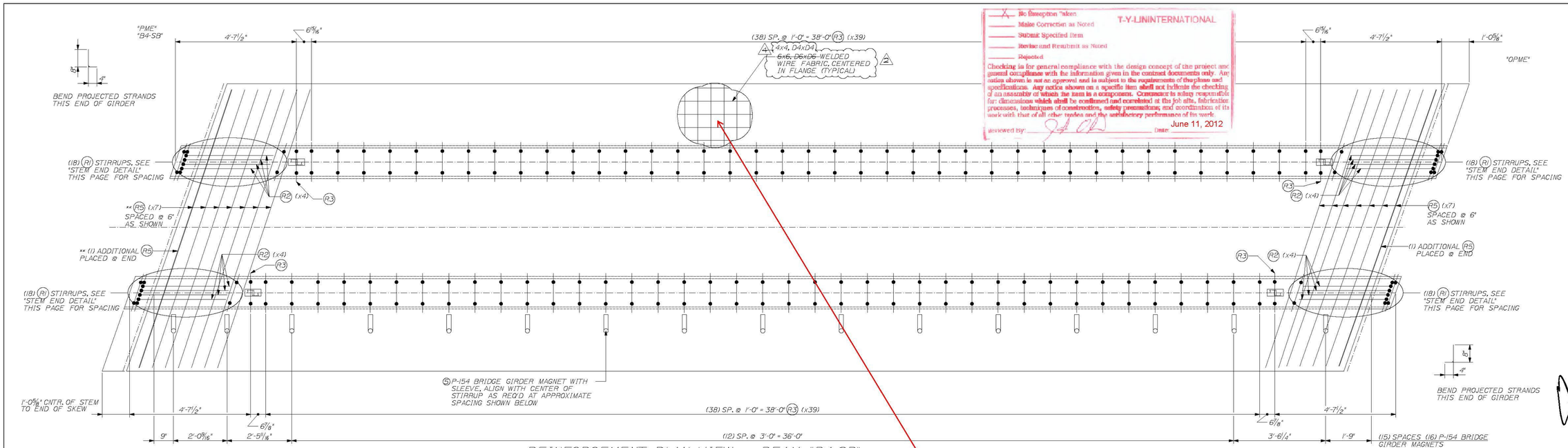


REINFORCEMENT PLAN VIEW ~ BEAM "B4-SB"

SCALE: ½" = 1'-0"

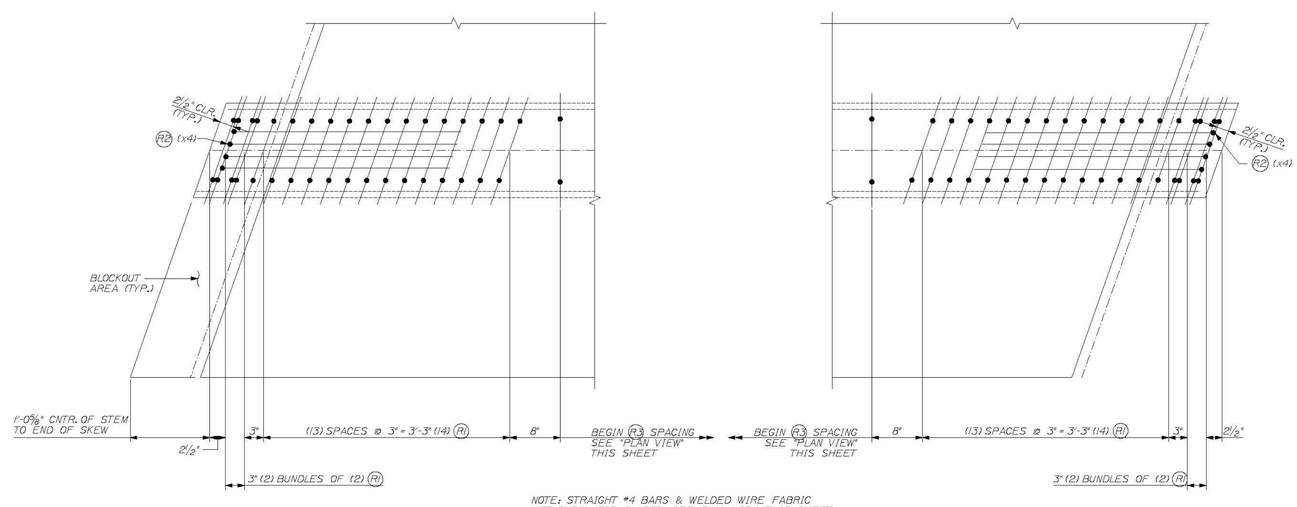
T-Y-LIN INTERNATIONAL

No Exception Taken
Make Correction as Noted
Submit Specified Item
Revise and Resubmit as Noted
Rejected

Checking is for general compliance with the design concept of the project and general compliance with the information given in the contract documents only. Any action shown is not an approval and is subject to the requirements of the plans and specifications. Any action shown on a specific item shall not indicate the checking of an assembly of which the item is a component. Contractor is solely responsible for dimensions which shall be confirmed and correlated at the job site, fabrication processes, techniques of construction, safety precautions, and coordination of its work with that of all other trades and the satisfactory performance of its work.

Reviewed by: Date June 11, 2012

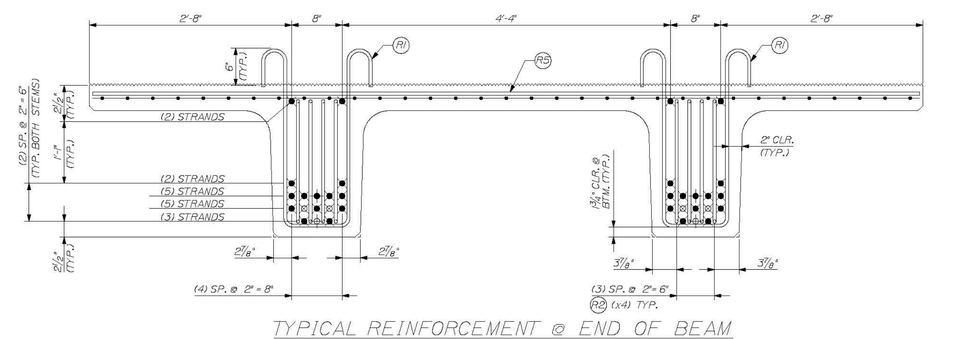
IF WWF NEEDS TO BE CUT TO PLACE OVER STIRRUPS USE PROCEDURE BELOW:
1. FOR CUT TRANSVERSE WIRE, SPLICE A #3 x 45" EPOXY COATED REBAR ORIENTED IN THE SAME DIRECTION OF THE CUT WIRE AND CENTERED.
2. FOR CUT LONGITUDINAL WIRE, SPLICE A #3 x 28" EPOXY COATED REBAR ORIENTED IN THE SAME DIRECTION OF THE CUT WIRE AND CENTERED.



NOTE: STRAIGHT #4 BARS & WELDED WIRE FABRIC NOT SHOWN FOR CLARITY. SEE PLAN VIEW THIS SHEET.

STEM END DETAIL

SCALE: 1" = 1'-0"



TYPICAL REINFORCEMENT @ END OF BEAM

SCALE: 1" = 1'-0"

STRAND LEGEND
0.6" FULLY TENSIONED STRAND
0.6" ϕ FULLY TENSIONED STRAND (DEBOUND 0.50 FEET)
0.6" ϕ FULLY TENSIONED STRAND (DEBOUND 6 FEET)
0.6" ϕ FULLY TENSIONED STRAND (DEBOUND 12 FEET)

*EXTEND STRANDS 1,4,5,9,29 & 33 IN THE "LEFT" STEM AND STRANDS 2,3,6,10,30 & 34 IN THE "RIGHT" STEM BY A LENGTH OF 12" BEYOND THE END OF THE BEAM. BEND PER DETAILS NOTED ABOVE

ALL OTHER STRANDS SHALL EXTEND 4" BEYOND THE END OF THE BEAM.

REINFORCING CHART

ITEM	QTY.	TOTAL	SIZE	TYPE	LENGTH
R1	72	72	4	BENT	6'-10"
R2	16	16	4	BENT	8'-3¾"
R3	82	82	4	BENT	6'-9½"
R5	16	16	4	STRT.	11'-3½"
---	515 sf.	515 sf.	4x4 D4xD4 WELDED WIRE FABRIC		

BAR SIZE	WT./BEAM	TOTAL WT.
4	908	908
WWF	440	440

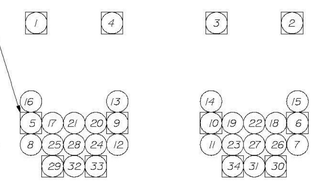
NOTES:
BENT BAR LENGTHS SHOWN REPRESENT BAR LENGTHS BEFORE BENDING.

TENSION LOAD = 43.94 KIPS/ STRAND
STRAND: .6" ϕ, 270 KSI LOW RELAXATION, ASTM M203
REBAR: AASHTO M31, GRADE 60, EPOXY COATED
ALL TOLERANCES TO PCI STANDARDS

(1) "B4-SB" NEXT BEAM BEAM REQUIRED

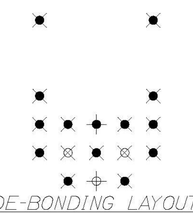
SEE SHEET #17 FOR GEOMETRIC DETAILS

SEE SHEET #2 FOR BENT REBAR DETAILS



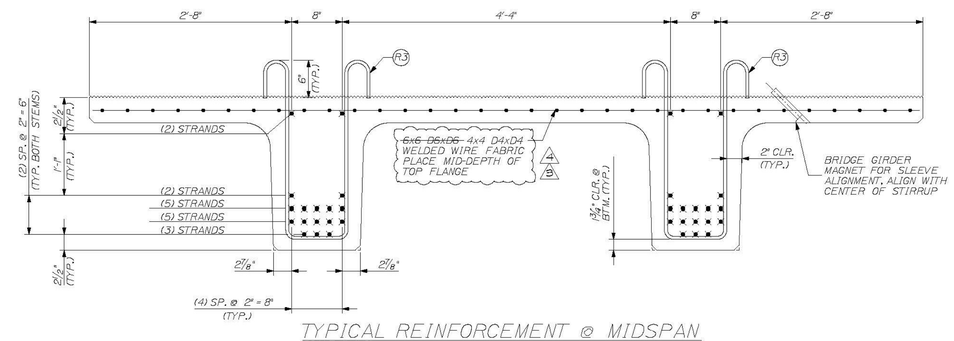
DE-TENSION SEQUENCE

N.T.S.



DE-BONDING LAYOUT

N.T.S.
TYPICAL EACH STEM



TYPICAL REINFORCEMENT @ MIDSPAN

SCALE: 1" = 1'-0"

THE PROFESSIONAL ENGINEER'S STAMP CERTIFIES ONLY THAT THESE DRAWINGS WERE PREPARED UNDER THE DIRECT SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER AND ONLY THE STRUCTURAL DETAILS SHOWN ON THE CONTRACT DRAWING UNLESS REQUESTED OTHERWISE.

CONTRACTOR: BECK & BELLUCCI, INC.

PROJECT: BRATTLEBORO, VERMONT
IM 019-1(50)

STATE OF VERMONT
ERIC T. CALDERWOOD
NO. 8743
Structural
LICENSED
PROFESSIONAL ENGINEER

W.E. DALEY INC.
AIRPORT ROAD, SHAFTSBURY, VT. 05262
PRECAST CONCRETE PRODUCTS
TEL: (802) 442-4416
FAX: (802) 442-4719
DATE: MAY 2011 REVISIONS: 0 INITIAL SUBMISSION
DRFTSLER: TFC

I-91 BRATTLEBORO, VERMONT
OVER MAPLE ST.

BEAM TYPE "B4-SB"
REINFORCEMENT DETAILS

SHEET NUMBER
18

Filename: ...\018_Beam_B4-SB_Reinf.dgn Workgroup: Structures Division Username: Eric Calderwood Date:6/11/2012