

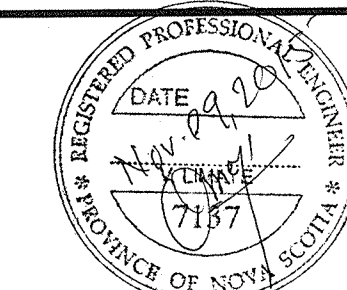
#### NOTES:

- ALL FORCES ARE FACTORED AND IN KILONEWTONS  
COMPRESSION FORCE (-) NEGATIVE  
TENSION FORCE (+) POSITIVE
- NORMAL OPERATION: THUS "N" CONSISTS OF  
(MASS OF BOOM)  $\times$  1.1 + (MASS OF LOG "A")  $\times$  1.4  
BEING LIFTED IN AIR
- EMERGENCY OPERATION THUS "E" CONSISTS OF  
(MASS OF BOOM)  $\times$  1.1 + (MASS OF LOG "A")  $\times$  1.4  
+ (FORCE OF CURRENT APPLIED TO THE EXPOSED  
AREA OF ALL MEMBERS OF BOOM EXCEPT THOSE  
SHELTERED WITHIN THE GAINS)  $\times$  1.4. FURTHER  
IT IS ASSUMED THAT THE LOG WILL TRANSMIT ITS OWN  
CURRENT FORCES TO THE GAINS AND NOT TO THE BOOM.  
MASS OF BOOM = 78.8 kN = 8,035 Kg  
MASS OF LOG "A" = 278.4 kN = 28,380 Kg  
CURRENT FORCE = 18.625 kN/m<sup>2</sup> = 389.5 PF.
- REFER TO DRWG. NO E-5-009 AND -010 IN RESPECT TO  
THE LOCATION FOR PICK-UP HOOKS AND SLINGS  
AND BALANCING OF THE BOOM IN THE SHOP.

SCALE: 1:400

#### NOTE

NO WORK INDICATED ON THIS SHEET.  
ISSUED FOR REFERENCE ONLY.



0	ISSUED FOR TENDER	11/06/2015
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