

NOTES:

1. SCANTLINGS CALCULATED IN ACCORDANCE WITH CLASS REQUIREMENTS.
2. FOR ALL STRUCTURE, USE CLASS APPROVED MILD STEEL WITH A MINIMUM YIELD STRENGTH OF 235 N/mm² OR BETTER UNLESS NOTED OTHERWISE.
3. THE FAIRING PLATES ON THE HULL MUST BE EH36 STEEL. Rx FAIRING TO BE GRADE EH AND Tx AS GRADE EH36 STEEL.
4. SHIPYARD TO PROVIDE A WELDING PROCEDURE, MATERIALS, AND WORKMANSHIP IN ACCORDANCE WITH CLASS REQUIREMENTS AND APPROVED WELDING SCHEDULE.
5. REFER TO THE CCGS HENRY LARSEN DRAWING. PARTICULAR ATTENTION SHOULD BE PAID TO THE FOLLOWING:
 - 12-0010-01 FLOORS FR.61-125
 - 12-0011-01 FLOORS FR.125-175
 - 12-0008-01 INNER BOTTOM STRUCTURE
 - 12-0016-02 SHELL EXPANSION
6. REFER TO MANUFACTURER'S SPECIFICATIONS FOR Rx AND Tx TRANSDUCER MOUNTING FRAMES.
 - KONGSBERG MARITIME AS DWG. NO. 430238 CASING ASSY. PROTECTED RX 2 DEGREE EM302 REV. A
 - KONGSBERG MARITIME AS DEG. NO. 392135 CASING ICE WINDOW 1DEG TX MOUNTING FRAME REV. B
7. USE ONLY FINAL LOFTED HULL SHAPE FOR PRODUCTION DESIGN. DO NOT RELY ON MEASUREMENTS FROM THIS DRAWING.
8. ALL CUT-OUTS ARE REFERENCE ONLY. SHIPYARD TO BASE FROM ACTUAL PIPE CONDUIT POSITIONING.
9. THE EXTENT OF SHELL OPENINGS/ PENETRATIONS IS TO BE MINIMIZED AND WATERTIGHT INTEGRITY OF THESE OPENINGS/ PENETRATIONS IS TO BE MAINTAINED TO THE ATTENDING SURVEYOR'S SATISFACTION.
10. TAPER THICKER PLATES AT 4:1 RATIO TO JOIN THINNER PLATES.

RESERVATION:

1. SUGGESTED SCHEME OF INSTALLATION OF CONDUIT PIPES TO BE CONFIRMED WITH SHIPYARD

LEGEND:

— — — — —	BULKHEAD
— — — — —	DOUBLE BOTTOM FLOOR, BRACKET
— — — — —	GIRDER, WEB FRAME, TRANSVERSE
—	STIFFENER, ORDINARY FRAME, BEAM
— ➔	GIRDER/STIFFENER WITH BRACKET END
— ➔	GIRDER/STIFFENER WITH WELDED END
— ⚡	STIFFENER WITH SNIPED END

ABBREVIATIONS:

ABL	- ABOVE BASELINE	L	- ANGLE
B., BKT	- BRACKET	PL	- PLATE
BF	- BULB FLAT	P, PORT	- PORT SIDE
BL	- BASELINE	S.	- SNIPED
BHD	- BULKHEAD	S, STBD	- STARBOARD
CL	- CENTRELIN	STIFF.	- STIFFENER
FB	- FLAT BAR	TB	- TRIPPING BRACKET
FF	- FACE FLAT	TYP	- TYPICAL
FLG	- FLANGE	UNO	- UNLESS NOTED OTHERWISE
FWD	- FORWARD	W.	- WELDED
GDR	- GIRDER	WT	- WATERTIGHT
HOR	- HORIZONTAL		
IWO	- IN WAY OF		



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rev	description	by par	date

Asset - Actif	
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CCGS HENRY LARSEN

INSTALLATION OF A MULTI-BEAM SOUNDER

Drawing - Dessin

TRANSDUCER STRUCTURE MODIFICATION

designed - conception

RDB 2017-12-13 0492

drawn - dessiné

RDB 2017-12-13

checked - vérifié

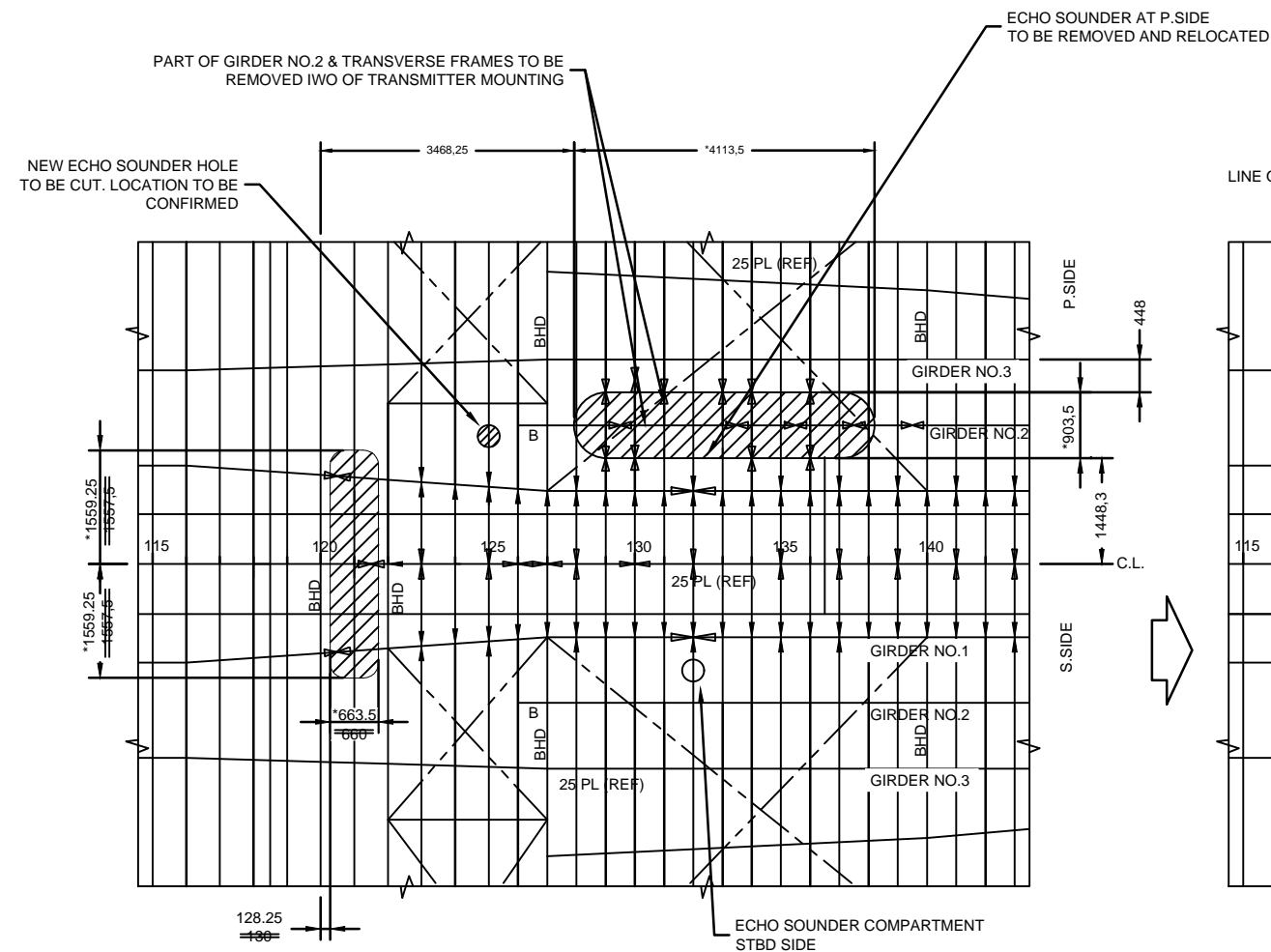
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approved - approuvé

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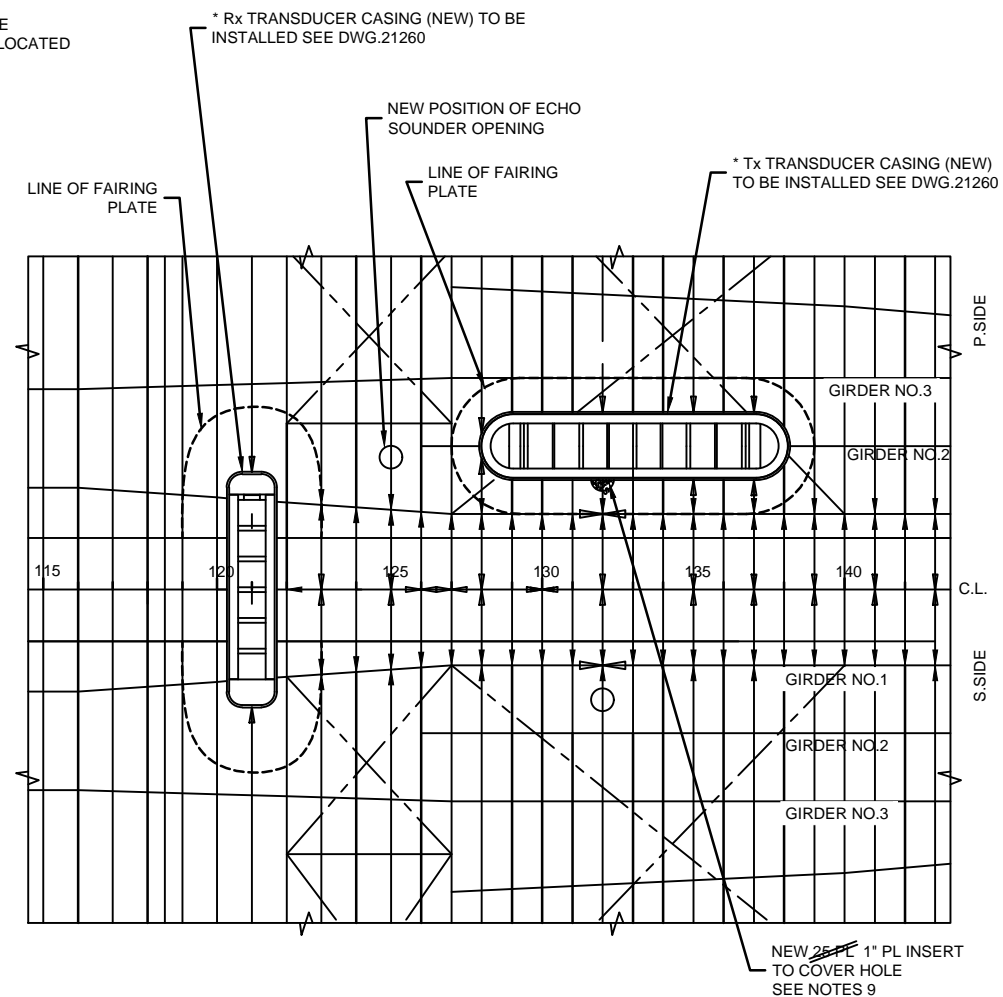


SHELL EXPANSION
LOOKING FROM ABOVE

EXISTING	PROPOSED
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--PARTS TO BE REMOVED



SHELL EXPANSION
LOOKING FROM ABOVE

MODIFIED



--NEW PARTS TO BE INSTALLED

*NOTE: EQUIPMENT DIMENSION AND DETAILS TO BE CONFIRMED BY SHIPYARD
BASED ON SUPPLIER DRAWING

D	REVISED CUT-OUT IWO Tx CASING	RDB	2018-04-10
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rev	description	by par	date

Asset - Actif	
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CCGS HENRY LARSEN

INSTALLATION OF A MULTI-BEAM SOUNDER

Drawing - Dessin

TRANSDUCER STRUCTURE MODIFICATION

designed - conception

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assigned conception	date
RDB	2017-12-13

drawn - dessiné

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checked - vérifié

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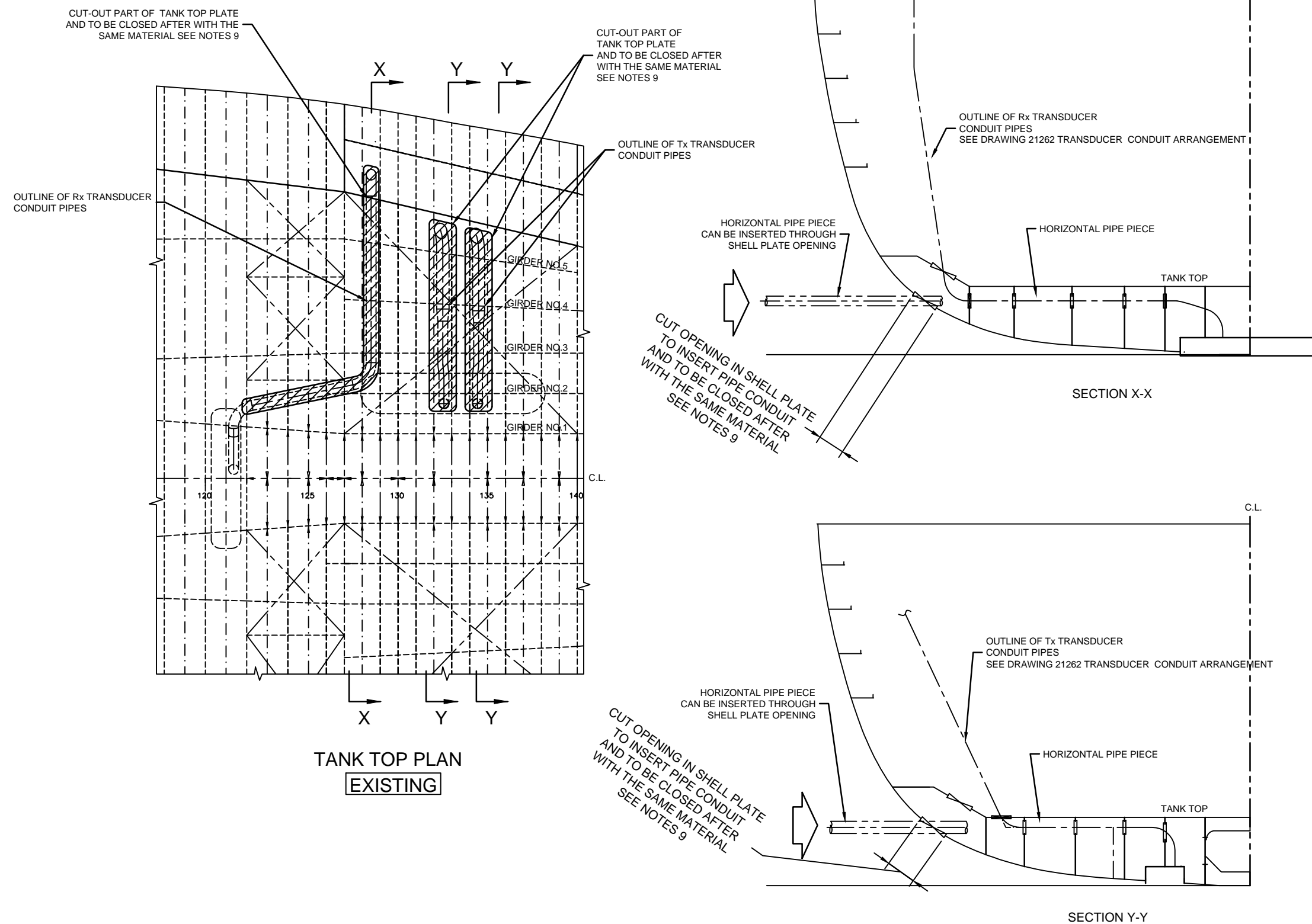
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INSTALLATION OF A MULTI-BEAM SOUNDER

Drawing - Dessin

TRANSDUCER STRUCTURE MODIFICATION

designed - conception

RDB	2017-12-13
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drawn - dessiné

RDB 2017-12-13

checked - vérifié

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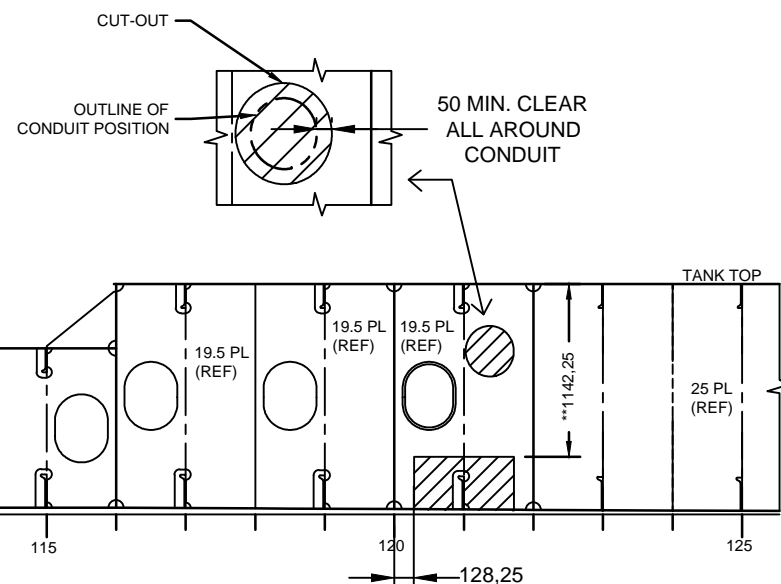
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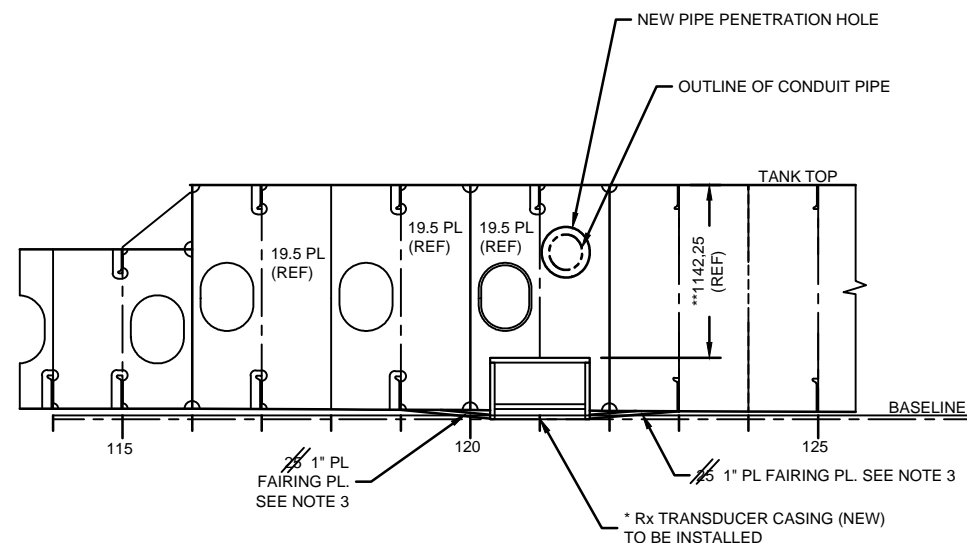
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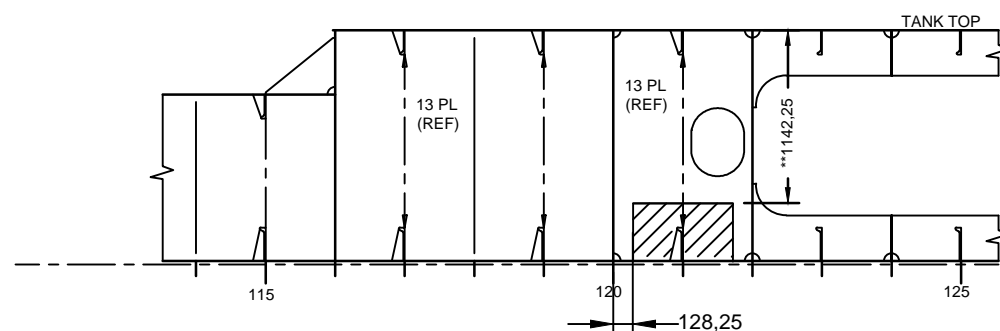
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GIRDER No.1 (P&S)



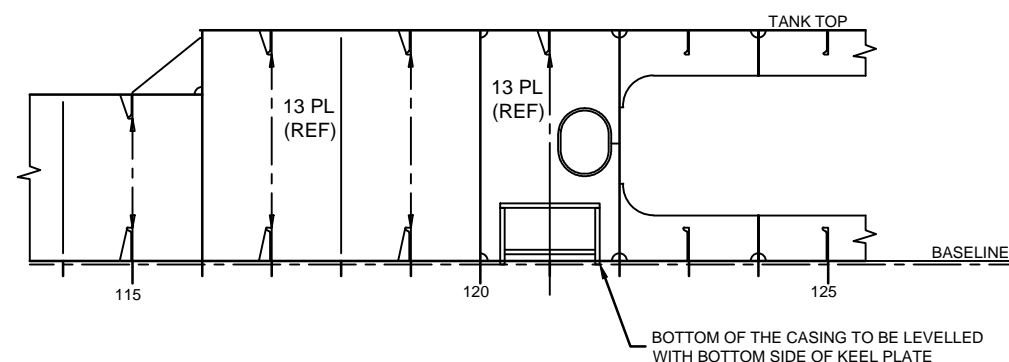
MODIFIED

-- NEW PARTS TO BE INSTALLED




EXISTING

CENTER GIRDER



MODIFIED

BOTTOM OF THE CASING TO BE LEVELLED
WITH BOTTOM SIDE OF KEEL PLATE

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CCGS HENRY LARSEN

INSTALLATION OF A MULTI-BEAM SOUNDER

Drawing - Dessin

TRANSDUCER STRUCTURE MODIFICATION

designed - conception

date

RDB 2017-12-13

drawn - dessiné	date
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RDB 2017-12-13

checked - vérifié	date
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approved - approuvé	date
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DOI: 10.1002/for

CCG ref. no. - no. réf. GCC	scale - échelle
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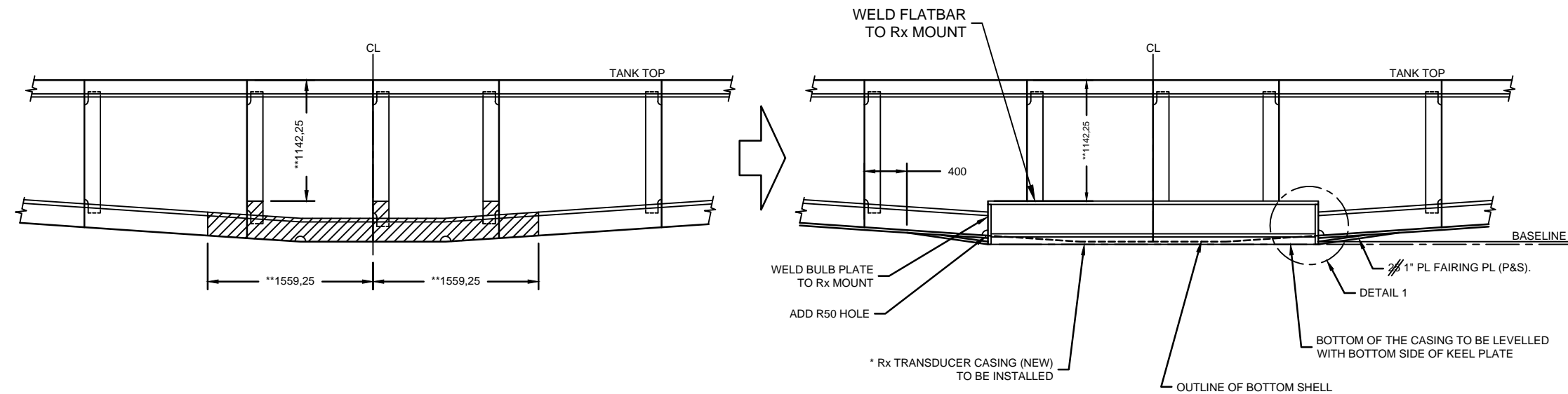


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EXISTING



PARTS TO BE REMOVED

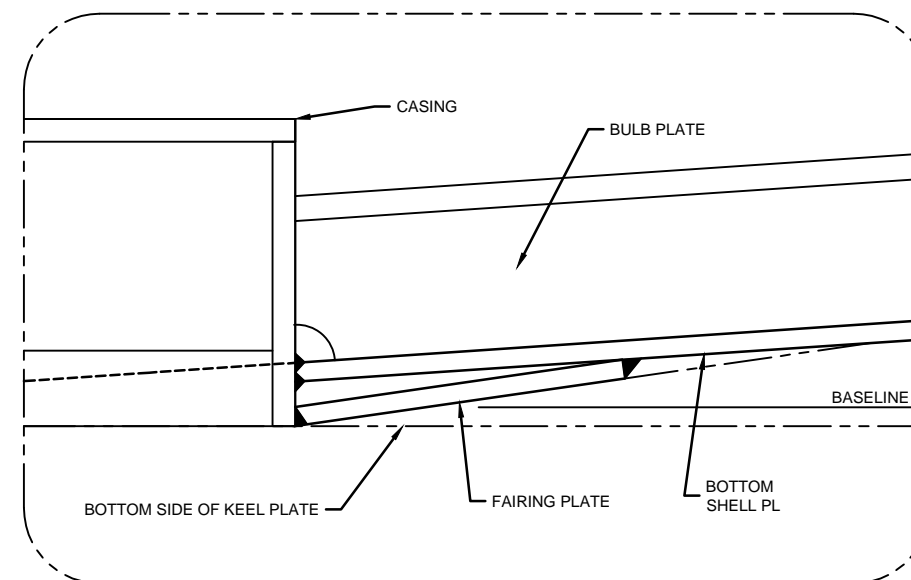
FR.121

LOOKING FORWARD

MODIFIED



-- NEW PARTS TO BE INSTALLED



DETAIL 1
SCALE 1:10

D	REVISED CUT-OUT IWO Tx CASING	RDB	2018-04-10
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Asset - Actif	
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CCGS HENRY LARSEN

INSTALLATION OF A MULTI-BEAM SOUNDER

Drawing - Dessin

TRANSDUCER STRUCTURE MODIFICATION

designed - conception

RDB 2017-12-13 0492

drawn - dessiné

RDB 2017-12-13

checked - vérifié

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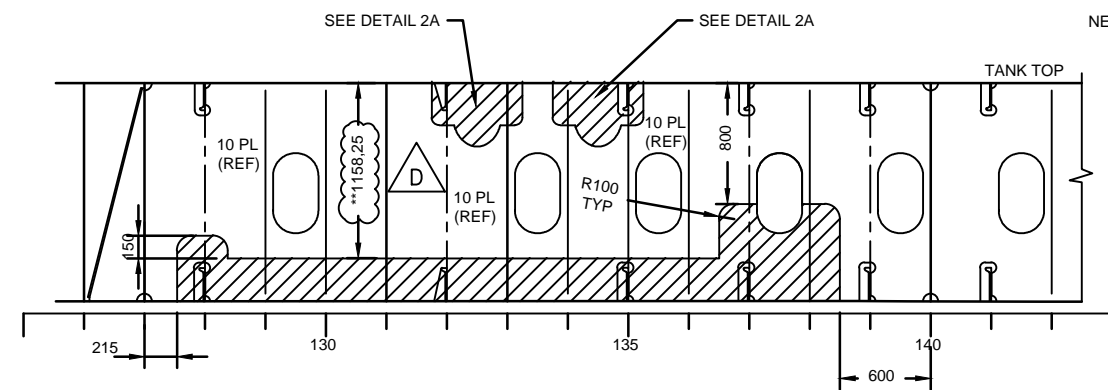
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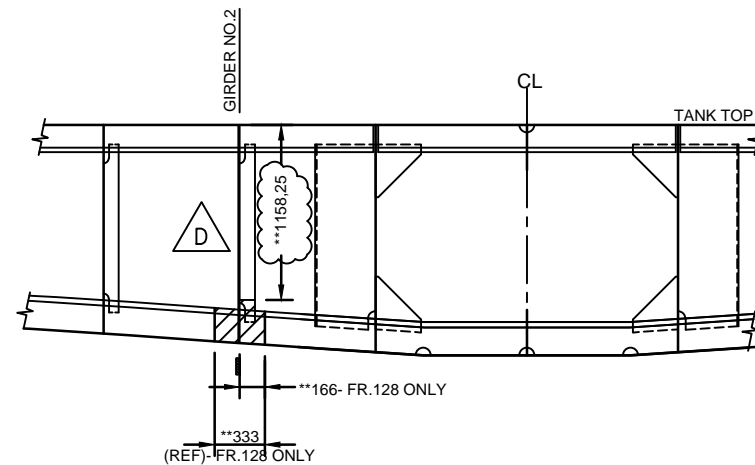
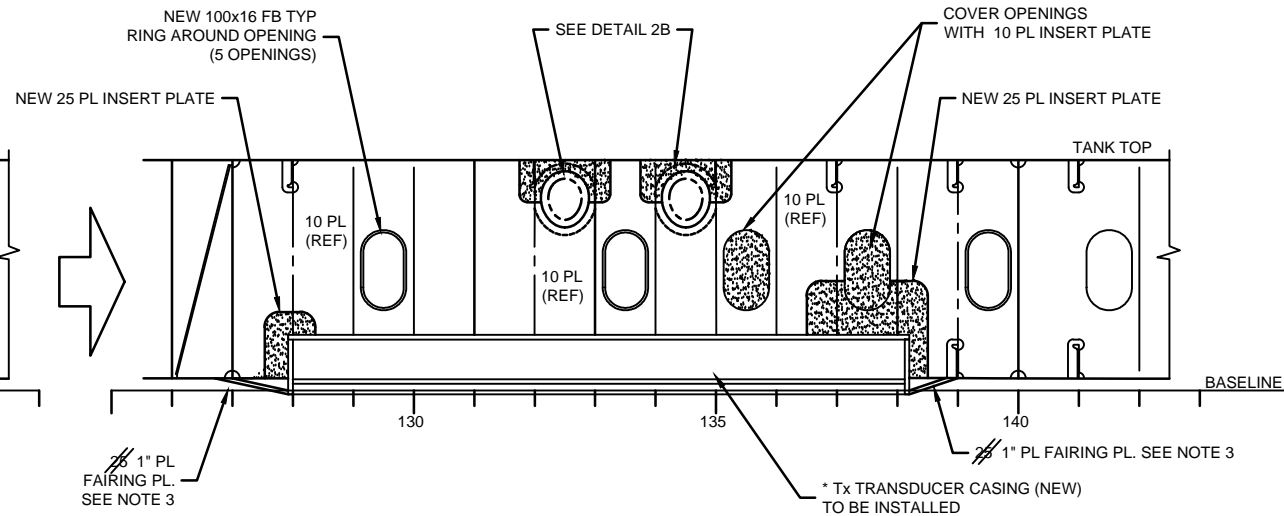


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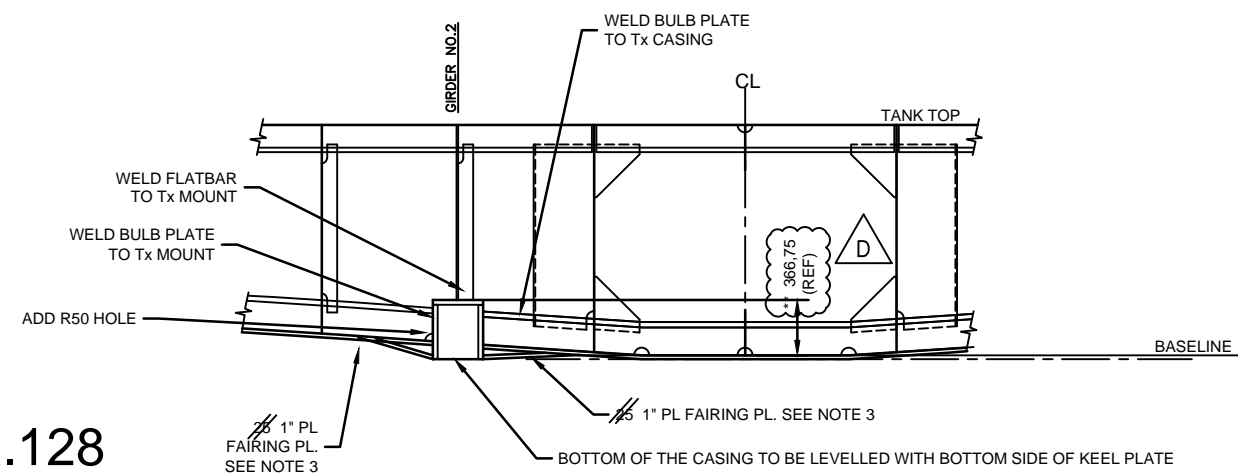
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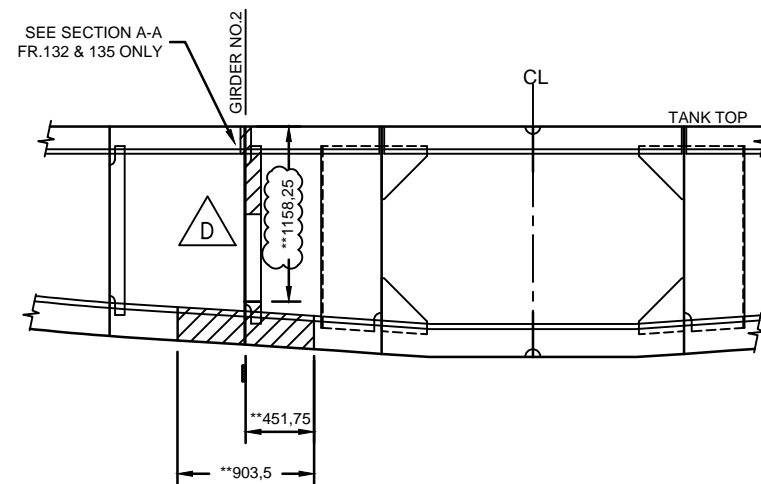


EXISTING

FR.128
LOOKING FORWARD



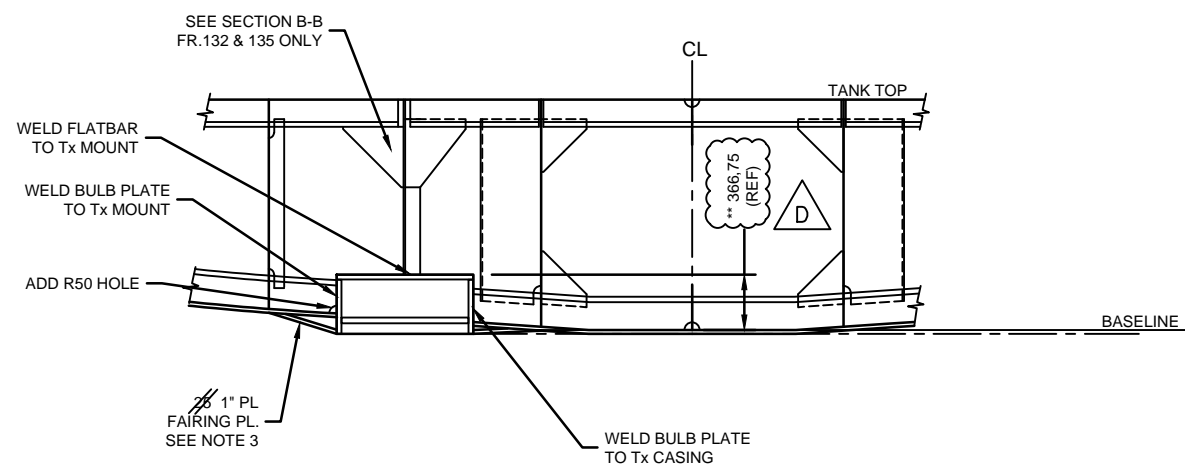
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EXISTING

FR.135

FR.132 &137 SIMILAR TO THIS UNO
LOOKING FORWARD



MODIFIED



Fisheries and Oceans Canada	Pêches et Océans Canada
Canadian Coast Guard	Garde côtière Canadienne



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D	REVISED CUT-OUT IWO Tx CASING	RDB	2018-04-10
C	REVISED AS PER CCGS COMMENTS	RDB	2018-04-06
B	FIRST ISSUE	RDB	2018-01-09
A	PRELIMINARY	RDB	2017-12-22
rev	description	by par	date

Asset - Actif	
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CCGS HENRY LARSEN

INSTALLATION OF A MULTI-BEAM SOUNDER

Drawing - Dessin

TRANSDUCER STRUCTURE MODIFICATION

designed - conception

date	2120
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RDB	2017-12-13	049
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drawn - dessiné	date
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RDB 2017-12-13

checked - vérifié	date
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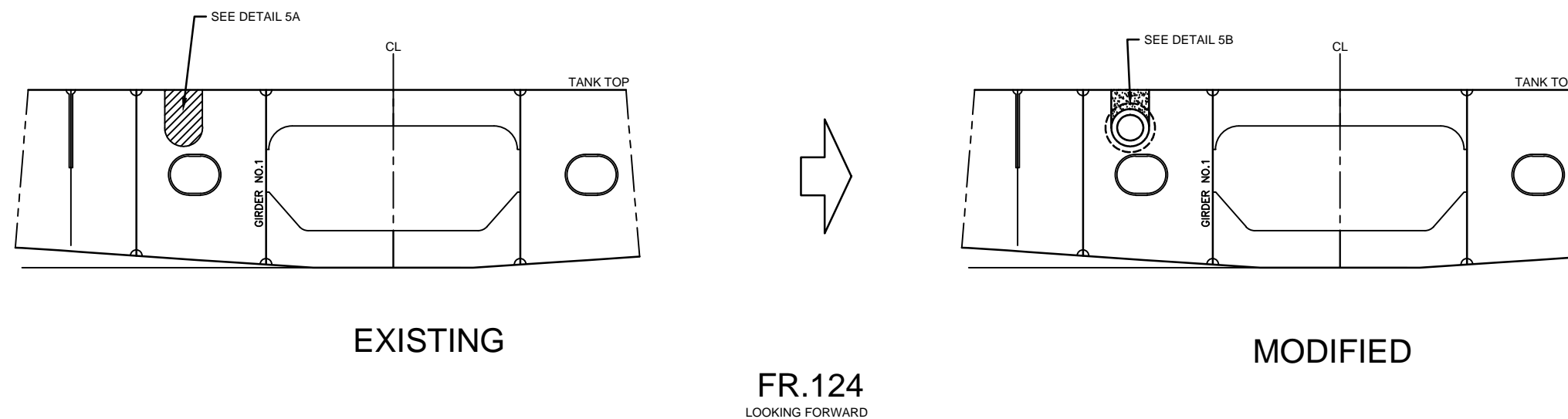
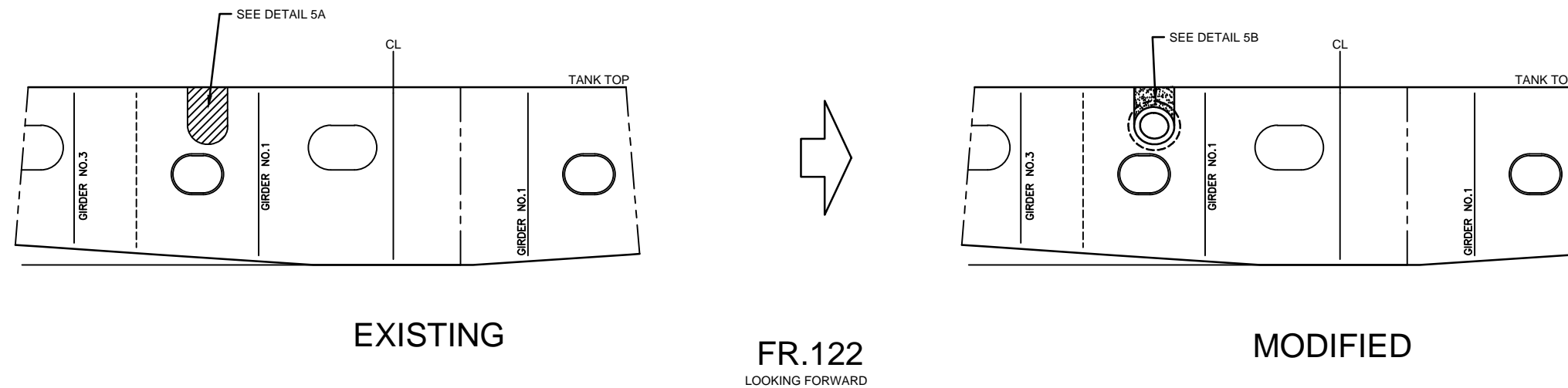
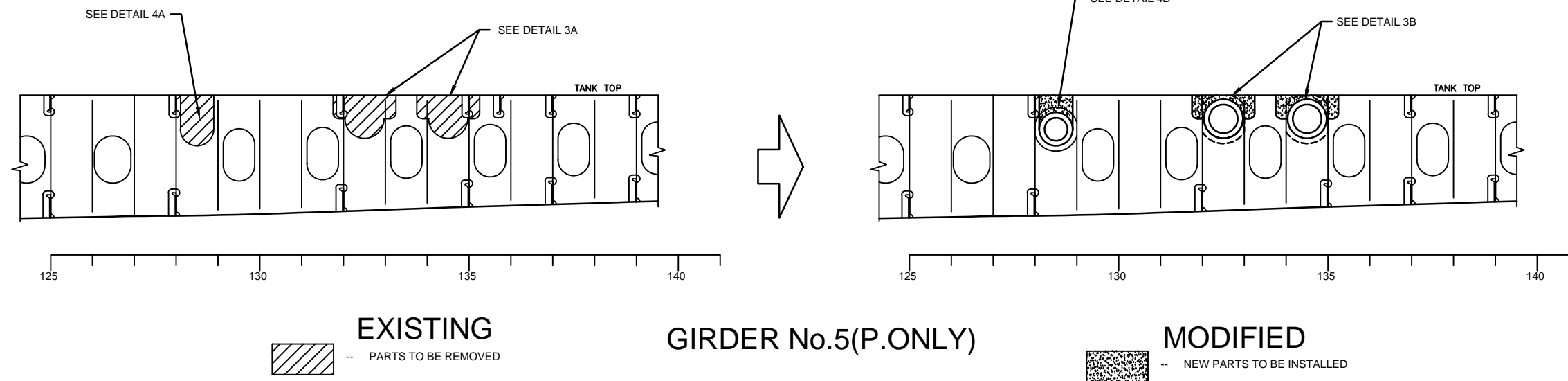
approved - approuvé	date	File
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CCG ref. no. - no. réf. GCC	scale - échelle
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REF NO / PROJ NO / FILE NO	1:50
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drawing no. - no. dessin	sheet-feuille	rev
01001		

21261	06/11	D	AN
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D	REVISED CUT-OUT IWO Tx CASING	RDB	2018-04-10
C	REVISED AS PER CCGS COMMENTS	RDB	2018-04-06
B	FIRST ISSUE	RDB	2018-01-09
A	PRELIMINARY	RDB	2017-12-22
rev	description	by par	date

Asset - Actif	
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CCGS HENRY LARSEN

INSTALLATION OF A MULTI-BEAM SOUNDER

Drawing - Dessin

TRANSDUCER STRUCTURE MODIFICATION

designed - conception

RDB 2017-12-13 0492

drawn - dessiné

RDB 2017-12-13

checked - vérifié

..... / Figs

approved - approuvé

[illegible]

CCG ref. no. - no. réf. GCC

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drawing no. - no. dessin

21261	09/11	D
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