

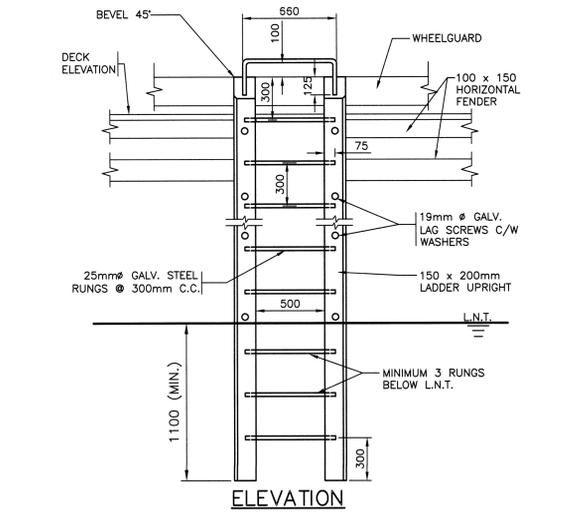
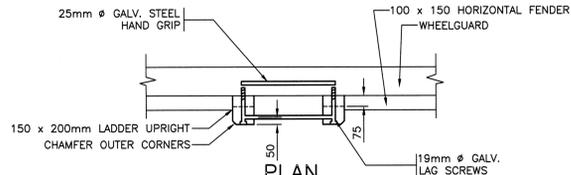
SMALL CRAFT HARBOURS



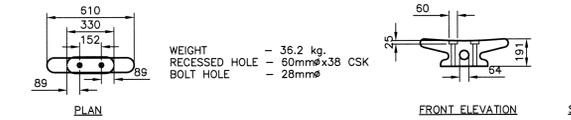
PROVINCE OF NEWFOUNDLAND AND LABRADOR
PERMIT HOLDER
 This Permit Allows
Meridian Engineering Inc.
 to practice Professional Engineering
 in Newfoundland and Labrador.
 Permit No. as issued by PEG 30453
 which is valid for the year 2014.



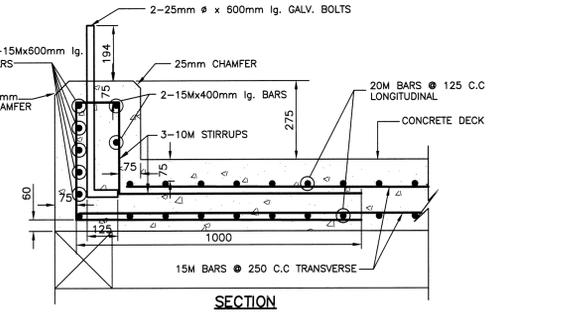
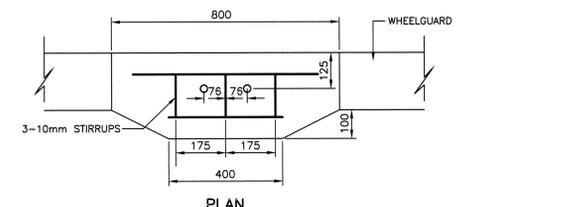
- GENERAL NOTES:**
- ALL DIMENSIONS ARE IN MILLIMETERS.
 - ALL ELEVATIONS IN METERS.
 - DO NOT SCALE FROM DRAWING, USE DIMENSIONS AS SHOWN.
 - MINIMUM CONCRETE STRENGTH 35 MPa @ 28 DAYS.
 - REINFORCING STEEL YIELD STRENGTH 400 MPa.
 - REINFORCING STEEL SPLICES SHALL CONFORM TO A23.3, LATEST EDITION AND AS INDICATED BELOW:
 A.) STRUCTURAL DECK
 - 20M = 700mm LAP
 - 15M = 500mm LAP
 B.) ALL OTHER AREAS
 - 20M = 850mm LAP
 - 15M = 650mm LAP
 - ALL REBAR TO HAVE MIN. COVER OF 75mm UNLESS OTHERWISE NOTED
 - ALL MACHINE BOLTS TO BE 19mm DIAMETER (GALVANIZED), UNLESS OTHERWISE NOTED.
 - ALL DRIFT BOLTS TO BE 19mm DIAMETER (GALVANIZED), AS NOTED ON DRAWINGS.
 - ALL TIMBER TO BE TREATED TO CSA 080, LATEST EDITION, UNLESS OTHERWISE NOTED.
 - GALVANIZING WILL CONFORM TO ASTM A123/A123M-09, LATEST EDITION.
 - ALL LAG SCREWS TO BE GALVANIZED AND SIZED AS PER FOLLOWING:
 LADDER UPRIGHTS - 19mm FENDERING - 16mm.
 - SECURE HORIZONTAL FENDER TO CONCRETE DECK WITH NEW 16mm Ø GALVANIZED HIT-RE 500 EPOXY ADHESIVE ANCHORING SYSTEM WITH SUPER HAS RODS BY HILTI OR APPROVED EQUAL, WITH BOLT HEADS COUNTERSUNK IN FENDER AND MINIMUM CONCRETE EMBEDMENT OF 143mm. ADHESIVE ANCHOR TO BE INSTALLED AT 1500mm ON CENTRE WITH NO LESS THAN FOUR (4) ANCHORS PER FENDER PIECE.



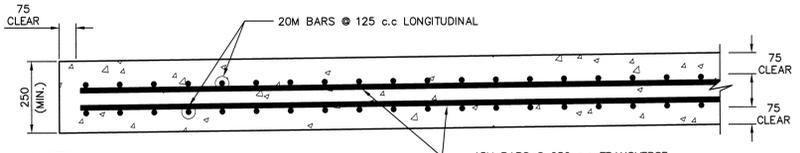
LADDER DETAIL
 SCALE 1:20
 0mm 500mm 1000mm 1500mm 2000mm 2500mm



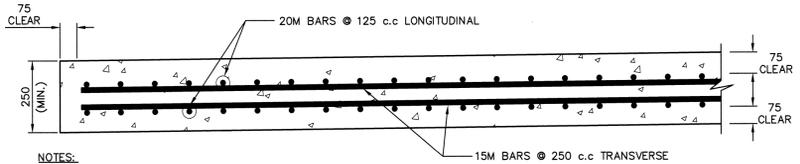
TYPE "B1" CLEAT
 SCALE 1:20
 0mm 500mm 1000mm 1500mm 2000mm 2500mm



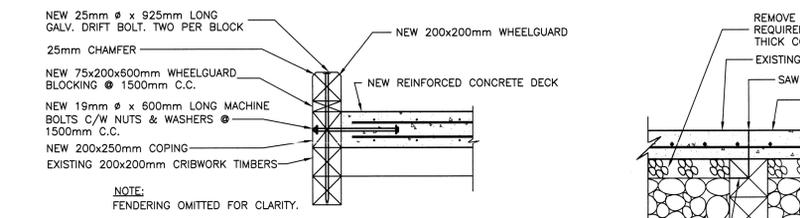
TYPE "B1" CLEAT BLOCK IN CRIBWORK
 SCALE 1:10
 0mm 100 200 300 400 500 600 700 800 900 1000mm



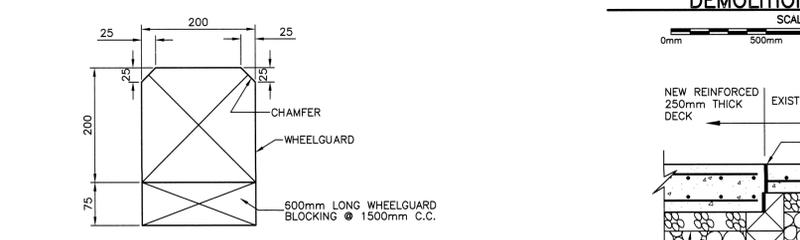
REINFORCED CONCRETE DECK OVER CRIBWORK
 SCALE 1:10
 0mm 100 200 300 400 500 600 700 800 900 1000mm



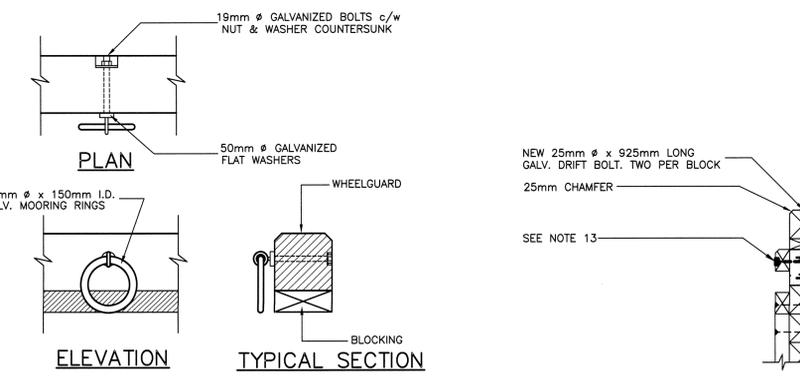
SLAB ON GRADE OVER NEW GRANULARS
 SCALE 1:10
 0mm 100 200 300 400 500 600 700 800 900 1000mm



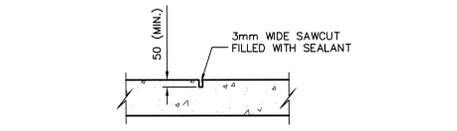
WHEELGUARD AND COPING DETAIL
 SCALE 1:20
 0mm 500mm 1000mm 1500mm 2000mm 2500mm



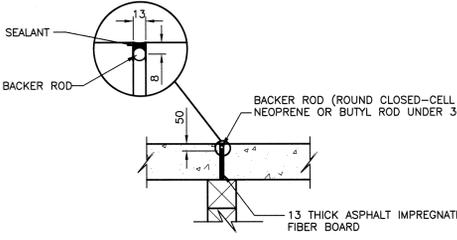
WHEELGUARD SECTION
 SCALE 1:5
 0mm 100mm 200mm 300mm 400mm 500mm



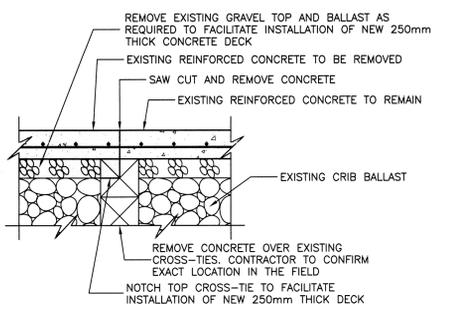
MOORING RINGS
 SCALE 1:10
 0mm 100 200 300 400 500 600 700 800 900 1000mm



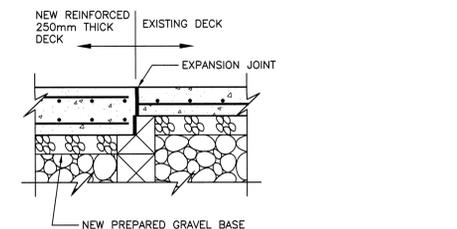
TYPICAL CONTROL JOINT DETAIL
 SCALE 1:20
 0mm 500mm 1000mm 1500mm 2000mm 2500mm



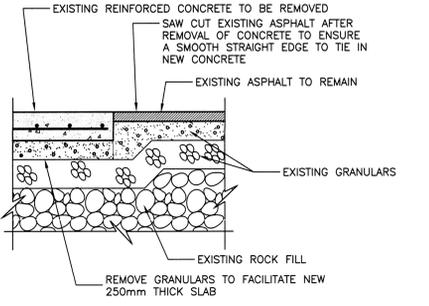
TYPICAL EXPANSION JOINT DETAIL
 SCALE 1:20
 0mm 500mm 1000mm 1500mm 2000mm 2500mm



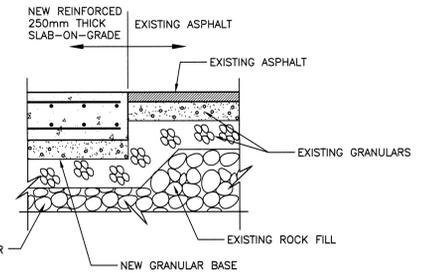
DEMOLITION SECTION
 SCALE 1:15
 0mm 500mm 1000mm 1500mm



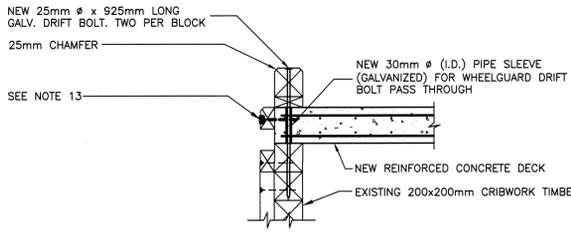
CONCRETE TIE-IN DETAIL STRUCTURAL DECK
 SCALE 1:15
 0mm 500mm 1000mm 1500mm



DEMOLITION SECTION
 SCALE 1:25
 0mm 500mm 1000mm 1500mm 2000mm 2500mm



CONCRETE TIE-IN DETAIL
 SCALE 1:25
 0mm 500mm 1000mm 1500mm 2000mm 2500mm



CONCRETE DECK/COPING DETAIL
 SCALE 1:20
 0mm 500mm 1000mm 1500mm 2000mm 2500mm

3	ISSUED FOR TENDER	15/12/17
2	ISSUED FOR 99% REVIEW	15/12/04
1	ISSUED FOR 66% REVIEW	15/11/20
0	ISSUED FOR 33% REVIEW	15/10/09

MARGINAL WHARF REFURBISHMENT HAPPY ADVENTURE, NL

designed	C. FISHER	concu
date	APRIL, 2015	
drawn	R. SNOW	dessine
date	APRIL, 2015	
approved		approuve
date		
Tender	<i>Paul Snow</i>	Soumission
DFO Project Manager	Administrateur de projets MPO	
project number		no. du projet
	712617	
drawing no.		no. du dessin
	C5 OF 6	