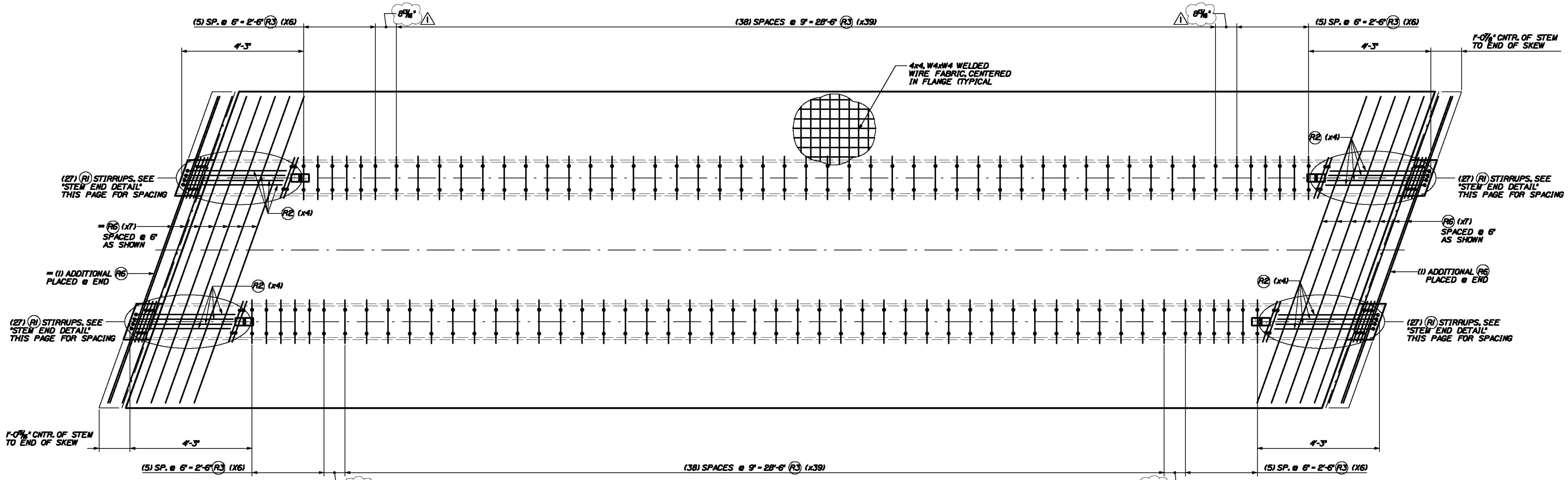
Filename: ...\024_Beam_C3-NB_Reinf... Workgroup: Structures Division Username: common Date:7/20/2011



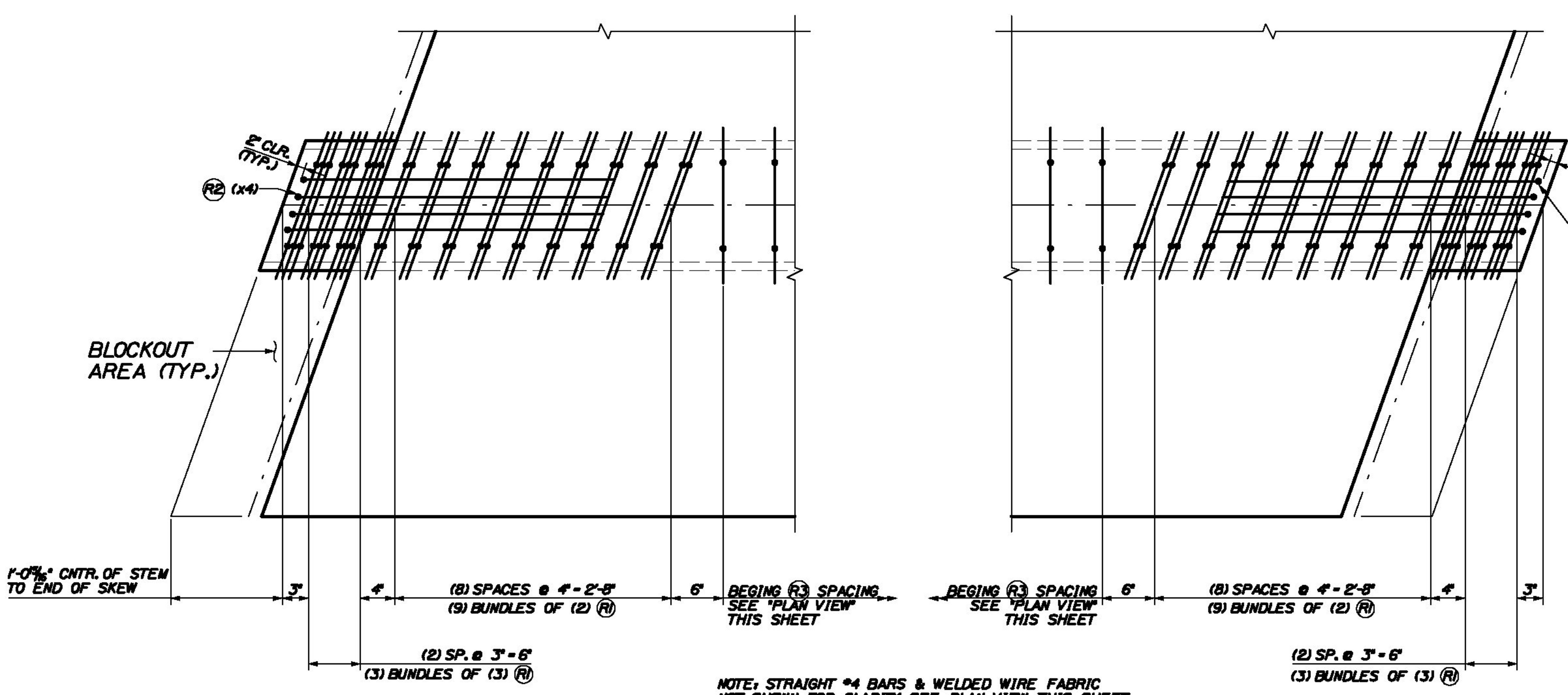
REINFORCEMENT PLAN VIEW ~ BEAM "C3-NB"

SCALE: ½" = 1'-0"

MAINTAIN 2" MIN. CLEARANCE FROM ENDS OF BEAM.

SEE REINFORCMENT SECTION & END VIEWS (THIS SHEET) FOR ALL DIMENSIONS AND DETAILS NOT SHOWN HERE.

= FLANGE REINFORCEMENT IN AREA OF FLANGE BLOCK-OUT TO BE PLACED DURING CONSTRUCTION (TYPICAL @ EACH END OF BEAM)

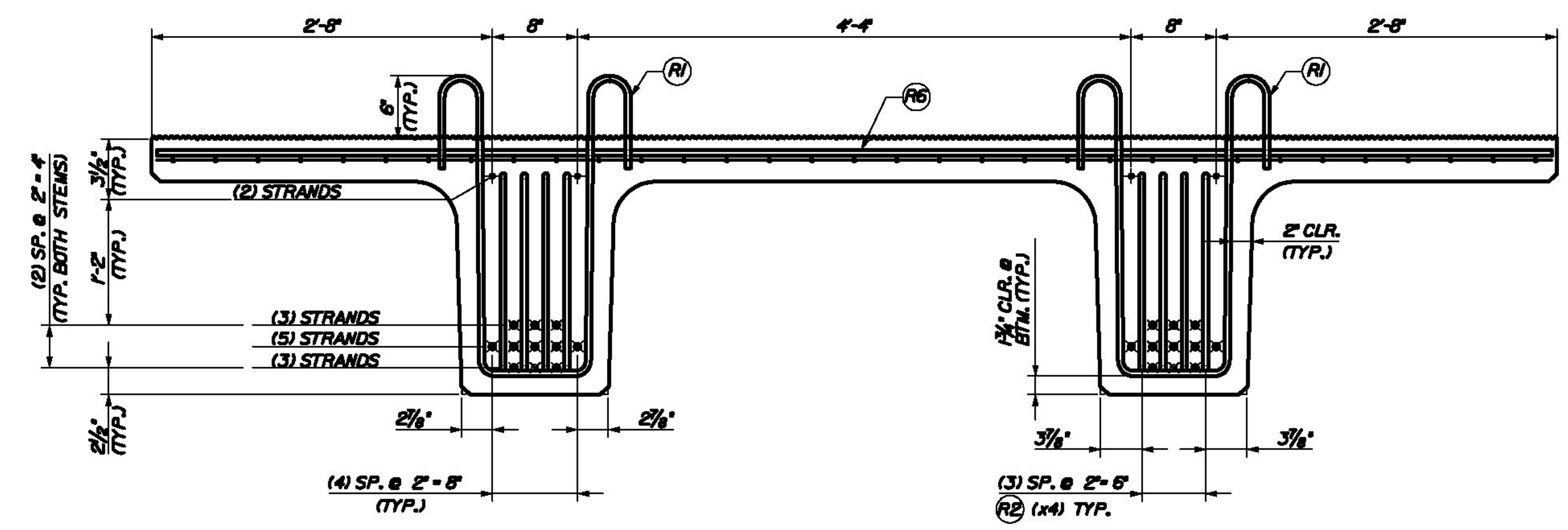


NOTE: STRAIGHT #4 BARS & WELDED WIRE FABRIC NOT SHOWN FOR CLARITY, SEE PLAN VIEW THIS SHEET.

STEM END DETAIL

SCALE: 1" = 1'-0"

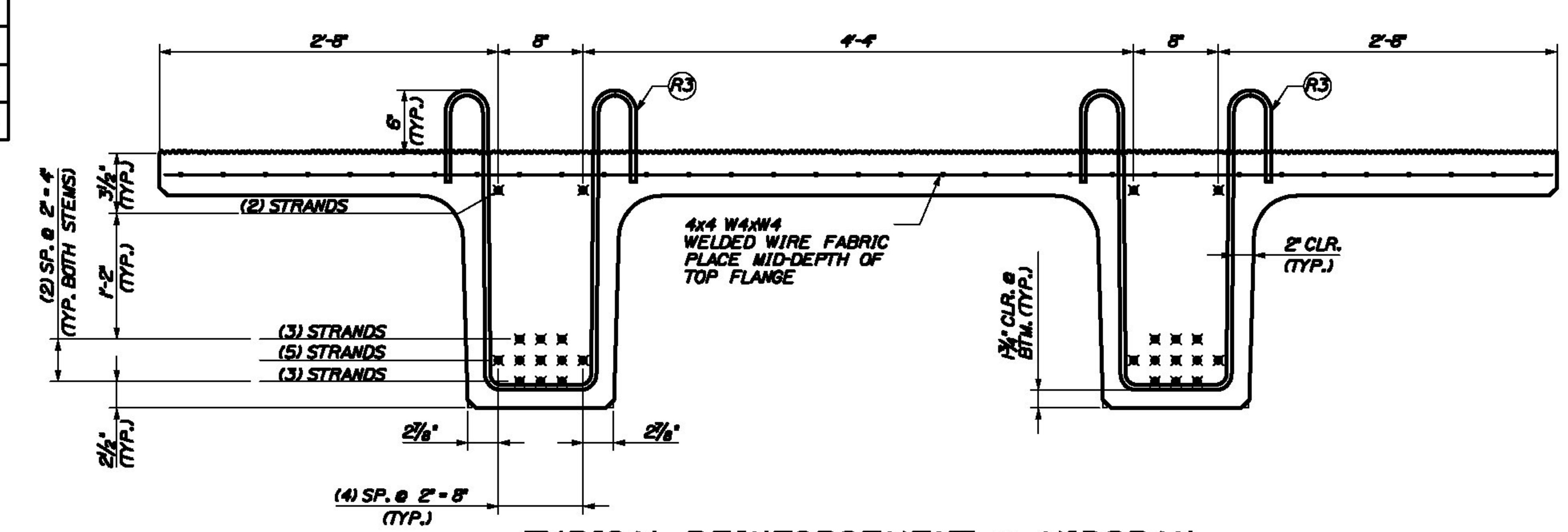
Add notes or diagrams that show required strand projections as shown in the design drawings on sheet 406, note 1



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 5.75 FEET)
⌖	0.6" ϕ FULLY TENSIONED STRAND (DEBOUND 8.75 FEET)



TYPICAL REINFORCEMENT @ MIDSPAN

SCALE: 1" = 1'-0"

REINFORCING CHART					
ITEM	QTY.	TOTAL	SIZE	TYPE	LENGTH
R1	108	108	4	BENT	6'-8"
R2	16	16	4	BENT	8'-5¼"
R3	102	102	4	BENT	6'-7½"
R6	16	16	4	STRT.	11'-4"
—	460 sf.	460 sf.	4x4 D4xD4 WELDED WIRE FABRIC		

BAR SIZE	WT./BEAM	TOTAL WT.
4	1210	1210
WWF	390	390

NOTES:

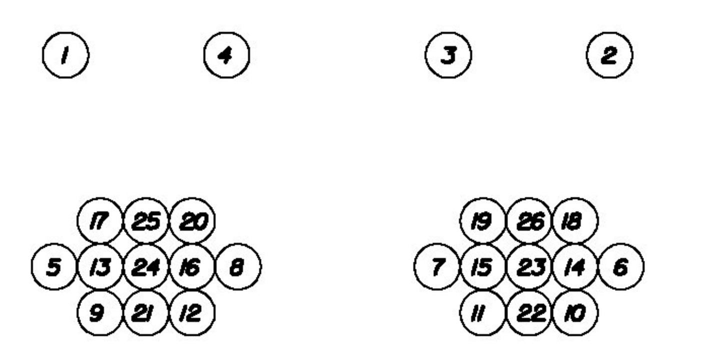
BENT BAR LENGTHS SHOWN REPRESENT BAR LENGTHS BEFORE BENDING.

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) "C3-NB" NEXT BEAM BEAM REQUIRED

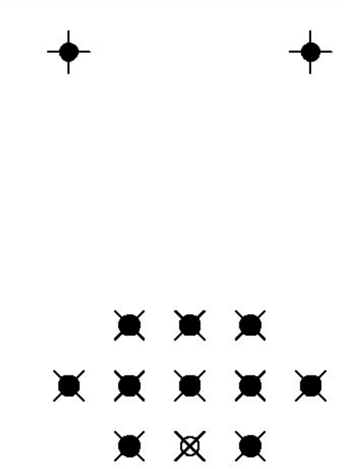
SEE SHEET #23 FOR GEOMETRIC DETAILS

SEE SHEET #2 FOR BENT REBAR DETAILS



DE-TENSION SEQUENCE

N.T.S.



DE-BONDING LAYOUT

N.T.S.
TYPICAL EACH STEM

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CONTRACTOR: BECK & BELLUCCI, INC.

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

STATE OF VERMONT — ERIC T. CALDERWOOD — NO. 87 — Structural — LICENSED PROFESSIONAL ENGINEER

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TEL: (802) 442-4418 FAX: (802) 442-4719
DATE: MARCH, 2011 | REVISION: 0 INITIAL SUBMISSION
DETAILER: ETC

I-91 BRATTLEBORO, VERMONT OVER MAPLE ST.

BEAM TYPE "C3-NB" REINFORCEMENT DETAILS

SHEET NUMBER

24