

PLAN HISTORY					
DATE	REV. NO.	DESCRIPTION	DRAWN	CHECKED	APPROVED
2022-09-28	0	8020/8021 호선 COMPANIONWAY FITTINGS 제작 도면으로 작성함.	박 준 영	권 승 현	황 규 성

PAINTING SPEC.						PAINT SUPPLIER		
PAINT'G SYMBOL	PAINT ITEM OR AREA	MAT'L	SHOP PRIMER	표면 처리	BRAND NAME OF PAINT AND ITS COLOR SHADE	D.F.T (μ)	REMARK	
** PAINT CODE 납기 LIST 참조할 것.								
	ITEM	IN SIDE & OUT SIDE			IN SIDE	OUT SIDE		
	ALL	FINAL	SHOP PRIMER	PRIMER				

NOTE

- 1. 본도는 COMPANIONWAY FITTINGS 제작 도면임.
- 2. 모서리 부분은 하기와 같이 GRINDING 할 것.

- 3. 용접은 특기와 하기 표 참조하고 연속 용접 할 것.

* THE LEG LENGTH OF FILLET WELD TO BE AS FOLLOWS.

MAL'T THICKNESS	4.5	6	7~8	9~10	11~12	13	14~15	16~18	19~20
LEG LENGTH	3	4	4.5	5	5.5	6	7	7.5	9

- 4. 제작 시 DECK 상의 SHEER (\$: /)와 CAMBER (φ : /)를 필히 적용할 것.

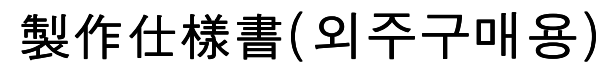
SHEER :

CAMBER :

- 5. 한 도면에서 서로 상이부분이 있거나 제작상 문제점 발생시 필히 당부와 협의/확정 후 제작 완료할 것.
- 6. 본 도면상에 표기된 자재 중 SS400 , 단조품(SF자재) 및 용접되는 주강품(SC42)은 탄소(C) 함유량이 0.23% 이하가 되어야 함에 유의할 것 (자재 MILL SHEET 제출 요). 또한, 주강품은 용접 시 PRE-HEATING(200℃) 한 후 용접하여 용접균열을 방지할 것.
- 7. BOLT 길이는 NUT 체결후 ABT. 2-3 산이 남도록 할 것.
- 8. 이름/경고판 시공기준 : 모든 이름/경고판은 전면에 페인트나 신나에 녹지않는 비닐테이프를 부착한 상태로 뒤집어 조립하고, 그 후면에 도어 또는 밴트(VENT) 이름을 매직펜으로 기록하여 입력하고, 야드에서 정방향 설치시 나사산의 위치가 불일치 되지 않도록 구멍의 간격을 잘 유지하여 입고 할 것.
(이름, 경고판 재질: SUS316 & SUS316 SCREW BOLT)
- 9. 그리스 니뷸 : JIS B 1575 A-PT 1/8" BALL TYPE 러버캡을 씌울것(MAT'L : SUS304)
- 10. P.O.R NO. : JFY

11. TOTAL WEIGHT : 125.3 KG/SHIP (표지 포함 09 매)

DEP'T.	SHIP NO.	SHIP TYPE
B126	8020 / 8021	158,000 DWT CLASS CRUDE OIL CARRIER
TEL.	부서명	도 면 명
2909	선 장 설 계 부	
승 인	황 규 성	MFG. OF COMPANIONWAY FITTINGS (FORESHIP) 제 작 도
검 도	권 승 현	
작 성	박 준 영	
<div></div> <div>HYUNDAI SAMHO HEAVY INDUSTRIES CO., LTD. SAMHO SHIPYARD, KOREA</div>		도 면 번 호
		F91CJ-333B - 0
		날 짜
		2022-09-28



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- 유원 SPEC.
- PAINTING
- PAINT & GALV. : 15mm
- (SHOP PRIMER OR Alkyd Resin MP-120 (KCC))

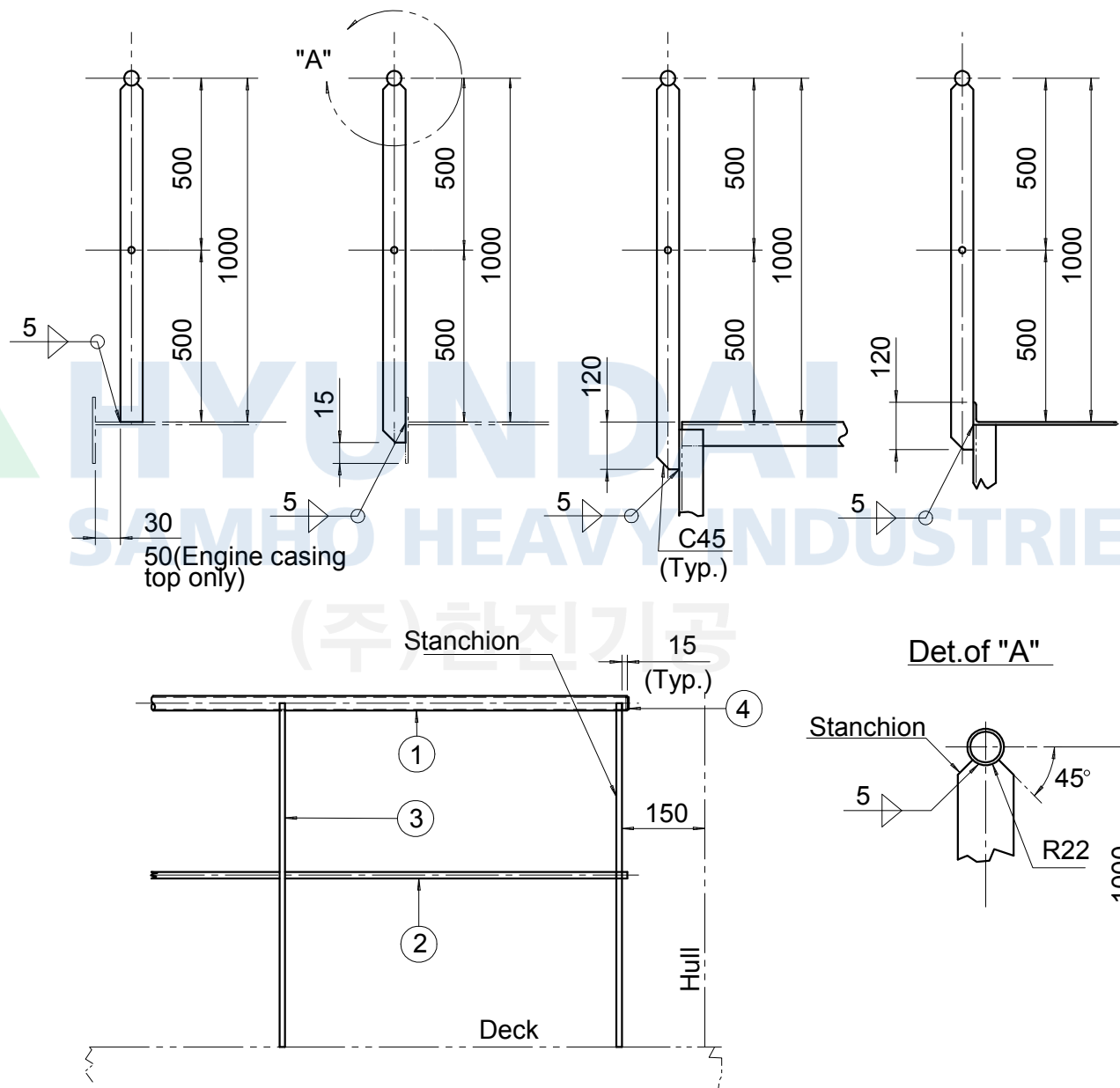
6. GALV. 용 HOLE 시공할 경우는 GALV. 후 메공하고 GALV. 손상부위 수정 후 입고할 것.
7. 납품 시 P.O.R SHEET와 유침도를 첨부할 것.
8. MAKER CERTIFICATE (특수재료는 MILL SHEET) 를 첨부할 것.
9. 무도장으로 입고되는 품목으로서 그 품목의 일부분이 도금이 되어있는 경우는 SHOT BLASTING으로부터 도금부분이 훼손되지 않도록 보호 MASKING을 하여 입고할 것.
(단, 도금표면에 다시 PAINTING하는 경우는 제외됨)
10. 의장품 자재 PALLET 고박용 번선 및 고박 ITEM에 대한 묶음 WIRE(철사)는 필히 부식 방지용 COATING WIRE를 사용하여 입고시킬 것.
11. 의장품 자재 입고시 상.하.좌.우로 움직일수 있는 항목들은 상기 10)번항에 의거하여 반드시 고박하여 입고할 것.(안전사고 사전방지)
12. 납품 시 하기와 같은 TAG를 식별하기 쉬운 위치에 적의 부착하여 입고할 것.
 - 1) 용접선 있는 자재는 용접선 부근 50mm 이내 PAINT MARKER 마킹 적용
(설치 후 은폐 도장작업 쉽게 하기 위함)
 - 2) 용접선 없는 자재는 자재 인식표(TAG) 또는 안티 울트라테이프에 마킹 후 부착
(자재 TAG 및 안티 울트라테이프 제거는 의장 1,2부에서 실시함)
 - 3) 적용대상 : 강재로 제작되는 모든 철의장품
 - 4) MARKING 방법 : SHIP NO., BLOCK NO., POR NO., MARKING(PC'S) NO.

제작품별 납기 LIST

SHIP NO.	8020 / 8021	01 /
DWG NO.	F91CJ-333B	

P.O.R NO	SEQ NO	BLOCK	STAGE	MARK NO	DESCRIPTION	PAINT CODE	Q'TY /SHIP	WEIGHT (KG/SET)	설치부서
JFY	1	F91C	FS	HR-F04	HANDRAIL	GD	1	23.4	
	2	F91C	FS	HR-F05	HANDRAIL	GD	1	44.0	
	3	F91C	FS	VLD-F02	VERTICAL LADDER	GD	1	38.0	
	4	F91C	FS	SRA-F01	STORM RAIL	GD	1	5.7	
	5	F91C	FS	SRA-F02	STORM RAIL	GD	1	3.5	
	6	F91C	FS	SRA-F03	STORM RAIL	GD	1	8.2	
	7	F91C	FS	SRA-F04	STORM RAIL	GD	1	2.5	

HANDRAIL (TYPE - A2)							KEEP CHAIN (TYPE - B)					SHIP NO. 8020 / 8021		02
												DWG NO. F91CJ-333B		
No.	Description	Size	Mat'l	Q'ty /Set	Wt(kg)	Remark	No.	Description	Size	Mat'l	Q'ty	Remark		
1	Top rail	32A(O.DØ42.7)	SPP	1		Painted except Note 3 (See Note 3)	1	Long chain	Ø 8 Long link chain	SS400 or SS275	1	Hot-dip Galv.		
2	Mid rail	Ø 19 R.B	SS400 or SS275	1			2	Pig tail	Ø 9 R.B	SS400 or SS275	1	Hot-dip Galv.		
3	Stanchion	65x16t F.B	SS400 or SS275	1			3	Hanger	6t	SS400 or SS275	2	Hot-dip Galv.		
4	End plate	6t Plate	SS400 or SS275	1			4	End stanchion	65x16t F.B	SS400 or SS275	2	Hot-dip Galv.		
							5	Hex.bolt & nut	M10x45LX20S	SUS304	1	With Split pin		
							6	Eye	Ø 9 R.B	SS400 or SS275	1	Hot-dip Galv.		

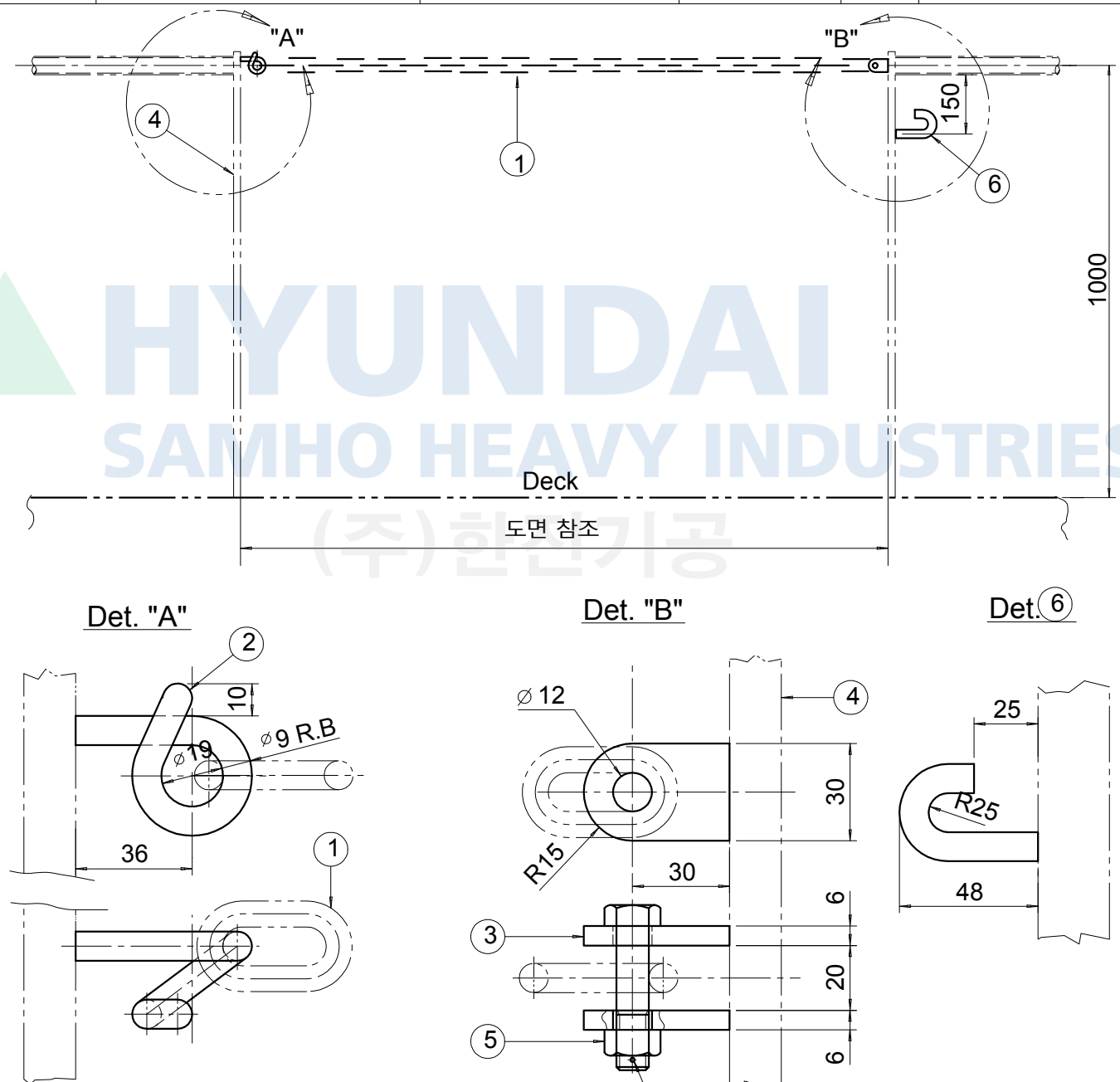


Note

1.Stanchion space : Abt.1500mm

2.Application : Mast/Post/Window washing platform
Platform/Walkway/Rampway on exposed deck. (If necessary)
Engine casing top.(When e/casing is separated from deck house part)
Deck store top & Pump room entrance top
Around on platform for hose handling crane
Bow chock top.(If required by B/Spec.)

3.Galvanized with painting to be done at radar and fore mast, engine casing, deck house & bow chock top.



Note

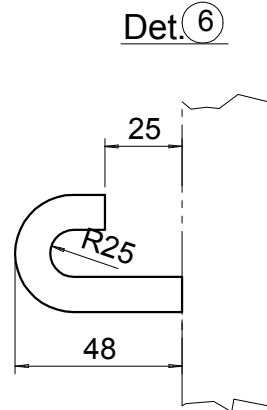
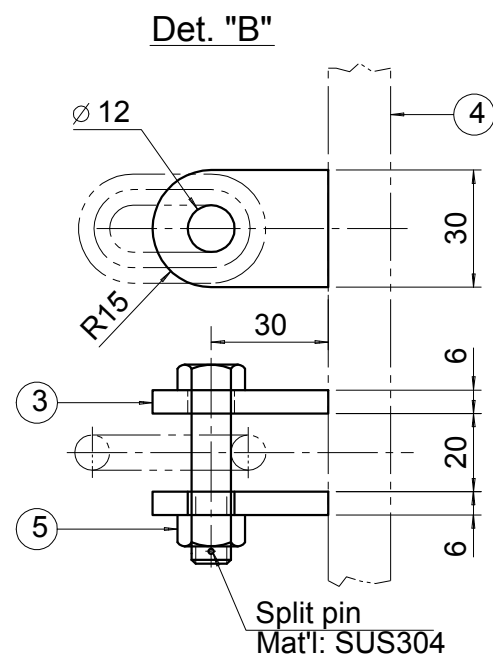
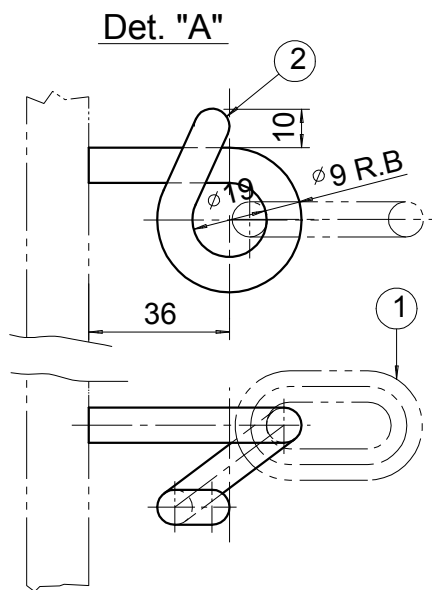
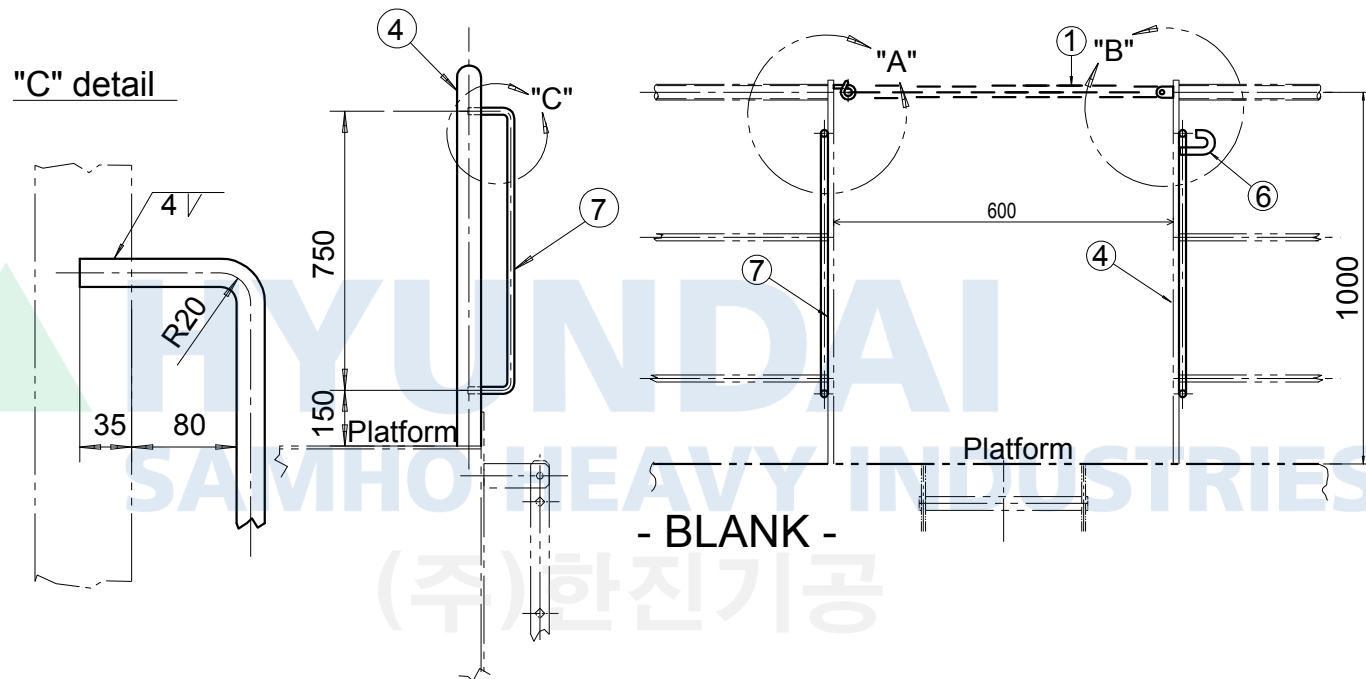
1. Application : Opening parts for life raft, embarkation ladder and accommodation ladder.

2. Q'ty of chain row to be adjusted as same as the adjacent handrail.



HANDGRIP AND KEEP CHAIN (FOR VERTICAL LADDER)

No.	Description	Size	Mat'l	Q'ty	Remark
1	Long chain	∅ 8 Long link chain	SS400	1	Hot-dip Galv.
2	Pig tail	∅ 9 R.B	SS400	1	Hot-dip Galv.
3	Hanger	6t	SS400	2	Hot-dip Galv.
4	End stanchion	65x16t F.B	SS400	2	Hot-dip Galv.
5	Hex.bolt & nut	M10x45LX20S	SUS304	1	With Split pin
6	Eye	∅ 9 R.B	SS400	1	Hot-dip Galv.
7	Hand grip	∅ 19 R.B	SS400	2	Hot-dip Galv.



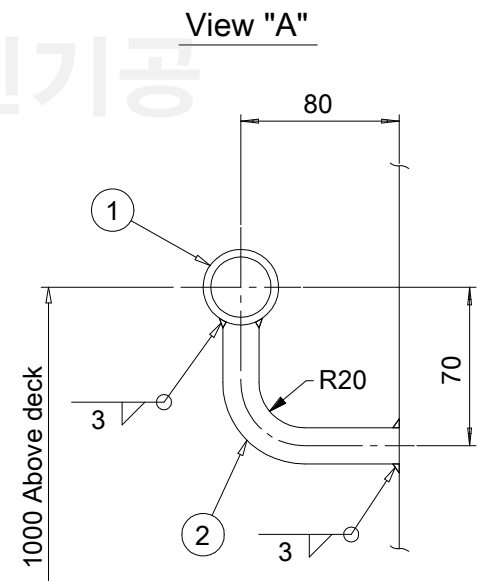
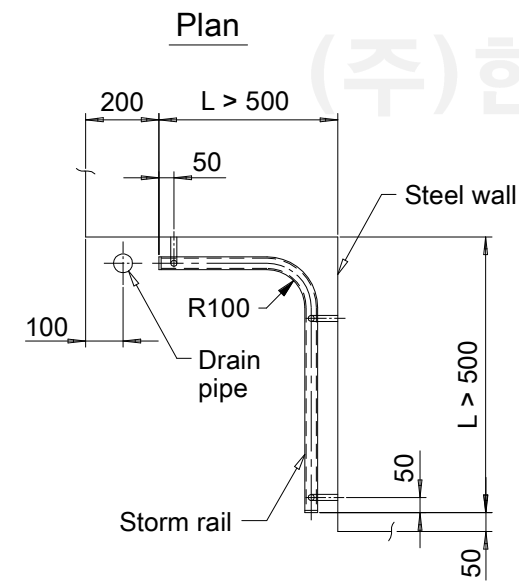
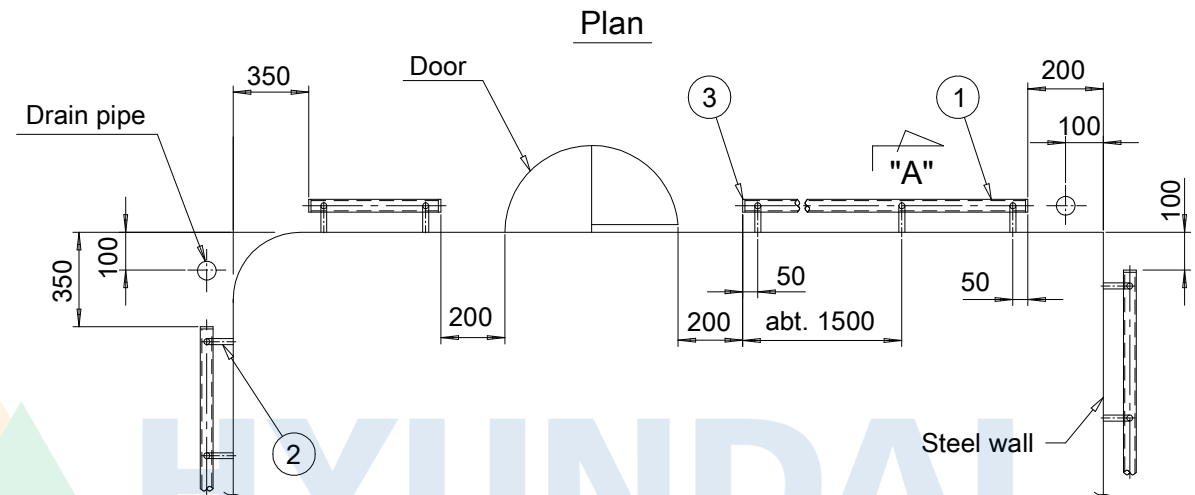
Note

1. Application : In way of vertical ladder for access to platforms on weather deck

STORM RAIL

SHIP NO.	8020 / 8021	03
DWG NO.	F91CJ-333B	


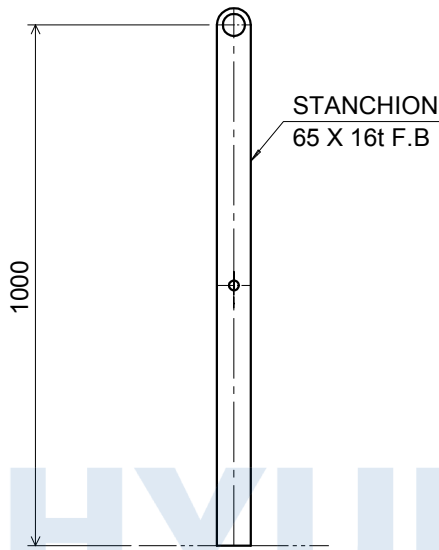
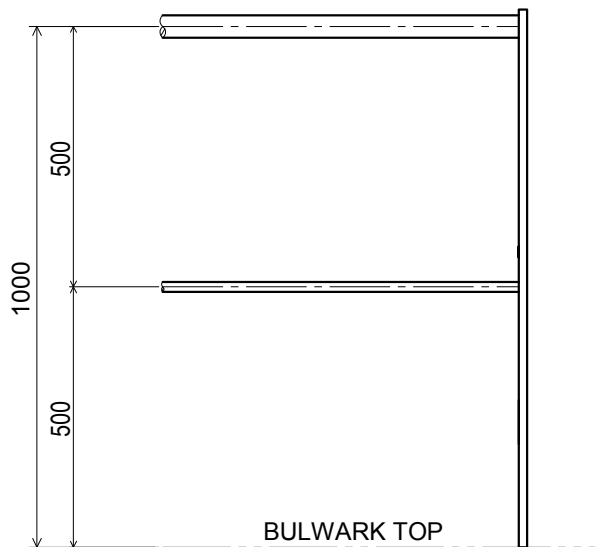
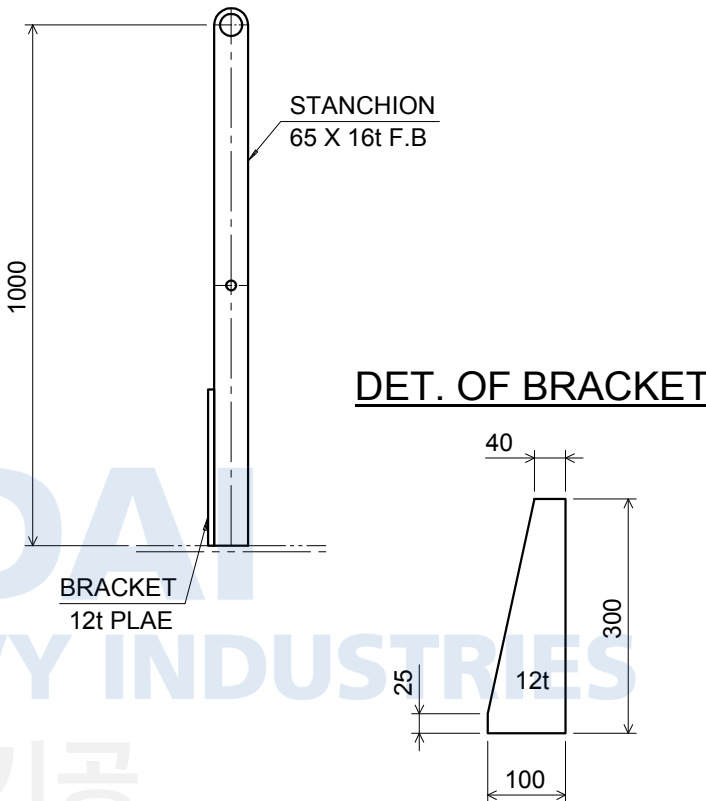
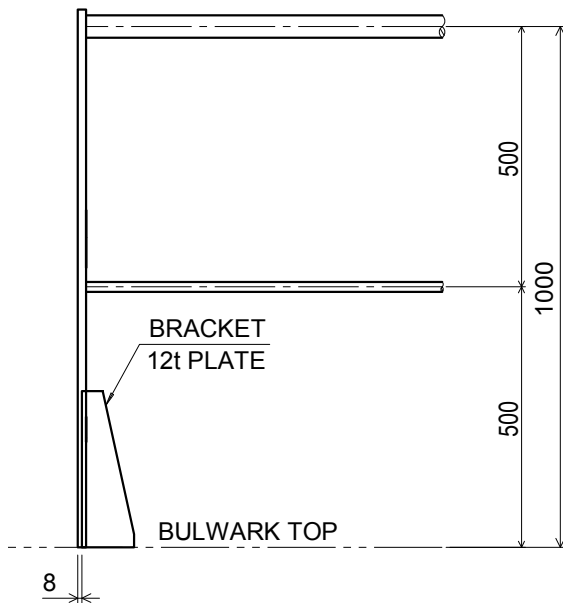
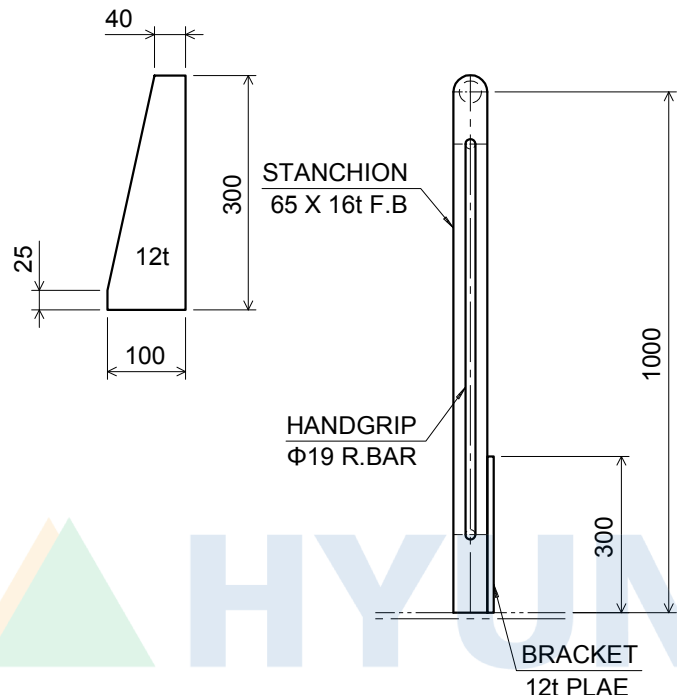
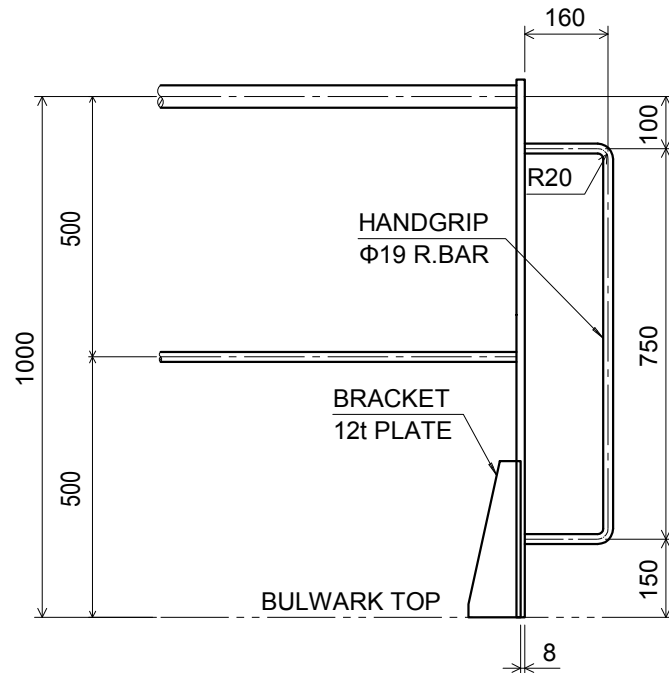
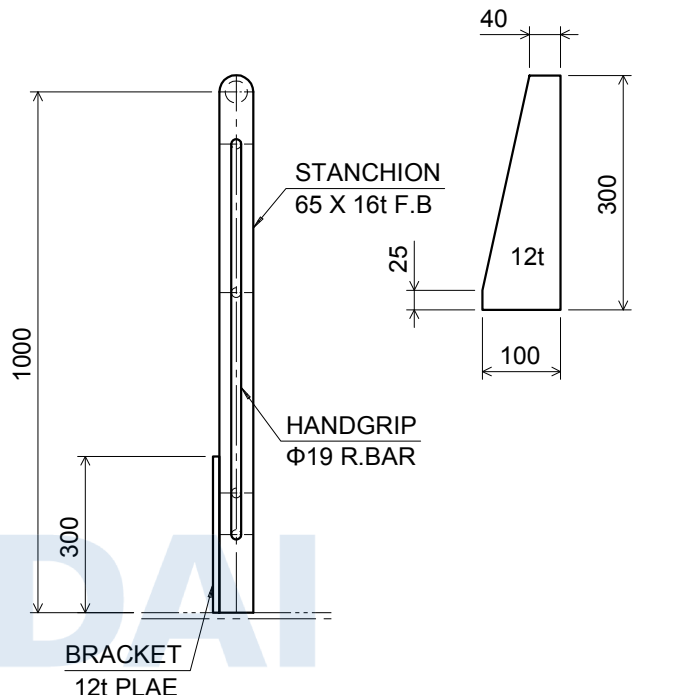
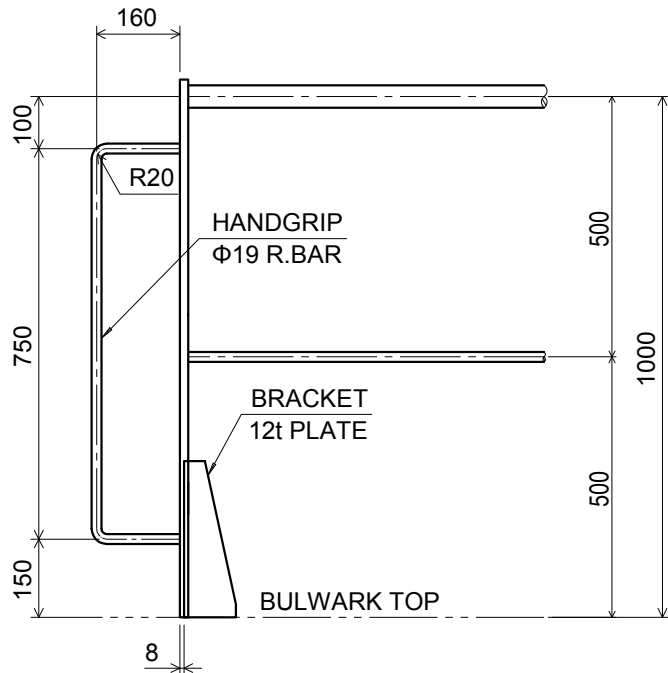
No.	Description	Size	Mat'l	Q'ty/Set	Wt(kg)	Remark
1	Storm rail	25A(O.D 34)	SPP		2.43 kg/m	Hot-dip Galv.+ Painted
2	Hanger	∅ 16 R.B	SS400 or SS275		1.58 kg/ea	Hot-dip Galv.+ Painted
3	End plate	∅34x6 plate	SS400 or SS275		0.04 kg/ea	Hot-dip Galv.+ Painted



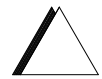
* Steel cap to be welded at end of storm rails.
edge to be grinded smoothly

Note

1. Hanger space : Approx. 1500mm
2. Application : Around deck house wall, Engine casing wall, Companionway & C.G.Locker.

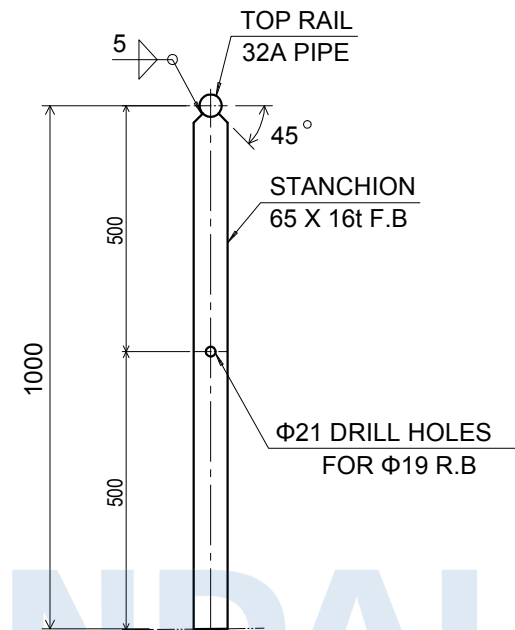
	DETAIL OF HANDRAIL STANCHION (COMPANION TOP 적용)			SHIP NO. 8020 / 8021	04		
				DWG NO. F91CJ-333B			
TYPE - E		TYPE - EB		TYPE - BHR		TYPE - BHL	
<div><p>STANCHION 65 X 16t F.B</p><p>1000</p></div> <div><p>(END STANCHION에 적용)</p><p>BULWARK TOP</p></div>		<div><p>STANCHION 65 X 16t F.B</p><p>1000</p><p>DET. OF BRACKET</p><p>BRACKET 12t PLAE</p><p>40</p><p>12t</p><p>300</p><p>25</p><p>100</p></div> <div><p>(END STANCHION에 적용)</p><p>BRACKET 12t PLATE</p><p>BULWARK TOP</p><p>8</p></div>		<div><p>DET. OF BRACKET</p><p>STANCHION 65 X 16t F.B</p><p>1000</p><p>BRACKET 12t PLAE</p><p>HANDGRIP Φ19 R.BAR</p><p>300</p></div> <div><p>(END STANCHION에 적용)</p><p>HANDGRIP Φ19 R.BAR</p><p>BRACKET 12t PLATE</p><p>BULWARK TOP</p><p>8</p></div>		<div><p>DET. OF BRACKET</p><p>STANCHION 65 X 16t F.B</p><p>1000</p><p>BRACKET 12t PLAE</p><p>HANDGRIP Φ19 R.BAR</p><p>300</p></div> <div><p>(END STANCHION에 적용)</p><p>HANDGRIP Φ19 R.BAR</p><p>BRACKET 12t PLATE</p><p>BULWARK TOP</p><p>8</p></div>	
TOP RAIL : 32A PIPE		STANCHION : 65 X 16t F.B		TOP RAIL : 32A PIPE		STANCHION : 65 X 16t F.B	
MID RAIL : Φ19 R.BAR		STAY : 12t PLATE		MID RAIL : Φ19 R.BAR		HANDGRIP : Φ19 R.BAR	

S8020-F91CJ333B-005

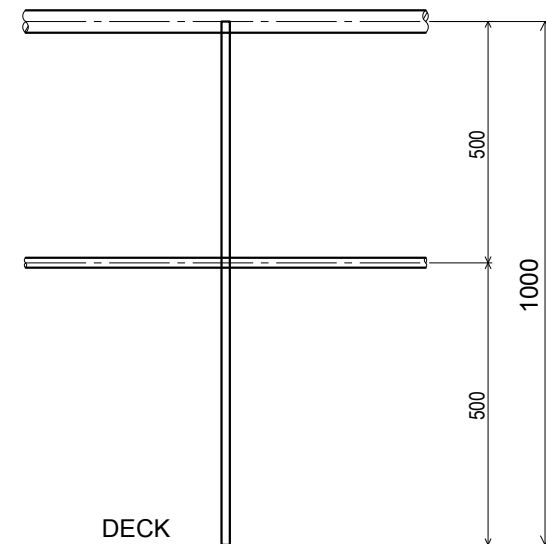


DETAIL OF HANDRAIL STANCHION (COMPANION TOP)

TYPE - M



(MID STANCHION에 적용)



TOP RAIL : 32A PIPE

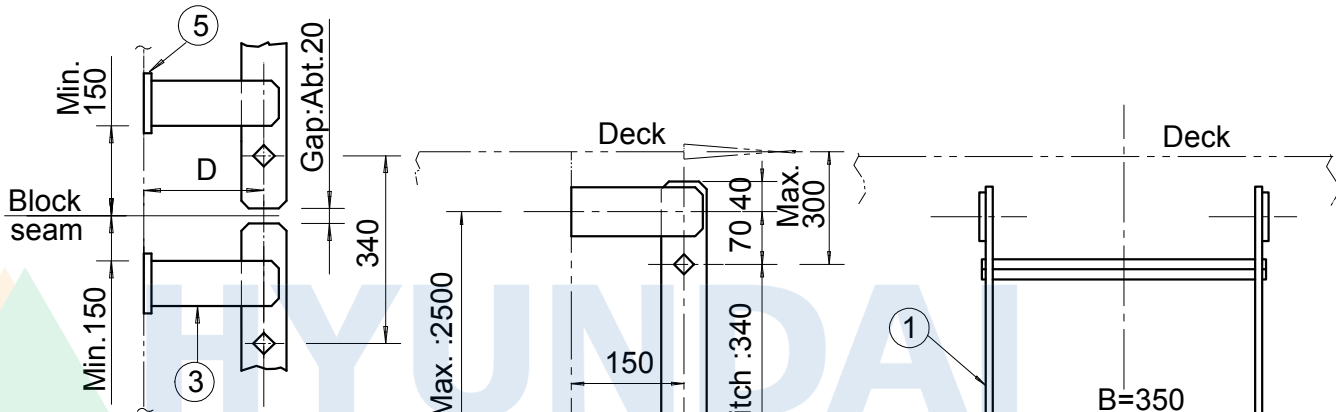
MID RAIL : Φ19 R.BAR

VERTICAL LADDER (TYPE-C)

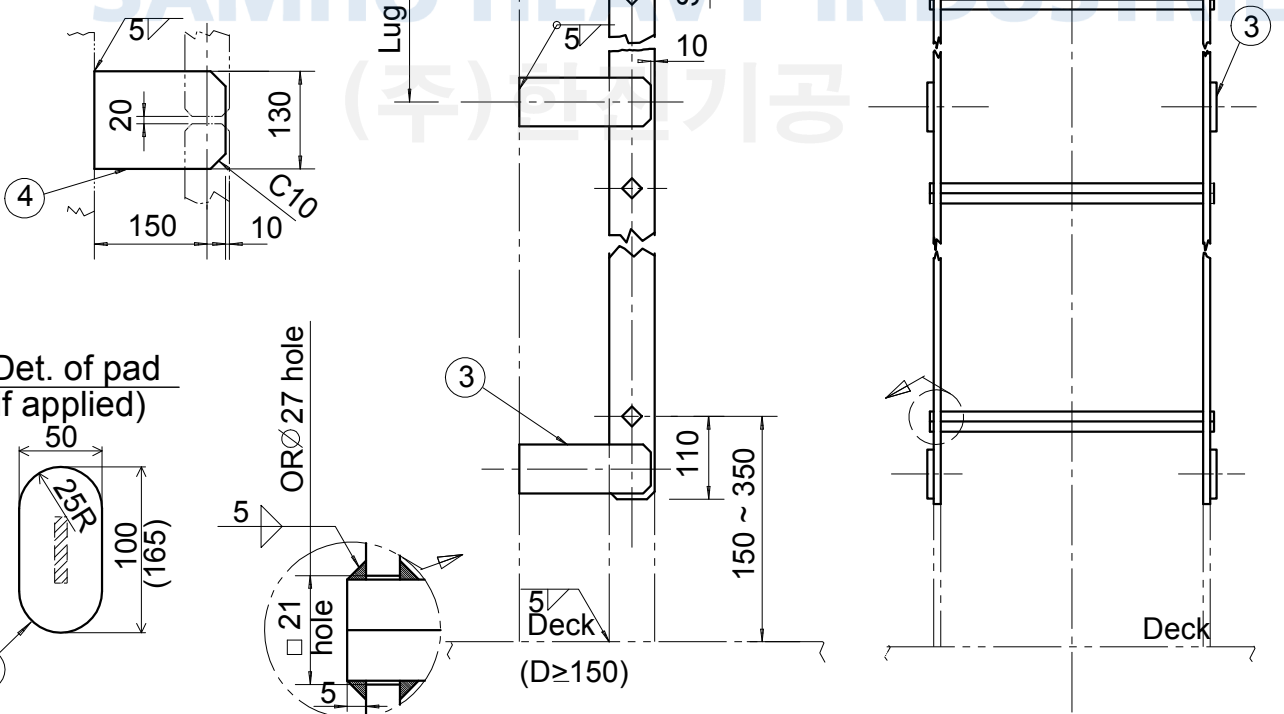
SHIP NO.	8020 / 8021	05
DWG NO.	F91CJ-333B	

No.	Description	Size	Mat'l	Weight(kg)	Remark
1	Side frame	65X9t F.B	SS400	3.56/m	Galv'd and Painted
2	Step	19 SQ.bar	SS400	2.83/m	Galv'd and Painted
3	Lug	65x9t F.B	SS400	0.56/EA	Galv'd and Painted
4	Connection	9t Plate	SS400	1.01/EA	Galv'd and Painted
5	Pad	9t Plate	SS400	0.35/EA	Galv'd and Painted

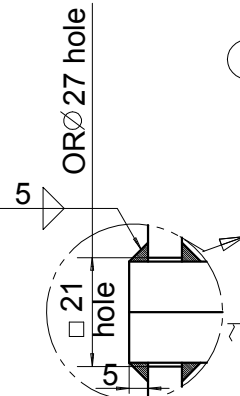
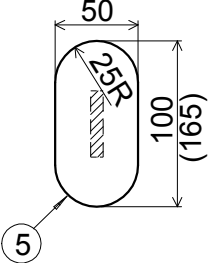
Det. of connection
(Type-C1)



(Type-C2)



Det. of pad
(if applied)



Note

1.Application : Weather part - mast/post/crane/miscellaneous part

2.Connection : Type-C1 shall be applied between ladder when ladder is installed in way of block division.

Type-C2 shall be applied between ladder when ladder length exceeds about Max. 6000mm.

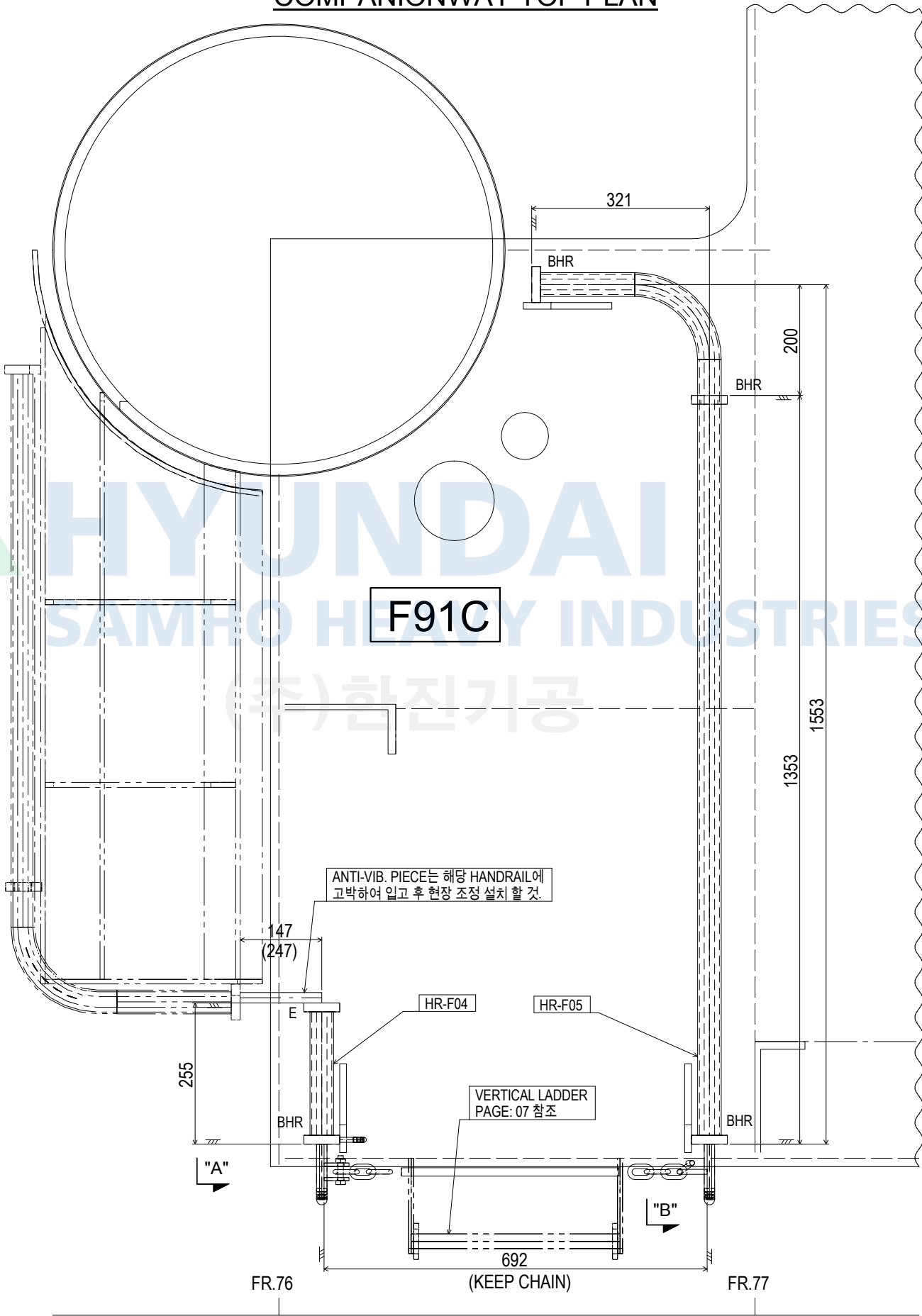
DETAIL OF COMPANION TOP (HANDRAIL)

SHIP NO.	8020 / 8021	06
DWG NO.	F91CJ-333B	

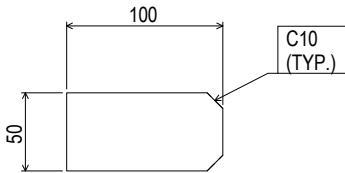
BLOCK NO.	MARK NO.	WEIGHT	REMARK
F91C	HR-F04	23.4	본도제작
	HR-F05	44.0	

- NOTE
- 1. 본도는 PORT & STBD SIDE를 나타내었으며, 본도대로 제작 할 것.
 - 2. ANTI-VIB. PIECE는 분실되지 않도록 고박하여 입고 후, 현장 조정 설치 할 것.

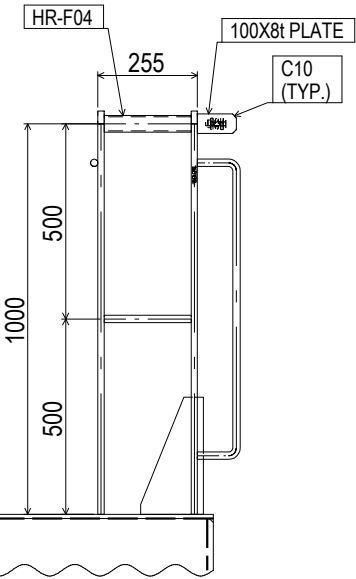
COMPANIONWAY TOP PLAN



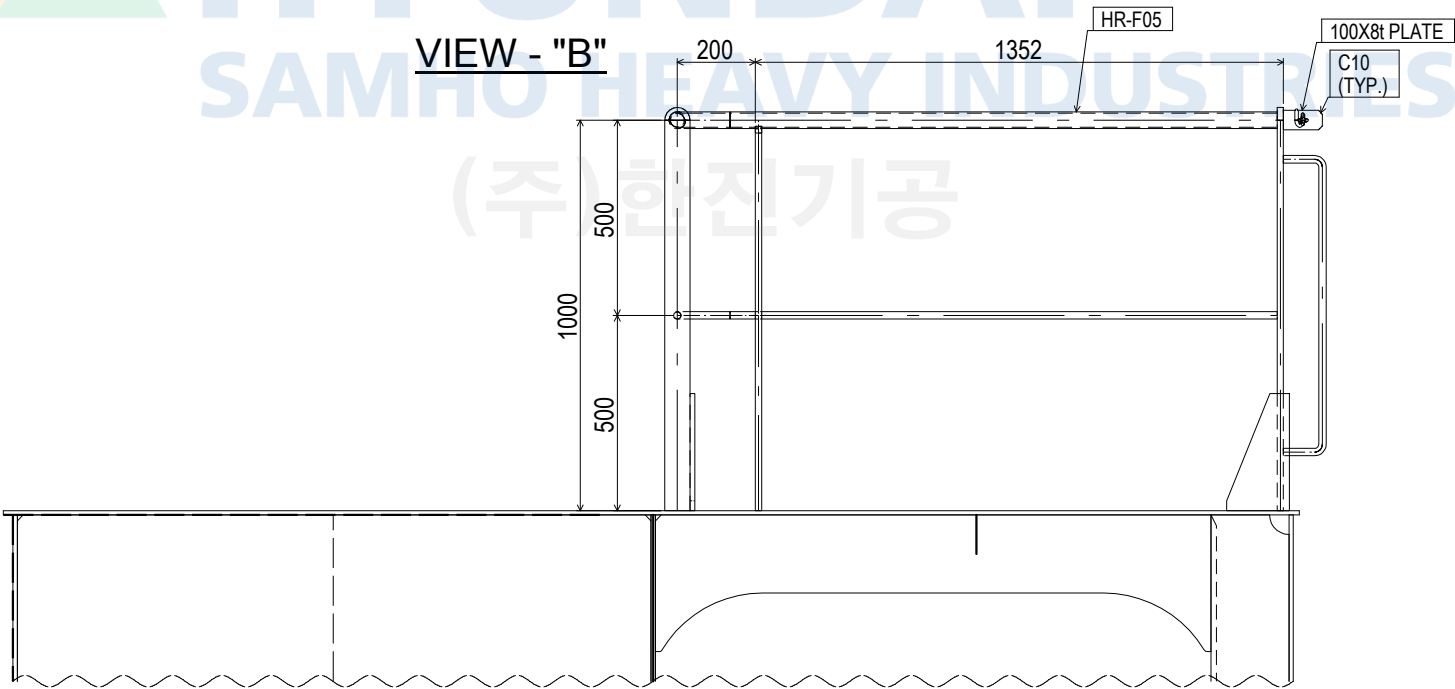
DETAIL OF. PLATE(8t)



VIEW - "A"

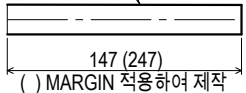


VIEW - "B"



DET. OF ANTI-VIB. PIECE
(현장 조정 설치할 것.)

ANTI-VIB. PIECE 현장 조정 설치할 것.
(분실에 유의하여 고박하여 입고할 것.)



S8020-F91CJ333B-006



DETAIL OF STORM RAIL (COMPANIONWAY WALL)

SHIP NO. 8020 / 8021

08

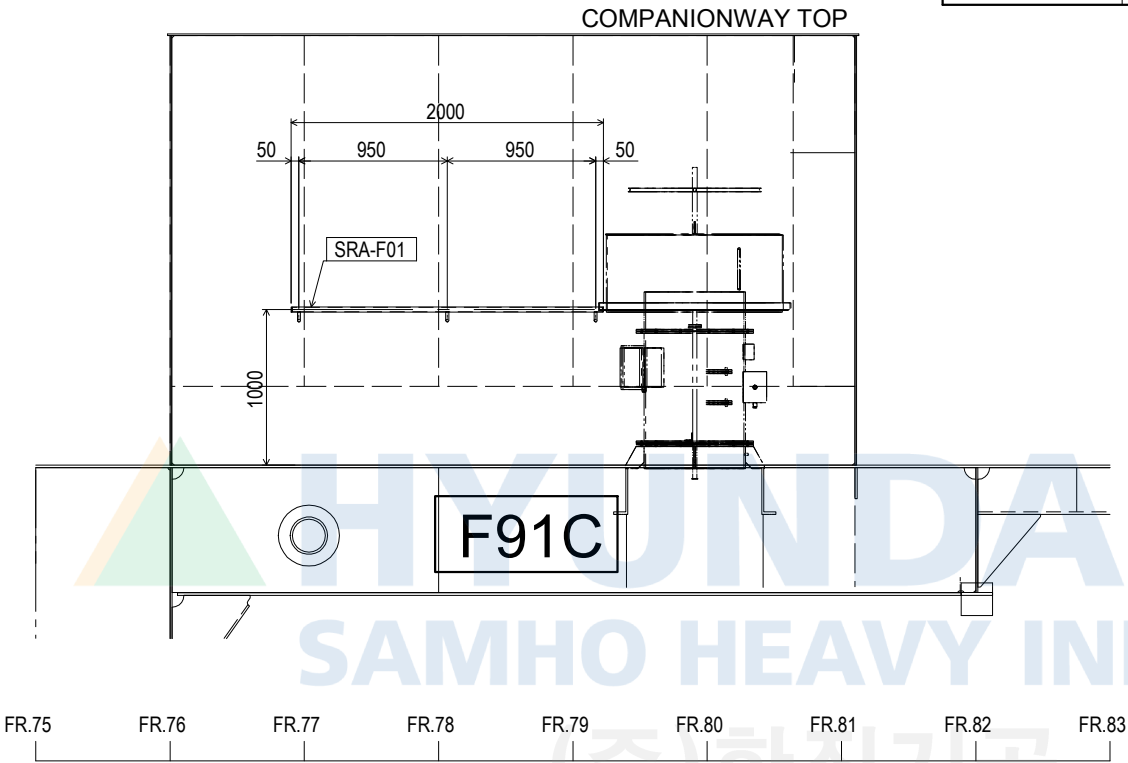
DWG NO. F91CJ-333B

NOTE

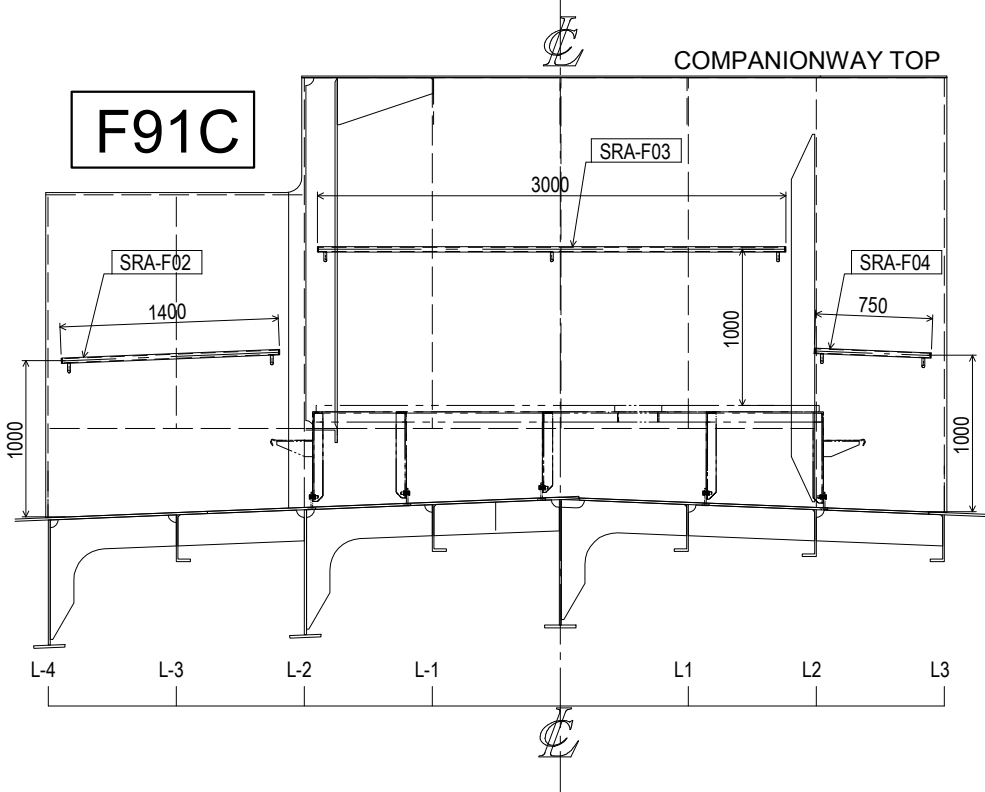
1. 본도는 PORT & STB'D SIDE를 나타내었으며, 본도대로 제작 할 것.
2. STORM RAIL은 DECK와 평행하게 설치해야하며, 높이는 DECK에서 1000mm임.

BLOCK NO.	MARK NO.	WEIGHT	REMARK
F91C	SRA-F01	5.7	본도제작
	SRA-F02	3.5	
	SRA-F03	8.2	
	SRA-F04	2.5	

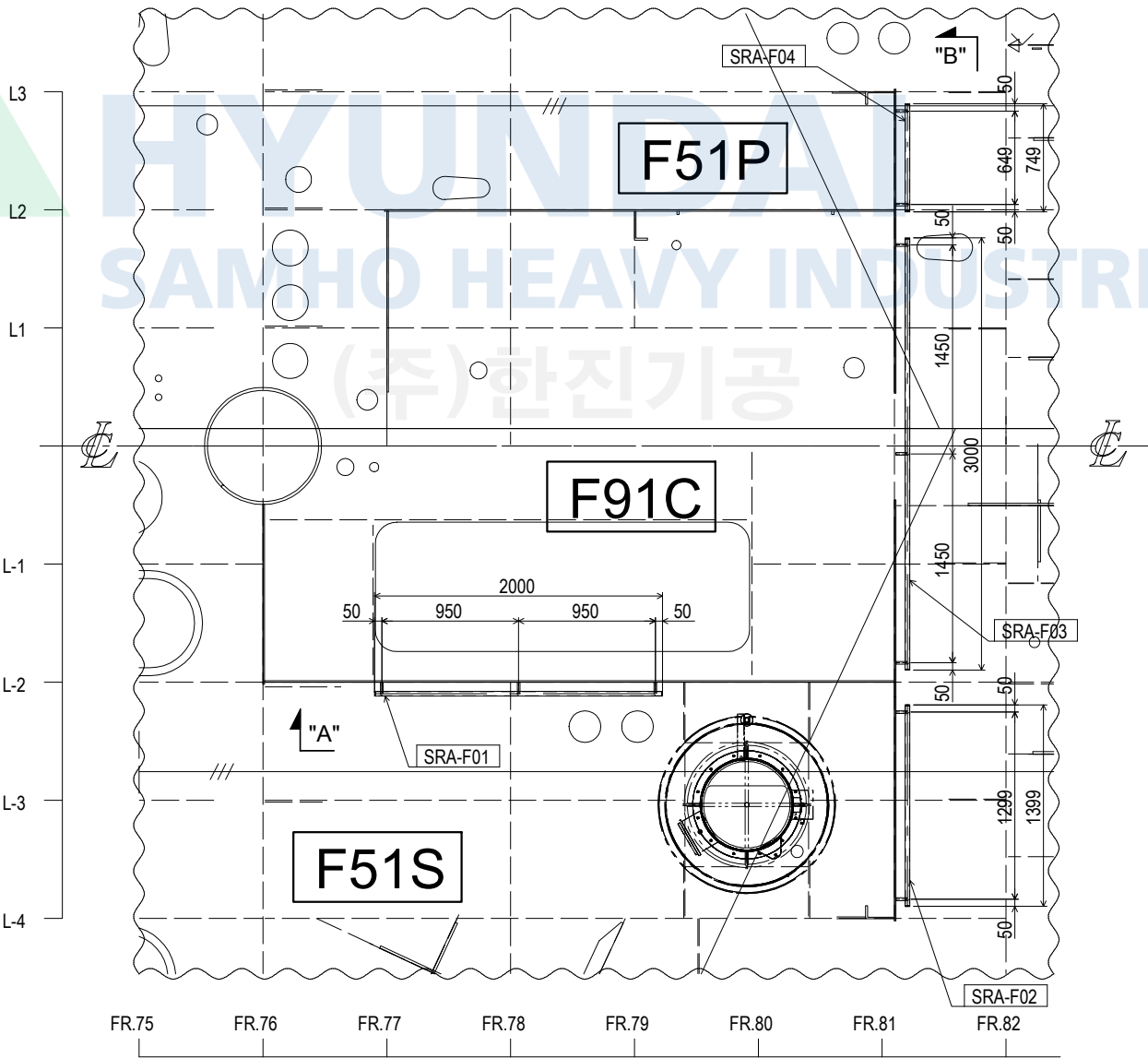
VIEW - "A"



VIEW - "B"



COMPANIONWAY TOP PLAN



S8020-F91CJ333B-008