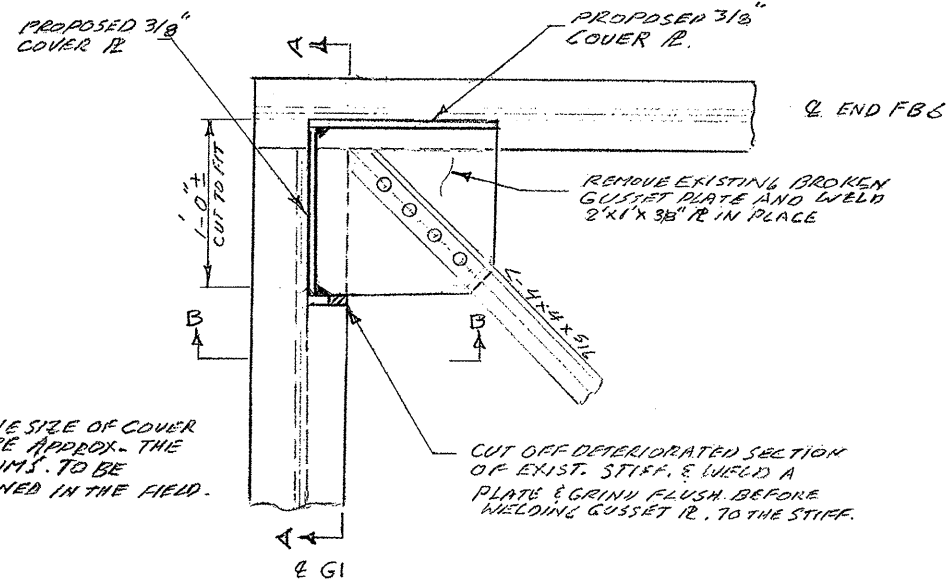
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 SHEET: S-4



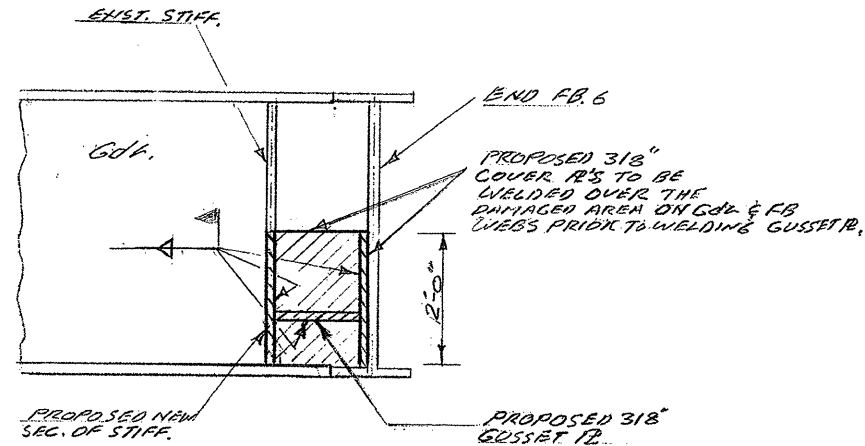
619-07

NOTE 1 - FIELD DRILL ALL HOLES, AND REPLACE BOLTS WITH U.S. A-325 BOLTS.  
 NOTE 2 - ALL CUT EDGES TO BE GROUND SMOOTH.

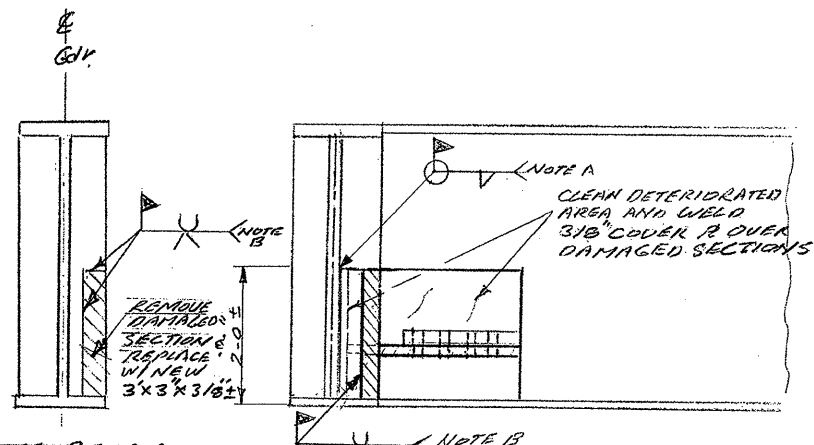
SP11, SP113 & NP61



NOTE: THE SIZE OF COVER PLATES ARE APPROX. THE EXCAT DIMS. TO BE DETERMINED IN THE FIELD.



SEC. A-A  
 STIFFS. & WEBS REPAIR  
 NP61, SP11 & SP113

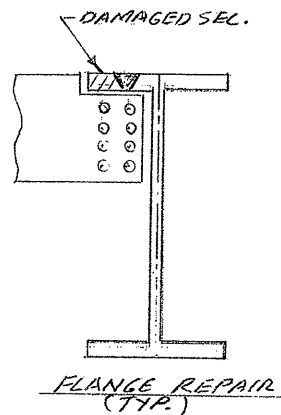
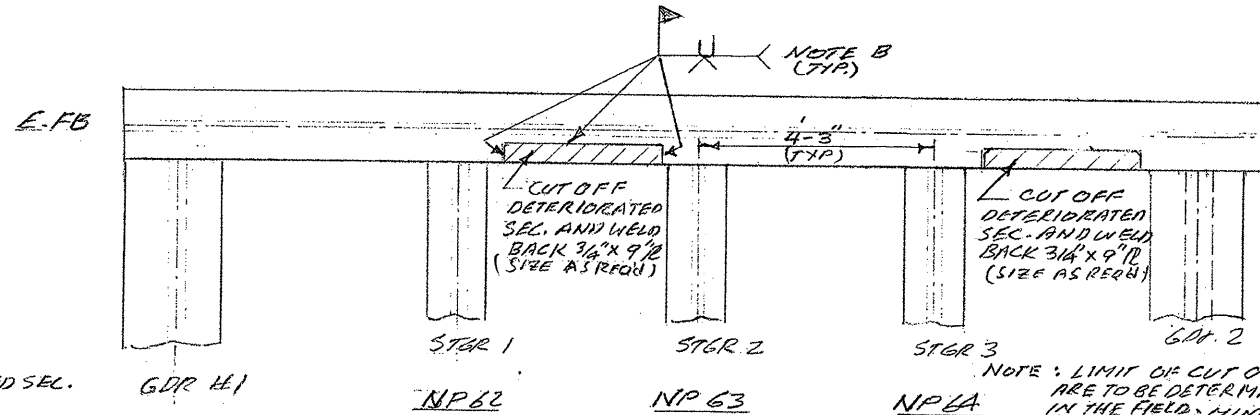


STIFF REPAIR  
 SP31 - SP41

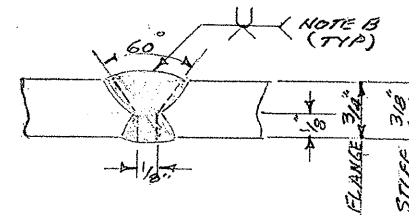
SEC. B-B  
 ELEV. VIEW  
 SP11, SP113, NP61

NOTE A: 1/4" FILLET WELD ALL AROUND.

NOTE B: GRIND TO SOUND METAL BEFORE WELDING SECOND SIDE.



FLANGE REPAIR  
 (TYP.)



WELD DETAIL  
 FOR FLANGE & STIFFER  
 REPAIR

NOTE: LIMIT OF CUT OFFS ARE TO BE DETERMINED IN THE FIELD; HINGE CHANGES IN LENGTH & WIDTH MAY BE REQUIRED.

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WASHINGTON N.C., BEAUFORT CO.  
 BRIDGE NO. 25 OVER PAMLICO RIVER

REPAIR TO TOP FLANGE AND GUSSET PLATES



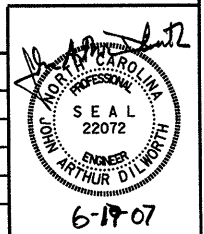
559 Jones Franklin Rd. Suite 164  
 Raleigh, N.C. 27606  
 Bus: 919 851 8077  
 Fax: 919 851 8107

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

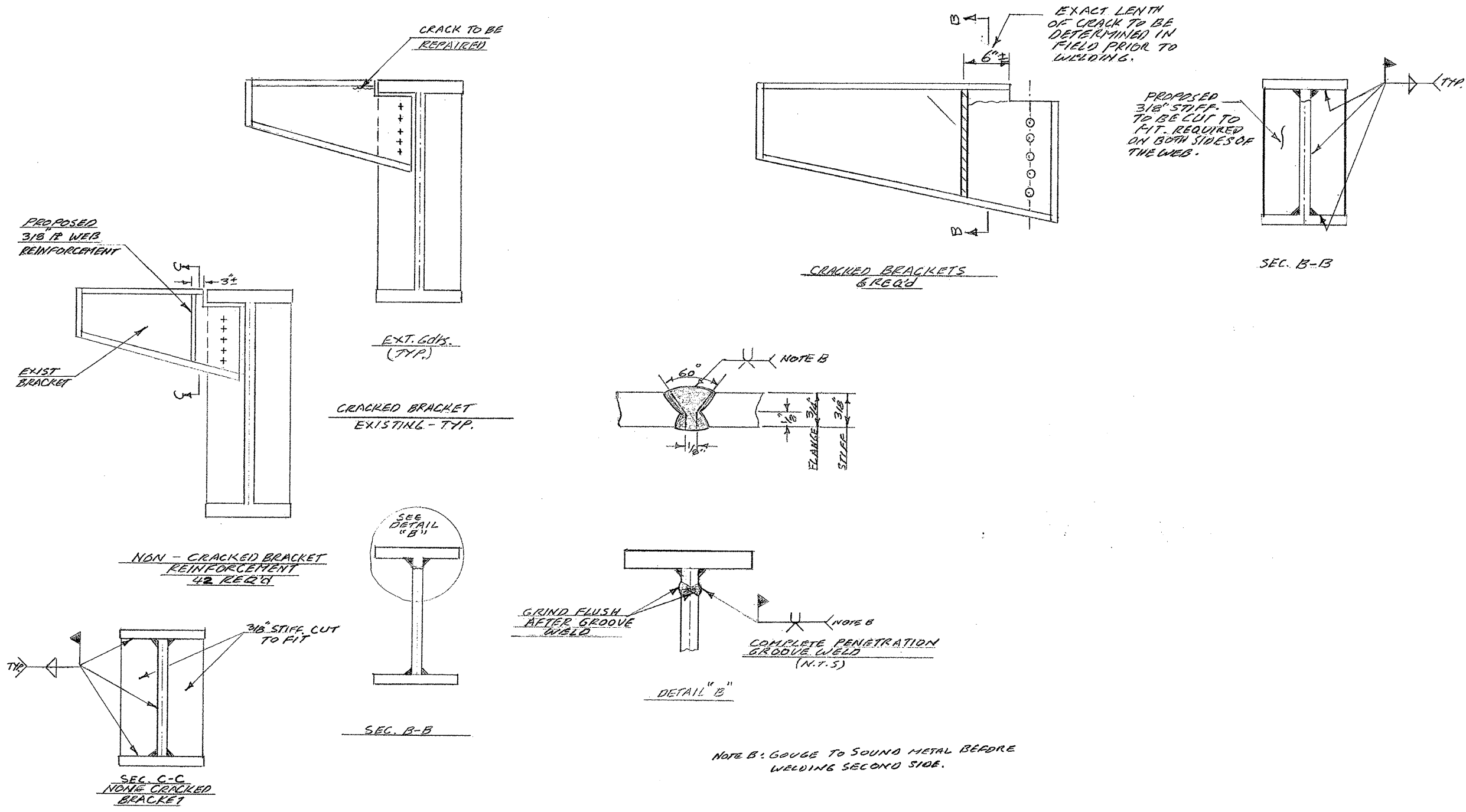
REVISIONS

NO.	DATE	DESCRIPTION	BY

DATE: 2-13-07  
 SCALE: NTS  
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 SHEET: S-5



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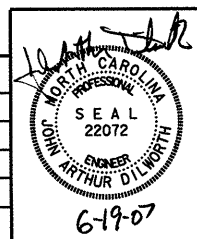


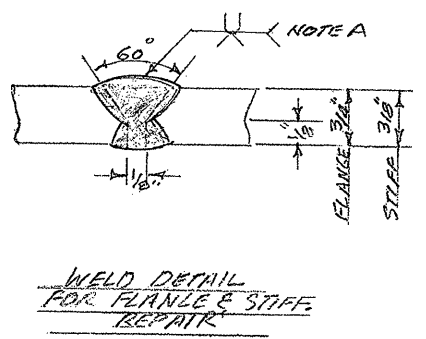
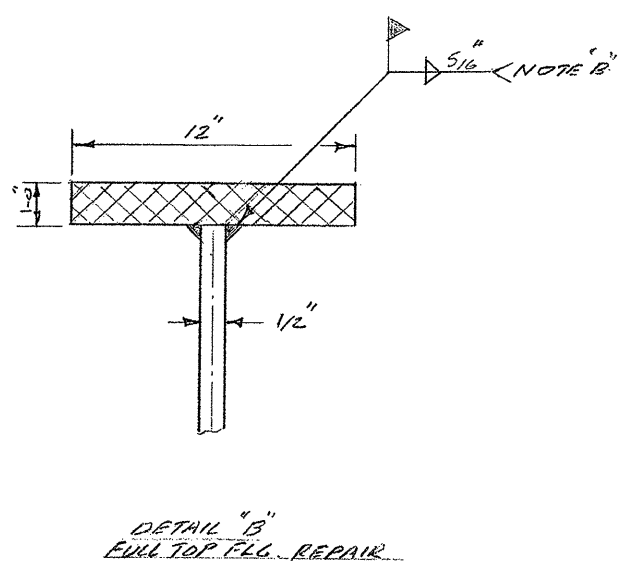
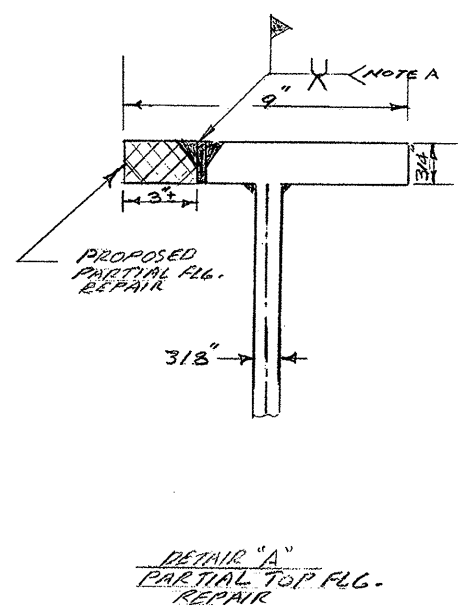
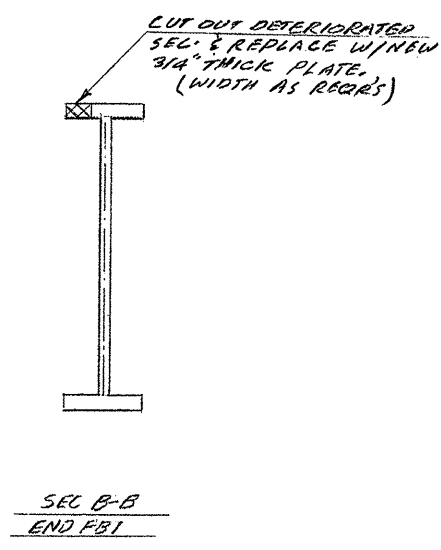
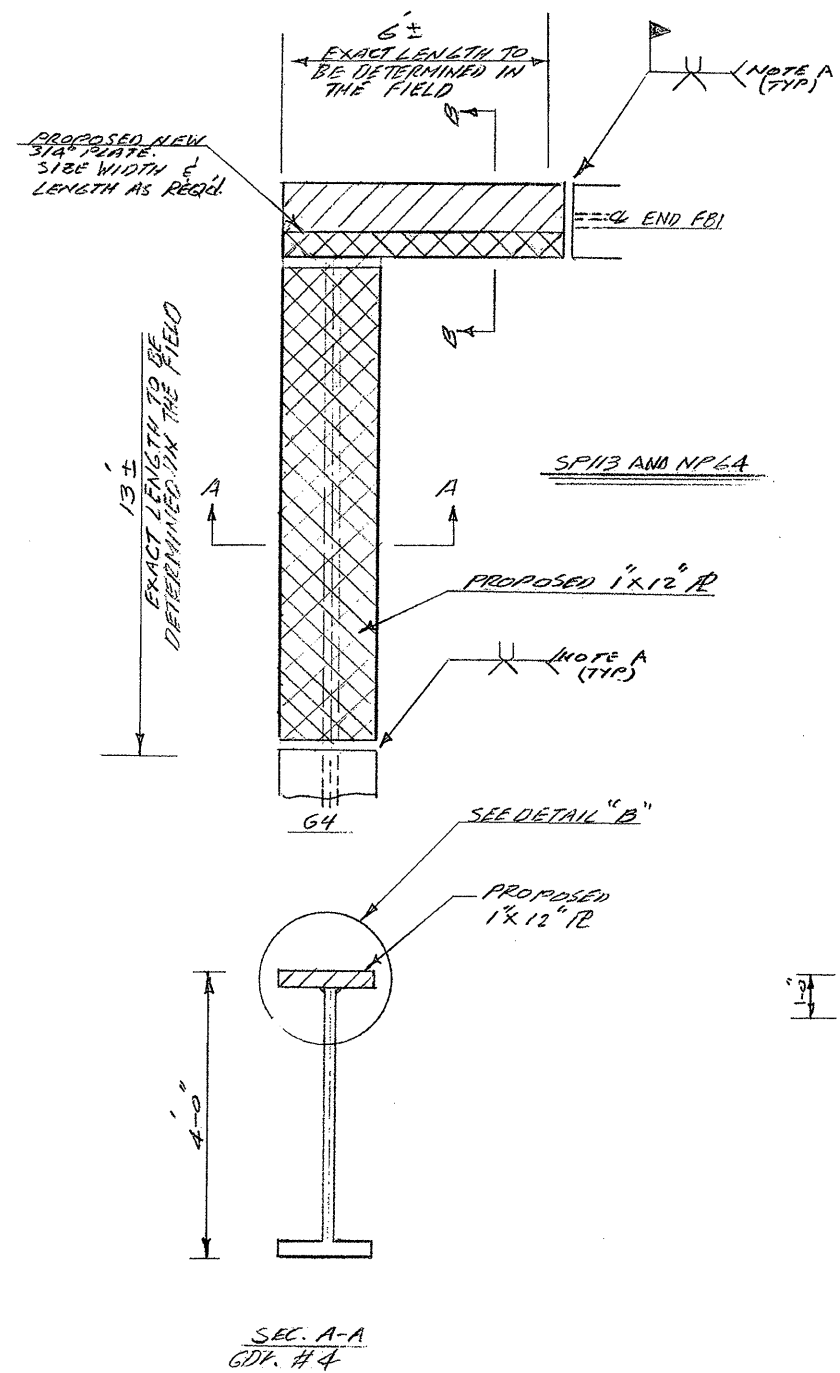
**WASHINGTON N.C., BEAUFORT CO.**  
**BRIDGE NO. 25 OVER PAMLICO RIVER**  
**SIDEWALK BRACKET REPAIR**

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

REVISIONS			
NO.	DATE	DESCRIPTION	BY

DATE: 2-13-07  
SCALE: NTS  
DRAWN: F MEHFAR  
CHECKED: JAD  
PROJ. NO.:  
SHEET: S-6





NOTE A: GOUGE TO SOUND METAL BEFORE WELDING SECOND SIDE.  
 NOTE B: SINGLE PASS

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WASHINGTON N.C., BEAUFORT CO.  
 BRIDGE NO. 25 OVER PAMLICO RIVER

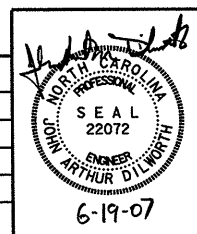
FLANGE REPAIR

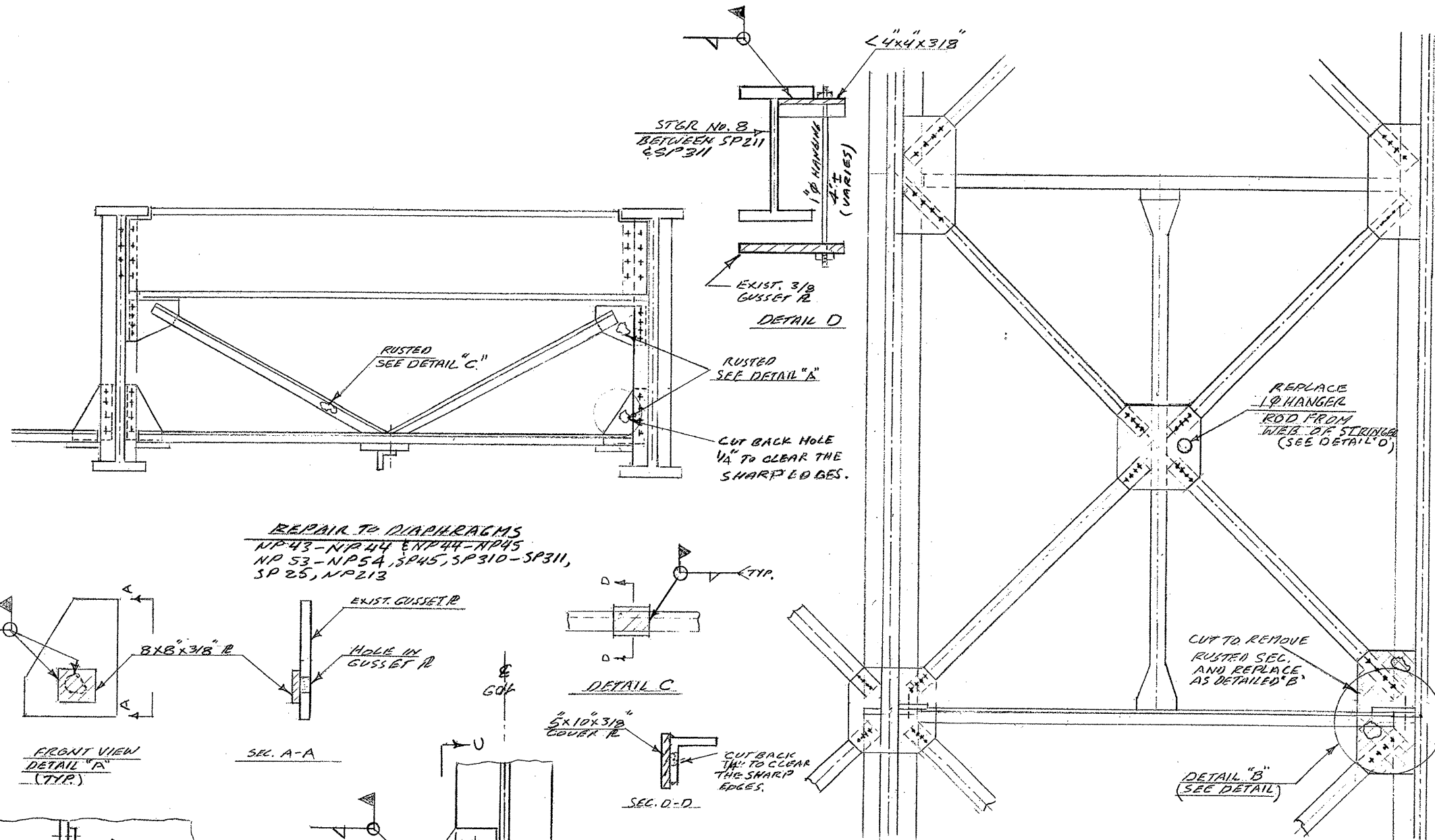
**WETHERILL ENGINEERING**  
 559 Jones Franklin Rd. Suite 164  
 Raleigh, N.C. 27606  
 Bus: 919 851 8077  
 Fax: 919 851 8107

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

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DATE: 2-13-07  
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 PROJ. NO.:  
 SHEET: S-7





REPAIR TO DIAPHRAGMS  
 NP43-NP44 & NP44-NP45  
 NP53-NP54, SP45, SP310-SP311,  
 SP25, NP213

PART PLAN  
 LATERAL BRACING  
 BETWEEN SP11-SP213,  
 AND SP213-SP313,  
 NPL9, SP55

FRONT VIEW  
 DETAIL "A"  
 (TYP.)

SEC. A-A

DETAIL C

SEC. D-D

DETAIL "B"  
 (SEE DETAIL)

SEC. C-C  
 SIDE VIEW

PROPOSED NEW  
 GUSSET PLATE  
 AN PART STIFF.

DETAIL "B"  
 (TYP.)

SEC. B-B  
 PLAN VIEW  
 NEW GUSSET PL.

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WASHINGTON N.C., BEAUFORT CO.  
 BRIDGE NO. 25 OVER PAMLICO RIVER

LATERAL BRACING REPAIR



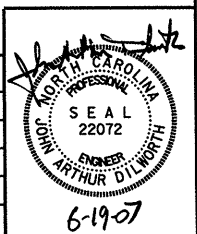
559 Jones Franklin Rd, Suite 164  
 Raleigh, N.C. 27606  
 Bus: 919 851 8077  
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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

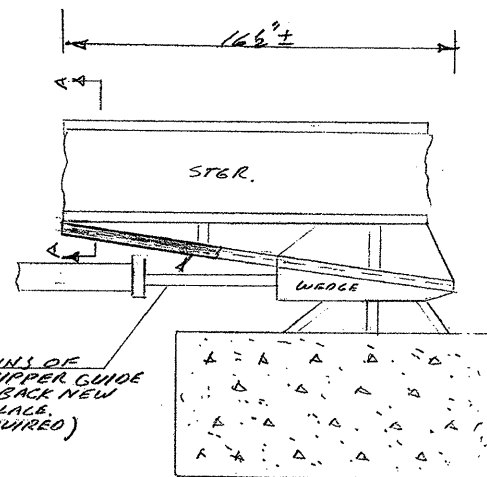
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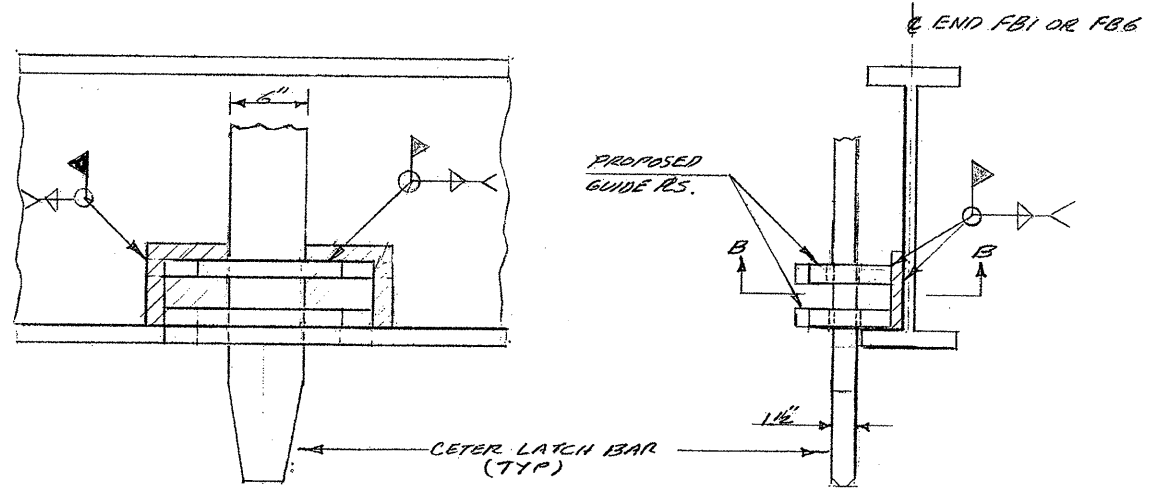




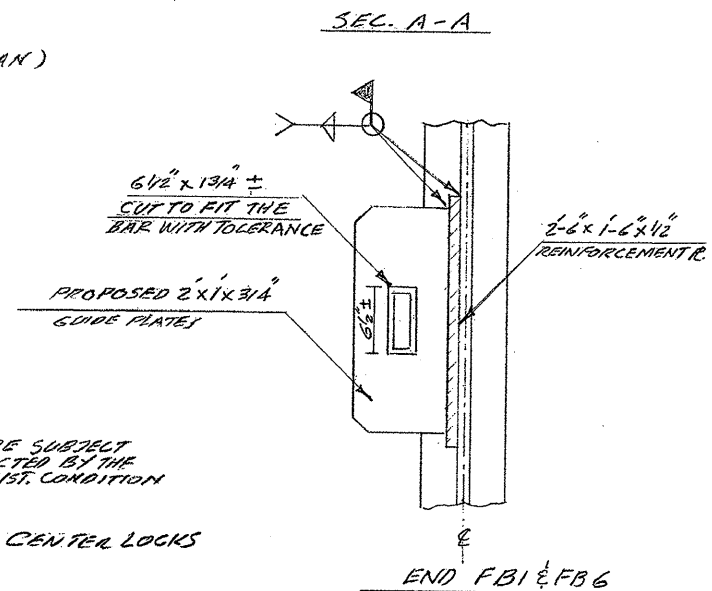
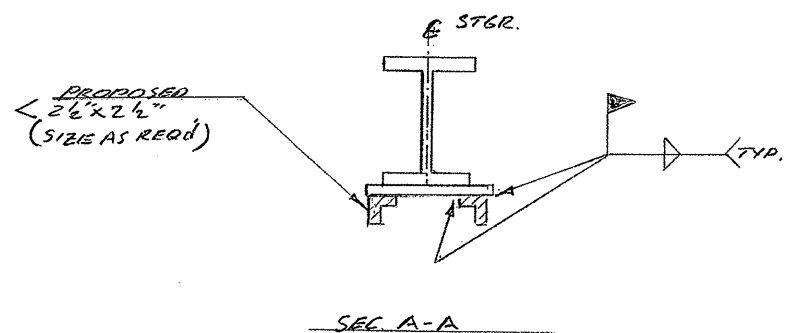


SPI3 & NP611  
WEDGE PLAN

END WEDGE GUIDE  
(TYP.)



CENTER LATCH  
FRONT VIEW  
(NORTH OR SOUTH SPAN)



NOTE:  
ALL DIMENSIONS ARE SUBJECT  
TO CHANGE AS DIRECTED BY THE  
ENGINEER TO FIT EXIST. CONDITION

NOTE:  
REPAIR BOTH CENTER LOCKS

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WASHINGTON N.C., BEAUFORT CO.  
BRIDGE NO. 25 OVER PAMLICO RIVER

CENTER LATCH REPAIR



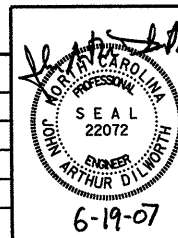
559 Jones Franklin Rd. Suite 164  
Raleigh, N.C. 27606  
Bus: 919 851 8077  
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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

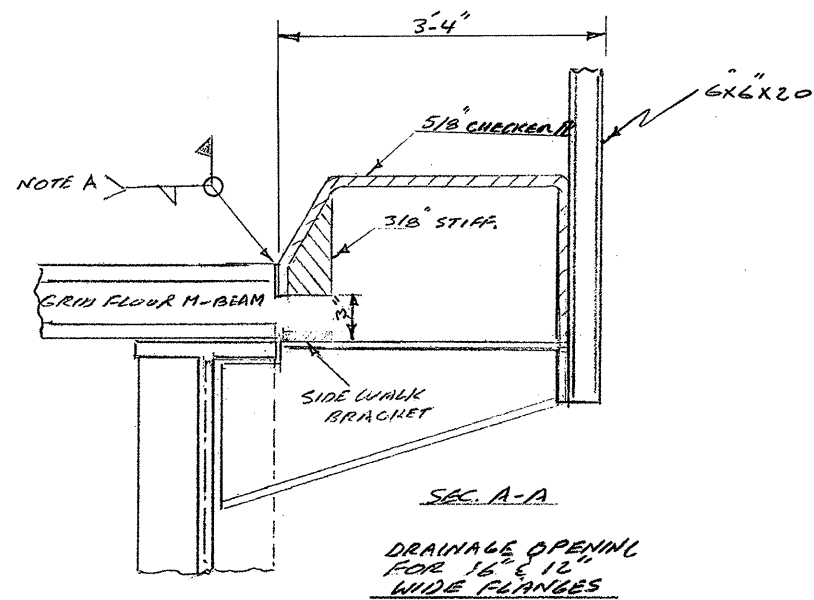
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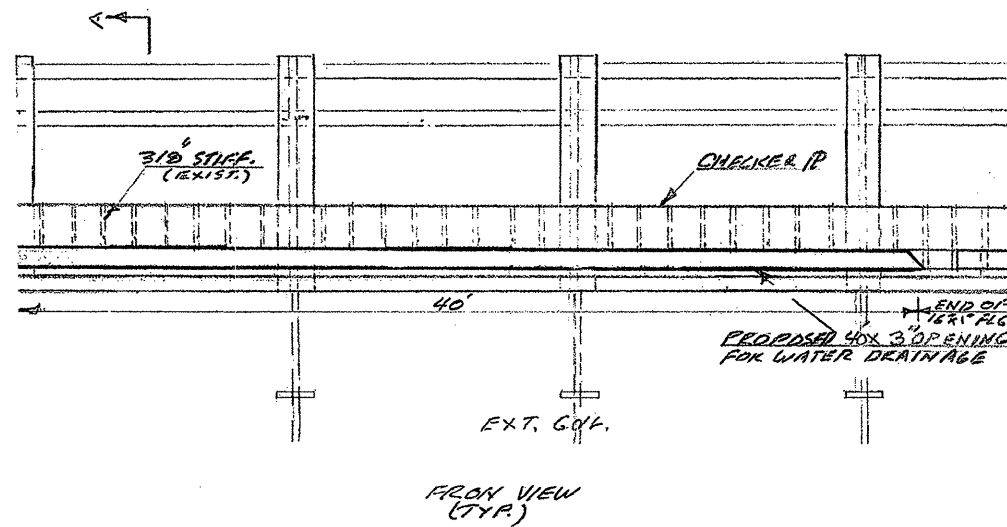
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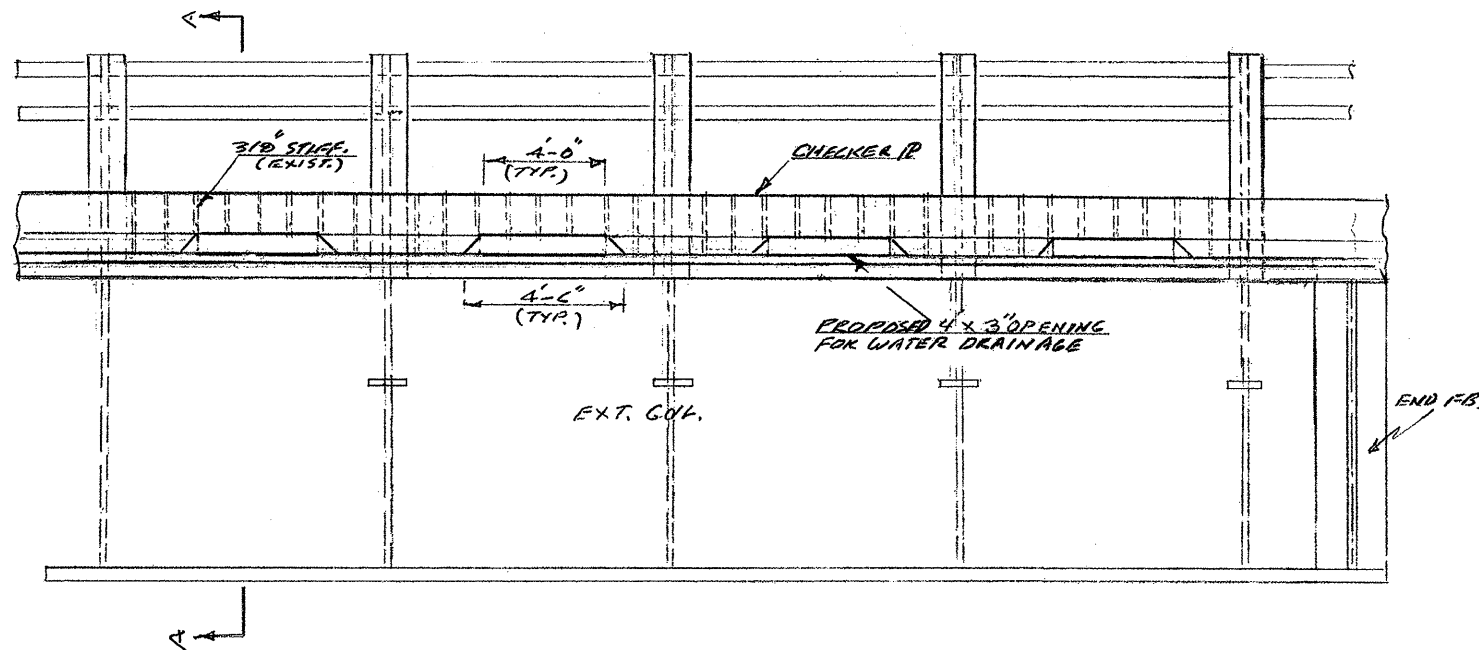
6-19-07



NOTE A  
WELD SIDEWALK TO MAIN BEAM OF GRID FLOOR AND SHIP AS NEEDED



NOTE: USE THIS DETAIL BETWEEN SP 41 - NP 31 SP 13 - NP 313 WITH 16" WIDE FLANGE SECTIONS.



NOTE: THIS DETAIL BETWEEN NP 31 - NP 61 & NP 313 - NP 13 SP 11 - SP 11 & SP 113 - SP 13 WITH 12" WIDE FLANGE SECTIONS

NOTE: DRAINAGE OPENING FOR SOUTH SPAN SIMILAR TO THE NORTH SPAN.

WASHINGTON N.C., BEAUFORT CO.  
BRIDGE NO. 25 OVER PAMLICO RIVER

OPENING ON CHECKER PLATE - EXTERIOR GIRDERS



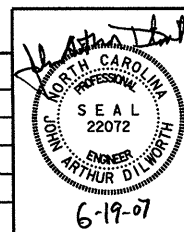
559 Jones Franklin Rd. Suite 164  
Raleigh, N.C. 27606  
Bus: 919 851 8077  
Fax: 919 851 8107

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

REVISIONS

NO.	DATE	DESCRIPTION	BY

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SHEET: S-10

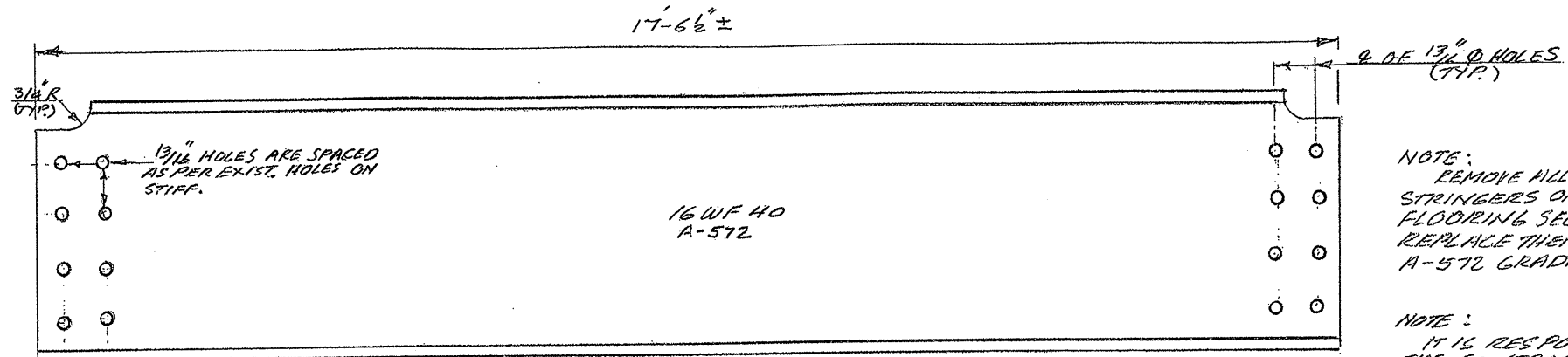


6-19-07

NOTE:  
MINIMUM OF ONE COAT  
OF NCCOT APPROVED  
PRIMER SHALL BE  
APPLIED TO ALL  
STRINGERS PRIOR  
TO SHIPMENT.

NOTE:  
FIELD DRILL ALL HOLES  
& REPLACE BOLTS WITH  
H.S. A-305 BOLTS

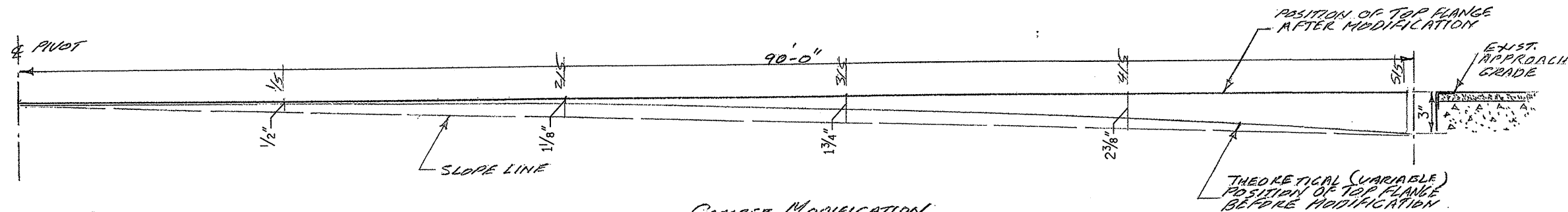
NOTE:  
ALL CUT EDGES TO BE  
GROUND SMOOTH.



PROPOSED NEW STRINGER  
72 EA. REQ'D

NOTE:  
REMOVE ALL THE EXISTING  
STRINGERS ON OPEN GRID  
FLOORING SECTION AND  
REPLACE THEM WITH NEW  
A-572 GRADE 50 STRINGERS

NOTE:  
IT IS RESPONSIBILITY OF  
THE CONTRACTOR TO MAKE  
FIELD MEASUREMENT TO  
DETERMINE THE EXACT LENGTH  
OF THE PROPOSED NEW  
STRINGERS TO ALLOW FOR  
CHANGE IN LENGTH OF THE  
NEW STRINGERS DUE TO THE  
NATURAL CAMBER AND OTHER  
VARIANTS.



NOTE:  
THE DEFLECTIONS SHOWN ABOVE  
ARE THEORETICAL. THE  
TEMPERATURE & OTHER FACTORS  
SHOULD BE TAKEN IN CONSIDERATION  
DURING THE MODIFICATION PROCESS.

CAMBER MODIFICATION  
FOR  
EXTERIOR & INTERIOR GIRDERS

WASHINGTON N.C., BEAUFORT CO.  
BRIDGE NO. 25 OVER PAMLICO RIVER

PROPOSED NEW STRINGER AND DEFLECTION MODIFICATION



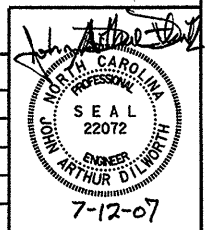
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Raleigh, N.C. 27606  
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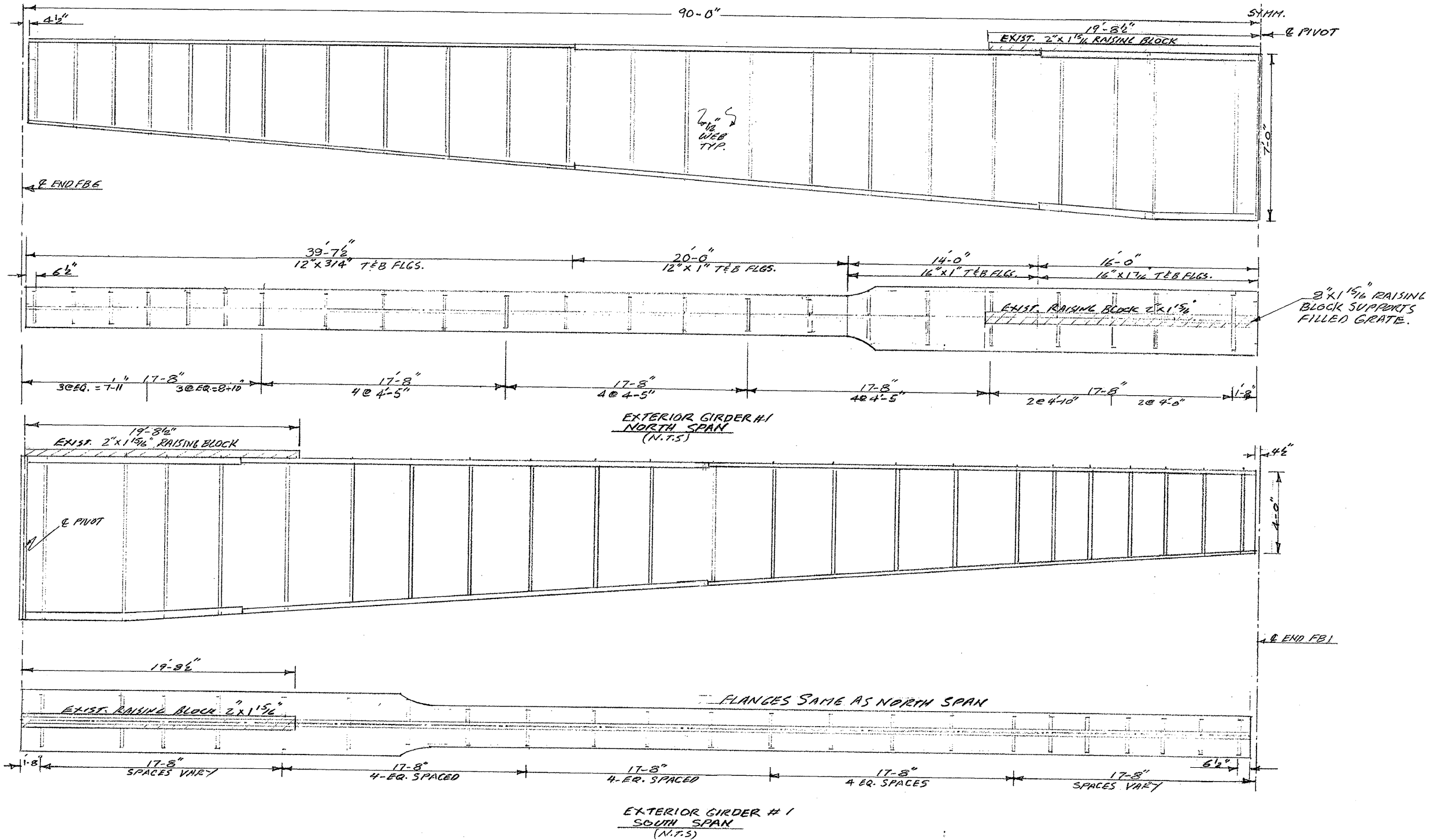
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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

REVISIONS

NO.	DATE	DESCRIPTION	BY


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SHEET: S-11





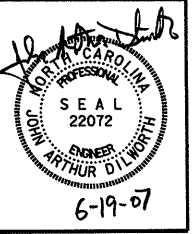
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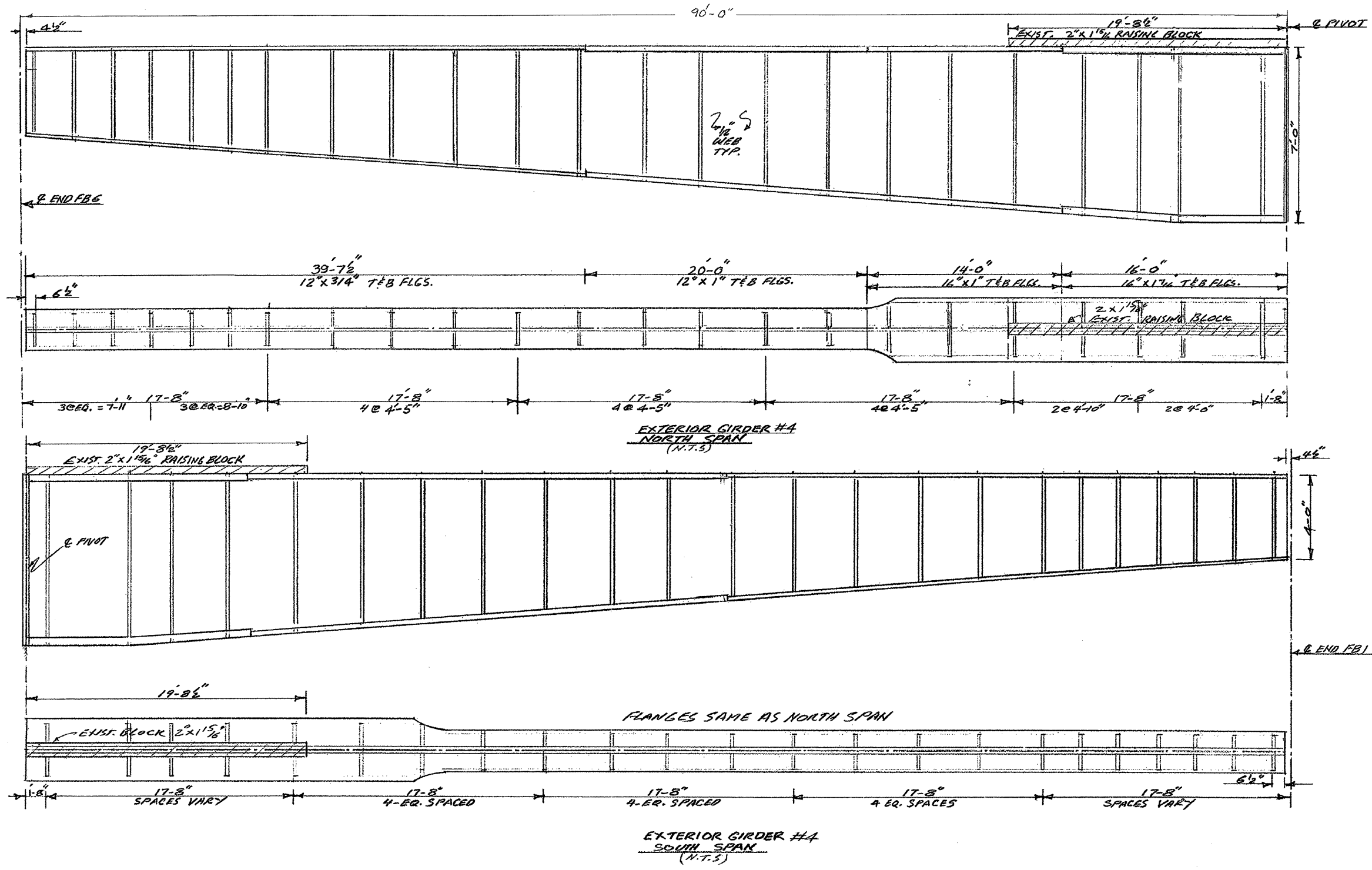
**WASHINGTON N.C., BEAUFORT CO.**  
**BRIDGE NO. 25 OVER PAMLICO RIVER**  
**EXISTING EXTERIOR GIRDER 1**

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

REVISIONS			
NO.	DATE	DESCRIPTION	BY

DATE: 2-13-07  
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 SHEET: S-12





WASHINGTON N.C., BEAUFORT CO.  
BRIDGE NO. 25 OVER PAMLICO RIVER

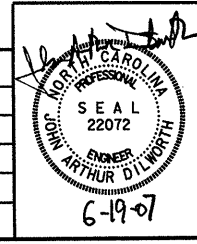
EXISTING EXTERIOR GIRDER 4

**WETHERILL ENGINEERING**  
559 Jones Franklin Rd. Suite 164  
Raleigh, N.C. 27606  
Bus: 919 851 8077  
Fax: 919 851 8107

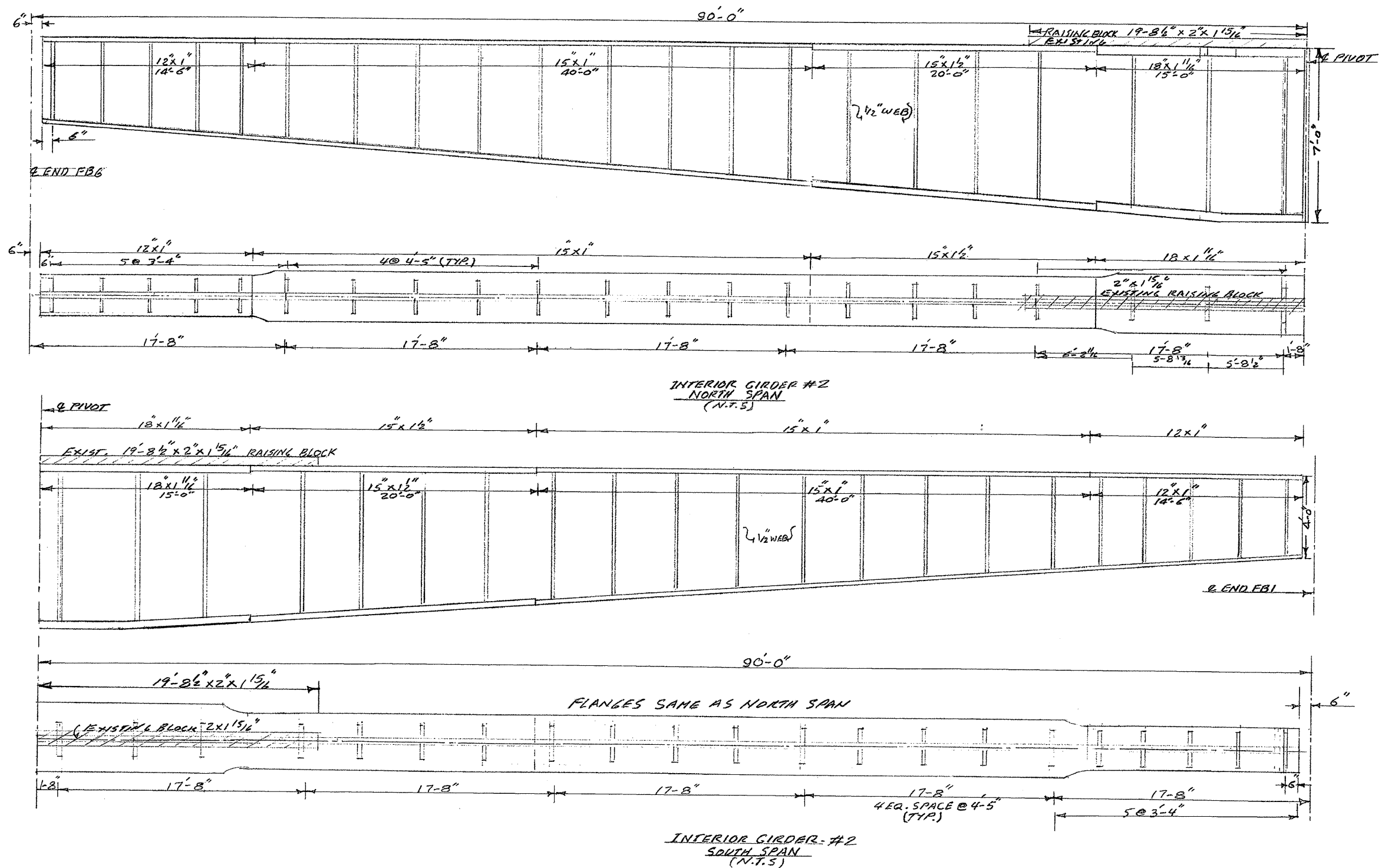
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

REVISIONS			
NO.	DATE	DESCRIPTION	BY

DATE: 2-13-07  
SCALE: NTS  
DRAWN: F MEHFAR  
CHECKED: JAD  
PROJ. NO.:  
SHEET: S-13



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WASHINGTON N.C., BEAUFORT CO.  
 BRIDGE NO. 25 OVER PAMLICO RIVER  
 EXISTING INTERIOR GIRDER 2

**WETHERILL ENGINEERING**  
 559 Jones Franklin Rd. Suite 164  
 Raleigh, N.C. 27606  
 Bus: 919 851 8077  
 Fax: 919 851 8107

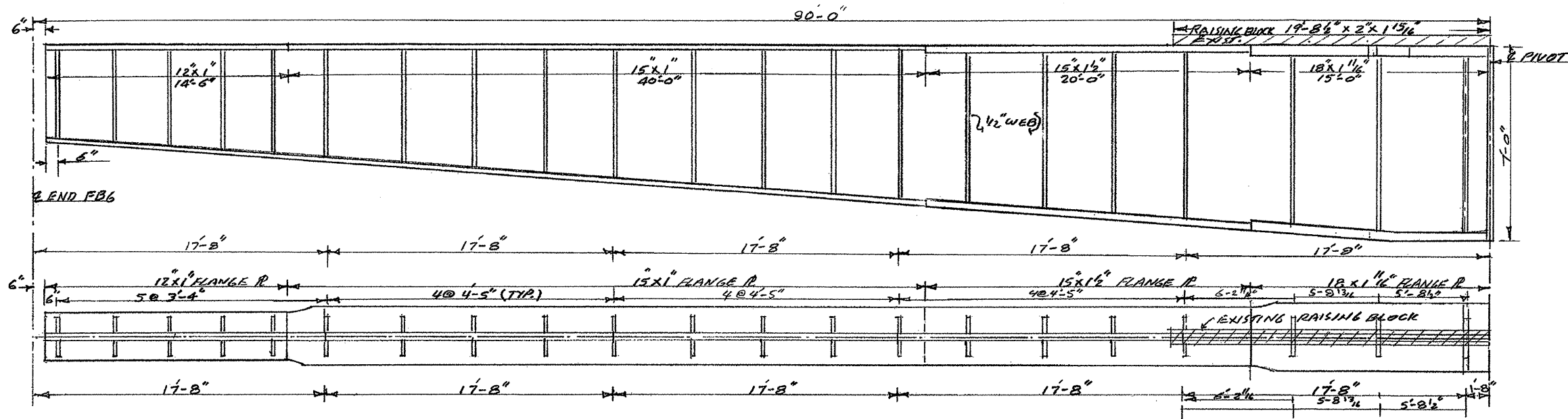
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 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

REVISIONS			
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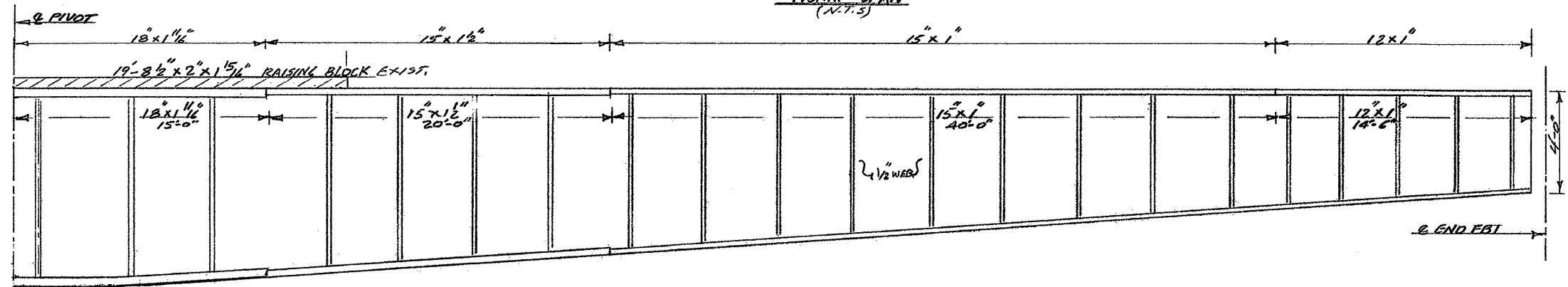
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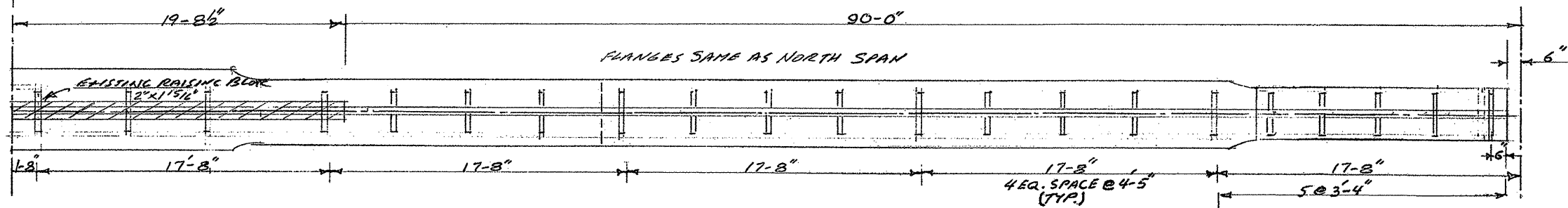
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INTERIOR GIRDER #3  
NORTH SPAN  
(N.T.S)



INTERIOR GIRDER #3  
SOUTH SPAN  
(N.T.S)



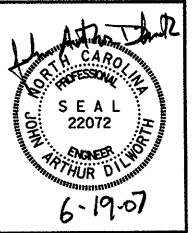
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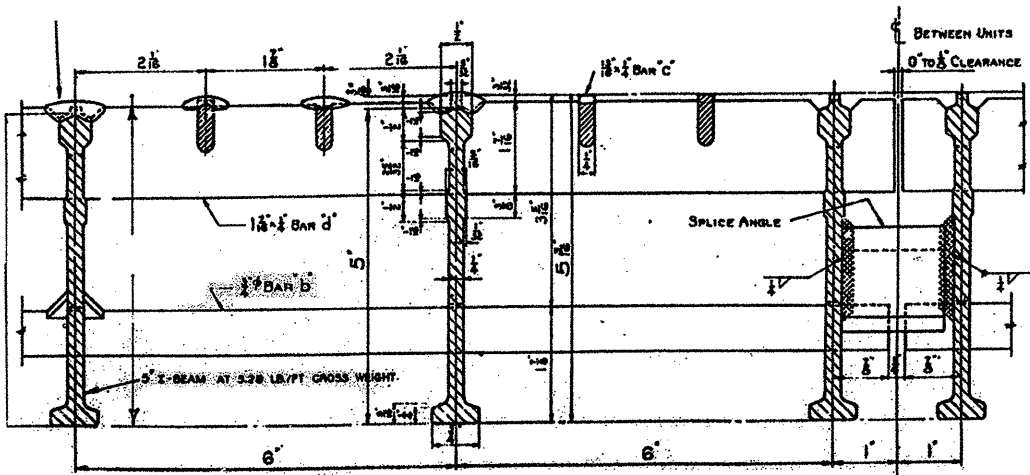
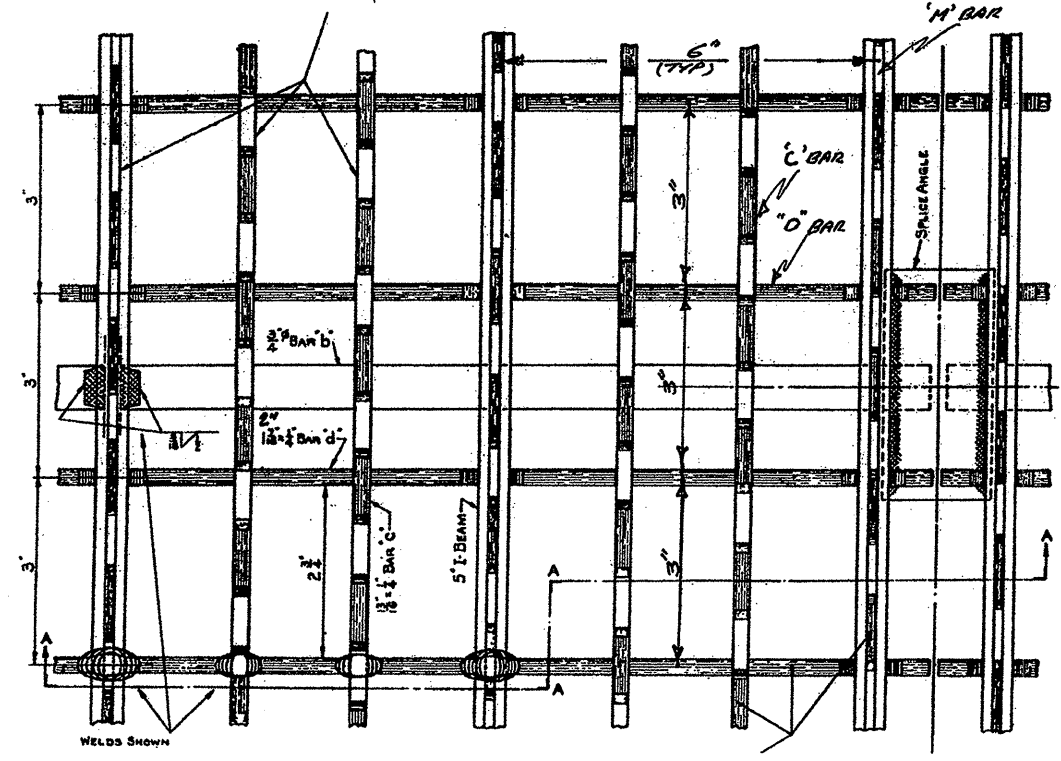
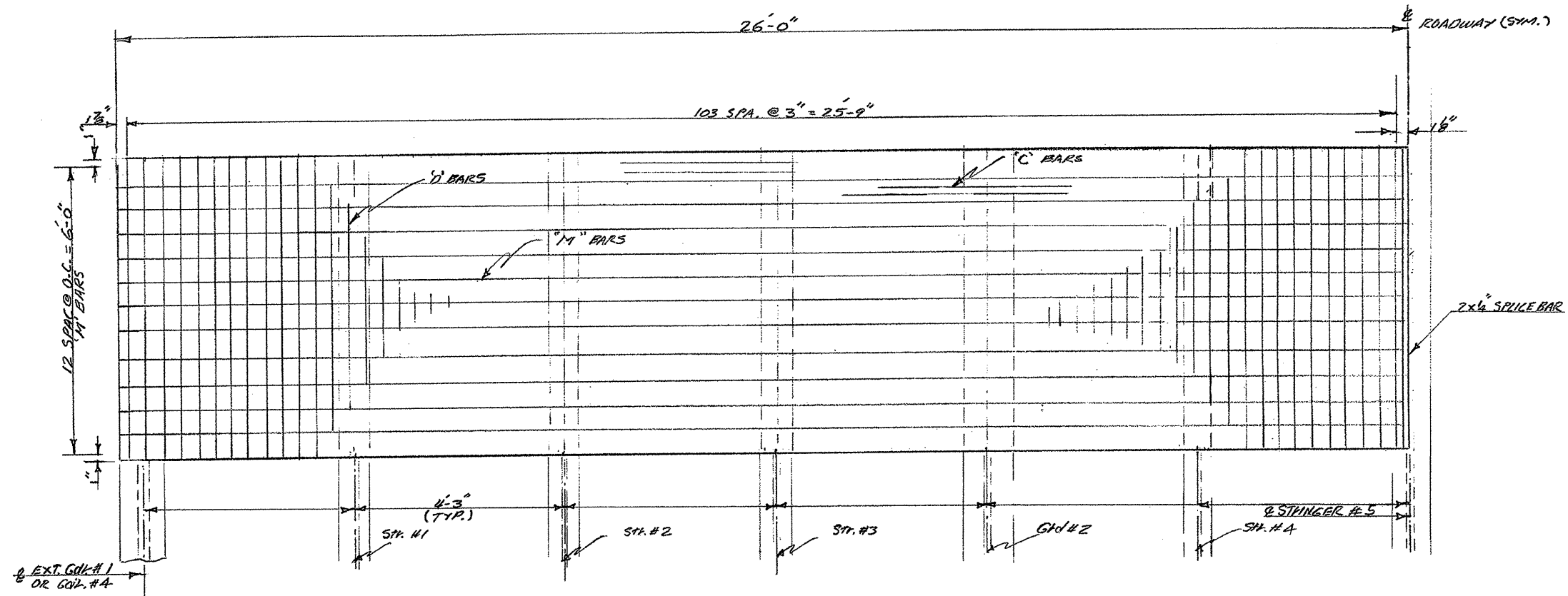
WASHINGTON N.C., BEAUFORT CO.  
BRIDGE NO. 25 OVER PAMLICO RIVER  
EXISTING INTERIOR GIRDER 3

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

REVISIONS			
NO.	DATE	DESCRIPTION	BY

DATE: 2-13-07  
SCALE: NTS  
DRAWN: F MEHFAR  
CHECKED: JAD  
PROJ. NO.:  
SHEET: S-15





NOTE:  
EXISTING GRID FLOOR  
TO BE REMOVED.  
GRIND ALL WELD  
KEEPS ON TOP  
FLANGES OF GIRDERS  
AND STRINGERS SMOOTH.

WASHINGTON N.C., BEAUFORT CO.  
BRIDGE NO. 25 OVER PAMLICO RIVER

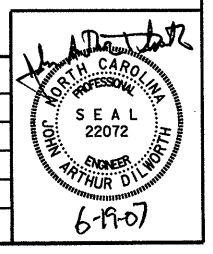
EXISTING GRID PANEL

**WETHERILL ENGINEERING**  
559 Jones Franklin Rd. Suite 164  
Raleigh, N.C. 27606  
Bus: 919 851 8077  
Fax: 919 851 8107

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

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NO.	DATE	DESCRIPTION	BY

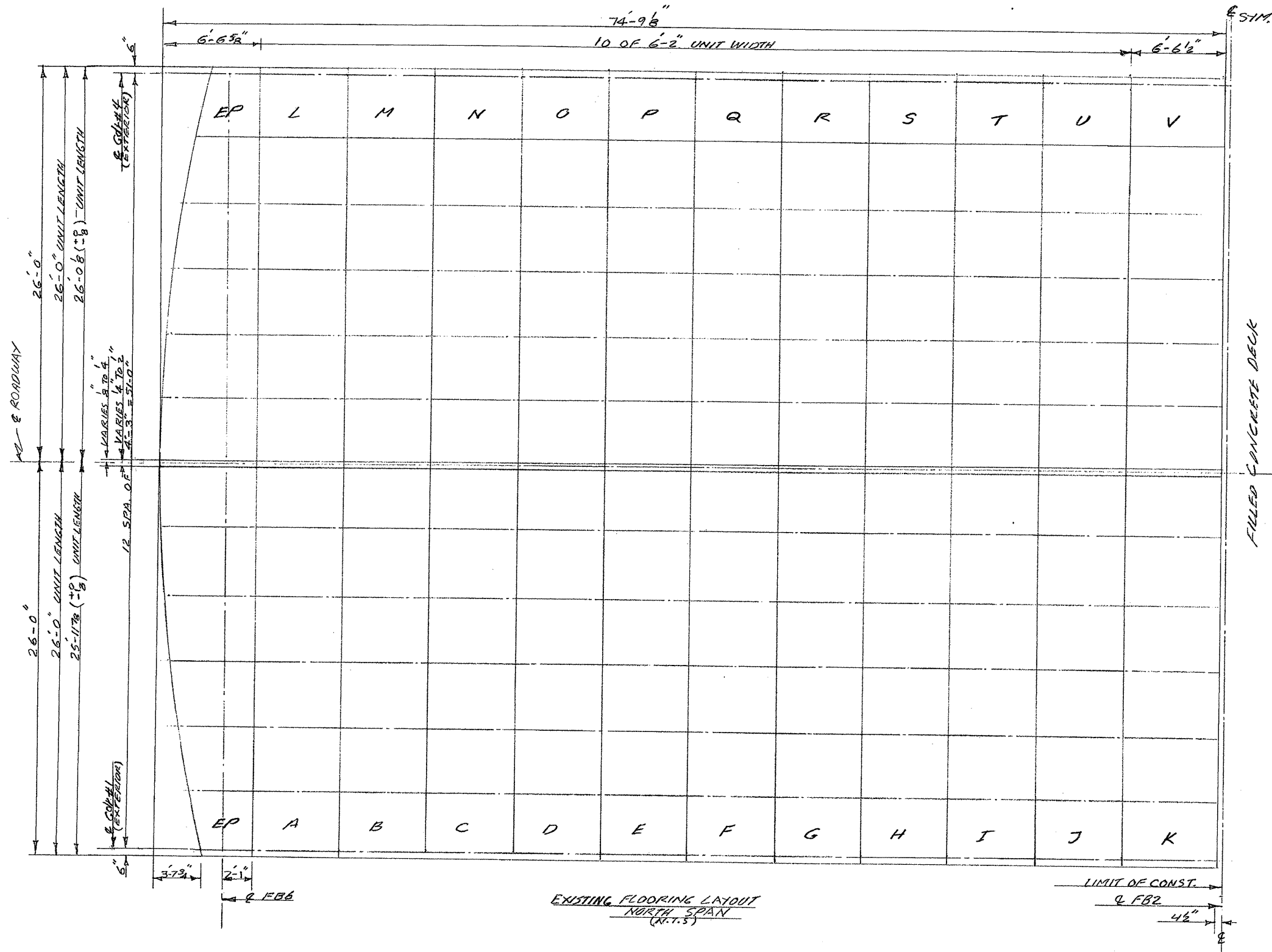
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WASHINGTON N.C., BEAUFORT CO.  
BRIDGE NO. 25 OVER PAMLICO RIVER

EXISTING LAYOUT - NORTH SPAN



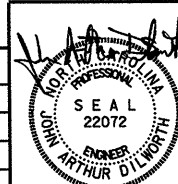
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Raleigh, N.C. 27606  
Bus: 919 851 8077  
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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

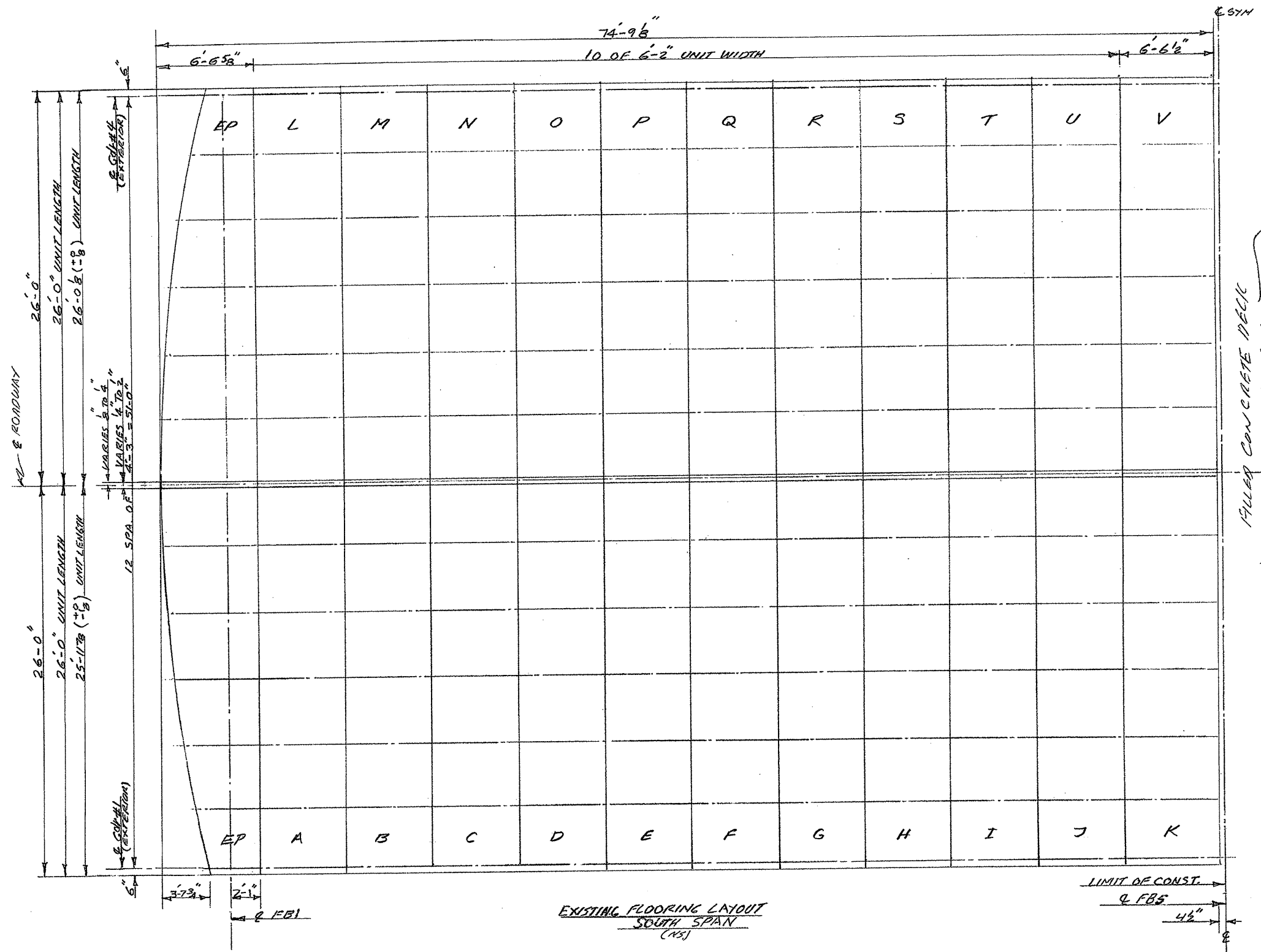
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6-19-07



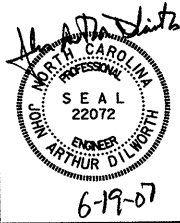
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**WASHINGTON N.C., BEAUFORT CO.**  
**BRIDGE NO. 25 OVER PAMLICO RIVER**  
**EXISTING LAYOUT - SOUTH SPAN**

**ETHERILL ENGINEERING**  
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 Raleigh, N.C. 27606  
 Bus: 919 851 8077  
 Fax: 919 851 8107  
 TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

REVISIONS			
NO.	DATE	DESCRIPTION	BY

DATE: 2-13-07  
 SCALE: NTS  
 DRAWN: F MEHFAR  
 CHECKED: JAD  
 PROJ. NO.:  
 SHEET: S-18



**HS 20 LOAD TABLE**

SECTION MODULUS (IN <sup>3</sup> /FT)		MAX. CONTINUOUS CLEAR SPAN (FT.)	APPROX. GRID WEIGHT (LBS/SF)
TOP STEEL	BOTTOM STEEL		
4.038	4.321	A-572	18.5

**WELDING PROCESS**

ALL WELDING TO BE DONE IN ACCORDANCE WITH AASHTO HIGHWAY & BRIDGE SPEC. A.W.S.D.1.5-

**MATERIAL SPECIFICATIONS**

M'BEAMS (5.518/FT.) TO BE A.S.T.M. A-572  
 C'BAR (1/4" x 2") TO BE A.S.T.M. A-572  
 DIAG. BARS (1/4" x 1") TO BE A.S.T.M. A-572  
 SUPPL. BARS (1/4" x 1") TO BE A.S.T.M. A-572  
 BOTTOM C'BAR (5/8") TO BE A.S.T.M. A-572

**FINISH SPECIFICATIONS**

PREP: } GALVANIZED  
 PAINT: }

**GALVANIZING SPECIFICATIONS**

MATERIAL TO BE HOT-DIP GALVANIZED AFTER FABRICATION AS PER A.S.T.M. A123 LATEST REVISION. PANELS NOT TO EXCEED 7'-8" WIDE WHEN GALVANIZING.

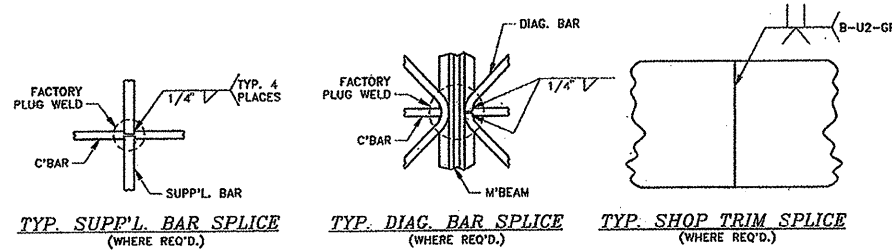
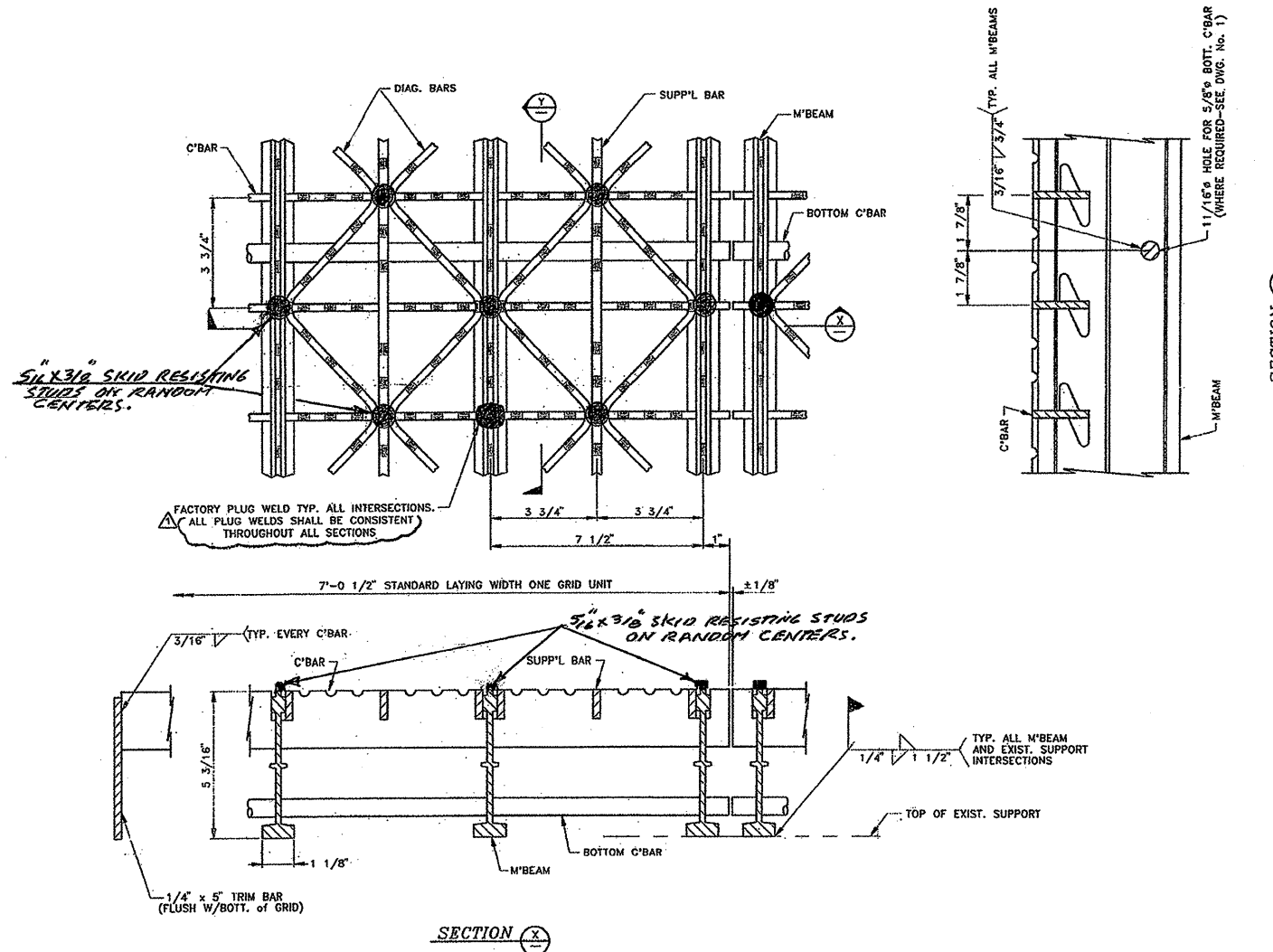
**NOTES**

THIS DRAWING TO BE USED AS A REFERENCE DRAWING ONLY. REFER TO DETAIL DRAWINGS FOR ACTUAL PANEL CHARACTERISTICS.

CONTRACTOR MAY REQUEST TO MAKE MINOR CHANGES FOR PRODUCT IMPROVEMENT.

ALL MATERIAL SUBJECT TO MILL/SHOP TOLERANCES.

SERRATIONS TO BE APPROXIMATELY 3/16" DEEP BY 3/8" WIDE ON RANDOM CENTERS.



**WASHINGTON N.C., BEAUFORT CO.  
 BRIDGE NO. 25 OVER PAMLICO RIVER**

**PROPOSED STEEL GRID FLOOR**



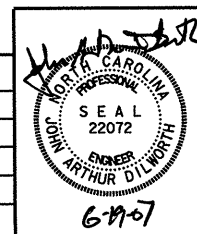
559 Jones Franklin Rd. Suite 164  
 Raleigh, N.C. 27606  
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 Fax: 919 851 8107

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

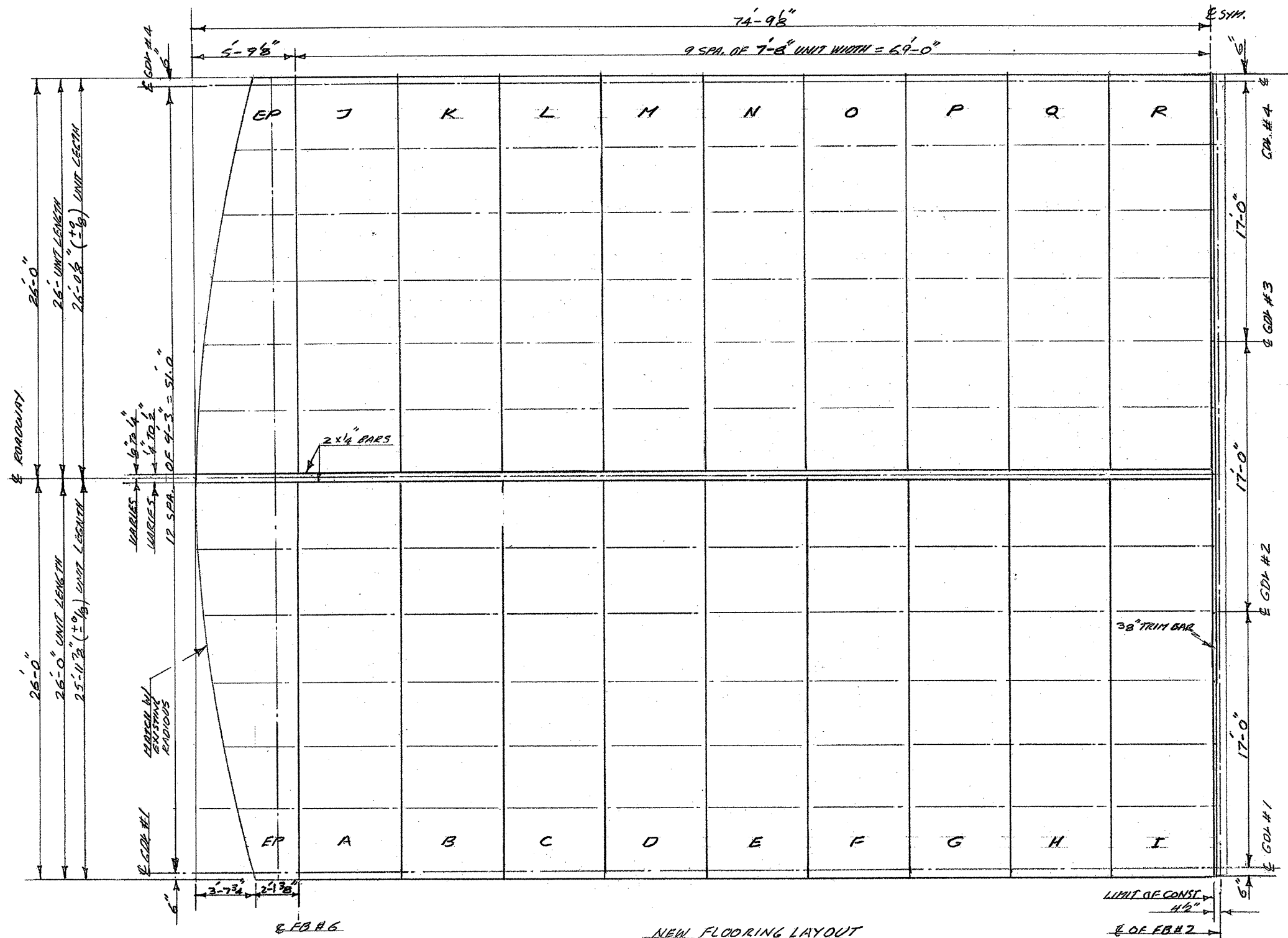
**REVISIONS**

NO.	DATE	DESCRIPTION	BY

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 PROJ. NO.:  
 SHEET: S-19



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NEW FLOORING LAYOUT  
NORTH SPAN  
(17.7.5)

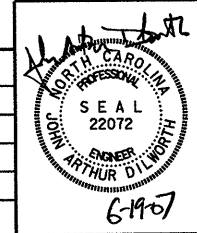
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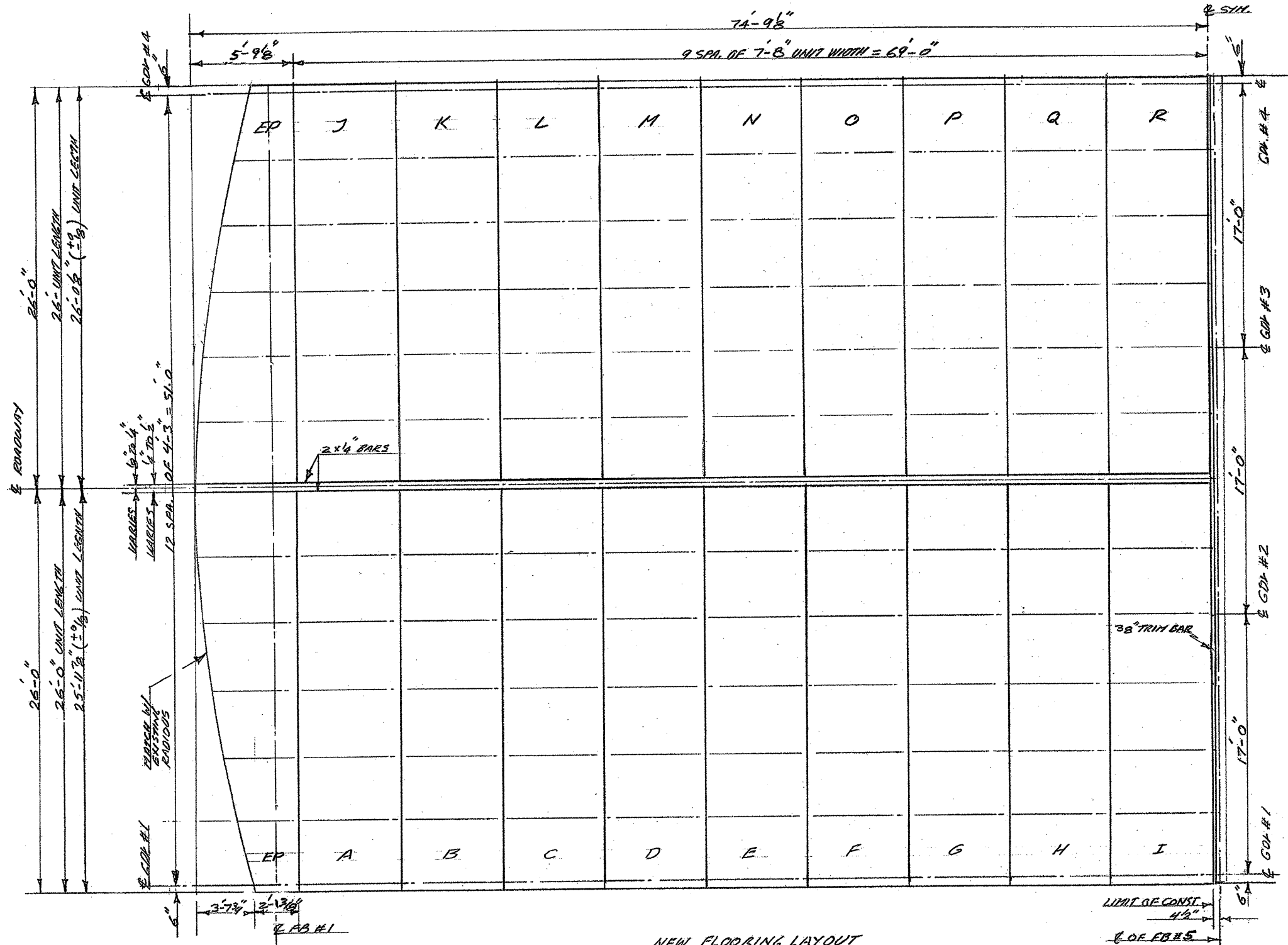
WASHINGTON N.C., BEAUFORT CO.  
BRIDGE NO. 25 OVER PAMLICO RIVER  
NEW FLOORING LAYOUT - NORTH SPAN

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REVISIONS			
NO.	DATE	DESCRIPTION	BY

DATE: 2-13-07  
SCALE: NTS  
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CHECKED: JAD  
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SHEET: S-20





FILLED CONCRETE DECK  
15 TO REMAIN

NEW FLOORING LAYOUT  
SOUTH SPAN  
(REV.)

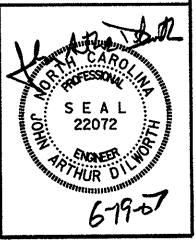
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WASHINGTON N.C., BEAUFORT CO.  
BRIDGE NO. 25 OVER PAMLICO RIVER  
NEW FLOORING LAYOUT - SOUTH SPAN

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Raleigh, N.C. 27606  
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Fax: 919 851 8107  
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

REVISIONS			
NO.	DATE	DESCRIPTION	BY

DATE: 2-13-07  
SCALE: NTS  
DRAWN: F MEHFAR  
CHECKED: JAD  
PROJ. NO.:  
SHEET: S-21



STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
R - 2 5 1 0 D	TCP-1

**PLAN FOR PROPOSED  
TRAFFIC CONTROL, MARKING & DELINEATION  
BEAUFORT COUNTY**

R-2510D

**ROADWAY STANDARD DRAWINGS**

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - ROADWAY DESIGN UNIT-N.C. DEPARTMENT OF TRANSPORTATION-RALEIGH, N.C., DATED JULY, 2006 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
862.01	GUARDRAIL PLACEMENT
862.02	GUARDRAIL INSTALLATION
862.03	STRUCTURE ANCHOR UNITS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW PANELS
1130.01	DRUM
1145.01	BARRICADES - TYPE III
1150.01	FLAGGING DEVICES
1165.01	TRUCK MOUNTED IMPACT ATTENUATOR
1180.01	SKINNY - DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES/OFFSETS
1205.02	PAVEMENT MARKINGS - ALL ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY
1261.01	GUARDRAIL AND BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATOR TYPES
1262.01	GUARDRAIL END DELINEATION

**INDEX OF SHEETS**

SHEET NO.	TITLE
TCP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND AND INDEX OF SHEETS
TCP-2	PROJECT NOTES
TCP-3	PHASING
TCP-4	EAST SIDE CONSTRUCTION DETAIL
TCP-5	CENTER SECTION CONSTRUCTION DETAIL
TCP-6	WEST SIDE CONSTRUCTION DETAIL
TCP-7	TEMPORARY LANE CLOSURES
TCP-7A	TEMPORARY CENTER LANE CLOSURES
TCP-8	TEMPORARY ROAD CLOSURES
TCP-9	ADVANCE WORK ZONE WARNING SIGNS
TCP-10	SIGN DESIGNS

**LEGEND**

- GENERAL**
- DIRECTION OF TRAFFIC FLOW
  - NORTH ARROW
  - PROPOSED PVMT. EXIST. PVMT.
  - WORK AREA
  - REMOVAL OF EXISTING PAVEMENT
- TRAFFIC CONTROL DEVICES**
- TYPE I BARRICADE
  - TYPE II BARRICADE
  - TYPE III BARRICADE
  - CONE
  - DRUM SKINNY DRUM
  - FLASHING ARROW PANEL (TYPE C)
  - STATIONARY SIGN
  - PORTABLE SIGN
  - STATIONARY OR PORTABLE SIGN
  - WARNING FLAGS
  - CRASH CUSHION
  - CHANGEABLE MESSAGE SIGN
  - TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
  - POLICE
  - FLAGGER
- PAVEMENT MARKINGS**
- CRYSTAL/CRYSTAL PAVEMENT MARKER
  - YELLOW/YELLOW PAVEMENT MARKER
  - CRYSTAL/RED PAVEMENT MARKER
  - PAVEMENT MARKING SYMBOLS

TIP PROJECT:

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kbroodwell AT WZ1C224240

APPROVED: DATE:	PLAN PREPARED BY: N.C.D.O.T. WORK ZONE TRAFFIC CONTROL UNIT
SEAL 	J. S. BOURNE, PE TRAFFIC CONTROL ENGINEER
	G. L. GETTIER, PE TRAFFIC CONTROL PROJECT ENGINEER
	JESSE GILSTRAP TRAFFIC CONTROL PROJECT DESIGN ENGINEER
	KEN BROADWELL TRAFFIC CONTROL DESIGN ENGINEER

# 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 AS DIRECTED BY THE ENGINEER.

### TIME RESTRICTIONS

- A) DO NOT PLACE TRAFFIC IN A ONE-LANE, TWO-WAY TRAFFIC PATTERN (SEE SHEET TCP-5) ON ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
1. US 17	MONDAY THRU SUNDAY 5:00 AM TO 11:00 PM

- B) DO NOT STOP TRAFFIC AS FOLLOWS OR AS DIRECTED BY THE ENGINEER:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
1. US 17	MONDAY THRU SUNDAY 6:00AM TO 9:00AM & 4:00PM TO 6:00PM	5 MINUTES/ AS DIRECTED BY THE ENGINEER

- C) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

### LANE AND SHOULDER CLOSURE REQUIREMENTS

- D) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED, OR AS DIRECTED BY THE ENGINEER.
- E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING 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.
- F) 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.

### TRAFFIC PATTERN ALTERATIONS

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

### SIGNING

- H) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- I) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

### TRAFFIC BARRIER

- J) INSTALL TEMPORARY BARRIER ACCORDING TO THE TRAFFIC CONTROL PLANS A MAXIMUM OF TWO (2) DAYS PRIOR TO BEGINNING WORK IN ANY LOCATION. ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION, PROCEED IN A CONTINUOUS MANNER TO COMPLETE THE PROPOSED WORK IN THAT LOCATION UNLESS OTHERWISE STATED IN THE TRAFFIC CONTROL PLANS OR AS DIRECTED BY THE ENGINEER.

ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION AND NO WORK IS PERFORMED BEHIND THE TEMPORARY BARRIER FOR A PERIOD LONGER THAN ONE (1) WEEK, REMOVE/RESET TEMPORARY BARRIER AT NO COST TO THE DEPARTMENT UNLESS OTHERWISE STATED IN THE TRAFFIC CONTROL PLANS, TEMPORARY BARRIER IS PROTECTING A HAZARD, OR AS DIRECTED BY THE ENGINEER.

INSTALL TEMPORARY BARRIER WITH THE TRAFFIC FLOW, BEGINNING WITH THE UPSTREAM SIDE OF TRAFFIC. REMOVE TEMPORARY BARRIER AGAINST THE TRAFFIC FLOW, BEGINNING WITH THE DOWNSTREAM SIDE OF TRAFFIC.

INSTALL AND SPACE DRUMS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH) TO CLOSE OR KEEP THE SECTION OF THE ROADWAY CLOSED UNTIL THE TEMPORARY BARRIER CAN BE PLACED OR AFTER THE TEMPORARY BARRIER IS REMOVED.

- K) PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER AT ALL TIMES DURING THE INSTALLATION AND REMOVAL OF THE BARRIER BY EITHER A TRUCK MOUNTED IMPACT ATTENUATOR (MAXIMUM 72 HOURS) OR A TEMPORARY CRASH CUSHION.

PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER FROM ONCOMING TRAFFIC AT ALL TIMES BY A TEMPORARY CRASH CUSHION UNLESS THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER IS OFFSET FROM ONCOMING TRAFFIC AS FOLLOWS OR AS SHOWN IN THE PLANS:

POSTED SPEED LIMIT	MINIMUM OFFSET
40 OR LESS	15 FT
45-50	20 FT
55	25 FT
60 MPH or HIGHER	30 FT

### TRAFFIC CONTROL DEVICES

- L) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY, WHEN LANE CLOSURES ARE NOT IN EFFECT. WHEN SKINNY DRUMS ARE ALLOWED REFER TO SECTION 1180 OF STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES OR AS SHOWN IN THE PLANS.
- M) PLACE TYPE III BARRICADES WITH "ROAD CLOSED" SIGN R11-2 ATTACHED OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- N) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES (DRUMS, OR SKINNY DRUMS) PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 300 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

### PAVEMENT MARKINGS AND MARKERS

- O) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME	MARKING	MARKER
1. US 17	PAINT	PERMANENT RAISED

- P) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:


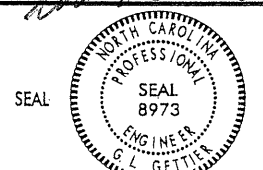


ROAD NAME	MARKING	MARKER
1. US 17	COLD APPLIED PLASTIC (TYPE IV, TAPE) OR PAINT AS DIRECTED BY THE ENGINEER	TEMPORARY RAISED

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

- R) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

### MISCELLANEOUS

- S) POLICE MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS, AS DIRECTED BY THE ENGINEER.
- T) ENGINEER WILL NOTIFY THE OVERSIZE/OVERWEIGHT PERMIT UNIT AT 919-733-4740 (MS. TAMMY C. DENNING AND/OR MS. GWEN HOBBY) TWO WEEKS PRIOR TO TRAFFIC BEING PLACED IN THE TWO-LANE, TWO-WAY TRAFFIC PATTERN (SEE PHASE I, STEPS 2 & 4); ONE-LANE, TWO-WAY TRAFFIC PATTERN (SEE PHASE I, STEP 3); AND WHEN TRAFFIC IS SHIFTED BACK TO THE EXISTING FOUR-LANE PATTERN.
- U) WHEN NOTIFIED ASSIST WIDE LOAD VEHICLES THRU THE WORK AREA. THIS ASSISTANCE MAY REQUIRE THAT TRAFFIC BE STOPPED IN ONE DIRECTION UNTIL THE WIDE LOAD VEHICLES HAVE CLEARED THE WORK AREA.

APPROVED: 	DATE: 2/15/07	<b>PROJECT NOTES</b>	
	SCALE: NONE		REVISIONS
	DATE: 6/07		
	DWG. BY: KPB		
	DESIGN BY: KPB		
	REVIEWED BY: JWC 		

# PHASING

PROJ. REFERENCE NO.	SHEET NO.
R-2510D	TCP-3

## PHASE I

**NOTES:** CONTRACTOR SHALL PERFORM ALL WORK AS SHOWN IN THE CONTRACT AND CONSTRUCTION PLANS IN ACCORDANCE WITH ALL COAST GUARD REGULATIONS & REQUIREMENTS.

ALL WORK AND LANE CLOSURE REQUIREMENTS WILL BE IN ACCORDANCE WITH THE "NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES - JULY 2006" AND THE FOLLOWING TCP SHEETS AS REQUIRED.

TCP-2 (PROJECT NOTES)  
TCP-4 THRU 8 (CONSTRUCTION DETAILS)  
TCP-9 & 10 (ADVANCE WORK ZONE WARNING SIGNS)

CONTRACTOR SHALL REVIEW AND RECORD THE EXISTING PAVEMENT MARKINGS AND MARKERS PRIOR TO CONSTRUCTION. USE THIS RECORD OF EXISTING PAVEMENT MARKINGS AND MARKERS IN CONJUNCTION WITH THE ROADWAY STANDARD DRAWINGS TO RE-ESTABLISH THE EXISTING PAVEMENT MARKINGS AND MARKERS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

ENGINEER WILL NOTIFY THE OVERSIZE/OVERWEIGHT PERMIT UNIT AT 919-733-4740 (MS. TAMMY C. DENNING AND/OR MS. GWEN HOBBY) TWO WEEKS PRIOR TO TRAFFIC BEING PLACED IN THE TWO-LANE, TWO-WAY TRAFFIC PATTERN (SEE PHASE I, STEPS 2 & 4); ONE-LANE, TWO-WAY TRAFFIC PATTERN (SEE PHASE I, STEP 3); AND WHEN TRAFFIC IS SHIFTED BACK TO THE EXISTING FOUR-LANE PATTERN.

CONTRACTOR SHALL, WHEN NOTIFIED, ASSIST WIDE LOAD VEHICLES THRU THE WORK AREA. THIS ASSISTANCE MAY REQUIRE THAT TRAFFIC BE STOPPED IN ONE DIRECTION UNTIL THE WIDE LOAD VEHICLES HAVE CLEARED THE WORK AREA.

**STEP 1:** CONTRACTOR SHALL PLACE ADVANCE WORK ZONE WARNING SIGNS ALONG EXISTING US 17 AND ALL -Y- LINES AS SHOWN ON SHEETS TCP-9 & 10 AND INSTALL CHANGEABLE MESSAGE SIGNS AS DIRECTED BY THE ENGINEER.

CONTRACTOR MAY WORK PHASE I, STEPS 2 AND 3 CONCURRENTLY, AS DIRECTED BY THE ENGINEER.

**STEP 2:** REPAIR/CONSTRUCTION OF PROPOSED EAST SIDE OF EXISTING BRIDGE:

A. CONTRACTOR SHALL, USING SHEETS TCP-4, 7 & 7A:

- REMOVE EXISTING PAVEMENT MARKINGS ON US 17 AND PLACE INTERMEDIATE PAVEMENT MARKINGS (TAPE/PAINT) & TEMPORARY RAISED PAVEMENT MARKERS AS SHOWN ON SHEET TCP-4.
- AS APPROVED BY THE ENGINEER INSTALL TEMPORARY GUARDRAIL AS SHOWN ON SHEET TCP-4.
- SHIFT TRAFFIC TO A TWO-LANE, TWO-WAY PATTERN ON THE WEST SIDE OF US 17 AS SHOWN ON SHEET TCP-4.

**NOTE:** CONTRACTOR SHALL PLACE TYPE III BARRICADES, SIGNS AND DRUMS TO KEEP EAST SIDE OF EXISTING BRIDGE AND SIDEWALK CLOSED TO TRAFFIC.

B. CONTRACTOR SHALL REPAIR/CONSTRUCT EAST SIDE OF EXISTING BRIDGE.

**NOTE:** CONTRACTOR MAY, AS MUCH AS POSSIBLE, PLACE INTERMEDIATE PAVEMENT MARKINGS (TAPE/PAINT) & TEMPORARY RAISED PAVEMENT MARKERS AS SHOWN ON SHEET TCP-6 FOR TEMPORARY TRAFFIC PATTERN IN PHASE I, STEP 4.

CONTRACTOR SHALL WORK IN PHASE I, STEP 3 IN THE ALLOTTED TIME AS STATED ON SHEET TCP-2, GENERAL NOTE "A". **NOTE:** CONTRACTOR MAY REPEAT PHASE I, STEP 3 UNTIL REQUIRED REPAIR/CONSTRUCTION OF CENTER SECTION IS COMPLETED AS DIRECTED BY THE ENGINEER.

**STEP 3:** REPAIR/CONSTRUCTION OF CENTER SECTION OF EXISTING BRIDGE:

A. CONTRACTOR SHALL, USING SHEETS TCP-5 & 8:

**NOTE:** AS DIRECTED BY THE ENGINEER AND USING A "PILOT CAR FOLLOW ME" VEHICLE THE CONTRACTOR SHALL UTILIZE THE EXISTING SIGNAL WITH FLAGGERS & POLICE (IF AVAILABLE) NORTH OF THE BRIDGE TO CONTROL US 17 SOUTHBOUND TRAFFIC, AND FLAGGERS & POLICE (IF AVAILABLE) TO CONTROL US 17 NORTHBOUND TRAFFIC AS SHOWN ON SHEET TCP-8.

- PLACE TRAFFIC INTO A ONE-LANE, TWO-WAY PATTERN ON THE OUTSIDE LANE OF SOUTHBOUND US 17 (UTILIZING DRUMS), REMOVE ENOUGH POSITIVE PROTECTION DEVICES UTILIZED IN PHASE I, STEP 2 TO MAKE THE REQUIRED REPAIRS/CONSTRUCTION (SEE SHEET TCP-5).
- REPAIR/CONSTRUCT CENTER SECTION OF EXISTING BRIDGE, AS DIRECTED BY THE ENGINEER.
- RE-SET POSITIVE PROTECTION DEVICES BACK TO ORIGINAL INSTALLED LOCATION IN PHASE I, STEP 2 AT THE END OF EACH WORK PERIOD (SEE SHEET TCP-4).

B. CONTRACTOR SHALL PLACE TRAFFIC BACK INTO THE TWO-LANE, TWO-WAY PATTERN OF PHASE I, STEP 2 (SEE SHEET TCP-4).

**STEP 4:** REPAIR/CONSTRUCTION OF WEST SIDE OF EXISTING BRIDGE:

A. CONTRACTOR SHALL, USING SHEETS TCP-6, 7 & 7A:

- REMOVE EXISTING PAVEMENT MARKINGS ON US 17 AND PLACE INTERMEDIATE PAVEMENT MARKINGS (TAPE/PAINT) & TEMPORARY RAISED PAVEMENT MARKERS AS SHOWN ON SHEET TCP-6.
- AS APPROVED BY THE ENGINEER REMOVE AND RESET TEMPORARY GUARDRAIL AS SHOWN ON SHEET TCP-6.
- SHIFT TRAFFIC TO A TWO-LANE, TWO-WAY PATTERN ON THE EAST SIDE OF US 17 AS SHOWN ON SHEET TCP-6.

**NOTE:** CONTRACTOR SHALL PLACE TYPE III BARRICADES, SIGNS AND DRUMS TO KEEP WEST SIDE OF EXISTING BRIDGE AND SIDEWALK CLOSED TO TRAFFIC.

B. CONTRACTOR SHALL REPAIR/CONSTRUCT WEST SIDE OF EXISTING BRIDGE.

C. CONTRACTOR SHALL PLACE FINAL PAVEMENT MARKINGS (PAINT) AND PERMANENT RAISED PAVEMENT MARKERS ON NEWLY COMPLETED WEST SIDE OF BRIDGE AND ROADWAY FOR EXISTING TRAFFIC PATTERN.

**STEP 5:** PLACING FINAL PAVEMENT MARKINGS AND MARKERS ON EAST SIDE OF BRIDGE.

A. CONTRACTOR SHALL, USING SHEET TCP-7 & 7A:

- SHIFT SOUTHBOUND US 17 TRAFFIC TO OUTSIDE LANE OF NEWLY COMPLETED WEST SIDE OF BRIDGE, AND KEEP NORTHBOUND US 17 TRAFFIC IN OUTSIDE LANE ON EAST SIDE OF BRIDGE.

**NOTE:** CONTRACTOR SHALL PLACE TYPE III BARRICADES, SIGNS AND DRUMS TO KEEP THE TWO CENTER LANES CLOSED TO TRAFFIC.


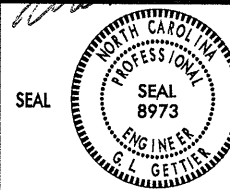

- REMOVE POSITIVE PROTECTION DEVICES AND PLACE FINAL PAVEMENT MARKINGS (PAINT) AND PERMANENT RAISED PAVEMENT MARKERS ON EAST SIDE OF BRIDGE AND ROADWAY FOR EXISTING TRAFFIC PATTERN.

- PLACE FINAL PAVEMENT MARKINGS (PAINT) AND PERMANENT RAISED PAVEMENT MARKERS ON EAST SIDE OF BRIDGE AND ROADWAY FOR EXISTING TRAFFIC PATTERN.

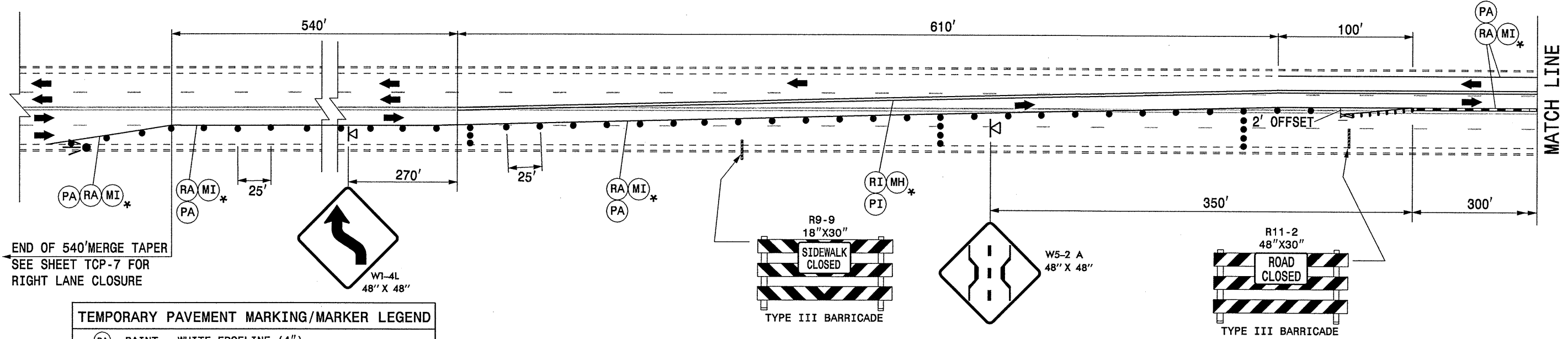
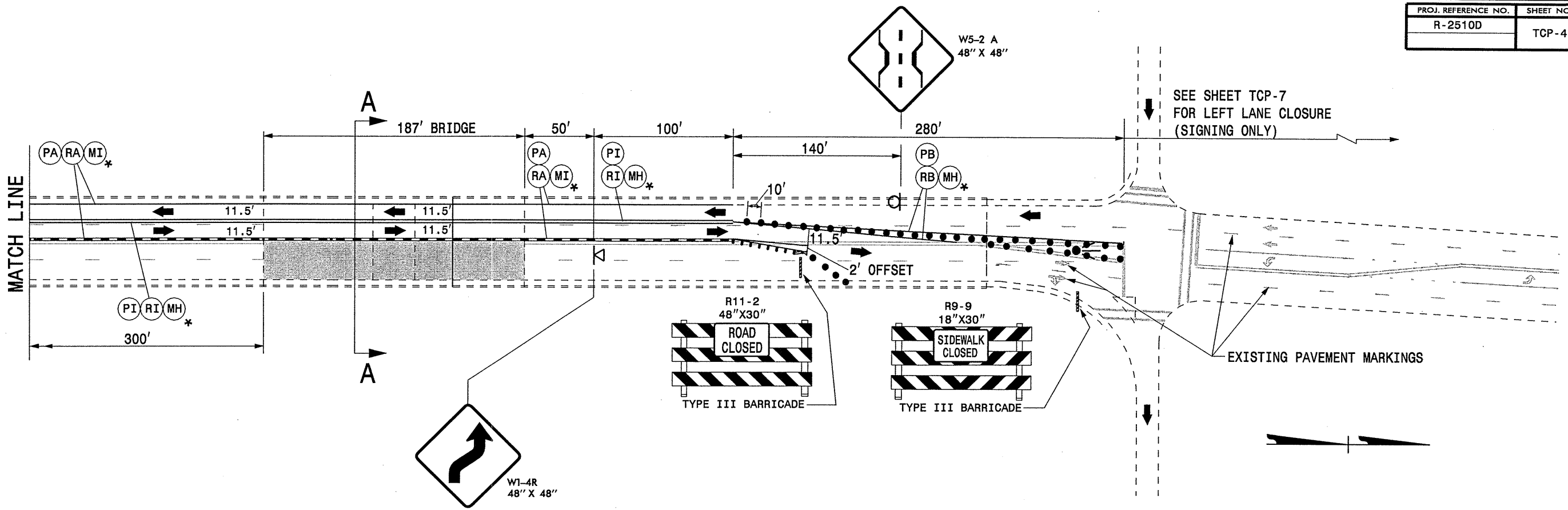
B. CONTRACTOR SHALL OPEN US 17 TO EXISTING FOUR-LANE, TWO-WAY PATTERN.

C. CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES.

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kbrodwell AT WZTC24240

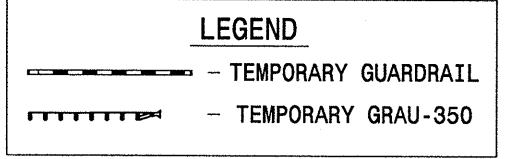
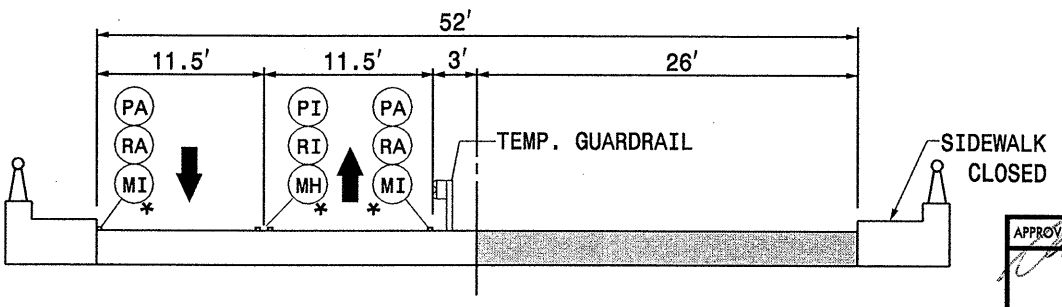
APPROVED: 	DATE: 6/21/07	PHASING	
SEAL 			
SCALE: NONE	DATE: 6/07		REVISIONS
DESIGN BY: KPB	REVIEWED BY: JWG		
DESIGN BY: KPB			





**TEMPORARY PAVEMENT MARKING/MARKER LEGEND**

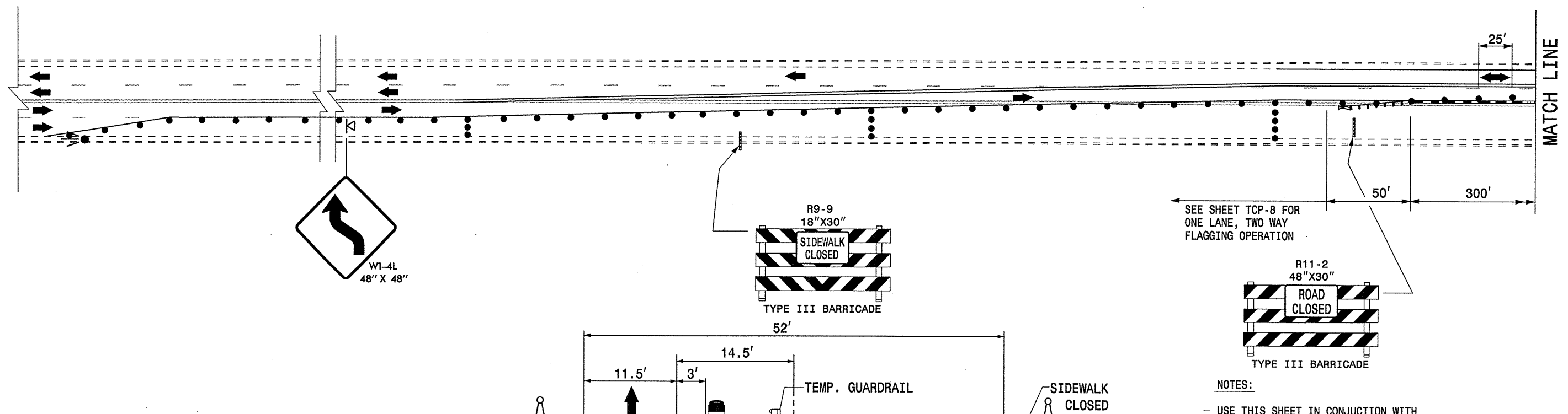
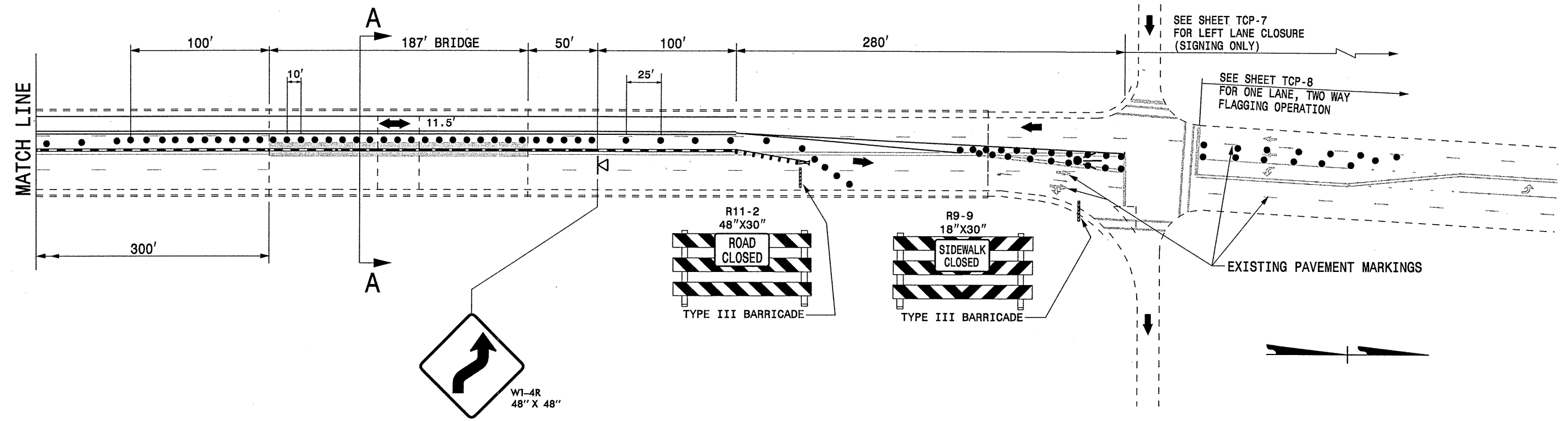
- (PA) PAINT - WHITE EDGELINE (4")
- (PB) PAINT - YELLOW EDGELINE (4")
- (PD) PAINT - WHITE MINISKIP (4")
- (PI) PAINT - DOUBLE YELLOW CENTERLINE (4")
- (RA) COLD APPLIED PLASTIC TYPE 4 (REM. TAPE) WHITE EDGELINE (4")
- (RB) COLD APPLIED PLASTIC TYPE 4 (REM. TAPE) YELLOW EDGELINE (4")
- (RD) COLD APPLIED PLASTIC TYPE 4 (REM. TAPE) WHITE MINISKIP (4")
- (RI) COLD APPLIED PLASTIC TYPE 4 (REM. TAPE) DOUBLE YELLOW CENTERLINE (4")
- (MH) TEMPORARY RAISED PAVEMENT MARKER YELLOW/YELLOW
- (MI) TEMPORARY RAISED PAVEMENT MARKER CRYSTAL/CRYSTAL



\* PLACE ALL TEMPORARY RAISED PAVEMENT MARKERS ON 20' CENTERS

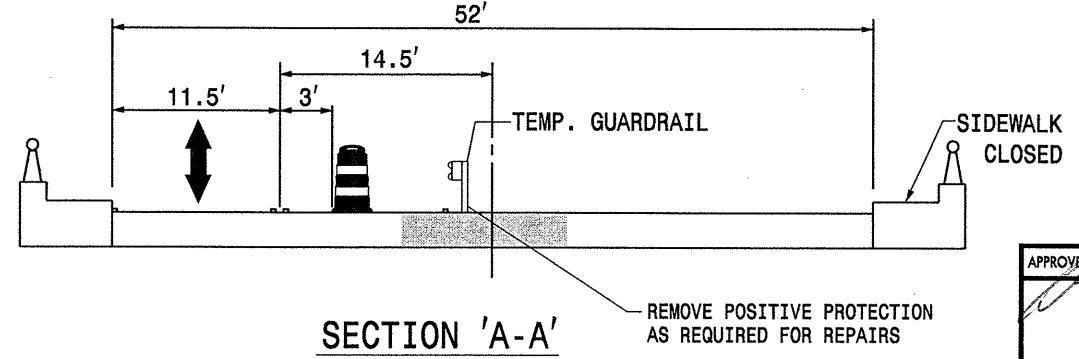
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REVISIONS							
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**LEGEND**

	TEMPORARY GUARDRAIL
	TEMPORARY GRAU-350



NOTES:  
- USE THIS SHEET IN CONJUNCTION WITH SHEET TCP-4.

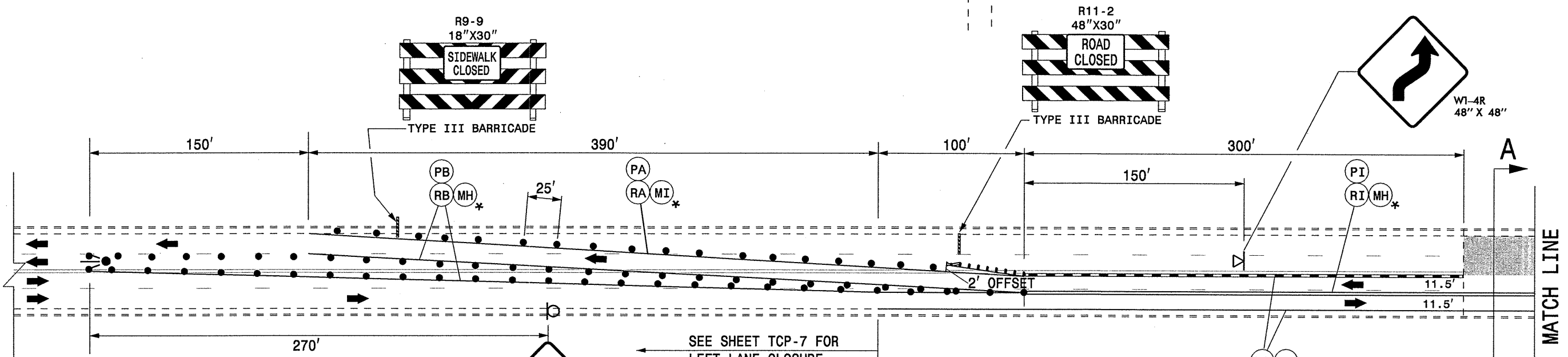
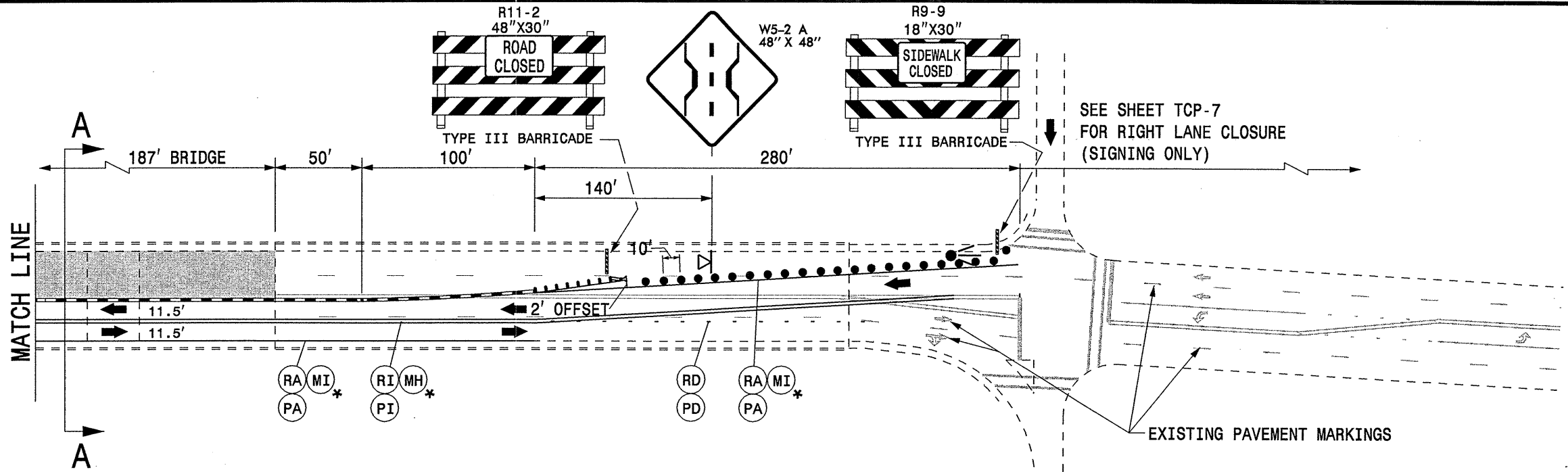
APPROVED: DATE: 2/28/07

SEAL:

**CENTER SECTION CONSTRUCTION DETAIL**

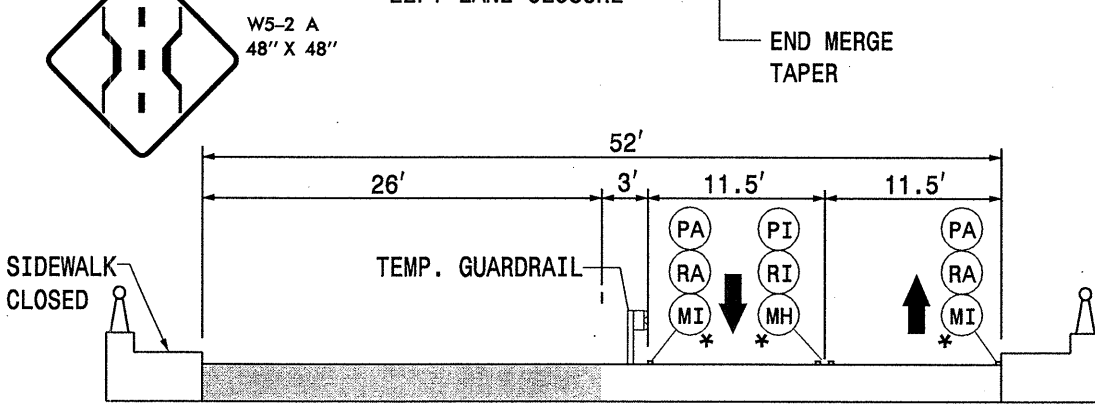
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DATE: 6/07		
DWG. BY: KPB		
DESIGN BY: JWG		
REVIEWED BY: GLG		

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**TEMPORARY PAVEMENT MARKING/MARKER LEGEND**

(PA)	PAINT - WHITE EDGELINE (4")
(PB)	PAINT - YELLOW EDGELINE (4")
(PD)	PAINT - WHITE MINISKIP (4")
(PI)	PAINT - DOUBLE YELLOW CENTERLINE (4")
(RA)	COLD APPLIED PLASTIC TYPE 4 (REM. TAPE) WHITE EDGELINE (4")
(RB)	COLD APPLIED PLASTIC TYPE 4 (REM. TAPE) YELLOW EDGELINE (4")
(RD)	COLD APPLIED PLASTIC TYPE 4 (REM. TAPE) WHITE MINISKIP (4")
(RI)	COLD APPLIED PLASTIC TYPE 4 (REM. TAPE) DOUBLE YELLOW CENTERLINE (4")
(MH)	TEMPORARY RAISED PAVEMENT MARKER YELLOW/YELLOW
(MI)	TEMPORARY RAISED PAVEMENT MARKER CRYSTAL/CRYSTAL



**LEGEND**

	TEMPORARY GUARDRAIL
	TEMPORARY GRAU-350

APPROVED: DATE: 7/10/07

SEAL:

**WEST SIDE CONSTRUCTION DETAIL**

SCALE: NONE	REVISIONS
DATE: 6/07	
DWG. BY: KPB	
DESIGN BY: JWG	
REVIEWED BY: GLG	

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STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

7-06

ENGLISH STANDARD DRAWING FOR  
**TEMPORARY LANE CLOSURES**  
DIVIDED MULTI-LANE ROADWAY - 1 LANE CLOSED

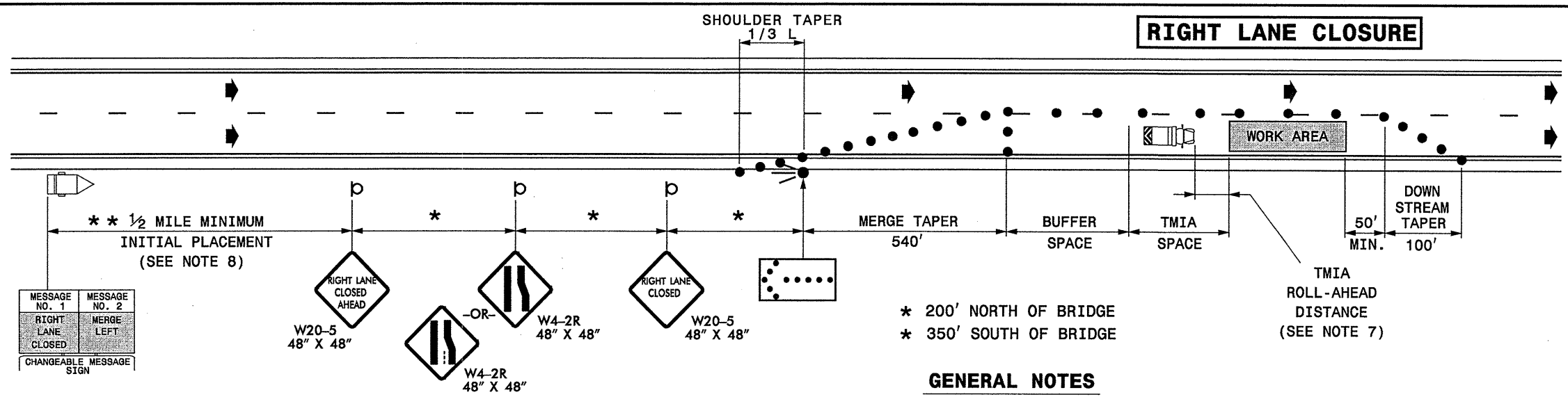
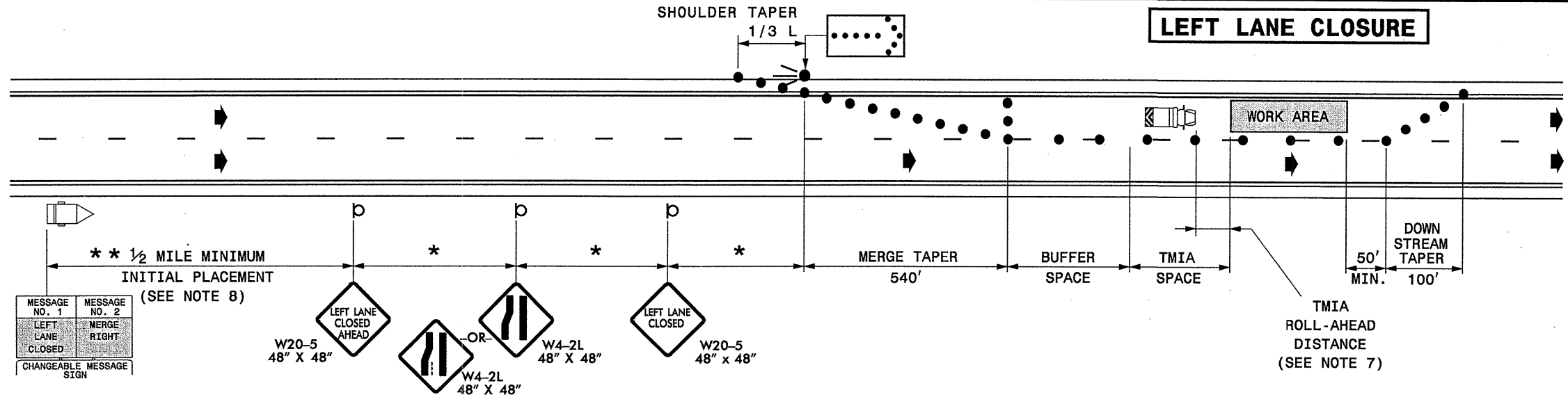
SHEET 3 OF 3  
**1101.02**

STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

7-06

ENGLISH STANDARD DRAWING FOR  
**TEMPORARY LANE CLOSURES**  
DIVIDED MULTI-LANE ROADWAY - 1 LANE CLOSED

SHEET 3 OF 3  
**1101.02**



**GENERAL NOTES**

- 1- IF NECESSARY USE THIS STD. FOR ONE-WAY CITY TYPE STREETS WHERE SIGNS MAY BE MOUNTED ON BOTH SIDES OF THE ROADWAY.
- 2- PLACE ARROW PANELS ON THE SHOULDER (PAVED OR UNPAVED). PLACE ARROW PANELS WITHIN THE TAPER IF SHOULDERS DO NOT EXIST. MEET THE REQUIREMENTS FOR STOPPING SIGHT DISTANCE AT THE ARROW PANEL LOCATION. IF NEEDED, EXTEND LANE CLOSURES AT THE BUFFER SPACE, SUCH THAT STOPPING SIGHT DISTANCE TO THE ARROW PANEL IS MET. (SEE STD. 1101.11 SHEET 2)
- 3- PLACE DRUMS IN TAPERS AT THE MAXIMUM SPACING EQUAL IN FEET TO THE POSTED SPEED LIMIT. PLACE DRUMS ALONG THE BUFFER SPACE AND WORK AREA AT THE MAXIMUM SPACING EQUAL IN FEET TO 2 TIMES THE POSTED SPEED LIMIT.
- 4- REFER TO STD. 1101.11 SHEETS 1 & 4, FOR "L" DISTANCE AND SIGN SPACING.
- 5- REFER TO STD. 1101.02 SHEETS 6 AND 7 FOR TREATMENT OF LANE CLOSURES THRU INTERCHANGES.
- 6- 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.
- 7- TMIA'S ARE REQUIRED ONLY WHEN A BUFFER SPACE CANNOT BE ATTAINED, OR WHEN DIRECTED BY THE ENGINEER OR THE PLANS. WHEN USED, POSITION THE TMIA TO MAINTAIN A ROLL-AHEAD DISTANCE AS RECOMMENDED BY THE MANUFACTURER.
- 8- PLACE CHANGEABLE MESSAGE SIGN (CMS) ON THE OUTSIDE OF THE TRAVELWAY AS DIRECTED BY THE ENGINEER. PLACE CMS APPROXIMATELY 1/2 MILE IN ADVANCE OF THE W20-5 SIGNS. IF TRAFFIC BACKS UP TO WHERE THE CMS IS INITIALLY PLACED, RELOCATE CMS 1/2 MILE FROM ANTICIPATED BACKUP. CONTINUE TO MONITOR TRAFFIC, MOVE CMS APPROXIMATELY 1/2 MILE IN CONJUNCTION WITH ANTICIPATED BACKUP.
- 9- MESSAGES MAY READ "LEFT LANE CLOSED" OR "RIGHT LANE CLOSED", "MERGE RIGHT" OR "MERGE LEFT" DEPENDING ON LANE BEING CLOSED.

\*\* USE 1/2 MILE SOUTH OF BRIDGE; FOR NORTH OF BRIDGE USE AS DIRECTED BY THE ENGINEER

**LEGEND**

	FLASHING ARROW PANEL (TYPE C)
	TRUCK MOUNTED IMPACT ATTENUATOR(TMIA)
	CHANGEABLE MESSAGE SIGN (CMS)
	DRUM
	PORTABLE OR STATIONARY SIGN
	DIRECTION OF TRAFFIC FLOW

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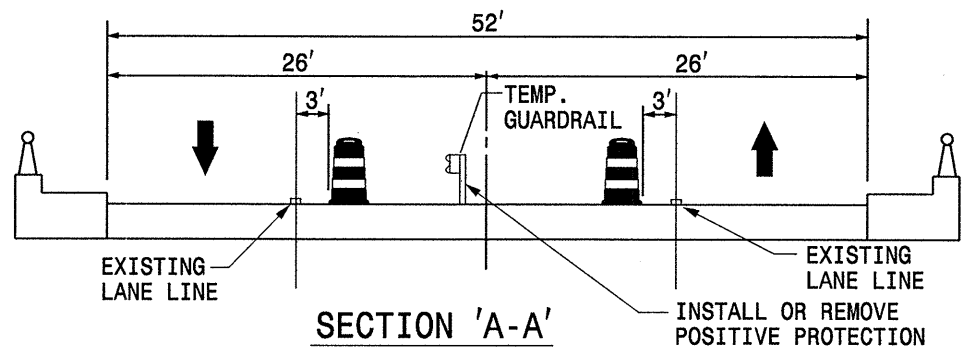
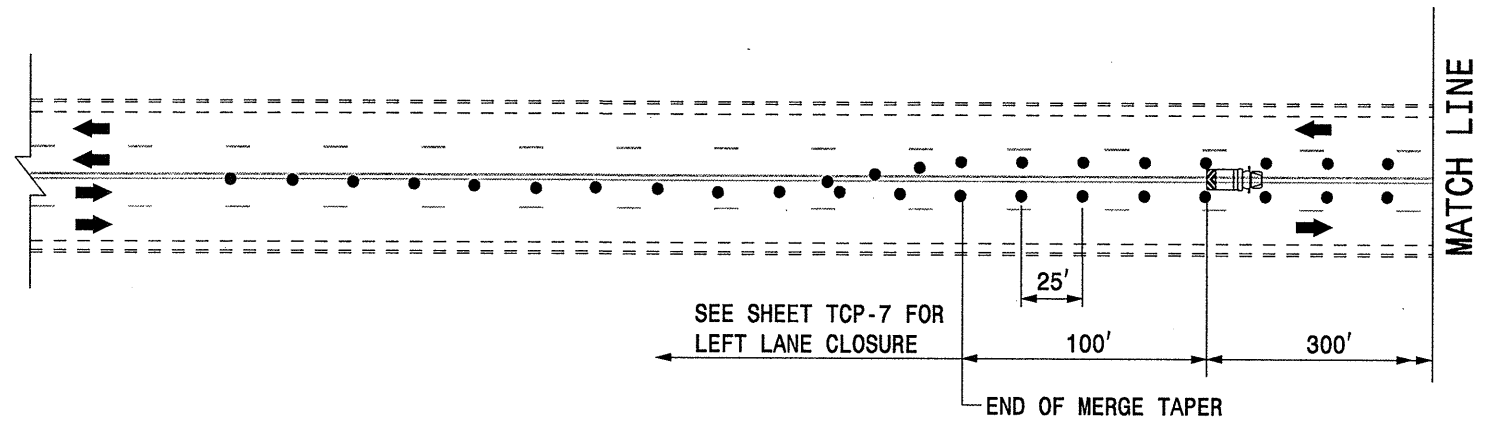
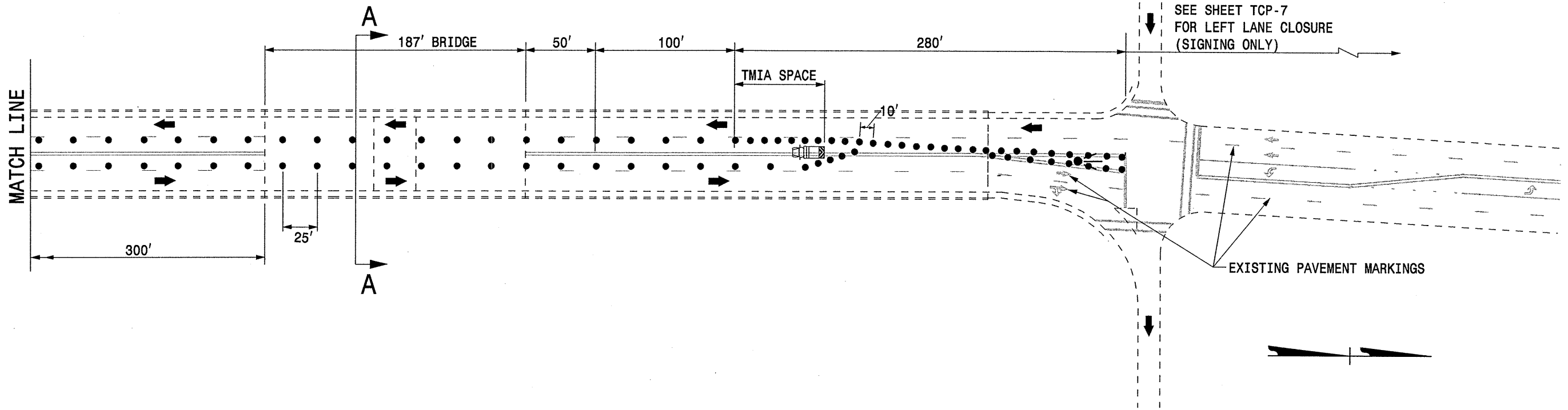
APPROVED: DATE: 21 Jan 07

**TEMPORARY LANE CLOSURES**

SCALE: NONE	REVISIONS
DATE: 6/07	
DWG. BY: KPB	
DESIGN BY: KPB	
REVIEWED BY: JWG	

SEAL:

CAD FILE



LEGEND	
	TEMPORARY GUARDRAIL
	TEMPORARY GRAU-350

APPROVED:	DATE: 7/1/07	<b>TEMPORARY LANE CLOSURES OUTSIDE TWO LANES</b>	
SEAL 	SCALE: NONE		
	DATE: 6/07		
	DWG. BY: KPB		
	DESIGN BY: JWG		
	REVIEWED BY: GLG		

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STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

7-06

ENGLISH STANDARD DRAWING FOR  
**TEMPORARY ROAD CLOSURES**  
SHORT TERM- FOR 2 LANE, 2 WAY ROADWAYS

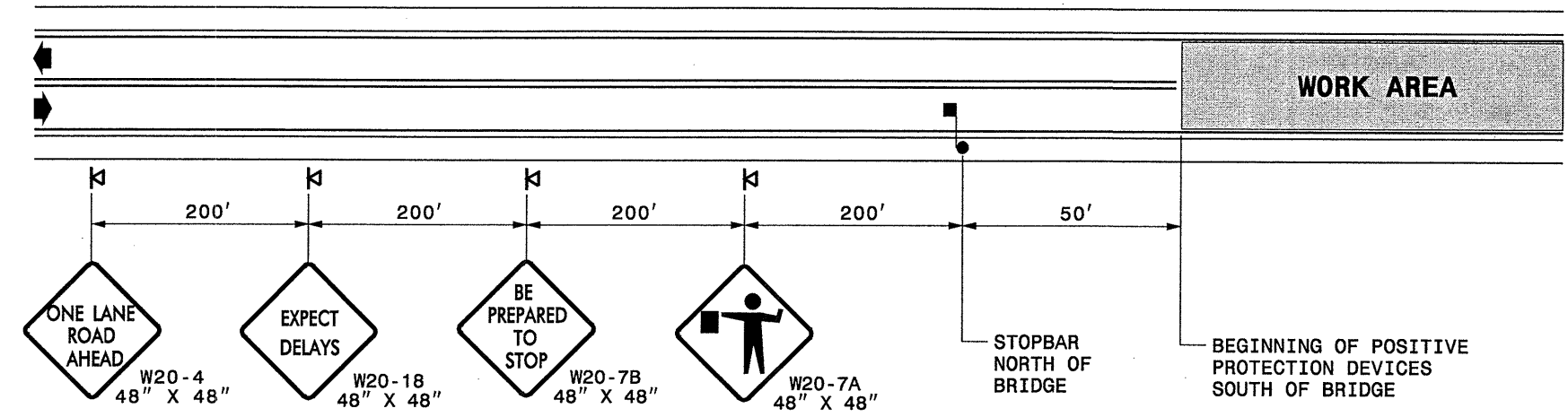
SHEET 8 OF 8  
**1101-03**

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DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

7-06

ENGLISH STANDARD DRAWING FOR  
**TEMPORARY ROAD CLOSURES**  
SHORT TERM- FOR 2 LANE, 2 WAY ROADWAYS

SHEET 8 OF 8  
**1101-03**



**GENERAL NOTES**

- 1-USE THIS DETAIL FOR OPERATIONS SUCH AS ERECTION AND REMOVAL OF OVERHEAD SIGNS, BRIDGE GIRDERS, OR OTHER TYPES OF CONSTRUCTION WHERE THE ENTIRE TRAVELWAY MUST BE CLOSED TO TRAFFIC.
- 2-IMPLEMENT THIS TYPE OF ROAD CLOSURE DURING PERIODS OF LOW TRAFFIC VOLUMES. DEplete THE EXISTING TRAFFIC QUEUE BEFORE REclosing THE ROADWAY TO TRAFFIC IF MULTIPLE CLOSURES ARE REQUIRED.
- 3-TRAFFIC CONTROL DEVICES ARE SHOWN FOR ONE DIRECTION OF TRAFFIC APPROACHING THE ROAD CLOSURE, THE SAME DEVICES APPLY FOR THE OPPOSITE TRAFFIC DIRECTION.

**LEGEND**

- PORTABLE SIGN
- FLAGGER OR POLICE OFFICER
- DIRECTION OF TRAFFIC FLOW

APPROVED: DATE: 2/15/07

**TEMPORARY ROAD CLOSURES**

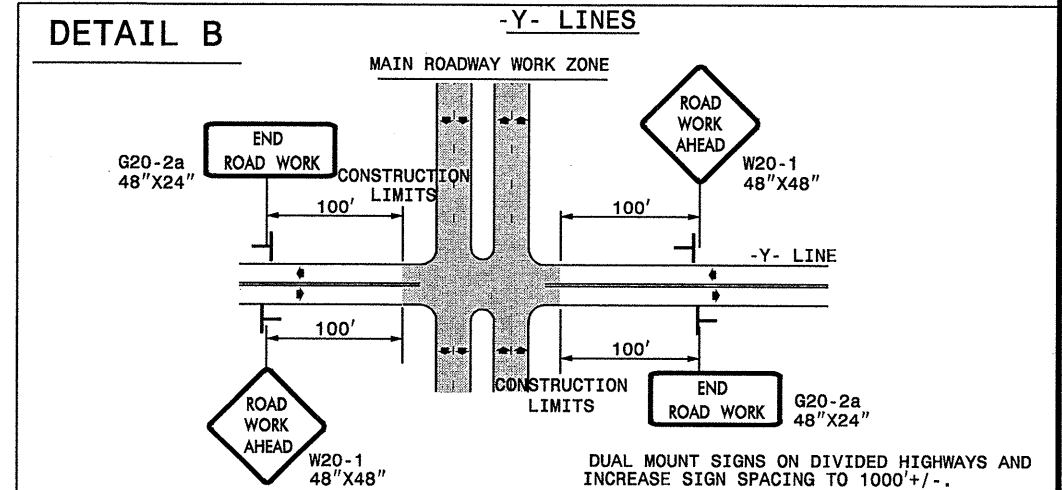
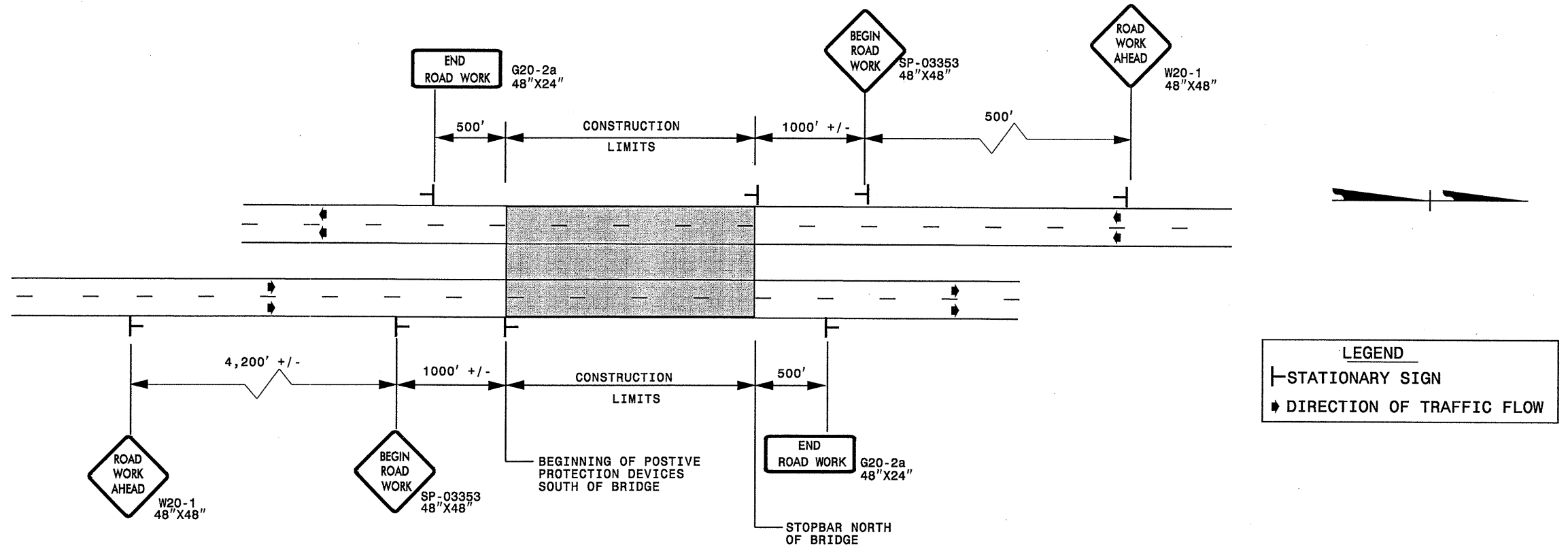
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# ADVANCED WORK ZONE WARNING SIGNING FOR FREEWAYS (4 LANES OR GREATER)

PROJ. REFERENCE NO.	SHEET NO.
R-2510D	TCP-9

## DETAIL A



### GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B), MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.
- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- DO NOT BACK BRACE SIGN SUPPORTS.

APPROVED: DATE: 2/28/07	<b>ADVANCED WORK ZONE WARNING SIGNS FOR FREEWAYS (4 LANES OR GREATER)</b>	<b>REVISIONS</b> 03/04
	SCALE: NONE DATE: 6/07 DWG. BY: KPB DESIGN BY: KPB REVIEWED BY: JWG	 CADD FILE

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 kbroodwell AT WZTC224240

### SP 03353

SIGN NUMBER: SP-03353 TYPE: A QUANTITY: 4 SIGN WIDTH: 4'-0" HEIGHT: 4'-0" TOTAL AREA: 16.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0.59" WIDTH: 0.75" RADII: 1.38" NO. Z BARS: N/A LENGTH: N/A	BACKG COLOR: Fluorescent Orange COPY COLOR: Black	DESIGN BY: CL DOWNEY PROJECT ID: ALL PROJECTS CHECKED BY: CHECKED DIV: DIV STD #: W20-1 DATE: Aug 20, 2003																																																																																																																																																																																																																																																																																																	
<table border="1"> <thead> <tr> <th>SYMBOL</th> <th>X</th> <th>Y</th> <th>WID</th> <th>HT</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	SYMBOL	X	Y	WID	HT																																																																																																																																																																																																																																																																																														
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<b>USE NOTES: 2, 4</b> 1. Legend and border shall be direct applied Type VII reflective sheeting. 2. Legend and border shall be direct applied non-reflective sheeting. 3. Shields shall be Type VII reflective sheeting on 0.032" (0.8mm) aluminum and demountable. 4. Background shall be Type VII reflective sheeting. 5. Background shall be Type I reflective sheeting. 6. Center arrow(s) vertically on sign. 7. Bottom panel shall be yellow Type III sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:			BORDER R=1.38" TH=0.75" IN=0.59"																																																																																																																																																																																																																																																																																																
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APPROVED: DATE: 2/12/07	SIGN DESIGN		
	SCALE: NONE DATE: 6/07 DWG. BY: KPB DESIGN BY: KPB REVIEWED BY: JWG		REVISIONS