

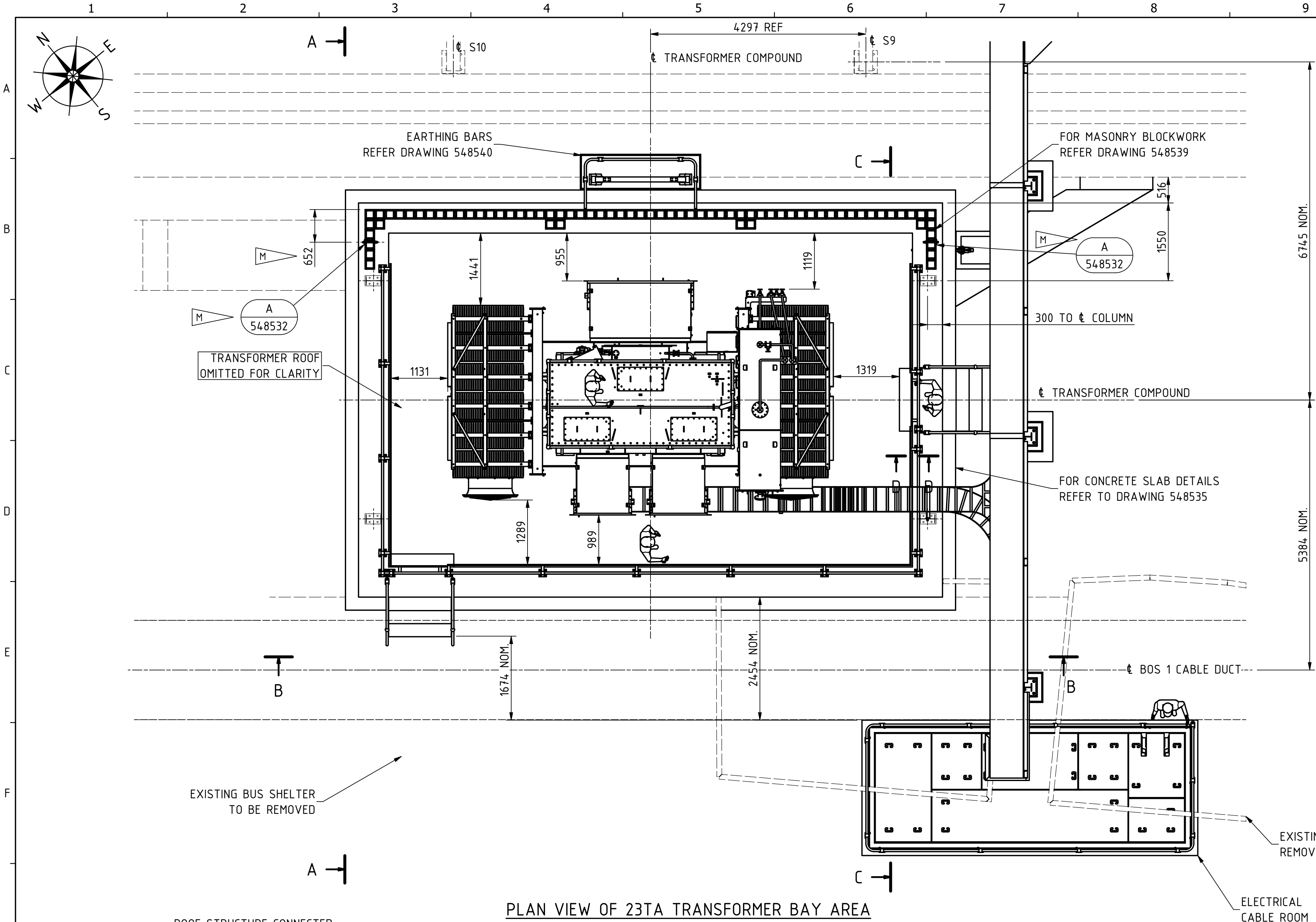
PRELIMINARY
DRAWING NOT FINAL
NOT FOR CONSTRUCTION

REFERENCE DRAWINGS:
11093 - TURBINE BLOCK DETAILS
548642 - ALTERNATOR BASE FRAME DETAILS
548646 - 23 TURBINE AND ALTERNATOR ARRANGEMENT

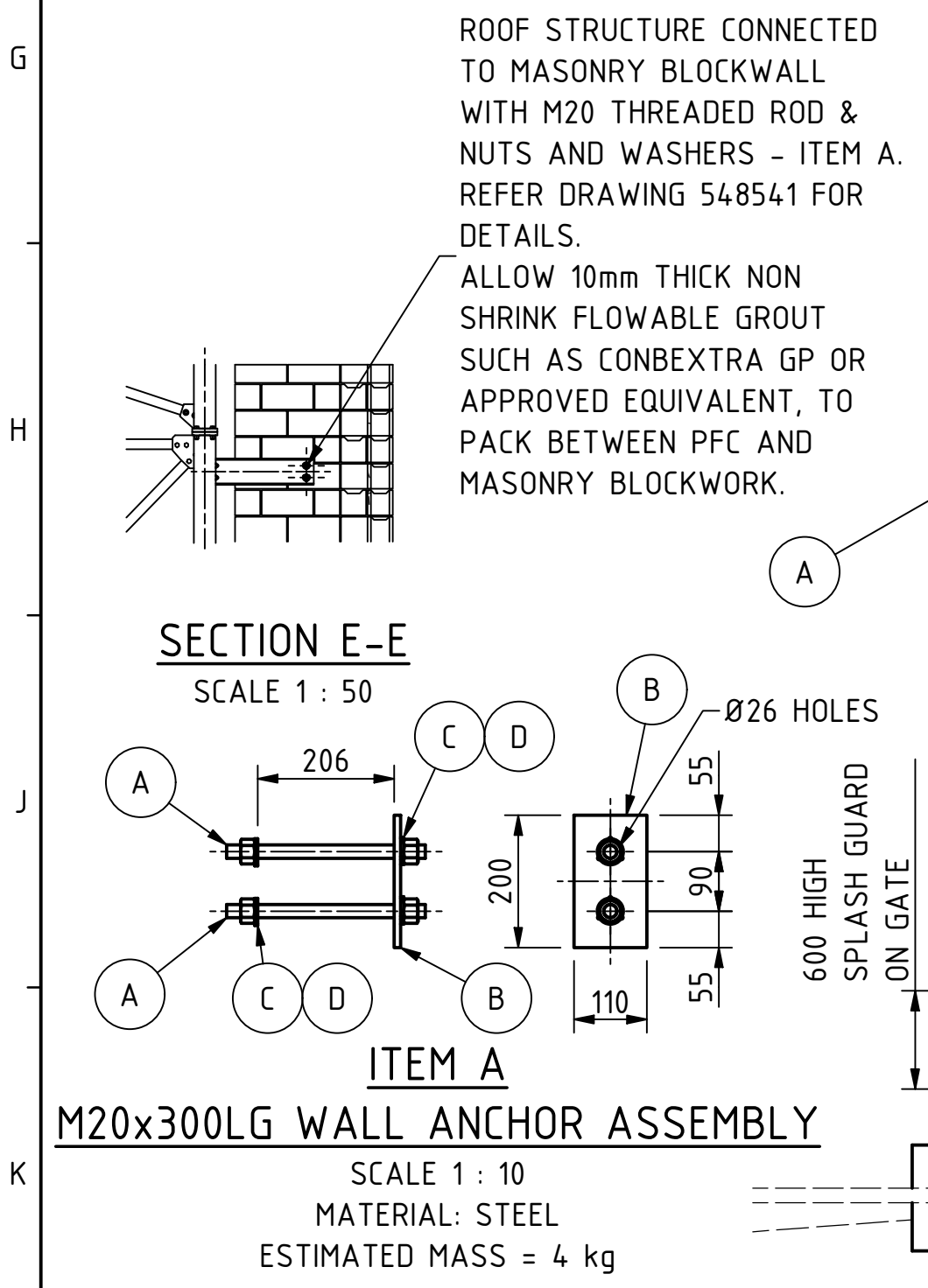
44245-02 - BLOWER STATION 23 SURVEY ALTERNATOR FOUNDATION (WOOLPERT)

QTY	ITEM	DESCRIPTION	DRAWING	MASS (EACH)
4	18	HEX BOLT STRUCTURAL AS 1252 - M20 x 80 C/W NUT & FLAT WASHER		.4 kg
8	17	HEX BOLT STRUCTURAL AS 1252 - M30 x 120 C/W NUT & FLAT WASHER		1.5 kg
4	16	HEX BOLT CLASS 4.6 GALV - M36 x 150 C/W NUT		2.0 kg
2	15	PACKER SET 2	548647	6.3 kg
12	14	PACKER SET 1	548647	2.1 kg
8	13	AS 1252 - M24 x 85 HEX BOLT C/W 2x WASHER AND NUT		.5 kg
12	12	AS 1252 - M36 x 160 HEX BOLT C/W 2x WASHER AND NUT		1.8 kg
12	11	COUPLING BOLT ALTERNATOR END		.9 kg
13	10	COUPLING BOLT TURBINE END	494176	.9 kg
37	9	COUPLING NUT	494176	.3 kg
1	8	TURBINE GEAR WHEEL	373680	39.3 kg
4	6	ALTERNATOR VENT VALVE	??????	1.2 kg
1	5	ALTERNATOR DRIVE SHAFT	494174	218.2 kg
1	4	ALTERNATOR BASE FRAME	548647	7564.3 kg
1	3	TURBINE BASE FRAME	11811	8519.7 kg
1	2	TOSHIBA TAF-RCC TGA32A00 18000KVA 2P 6600V 3PH 50HZ ALTERNATOR, SERIAL TBC		8218.5 kg
1	1	BROWN BOVERI STEAM TURBINE TYPE DQ 38B, SERIAL 33210		30619.3 kg

FUNCTIONAL LOCATION CODES				This design is the property of BlueScope Steel (AISI) Pty Ltd. ABN 19 000 019 625 TITLEBLOCK TO COMPLY WITH SP-ENG-DES-196, VERSION CURRENT AT "DATE BDN"				PROJECT/WS No: PKC.04445.20.100			
DRAWING PRODUCED BY: Peter Ellsmore & Associates www.ellsmore.com.au Ph: 02 4253 5600				DRAWN: PAUL MAJEWSKI (PEA)				CHECKED: DISC ENGINEER OR SPECIALIST			
DISC ENGINEER OR SPECIALIST				RESPONSIBLE ENGINEER				REGISTRATION APPROVAL			
ORDER No:				CONTRACTOR/SUPPLIER REF No:				DRAWING STATUS:			
CONTRACTOR DETAILS				INVENTOR FILE NAME: 548646.dwg				DATE DRAWN: 7-06-2023			
REFERENCE DRAWINGS				SCALE: AS NOTED				REV No: C			

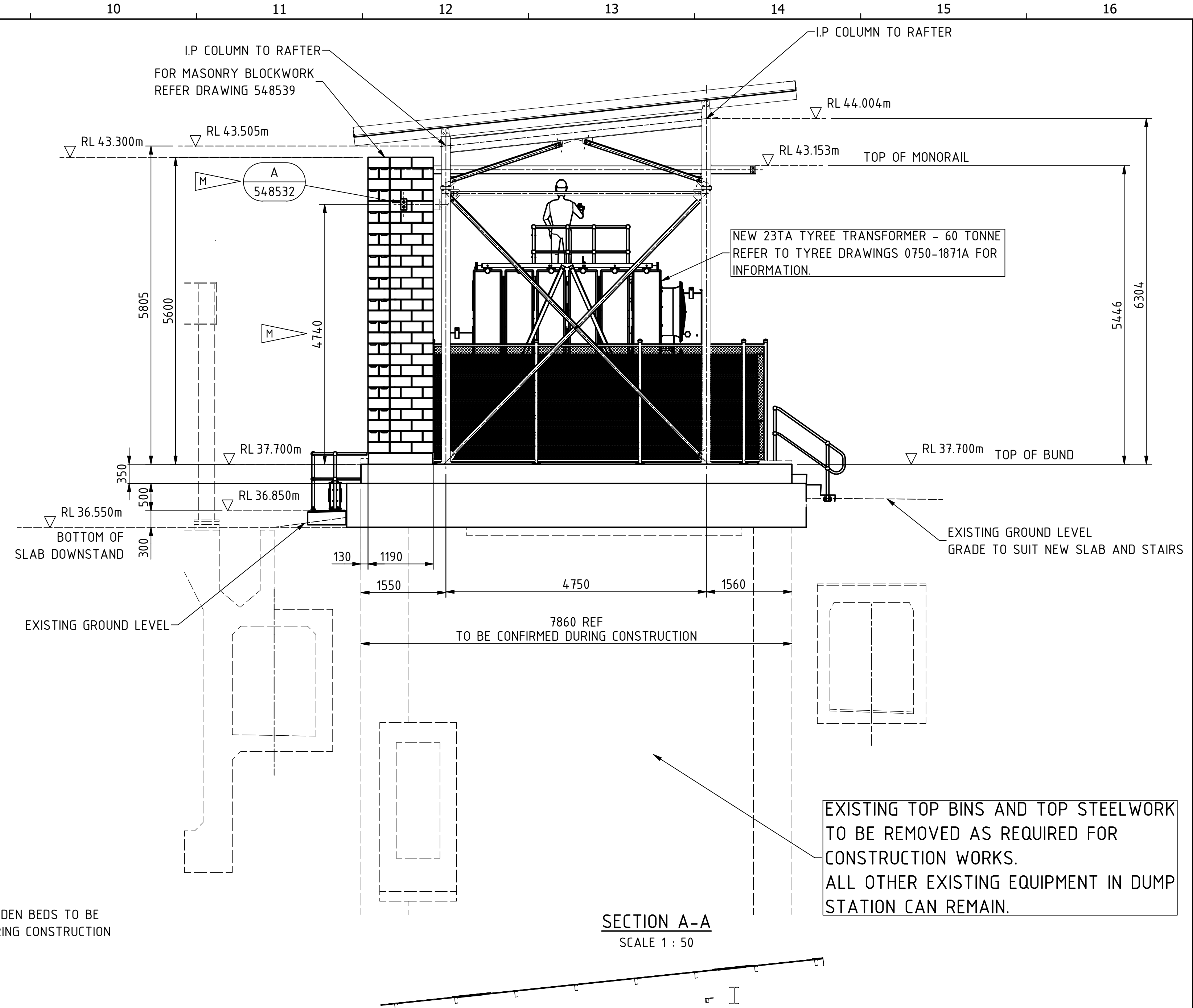


PLAN VIEW OF 23TA TRANSFORMER BAY AREA
SCALE 1 : 50

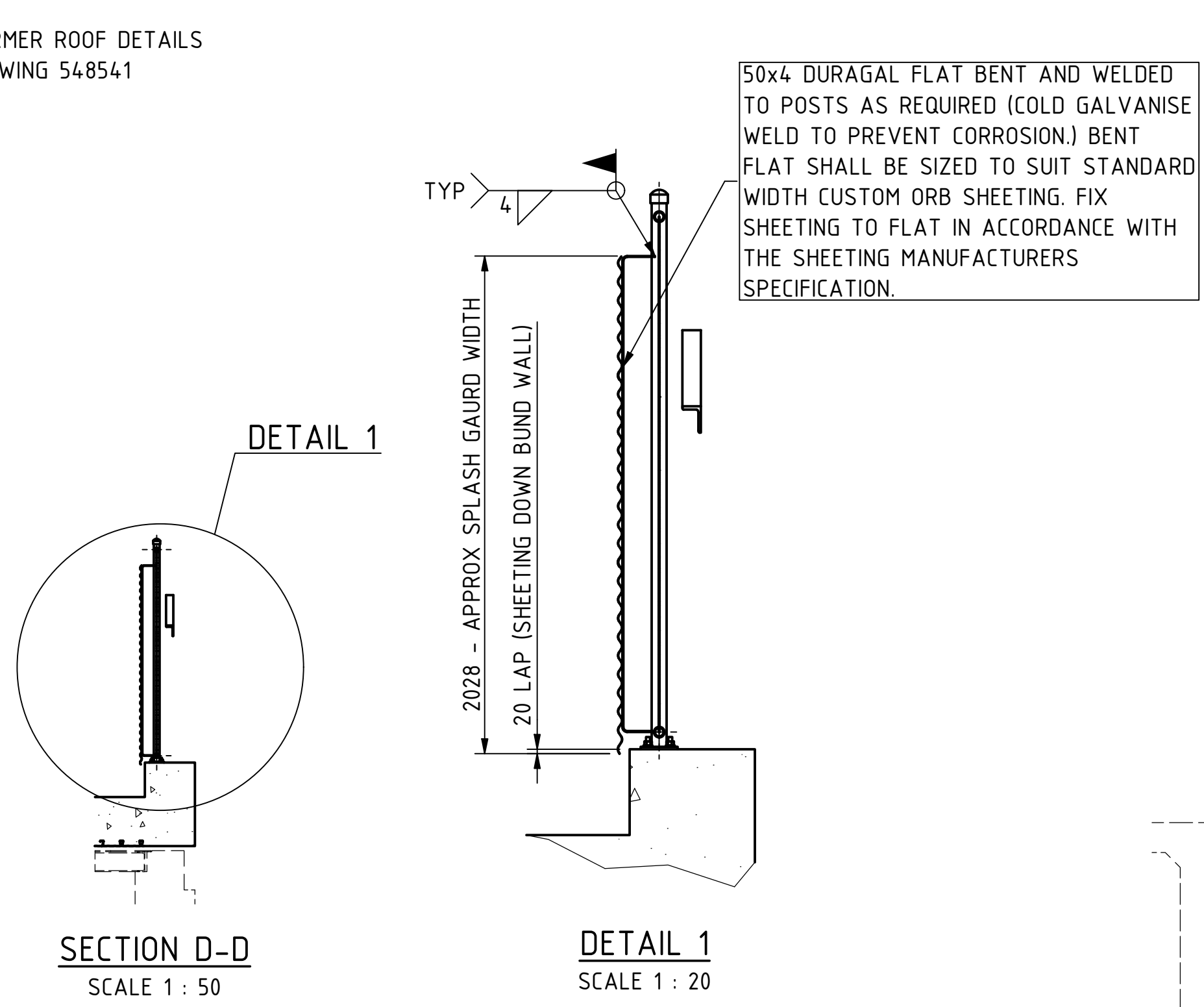


PRELIMINARY
DRAWING NOT FINAL
NOT FOR CONSTRUCTION

M	DATE	PROJECT/WBS No	CHANGE APPROVAL No	L	DATE	PROJECT/WBS No	CHANGE APPROVAL No	K	DATE	PROJECT/WBS No	CHANGE APPROVAL No	J	DATE	PROJECT/WBS No	CHANGE APPROVAL No	H	DATE	PROJECT/WBS No	CHANGE APPROVAL No	G	DATE	PROJECT/WBS No	CHANGE APPROVAL No
M	17-03-23			L	15-06-23			K	20-05-23			J	15-05-23			H	17-04-23			G	17-04-23		
DRAWING STATUS: ISSUED FOR TENDER				DRAWING STATUS: ISSUED FOR TENDER				DRAWING STATUS: ISSUED FOR TENDER				DRAWING STATUS: ISSUED FOR TENDER				DRAWING STATUS: ISSUED FOR TENDER				DRAWING STATUS: ISSUED FOR TENDER			
ISSUED FOR TENDER				ISSUED FOR TENDER				ISSUED FOR TENDER				ISSUED FOR TENDER				ISSUED FOR TENDER				ISSUED FOR TENDER			
DIMENSION AND ITEM BUBBLE ADDED				TRANSFORMER SPLASH SHIELD UPDATED				TRANSFORMER UPDATED				CHECKING COMPLETED				EABLE ROOM AND TUNNEL UPDATED							
DRAWN: JEFF BROWN (PEA)				CHECKED: PETER HARRIS (PEA)				DRAWN: JEFF BROWN (PEA)				CHECKED: PETER HARRIS (PEA)				DRAWN: JEFF BROWN (PEA)				CHECKED: PAUL VAN RYN (PEA)			
D/No. CONT. NAME & REF No:				D/No. CONT. NAME & REF No:				D/No. CONT. NAME & REF No:				D/No. CONT. NAME & REF No:				D/No. CONT. NAME & REF No:				D/No. CONT. NAME & REF No:			
DE/SPEC: BROOK HUA (BECA)				DE/SPEC: BROOK HUA (BECA)				DE/SPEC: BROOK HUA (BECA)				DE/SPEC: BROOK HUA (BECA)				DE/SPEC: BROOK HUA (BECA)				DE/SPEC: BROOK HUA (BECA)			
DE/SPEC:				DE/SPEC:				DE/SPEC:				DE/SPEC:				DE/SPEC:				DE/SPEC:			
RESP ENG: DAVE MAITLAND (BSL)				REGN APPR: JASON KOLSKY (BSL)				RESP ENG: DAVE MAITLAND (BSL)				REGN APPR: JASON KOLSKY (BSL)				RESP ENG: DAVE MAITLAND (BSL)				REGN APPR: JASON KOLSKY (BSL)			



SECTION A-A
SCALE 1 : 50

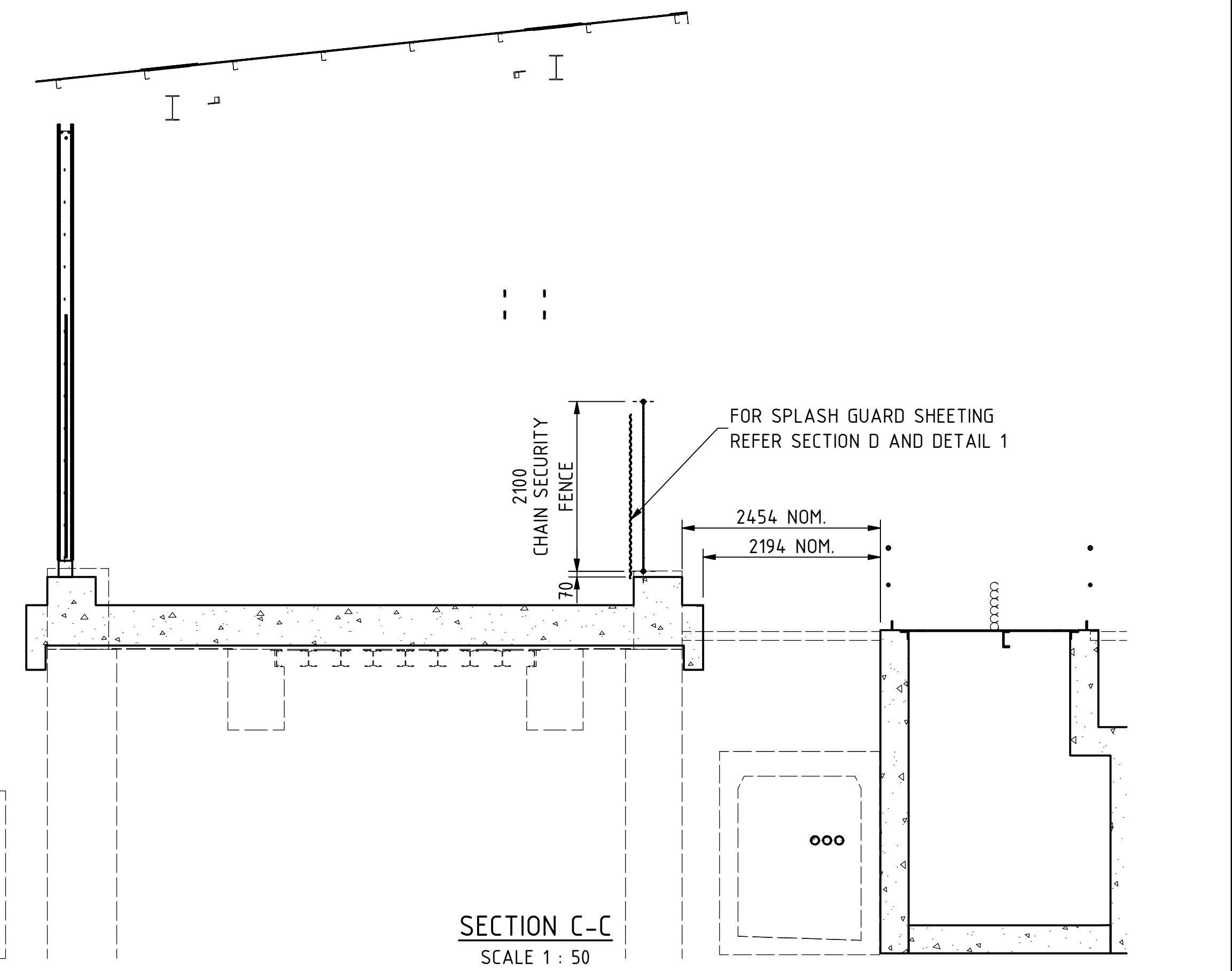


SECTION D-D
SCALE 1 : 50

DETAIL 1
SCALE 1 : 20

FOR STRUCTURAL NOTES REFER
TO DRAWING No 548501

TENDER ISSUE ONLY
NOT FOR CONSTRUCTION



SECTION C-C
SCALE 1 : 50

QTY	ITEM	DESCRIPTION	REMARKS	MATERIAL No
8	D	M20 HEX NUT - 8.8 GRADE - GALVANISED		
8	C	M20 PLAIN ROUND WASHER - 8.8 GRADE - GALVANISED		
2	B	10mm BACKING PLATE - GALVANISED		
4	A	M20x300LG THREADED ROD - GALVANISED		
B1				
DRAWN		CHECKED		DISC. ENGINEER OR SPECIALIST
JEFF BROWN (PEA)		PETER HARRIS (PEA)		BROOK HUA (BECA)
DISC. ENGINEER OR SPECIALIST		RESPONSIBLE ENGINEER		REGISTRATION APPROVAL
DAVE MAITLAND (BSL)		JASON KOLSKY (BSL)		
INVENTOR FILE NAME: 548532.dwg		DRAWING No:		REV No
DATE DRAWN: 26-11-2022		SCALE		M
SCALE: AS NOTED		DRAWING STATUS:		

BLUESCOPE Port Kembla Steelworks

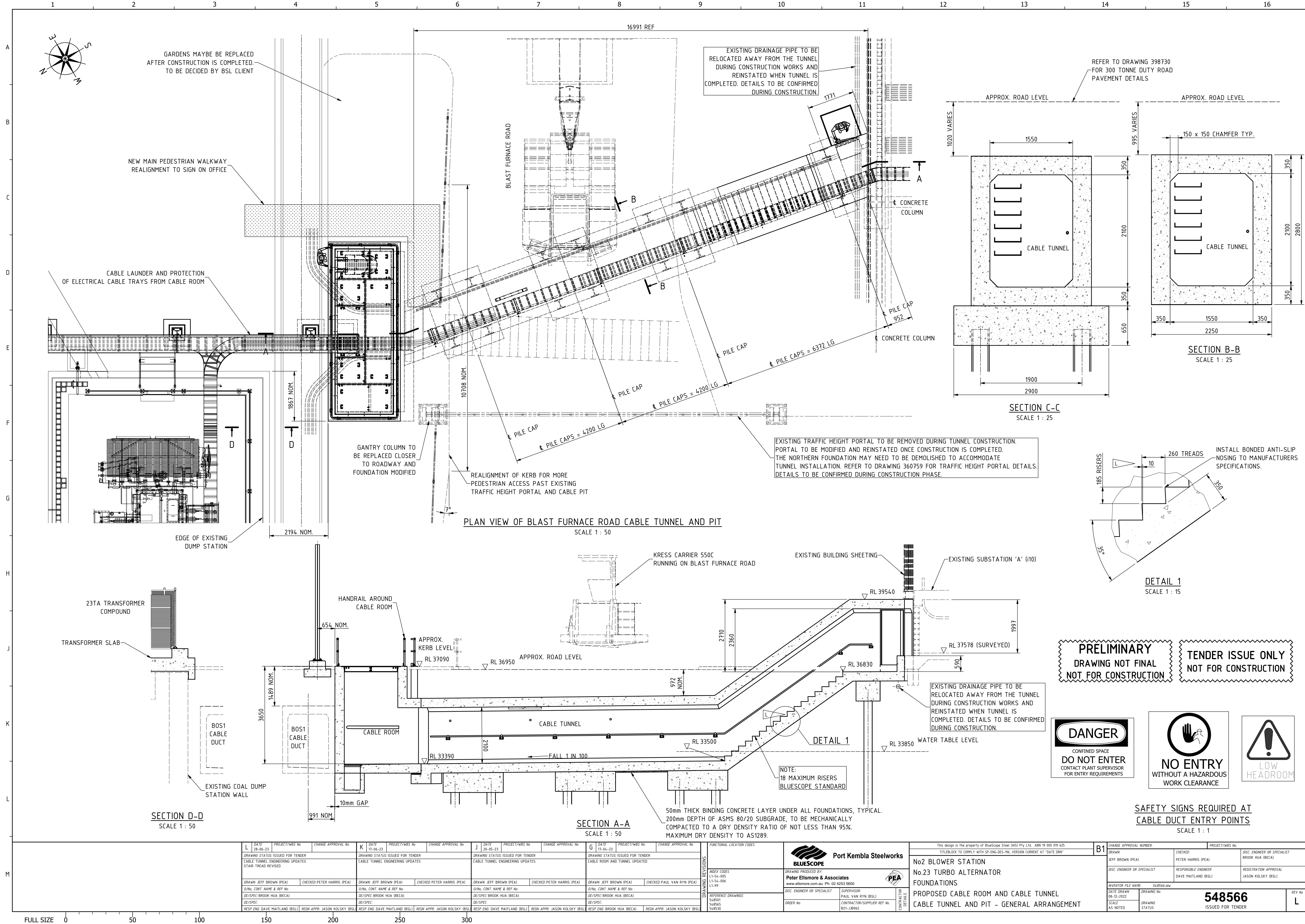
DRAWING PRODUCED BY:
Peter Ellsmore & Associates
www.ellsmore.com.au Ph: 02 4253 5600

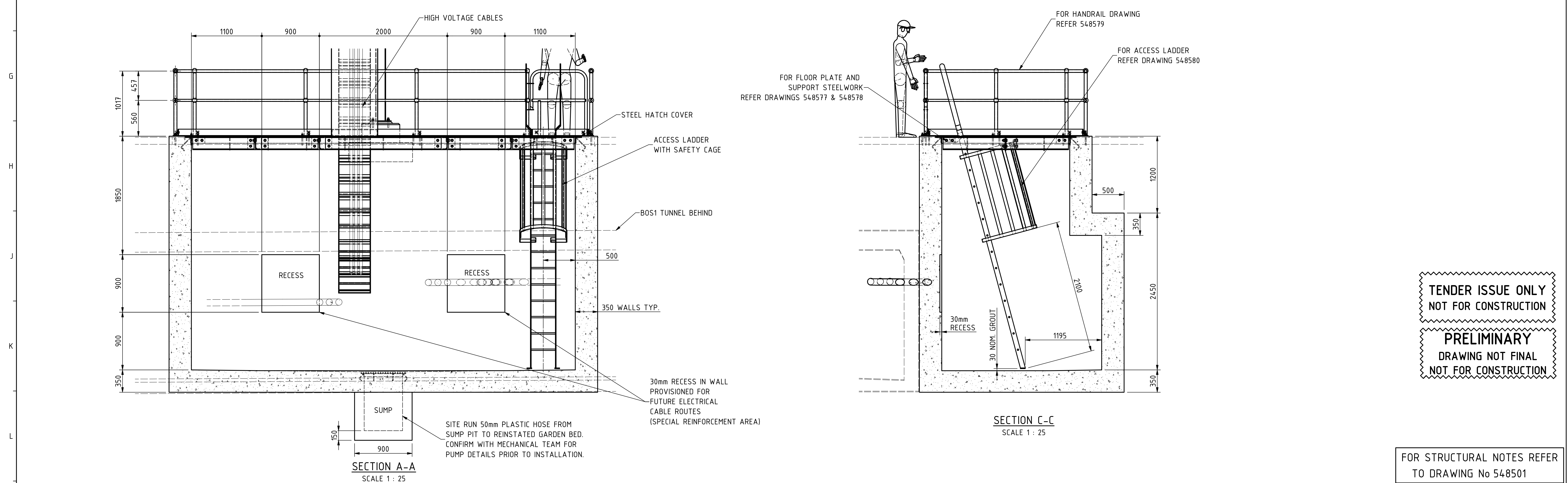
DISC. ENGINEER OR SPECIALIST: PAUL VAN RYN (PEA)
SUPERVISOR: PAUL VAN RYN (PEA)
CONTRACTOR/SUPPLIER REF No: 021-JB002



This design is the property of BlueScope Steel (AIS) Pty Ltd. AEN 19 000 019 625
TITLEBLOCK TO COMPLY WITH SP-ENG-DES-196, VERSION CURRENT AT "DATE BDN"

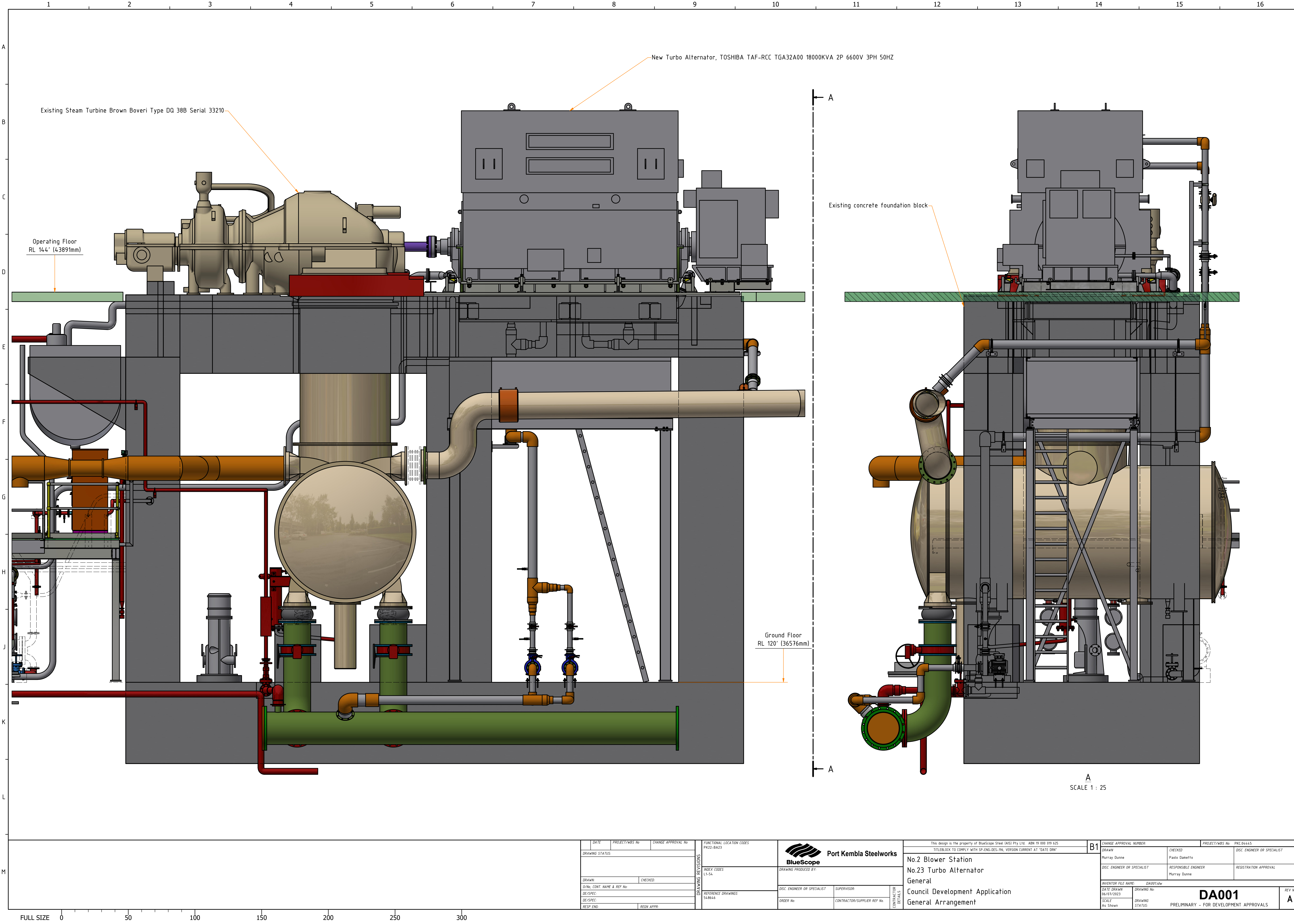
No2 BLOWER STATION
No.23 TURBO ALTERNATOR STRUCTURES
23TA TRANSFORMER LAYOUT
PLAN AND SECTIONS

548532
ISSUED FOR TENDER





M	L DATE 29-06-23 PROJECT/WS No CHANGE APPROVAL No		K DATE 19-06-23 PROJECT/WS No CHANGE APPROVAL No		J DATE 20-05-23 PROJECT/WS No CHANGE APPROVAL No		G DATE 17-04-23 PROJECT/WS No CHANGE APPROVAL No		DRAWING REVISIONS	FUNCTIONAL LOCATION CODES		 Port Kembla Steelworks		This design is the property of BlueScope Steel (ASX) Pty Ltd. ABN 19 000 071 625 TITLED/LOCK TO COMPLY WITH SP-ENG-DES-TM, VERSION CURRENT AT "DATE BDN"		B1	CHANGE APPROVAL NUMBER		PROJECT/WS No	
	DRAWING STATUS: ISSUED FOR TENDER		DRAWING STATUS: ISSUED FOR TENDER		DRAWING STATUS: ISSUED FOR TENDER		DRAWING STATUS: ISSUED FOR TENDER			DRAWING STATUS: ISSUED FOR TENDER		DRAWN		CHECKED PETER HARRIS (PEA)			DISC ENGINEER OR SPECIALIST BROOK HUIA (BECA)			
	CABLE ROOM ENGINEERING UPDATES AND NOTE UPDATED		CABLE ROOM ENGINEERING UPDATES		CABLE TUNNEL ENGINEERING UPDATES		CABLE ROOM AND TUNNEL UPDATED			CABLE ROOM AND TUNNEL UPDATED		DISC ENGINEER OR SPECIALIST		RESPONSIBLE APPROVAL PAUL VAN RYN (BSL)			REGISTRATION APPROVAL JASON KOLSKY (BSL)			
	DRAWN: JEFF BROWN (PEA) CHECKED: PETER HARRIS (PEA)		DRAWN: JEFF BROWN (PEA) CHECKED: PETER HARRIS (PEA)		DRAWN: JEFF BROWN (PEA) CHECKED: PETER HARRIS (PEA)		DRAWN: JEFF BROWN (PEA) CHECKED: PAUL VAN RYN (PEA)			DRAWN: JEFF BROWN (PEA) CHECKED: PAUL VAN RYN (PEA)		INDEX CODES L1-54-005 L1-54-006 L1-59		DRAWING PRODUCED BY: Peter Ellsmore & Associates www.ellsmore.com.au Ph: 02 4253 9800						
	G/NG: CONT. NAME & REF No		G/NG: CONT. NAME & REF No		G/NG: CONT. NAME & REF No		G/NG: CONT. NAME & REF No			G/NG: CONT. NAME & REF No		DISC ENGINEER OR SPECIALIST		SUPERVISOR: PAUL VAN RYN (PEA)			CONTRACTOR/SUPPLIER REF No B21-JM62		ORDER No:	
	DE/SPEC: BROOK HUIA (BECA)		DE/SPEC: BROOK HUIA (BECA)		DE/SPEC: BROOK HUIA (BECA)		DE/SPEC: BROOK HUIA (BECA)			DE/SPEC: BROOK HUIA (BECA)		DE/SPEC: BROOK HUIA (BECA)		DE/SPEC: BROOK HUIA (BECA)			DE/SPEC: BROOK HUIA (BECA)		DE/SPEC: BROOK HUIA (BECA)	
	DE/SPEC: RESP ENG DAVE MITLAND (BSL) REGN APPR: JASON KOLSKY (BSL)		DE/SPEC: RESP ENG DAVE MITLAND (BSL) REGN APPR: JASON KOLSKY (BSL)		DE/SPEC: RESP ENG DAVE MITLAND (BSL) REGN APPR: JASON KOLSKY (BSL)		DE/SPEC: RESP ENG DAVE MITLAND (BSL) REGN APPR: JASON KOLSKY (BSL)			DE/SPEC: RESP ENG DAVE MITLAND (BSL) REGN APPR: JASON KOLSKY (BSL)		DE/SPEC: RESP ENG DAVE MITLAND (BSL) REGN APPR: JASON KOLSKY (BSL)		DE/SPEC: RESP ENG DAVE MITLAND (BSL) REGN APPR: JASON KOLSKY (BSL)			DE/SPEC: RESP ENG DAVE MITLAND (BSL) REGN APPR: JASON KOLSKY (BSL)		DE/SPEC: RESP ENG DAVE MITLAND (BSL) REGN APPR: JASON KOLSKY (BSL)	



Existing Steam Turbine Brown Boveri Type DQ 38B Serial 33210


New Turbo Alternator, TOSHIBA TAF-RCC TGA32A00 18000KVA 2P 6600V 3PH 50HZ

Operating Floor
RL 144' (4389mm)

Existing concrete foundation block

Ground Floor
RL 120' (36576mm)

A
SCALE 1 : 25

DATE		PROJECT/WBS No		CHANGE APPROVAL No		FUNCTIONAL LOCATION CODES PK22-BA23		 <div>Port Kembla Steelworks</div>		This design is the property of BlueScope Steel (AIS) Pty Ltd. ABN 19 000 019 625 TITLEBLOCK TO COMPLY WITH SP-ENG-DES-196, VERSION CURRENT AT "DATE DRN"		B1		CHANGE APPROVAL NUMBER:		PROJECT/WBS No		PKC-04445					
DRAWING STATUS:						DRAWN		CHECKED		INDEX CODES L1-54		DRAWING PRODUCED BY:		No.2 Blower Station No.23 Turbo Alternator General Council Development Application General Arrangement		DRAWN		CHECKED		DISC ENGINEER OR SPECIALIST			
																Murray Dunne		Pablo Danetto		DISC ENGINEER OR SPECIALIST			
																DISC ENGINEER OR SPECIALIST		RESPONSIBLE ENGINEER		REGISTRATION APPROVAL			
																Murray Dunne		Murray Dunne					
D/No, CONT. NAME & REF No:						D/No		CONT. NAME & REF No:		DISC ENGINEER OR SPECIALIST		SUPERVISOR		INVENTOR FILE NAME: DA001.dwg		DATE DRAWN 06/07/2023		DRAWING No:		DA001		REV No	
DES/SPEC:						DES/SPEC:		DES/SPEC:		REFERENCE DRAWINGS 54/8646		ORDER No:		CONTRACTOR/SUPPLIER REF No:		SCALE As Shown		DRAWING STATUS:		PRELIMINARY - FOR DEVELOPMENT APPROVALS		A	

FULL SIZE 0 50 100 150 200 250 300