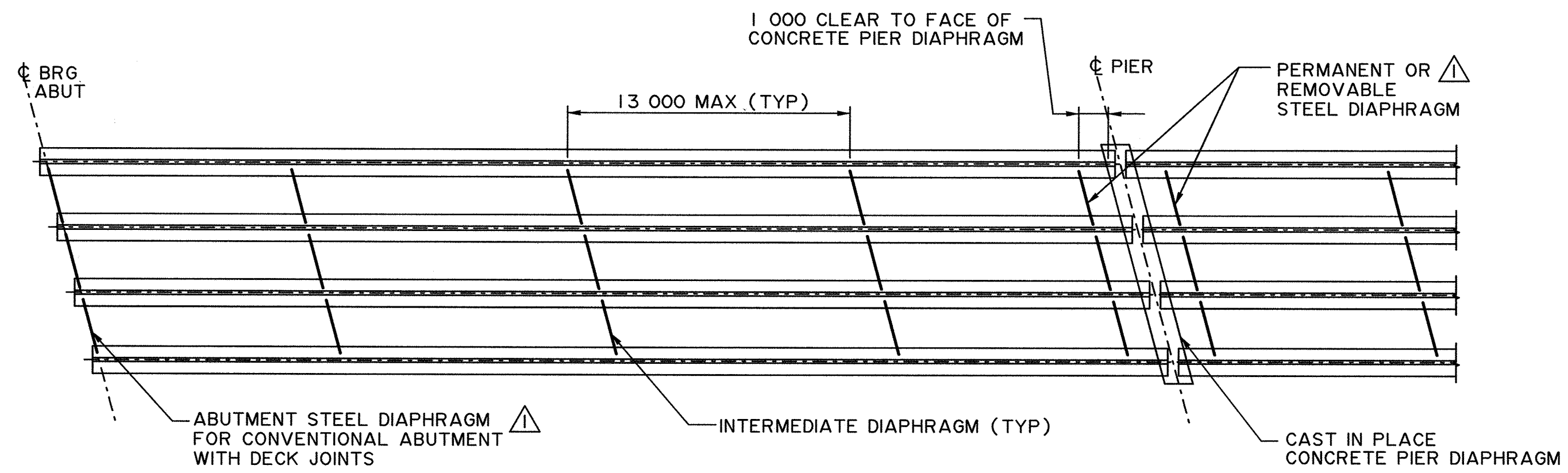


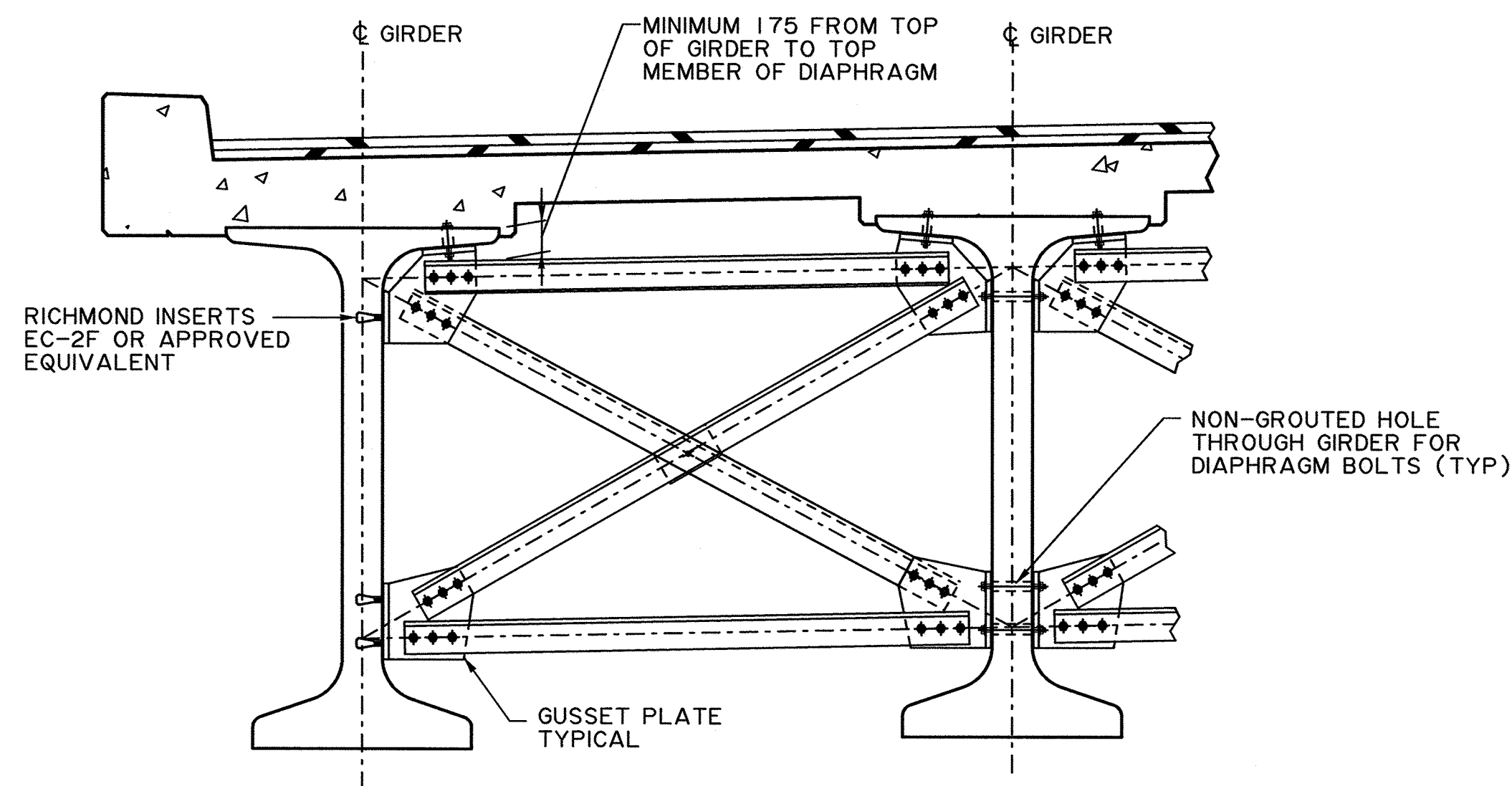
INTEGRAL ABUTMENT END \triangle



\triangle CONVENTIONAL ABUTMENT END

STEEL DIAPHRAGM LAYOUTS FOR SKEWS $\leq 30^\circ$
1:200

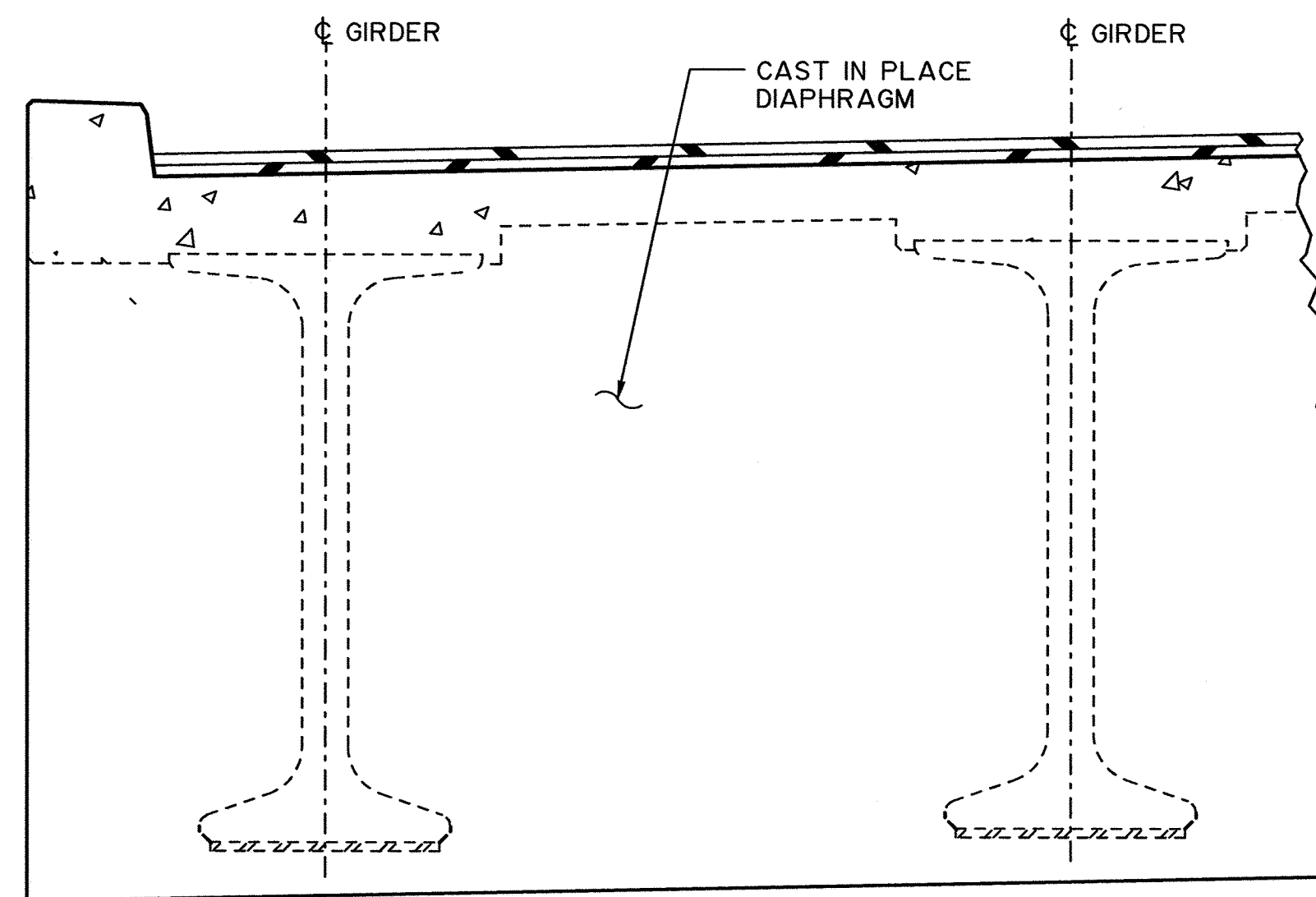
NOTE:
FOR SKEWS $> 30^\circ$
CONSULTANT TO DETERMINE
DIAPHRAGM ORIENTATION AND
LAYOUT



INTERMEDIATE DIAPHRAGM DETAILS

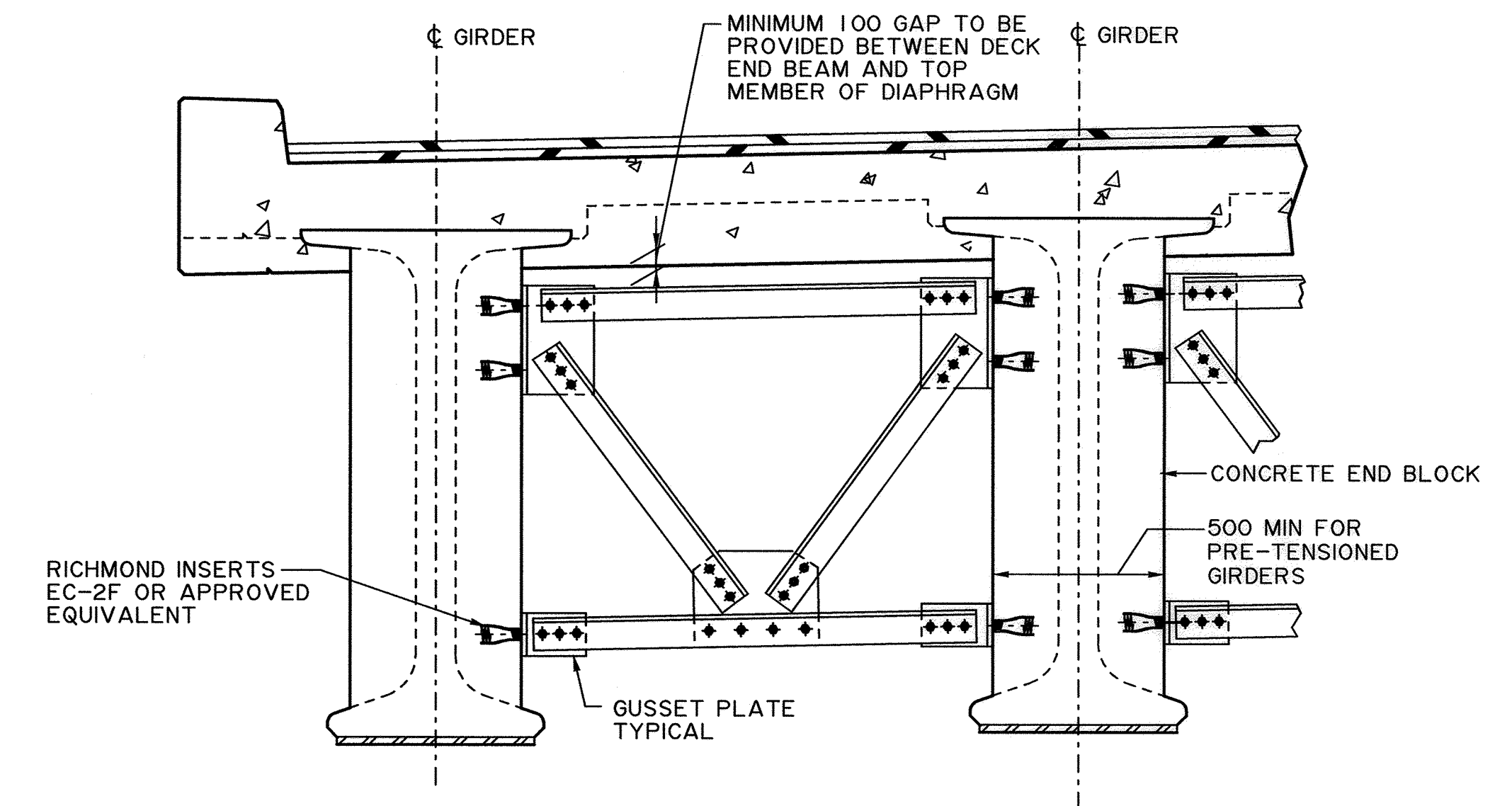
X-BRACING SHOWN
K-BRACING ALSO ACCEPTABLE

1:25



\triangle POST-TENSIONED & PRE-TENSIONED NU GIRDERS
AT CONCRETE PIER DIAPHRAGM OR PRE-TENSIONED
NU GIRDER WITH INTEGRAL ABUTMENT

1:25



\triangle POST-TENSIONED & PRE-TENSIONED NU GIRDER
ABUTMENT DIAPHRAGM DETAILS

1:25

THEORETICAL GIRDER CAMBER AT MID-SPAN				
		ASSUMED TIME (DAYS)	DEFLECTION (mm)	NET CAMBER (mm)
(1)	GIRDER CAMBER AT RELEASE OF PRETENSIONED STRANDS		↑	
(2)	GIRDER CAMBER AT GIRDER ERECTION PRIOR TO POST TENSIONING STAGE 1		↓ OR ↑	
(3)	GIRDER CAMBER AFTER POST TENSIONING STAGE 1, IMMEDIATELY BEFORE CASTING DECK		↑	
(4)	GIRDER CAMBER IMMEDIATELY AFTER CASTING DECK		↓	
(5)	GIRDER CAMBER IMMEDIATELY AFTER POST TENSIONING STAGE 2		↑	
(6)	GIRDER CAMBER IMMEDIATELY AFTER SUPERIMPOSED DL		↓	
(7)	FINAL GIRDER CAMBER		↓ OR ↑	

NOTES:

- ACTUAL GIRDER CAMBER MAY BE EXPECTED TO VARY FROM THEORETICAL GIRDER CAMBER. THE CONTRACTOR SHALL MONITOR THE GIRDER CAMBER DURING CONSTRUCTION AND ADJUST DECK FORMWORK ACCORDINGLY TO OBTAIN THE REQUIRED GRADELINE.
- VALUES IN THE 'DEFLECTION' COLUMN REPRESENT GIRDER CAMBER CHANGE IN EACH STAGE. VALUES IN THE 'NET CAMBER' COLUMN REPRESENT TOTAL CAMBER AFTER EACH STAGE.
- ESTIMATED PRE-ERECTION GIRDER CAMBER BASED ON DUNNAGE LOCATED $__$ m FROM THE ENDS OF THE GIRDERS. (CONSULTANT TO CONFIRM DUNNAGE LOCATIONS WITH PRECAST SUPPLIERS DURING DESIGN.)

DETAILS SHOWN ARE CONCEPTUAL AND REPRESENT DEPARTMENT PRACTICES AS REFERENCED IN THE BRIDGE STRUCTURES DESIGN CRITERIA. FULL RESPONSIBILITY FOR DESIGN OF DETAILS REMAINS WITH THE CONSULTANT.

NOT FOR CONSTRUCTION

\triangle				RECOMMENDED DIRECTOR BRIDGE ENGINEERING
\triangle				
\triangle				APPROVED EXECUTIVE DIRECTOR TECHNICAL STANDARDS BRANCH
\triangle	2012-01-18	ABUTMENT DIAPHRAGM DETAILS	CM	
REV	DATE	REVISIONS	BY	DATE

Alberta Transportation

NU GIRDER BRIDGES
TYPICAL DETAILS SHEET 1

DATE 2009-01-23 SHEET 1 of 5 DRAWING S-1757-08