

NOTES

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.

ALL REINFORCING STEEL SHALL BE GRADE 60.

APPLY EPOXY PROTECTIVE COATING TO END OF GIRDER SURFACES INDICATED IN ELEVATION VIEW.

EMBEDDED PLATE "B-1" SHALL BE GALVANIZED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. BEVEL EDGES OF PLATE "B-1" TO GIVE CLOSE FIT BUT NOT TIGHT FIT TO STEEL CASTING FORM.

ANCHOR STUDS SHALL CONFORM TO AASHTO M169 GRADES 1010 THROUGH 1020 OR APPROVED EQUAL, AND SHALL MEET THE TYPE "B" REQUIREMENTS OF SUBSECTION 7.3 OF THE ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE.

AT ENDS OF GIRDERS TO BE EMBEDDED IN CONCRETE DIAPHRAGMS OR END WALLS, PRESTRESSING STRANDS MAY EXTEND A MAXIMUM OF 2" BEYOND THE GIRDER ENDS. OTHERWISE, PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH THE GIRDER ENDS.

THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE GIRDER SHALL BE DONE WHEN CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN 8,000 PSI.

DEPENDING ON THE TYPE OF SYSTEM USED TO SUPPORT THE DECK SLAB FORMS, PRESET ANCHORS MAY BE NECESSARY IN THE PRESTRESSED CONCRETE GIRDER.

THE TOP SURFACE OF THE GIRDER, EXCLUDING THE OUTSIDE 4", SHALL BE RAKED TO A DEPTH OF 1/4".

WHEN DRAPED STRANDS ARE DETAILED, THE LONGITUDINAL LOCATION OF THE HOLD DOWN DEVICES SHALL BE WITHIN 6" OF THE LOCATION SHOWN AND THE CENTER OF GRAVITY OF THE GROUP OF DRAPED STRANDS SHALL BE LOCATED WITHIN 1/2" OF THE THEORETICAL LOCATION SHOWN.

PRESTRESSED CONCRETE GIRDERS ARE DESIGNED FOR 0 PSI TENSION IN THE PRECOMPRESSED TENSILE ZONE UNDER ALL LOADING CONDITIONS.

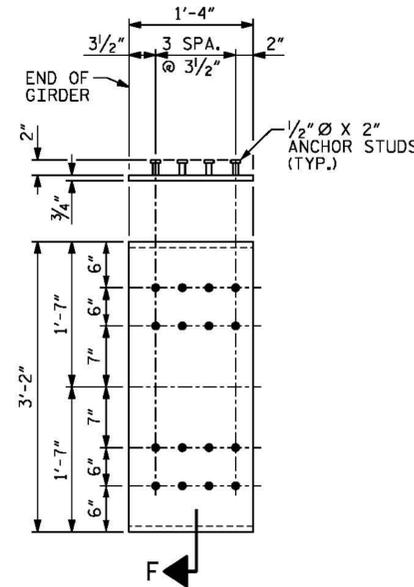
PRESTRESSED CONCRETE GIRDERS SHALL CONTAIN CALCIUM NITRITE CORROSION INHIBITOR. FOR CALCIUM NITRITE CORROSION INHIBITOR, SEE STANDARD SPECIFICATIONS.

THE COST OF ALL CONCRETE, REINFORCING STEEL, PRESTRESSED STRANDS, INSERTS EMBEDDED IN THE CONCRETE, EMBEDDED PLATES, TEMPORARY BRACING AND INCIDENTAL ITEMS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PRESTRESSED CONCRETE GIRDERS.

PRIOR TO CASTING THE GIRDERS, THE CONTRACTOR SHALL SUBMIT COMPLETE WORKING DRAWINGS WITH EXACT LOCATION, AND COMPLETE DESCRIPTION OF ALL INSERTS CAST IN THE GIRDERS, TO THE DEPARTMENT FOR APPROVAL. SUCH INSERTS INCLUDE BUT ARE NOT LIMITED TO, INSERTS FOR SUPPORTING FALSEWORK AND FORMWORK, INSERT FOR ATTACHING DIAPHRAGMS, INSERT FOR CONNECTING TEMPORARY BRACING, AND LIFTING INSERTS.

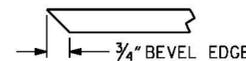
GIRDER LENGTH TABLE - F.I.B. 72"				
GIRDERS	A	B	C	D
D1-D5	140'-8"	140'-9 1/4"	2 1/2"	-
E1-E5	140'-8"	140'-9 1/4"	-	-
F1-F5	140'-8"	140'-9 1/4"	-	2 1/2"
G1-G5	93'-6"	93'-6 7/8"	2 1/2"	-
H1-H5	93'-6"	93'-6 7/8"	-	-
I1-I5	93'-6"	93'-6 7/8"	-	-
J1-J5	140'-8"	140'-9 1/4"	-	2 1/2"
K1-K5	140'-8"	140'-9 1/4"	2 1/2"	-
L1-L5	140'-8"	140'-9 1/4"	-	-
M1	139'-2 3/8"	139'-3 1/2"	-	2 1/2"
M2	139'-9 9/16"	139'-10 3/4"	-	2 1/2"
M3	140'-4 3/4"	140'-6"	-	2 1/2"
M4	141'-0"	141'-1 1/4"	-	2 1/2"
M5	141'-7 1/8"	141'-8 1/2"	-	2 1/2"
Z1	140'-8"	140'-9"	2 1/2"	2 1/2"
Z2	140'-8 3/8"	140'-9 3/8"	2 1/2"	2 1/2"
Z3	140'-9 3/8"	140'-10 1/2"	2 1/2"	2 1/2"
Z4	140'-11 1/8"	141'-0 3/8"	2 1/2"	2 1/2"
Z5	141'-1 3/4"	141'-2 7/8"	2 1/2"	2 1/2"
Z6	141'-4 7/8"	141'-6 1/8"	2 1/2"	2 1/2"

GIRDER LENGTH TABLE - F.I.B. 78"				
GIRDERS	A	B	C	D
N1	146'-2"	146'-3 1/8"	2 1/2"	-
N2	147'-4 3/4"	147'-5 3/4"	2 1/2"	-
N3	148'-7 3/8"	148'-8 3/8"	2 1/2"	-
N4	149'-10"	149'-11 1/8"	2 1/2"	-
N5	151'-0 5/8"	151'-1 3/4"	2 1/2"	-
O1	146'-2"	146'-2"	-	-
O2	147'-4 3/4"	147'-4 3/4"	-	-
O3	148'-7 3/8"	148'-7 3/8"	-	-
O4	149'-10"	149'-10"	-	-
O5	151'-0 5/8"	151'-0 5/8"	-	-
P1	146'-2"	146'-2"	-	1 1/2"
P2	147'-4 3/4"	147'-4 3/4"	-	1 1/2"
P3	148'-7 3/8"	148'-7 3/8"	-	1 1/2"
P4	149'-10"	149'-10"	-	1 1/2"
P5	151'-0 5/8"	151'-0 5/8"	-	1 1/2"
Q1, T1, W1	146'-2"	146'-3 1/4"	2 1/2"	-
Q2, T2, W2	147'-4 3/4"	147'-5 7/8"	2 1/2"	-
Q3, T3, W3	148'-7 3/8"	148'-8 1/2"	2 1/2"	-
Q4, T4, W4	149'-10"	149'-11 1/8"	2 1/2"	-
Q5, T5, W5	151'-0 5/8"	151'-1 3/4"	2 1/2"	-
R1 AND U1	146'-2"	146'-3 1/4"	-	-
R2 AND U2	147'-4 3/4"	147'-5 7/8"	-	-
R3 AND U3	148'-7 3/8"	148'-8 1/2"	-	-
R4 AND U4	149'-10"	149'-11 1/8"	-	-
R5 AND U5	151'-0 5/8"	151'-1 3/4"	-	-
S1 AND V1	146'-2"	146'-3 1/4"	-	2 1/2"
S2 AND V2	147'-4 3/4"	147'-5 7/8"	-	2 1/2"
S3 AND V3	148'-7 3/8"	148'-8 1/2"	-	2 1/2"
S4 AND V4	149'-10"	149'-11 1/8"	-	2 1/2"
S5 AND V5	151'-0 5/8"	151'-1 3/4"	-	2 1/2"
X1	147'-3"	147'-4"	-	-
X2	148'-0 3/8"	148'-1 3/8"	-	-
X3	148'-9 5/8"	148'-10 3/4"	-	-
X4	149'-7"	149'-8 1/4"	-	-
X5	150'-4 3/8"	150'-5 5/8"	-	-
Y1-Y5	140'-8"	140'-9 1/8"	-	2 1/2"



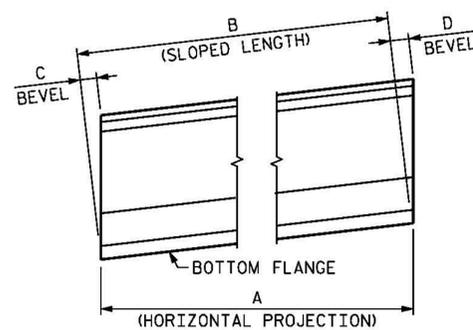
EMBEDDED PLATE "B-1" DETAILS

(2 REQ'D PER GIRDER)

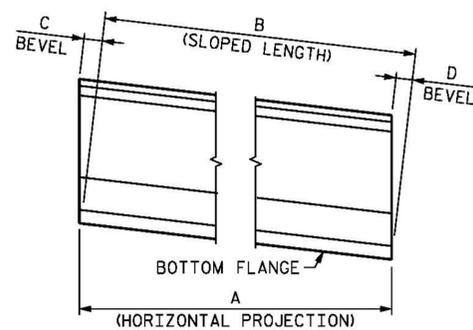


SECTION "F"

(SEE NOTES)



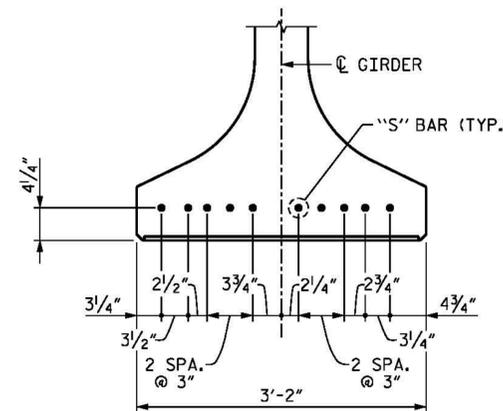
SPAN D-O



SPAN P-Z

GIRDER LENGTH DETAIL

(SEE GIRDER LENGTH TABLE)



DETAIL A-A

PROJECT NO. B-4929  
PENDER COUNTY  
 STATION: 38+13.81 -L2-



DocuSigned by:  
 Jason R. Doughty  
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STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 SUPERSTRUCTURE  
 PRESTRESSED CONCRETE GIRDER  
 CONTINUOUS FOR LIVE LOAD  
 DETAILS  
 F.I.B. GIRDERS

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-99
1			3			TOTAL SHEETS 278
2			4			

**PARSONS BRINCKERHOFF**  
 434 FAYETTEVILLE STREET  
 SUITE 1500  
 RALEIGH, NC 27601  
 LICENSE NO. F-0165

DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED

DESIGNED BY: JDB/BJL DATE: JAN 2016  
 DRAWN BY: M. HOBBS DATE: JAN 2016  
 CHECKED BY: BJL/JPS DATE: FEB 2016  
 DESIGN ENGINEER OF RECORD: J. DOUGHTY DATE: MAY 2016