

DRAWING LEGEND

- TRAFFIC MOVEMENTS - TRUCKS FULL
- TRAFFIC MOVEMENTS - TRUCKS EMPTY
- LOT BOUNDARIES
- - - EPA INDUSTRIAL/SENSITIVE LAND USE SEPARATION DISTANCE - 500m RADIUS
- CBH SITE BOUNDARY
- CBH RAIL LEASE BOUNDARY
- PROPOSED SITE BOUNDARY
- OHP --- OVERHEAD POWER LINES
- UGP --- UNDERGROUND POWER CABLES
- UCC --- UNDERGROUND COMMS CABLES
- UWP --- UNDERGROUND WATER PIPES
- USS --- UNDERGROUND STORMWATER PIPES
- RAIL LINE
- PROPOSED OPEN DRAINS

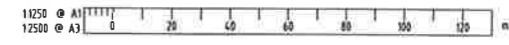
STORAGE CAPACITIES

EXISTING STORAGE		
'A' TYPE STORAGE	HOR 01	26,800 t
LOW STEEL FRAMED OPEN BULKHEAD	(01)	25,000 t
TOTAL EXISTING STORAGE		51,800 t
PROPOSED STORAGE		
1.8m INT. STEEL FRAMED OPEN BULKHEAD	(TBH 02)	20,960 t
1.8m INT. STEEL FRAMED OPEN BULKHEAD	(TBH 03)	20,960 t
1.8m INT. STEEL FRAMED OPEN BULKHEAD	(TBH 04)	20,305 t
TOTAL PROPOSED STORAGE		62,225 t
TOTAL SITE STORAGE		114,025 t

HATCHING LEGEND

	AREA OF NEW WORKS	31,300 m ²
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PRELIMINARY ISSUE
 DO NOT USE FOR CONSTRUCTION
 DATE 01.07.22



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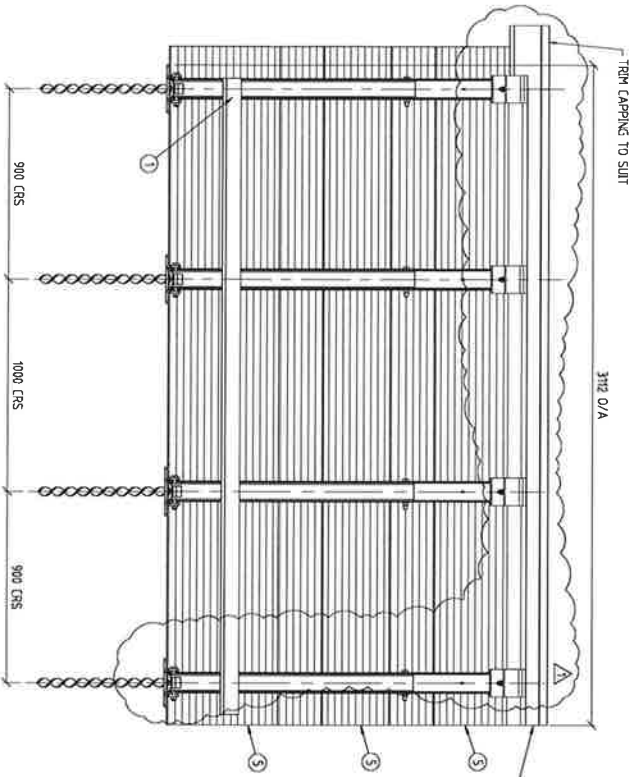
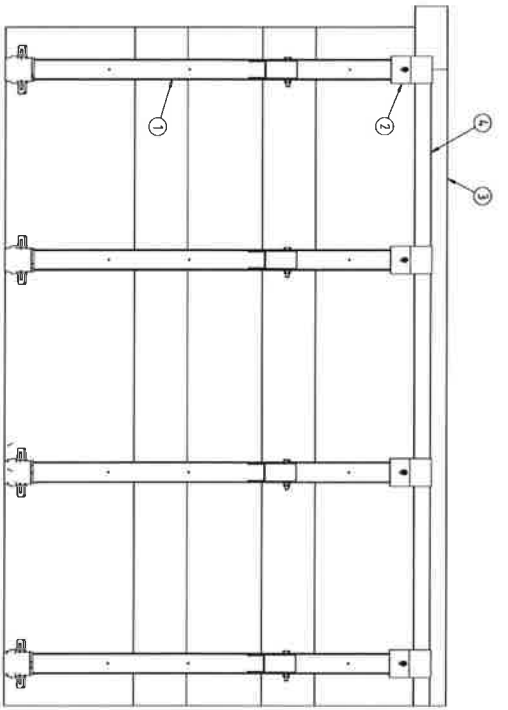


CBH GROUP
 LEVEL 6
 240 ST GEORGE'S TERRACE
 PERTH W.A. 6000
 PH (08) 9237 9600
 FAX (08) 9222 3942

REV	DATE	REVISION DESCRIPTION	BY	CHK'D	APP'D
A	30.06.22	ISSUED AS CHECK PRINT AND FOR REVIEW			

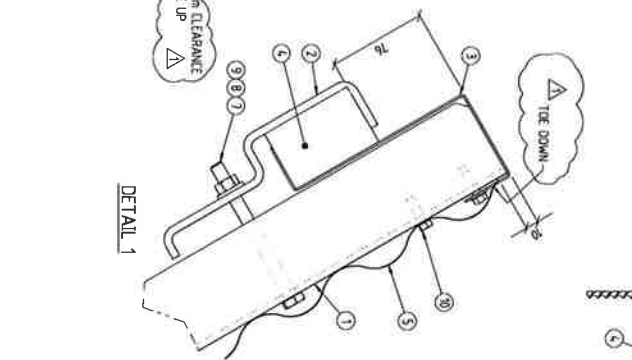
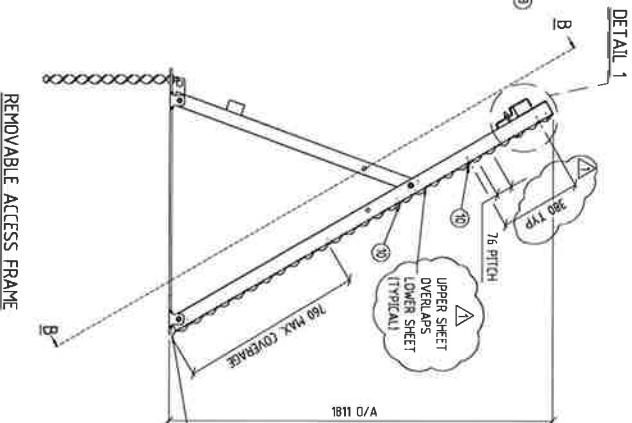
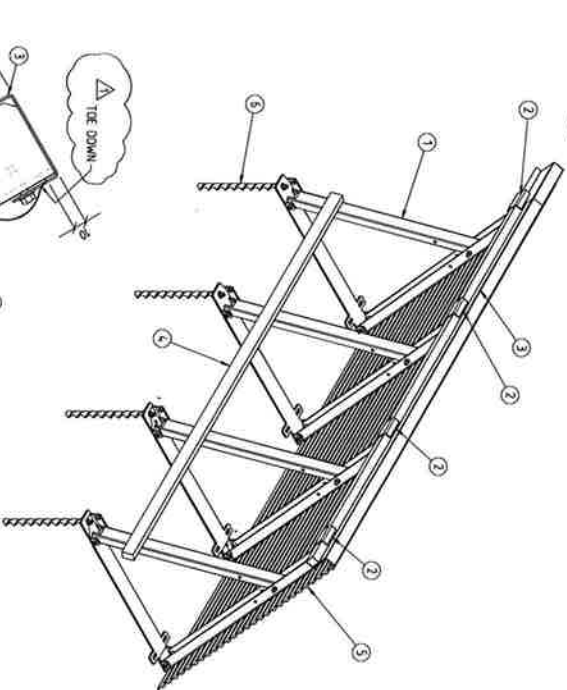
SCALE	1:1250	DRAWN	J. Bullingham	DATE	30.06.22
SHEET	A1	CHECKED			
PROJECT		DESIGNED			
CONTRACT No.		DESIGN APPR			
		PROJECT APPR			

SHACKLETON
 PRE FEASIBILITY STUDY
 2022 EMERGENCY STORAGE
 CONCEPTUAL LAYOUT No. 2
 DRG No. **514-ENG-CI-DCO-0009** SHEET **1 OF 1** REV. **A**



ITEM No	DESCRIPTION	WIDTH	LENGTH	QTY	CBH DRG OR SUPPLIER PART No	PROCESS	MASS kg	TO DETAIL	SURFACE TREATMENT
1	TYPICAL ACCESS FRAME ASSEMBLY	300	2517	4	S19-ENG-ST-ASY-0005	FITTING	36.2	N/A	N/A
2	6x12	300	3000	4	S19-ENG-ST-PR1-0012	FAB PROFILE	16	Yes	GALVANIZE
3	16x12	75	3000	2	S19-ENG-ST-PR1-0011	FAB SHEET	11.4	Yes	N/A
4	TYMBER SAWN KARIRI STRUC3 75mmx50mmx3m	75	3000	2	S19-ENG-ST-PR1-0014	FITTING	5.2	N/A	N/A
5	CUSTOM DRG ZINC ALUMINE 0.42mm BHT	600	3200	2		FITTING	1.3	No	N/A
6	SEAL-B-8-DUC	600	600	4		FITTING	0.7	No	N/A
7	M10 x 120 GALV ROD T GR8.8 (50mm THREAD M10)	4	4	4		FIELD KIT	0.0	N/A	N/A
8	M10 GALV NUT	4	4	4		FIELD KIT	0.0	N/A	N/A
9	M10 GALV FW	4	4	4		FIELD KIT	0.0	N/A	N/A
10	SCREW H4-TEX HEX M4-20x22mm WITH SEAL	28		4		FIELD KIT	0.0	No	ZP

PARTS LIST (PER UNIT)



CIVIL WORKS NOTE:

ALL OBH FRAMES SHALL BE SUPPORTED BY CEMENT STABILISED FOUNDATIONS AS PER S000-ENG-CL-S1D-0002 SECTION 'F'.

ALL TIEBS TO BE SUPPLIED WITH THE CORRECT SURFACE TREATMENT AS PER ISM - PRODUCT & FINISH COATINGS ALWAYS FOLLOW THE SCOPE OF WORKS.

GENERAL NOTES (UNLESS NOTED OTHERWISE):

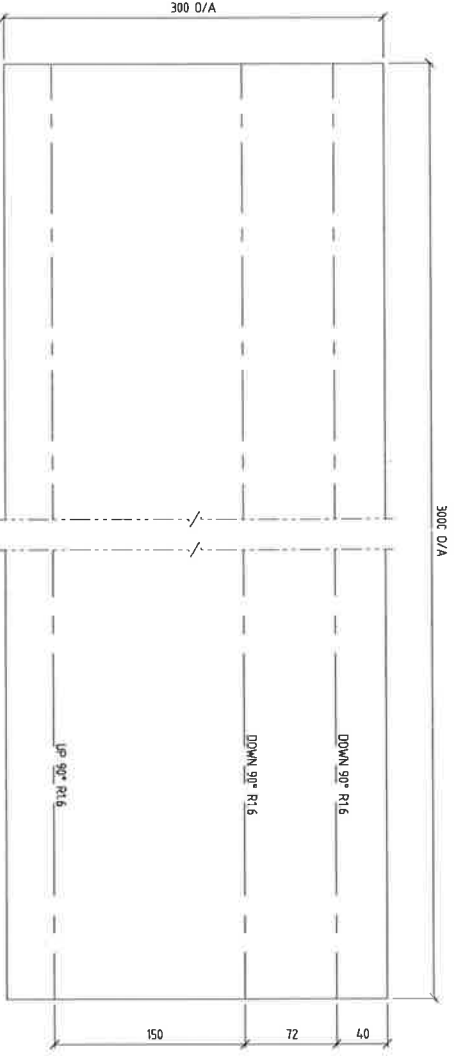
- ALL STEELWORKS, WELDING & FABRICATION TO COME FROM WITH CORRECT ASSQA LAY OFF
- REMOVE ALL BURRS & SHARP EDGES
- ASSEMBLY TO BE CONTINUOUSLY FULLY WELDED WITH MINIMUM 3mm FILLET FOR 3mm PLATE
- MIN FILLET FOR 4mm TO >3mm PLATE
- MIN FILLET FOR 20mm TO >30mm PLATE
- ALL FASTENERS TO BE ZP GR8.8/8.8
- ALL STEEL PLATE & SHEET TO BE MIN GR250 OR Q235H
- ALL STRUCTURAL STEEL TO BE IN ACCORDANCE WITH ASS397 AND OF GRADE G2775 OR EQUIV

SURFACE TREATMENT: N/A

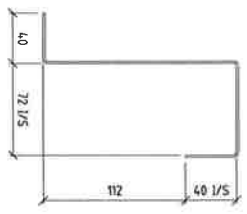
COATING SPEC: N/A

TOTAL MASS: 1873 kg

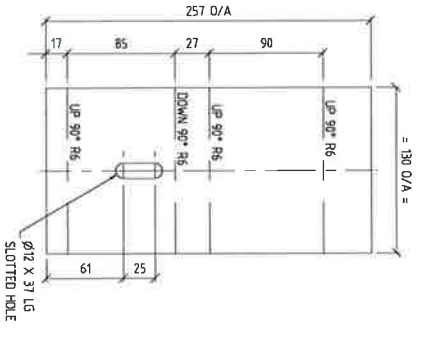
DRAWN OF 18/06/2018 OPEN BUILDHEAD FRAME TYMBER LOCK 18mm REMOVABLE ACCESS FRAME GENERAL ARRANGEMENT		CHECKED BY 20/06/2018 REVISIONS: 1 23/07/2018 S19-CRATED QUILTS & TYPICAL ACCESS FRAME 2 12/08/2018 REVISION TO THE DRAWING		DATE 18/06/2018 DATE 23/07/2018 DATE 12/08/2018	
DESIGNED BY 20/06/2018	ENGINEER 20/06/2018	APPROVED BY 20/06/2018	DATE 18/06/2018	BY 18/06/2018	DATE 18/06/2018
CBH GROUP HEAD OFFICE 30 DASH STREET WEST BERTH WA 6055 PH (08) 9231 8600 FAX (08) 9232 3942 500 WEST SCALD HEAD RD BUNDAUNG		S19-ENG-ST-ASY-0003 TYPICAL SHEET 2 OF 2		TOTAL MASS 1873 kg	



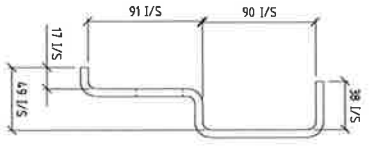
DEVELOPMENT OF S119-ENG-ST-PRT-0011
16PL



S119-ENG-ST-PRT-0011
16PL



DEVELOPMENT OF S119-ENG-ST-PRT-0012
6PL



S119-ENG-ST-PRT-0012
6PL

FOR THE USE OF THE CLIENT AND HIS CONTRACTOR IN CONNECTION WITH THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE PROJECT.



CBH GROUP HEAD OFFICE
30 DE LA STREET, WEST PARK WA 6015
PH (08) 9231 9500 FAX (08) 9222 9542

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REV	DATE	REVISIONS

REV	DATE	REVISIONS

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REV	DATE	REVISIONS

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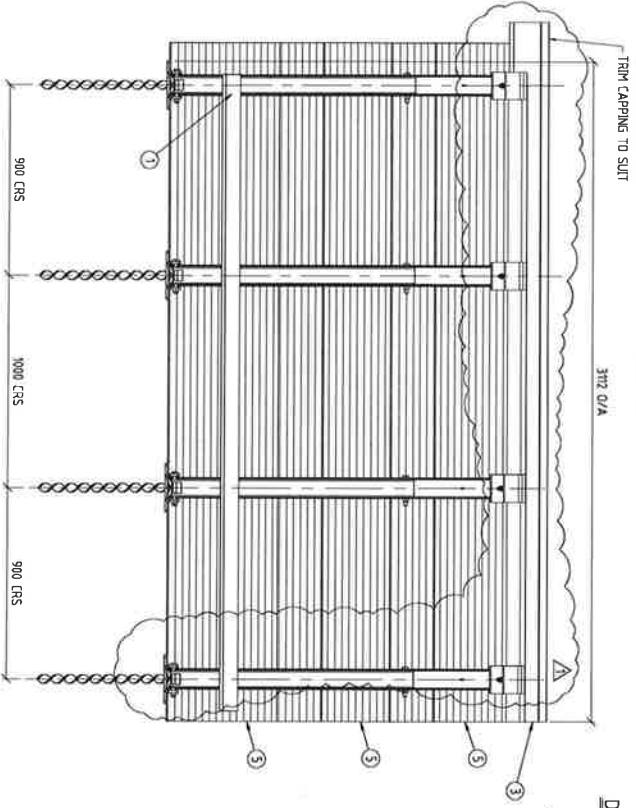
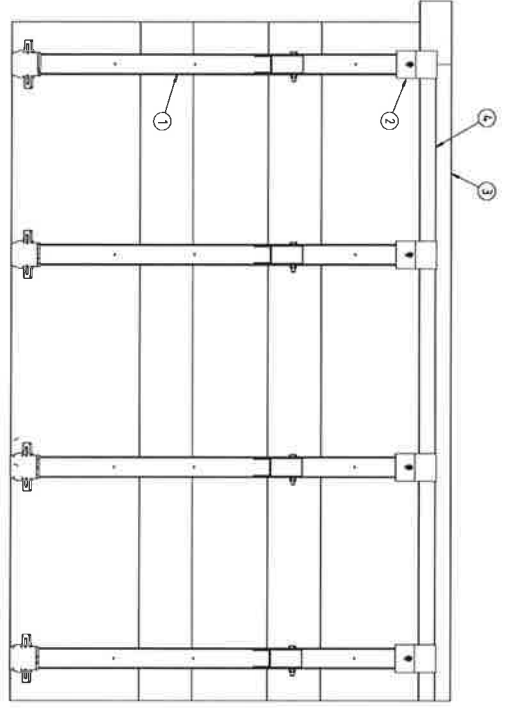
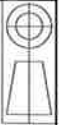
REV	DATE	REVISIONS

REV	DATE	REVISIONS

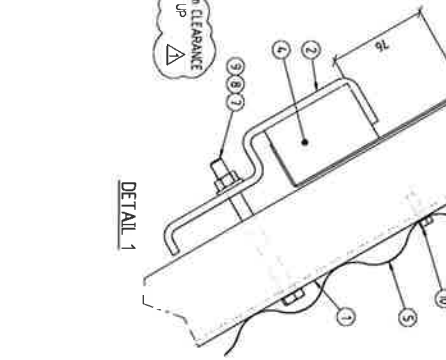
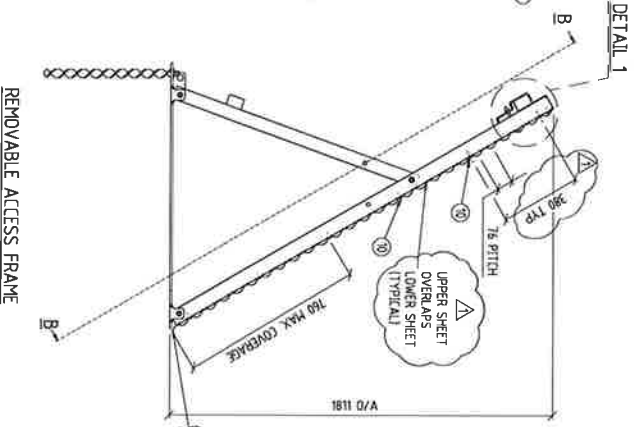
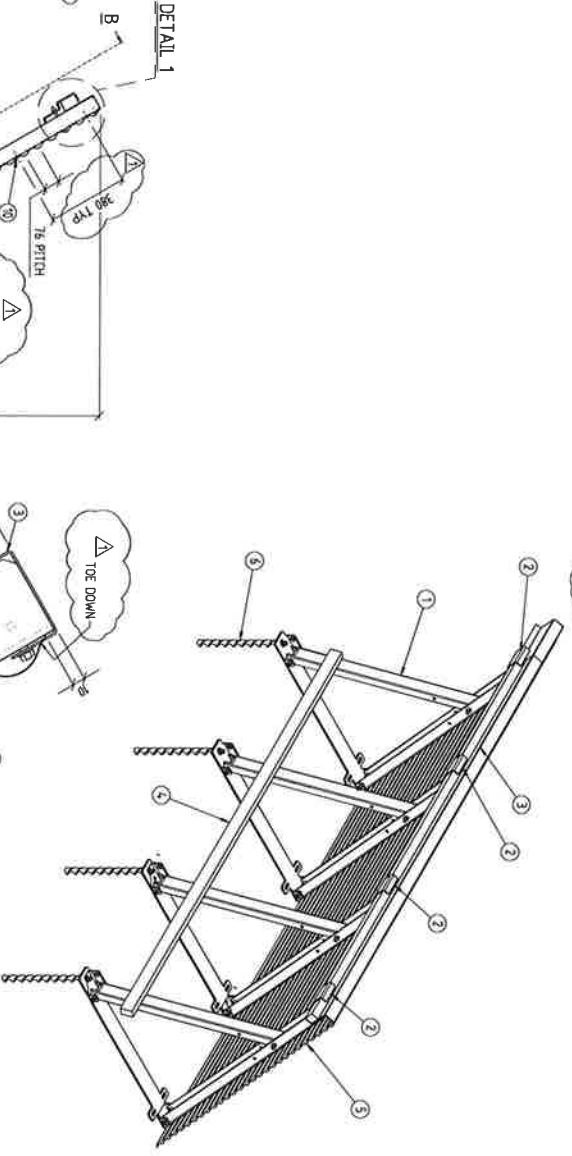
REV	DATE	REVISIONS

REV	DATE	REVISIONS

REV	DATE	REVISIONS



ITEM No	DESCRIPTION	WIDTH	LENGTH	QTY	IGH. DRG OR SUPPLIER PART No	PROCESS	MASS kg	TO DETAIL	SURFACE TREATMENT
1	TYPICAL ACCESS FRAME ASSEMBLY	130	2511	4	S19-ENG-ST-ASY-0005	FITTING	36.2	Yes	N/A
2	6PL	300	3000	2	S19-ENG-ST-PRT-1-0012	FAB PROFILE	1.6	Yes	GALVANIZE
3	18PL	75	3200	2	S19-ENG-ST-PRT-1-0011	FAB SHEET	11.4	Yes	N/A
4	TIMBER SAWN KARRIL STRIPE 3 75mmx50mmx1m	75	3200	2	S19-ENG-ST-PRT-1-0014	FITTING	6.2	No	N/A
5	CUSTOM DRG ZINC ALUPLATE 0.42mm BMT	3200	3	3		FITTING	1.3	No	N/A
6	SEALED-B-510C	610	4	4	SBR/MAFX ANCHOR SEALED-B-510C	FITTING	1.6	No	N/A
7	M10 x 170 GALV BOLT GR8 8 150mm THREAD Pknl			4		FIELD KIT	0.1	No	N/A
8	M10 GALV NUT			4		FIELD KIT	0.0	No	N/A
9	M10 GALV FW			4		FIELD KIT	0.0	No	N/A
10	SCREW HD-TEK HEX 14-20x22mm WITH SEAL			4		FIELD KIT	0.0	No	ZP



CIVIL WORKS NOTE:
 ALL OBH FRAMES SHALL BE SUPPORTED BY CEMENT STABILISED FOUNDATIONS AS PER S000-ENG-CL-STD-0002 SECTION 'F'
 ALL ITEMS TO BE SUPPLIED WITH THE CORRECT SURFACE TREATMENT AS PER 15-1 PRODUCT & MAIN DIMENSIONS. WHERE THE SCOPE OF WORKS SPECIFICS THE COATING SPEC ALWAYS FOLLOW THE SCOPE OF WORKS
GENERAL NOTES (UNLESS NOTED OTHERWISE):
 1. ALL STEELWORKS, WELDING & FABRICATION TO CONFORM WITH CURRENT ASS554 (A1) SP
 2. REMOVE ALL BURRS & SHARP EDGES
 3. ASSEMBLY TO BE CONTINUOUSLY FULLY WELDED WITH MINIMUM 3mm FILLET FOR 3mm PLATE
 6mm FILLET FOR 4mm TO 42mm PLATE
 10mm FILLET FOR 20mm TO 42mm PLATE
 4. ALL FASTENERS TO BE ZP GR58/818
 5. ALL STEEL PLATE & SHEET TO BE MIN GR 250 OR C258
 6. ALL STRUCTURAL STEEL TO BE IN ACCORDANCE WITH ASS397 AND OF GRADE C22715 OR EQUIV
 7. ALL GALVANISED STEEL TO BE IN ACCORDANCE WITH SURFACE TREATMENT: N/A
 COATING SPEC: N/A
 TOTAL MASS: 1813 kg

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CBH GROUP

CBH GROUP HEAD OFFICE
 30 DEWIL STREET, WEST PERTH, W.A. 6150
 PH (08) 9733 8600 FAX (08) 9732 3942
 080 801 3444 FROM THIS DRAWING

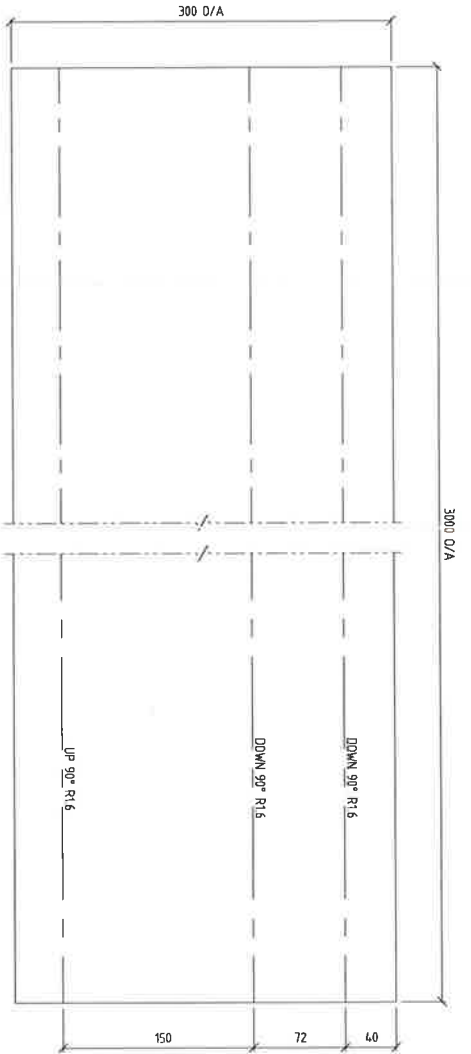
REV	DATE	BY	CHK	REVISIONS
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2	17/02/2018	SM	SM	ISSUE FOR BIDDING

REF. Dwg No. REVISIONS DATE

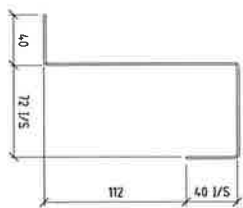
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SCALE: 1:100

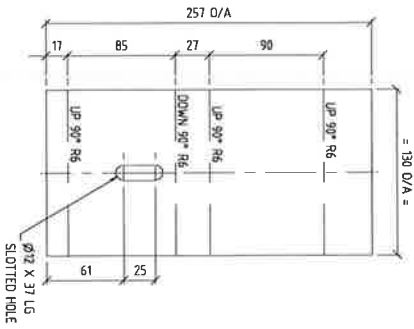
PROJECT: S19-ENG-ST-ASY-0003 1 OF 2



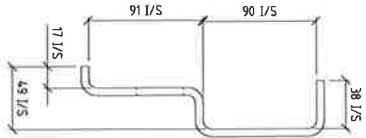
DEVELOPMENT OF S119-ENG-ST-PRT-0011
16PL



S119-ENG-ST-PRT-0011
16PL



DEVELOPMENT OF S119-ENG-ST-PRT-0012
6PL



S119-ENG-ST-PRT-0012
6PL

CONTRACT NO. 1401-14
DRAWING NO. S119-ENG-ST-PRT-0011
PROJECT NO. S119-ENG-ST-AS-Y-0003
DATE: 10/20/2014
BY: [Signature]
CHECKED: [Signature]
APPROVED: [Signature]



CBH GROUP HEAD OFFICE
36 DELIA STREET, WEST POINT, S.A. 0405
PH: 0081 9231 9600 FAX: 0081 9232 3942
2D MET SCALE FROM THIS DRAWING

REF. NO.	REFERENCE DRAWING TITLE	REV.	DATE

REV.	DATE	REVISIONS
1	12/12/2014	ISSUE FOR CONSTRUCTION
2	10/20/2014	ISSUE FOR CONSTRUCTION

REV.	DATE	REVISIONS

REV.	DATE	REVISIONS

REV.	DATE	REVISIONS

REV.	DATE	REVISIONS

REV.	DATE	REVISIONS

REV.	DATE	REVISIONS

REV.	DATE	REVISIONS

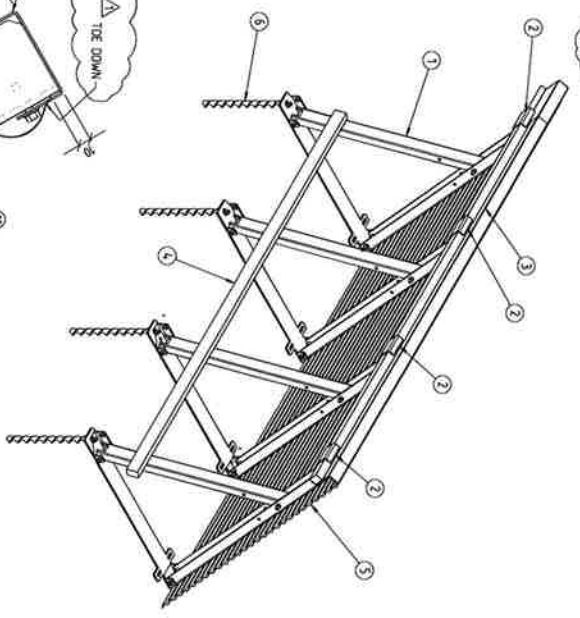
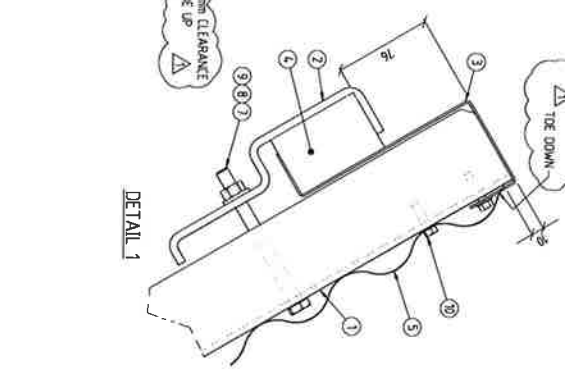
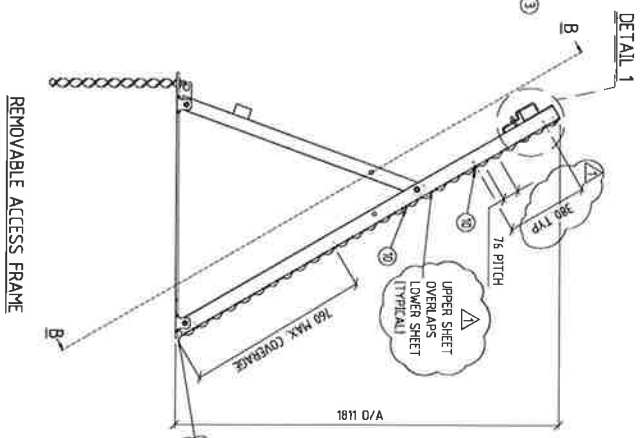
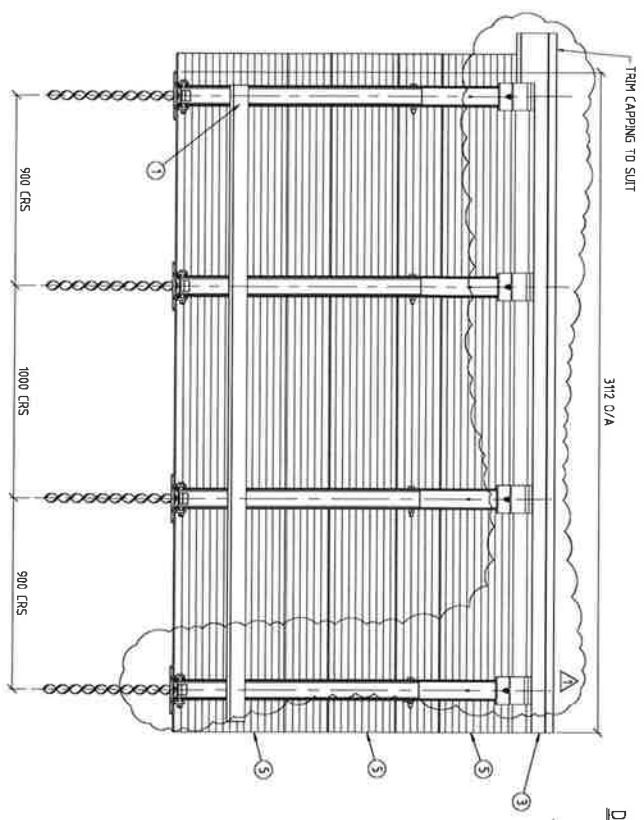
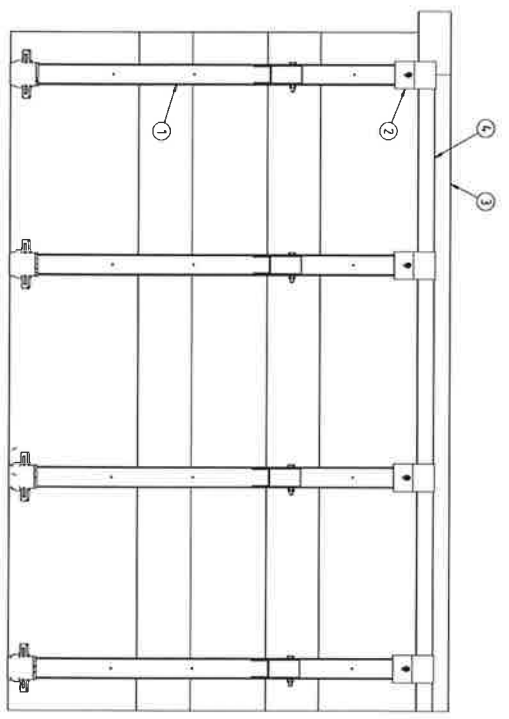
REV.	DATE	REVISIONS

OPEN BULKHEAD FRAME
TIMBER LOCK 16m
REMOVABLE ACCESS FRAME
PART DETAILS

REV.	DATE	REVISIONS

REV.	DATE	REVISIONS

VARIOUS
TYPICAL
S119-ENG-ST-AS-Y-0003
SCALE: 2 OF 2
REV: 1



PARTS LIST (PER UNIT)

ITEM No	DESCRIPTION	WIDTH	LENGTH	QTY	IBH DRG OR SUPPLIER PART No	PROCESS	MASS kg	TO DETAIL	SURFACE TREATMENT
1	TYPICAL ACCESS FRAME ASSEMBLY			4	S19-ENG-ST-ASY-0003	FITTING	36.2	Yes	N/A
2	6RL	130	251/A	4	S19-ENG-ST-PR1-0012	FAB PROFILE	1.6	Yes	GALVANIZE
3	159L	300	3000	2	S19-ENG-ST-PR1-0011	FAB SHEET	11.4	Yes	N/A
4	TIMBER SAWM KARRI STRUC 3 75mmx50mmx3m	75	3000	2	S19-ENG-ST-PR1-0014	FITTING	6.2	No	N/A
5	CUSTOM DRG ZINC ALPAC 0.42mm BHT		3200	3		FITTING	1.3	No	N/A
6	SFC-B-50C		610	4	SPRATIX ANCHOR SFC-B-50C	FITTING	1.6	No	N/A
7	M10 x 120 GALV BOLT GR8 150mm THREAD MIN)			4		FIELD KIT	0.1	No	N/A
8	M10 GALV NUT			4		FIELD KIT	0.0	No	N/A
9	M10 GALV FW			4		FIELD KIT	0.0	No	N/A
10	SCREW HE-TEK HEX 14-20x22mm WITH SEAL			28		FIELD KIT	0.0	No	ZP

CONCRETE WORKS NOTE:
 ALL IBH FRAMES SHALL BE SUPPORTED BY CEMENT STABILISED FOUNDATIONS AS PER S000-ENG-C-STD-0002 SECTION 'F'

- 1. ALL STEELWORKS WELDING & FABRICATION TO CONFORM WITH CURRENT ASSYS4 (A1) SP
- 2. REMOVE ALL BURRS & SHARP EDGES
- 3. ASSEMBLY TO BE CONTINUOUS FULLY WELDED WITH MINIMUM 3mm FILLER FOR 3mm PLATE
- 4. ALL FASTENERS TO BE ZP GR8/8/7/8
- 5. ALL STEEL PLATE & SHEET TO BE MIN GR250 OR Q235H
- 6. ALL STRUCTURAL STEEL TO BE IN ACCORDANCE WITH ASSYS7 AND/OR GRADE Q235H OR EQ470
- 7. ALL GALVANISED STEEL TO BE IN ACCORDANCE WITH ASSYS7 AND/OR GRADE Q235H OR EQ470

COATING SPEC:	N/A
TOTAL MASS:	1813 kg

CBH GROUP HEAD OFFICE
 30 DE-LA STREET, WEST PERTH W.A 6150
 PH (08) 9231 9600 FAX (08) 9232 2942

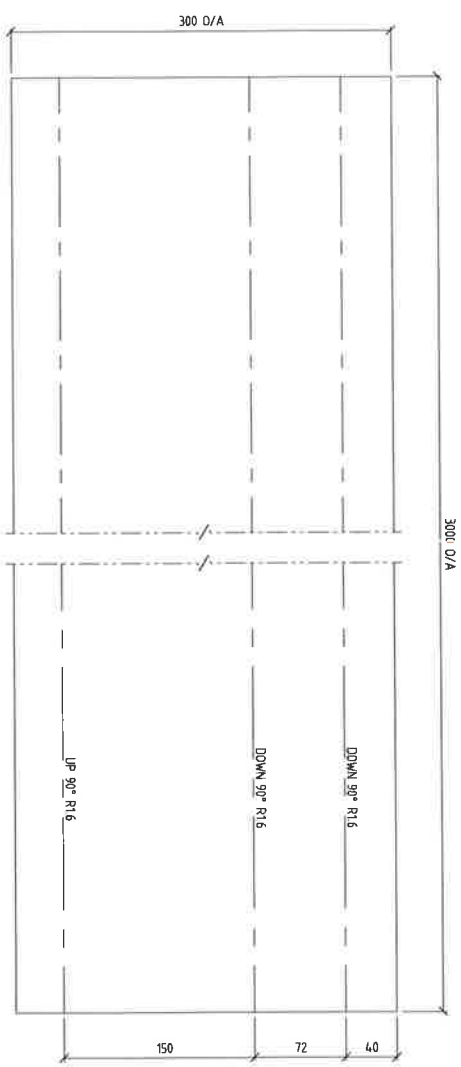
CBH GROUP

REV	DATE	REVISIONS	BY	CHK	APP	DATE	REVISIONS
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2	10/02/2019	ISSUE FOR TENDER					
3	10/02/2019	ISSUE FOR TENDER					

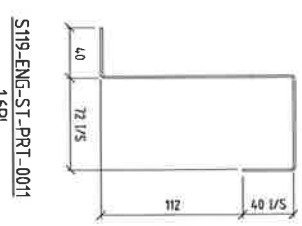
DATE	11/09/2018	DRAWN	DR	11/09/2018
CHECKED	11/09/2018	ENGINEER	11/09/2018	

OPEN BULKHEAD FRAME
TIMBER LOCK 150mm
REMOVABLE ACCESS FRAME
GENERAL ARRANGEMENT

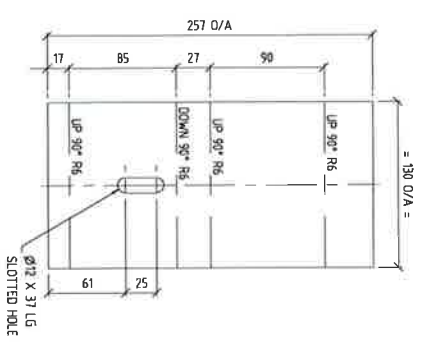
PROJECT	S19-ENG-ST-ASY-0003	SHEET	1 OF 2
TITLE	TYPICAL	NO	1



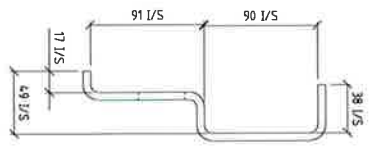
DEVELOPMENT OF S119-ENG-ST-PRT-0011
16PL



S119-ENG-ST-PRT-0011
16PL

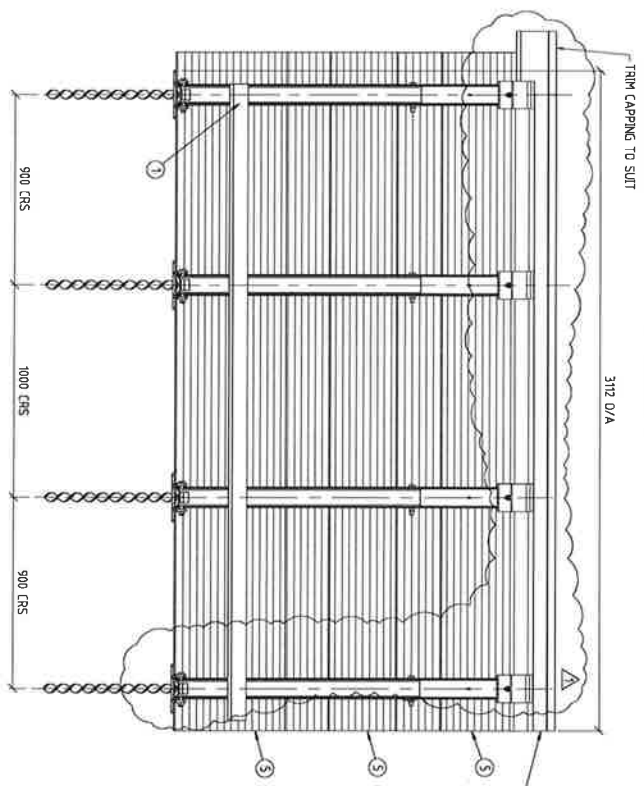
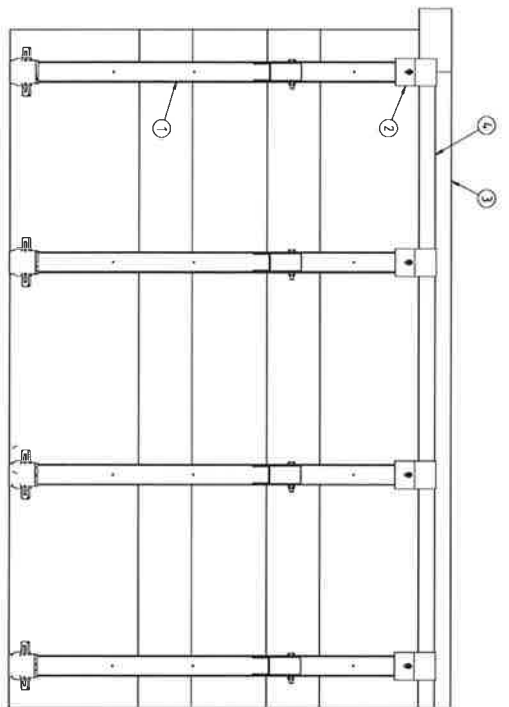
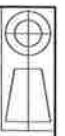


DEVELOPMENT OF S119-ENG-ST-PRT-0012
6PL



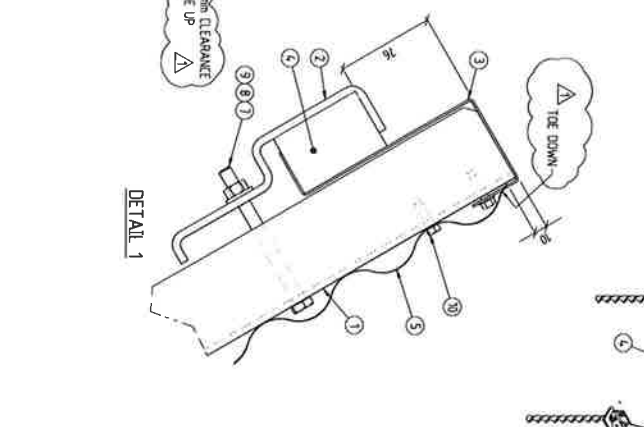
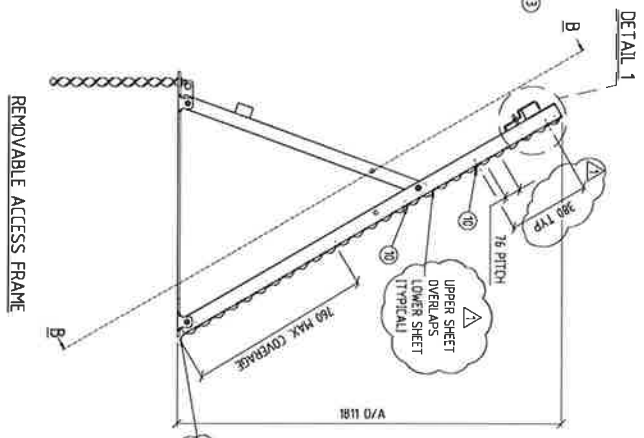
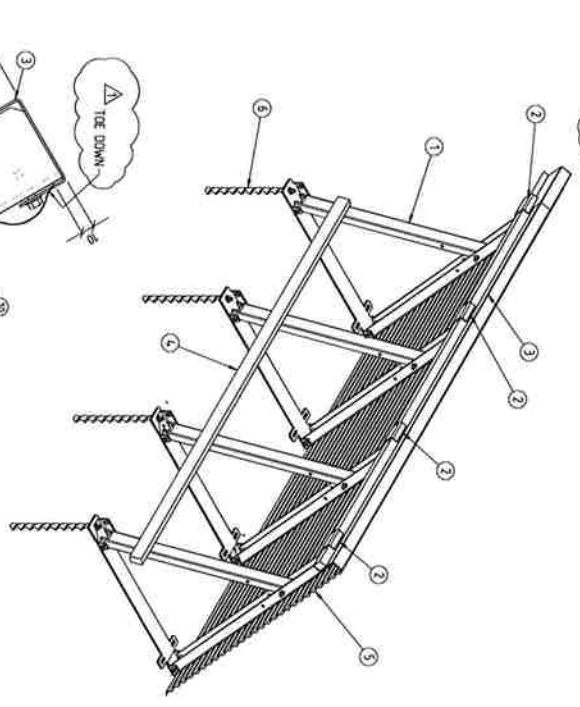
S119-ENG-ST-PRT-0012
6PL

GENERAL FOR THE DESIGN OF WORKING PARTS OF STRUCTURAL STEELWORK AND CONNECTIONS TO BE USED IN CONSTRUCTION OF STEEL STRUCTURES IN ACCORDANCE WITH EUROPEAN STANDARD EN 1090-1 AND EN 1090-2		CBH GROUP 20 BELLA STREET WEST PERTH WA 6005 PH (08) 9371 9000 FAX (08) 9371 9002 WWW.CBHGROUP.COM.AU		CBH GROUP HEAD OFFICE 20 BELLA STREET WEST PERTH WA 6005 PH (08) 9371 9000 FAX (08) 9371 9002		DO NOT SCALE FROM THIS DRAWING		REF. NO. No.		REVISIONS		DATE		BY / CHK / APP / DATE		REVISIONS		DRAWN BY / CHK / APP / DATE		CHECKED BY / CHK / APP / DATE		BRAMA BY / 01/09/2008		STANDARD TITLE OPEN BULKHEAD FRAME TIMBER LOCK 180° REMOVABLE ACCESS FRAME PART DETAILS		SHEET VARIOUS TYPICAL		SHEET NO. S119-ENG-ST-ASY-0003		SHEET 2 OF 2		DATE 1	
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PARTS LIST (PER UNIT)

ITEM No	DESCRIPTION	WIDTH	LENGTH	QTY	CBH DRG OR SUPPLIER PART No	PROCESS	MASS kg	TO DETAIL	SURFACE TREATMENT
1	TYPICAL ACCESS FRAME ASSEMBLY	130	251	4	S119-ENG-ST-ASY-0003	FITTING	36.2	Yes	N/A
2	UPPER SHEET OVERLAPS	300	3000	4	S119-ENG-ST-PR1-0012	FAB SHEET	1.6	Yes	GALVANIZE
3	LOWER SHEET OVERLAPS	75	3000	2	S119-ENG-ST-PR1-0011	FITTING	11.4	Yes	N/A
4	CUSTOM ORG ZINC ALUMINE 0.42mm BRIT	3200	3200	2	S119-ENG-ST-PR1-0014	FITTING	6.2	No	N/A
5	SFC4-B-600C	610	610	4	S119-ENG-ST-PR1-0016	FITTING	1.3	No	N/A
6	M10 x 120 GALV BOLT GR8 B 15mm THREAD MINI	4	4	4	S119-ENG-ST-PR1-0017	FIELD KIT	0.1	No	N/A
7	M10 GALV NUT	4	4	4	S119-ENG-ST-PR1-0018	FIELD KIT	0.0	No	N/A
8	M10 GALV W/OT	4	4	4	S119-ENG-ST-PR1-0019	FIELD KIT	0.0	No	N/A
9	SCREW HE-TEX HEX 14-20x22mm WITH SEAL	28	28	4	S119-ENG-ST-PR1-0020	FIELD KIT	0.0	No	ZP



CIVIL WORKS NOTE:
 ALL OBH FRAMES SHALL BE SUPPORTED BY CEMENT STABILISED FOUNDATIONS AS PER S000-ENG-C-ST1D-0002 SECTION 'F'
 ALL ITEMS TO BE SUPPLIED WITH THE CORRECT SURFACE TREATMENT AS PER IS4 - PROJECT & MAINT COATINGS. WHERE THE SCOPE OF WORKS SPECIFICS THE COATING SPEC ALWAYS FOLLOW THE SCOPE OF WORKS

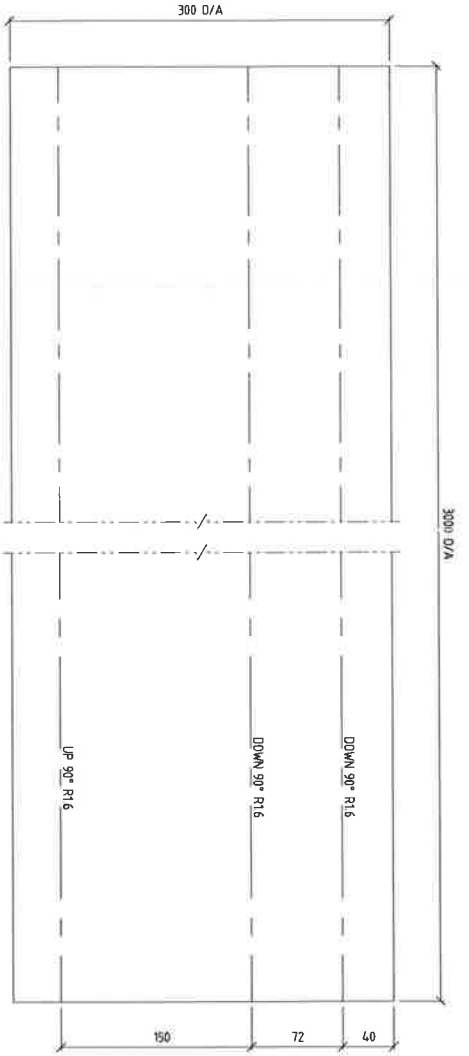
GENERAL NOTES (UNLESS NOTED OTHERWISE):
 1. ALL STEELWORKS, WELDING & FABRICATION TO CONFORM WITH CURRENT ASSISA CAT SP
 2. REMOVE ALL BURRS & SHARP EDGES
 3. ASSEMBLY TO BE CONTINUOUS FULLY WELDED WITH MINIMUM 3mm RILET FOR 3mm PLATE
 4. ALL FASTENERS TO BE ZP GR8/B7S
 5. ALL STRUCTURAL STEEL TO BE IN ACCORDANCE WITH ASS97 AND OF GRADE G22215 OR EQUIV
 6. ALL GALVANISED STEEL TO BE IN ACCORDANCE WITH SURFACE TREATMENT: N/A
 COATING SPEC: N/A
 TOTAL MASS: 181.3 kg

CBH GROUP HEAD OFFICE
 30 DE LA STEELE, WEST PERTH WA 6005
 PH (08) 9237 9600 FAX (08) 9232 3945
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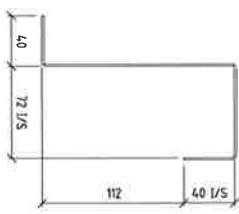
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 CHECKED BY: []
 DATE: []

PROJECT: TYPICAL
 SHEET: S119-ENG-ST-ASY-0003
 OF 2

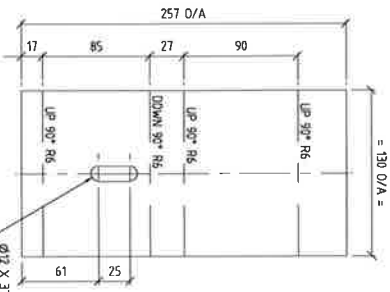
CBH GROUP
 GROUPING
 PROJECTS
 REF: []
 DATE: []



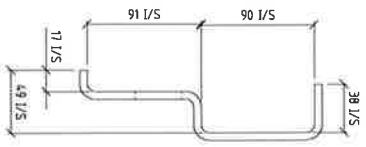
DEVELOPMENT OF S119-ENG-ST-PRT-0011
1:6PL



S119-ENG-ST-PRT-0011
1:6PL



DEVELOPMENT OF S119-ENG-ST-PRT-0012
6PL



S119-ENG-ST-PRT-0012
6PL

CONTRACTOR: M. AND N. ARCHITECTS
 PROJECT: TYPICAL
 DRAWING NO: S119-ENG-ST-ASY-0003
 SHEET NO: 2 OF 2



CBH GROUP HEAD OFFICE
 20 DELIA STREET, WEST PAPERVA 4 6005
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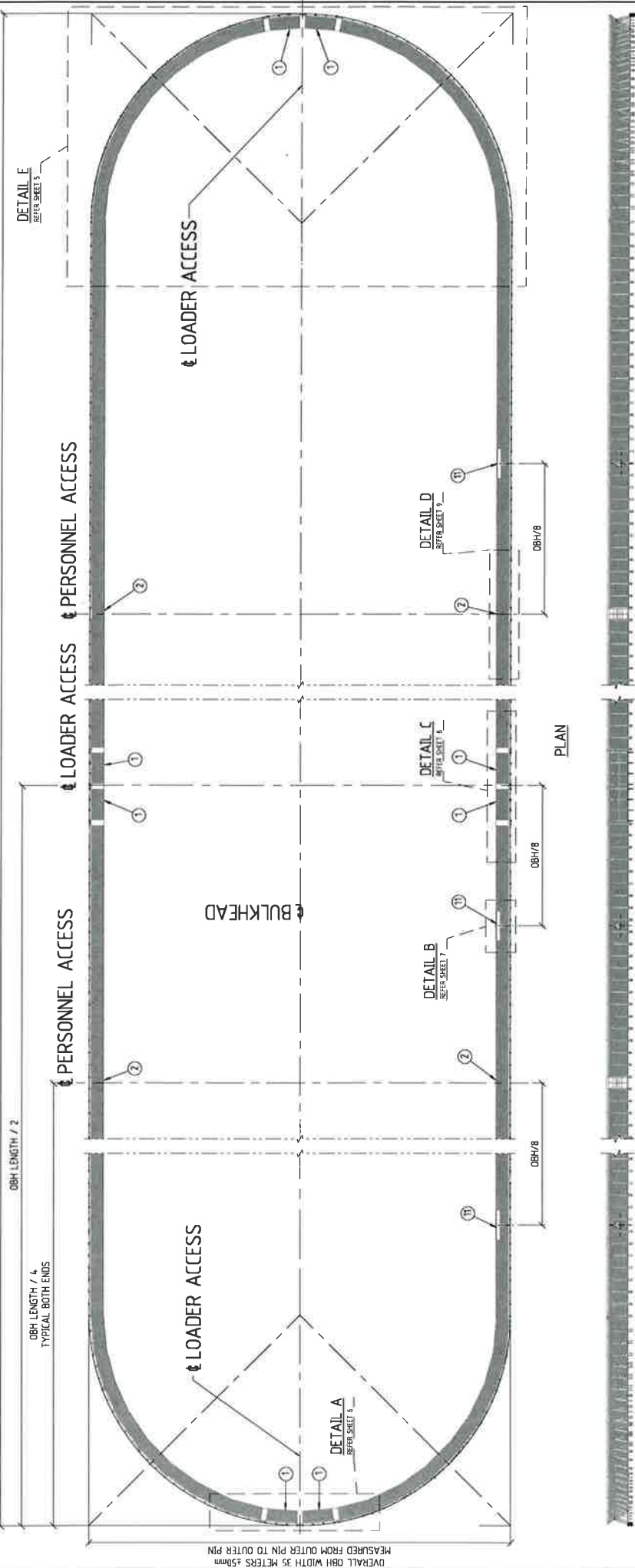
REV	DATE	DESCRIPTION	BY	CHECK	DATE	REVISIONS	BY	CHECK	DATE	REVISIONS	BY	CHECK	DATE	REVISIONS

ITEM No	DESCRIPTION	WIDTH	LENGTH	QTY	CBH OR SUPPLIER PART No	PROCESS	SAP Code	MASS kg	TO DETAIL
1	FRONT END LOADER ACCESS GATE				REFER NOTE S119-ENG-ST-ASY-0034	FIELD FIT	N/A	184.4	Yes
2	PERSONNEL ACCESS DOOR				REFER NOTE S119-ENG-ST-ASY-0007	FITTING	N/A	17.1	Yes
3	STRAIGHT PIN STRUT ASSEMBLY				REFER NOTE S119-ENG-ST-ASY-0004	FITTING	N/A	38.4	Yes
4	SPIRAL PIN STRUT ASSEMBLY				REFER NOTE S119-ENG-ST-ASY-0005	FITTING	N/A	38.2	Yes
5	CUSTOM DRB ZINC ALUME 0.42mm BHT 550 MPa 4M (YIELD)	762	3200		REFER NOTE S119-ENG-ST-PR1-0070	FITTING	DREQ	13	No
6	IDIA 20 STRAIGHT PIN ANCHOR		420		REFER NOTE S-119-A0000	FITTING	DREQ	11	Yes
7	SPIRAL PIN ANCHOR		300		REFER NOTE S119-ENG-ST-DER-0052	FITTING	DREQ	0.8	Yes
8	Z CAPPING 1.6L PGI		300		REFER NOTE S119-ENG-ST-PR1-0011	FAB SHEET	1008594	11.4	Yes
9	TIMBER SAWN KARRI STRUC3 75mmx50mmx3m		75	3000	REFER NOTE S119-ENG-ST-PR1-0014	FITTING	108594	6.2	No
10	TARP CLAMP GPL		130	257	REFER NOTE S119-ENG-ST-PR1-0012	FAB PROFILE	107901	1.6	Yes
11	FUMIGATION TEE PIECE		450	2050	REFER NOTE S119-ENG-ME-DER-0001	FITTING	N/A	6.9	Yes
12	RUBBER STRIP 450mm WIDE 8mm THICK				REFER NOTE S119-ENG-ST-PR1-0048	FIELD KIT	DREQ	0.1	No
13	M10 x 120 GALV BOLT GRB B (50mm THREAD 4M)				REFER NOTE	FIELD KIT	DREQ	0.0	No
14	M10 GALV NUT				REFER NOTE	FIELD KIT	DREQ	0.0	No
15	M10 GALV FW				REFER NOTE	FIELD KIT	DREQ	0.0	No
16	METAL TEK SCREW HEX HEAD 14g-20x42mm CLASS 4 WITH SEAL				REFER NOTE	FIELD KIT	DREQ	0.0	No
17	METAL TEK SCREW HEX HEAD 14g-20x45mm CLASS 4 WITH SEAL				REFER NOTE	FIELD KIT	DREQ	0.0	No
18	INOXALAST LTM 151				REFER NOTE	FIELD KIT	DREQ	0.0	No
19	BOSTIK SEAL AND FLEX 1				REFER NOTE	FIELD KIT	DREQ	0.0	No

- INSTALLATION NOTES:**
- OBH LENGTH AND WIDTH DIMENSIONS ARE SPECIFIED FROM REAR PIN TO THE OPPOSITE REAR PIN. REFER PROJECT SPECIFIC SITE LAYOUT DRAWING FOR DIMENSIONS.
 - TOLERANCE FOR OVERALL OBH WIDTH AND LENGTH ARE +/- 50MM. TOLERANCE FOR FRAME SPACING +/- 10mm.
 - NOTE DIFFERENT ANCHORING DETAILS FOR DOOR/GATES AND FRAMES EITHER SIDE OF BULKHEAD OPENINGS. REFER ANCHORING DETAILS ON SHEETS 2 AND 3.
 - NOTE ADDITIONAL Z-CAPPING, WOOD AND CLADDING TRIMMING REQUIRED AT GATE JOINS. REFER SHEETS 6 AND 8 FOR DETAILS.
 - TYPICAL CLADDING OVERLAP IS 200mm, CENTERED OVER THE CENTERLINE OF THE STRUT, FOR ALL JOINS EXCEPT AT GATE AND DOOR JOINS. REFER SHEETS 6 - 9.
 - ALL Z-CAPPING MUST BE ALIGNED AS ACCURATELY AS POSSIBLE. ANY MISALIGNMENT IN Z-CAPPING WILL TEAR THE OBH TARP. REFER NOTES ON SHEETS 6, 8 AND 9 FOR TOLERANCES.
 - FOUR PERSONNEL ACCESS DOORS TO BE INSTALLED AS SHOWN. TWO INSTALLED EACH SIDE AT MIDPOINTS BETWEEN END OF OBH AND CENTRE BULKHEAD OPENING.
 - THREE FUMIGATION TEE PIECES TO BE INSTALLED ON SAME SIDE AS ELECTRICAL CONNECTION. REFER SHEETS 1 AND 7 FOR INSTALLATION DETAILS. REFER CBH DRAWING STRUC-ME-REF-000 FOR WINDOR DRAWING OF TEE PIECE.
 - DRAWING DEPICTS TYPICAL OBH SIZE OF 35M WIDE BY 3001 LONG AND ASSOCIATED STANDARDISED REQUIRED QUANTITIES OF FUMIGATION TEES, PERSONAL ACCESS DOORS AND FRONT END LOADER ACCESS GATES. SITE SPECIFIC OBH REQUIREMENTS SHALL BE CONFIRMED WITH THE NOMINATED CBH REPRESENTATIVE PRIOR TO CONSTRUCTION.
 - BULKHEAD CONTAINS ARE INTENDED TO BE FUMIGATED IN A SEALED ENVIRONMENT BY USE OF WALL CANWICON AND OVER STACK TARPS - THE CONTRACTOR SHALL MINIMISE ANY MEANS WHICH COULD DETRIMENTALLY AFFECT THE SEALING CAPABILITY, SUCH AS SHARP EDGES THAT COULD CUT TARP.

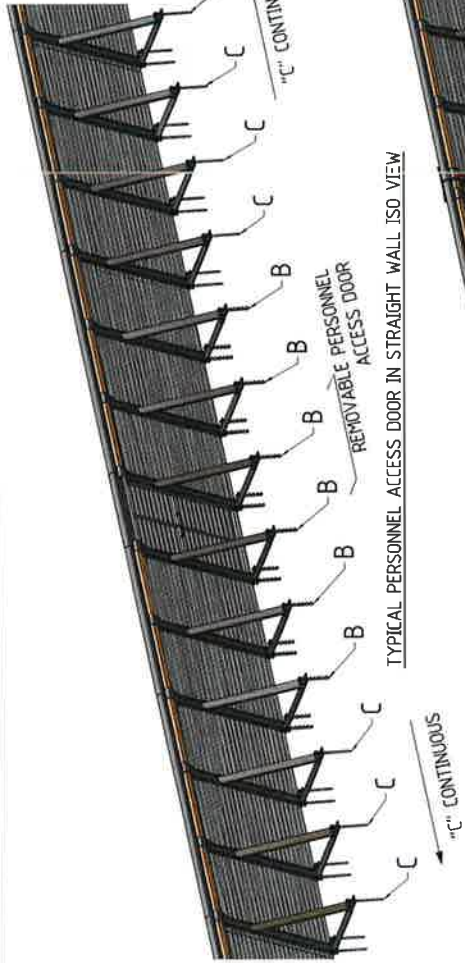
** QTY NOTE: TO CALCULATE EXACT ORDER QUANTITIES. REFER TO THE 'CBH OBH PROCUREMENT CALCULATOR' - S119-ENG-ST-CAL-0001

REFER PROJECT SPECIFIC SITE LAYOUT DRAWING FOR TOTAL OBH LENGTH MEASURED FROM OUTER PIN TO OUTER PIN +/-50mm

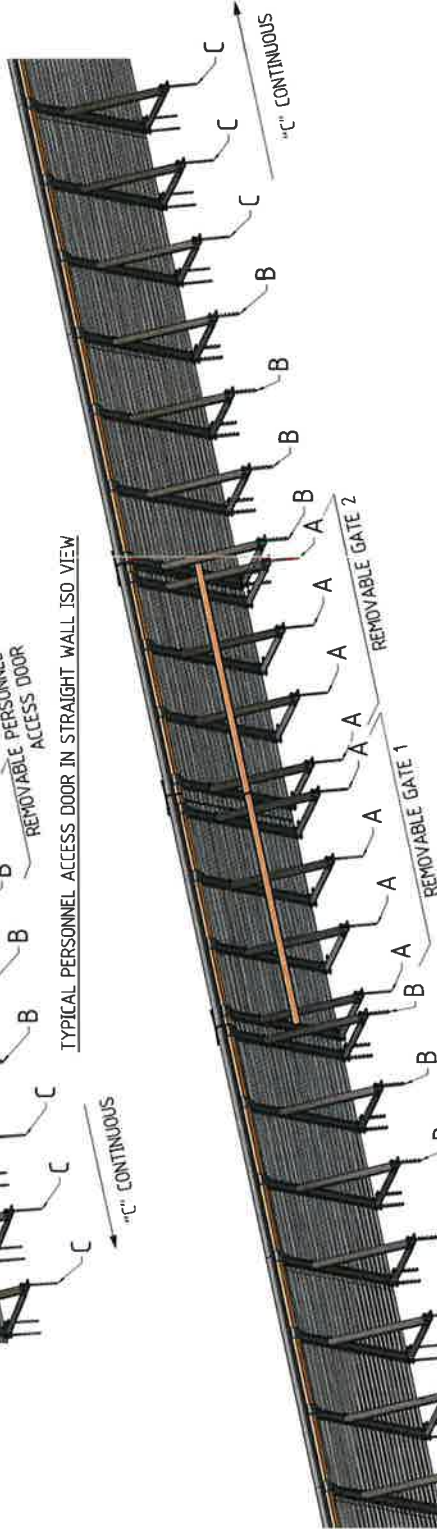


S119-ENG-ST-DGA-0003

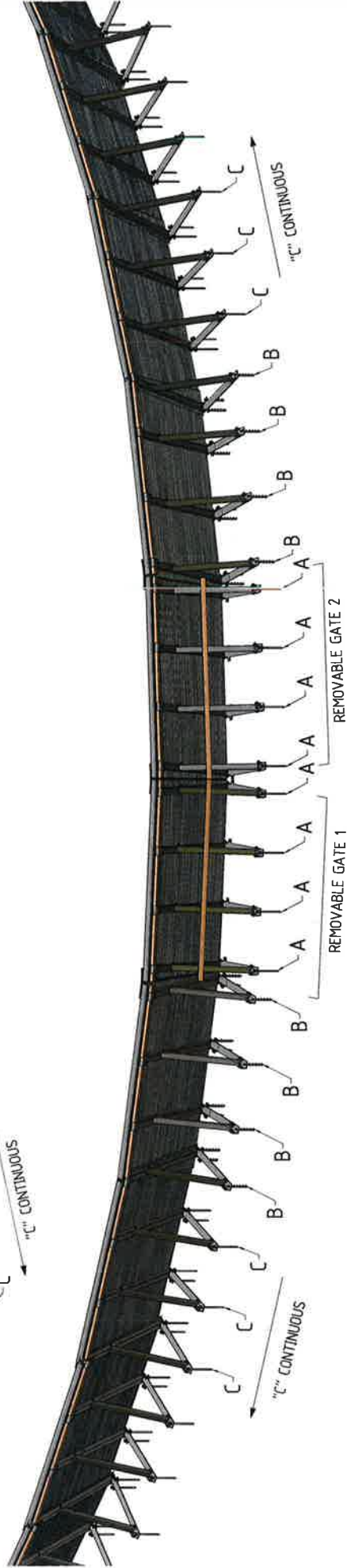
COMPANY CBH GROUP 1800 9237 9800 FAX 1800 9232 3942 PH 1800 9237 9800 FAX 1800 9232 3942 DO NOT SCALE FROM THIS DRAWING	REF PROJ No REFERENCE DRAWING TITLE REV / DATE	DRAWN SCA 30/06/2020 CHECKED LS 30/06/2020 ENGINEER BC 11/06/2020 APPROVED BY 11/06/2020	PROJECT TITLE 18m OPEN BULK HEAD GENERAL ARRANGEMENT OVERALL LAYOUT	SHEET VARIOUS STANDARD S119-ENG-ST-DGA-0003	DRAWN BY SCA	CHECKED BY LS	ENGINEER BY BC	APPROVED BY 11/06/2020	SCALE 1 OF 9
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TYPICAL PERSONNEL ACCESS DOOR IN STRAIGHT WALL ISO VIEW



TYPICAL FRONT END LOADER ACCESS GATES IN STRAIGHT WALL ISO VIEW

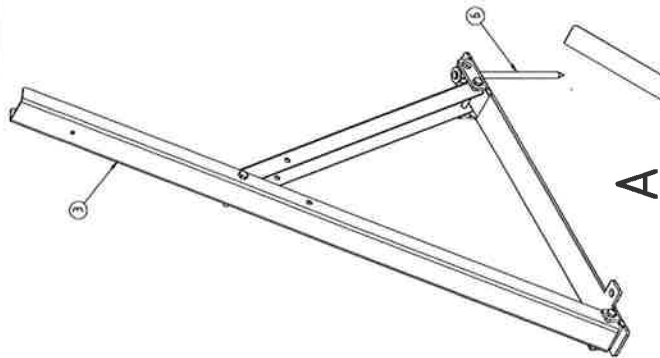


TYPICAL FRONT END LOADER ACCESS GATES IN CURVED WALL ISO VIEW

 CBH GROUP HEAD OFFICE LEVEL 5, 100 SOUTH BRISBANE PH (08) 9331 9600 FAX (08) 9332 3942 <small>DO NOT SCALE FROM THIS DRAWING</small>	REF. PROJ. NO.	REFERENCE SHADING TITLE	REV.	DATE	REVISIONS	BY	CHK.	APP.	DATE	REVISIONS	BY	CHK.	APP.	DATE	REVISIONS
<small>COPYRIGHT © 2008 BY CBH GROUP AND THE CONTAINING ELEMENTS OR WRITTEN MATERIAL ARE THE PROPERTY OF CBH GROUP AND ARE NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE EXPRESS WRITTEN PERMISSION OF CBH GROUP.</small>	<small>DESIGNED BY: 10/04/2008</small> <small>ENGINEER: BC 10/04/2008</small> <small>APPROVED BY: 10/04/2008</small> <small>PROJECT: S19-ENG-ST-DGA-0003</small> <small>SCALE: STANDARD</small>	<small>PROJECT TITLE: 19m OPEN BULK HEAD GENERAL ARRANGEMENT ANCHORING LAYOUT</small>	<small>VAR.:</small> A1 <small>STANDARD</small>	<small>DATE:</small> 10/04/2008 <small>REV.:</small> 0	<small>SCALE:</small> 2 OF 9	<small>PROJECT NO.:</small> S19-ENG-ST-DGA-0003	<small>SCALE:</small> 2 OF 9	<small>REV.:</small> 0	<small>DATE:</small> 10/04/2008	<small>REVISIONS:</small>	<small>BY:</small>	<small>CHK.:</small>	<small>APP.:</small>	<small>DATE:</small>	<small>REVISIONS:</small>



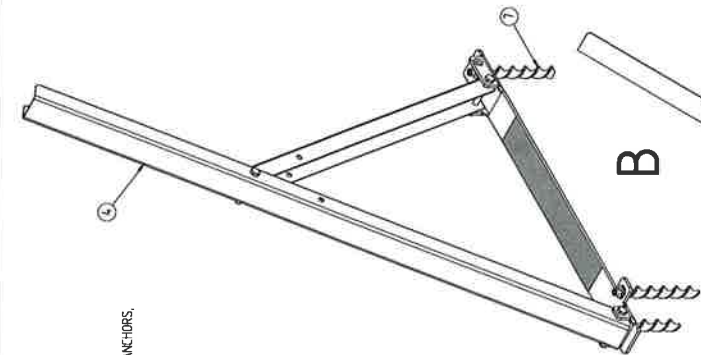
NOTES:
REMOVAL TOOL REQUIRED FOR SPIRAL ANCHORS,
M22 SPANNER/SOCKET,
HANDLE LENGTH TO SUIT CONDITIONS.



ARRANGEMENT 'A' NOTES:

- PURPOSE: ARRANGEMENT 'A' IS USED IN THE FRONT END LOADER ACCESS GATE ASSEMBLY (ST19-ENG-ST-AST-0034). ONLY 1 STRAIGHT PIN ANCHOR IS TO BE INSTALLED AS THE DOOR IS TO BE REMOVABLE.

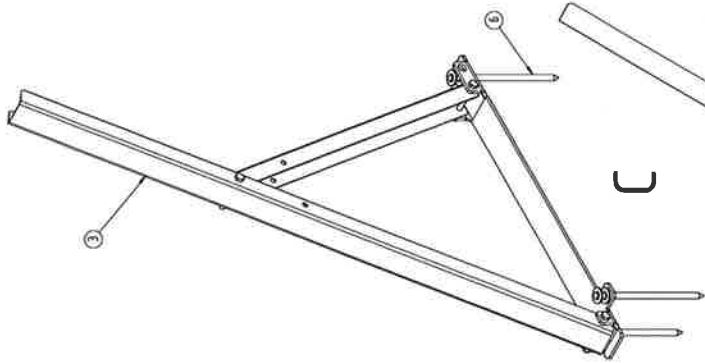
- STRUT TYPE: STRAIGHT PIN STRUT
- PIN TYPE: STRAIGHT PIN ANCHOR
- PIN QUANTITY: 1



ARRANGEMENT 'B' NOTES:

- PURPOSE: ARRANGEMENT 'B' IS USED 4 STRUTS EITHER SIDE OF THE FRONT END LOADER ACCESS GATES AND 3 STRUTS EITHER SIDE OF PERSONNEL ACCESS DOORS. AS WHEN THE GATES/DOORS ARE REMOVED, THE SURROUNDING STRUTS EXPERIENCE HIGHER WIND LOADS.

- STRUT TYPE: SPIRAL PIN STRUT
- PIN TYPE: SPIRAL PIN ANCHOR
- PIN QUANTITY: 3

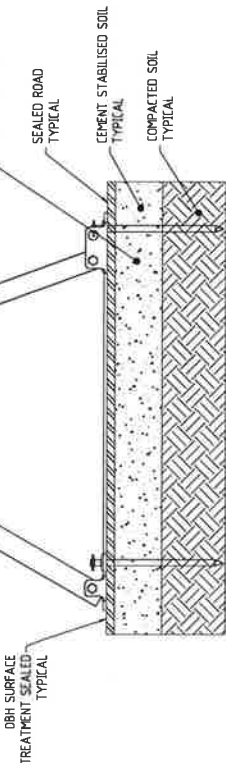


ARRANGEMENT 'C' NOTES:

- PURPOSE: ARRANGEMENT 'C' IS USED IN ALL LOCATIONS, OTHER THAN WHERE ARRANGEMENT 'A' AND 'B' ARE USED.

- STRUT TYPE: STRAIGHT PIN STRUT
- PIN TYPE: STRAIGHT PIN ANCHOR
- PIN QUANTITY: 3

REFER TO STANDARD CIVIL DRAWING
5000-ENG-CI-STD-0002 FOR
TYPICAL CIVIL SPECIFICATION



CBH GROUP HEAD OFFICE
LEVEL 6, 102 ST GEORGES TERRACE,
PERTH WA 6000
PH (08) 9337 9600 FAX (08) 9337 3942

DO NOT SCALE FROM THIS DRAWING

REF: DGS No. REFERENCE DRAWING TITLE REV. DATE

REV.	DATE	REVISIONS

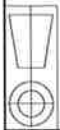
BY	CHK	APP	REV.	DATE	REVISIONS

NO.	DESCRIPTION	DATE	BY	CHK	APP	REV.
1	ISSUED FOR CONSTRUCTION					
2	REVISIONS					

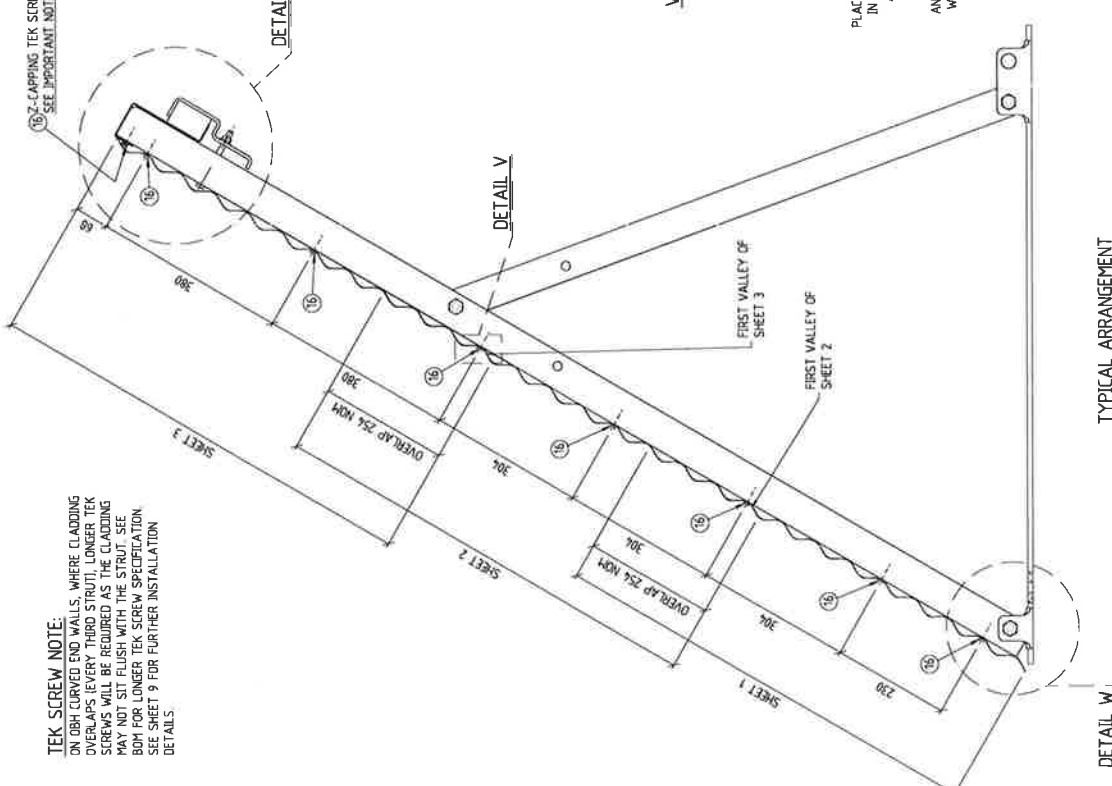
SCALE: AS SHOWN
DRAWN BY: M/AM/2006
CHECKED BY: S/06/2006
ENGINEER IN CHARGE: T/06/2006
DATE: 10/06/2006
BY: T/AM/APP (PERSONNEL)

18m OPEN BULK HEAD
GENERAL ARRANGEMENT
TYPICAL ANCHORING

VARIOUS
STANDARD
DRAWING NO. ST19-ENG-ST-DGA-0003
REV. 3 OF 9

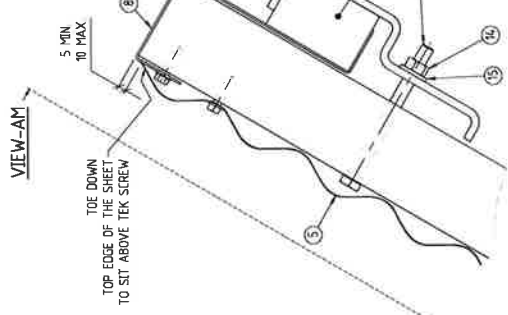


TEK SCREW NOTE:
 ON DBH CURVED END WALLS, WHERE CLADDING OVERLAPS EVERY THIRD STRUT, LONGER TEK SCREWS WILL BE REQUIRED AS THE CLADDING MAY NOT SIT FLUSH WITH THE STRUT. SEE BOM FOR LONGER TEK SCREW SPECIFICATION. SEE SHEET 9 FOR FURTHER INSTALLATION DETAILS.



16 Z-CAPPING TEK SCREW
 SEE IMPORTANT NOTES

DETAIL I



VIEW-AM

DETAIL I

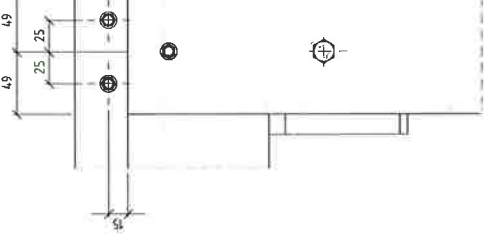
PLACE THE BOTTOM TEK SCREW IN THE SECOND CORRUGATION AS THIS WILL ALLOW THE WEIGHT OF THE GRAIN TO STRETCH THE CLADDING AND CLOSE THE BOTTOM GAP WHILE GRAIN IS IN STORAGE



DETAIL W

IMPORTANT NOTE:

- TYPICAL ALL JOINTS, EXCEPT DOOR/GATE JOINS.
- Z-CAPPING SHALL BUTT JOIN TO THE CENTRE LINE OF THE STRUT.
- ALL Z-CAPPING MUST BE ALIGNED AS ACCURATELY AS POSSIBLE. ANY MIS-ALIGNMENT IN THE Z-CAPPING WILL CREATE SHARP EDGES WHICH MAY DAMAGE THE DBH TARP. MAXIMUM Z-CAPPING MISALIGNMENT TO BE 2mm IN ALL DIRECTIONS.
- WHERE Z-CAPPING BUTT JOINS OVER A STRUT, FIX Z-CAP WITH 2 x TEK SCREWS, ONE IN EACH Z-CAP (SHOWN BELOW).
- WHERE Z-CAPPING PASSES OVER A STRUT, FIX Z-CAP WITH 1 x TEK SCREW, IN-LINE WITH THE CENTRE OF THE STRUT.



VIEW-AM

(CLADDING NOT SHOWN FOR CLARITY)

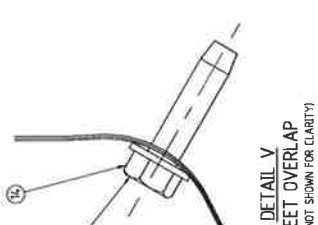
SHEET 2 & 3 OVERLAP - TEK SCREW TO BE FIXED IN THE FIRST VALLEY OF SHEET 3

SHEET 1 & 2 OVERLAP - TEK SCREW TO BE FIXED IN THE FIRST VALLEY OF SHEET 2

SHEET 3 ON TOP OF SHEET 2

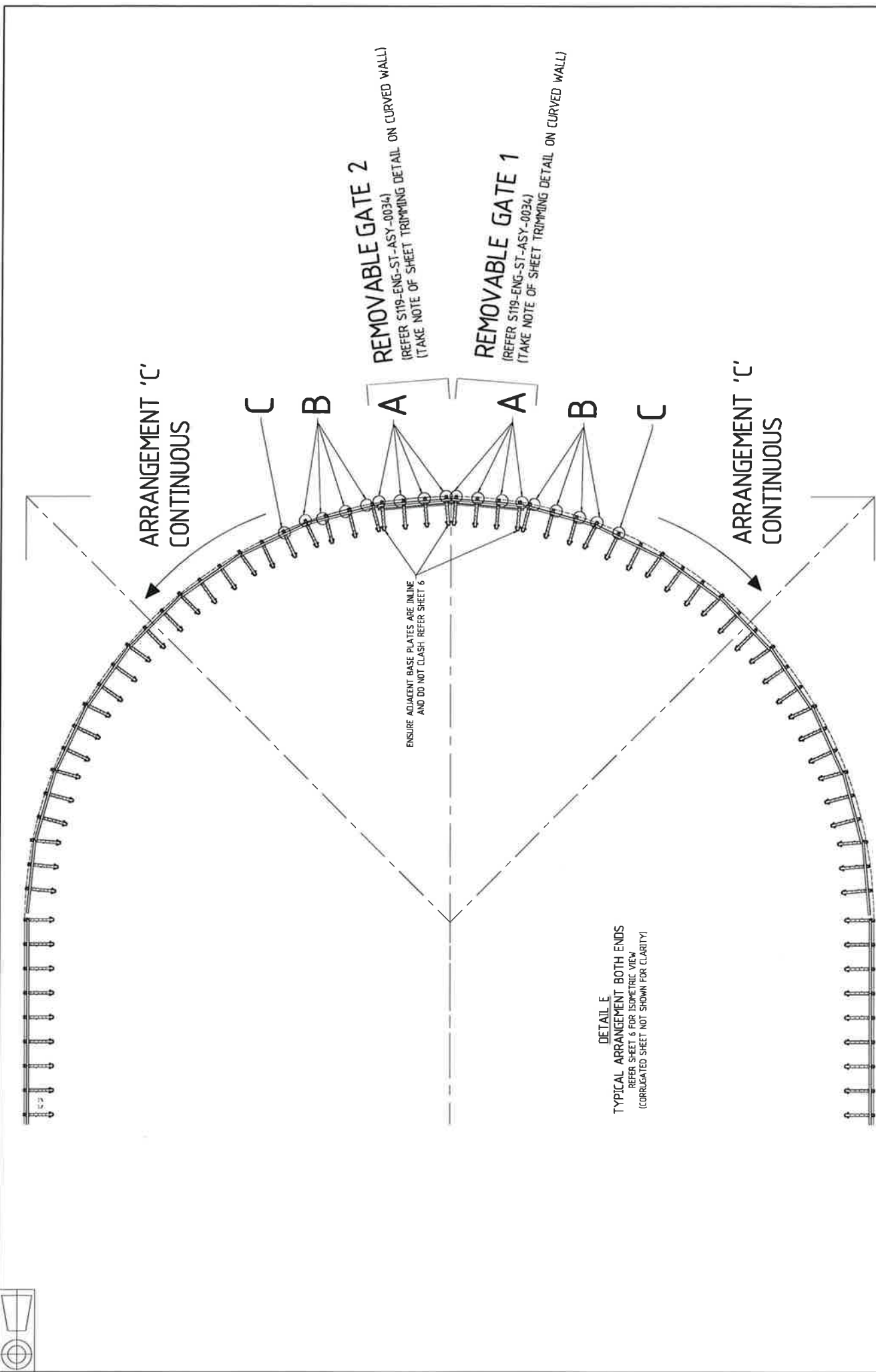
SHEET 2 ON TOP OF SHEET 1

DETAIL V
 SHEET OVERLAP
 (STRUT NOT SHOWN FOR CLARITY)

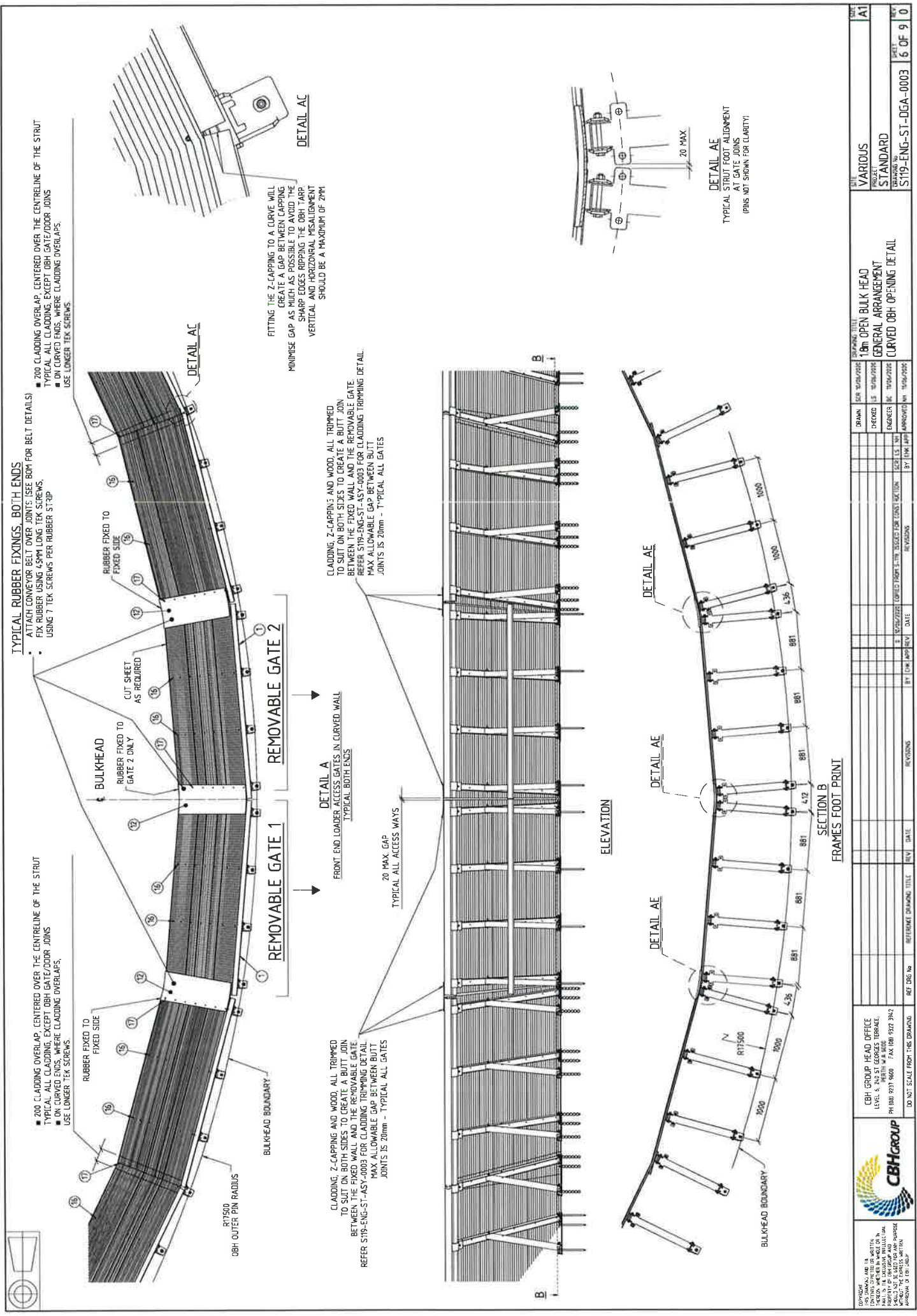


TYPICAL ARRANGEMENT

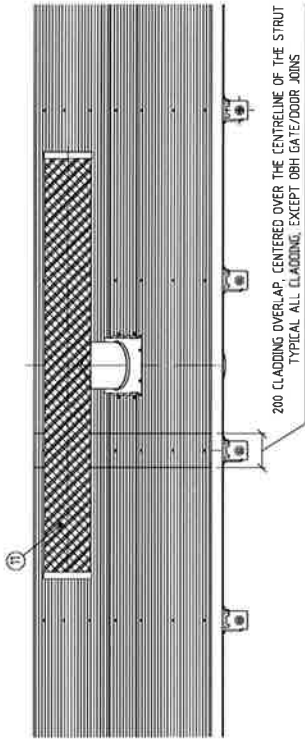
DRAWN: [] CHECKED: [] ENGINEER: [] APPROVED: []	DRAWING TITLE: 10m OPEN BULK HEAD GENERAL ARRANGEMENT TYPICAL WALL ASSEMBLY	SHEET: A1
		VARIOUS STANDARD S119-ENG-ST-DGA-0003 4 OF 9 0
REVISIONS NO. DATE BY (JOB NO./REV) DATE REVISIONS		
REF. ORG. NO. REFERENCE DRAWING TITLE REV. DATE		
CBH GROUP HEAD OFFICE LEVEL 5, 100 COLLEGE STREET, SYDNEY, NSW 1570, AUSTRALIA PH (02) 9337 9600 FAX (02) 9337 3442		
DO NOT SCALE FROM THIS DRAWING		
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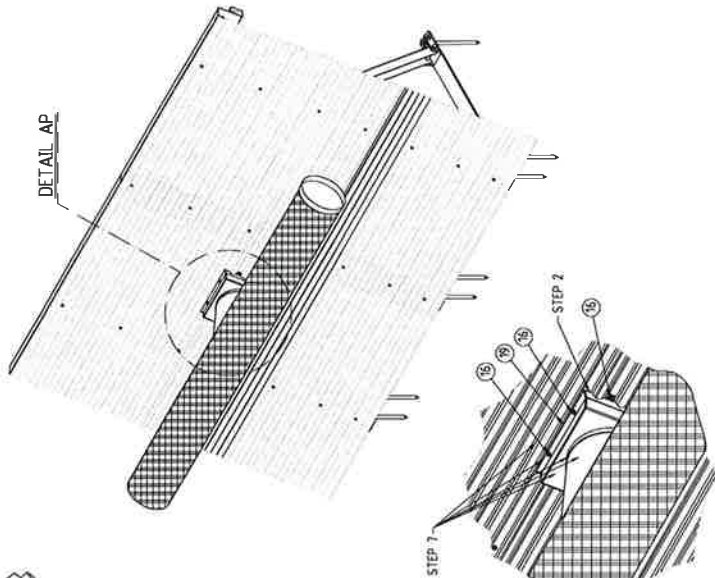
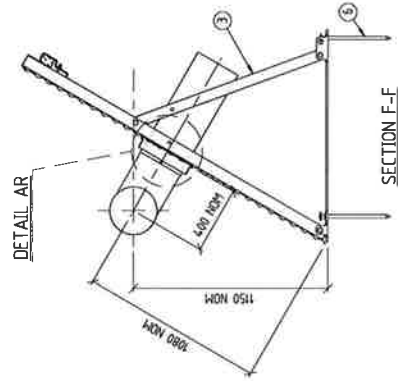
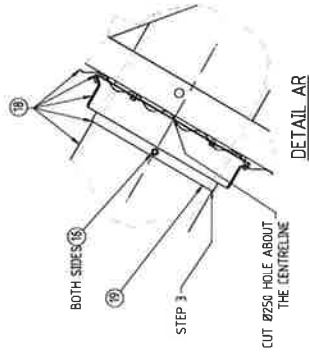
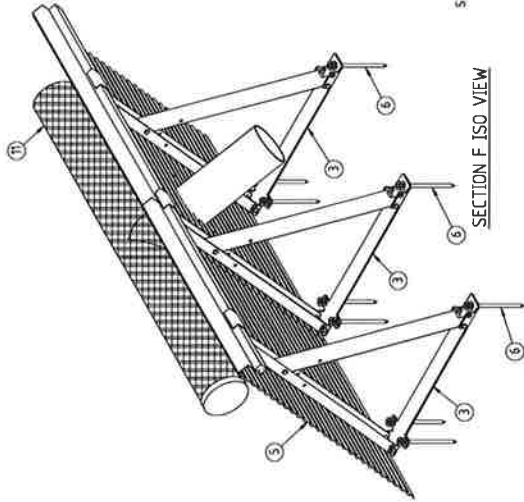
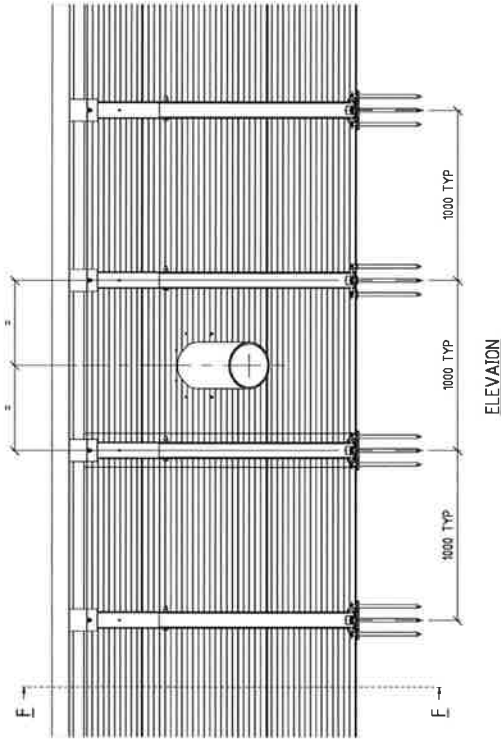
 CBH GROUP 1475 N. FORTH VA A 6000 PH (801) 937 9600 FAX (801) 937 3142	CBH GROUP HEAD OFFICE 1475 N. FORTH VA A 6000 PH (801) 937 9600 FAX (801) 937 3142	REF DWG No REFERENCE DRAWING TITLE REV DATE REVISIONS	1. REVISED/SHET 2. REVISED/SHET 3. REVISED/SHET 4. REVISED/SHET 5. REVISED/SHET 6. REVISED/SHET 7. REVISED/SHET 8. REVISED/SHET 9. REVISED/SHET 10. REVISED/SHET 11. REVISED/SHET 12. REVISED/SHET 13. REVISED/SHET 14. REVISED/SHET 15. REVISED/SHET 16. REVISED/SHET 17. REVISED/SHET 18. REVISED/SHET 19. REVISED/SHET 20. REVISED/SHET	BY DATE CHECKED DATE APPROVED DATE	DRAWN FOR CHECKED FOR APPROVED FOR	PROJECT STANDARD DRAWING NO S119-ENG-ST-DGA-0003	SHEET 5 OF 9	DATE 0
	PROJECT TITLE 10m OPEN BULK HEAD GENERAL ARRANGEMENT TYPICAL CURVED END WALL LAYOUT	VARIOUS STANDARD S119-ENG-ST-DGA-0003	SHEET 5 OF 9	DATE 0				



DATE	SCALE	PROJECT	PROJECT TITLE	DRW	CHK	APP	REV	DATE	BY	REVISIONS
A1		VARIOUS	16m OPEN BULK HEAD GENERAL ARRANGEMENT CURVED OBH OPENING DETAIL							
<p>DO NOT SCALE FROM THIS DRAWING</p> <p>CBH GROUP HEAD OFFICE LEVEL 5, 100 WATERLOO STREET, MELB PH (08) 9217 8600 FAX (08) 9217 3142</p> <p>CBH GROUP </p> <p>DESIGNED BY: J. WATKINS CHECKED BY: J. WATKINS ENGINEER BY: T. WATKINS APPROVED BY: J. WATKINS</p> <p>PROJECT NO: S119-ENG-ST-DGA-0003 SHEET: 6 OF 9 REV: 0</p>										



DETAIL B
'T' PIECE INSTALLATION DETAIL



DETAIL AP

BACKGROUND:

- THE 'T' PIECE IS USED TO PUMP HAZARDOUS FUMIGANT INTO THE STORAGE AFTER IT IS FULLY SEALED. CARE MUST BE TAKEN WHEN INSTALLING THE 'T' PIECE AND APPLYING THE SEALANTS TO ENSURE THE SEAL IS APPLIED TO A HIGH QUALITY.

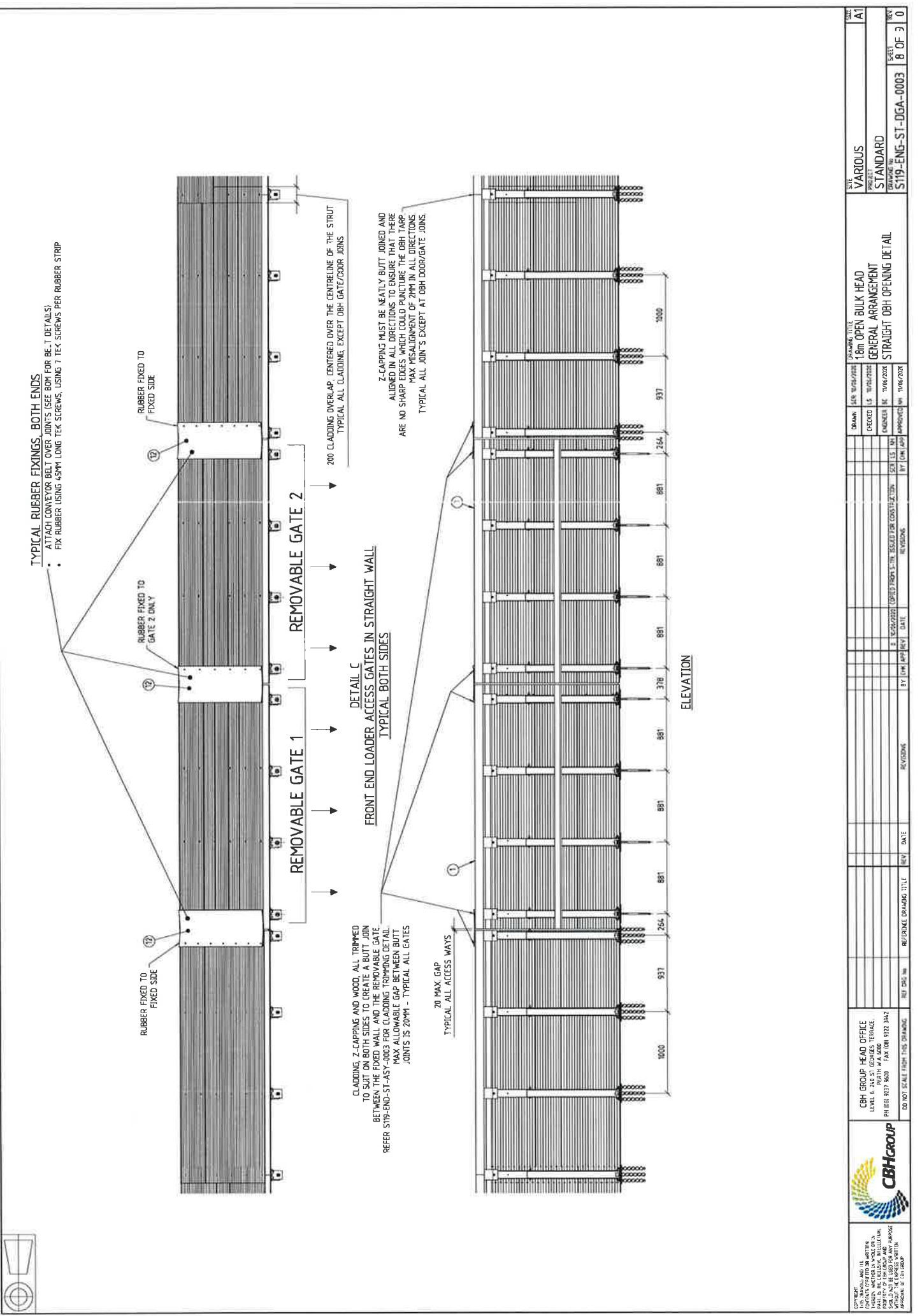
USE THE FOLLOWING QUANTITIES PER 1 'T' PIECE

- 1 X 600ML SAUSAGE OF BOSTIK SEAL AND FLEX 1
- 1L OF NOVALAST LTM 151

PROCEDURE:

- STEP 1: PREPARE AND CLEAN SURFACES WHERE SEALANTS ARE TO BE APPLIED AS PER MANUFACTURER'S SPECIFICATIONS.
- STEP 2: INITIAL COLLAR INSTALL. APPLY A THICK (5-10MM) BEAD OF BOSTIK SEAL N FLEX 1 TO ALL EDGES OF THE 'T' PIECE MOUNTING COLLAR WHICH WILL CONTACT THE CORRUGATED CLADDING.
- STEP 3: INSERT 'T' PIECE INTO THE 'T' PIECE MOUNTING COLLAR. SECURE THE 'T' PIECE AT THE LOCATION SHOWN USING 2 X TEK SCREWS. THROUGH THE MOUNTING COLLAR RING. APPLY A THICK (5-10MM) BEAD OF BOSTIK SEAL N FLEX 1 AROUND THE JOIN AND AROUND ANY GAPS, INCLUDING AROUND THE TEK SCREWS. ALSO APPLY A THICK BEAD TO FILL THE GAP BETWEEN THE CLADDING AND THE 'T' PIECE ON THE OUTSIDE OF THE BULKHEAD.
- STEP 4: LET SEALANT DRY AS PER MANUFACTURER'S DIRECTIONS.
- STEP 5: APPLY A SECOND THICK (5-10MM) BEAD OF BOSTIK SEAL N FLEX 1 AROUND ALL JOINS BETWEEN THE 'T' PIECE MOUNTING COLLAR, THE 'T' PIECE AND THE CLADDING.
- STEP 6: LET SEALANT DRY AS PER MANUFACTURER'S DIRECTIONS.
- STEP 7: PAINT THE ENTIRE 'T' PIECE MOUNTING COLLAR AND 150MM OF CLADDING AROUND THE COLLAR. ALSO PAINT 150MM OF THE 'T' PIECE. PAST THE COLLAR RING JOIN PAINT WITH NOVALAST 151 LTM.
- STEP 8: LET SEALANT DRY AS PER MANUFACTURER'S DIRECTIONS.

DRAWN: SEN WJW/PFE CHECKED: JL WJW/PFE ENGINEER: BL WJW/PFE APPROVED: NH WJW/PFE	REVISIONS NO. DATE BY (DW/APP) REVISIONS	PROJECT TITLE 18m OPEN BULK HEAD GENERAL ARRANGEMENT	SHEET NO. VARIOUS
	PROJECT NO. STANDARD	DRAWING NO. ST19-ENG-ST-DGA-0003	SCALE 7 OF 9 0
CBH GROUP HEAD OFFICE LEVEL 6, BILSA ST GEORGE'S TERRACE, PERTH WA 6000 PH 081 9377 9600 FAX 081 9322 9642	REF. DWG. No. REVISION DRAWING TITLE REV. DATE	DO NOT SCALE FROM THIS DRAWING	CBH Group
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TYPICAL RUBBER FIXINGS, BOTH ENDS

- ATTACH CONVEYOR BELT OVER JOINTS (SEE BOM FOR BE-T DETAILS)
- FIX RUBBER USING 45MM LONG TEK SCREWS, USING 7 TEK SCREWS PER RUBBER STRIP

RUBBER FIXED TO FIXED SIDE

RUBBER FIXED TO GATE 2 ONLY

RUBBER FIXED TO FIXED SIDE

200 CLADDING OVERLAP, CENTERED OVER THE CENTRELINE OF THE STRUT
TYPICAL ALL CLADDING, EXCEPT OBH GATE/DOOR JOINS

CLADDING, Z-CAPPING AND WOOD, ALL TRIMMED TO SUIT ON BOTH SIDES TO CREATE A BUTT JOINT BETWEEN THE FIXED WALL AND THE REMOVABLE GATE
REFER ST19-END-ST-AST-0003 FOR CLADDING TRIMMING DETAIL
MAX ALLOWABLE GAP BETWEEN BUTT JOINTS IS 20MM - TYPICAL ALL GATES

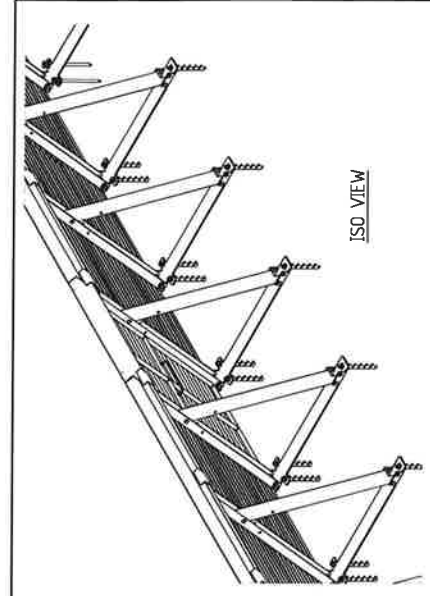
FRONT END LOADER ACCESS GATES IN STRAIGHT WALL
TYPICAL BOTH SIDES

Z-CAPPING MUST BE NEATLY BUTT JOINED AND ALIGNED IN ALL DIRECTIONS TO ENSURE THAT THERE ARE NO SHARP EDGES WHICH COULD PUNCTURE THE OBH TARP
MAX MISALIGNMENT OF 2MM IN ALL DIRECTIONS
TYPICAL ALL JOINTS EXCEPT AT OBH DOOR/GATE JOINS

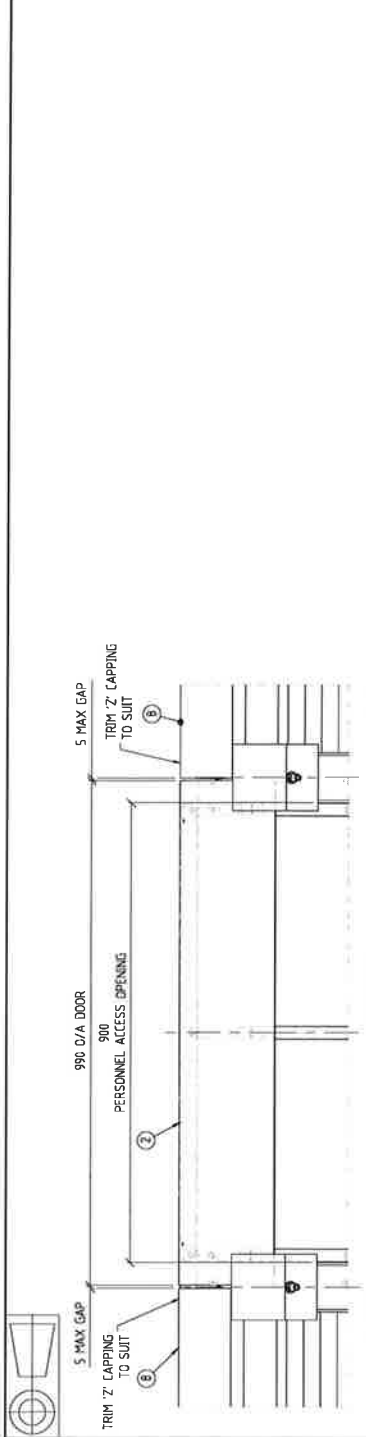
20 MAX GAP
TYPICAL ALL ACCESS WAYS

ELEVATION

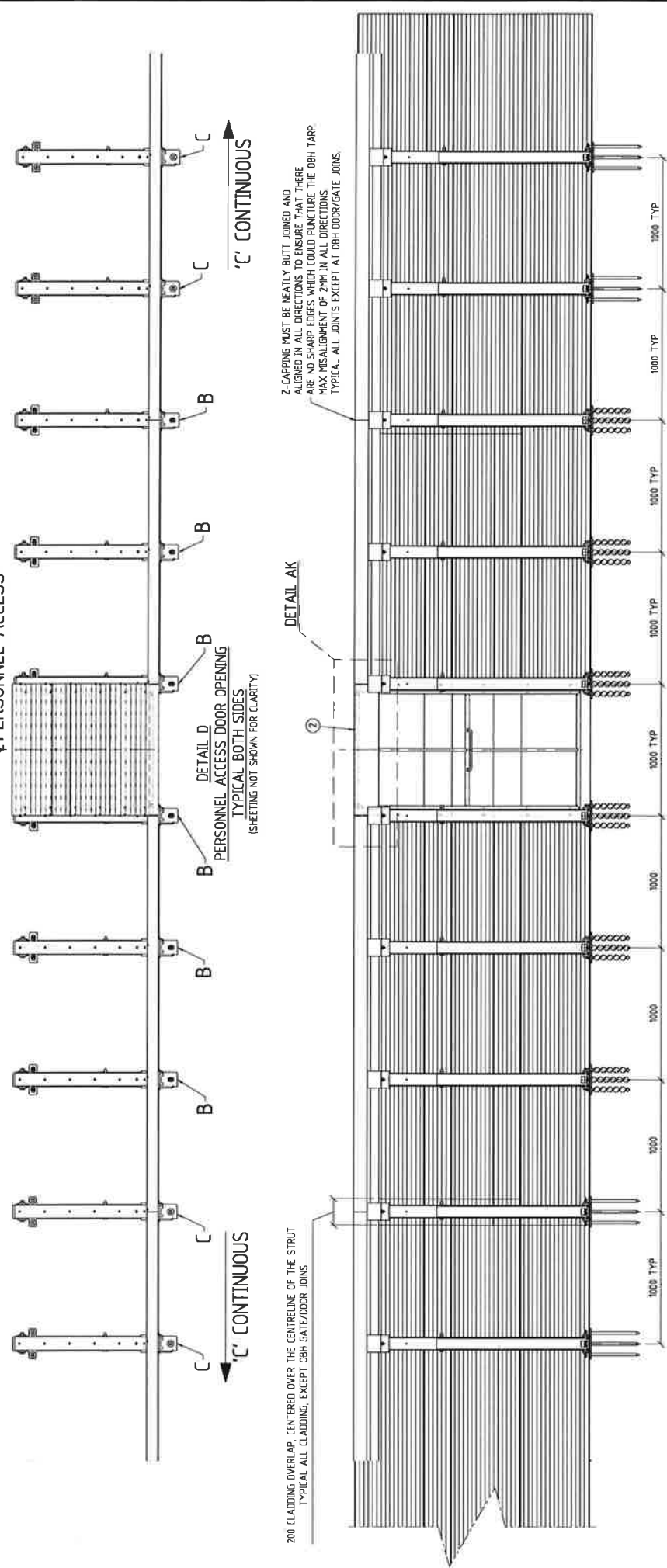
		CBH GROUP HEAD OFFICE LEVEL 6 370/372 WILMINGTON STREET PERTH WA 6000 PH (08) 9377 9600 FAX (08) 9322 3842	DO NOT SCALE FROM THIS DRAWING	REFERENCE DRAWING TITLE REV DATE REV DATE	BY (I/M) APP (REV) DATE REVISIONS	DRAWN CHECKED ENGINEER APPROVED	DATE DATE DATE DATE	PROJECT TITLE PROJECT NUMBER DRAWING NO.	SHEET NO. SHEETS
		CBH GROUP HEAD OFFICE LEVEL 6 370/372 WILMINGTON STREET PERTH WA 6000 PH (08) 9377 9600 FAX (08) 9322 3842	DO NOT SCALE FROM THIS DRAWING	REFERENCE DRAWING TITLE REV DATE REV DATE	BY (I/M) APP (REV) DATE REVISIONS	DRAWN CHECKED ENGINEER APPROVED	DATE DATE DATE DATE	PROJECT TITLE PROJECT NUMBER DRAWING NO.	SHEET NO. SHEETS
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ISO VIEW



PERSONNEL ACCESS



Z-LAPPING MUST BE NEATLY BUTT JOINED AND ALIGNED IN ALL DIRECTIONS TO ENSURE THAT THERE ARE NO SHARP EDGES WHICH COULD PUNCTURE THE OBH TARP. MAX MISALIGNMENT OF 2MM IN ALL DIRECTIONS. TYPICAL. ALL JOINTS EXCEPT AT OBH DOOR/GATE JOINS.

200 CLADDING OVERLAP, CENTERED OVER THE CENTRELINE OF THE STRUT. TYPICAL ALL CLADDING, EXCEPT OBH GATE/DOOR JOINS.

	CBH GROUP HEAD OFFICE LEVEL 6, 242 ST GEORGES TERRACE, PERTH WA 6000 PH (08) 9377 9620 FAX (08) 9322 3942 DO NOT SCALE FROM THIS DRAWING	REF. NO.	REFERENCE DRAWING TITLE	REV.	DATE	REVISIONS	BY (UW)	APPR (REV)	DATE	REVISIONS
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	DRAWN CHECKED ENGINEER BY (UW) (APP)	NEW U.S. H.C.	REVISIONS U.S. H.C.	U.S. H.C.	U.S. H.C.	U.S. H.C.	U.S. H.C.	U.S. H.C.	U.S. H.C.	U.S. H.C.
	VARIOUS STANDARD SERVICES STS-ENG-ST-DGA-0003									9 OF 9 0