



7 March 2023

Marcus Peck
Senior Project Officer
Office of the Coordinator-General
PO Box 15517
CITY EAST QLD 4002

Email: Marcus.peck@coordinatorgeneral.qld.gov.au

Dear Mr Peck

REFERRAL ENTITY SUBMISSION – WITH ADVICE – CHANGE APPLICATION FOR AN SDA APPROVAL – MCU FOR MATERIAL TRANSPORT INFRASTRUCTURE FACILITY IN THE GSDA APC2021/011

(GIVEN UNDER SCHEDULE 2, S2, GLADSTONE STATE DEVELOPMENT AREA DEVELOPMENT SCHEME 2022)

1. Application Details

The development application was referred to the Gladstone Ports Corporation Limited under Schedule 2, Section 2 on **28 November 2022**.

Application Number:	APC2021/011
Applicant Name:	Zone Planning Group on behalf of Rio Tinto Aluminium Yarwun
Application Contact Details:	Office of the Coordinator General C/- Marcus Peck Senior Projects Officer PO Box 15517 CITY EAST QLD 4002 Email: Marcus.peck@coordinatorgeneral.qld.gov.au
Approval Sought (GSDA)	Change Application for an SDA approval for a material change of use for material transport infrastructure and infrastructure facility in the Gladstone State Development Area (SDA) (mudline replacement).
Details of Proposed Development:	Amend the existing approval for the pipeline corridor (mudline) to facilitate the relocation of the pipeline aboveground at Calliope River Road crossing, adjacent to the Gladstone Mount

	Larcom Road, North-Coast Rail Line and Yarwun Mount Larcom Road crossing
Location Street Address:	Yarwun
Location Real Property Description:	Lot 7 SP145439, Lot 79 CP911258, Lot 21 SP115224, Lot 54 SP137048, Lot 23 SP115225, Lot 7 SP177782, Lot 1 RP911260, Lot 13 RP620157, Lot 27 SP 115227 and Lot 20 SP115224
Land Owner:	Gladstone Ports Corporation Limited
GSDA Precincts:	Material Transportation and Services Corridor Precinct

2. Description of Proposed Development

This development application is to amend the existing approval for the pipeline corridor (mudline) which was approved by the Coordinator-General on 20 July 2010. This change application is to facilitate the relocation of the pipeline aboveground at Calliope River Road crossing, adjacent to the Gladstone Mount Larcom Road, North-Coast Rail Line and Yarwun Mount Larcom Road crossing.

3. Referral Triggers

This development application was referred to the Gladstone Ports Corporation Limited under the following provisions of the *Gladstone State Development Area Development Scheme May 2022*:

Referral trigger: Schedule 2, section 2.2 referral stage – Request for referral entity to assess the application and provide a referral entity submission.

4. Details of Referral Entity Submission

The Gladstone Ports Corporation Limited advises the Coordinator-General, under schedule 2, section 2 of the *Gladstone State Development Area Development Scheme 2022* to give any development approval subject to development conditions stated in Attachment 1.

For further information please contact Trudi Smith, Planning Specialist on 07 4976 1314 or via email planning@gpcl.com.au.

Yours sincerely



Craig Haymes
Chief Executive Officer

Enc. Attachment 1: Referral Entity Conditions
Attachment 2: Referral Entity Advice

Attachment 1: Referral Entity Conditions

1. Development must be carried out generally in accordance with the Approved plans, except where modified by conditions.
2. The development must be appropriately designed and constructed to mitigate potential adverse impacts to port operations, services and facilities.
3. Prior to the completion of the works, the proponent must supply the Referral Entity (Gladstone Ports Corporation [GPC]) with RPEQ certified "As Constructed" plans in both hard copy (2 of) and electronic (CAD format) which illustrate all infrastructure and services installed on, under or over Port land associated with the activity. The drawings must be submitted to the Planning Team via planning@gpcl.com.au, including reference to 'RR2022/008/01'.
4. Upon completion of the construction works, the proponent must reinstate the property to the same condition prior to the works being undertaken unless agreed to in writing by the Assessment Manager.
5. A Deed of Variation between the Grantor (GPC) and the Grantee (Rio Tinto) relating to bonding of works for the removal of surplus pipeline is to be entered into prior to commencement of works on-site.
6. Unless otherwise agreed to in writing with the Referral Entity (GPC) the redundant pipes are to be removed.
7. To provide efficient port facilities and services, the 'future' pipelines (3 in total) identified on the Piping Elevation Plans are to allow for additional port user infrastructure.
8. The applicant must notify the Referral Entity (GPC) of damage caused to any port or port user infrastructure or services including, but not limited to, security related devices, buildings, fences, lighting etc., roads, walkways and underground services or infrastructure, as a result of the works during construction. The proponent must undertake necessary repairs at their expense and to the satisfaction of the Referral Entity (GPC).
9. The proponent is required to apply for and obtain from the Referral Entity (GPC) a Permit to Dig/Excavate prior to commencing works by contacting, Port Infrastructure Asset Manager on (07) 4976 1333. All reasonable measures must be taken to identify and protect existing services recorded or otherwise, and where necessary the proponent will submit a plan to the Referral Entity (GPC) for approval to adjust any existing services found during this excavation that was not originally shown on the proposed plans
10. In the event acid sulphate soils are disturbed/excavated and require treatment on site, a site specific Acid Sulphate Management Plan must be submitted to the Referral Entity (GPC) for approval prior to such works commencing. Once the management plan is approved, the works must be carried out in accordance with this plan.
11. A Construction Environmental Management Plan is to be provided at least 20 business days prior to construction works commencing. The Construction Environmental Management Plan (CEMP) is to be submitted to the Referral Entity (GPC) for approval, specific to the development that ensures:
 - i. environmental risks are identified, managed and continually assessed; and
 - ii. that staff are trained and aware of their obligations under the CEMP, including a copy of the management plan and development approval available on site at all times; and
 - iii. that reviews of environmental performance are undertaken at least annually; and

- iv. any amendments to the CEMP are to be submitted to the Referral Entity (GPC) for review and approval; and
- v. any rehabilitation and decommissioning works where required.

Once approved by the Referral Entity (GPC), the construction of the approved development must be carried out in accordance with this CEMP.

Note: GPC has a guideline for the development of environmental management plans that may be utilised in meeting the requirements of this condition.

Incident notification

12. Gladstone Ports Corporation Environment Hotline (07) 4976 1617 is to be notified of the occurrence of any:
 - i. release / spill of contaminants (e.g. fuels / chemicals / sewerage) greater than 20L to land;
 - ii. release / spill of contaminants (e.g. fuels / chemicals / sewerage) of any amount to water; any environmental complaints received by the holder of this approval; and
 - iii. non-compliance with conditions of this approval or any other environmental approval obtained in relation to the development.
13. Prior to construction works commencing on site, a final Construction Traffic Management Plan (CTMP) specific to the construction works being undertaken must be submitted to the Referral Entity (GPC) for approval. The CTMP must provide appropriate continued safe vehicle access to the Strategic Port Land within the Material Transfer Infrastructure Corridor. All activities associated with construction must be carried out in accordance with the approved CTMP.

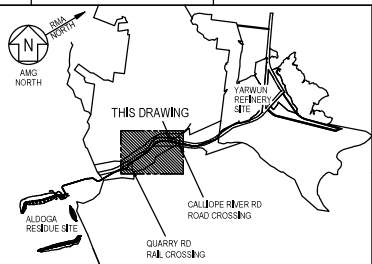
Attachment 2: Referral Entity Advice

- A. Relevant tenure arrangements are to be formalised with Gladstone Port's Corporation Limited's Property team for any parts of these approved works that are outside of the existing tenure arrangements i.e. proposed laydown areas. Where a construction compound or laydown area is required, the proponent or their contractor is required to apply for and obtain suitable tenure arrangements from the Referral Entity (GPC) Property Specialist via 07 4976 1334 or property@gpcl.com.au prior to works commencing.
- B. All other relevant approvals must be obtained before commencement of the development.
- C. The *Environmental Protection Act* 1994 states that a person must not carry out any activity that causes, or is likely to cause, environmental harm unless the person takes all reasonable and practicable measures to prevent or minimise the harm. Environmental harm includes environmental nuisance. In this regard persons and entities, involved in the civil, earthworks, construction, and operational phases of this development, are to adhere to their 'general environmental duty' to minimise the risk of causing environmental harm.
- D. Where the Applicant is required to submit further documentation to the Referral Entity, this is to be directed to the Planning section at planning@gpcl.com.au, including reference to the allocated referral response number RR2022/008/01.
- E. Where a Permit to Dig/Excavate prior to commencing excavation or digging for the development, the proponent or their contractor is required to apply for and obtain the permit by contacting the Port Infrastructure Asset Manager on 4976 1332 or bartono@gpcl.com.au.



AMG NORTH

RMA PLANT NORTH

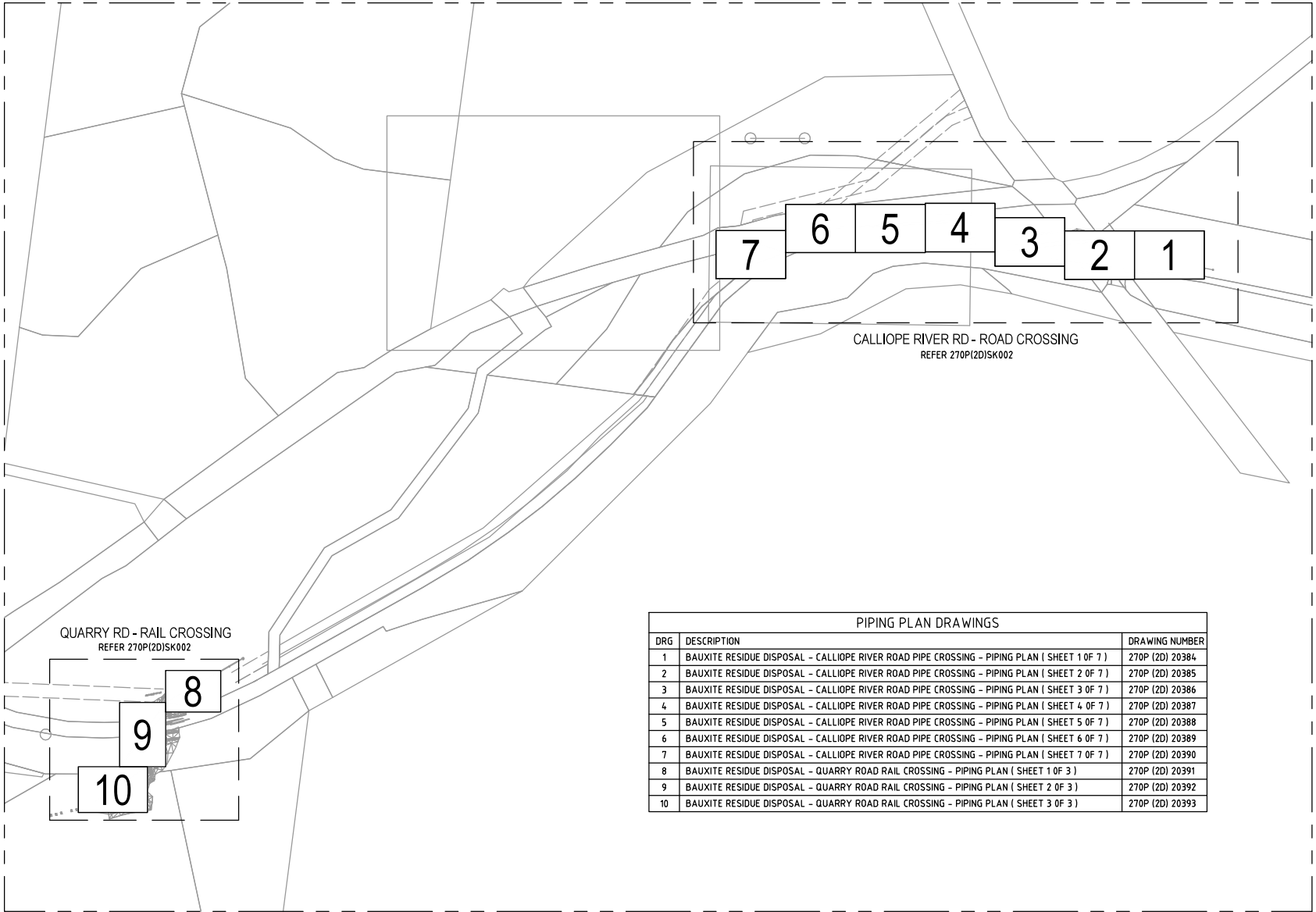


LOCATION PLAN (NTS)



APPROVED

Name: Trudi Smith
Date: 10:48am 01/03/2023



PROJECT AREA LIMITS

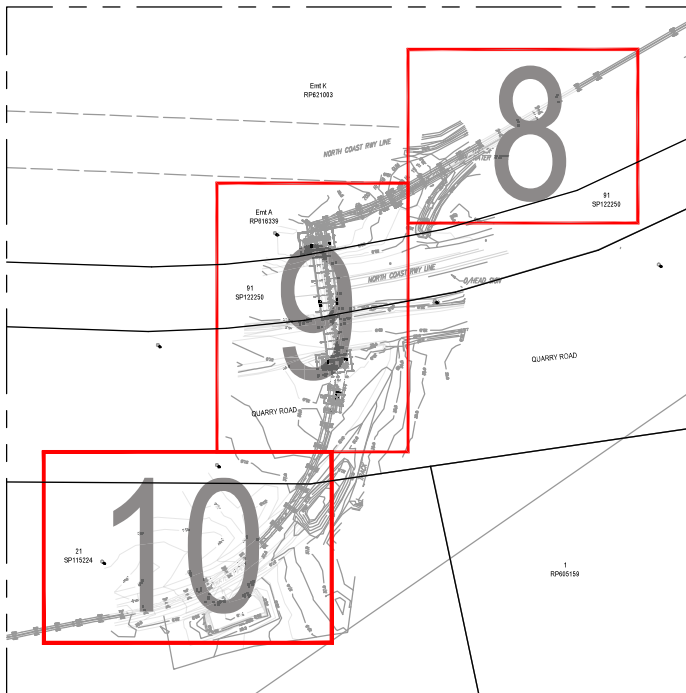
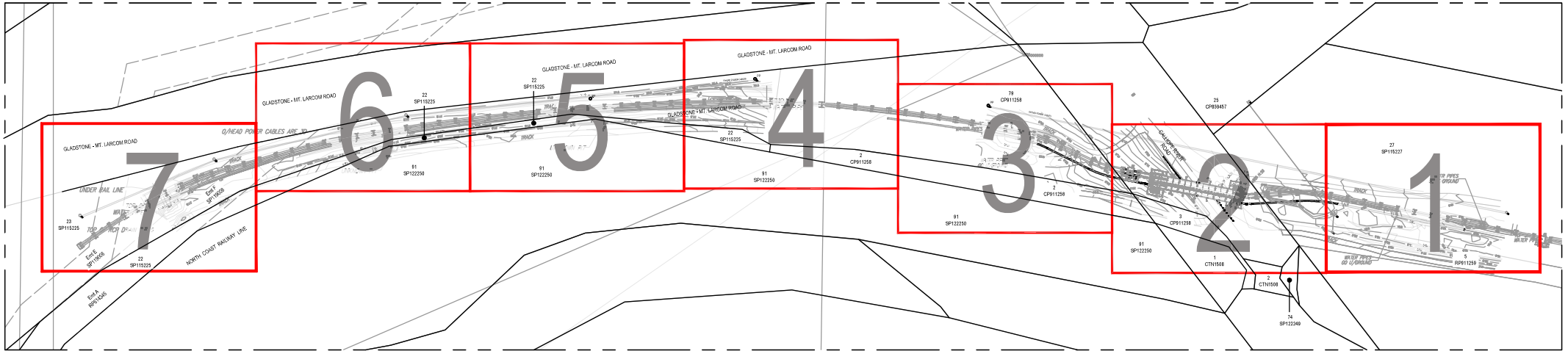
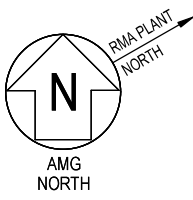
CALLOPE RIVER RD - ROAD CROSSING
REFER 270P(2)DISK002

QUARRY RD - RAIL CROSSING
REFER 270P(2)DISK002

PIPING PLAN DRAWINGS		
DRG	DESCRIPTION	DRAWING NUMBER
1	BAUXITE RESIDUE DISPOSAL - CALLOPE RIVER ROAD PIPE CROSSING - PIPING PLAN (SHEET 1 OF 7)	270P (2D) 20384
2	BAUXITE RESIDUE DISPOSAL - CALLOPE RIVER ROAD PIPE CROSSING - PIPING PLAN (SHEET 2 OF 7)	270P (2D) 20385
3	BAUXITE RESIDUE DISPOSAL - CALLOPE RIVER ROAD PIPE CROSSING - PIPING PLAN (SHEET 3 OF 7)	270P (2D) 20386
4	BAUXITE RESIDUE DISPOSAL - CALLOPE RIVER ROAD PIPE CROSSING - PIPING PLAN (SHEET 4 OF 7)	270P (2D) 20387
5	BAUXITE RESIDUE DISPOSAL - CALLOPE RIVER ROAD PIPE CROSSING - PIPING PLAN (SHEET 5 OF 7)	270P (2D) 20388
6	BAUXITE RESIDUE DISPOSAL - CALLOPE RIVER ROAD PIPE CROSSING - PIPING PLAN (SHEET 6 OF 7)	270P (2D) 20389
7	BAUXITE RESIDUE DISPOSAL - CALLOPE RIVER ROAD PIPE CROSSING - PIPING PLAN (SHEET 7 OF 7)	270P (2D) 20390
8	BAUXITE RESIDUE DISPOSAL - QUARRY ROAD RAIL CROSSING - PIPING PLAN (SHEET 1 OF 3)	270P (2D) 20391
9	BAUXITE RESIDUE DISPOSAL - QUARRY ROAD RAIL CROSSING - PIPING PLAN (SHEET 2 OF 3)	270P (2D) 20392
10	BAUXITE RESIDUE DISPOSAL - QUARRY ROAD RAIL CROSSING - PIPING PLAN (SHEET 3 OF 3)	270P (2D) 20393

REFERENCE DRAWINGS											
DATE	REV	DESCRIPTION	DATE	REV	DESCRIPTION	DATE	REV	DESCRIPTION	DATE	REV	DESCRIPTION

<p>TITLE BAUXITE RESIDUE DISPOSAL P2- MUDLINE REPLACEMENT PIPING DRAWINGS KEY PLAN</p>			
SCALE NTS		DRAWING NUMBER 270P(2)SK001	SHEET A1 OF E01



DATE	REV	REVISION RECORD	DRN	CHKD	DEPCD	DEPENDENCY

DATE	REV	DESCRIPTION	DATE	BY	DATE	BY	DATE	BY

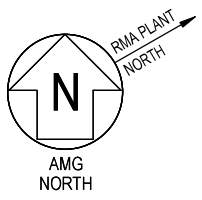


RioTinto

FILE

BAUXITE RESIDUE DISPOSAL
P2- MUDLINE REPLACEMENT
PIPING DRAWINGS OVERALL PLAN

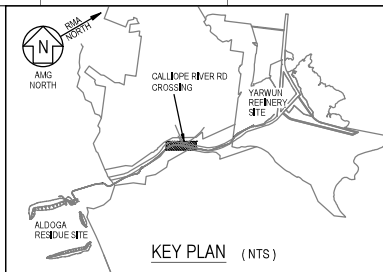
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NTS	270P(2D)SK002	A1	E01



UNDERGROUND SERVICES

FOR UNDERGROUND SERVICES IN THIS AREA REFER TO DRAWING NUMBER 270P(2D)20214 : RESIDUE DISPOSAL PIPELINES - ALIGNMENT SHT 12 OF 18

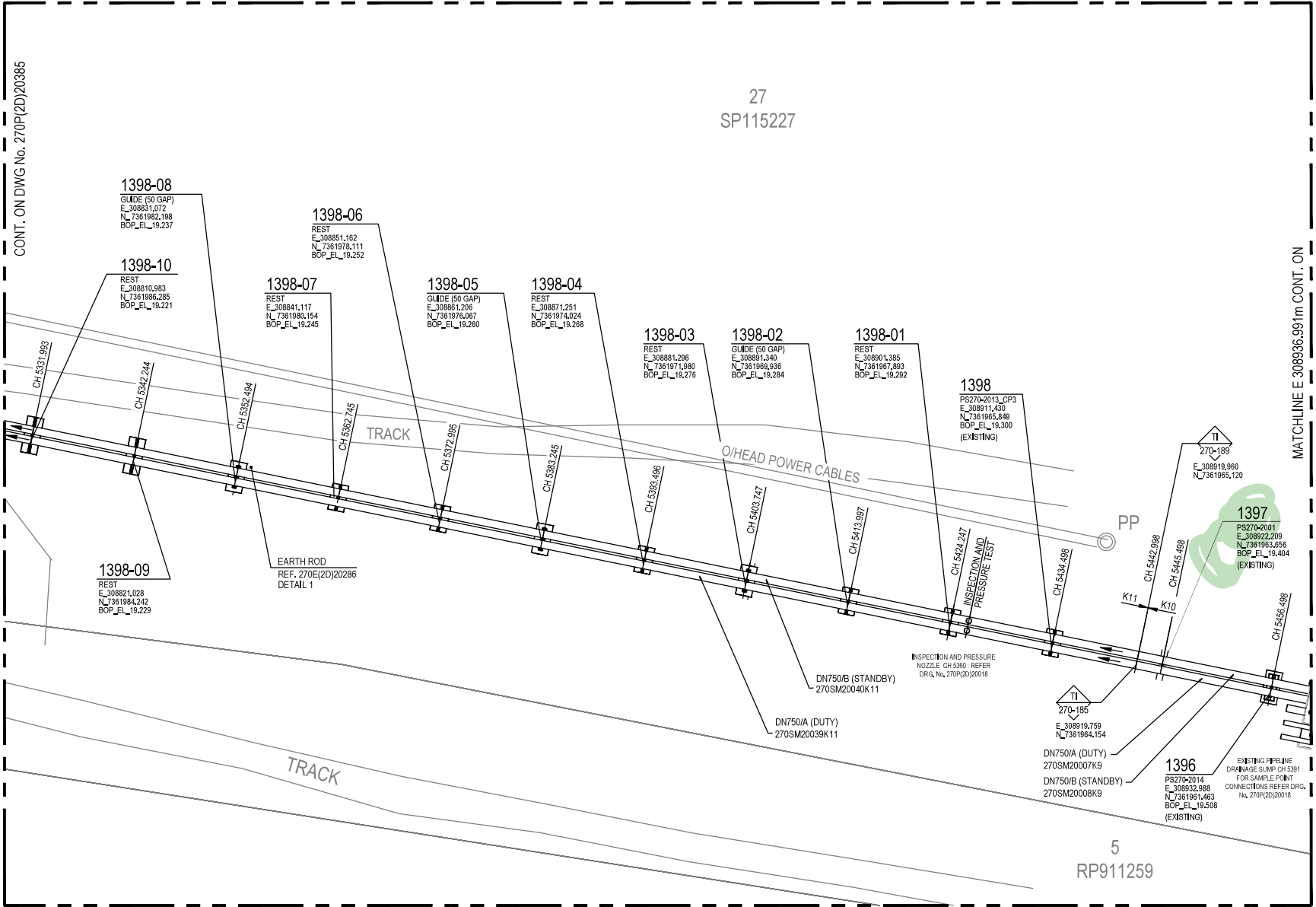
PRIOR TO ANY EXCAVATION OR CONSTRUCTION THE EXACT LOCATION OF ANY UNDERGROUND SERVICES SHOULD BE VERIFIED ON SITE FIRST.



DRAWING AREA LIMIT

MATCHLINE E 308808.347 m
CONT. ON DWG No. 270P(2D)20385

MATCHLINE E 308936.891m CONT. ON
EXISTING ALIGNMENT DRAWING No. 270P(2D)20214



NOTES -

- ALL COORDINATES ARE TO AMG. IN METRES.
- ALL LEVELS ARE TO A.H.D. IN METRES.
- ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- PRECINCT BOUNDARIES ARE INDICATIVE ONLY AND MAY NOT REPRESENT THEIR TRUE LOCATIONS.
- PIPE MATERIAL SPECIFICATION K11, DN750 SCHEDULE 30, API 5L GR.X42 PSL-1.
- ALL HORIZONTAL AND VERTICAL BENDS VIA 270 OLC R=500 M SHALL BE INCREMENTALLY NOTCH-FORMED WITH AN APPROVED PROPRIETARY HYDRAULIC PIPE BENDER AND MANDREL.
- ALL HORIZONTAL & VERTICAL BENDS R > 500 SHALL BE ROPE PULLED, ROPE PULLING SHALL BE LIMITED TO PREVENT EXCESSIVE RESIDUAL STRESSES AT HORIZONTAL BENDS.
- SET OUT COORDINATES AT PIPE SUPPORTS ARE IDENTIFIED ON THE DN750 "DUTY" SLURRY PIPELINE 270SM20039K11 PER THE CONTROL SURVEY. THE SET OUT COORDINATES FOR NEW SUPPORTS ARE AS PER THE STRUCTURAL DRAWINGS.
- PIPE BENDS AT BRIDGE LOCATIONS SHALL BE MINIMUM SD. TO ALLOW FOR PICKING OPERATIONS, AND MUST HAVE A MINIMUM 1.5M TANGENT LENGTH. MINIMUM THICKNESS AT EXTRADOS SHALL BE 16.88MM.
- PIPE SUPPORT SHALL BE INSTALLED AS PERPENDICULAR AS POSSIBLE IN RESPECT TO THE LINE PAST THROUGH CENTRE OF DUTY AND STAND-BY LINES.
- CHAINAGE 0.000 = RMA (NOT THE REFINERY)

APPROVED FOR CONSTRUCTION

270P(2D)20183	RESIDUE DISPOSAL - DN750 PIPELINES - PIPE SUPPORT SCHEDULE
270P(2D)20182	RESIDUE DISPOSAL - DN750 PIPELINES - PIPE SUPPORT DETAILS SHEET 2
270P(2D)20181	RESIDUE DISPOSAL - DN750 PIPELINES - PIPE SUPPORT DETAILS SHEET 1
270P(2D)20385	RESIDUE DISPOSAL - CALLIOPE RIVER RD CROSSING - SHEET 2
270P(2D)20214	RESIDUE DISPOSAL PIPELINES - HORIZONTAL ALIGNMENT - SHEET 12 OF 18

DATE		REV		ISSUED FOR CONSTRUCTION		RPD	MMJ	MAJ	AP	AO
DATE		REV		REVISION RECORD		DRN	CHD	RPD	DRN	DRN
2003/02/22	001			ISSUED FOR CONSTRUCTION						

DRAWN BY	DATE	CHARGE RECORD NUMBER	4897
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ALJOHNSON	14/04/2002	RTY SUPERVISOR	26/04/2002

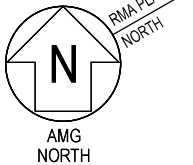


TITLE
BAUXITE RESIDUE DISPOSAL
CALLIOPE RIVER ROAD PIPE CROSSING
PIPING PLAN (SHEET 1 OF 7)

SCALE	DRAWING NUMBER	SHEET	REVISION
1:200	270P(2D)20384	A1	C01



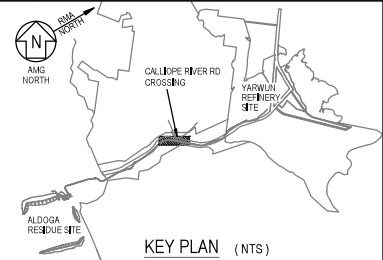
PIPING PLAN



UNDERGROUND SERVICES

FOR UNDERGROUND SERVICES IN THIS AREA REFER TO DRAWING NUMBER 270P(2D)20214 ; RESIDUE DISPOSAL PIPELINES - ALIGNMENT SHT 12 OF 18

PRIOR TO ANY EXCAVATION OR CONSTRUCTION THE EXACT LOCATION OF ANY UNDERGROUND SERVICES SHOULD BE VERIFIED ON SITE FIRST.



NOTES -

1. REFER TO NOTES ON 270P(2D)20384.



APPROVED FOR CONSTRUCTION

270S(2D)20183	RESIDUE DISPOSAL - DN750 PIPELINES - PIPE SUPPORT SCHEDULE
270S(2D)20182	RESIDUE DISPOSAL - DN750 PIPELINES - PIPE SUPPORT DETAILS SHEET 2
270S(2D)20181	RESIDUE DISPOSAL - DN750 PIPELINES - PIPE SUPPORT DETAILS SHEET 1
270P(2D)20384	RESIDUE DISPOSAL - CALLIOPE RIVER RD CROSSING - PIPING SECTIONS
270P(2D)20385	RESIDUE DISPOSAL - CALLIOPE RIVER RD CROSSING - SHEET 3
270P(2D)20384	RESIDUE DISPOSAL - CALLIOPE RIVER RD CROSSING - SHEET 1
270P(2D)20214	RESIDUE DISPOSAL PIPELINES - HORIZONTAL ALIGNMENT - SHEET 12 OF 18

DATE	REV	REVISION RECORD	RPD (M/J)	MA/J	AP	AO
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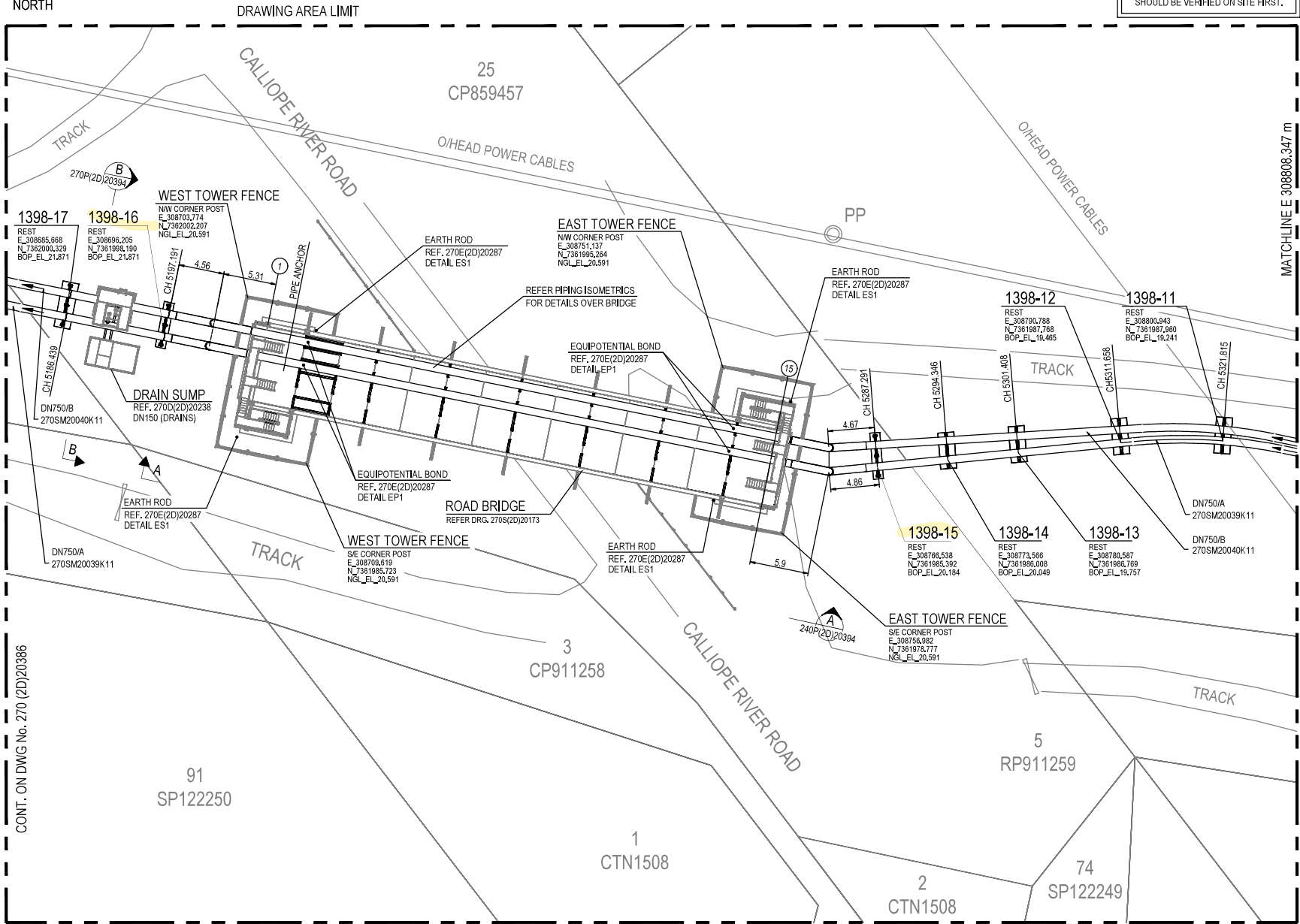
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DATE	08/04/2022	RTY PROJECT ENGINEER	APOTEMETER	DATE 21/04/2022
DATE	08/04/2022	RTY LEAD ENGINEER	ACAVANAGH	DATE 22/04/2022
DATE	14/04/2022	RTY ENGINEER	AGRELL	DATE 26/04/2022



TITLE

BAUXITE RESIDUE DISPOSAL
CALLIOPE RIVER ROAD PIPE CROSSING
PIPING PLAN (SHEET 2 OF 7)

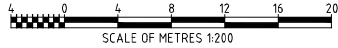
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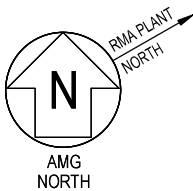


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CONT. ON DWG No. 270P(2D)20384

PIPING PLAN

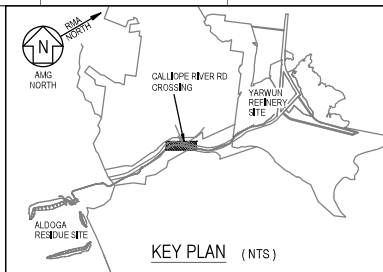




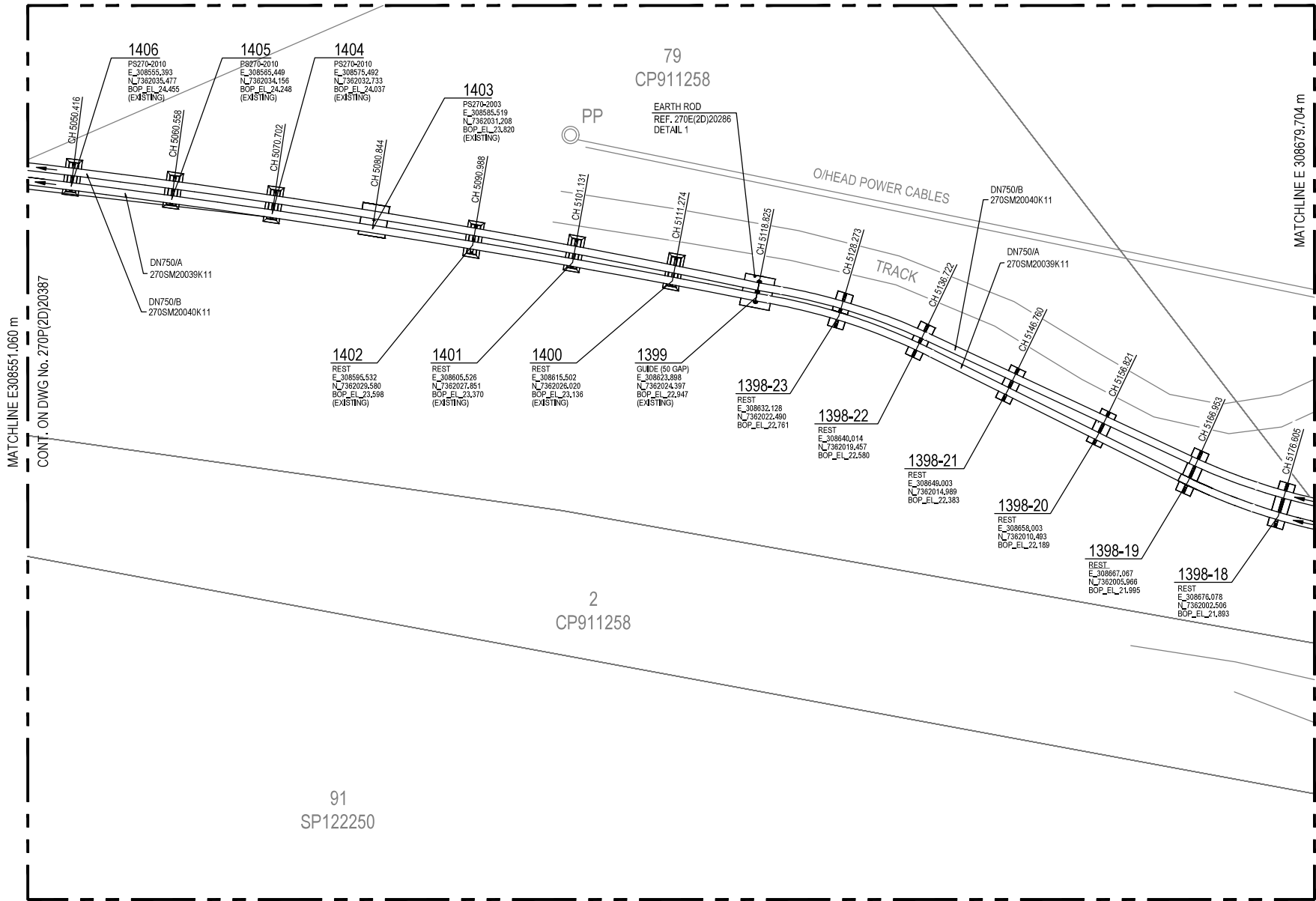
UNDERGROUND SERVICES

FOR UNDERGROUND SERVICES IN THIS AREA REFER TO DRAWING NUMBER 270P(2D)20214 : RESIDUE DISPOSAL PIPELINES - ALIGNMENT SHT 12 OF 18

PRIOR TO ANY EXCAVATION OR CONSTRUCTION THE EXACT LOCATION OF ANY UNDERGROUND SERVICES SHOULD BE VERIFIED ON SITE FIRST.



DRAWING AREA LIMIT



DRAWING AREA LIMIT

PIPING PLAN

NOTES -

1. REFER TO NOTES ON 270P(2D)20384.



APPROVED FOR CONSTRUCTION

DATE	REV	REVISION RECORD	DRN	CHKD	PREP	DEPENDENCY
27/05/2020	183	RESIDUE DISPOSAL - DN750 PIPELINES - PIPE SUPPORT SCHEDULE				
27/05/2020	182	RESIDUE DISPOSAL - DN750 PIPELINES - PIPE SUPPORT DETAILS SHEET 2				
27/05/2020	181	RESIDUE DISPOSAL - DN750 PIPELINES - PIPE SUPPORT DETAILS SHEET 1				
27/0P(2D)20387		RESIDUE DISPOSAL - CALLOPE RIVER RD CROSSING - SHEET 4				
27/0P(2D)20385		RESIDUE DISPOSAL - CALLOPE RIVER RD CROSSING - SHEET 2				
27/0P(2D)20214		RESIDUE DISPOSAL PIPELINES - HORIZONTAL ALIGNMENT - SHEET 12 OF 18				

DATE	REV	ISSUED FOR CONSTRUCTION	RPD	MMJ	MAJ	AP	AO
20/03/2022	001	ISSUED FOR CONSTRUCTION					

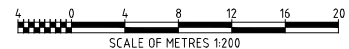
DRAWN BY	DATE	DATE	DATE	DATE	DATE	DATE	DATE
ALJ/FFIELD	20/03/2022	08/04/2022	08/04/2022	14/04/2022	21/04/2022	22/04/2022	26/04/2022



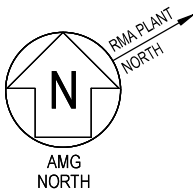
TITLE

BAUXITE RESIDUE DISPOSAL
CALLOPE RIVER ROAD PIPE CROSSING
PIPING PLAN (SHEET 3 OF 7)

SCALE	DRAWING NUMBER	SHEET	REVISION
1:200	270P(2D)20386	A1	C01



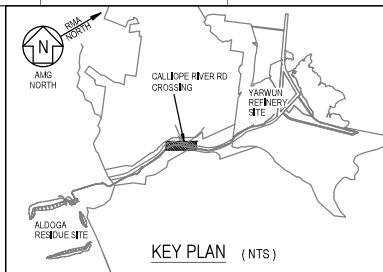
SCALE OF METRES 1:200



UNDERGROUND SERVICES

FOR UNDERGROUND SERVICES IN THIS AREA REFER TO DRAWING NUMBER 270P(2D)20213 : RESIDUE DISPOSAL PIPELINES - ALIGNMENT SHT 11 OF 18

PRIOR TO ANY EXCAVATION OR CONSTRUCTION THE EXACT LOCATION OF ANY UNDERGROUND SERVICES SHOULD BE VERIFIED ON SITE FIRST.

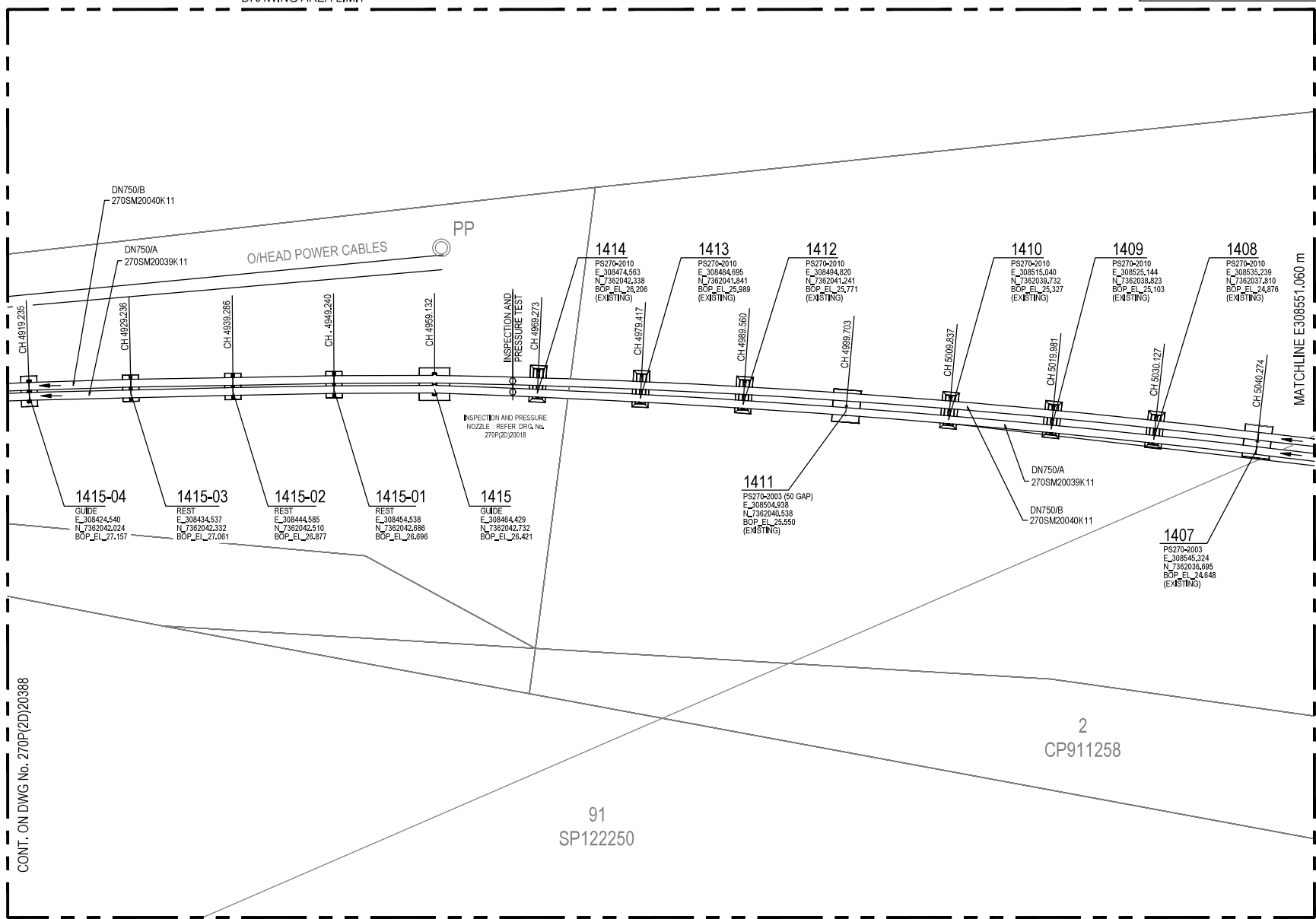


NOTES -

1. REFER TO NOTES ON 270P(2D)20384.



APPROVED FOR CONSTRUCTION



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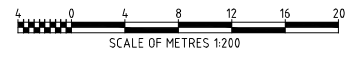
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91
SP122250

2
CP911258

DRAWING AREA LIMIT

PIPING PLAN



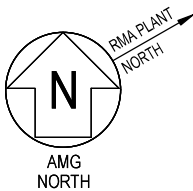
DATE	REV	ISSUED FOR CONSTRUCTION	RPD (M/J)	MAJ	AP	AO
270S(2D)20183		RESIDUE DISPOSAL - DN750 PIPELINES - PIPE SUPPORT SCHEDULE				
270S(2D)20182		RESIDUE DISPOSAL - DN750 PIPELINES - PIPE SUPPORT DETAILS SHEET 2				
270S(2D)20181		RESIDUE DISPOSAL - DN750 PIPELINES - PIPE SUPPORT DETAILS SHEET 1				
270P(2D)20388		RESIDUE DISPOSAL - CALLOPE RIVER RD CROSSING - SHEET 5				
270P(2D)20385		RESIDUE DISPOSAL - CALLOPE RIVER RD CROSSING - SHEET 3				
270P(2D)20213		RESIDUE DISPOSAL PIPELINES - HORIZONTAL ALIGNMENT - SHEET 11 OF 18				

REFERENCE DRAWINGS						
DATE	REV	ISSUED FOR CONSTRUCTION	RPD (M/J)	MAJ	AP	AO
20032022	001	ISSUED FOR CONSTRUCTION				

REVISION RECORD						
DATE	REV	ISSUED FOR CONSTRUCTION	RPD (M/J)	MAJ	AP	AO

DRAWN BY	DATE	DATE	DATE	DATE	DATE	DATE
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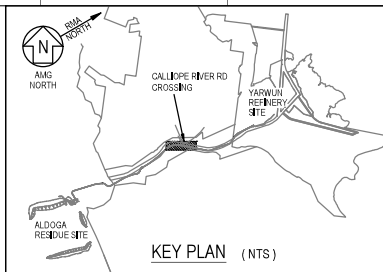
RioTinto		TITLE	
BAUXITE RESIDUE DISPOSAL		CALLIOPE RIVER ROAD PIPE CROSSING	
CALLIOPE RIVER ROAD PIPE CROSSING		PIPING PLAN (SHEET 4 OF 7)	
SCALE	1:200	DRAWING NUMBER	270P(2D)20387
SIZE	A1	REVISION	C01



UNDERGROUND SERVICES

FOR UNDERGROUND SERVICES IN THIS AREA REFER TO DRAWING NUMBER 270P(2D)20213 : RESIDUE DISPOSAL PIPELINES - ALIGNMENT SHT 11 OF 18

PRIOR TO ANY EXCAVATION OR CONSTRUCTION THE EXACT LOCATION OF ANY UNDERGROUND SERVICES SHOULD BE VERIFIED ON SITE FIRST.



NOTES -

1. REFER TO NOTES ON 270P(2D)20384.



APPROVED FOR CONSTRUCTION

270S(2D)20183	RESIDUE DISPOSAL - DN750 PIPELINES - PIPE SUPPORT SCHEDULE
270S(2D)20182	RESIDUE DISPOSAL - DN750 PIPELINES - PIPE SUPPORT DETAILS SHEET 2
270S(2D)20181	RESIDUE DISPOSAL - DN750 PIPELINES - PIPE SUPPORT DETAILS SHEET 1
270P(2D)20389	RESIDUE DISPOSAL - CALLOPE RIVER RD CROSSING - SHEET 6
270P(2D)20387	RESIDUE DISPOSAL - CALLOPE RIVER RD CROSSING - SHEET 4
270P(2D)20213	RESIDUE DISPOSAL PIPELINES - HORIZONTAL ALIGNMENT - SHEET 11 OF 18

DATE	REV	ISSUED FOR CONSTRUCTION	RPD (MM)	MAJ	AP	AO
20032022	001	ISSUED FOR CONSTRUCTION				

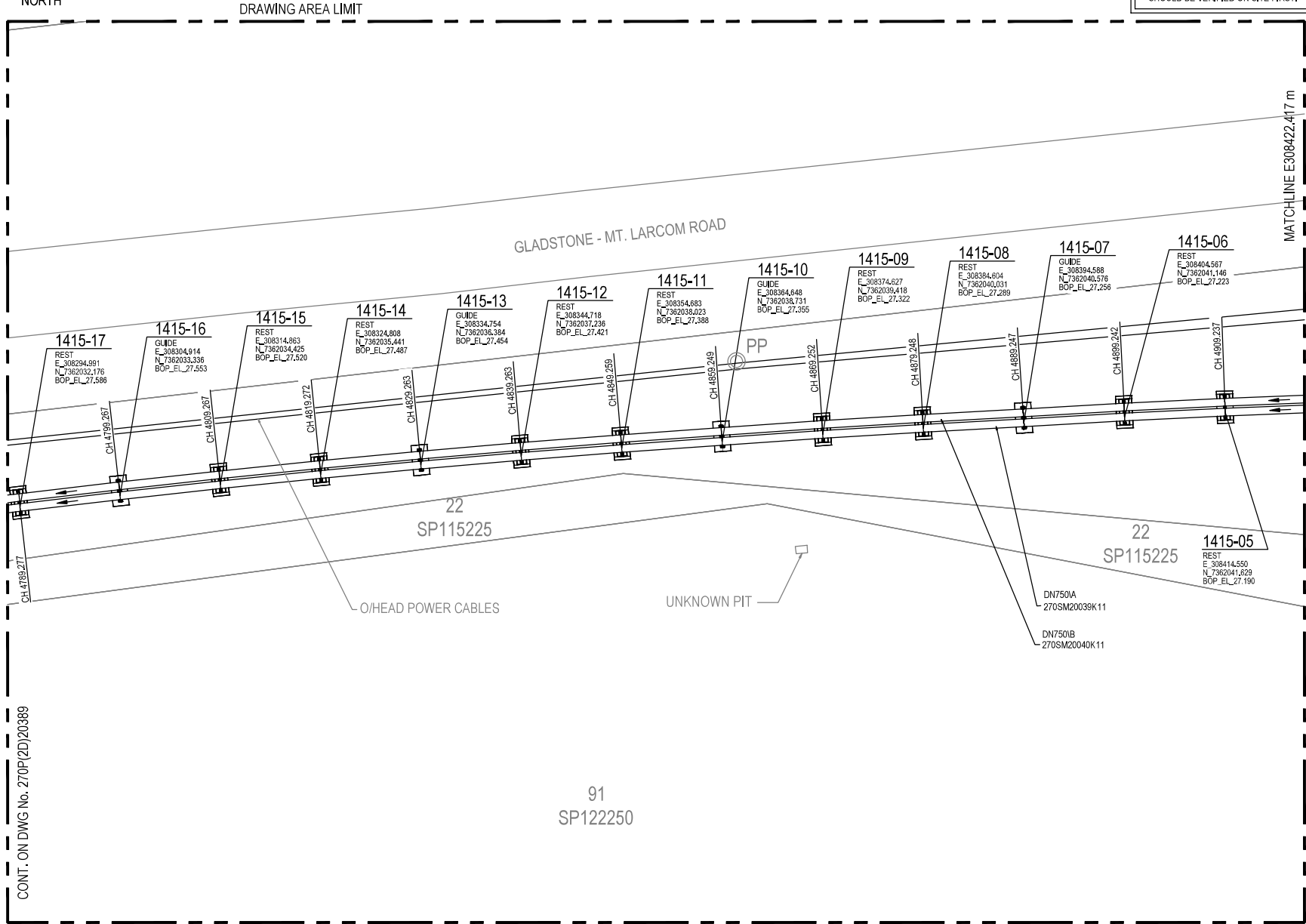
DRAWN BY	DATE	DATE	DATE	DATE	DATE	DATE
ALJOHNSON	08042022	08042022	08042022	08042022	08042022	08042022

RioTinto

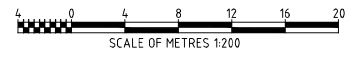
TITLE

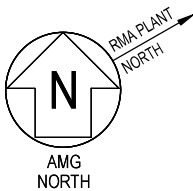
BAUXITE RESIDUE DISPOSAL
CALLOPE RIVER ROAD PIPE CROSSING
PIPING PLAN (SHEET 5 OF 7)

SCALE	DRAWING NUMBER	SHEET	REVISION
1:200	270P(2D)20388	A1	C01



PIPING PLAN

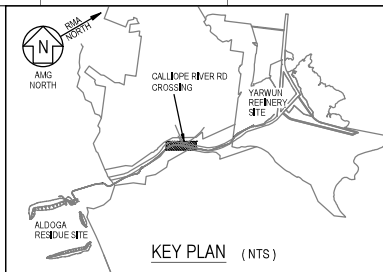




UNDERGROUND SERVICES

FOR UNDERGROUND SERVICES IN THIS AREA REFER TO DRAWING NUMBER 270P(2D)20213 : RESIDUE DISPOSAL PIPELINES - ALIGNMENT SHT 11 OF 18

PRIOR TO ANY EXCAVATION OR CONSTRUCTION THE EXACT LOCATION OF ANY UNDERGROUND SERVICES SHOULD BE VERIFIED ON SITE FIRST.



DRAWING AREA LIMIT

25
SP115226

EMT F
SP119066

WATER LINE (BURIED)

SLURRY LINE (BURIED)

GLADSTONE - MT. LARCOM ROAD

TELSTRA

O/H HEAD POWER CABLES

MATCHLINE E308165.129 m
CONT. ON DWG No. 270P(2D)20390

MATCHLINE E308293.773 m
CONT. ON DWG No. 270P(2D)20388

1415-30
REST
E_308167.810
N_7362007.572
BOP_EL_28.015

1415-29
GUIDE
E_308177.234
N_7362010.267
BOP_EL_27.992

1415-28
REST
E_308186.848
N_7362012.959
BOP_EL_27.949

1415-27
REST
E_308196.517
N_7362015.496
BOP_EL_27.916

1415-26
GUIDE
E_308206.237
N_7362017.822
BOP_EL_27.893

1415-25
REST
E_308215.989
N_7362019.966
BOP_EL_27.850

1415-24
REST
E_308225.791
N_7362021.909
BOP_EL_27.817

1415-23
GUIDE
E_308235.634
N_7362023.632
BOP_EL_27.784

1415-22
REST
E_308245.489
N_7362025.234
BOP_EL_27.751

1415-21
REST
E_308255.378
N_7362026.771
BOP_EL_27.718

1415-20
REST
E_308265.266
N_7362028.235
BOP_EL_27.685

1415-19
GUIDE
E_308275.165
N_7362029.625
BOP_EL_27.652

1415-18
REST
E_308285.073
N_7362030.937
BOP_EL_27.619

DN750A
270SM20039K11

DN750B
270SM20040K11

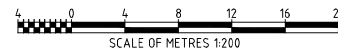
UNKNOWN PIT

91
SP122250

22
SP115225

DRAWING AREA LIMIT

PIPING PLAN



NOTES -

- REFER TO NOTES ON 270P(2D)20384.

APPROVED FOR CONSTRUCTION

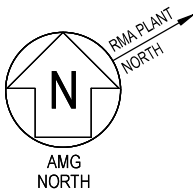
270S(2D)20183	RESIDUE DISPOSAL - DN750 PIPELINES - PIPE SUPPORT SCHEDULE
270S(2D)20182	RESIDUE DISPOSAL - DN750 PIPELINES - PIPE SUPPORT DETAILS SHEET 2
270S(2D)20181	RESIDUE DISPOSAL - DN750 PIPELINES - PIPE SUPPORT DETAILS SHEET 1
270P(2D)20390	RESIDUE DISPOSAL - CALLOPE RIVER RD CROSSING - SHEET 7
270P(2D)20389	RESIDUE DISPOSAL - CALLOPE RIVER RD CROSSING - SHEET 6
270P(2D)20213	RESIDUE DISPOSAL PIPELINES - HORIZONTAL ALIGNMENT - SHEET 11 OF 18

2003/2022		C01		ISSUED FOR CONSTRUCTION		RPD	MMJ	MAJ	AP	AO
DATE	REV	REVISION RECORD				DRN	CHKD	PRD	DENGD	ENDG
DRAWN BY	ALJOHNSON	DATE	2003/02/02	CHANGE RECORD NUMBER	4897					
DRAFT CHECKED	ALJOHNSON	DATE	08/04/2002	RTY PROJECT ENGINEER	ALJOHNSON	DATE	21/04/2002			
RFQ ENGINEER	ALJOHNSON	DATE	08/04/2002	RTY LEAD ENGINEER	ALJOHNSON	DATE	22/04/2002			
ENGINEER CHECKER	ALJOHNSON	DATE	14/04/2002	RTY ENGINEER	ALJOHNSON	DATE	20/04/2002			

RioTinto

TITLE
BAUXITE RESIDUE DISPOSAL
CALLOPE RIVER ROAD PIPE CROSSING
PIPING PLAN (SHEET 6 OF 7)

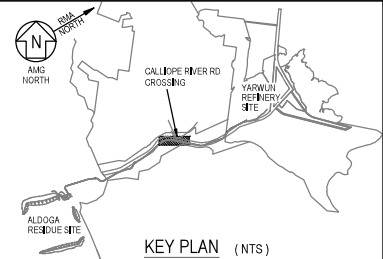
SCALE	1:200	DRAWING NUMBER	270P(2D)20389	SHEET	A1	REVISION	C01
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UNDERGROUND SERVICES

FOR UNDERGROUND SERVICES IN THIS AREA REFER TO DRAWING NUMBER 270P(2D)20212 ; RESIDUE DISPOSAL PIPELINES - ALIGNMENT SHT 10 OF 18

PRIOR TO ANY EXCAVATION OR CONSTRUCTION THE EXACT LOCATION OF ANY UNDERGROUND SERVICES SHOULD BE VERIFIED ON SITE FIRST.



NOTES -

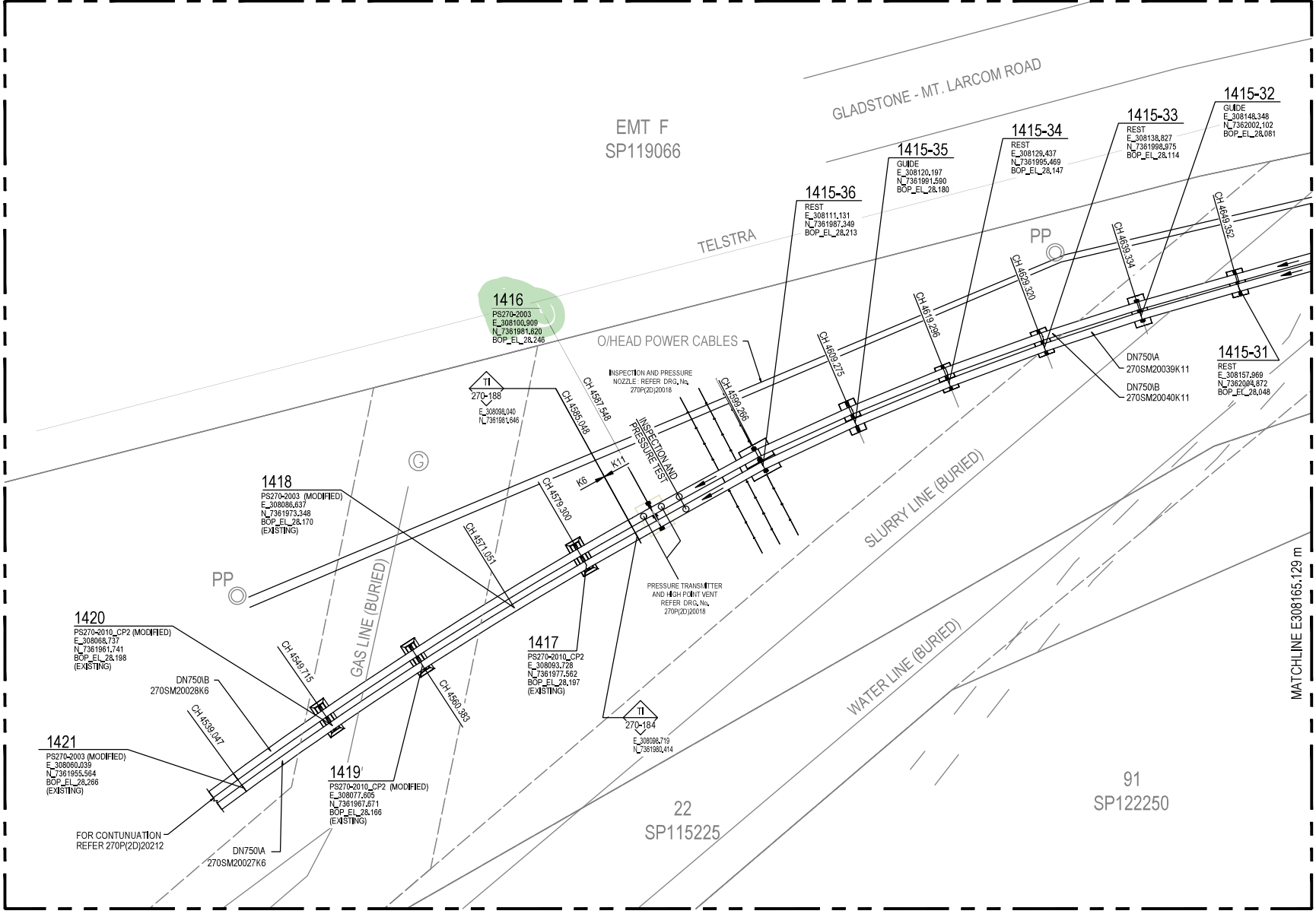
1. REFER TO NOTES ON 270P(2D)20384.



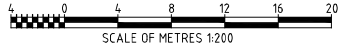
APPROVED FOR CONSTRUCTION

MATCHLINE E 308036.486m CONT. ON EXISTING ALIGNMENT DRAWING No. 270P(2D)20212

MATCHLINE E308165.129 m
CONT. ON DWG No. 270P(2D)20389



PIPING PLAN



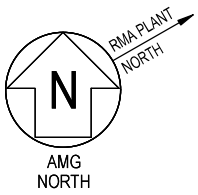
DATE	REV	ISSUED FOR CONSTRUCTION	RPD (MM)	MAJ	AP	AO
2003/02/22	001	ISSUED FOR CONSTRUCTION				

DATE	REV	REVISION RECORD	DRN (CHD)	RPD (DEPENDENCY)
27/05/2020	0183	RESIDUE DISPOSAL - DN750 PIPELINES - PIPE SUPPORT SCHEDULE		
27/05/2020	0182	RESIDUE DISPOSAL - DN750 PIPELINES - PIPE SUPPORT DETAILS SHEET 2		
27/05/2020	0181	RESIDUE DISPOSAL - DN750 PIPELINES - PIPE SUPPORT DETAILS SHEET 1		
27/06/2020	0389	RESIDUE DISPOSAL - CALLIOPE RIVER ROAD CROSSING - SHEET 6		
27/06/2020	0312	RESIDUE DISPOSAL PIPELINES - HORIZONTAL ALIGNMENT - SHEET 10 OF 18		

RioTinto

FILE
BAUXITE RESIDUE DISPOSAL
CALLIOPE RIVER ROAD PIPE CROSSING
PIPING PLAN (SHEET 7 OF 7)

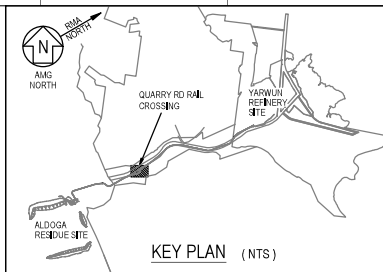
SCALE	3RD ANGLE PROJECTION	DRAWING NUMBER	SHEET	REVISION
1:200		270P(2D)20390	A1	C01



UNDERGROUND SERVICES

FOR UNDERGROUND SERVICES IN THIS AREA REFER TO DRAWING NUMBER 270P(2D)20209 : RESIDUE DISPOSAL PIPELINES - ALIGNMENT SHT 7 OF 18

PRIOR TO ANY EXCAVATION OR CONSTRUCTION THE EXACT LOCATION OF ANY UNDERGROUND SERVICES SHOULD BE VERIFIED ON SITE FIRST.



NOTES -

- REFER TO NOTES ON 270P(2D)20384.

APPROVED

Name: Trudi Smith
Date: 10:52am 01/03/2023

APPROVED FOR CONSTRUCTION

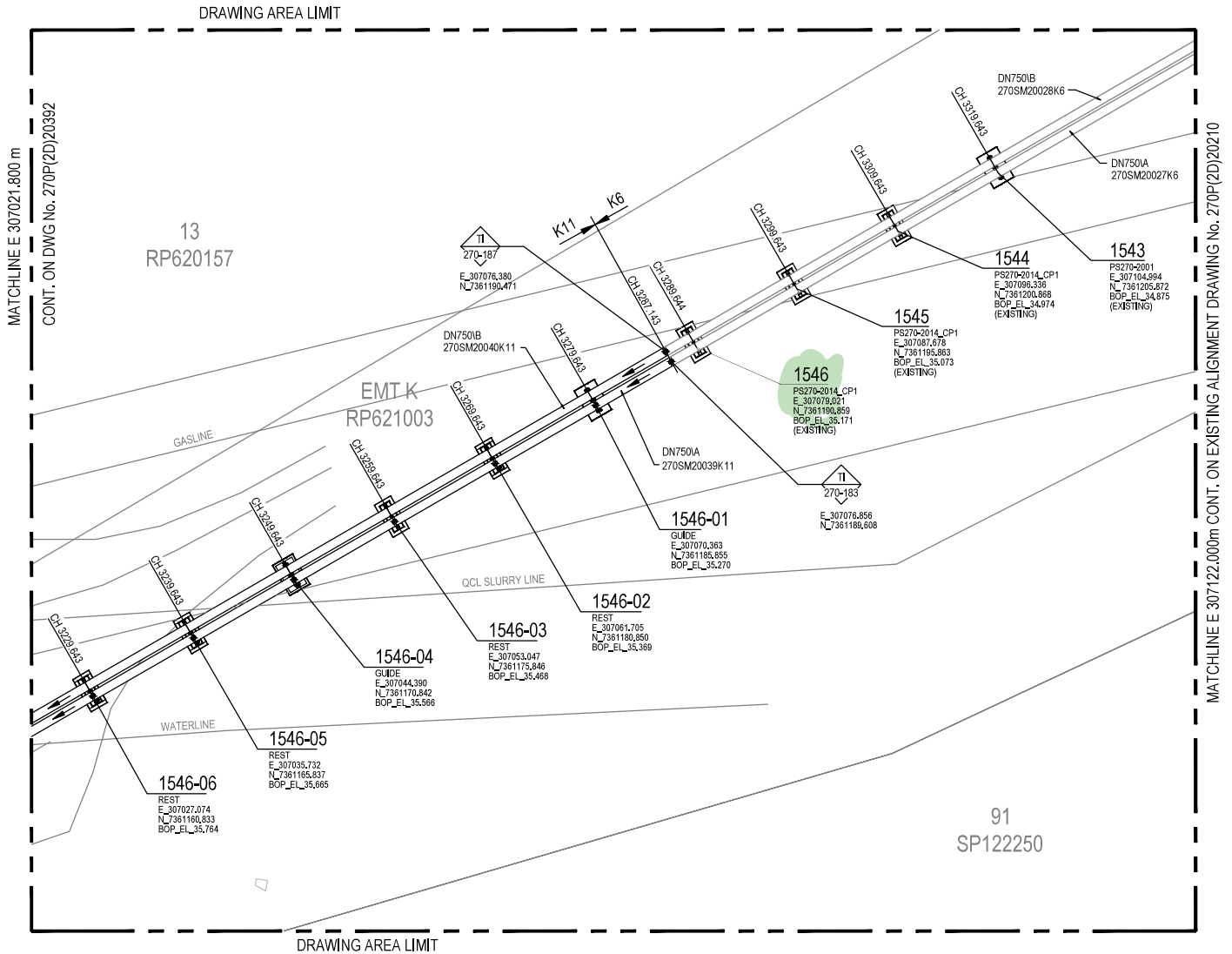
DATE	REV	REVISION RECORD	DRN (CHD)	RPD (MMJ)	MAJ	AP	AO
27/05/2020	001	ISSUED FOR CONSTRUCTION					

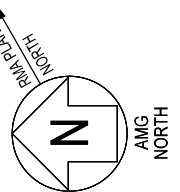
DATE	REV	REVISION RECORD	DRN (CHD)	RPD (MMJ)	MAJ	AP	AO
25/03/2022	001	ISSUED FOR CONSTRUCTION					

RioTinto

FILE
BAUXITE RESIDUE DISPOSAL
QUARRY ROAD RAIL CROSSING
PIPING PLAN (SHEET 1 OF 3)

SCALE	3RD ANGLE PROJECTION	DRAWING NUMBER	SHEET	REVISION
1:200		270P(2D)20391	A1	C01

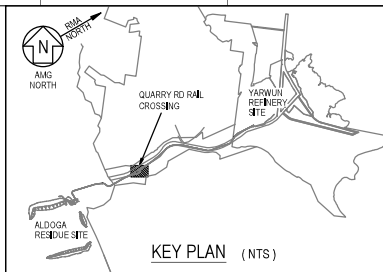




UNDERGROUND SERVICES

FOR UNDERGROUND SERVICES IN THIS AREA REFER TO DRAWING NUMBER 270P(2D)20209 : RESIDUE DISPOSAL PIPELINES - ALIGNMENT SHT 7 OF 18

PRIOR TO ANY EXCAVATION OR CONSTRUCTION THE EXACT LOCATION OF ANY UNDERGROUND SERVICES SHOULD BE VERIFIED ON SITE FIRST.



- NOTES -**
- REFER TO NOTES ON 270P(2D)20384.
 - BURIED 120 mm² BARE Cu GRADING RING. POSITION 1m OUT FROM SLAB WHERE DISTANCE TO FENCE PERMITS AT A DEPTH OF 0.5 m WITH 70 mm² Cu/PVC RISERS TO 2 DIAGONAL COLUMNS WHERE SHOWN.
 - 19/3,25 (158 mm²) AL/PVC BONDING CONDUCTORS FROM INDEPENDENT LOCATIONS IN AURIZON EARTHING SYSTEM BONDED TO COLUMNS 0.5 m ABOVE BASES WHERE SHOWN. ARRANGEMENT AS PER 000E(2D)00006 TYPE ES1. TERMINATION HARDWARE AS PER AURIZON DRG. N699/62003. RUN TO TRACTION SYSTEM EASMENT BOUNDARY 0.5 m BELOW GRADE, LEAVE 2 m TAILS ABOVE GROUND FOR CONNECTION (BY AURIZON).

GPC Gladstone Ports Corporation

APPROVED

Name: Trudi Smith
Date: 10:53am 01/03/2023

APPROVED FOR CONSTRUCTION

270S(2D)20183	RESIDUE DISPOSAL - DN750 PIPELINES - PIPE SUPPORT SCHEDULE
270S(2D)20182	RESIDUE DISPOSAL - DN750 PIPELINES - PIPE SUPPORT DETAILS SHEET 2
270S(2D)20181	RESIDUE DISPOSAL - DN750 PIPELINES - PIPE SUPPORT DETAILS SHEET 1
270S(2D)20161	RESIDUE DISPOSAL - QUARRY RD RAIL CROSSING - BRIDGE ARRANGEMENT
270P(2D)20395	RESIDUE DISPOSAL - QUARRY RD RAIL CROSSING - PIPING SECTIONS
270P(2D)20393	RESIDUE DISPOSAL - QUARRY RD RAIL CROSSING - SHEET 3
270P(2D)20391	RESIDUE DISPOSAL - QUARRY RD RAIL CROSSING - SHEET 1
270P(2D)20270	RESIDUE DISPOSAL PIPELINES - HORIZONTAL ALIGNMENT - SHEET 7 OF 18

DATE	REV	ISSUED FOR CONSTRUCTION	RPD (M/J)	MA/J	AP	AO
25/03/2022	001	ISSUED FOR CONSTRUCTION				

DRAWN BY	DATE	DATE	DATE	DATE	DATE	DATE
ALJOHNSON	08/04/2022	08/04/2022	08/04/2022	08/04/2022	08/04/2022	08/04/2022

RioTinto

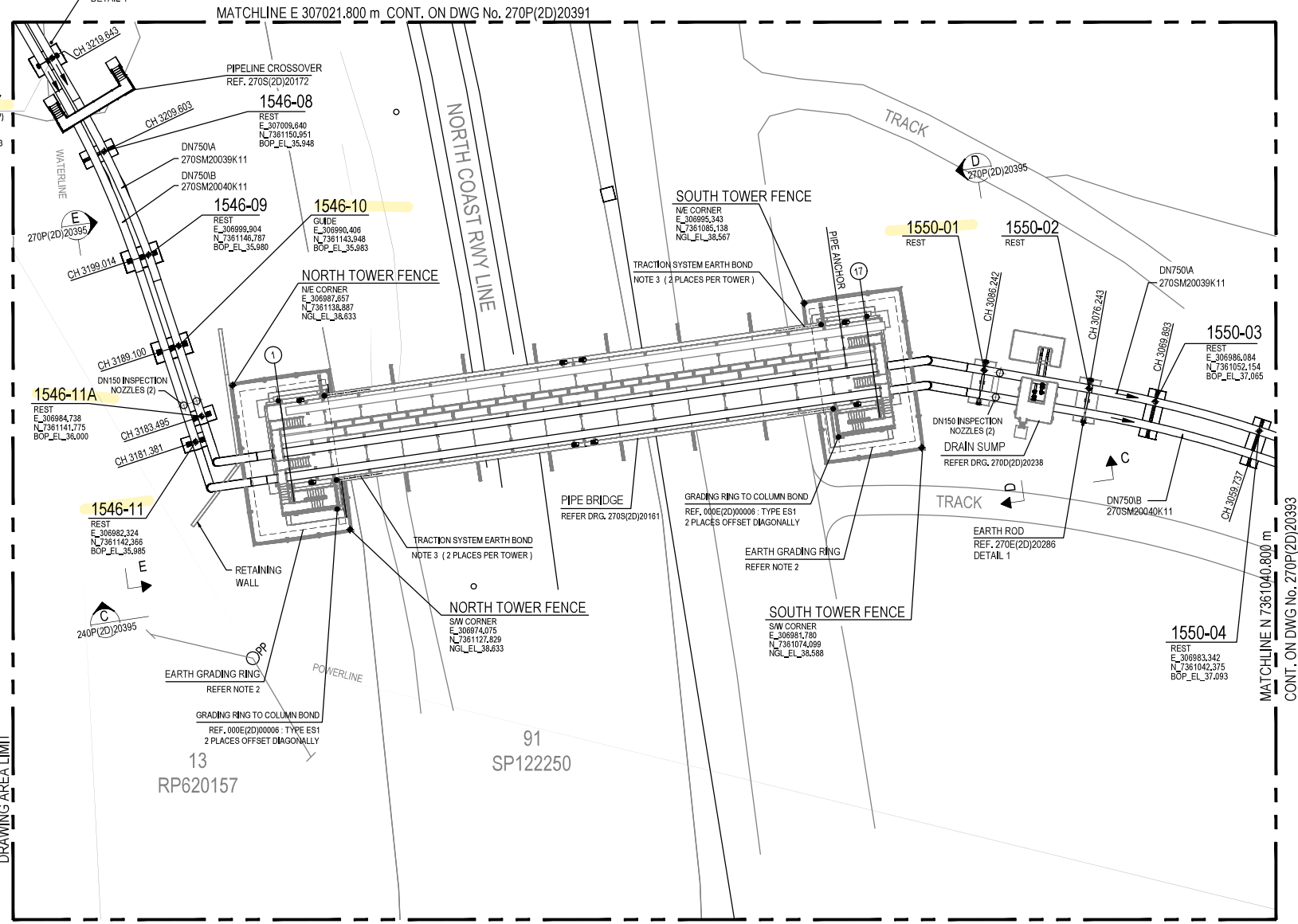
TITLE: BAUXITE RESIDUE DISPOSAL QUARRY ROAD RAIL CROSSING PIPING PLAN (SHEET 2 OF 3)

SCALE: 1:200

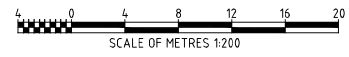
DRAWING NUMBER: 270P(2D)20392

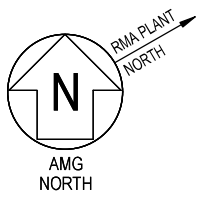
SHEET: A1

REVISION: C01



PIPING PLAN





1556A
REST
E_306828.681
N_7360954.428
BOP_EL_40.065

1556
GUIDE
E_306838.092
N_7360956.520
BOP_EL_39.967

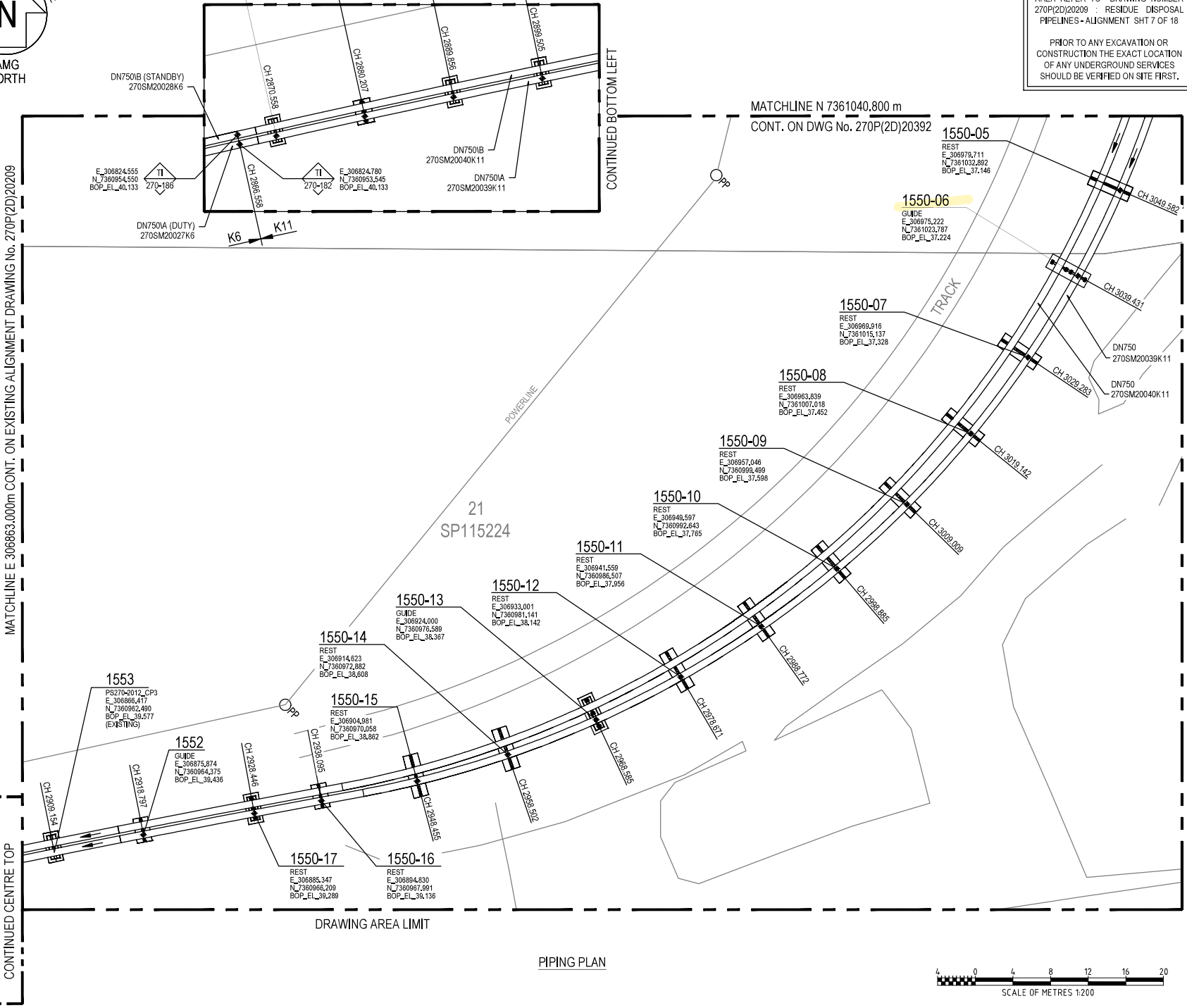
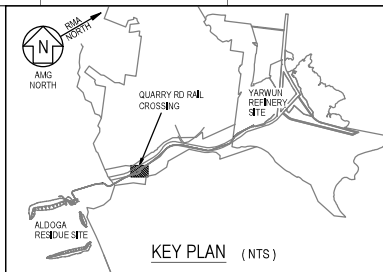
1555
REST
E_306847.524
N_7360958.582
BOP_EL_39.843

1554
REST
E_306856.564
N_7360960.552
BOP_EL_39.713

UNDERGROUND SERVICES

FOR UNDERGROUND SERVICES IN THIS AREA REFER TO DRAWING NUMBER 270P(2D)20209 - RESIDUE DISPOSAL PIPELINES - ALIGNMENT SHT 7 OF 18

PRIOR TO ANY EXCAVATION OR CONSTRUCTION THE EXACT LOCATION OF ANY UNDERGROUND SERVICES SHOULD BE VERIFIED ON SITE FIRST.



NOTES -

1. REFER TO NOTES ON 270P(2D)20384.



APPROVED FOR CONSTRUCTION

270P(2D)20183	RESIDUE DISPOSAL - DN750 PIPELINES - PIPE SUPPORT SCHEDULE
270P(2D)20182	RESIDUE DISPOSAL - DN750 PIPELINES - PIPE SUPPORT DETAILS SHEET 2
270P(2D)20181	RESIDUE DISPOSAL - DN750 PIPELINES - PIPE SUPPORT DETAILS SHEET 1
270P(2D)20392	RESIDUE DISPOSAL - QUARRY ROAD RAIL CROSSING - SHEET 2
270P(2D)20270	RESIDUE DISPOSAL PIPELINES - HORIZONTAL ALIGNMENT - SHEET 7 OF 18

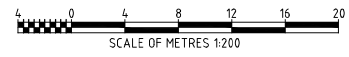
DATE	REV	ISSUED FOR CONSTRUCTION	RPD (M/J)	AP	AO
25/03/2022	001	ISSUED FOR CONSTRUCTION			

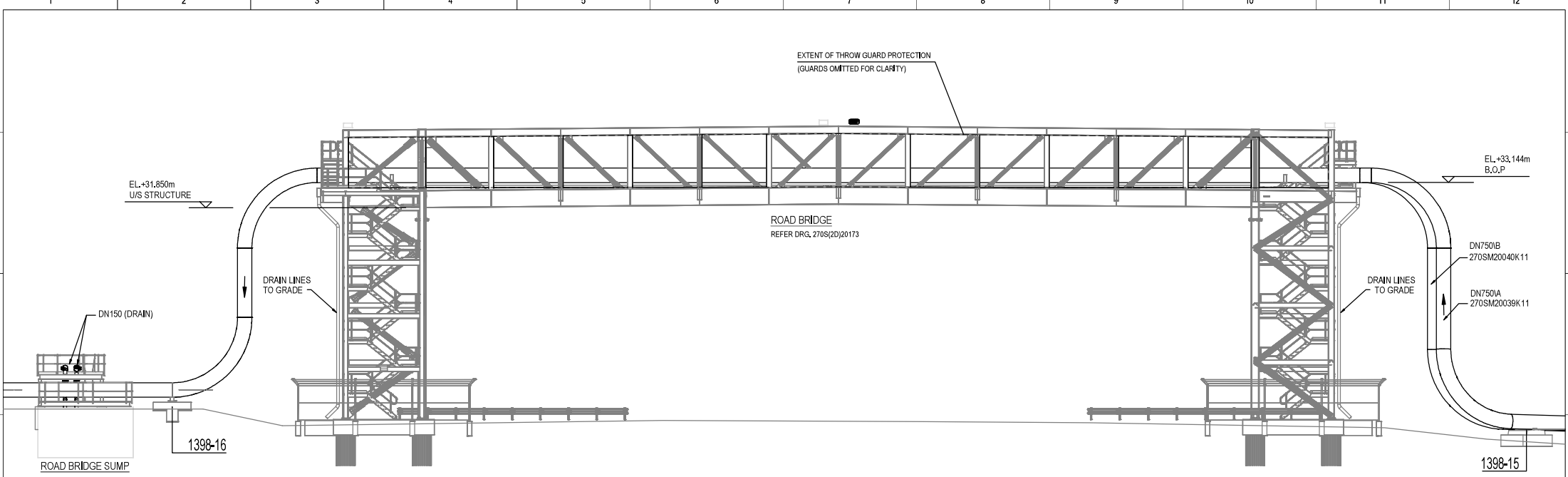
DRAWN BY	DATE	DATE	DATE	DATE	DATE
ALJOHNSON	08/04/2022	08/04/2022	08/04/2022	08/04/2022	08/04/2022

RioTinto

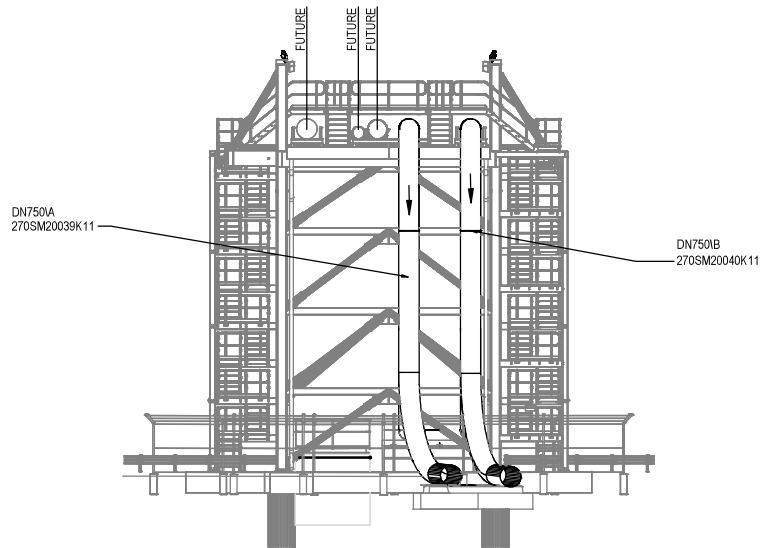
TITLE
BAUXITE RESIDUE DISPOSAL
QUARRY ROAD RAIL CROSSING
PIPING PLAN (SHEET 3 OF 3)

SCALE 1:200	3rd ANGLE PROJECTION	DRAWING NUMBER 270P(2D)20393	SHEET A1	REVISION C01
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SECTION A
SCALE 1:100 270P(2D)20385



SECTION B
SCALE 1:100 270P(2D)20385

APPROVED FOR CONSTRUCTION

NO.	REV.	DESCRIPTION
270S(2D)20183		RESIDUE DISPOSAL - DN750 PIPELINES - PIPE SUPPORT SCHEDULE
270S(2D)20182		RESIDUE DISPOSAL - DN750 PIPELINES - PIPE SUPPORT DETAILS SHEET 2
270S(2D)20181		RESIDUE DISPOSAL - DN750 PIPELINES - PIPE SUPPORT DETAILS SHEET 1
270S(2D)20173		RESIDUE DISPOSAL - CALLIOPE RIVER RD CROSSING - BRIDGE ARRANGMENT
270S(2D)20228		RESIDUE DISPOSAL - SUMP/DRY ARRANGEMENT
270P(2D)20385		RESIDUE DISPOSAL - QUARRY RIVER RD CROSSING - SHEET 2

REFERENCE DRAWINGS											

DATE	REV	ISSUED FOR CONSTRUCTION	RPD (M/J)	IAUJ (A/P)	AO
25/03/2022	C01	ISSUED FOR CONSTRUCTION			

DRAWN BY		DATE	CHANGE RECORD NUMBER	ENGR BY		DATE
ALPHFIELD		08/04/2022	4897	RTY PROJECT		21/04/2022
ALPHFIELD		08/04/2022	4897	AJPOTETER		22/04/2022
ALPHFIELD		08/04/2022	4897	JCANNANAGH		22/04/2022
ALPHFIELD		14/04/2022	4897	AJKHELL		28/04/2022



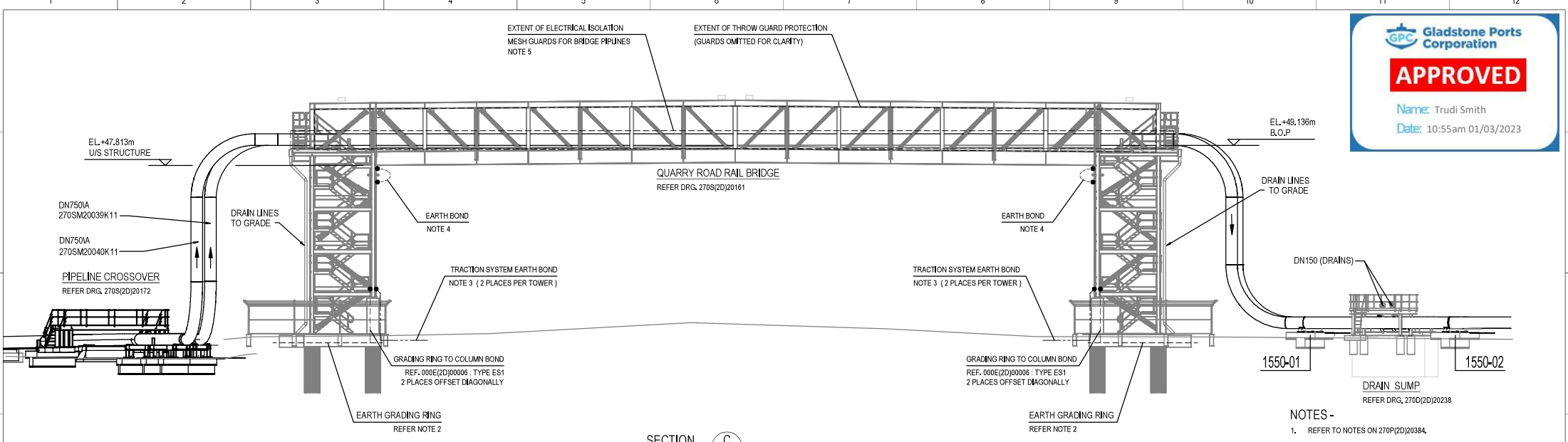
TITLE
BAUXITE RESIDUE DISPOSAL
CALLIOPE RIVER ROAD PIPE CROSSING
PIPING ELEVATION (SHEET 1 OF 1)

SCALE	DRAWING NUMBER	SEE	REVISION
1:200	270P(2D)20394	A1	C01

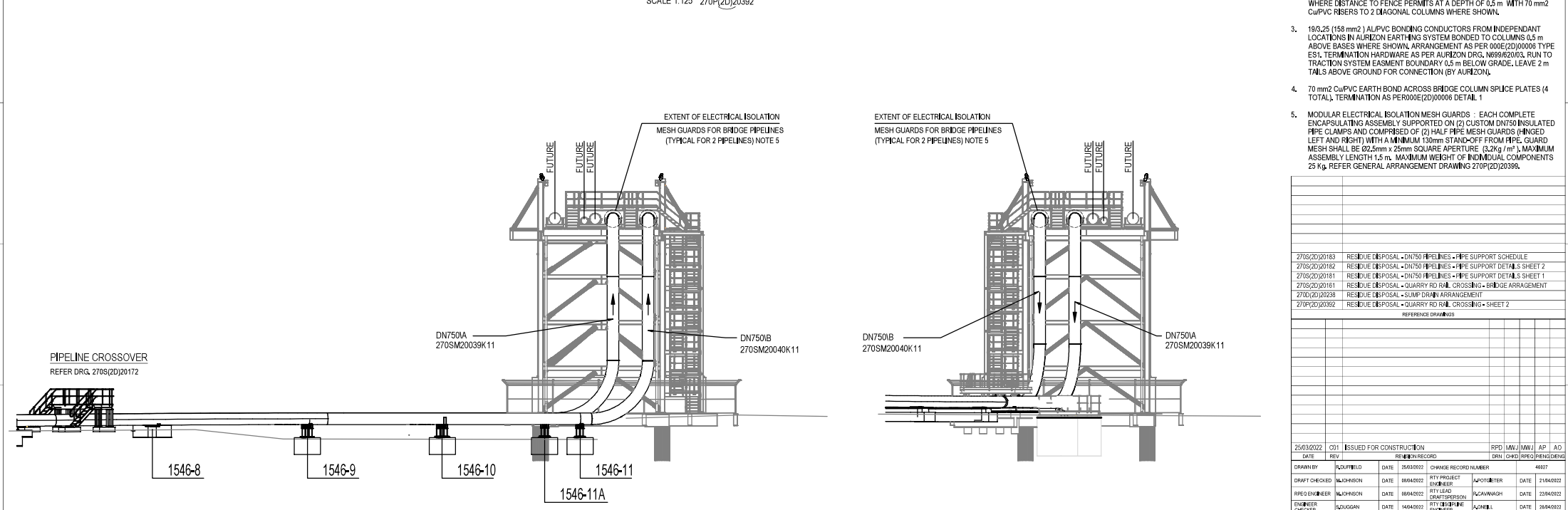


APPROVED

Name: Trudi Smith
Date: 10:54am 01/03/2023



SECTION C
SCALE 1:125 270P(2D)20392



SECTION E
SCALE 1:125 270P(2D)20392

SECTION D
SCALE 1:125 270P(2D)20392

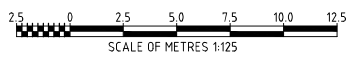
- NOTES -**
- REFER TO NOTES ON 270P(2D)20384.
 - BURIED 120 mm2 BARE Cu GRADING RING, POSITION 1m OUT FROM SLAB WHERE DISTANCE TO FENCE PERMITS AT A DEPTH OF 0.5 m WITH 70 mm2 Cu/PVC RISERS TO 2 DIAGONAL COLUMNS WHERE SHOWN.
 - 19/3.25 (158 mm2) AL/PVC BONDING CONDUCTORS FROM INDEPENDANT LOCATIONS IN AURIZON EARTHING SYSTEM BONDED TO COLUMNS 0.5 m ABOVE BASES WHERE SHOWN. ARRANGEMENT AS PER 000E(2D)0006 TYPE ES1. TERMINATION HARDWARE AS PER AURIZON DRG. N699/620/03. RUN TO TRACTION SYSTEM EASMENT BOUNDARY 0.5 m BELOW GRADE. LEAVE 2 m TAILS ABOVE GROUND FOR CONNECTION (BY AURIZON).
 - 70 mm2 Cu/PVC EARTH BOND ACROSS BRIDGE COLUMN SPLICE PLATES (4 TOTAL), TERMINATION AS PER 000E(2D)0006 DETAIL 1.
 - MODULAR ELECTRICAL ISOLATION MESH GUARDS : EACH COMPLETE ENCAPULATING ASSEMBLY SUPPORTED ON (2) CUSTOM DN750 INSULATED PIPE CLAMPS AND COMPRISED OF (2) HALF PIPE MESH GUARDS (HINGED LEFT AND RIGHT) WITH A MINIMUM 130mm STAND-OFF FROM PIPE. GUARD MESH SHALL BE 02.5mm x 25mm SQUARE APERTURE (3.2kg /m² MAXIMUM ASSEMBLY LENGTH 1.5 m. MAXIMUM WEIGHT OF INDIVIDUAL COMPONENTS 25 kg. REFER GENERAL ARRANGEMENT DRAWING 270P(2D)20396.

270S(2D)20183	RESIDUE DISPOSAL - DN750 PIPELINES - PIPE SUPPORT SCHEDULE
270S(2D)20182	RESIDUE DISPOSAL - DN750 PIPELINES - PIPE SUPPORT DETAILS SHEET 2
270S(2D)20181	RESIDUE DISPOSAL - DN750 PIPELINES - PIPE SUPPORT DETAILS SHEET 1
270S(2D)20161	RESIDUE DISPOSAL - QUARRY RD RAIL CROSSING - BRIDGE ARRANGEMENT
270S(2D)20238	RESIDUE DISPOSAL - SUMP DRAIN ARRANGEMENT
270P(2D)20392	RESIDUE DISPOSAL - QUARRY RD RAIL CROSSING - SHEET 2

DATE	REV	ISSUED FOR CONSTRUCTION	REVISION RECORD	RPD (MMJ)	IAUJ	AP	AO
25/03/2022	001	ISSUED FOR CONSTRUCTION					

DRAWN BY	DATE	DATE	DATE	DATE	DATE	DATE	DATE
MJOHNSON	08/04/2022	08/04/2022	08/04/2022	08/04/2022	08/04/2022	08/04/2022	08/04/2022

APPROVED FOR CONSTRUCTION



**BAUXITE RESIDUE DISPOSAL
QUARRY ROAD RAIL CROSSING
PIPING ELEVATION (SHEET 1 OF 1)**

SCALE	DRAWING NUMBER	SHEET	REVISION
1:200	270P(2D)20395	A1	C01