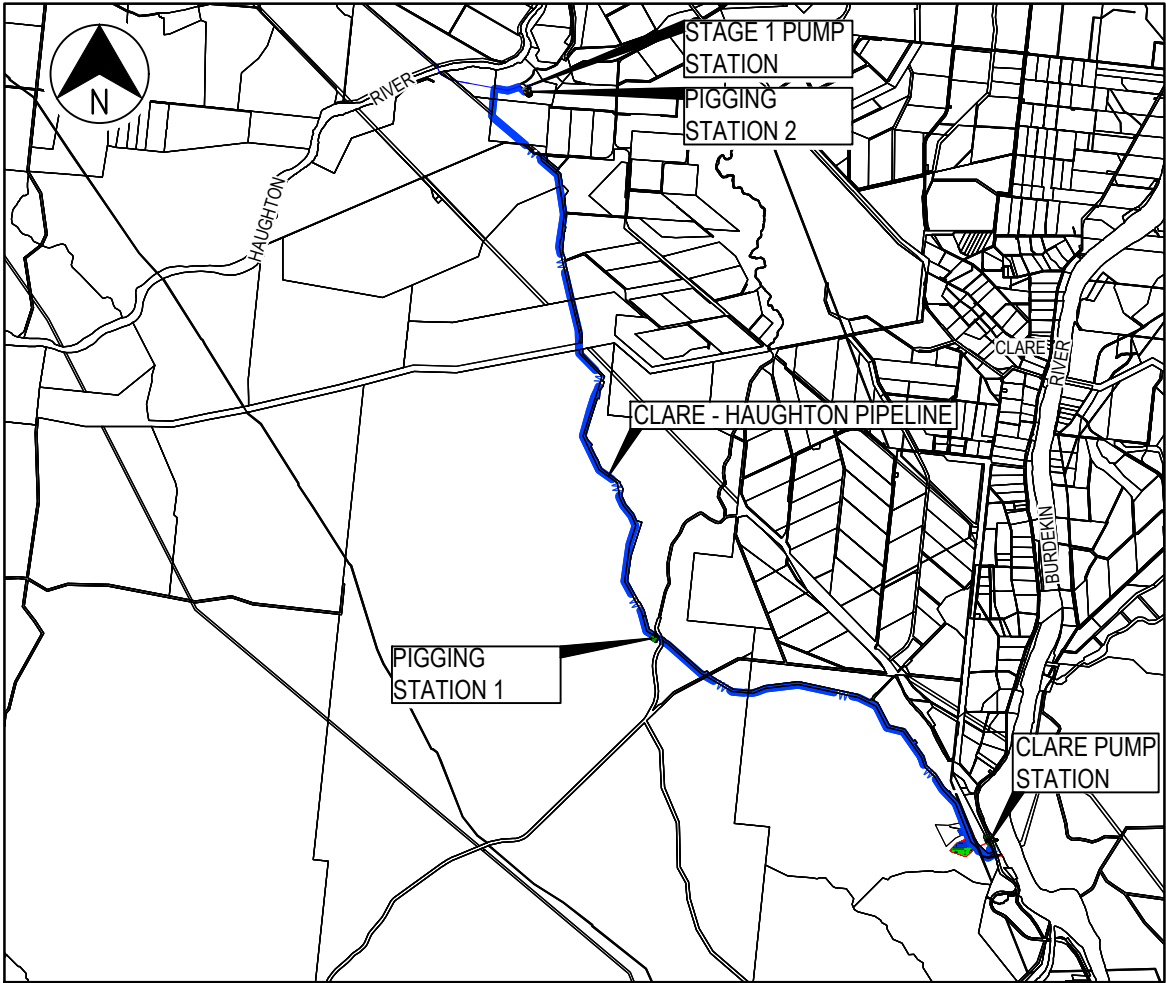


DATE: 27/05/2019 9:49:10 AM NAME: HINSPETER, LUKE
LOCATION: C:\Users\hinspeter\appdata\local\project\ci\dr\ci\dr-0001.dwg

DEPARTMENT OF INFRASTRUCTURE, REGIONAL DEVELOPMENT AND CITIES
HAUGHTON STAGE 2 PIPELINE



LOCALITY PLAN
NTS

DRAWING INDEX

DRAWING No.	DRAWING TITLE
GENERAL	
IH175200-0000-CI-DRG-0001	LOCALITY PLAN AND DRAWING INDEX
IH175200-0000-CI-DRG-0002	PIPING AND INSTRUMENTATION DIAGRAM SHEET 1 OF 2
IH175200-0000-CI-DRG-0003	PIPING AND INSTRUMENTATION DIAGRAM SHEET 2 OF 2
CLARE - HAUGHTON PIPELINE	
IH175200-0000-CI-DRG-1002	COMPILATION PLAN & NOTES
IH175200-0000-CI-DRG-1005	PLAN AND LONGITUDINAL SECTION SHEET 1 OF 21
IH175200-0000-CI-DRG-1006	PLAN AND LONGITUDINAL SECTION SHEET 2 OF 21
IH175200-0000-CI-DRG-1007	PLAN AND LONGITUDINAL SECTION SHEET 3 OF 21
IH175200-0000-CI-DRG-1008	PLAN AND LONGITUDINAL SECTION SHEET 4 OF 21
IH175200-0000-CI-DRG-1009	PLAN AND LONGITUDINAL SECTION SHEET 5 OF 21
IH175200-0000-CI-DRG-1010	PLAN AND LONGITUDINAL SECTION SHEET 6 OF 21
IH175200-0000-CI-DRG-1011	PLAN AND LONGITUDINAL SECTION SHEET 7 OF 21
IH175200-0000-CI-DRG-1012	PLAN AND LONGITUDINAL SECTION SHEET 8 OF 21
IH175200-0000-CI-DRG-1013	PLAN AND LONGITUDINAL SECTION SHEET 9 OF 21
IH175200-0000-CI-DRG-1014	PLAN AND LONGITUDINAL SECTION SHEET 10 OF 21
IH175200-0000-CI-DRG-1015	PLAN AND LONGITUDINAL SECTION SHEET 11 OF 21
IH175200-0000-CI-DRG-1016	PLAN AND LONGITUDINAL SECTION SHEET 12 OF 21
IH175200-0000-CI-DRG-1017	PLAN AND LONGITUDINAL SECTION SHEET 13 OF 21
IH175200-0000-CI-DRG-1018	PLAN AND LONGITUDINAL SECTION SHEET 14 OF 21
IH175200-0000-CI-DRG-1019	PLAN AND LONGITUDINAL SECTION SHEET 15 OF 21
IH175200-0000-CI-DRG-1020	PLAN AND LONGITUDINAL SECTION SHEET 16 OF 21
IH175200-0000-CI-DRG-1021	PLAN AND LONGITUDINAL SECTION SHEET 17 OF 21
IH175200-0000-CI-DRG-1022	PLAN AND LONGITUDINAL SECTION SHEET 18 OF 21
IH175200-0000-CI-DRG-1023	PLAN AND LONGITUDINAL SECTION SHEET 19 OF 21
IH175200-0000-CI-DRG-1024	PLAN AND LONGITUDINAL SECTION SHEET 20 OF 21
IH175200-0000-CI-DRG-1025	PLAN AND LONGITUDINAL SECTION SHEET 21 OF 21
IH175200-0000-CI-DRG-1040	TRENCH DETAILS
IH175200-0000-CI-DRG-1041	PIPE SUPPORTS DETAILS
IH175200-0000-CI-DRG-1045	TYPICAL DETAILS - AIR VALVE
IH175200-0000-CI-DRG-1046	TYPICAL DETAILS - SCOUR OUTLET
IH175200-0000-CI-DRG-1047	SECTION VALVE
IH175200-0000-CI-DRG-1050	PIGGING STATION AND SCOUR DAM
IH175200-0000-CI-DRG-1051	PIGGING STATION DETAILS
IH175200-0000-CI-DRG-1052	PIGGING LAUNCHER
IH175200-0000-CI-DRG-1053	PIGGING RECEIVER
IH175200-0000-CI-DRG-1060	HAUGHTON MAIN CHANNEL DISCHARGE SITE PLAN
IH175200-0000-CI-DRG-1061	PIPELINE CHANNEL DISCHARGE STRUCTURE
IH175200-0000-CI-DRG-1062	PIPELINE CHANNEL DISCHARGE STRUCTURE PICTORIAL
CLARE SITE PUMP STATIONS SITE	
IH175200-0000-CI-DRG-2002	SITE PLAN
IH175200-0000-CI-DRG-2005	RIVER PUMP STATION TO BALANCING DAM PIPELINE
RIVER PUMP STATION	
IH175200-0000-CI-DRG-2100	GENERAL ARRANGEMENT
IH175200-0000-CI-DRG-2101	PLAN - PUMP STATION TOWER AND CHAMBER
IH175200-0000-CI-DRG-2102	TYPICAL SECTION
IH175200-0000-CI-DRG-2103	ELEVATION
IH175200-0000-CI-DRG-2104	PICTORIAL
IH175200-0000-CI-DRG-2105	STEEL MARKING GENERAL ARRANGEMENT
IH175200-0000-CI-DRG-2106	VALVE PIT DETAILS

DRAWING INDEX

DRAWING No.	DRAWING TITLE
BALANCING DAM	
IH175200-0000-CI-DRG-2200	GENERAL ARRANGEMENT
IH175200-0000-CI-DRG-2201	TYPICAL SECTION
IH175200-0000-CI-DRG-2202	OVERFLOW DETAILS
IH175200-0000-CI-DRG-2205	INLET AND OUTLET DETAILS
TRANSFER PUMP STATION	
IH175200-0000-CI-DRG-2300	GENERAL ARRANGEMENT
IH175200-0000-CI-DRG-2301	ELEVATIONS - SHEET 1
IH175200-0000-CI-DRG-2302	ELEVATIONS - SHEET 2
IH175200-0000-CI-DRG-2303	SECTIONS - SHEET 1
IH175200-0000-CI-DRG-2304	SECTIONS - SHEET 2
IH175200-0000-CI-DRG-2305	DETAILS - SHEET 1
IH175200-0000-CI-DRG-2306	PICTORIAL
IH175200-0000-CI-DRG-2307	SLAB AND FOOTING GENERAL ARRANGEMENT
IH175200-0000-CI-DRG-2308	STEEL MARKING GENERAL ARRANGEMENT
IH175200-0000-CI-DRG-2309	STEELWORK TYPICAL SECTION
GEOTECHNICAL	
IH175200-0000-CI-DRG-3000	GEOTECHNICAL COMPILATION PLAN
IH175200-0000-CI-DRG-3001	GEOTECHNICAL WORKING PLAN AND SECTION SHEET 1 OF 11
IH175200-0000-CI-DRG-3002	GEOTECHNICAL WORKING PLAN AND SECTION SHEET 2 OF 11
IH175200-0000-CI-DRG-3003	GEOTECHNICAL WORKING PLAN AND SECTION SHEET 3 OF 11
IH175200-0000-CI-DRG-3004	GEOTECHNICAL WORKING PLAN AND SECTION SHEET 4 OF 11
IH175200-0000-CI-DRG-3005	GEOTECHNICAL WORKING PLAN AND SECTION SHEET 5 OF 11
IH175200-0000-CI-DRG-3006	GEOTECHNICAL WORKING PLAN AND SECTION SHEET 6 OF 11
IH175200-0000-CI-DRG-3007	GEOTECHNICAL WORKING PLAN AND SECTION SHEET 7 OF 11
IH175200-0000-CI-DRG-3008	GEOTECHNICAL WORKING PLAN AND SECTION SHEET 8 OF 11
IH175200-0000-CI-DRG-3009	GEOTECHNICAL WORKING PLAN AND SECTION SHEET 9 OF 11
IH175200-0000-CI-DRG-3010	GEOTECHNICAL WORKING PLAN AND SECTION SHEET 10 OF 11
IH175200-0000-CI-DRG-3011	GEOTECHNICAL WORKING PLAN AND SECTION SHEET 11 OF 11
ELECTRICAL	
IH175200-052-EE-DRG-001	OPTION 1 SOLAR FARM - INITIAL AND ULTIMATE GENERAL ARRANGEMENT
IH175200-052-EE-DRG-002	OPTION 2 SOLAR FARM - INITIAL AND ULTIMATE GENERAL ARRANGEMENT
IH175200-052-EE-DRG-201	OPTION 1 SOLAR FARM - INITIAL AND ULTIMATE SINGLE LINE DIAGRAM
IH175200-052-EE-DRG-202	OPTION 2 SOLAR FARM - INITIAL AND ULTIMATE SINGLE LINE DIAGRAM
IH175200-052-EE-DRG-301	OPTION 1 - HLP STATION - INITIAL AND ULTIMATE SWITCHROOM GENERAL ARRANGEMENT
IH175200-052-EE-DRG-302	OPTION 2 - HLP STATION - INITIAL AND ULTIMATE SWITCHROOM GENERAL ARRANGEMENT
IH175200-052-EE-DRG-303	OPTION 1 & 2 - LLP STATION - INITIAL AND ULTIMATE SWITCHROOM GENERAL ARRANGEMENT

CONCEPT DESIGN ISSUE

Jacobs Group (Australia) Pty Ltd ABN 57 001 024 095. No part of this document or the information it contains may be reproduced or transmitted in any form or by any means electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without permission in writing from Jacobs Group (Australia) Pty Ltd.

REV	DATE	DRAWN	REV'D	APP'D	REVISION	DRAWING NUMBER	REFERENCE DRAWING TITLE
B	28.05.19	LDH	MV	LH	CONCEPT DESIGN ISSUE		
A	09.05.19				PRELIMINARY ISSUE		

JACOBS

ABN 57 001 024 095 and ACN 001 024 095
Jacobs Group (Australia) Pty Ltd
444 Flinders St
Townsville, QLD 4810
AUSTRALIA

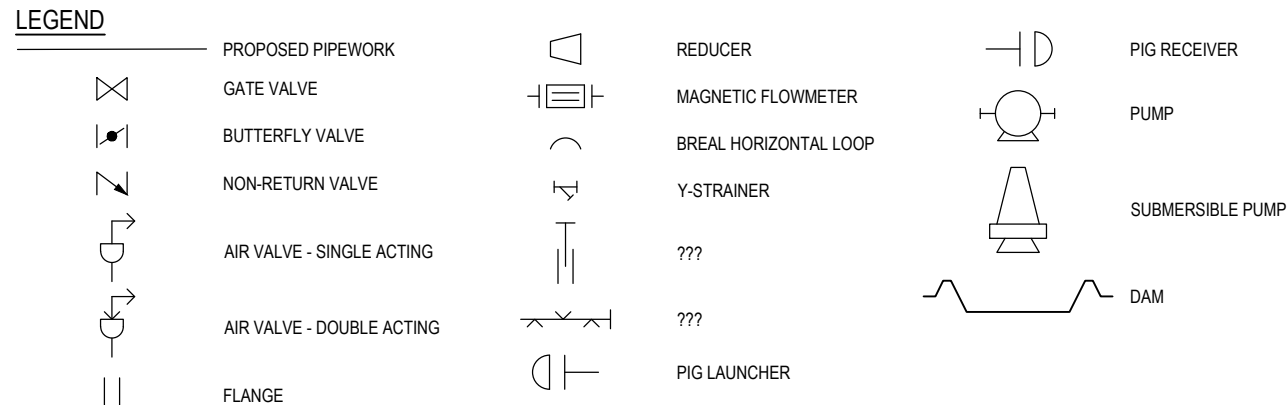
Tel: +61 7 47269100
Web: www.jacobs.com

CLIENT DEPARTMENT OF INFRASTRUCTURE, REGIONAL DEVELOPMENT AND CITIES			
PROJECT HAUGHTON STAGE 2 PIPELINE			
DRAWN LDH	DRAWING CHECK	REVIEWED	APPROVED
DESIGNED	DESIGN REVIEW	DATE	DATE

TITLE CLARE - HAUGHTON PIPELINE
LOCALITY PLAN AND DRAWING INDEX

SCALE AS SHOWN
DRAWING No. IH175200-0000-CI-DRG-0001

REV B



TITLE	PIPING AND INSTRUMENTATION DIAGRAM SHEET 1 OF 2
-------	--

[illegible]

CLIENT DEPARTMENT OF INFRASTRUCTURE, REGIONAL DEVELOPMENT AND CITIES				TITLE PIPING AND INSTRUMENTATION DIAGRAM SHEET 1 OF 2			
PROJECT HAUGHTON STAGE 2 PIPELINE							
DRAWN DK		DRAWING CHECK		REVIEWED		APPROVED	
DESIGNED		DESIGN REVIEW		DATE		DATE	
				SCALE AS SHOWN		DRAWING No IH175200-0000-CI-DRG-0002	
						REV B	

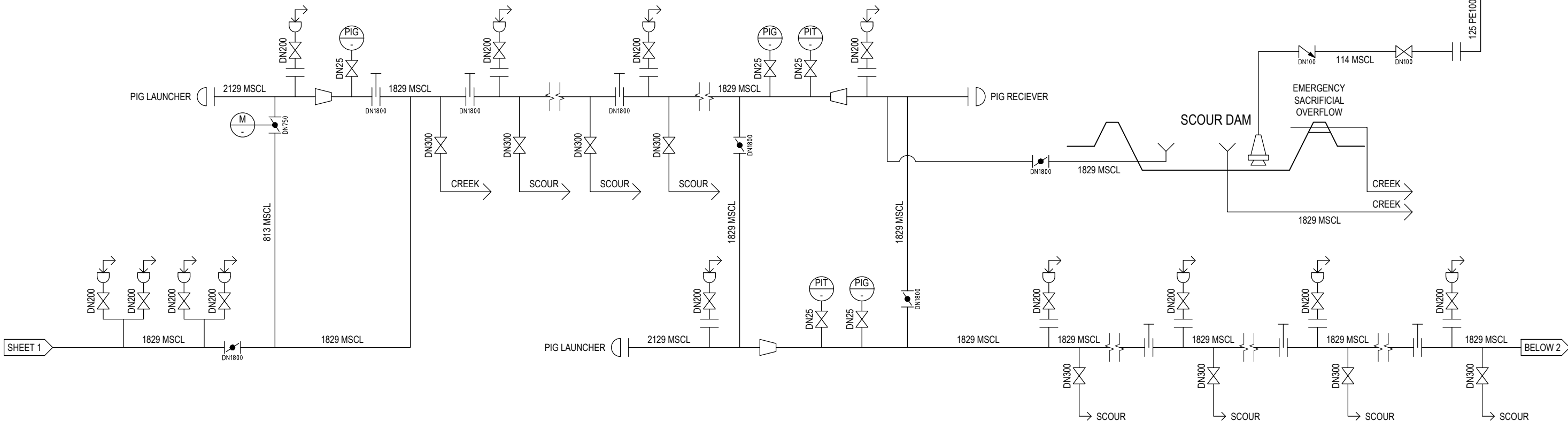
DATE: 27/05/2019 9:26:53 AM NAME: HINSPETER, LUKE
LOCATION: C:\Users\hinspeter\appdata\local\project\jacobs_arz_00264936\IH175200-0000-CI-DRG-0002.dwg

SHEET 1

SHEET 1

BELOW 1

BELOW 2

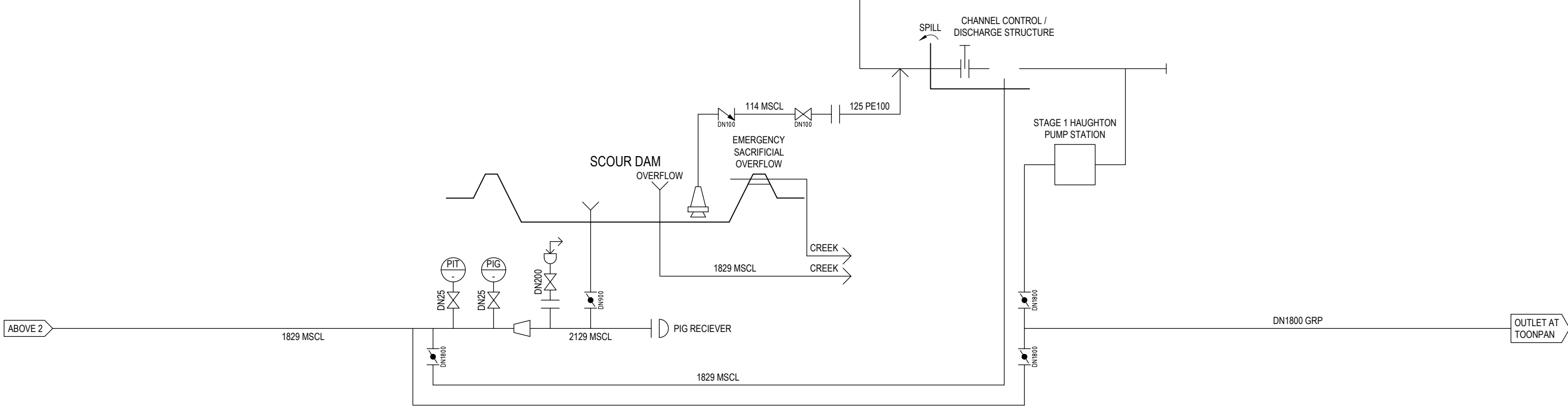


ABOVE 1

ABOVE 2

ABOVE 1

OUTLET AT TOONPAN



CONCEPT DESIGN ISSUE

Jacobs Group (Australia) Pty Ltd ABN 57 001 024 095. No part of this document or the information it contains may be reproduced or transmitted in any form or by any means electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without permission in writing from Jacobs Group (Australia) Pty Ltd.

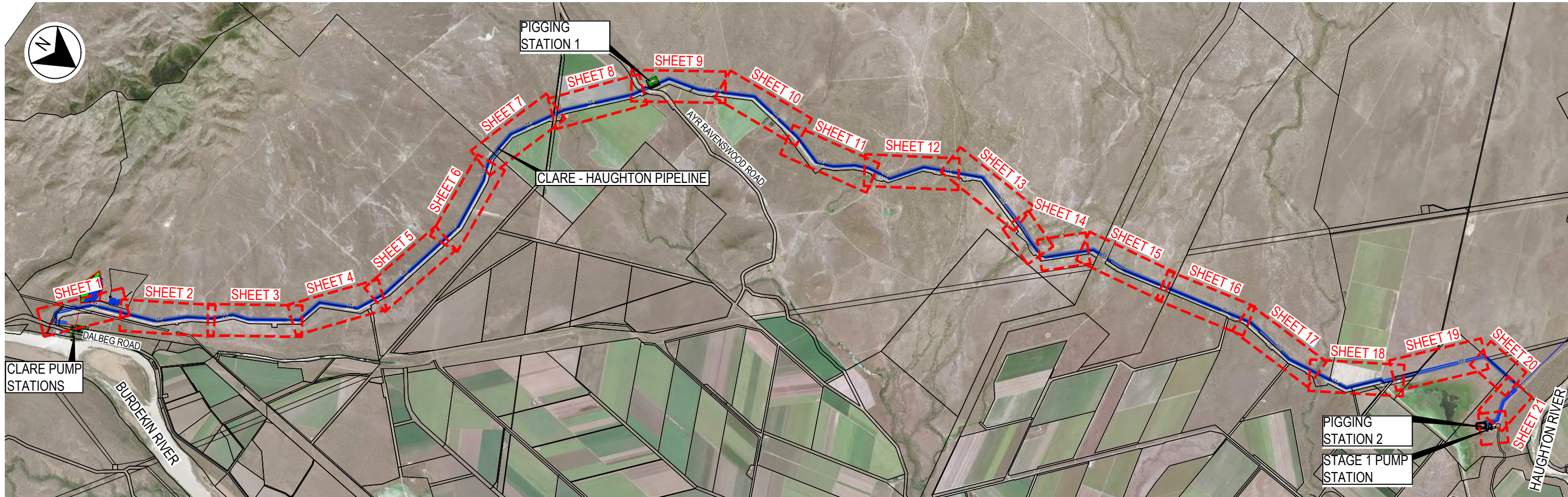
REV	DATE	DRAWN	REV'D	APP'D	REVISION	DRAWING NUMBER	REFERENCE DRAWING TITLE
B	28.05.19	LDH	MV	LH	CONCEPT DESIGN ISSUE		
A	09.05.19				PRELIMINARY ISSUE		

JACOBS

ABN 57 001 024 095 and ACN 001 024 095
Jacobs Group (Australia) Pty Ltd
444 Flinders St
Townsville, QLD 4810
AUSTRALIA

Tel: +61 7 47269100
Web: www.jacobs.com

CLIENT	DEPARTMENT OF INFRASTRUCTURE, REGIONAL DEVELOPMENT AND CITIES	TITLE	PIPING AND INSTRUMENTATION DIAGRAM SHEET 2 OF 2
PROJECT	HAUGHTON STAGE 2 PIPELINE	SCALE	AS SHOWN
DRAWN	DK	DRAWING CHECK	DESIGN REVIEW
DESIGNED		REVIEWED	
		APPROVED	
		DATE	DATE
DRAWING No.	IH175200-0000-CI-DRG-0003	REV	B



COMPILATION PLAN
SCALE 1:40000 (A1)

LEGEND

- EXISTING SURFACE CONTOUR
- FINISHED SURFACE CONTOUR (0.Xm INTERVAL)
- EXISTING BUILDING
- EXISTING EDGE OF ROAD
- EXISTING RAILWAY
- EXISTING OVERHEAD ELECTRICAL
- STREAM BUFFER
- PROPOSED CONSTRUCTION EASEMENT
- PROPOSED STORMWATER DRAINAGE
- PROPOSED Ø1829 MSCL PIPELINE
- PROPOSED ELECTRICAL 11kv
- PROPOSED ELECTRICAL UNDERGROUND

CONCEPT DESIGN ISSUE

REV	DATE	DRAWN	REV'D	APP'D	REVISION	DRAWING NUMBER	REFERENCE DRAWING TITLE
B	28.05.19	LDH	MV	LH	CONCEPT DESIGN ISSUE		
A	09.05.19				PRELIMINARY ISSUE		

JACOBS

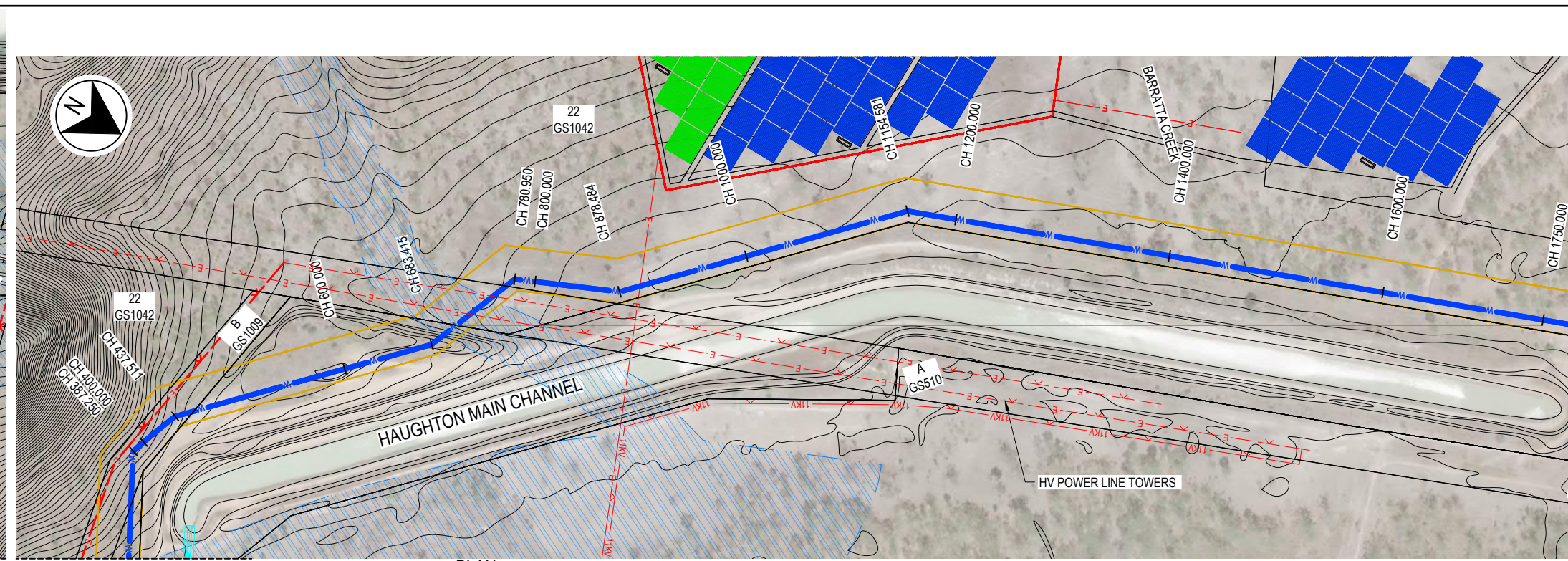
ABN 57 001 024 095 and ACN 001 024 095
Jacobs Group (Australia) Pty Ltd
444 Flinders St
Townsville, QLD 4810
AUSTRALIA
Tel: +61 7 47269100
Web: www.jacobs.com

CLIENT DEPARTMENT OF INFRASTRUCTURE, REGIONAL DEVELOPMENT AND CITIES			
PROJECT HAUGHTON STAGE 2 PIPELINE			
DRAWN LDH	DRAWING CHECK	REVIEWED	APPROVED
DESIGNED	DESIGN REVIEW	DATE	DATE

TITLE
CLARE - HAUGHTON PIPELINE
COMPILATION PLAN & NOTES

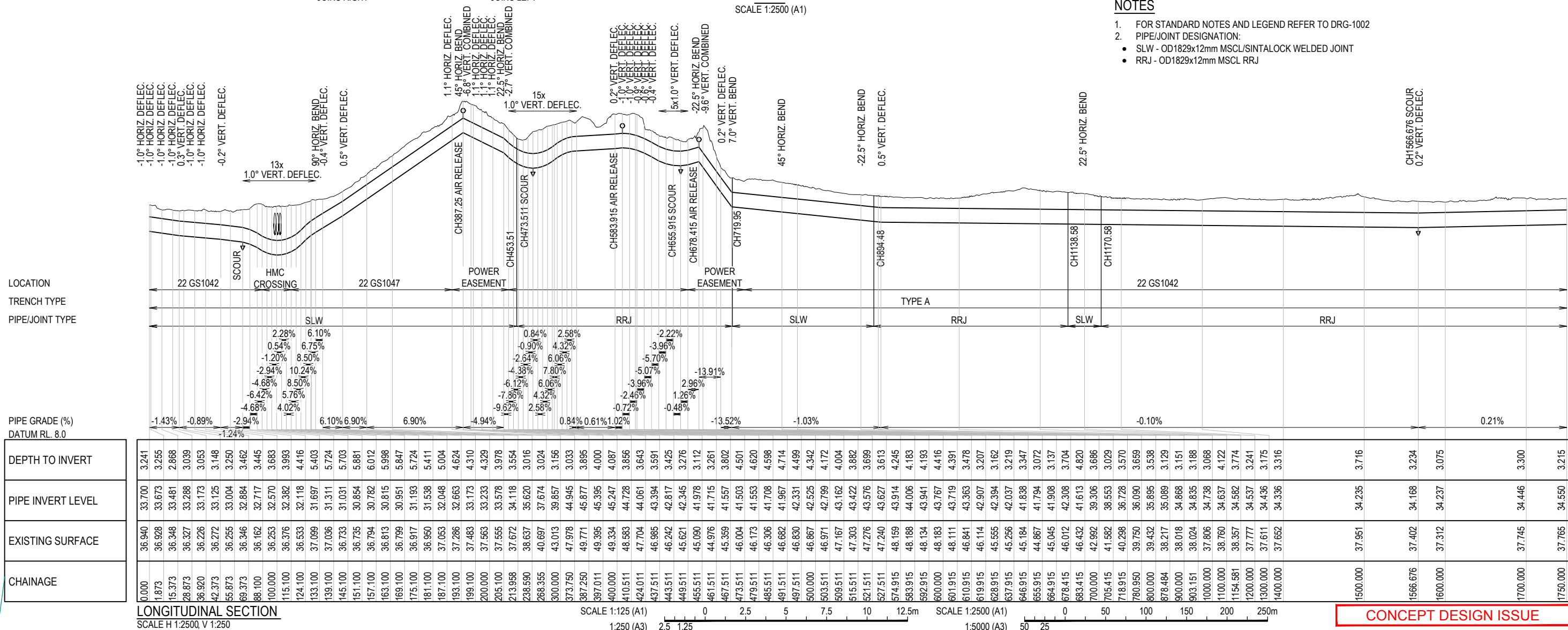
SCALE AS SHOWN
DRAWING No. IH175200-0000-CI-DRG-1002

REV B

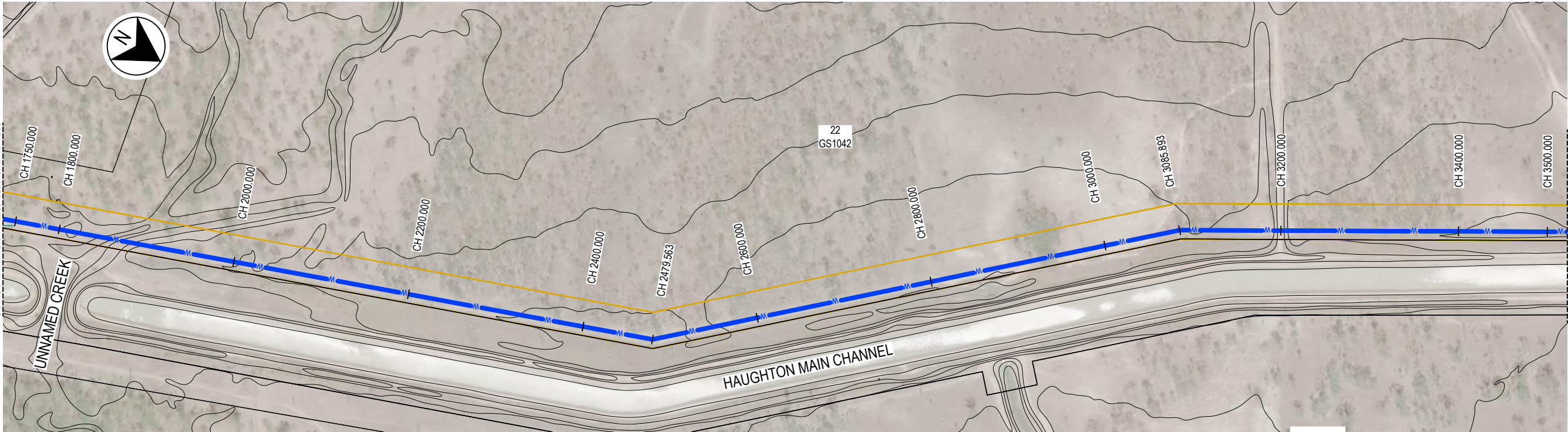


PLAN
SCALE 1:2500 (A1)

1. FOR STANDARD NOTES AND LEGEND REFER TO DRG-1002
2. PIPE/Joint DESIGNATION:
 - SLW - OD1829x12mm MSCL/SINTALOCK WELDED JOINT
 - RRJ - OD1829x12mm MSCL RRJ



CONCEPT DESIGN ISSUE



PLAN
SCALE 1:2500 (A1)

- NOTES**
- FOR STANDARD NOTES AND LEGEND REFER TO DRG-1002
 - PIPE/JOINT DESIGNATION:
 - SLW - OD1829x12mm MSCL/SINTALOCK WELDED JOINT
 - RRJ - OD1829x12mm MSCL RRJ

-1.1° VERT. DEFLEC.
0.6° VERT. DEFLEC.
1.0° VERT. DEFLEC.
1.0° VERT. DEFLEC.
1.0° VERT. DEFLEC.
-1.0° VERT. DEFLEC.
-1.0° VERT. DEFLEC.
-0.1° VERT. DEFLEC.
-0.7° VERT. DEFLEC.
0.1° VERT. DEFLEC.
-0.3° VERT. DEFLEC.
0.3° VERT. DEFLEC.
22.5° HORIZ. BEND
0.3° VERT. DEFLEC.
11.25° HORIZ. BEND
-0.3° VERT. DEFLEC.
-0.3° VERT. DEFLEC.
0.3° VERT. DEFLEC.

LOCATION
TRENCH TYPE
PIPE/JOINT TYPE
PIPE GRADE (%)
DATUM RL. 10.0

DEPTH TO INVERT	3.216	3.220	4.242	4.667	3.873	3.766	3.604	4.548	4.889	4.504	4.482	4.018	3.499	3.341		3.087	3.488		3.084		3.145	3.077		3.376	3.453		3.385	3.657		3.551	3.320		3.455	3.386		3.127	3.099		3.208	3.391	3.115		5.123		3.043	3.000		3.008	3.090		3.049
PIPE INVERT LEVEL	34.550	34.552	33.730	33.189	33.093	33.231	33.604	34.214	34.589	34.591	34.728	34.959	34.740			34.504	34.460				34.233	34.140		33.418	33.387		33.246	33.208		33.021	32.834		32.646	32.609		32.929	33.327		33.670	33.726	33.830		33.752		33.652	33.622		33.038	32.862		32.791
EXISTING SURFACE	37.765	37.772	37.972	37.856	36.966	37.017	38.153	39.103	39.092	39.074	38.747	38.458	38.081			37.591	37.947				37.378	37.218		36.794	36.840		36.632	36.865		36.572	36.153		36.101	35.995		36.056	36.427		36.878	37.117	36.945		38.875		36.694	36.622		36.038	35.952		35.840
CHAINAGE	1750.000	1751.000	1800.000	1832.236	1845.736	1859.236	1872.736	1886.236	1899.736	1900.000	1913.236	1941.498	2000.000			2063.033	2100.000				2287.139	2300.000		2400.000	2404.285		2479.563	2500.000		2600.000	2700.000		2800.000	2819.817		2900.000	3000.000		3085.893	3100.000	3126.032		3200.000		3294.929	3300.000		3400.000	3430.169		3500.000

LONGITUDINAL SECTION
SCALE H 1:2500, V 1:250

SCALE 1:125 (A1) 0 2.5 5 7.5 10 12.5m
1:250 (A3) 2.5 1.25
SCALE 1:2500 (A1) 0 50 100 150 200 250m
1:5000 (A3) 50 25

CONCEPT DESIGN ISSUE

REV	DATE	DRAWN	REV'D	APP'D	REVISION	DRAWING NUMBER	REFERENCE DRAWING TITLE
B	28.05.19	LDH	MV	LH	CONCEPT DESIGN ISSUE		
A	09.05.19				PRELIMINARY ISSUE		

JACOBS

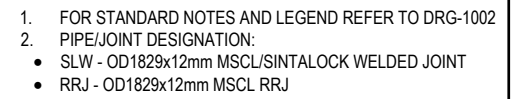
ABN 37 001 024 095 and ACN 001 024 095
Jacobs Group (Australia) Pty Ltd
444 Flinders St
Townsville, QLD 4810
AUSTRALIA
Tel: +61 7 47269100
Web: www.jacobs.com

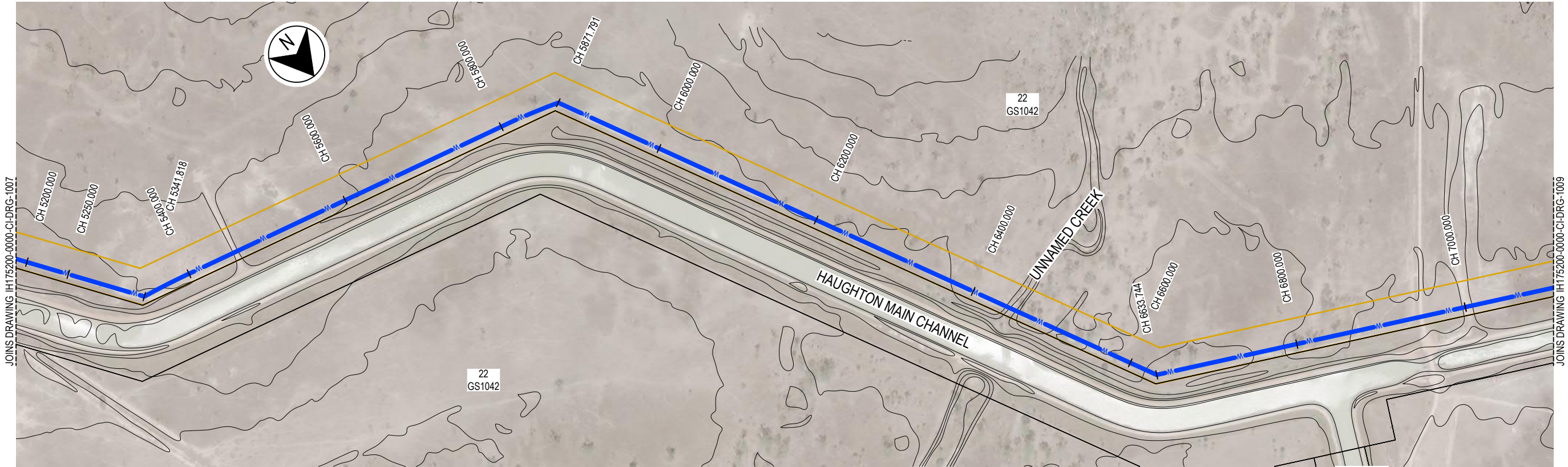
CLIENT		DEPARTMENT OF INFRASTRUCTURE, REGIONAL DEVELOPMENT AND CITIES	
PROJECT		HAUGHTON STAGE 2 PIPELINE	
DRAWN	DRAWING CHECK	REVIEWED	APPROVED
LDH			
DESIGNED	DESIGN REVIEW	DATE	DATE

TITLE
CLARE - HAUGHTON PIPELINE
PLAN AND LONGITUDINAL SECTION
SHEET 2 OF 21

SCALE 1:2500
DRAWING No. IH175200-0000-CI-DRG-1006

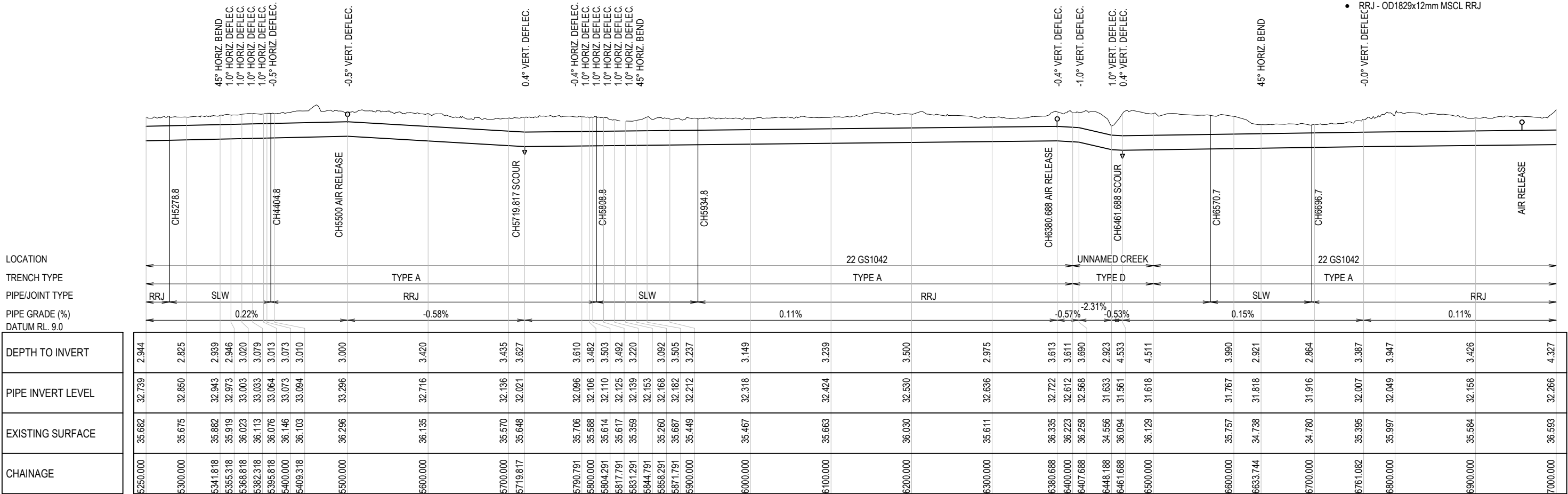
REV B

[illegible]



PLAN
SCALE 1:2500 (A1)

- NOTES
- FOR STANDARD NOTES AND LEGEND REFER TO DRG-1002
 - PIPE/Joint DESIGNATION:
 - SLW - OD1829x12mm MSCL/SINTALOCK WELDED JOINT
 - RRJ - OD1829x12mm MSCL RRJ



LONGITUDINAL SECTION
SCALE H 1:2500, V 1:250

SCALE 1:125 (A1) 0 2.5 5 7.5 10 12.5m
1:250 (A3) 2.5 1.25
SCALE 1:2500 (A1) 0 50 100 150 200 250m
1:5000 (A3) 50 25

CONCEPT DESIGN ISSUE

B	28.05.19	LDH	MV	LH	CONCEPT DESIGN ISSUE								
A	09.05.19				PRELIMINARY ISSUE								
REV	DATE	DRAWN	REV'D	APP'D	REVISION			DRAWING NUMBER				REFERENCE DRAWING TITLE	

JACOBS

ABN 57 001 024 095 and ACN 001 024 095
Jacobs Group (Australia) Pty Ltd
444 Flinders St
Townsville, QLD 4810
AUSTRALIA

Tel: +61 7 47269100
Web: www.jacobs.com

CLIENT DEPARTMENT OF INFRASTRUCTURE, REGIONAL DEVELOPMENT AND CITIES		PROJECT HAUGHTON STAGE 2 PIPELINE	
DRAWN LDH	DRAWING CHECK	REVIEWED	APPROVED
DESIGNED	DESIGN REVIEW	DATE	DATE

TITLE CLARE - HAUGHTON PIPELINE
PLAN AND LONGITUDINAL SECTION
SHEET 4 OF 21

SCALE 1:2500
DRAWING No. IH175200-0000-CI-DRG-1008

REV B



NOTES

1. FOR STANDARD NOTES AND LEGEND REFER TO DRG-1002
2. PIPE/Joint DESIGNATION:
 - SLW - OD1829x12mm MSCL/SINTALOCK WELDED JOINT
 - RRJ - OD1829x12mm MSCL RRJ



-0.2° VERT. DEFLEC.

0.3° VERT. DEFLEC.

-0.2° VERT. DEFLEC.

LOCATION
TRENCH TYPE
PIPE/Joint TYPE
PIPE GRADE (%)
DATUM RL: 9.0
DEPTH TO INVERT
PIPE INVERT LEVEL
EXISTING SURFACE
CHAINAGE

SCALE 1:125 (A1) 0 2.5 5 7.5 10 12.5m
1:250 (A3) 2.5 1.25

SCALE 1:2500 (A1) 0 50 100 150 200 250m
1:5000 (A3) 50 25

CONCEPT DESIGN ISSUE

[illegible]

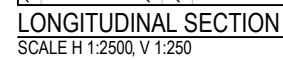


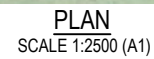
- 0.0, 0.1° VERT. DEFLEC.
- 22.25° HORIZ. BEND
- 1.0° VERT. DEFLEC.
- 1.0° VERT. DEFLEC.
- 1.0° VERT. DEFLEC.
- 1.0° VERT. DEFLEC.
- 1.0° VERT. DEFLEC.
- 1.0° VERT. DEFLEC.
- 1.0° VERT. DEFLEC.
- 1.0° VERT. DEFLEC.
- 0.2° VERT. DEFLEC.
- 11.25° HORIZ. BEND
- 0.2° VERT. DEFLEC.

[illegible]

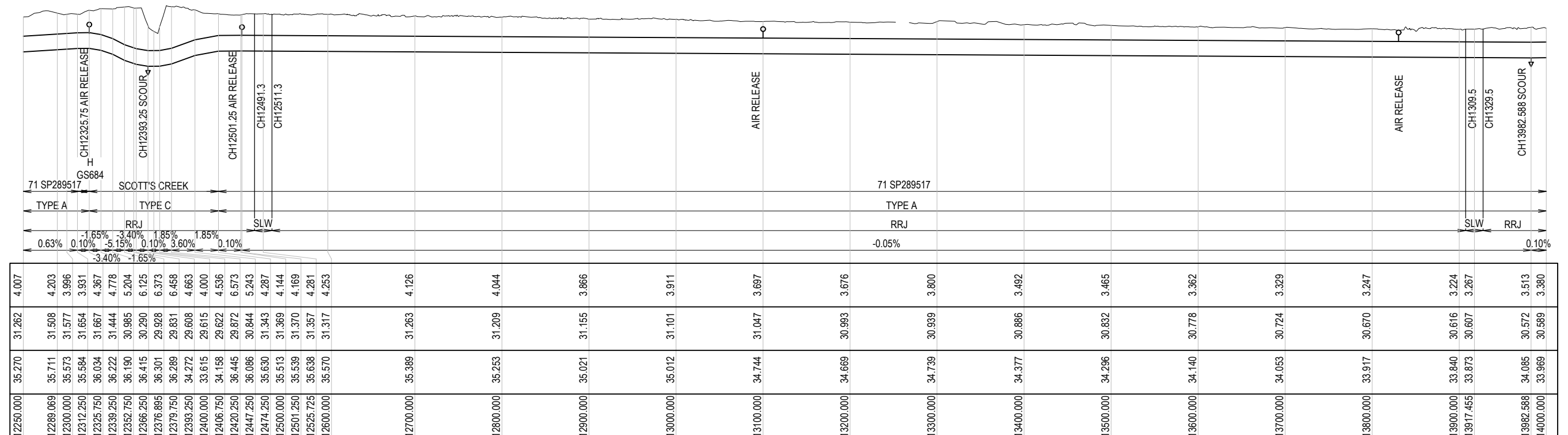
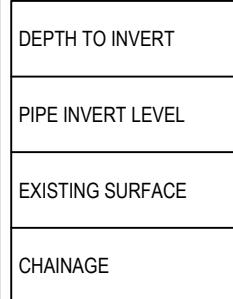
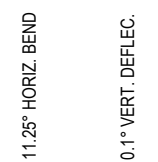
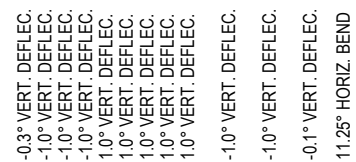


1. FOR STANDARD NOTES AND LEGEND REFER TO DRG-1002
2. PIPE/Joint DESIGNATION:
 - SLW - OD1829x12mm MSCL/SINTALOCK WELDED JOINT
 - RRJ - OD1829x12mm MSCL RRJ

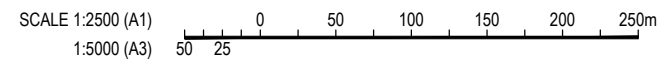
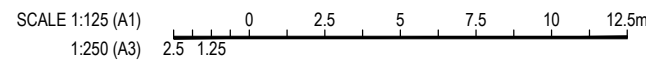
[illegible]



1. FOR STANDARD NOTES AND LEGEND REFER TO DRG-1002
2. PIPE/JOINT DESIGNATION:
 - SLW - OD1829x12mm MSCL/SINTALOCK WELDED JOINT
 - RRJ - OD1829x12mm MSCL RRJ



LONGITUDINAL SECTION
SCALE H 1:2500, V 1:250

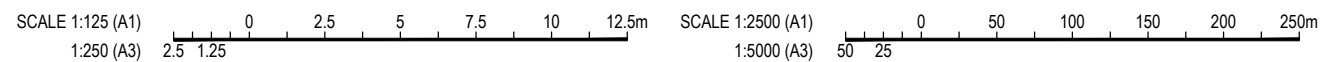


CONCEPT DESIGN ISSUE

[illegible]



1. FOR STANDARD NOTES AND LEGEND REFER TO DRG-1002
2. PIPE/Joint DESIGNATION:
 - SLW - OD1829x12mm MSCL/SINTALOCK WELDED JOINT
 - RRJ - OD1829x12mm MSCL RRJ

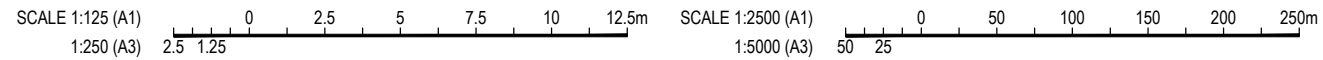


CONCEPT DESIGN ISSUE

[illegible]

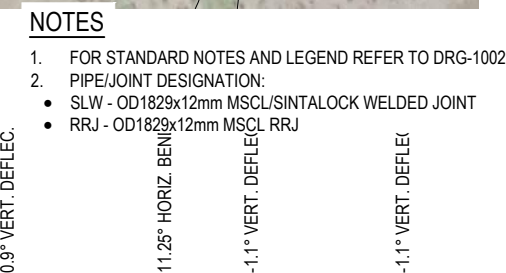


1. FOR STANDARD NOTES AND LEGEND REFER TO DRG-1002
2. PIPE/Joint DESIGNATION:
 - SLW - OD1829x12mm MSCL/SINTALOCK WELDED JOINT
 - RRJ - OD1829x12mm MSCL RRJ



CONCEPT DESIGN ISSUE

[illegible]

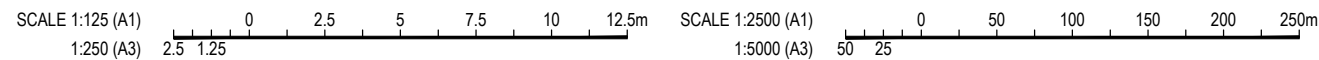


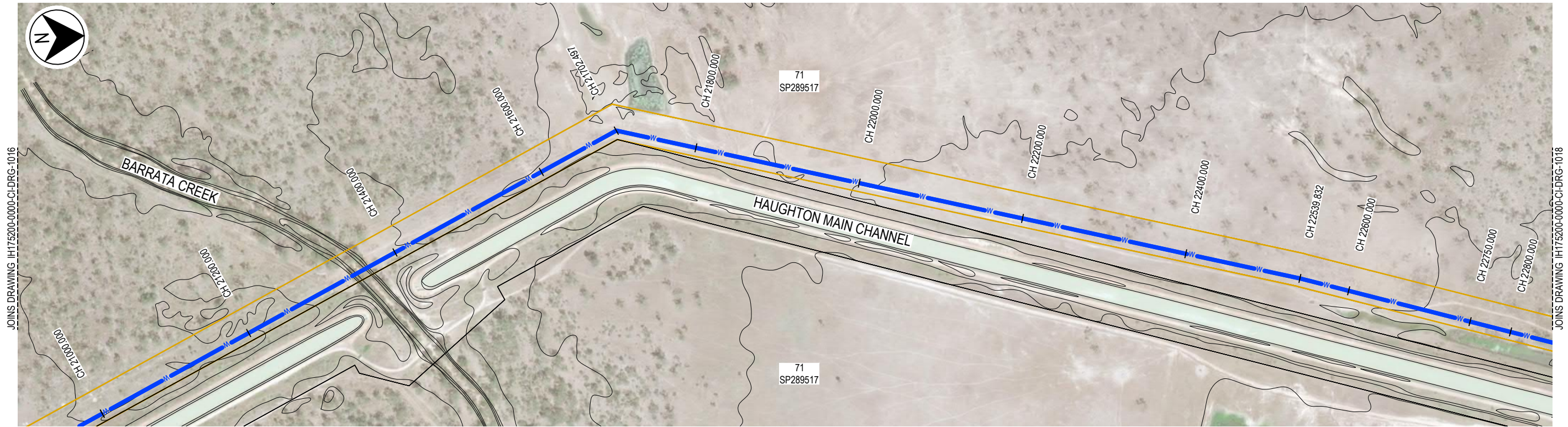
- RRJ - OD1829x12mm MSLC RRJ

[illegible]



1. FOR STANDARD NOTES AND LEGEND REFER TO DRG-1002
2. PIPE/JOINT DESIGNATION:
 - SLW - OD1829x12mm MSCL/SINTALOCK WELDED JOINT
 - RRJ - OD1829x12mm MSCL RRJ

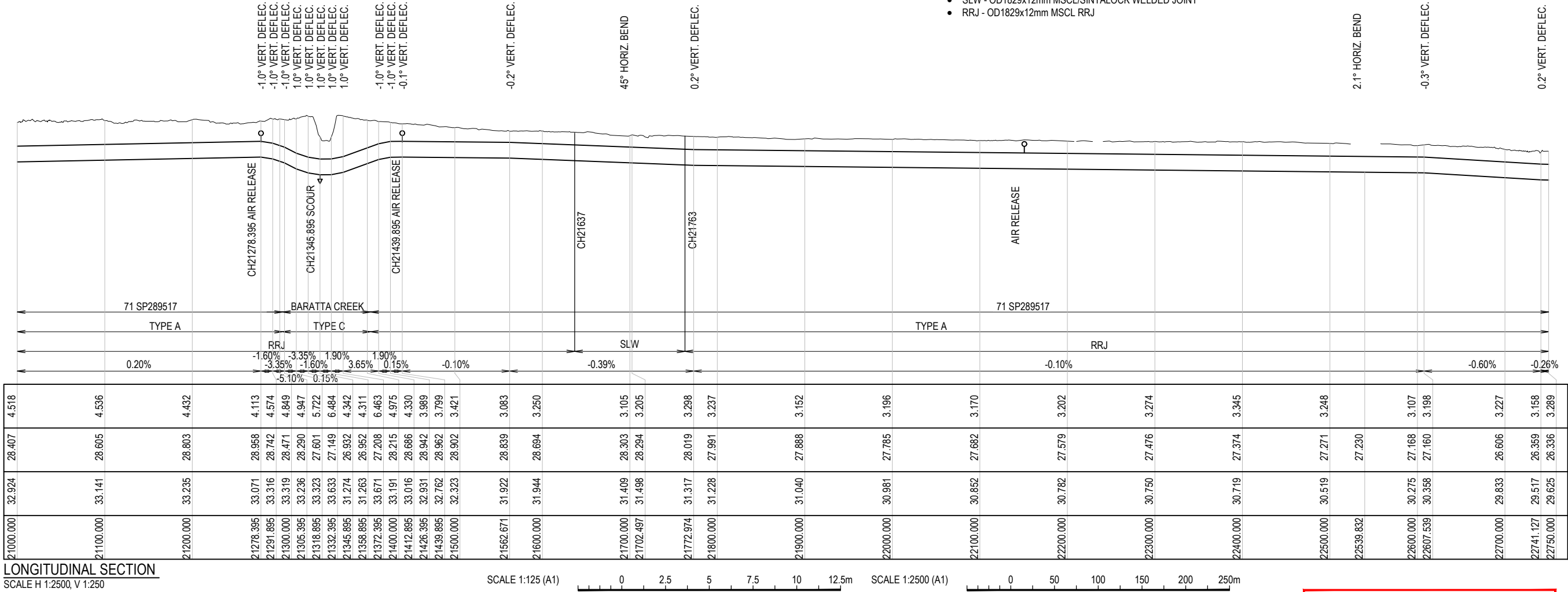
[illegible]



PLAN
SCALE 1:2500 (A1)

NOTES

- FOR STANDARD NOTES AND LEGEND REFER TO DRG-1002
- PIPE/Joint DESIGNATION:
 - SLW - OD1829x12mm MSCL/SINTALOCK WELDED JOINT
 - RRJ - OD1829x12mm MSCL RRJ



LONGITUDINAL SECTION
SCALE H 1:2500, V 1:250

SCALE 1:125 (A1) 0 2.5 5 7.5 10 12.5m
SCALE 1:2500 (A1) 0 50 100 150 200 250m
1:250 (A3) 2.5 1.25 1:5000 (A3) 50 25

CONCEPT DESIGN ISSUE

REV	DATE	DRAWN	REV'D	APP'D	REVISION	DRAWING NUMBER	REFERENCE DRAWING TITLE
B	28.05.19	LDH	MV	LH	CONCEPT DESIGN ISSUE		
A	09.05.19				PRELIMINARY ISSUE		

JACOBS

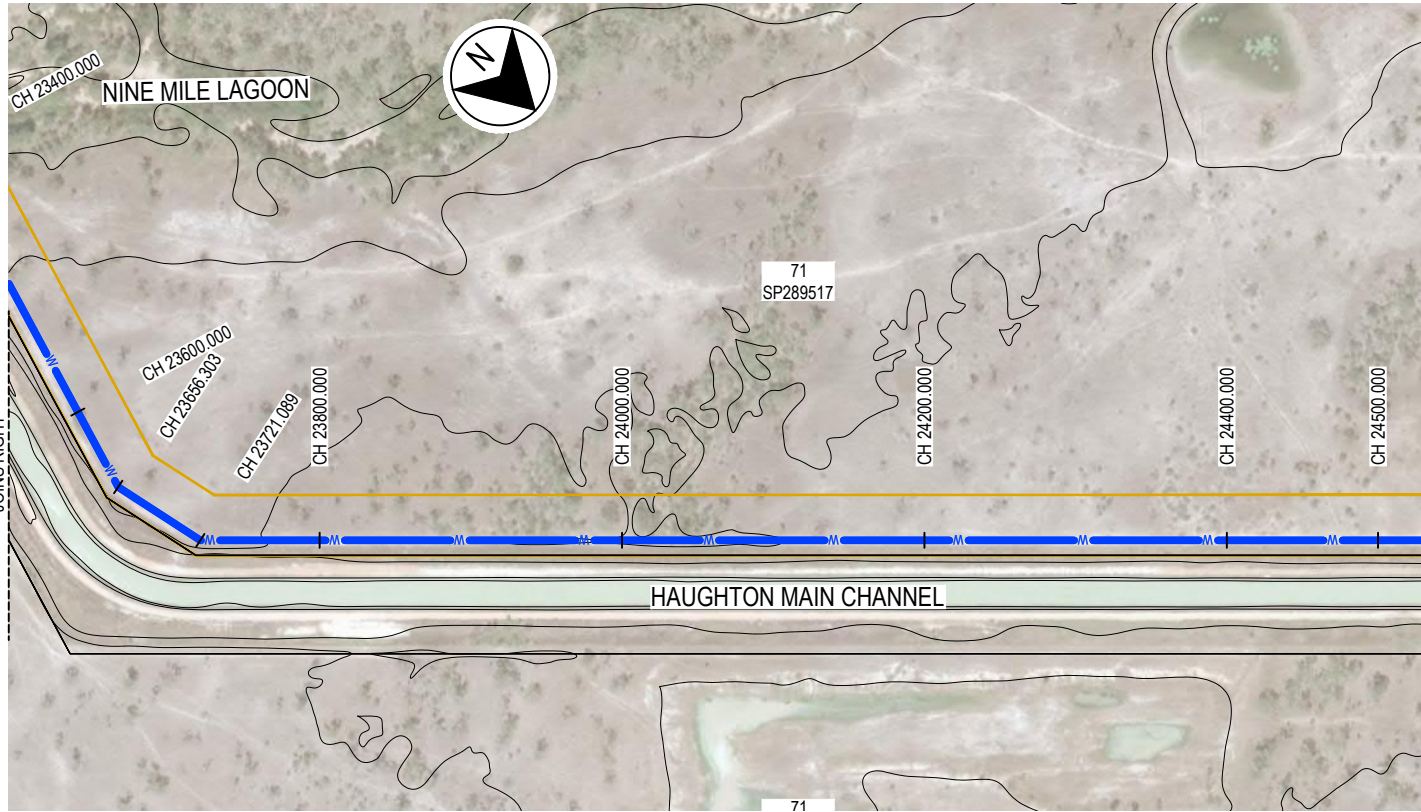
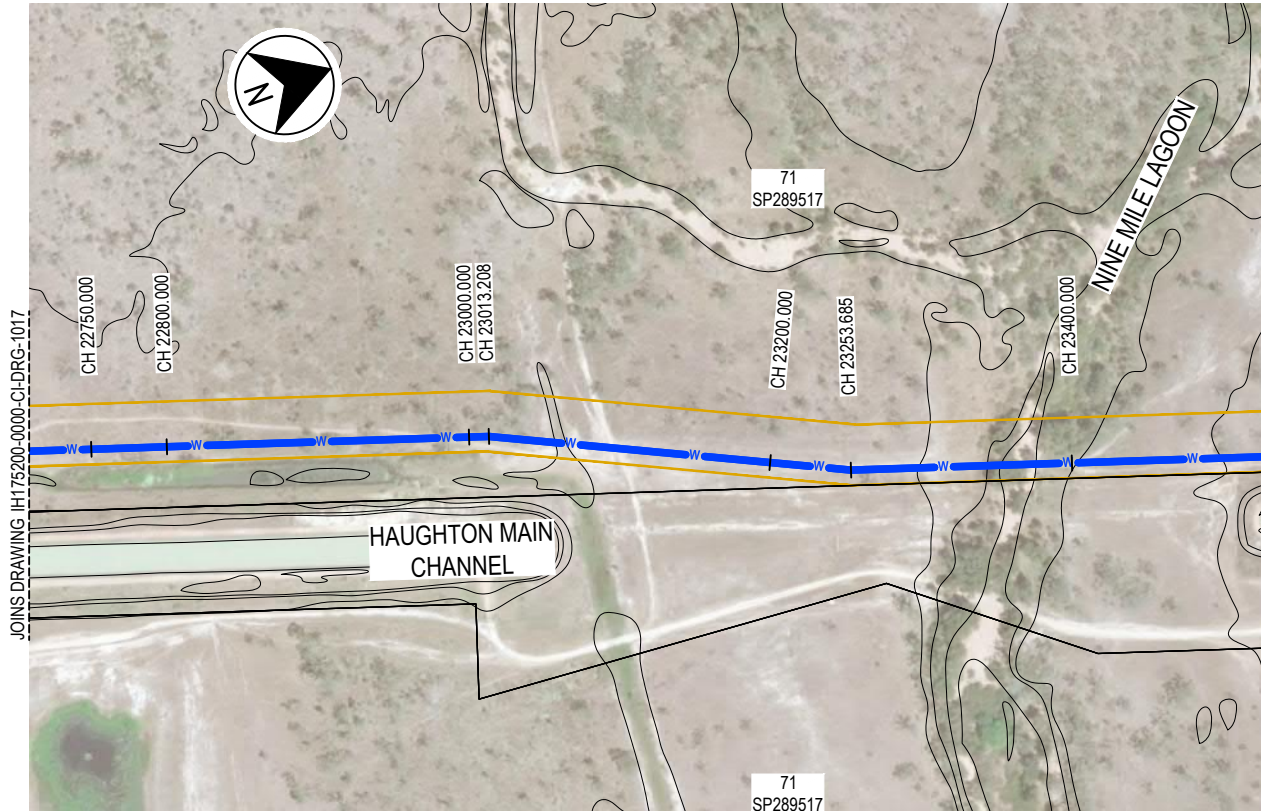
ABN 57 001 024 095 and ACN 001 024 095
Jacobs Group (Australia) Pty Ltd
444 Flinders St
Townsville, QLD 4810
AUSTRALIA
Tel: +61 7 47269100
Web: www.jacobs.com

CLIENT	DEPARTMENT OF INFRASTRUCTURE, REGIONAL DEVELOPMENT AND CITIES		
PROJECT	HAUGHTON STAGE 2 PIPELINE		
DRAWN	DRAWING CHECK	REVIEWED	APPROVED
LDH			
DESIGNED	DESIGN REVIEW	DATE	DATE

TITLE
CLARE - HAUGHTON PIPELINE
PLAN AND LONGITUDINAL SECTION
SHEET 13 OF 21

SCALE 1:2500
DRAWING No. IH175200-0000-CI-DRG-1017

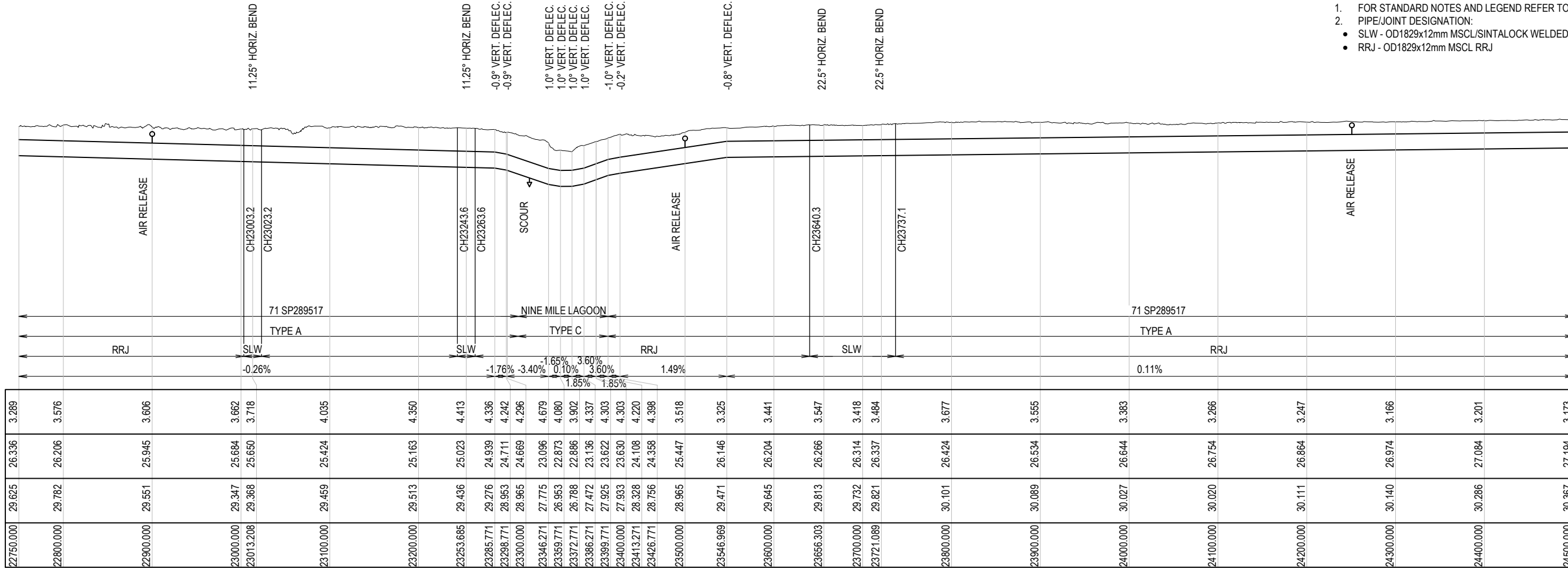
REV B



PLAN
SCALE 1:2500 (A1)

NOTES

- FOR STANDARD NOTES AND LEGEND REFER TO DRG-1002
- PIPE/Joint DESIGNATION:
 - SLW - OD1829x12mm MSCL/SINTALOCK WELDED JOINT
 - RRJ - OD1829x12mm MSCL RRJ



LONGITUDINAL SECTION
SCALE H 1:2500, V 1:250

SCALE 1:125 (A1) 0 2.5 5 7.5 10 12.5m
1:250 (A3) 2.5 1.25
SCALE 1:2500 (A1) 0 50 100 150 200 250m
1:5000 (A3) 50 25

CONCEPT DESIGN ISSUE

LOCATION
TRENCH TYPE
PIPE/Joint TYPE
PIPE GRADE (%)
DATUM RL. 0.0

DEPTH TO INVERT	3.289	3.576	3.606	3.662	3.718	4.035	4.350	4.413	4.336	4.242	4.296	4.679	4.080	3.902	4.337	4.303	4.303	4.220	4.398	3.518	3.325	3.441	3.547	3.418	3.484	3.677	3.555	3.383	3.266	3.247	3.166	3.201	3.173
PIPE INVERT LEVEL	26.336	26.206	25.945	25.684	25.650	25.424	25.163	25.023	24.939	24.711	24.669	23.096	22.873	22.886	23.136	23.622	23.630	24.108	24.358	25.447	26.146	26.204	26.266	26.314	26.337	26.424	26.534	26.644	26.754	26.864	26.974	27.084	27.194
EXISTING SURFACE	29.625	29.782	29.551	29.347	29.368	29.459	29.513	29.436	29.276	28.953	28.965	27.775	26.953	26.788	27.472	27.925	27.933	28.328	28.756	28.965	29.471	29.645	29.813	29.732	29.821	30.101	30.089	30.027	30.020	30.111	30.140	30.286	30.367
CHAINAGE	22750.000	22800.000	22900.000	23000.000	23013.208	23100.000	23200.000	23253.685	23285.771	23298.771	23300.000	23346.271	23359.771	23372.771	23386.271	23398.771	23400.000	23413.271	23426.771	23500.000	23546.969	23600.000	23656.303	23700.000	23721.089	23800.000	23900.000	24000.000	24100.000	24200.000	24300.000	24400.000	24500.000

REV	DATE	DRAWN	REV'D	APP'D	REVISION	DRAWING NUMBER	REFERENCE DRAWING TITLE
B	28.05.19	LDH	MV	LH	CONCEPT DESIGN ISSUE		
A	09.05.19				PRELIMINARY ISSUE		
REV	DATE	DRAWN	REV'D	APP'D	REVISION	DRAWING NUMBER	REFERENCE DRAWING TITLE

JACOBS

ABN 57 001 024 095 and ACN 001 024 095
Jacobs Group (Australia) Pty Ltd
444 Flinders St
Townsville, QLD 4810
AUSTRALIA

Tel: +61 7 47269100
Web: www.jacobs.com

CLIENT
DEPARTMENT OF INFRASTRUCTURE, REGIONAL DEVELOPMENT AND CITIES

PROJECT
HAUGHTON STAGE 2 PIPELINE

DRAWN
LDH

DRAWING CHECK
DESIGN REVIEW

REVIEWED
DATE

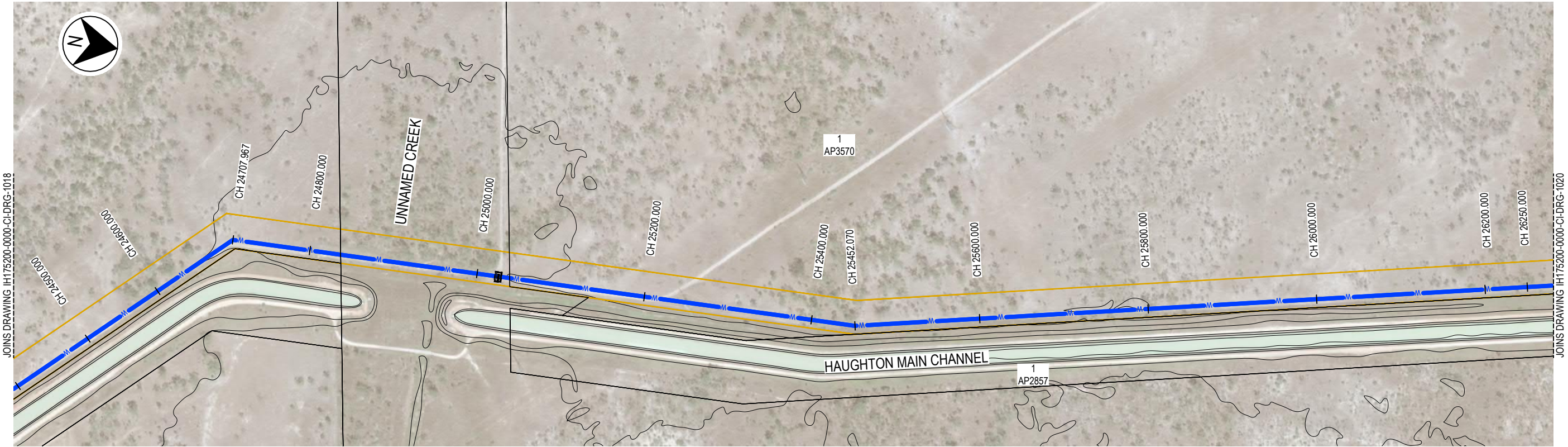
APPROVED
DATE

TITLE
CLARE - HAUGHTON PIPELINE
PLAN AND LONGITUDINAL SECTION
SHEET 14 OF 21

SCALE
1:2500

DRAWING No.
IH175200-0000-CI-DRG-1018

REV
B



PLAN
SCALE 1:2500 (A1)

- NOTES
- FOR STANDARD NOTES AND LEGEND REFER TO DRG-1002
 - PIPE/Joint DESIGNATION:
 - SLW - OD1829x12mm MSCL/SINTALOCK WELDED JOINT
 - RRJ - OD1829x12mm MSCL RRJ

-0.3° VERT. DEFLEC.
45° HORIZ. BEND
0.3° VERT. DEFLEC.
-11.25° HORIZ. BEND
-0.1° VERT. DEFLEC.

LOCATION
TRENCH TYPE
PIPE/Joint TYPE
PIPE GRADE (%)
DATUM RL. 3.0

DEPTH TO INVERT	3.173	3.102	3.102	3.020	3.000	3.051	3.178	3.374	3.381	3.543	3.703	3.917	3.698	3.910	3.998	3.712	3.362	3.238	3.012	3.021	3.262	3.458	3.401	3.341	3.505
PIPE INVERT LEVEL	27.194	27.281	27.208	27.208	26.861	26.833	26.514	26.167	26.110	26.195	26.296	26.398	26.500	26.602	26.655	26.703	26.805	26.907	27.009	27.035	26.961	26.860	26.759	26.659	26.608
EXISTING SURFACE	30.367	30.383	30.229	30.229	29.861	29.885	29.692	29.541	29.491	29.738	29.999	30.315	30.198	30.512	30.653	30.416	30.167	30.145	30.021	30.056	30.223	30.318	30.160	30.000	30.114
CHAINAGE	24500.000	24578.996	24600.000	24700.000	24707.967	24800.000	24900.000	24916.545	25000.000	25100.000	25200.000	25300.000	25400.000	25452.070	25500.000	25600.000	25700.000	25800.000	25825.908	25900.000	26000.000	26100.000	26200.000	26250.000	

LONGITUDINAL SECTION
SCALE H 1:2500, V 1:250

SCALE 1:125 (A1)
1:250 (A3)
SCALE 1:2500 (A1)
1:5000 (A3)

CONCEPT DESIGN ISSUE

REV	DATE	DRAWN	REV'D	APP'D	REVISION	DRAWING NUMBER	REFERENCE DRAWING TITLE
B	28.05.19	LDH	MV	LH	CONCEPT DESIGN ISSUE		
A	09.05.19				PRELIMINARY ISSUE		

JACOBS

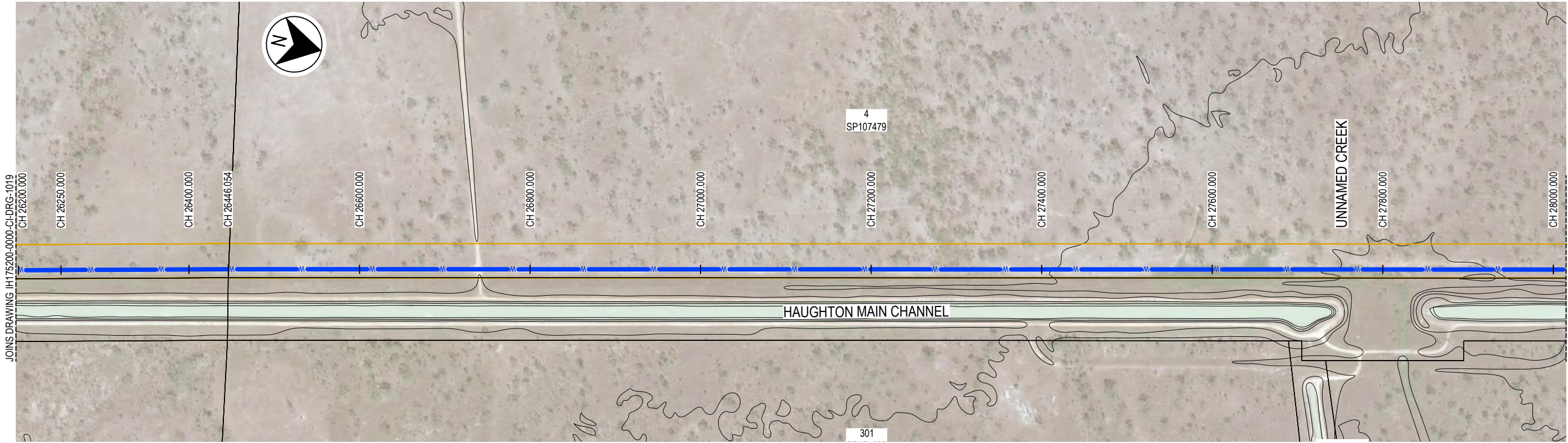
ABN 57 001 024 095 and ACN 001 024 095
Jacobs Group (Australia) Pty Ltd
444 Flinders St
Townsville, QLD 4810
AUSTRALIA
Tel: +61 7 47269100
Web: www.jacobs.com

CLIENT		DEPARTMENT OF INFRASTRUCTURE, REGIONAL DEVELOPMENT AND CITIES	
PROJECT		HAUGHTON STAGE 2 PIPELINE	
DRAWN	DRAWING CHECK	REVIEWED	APPROVED
LDH			
DESIGNED	DESIGN REVIEW	DATE	DATE

TITLE
CLARE - HAUGHTON PIPELINE
PLAN AND LONGITUDINAL SECTION
SHEET 15 OF 21

SCALE 1:2500
DRAWING No. IH175200-0000-CI-DRG-1019

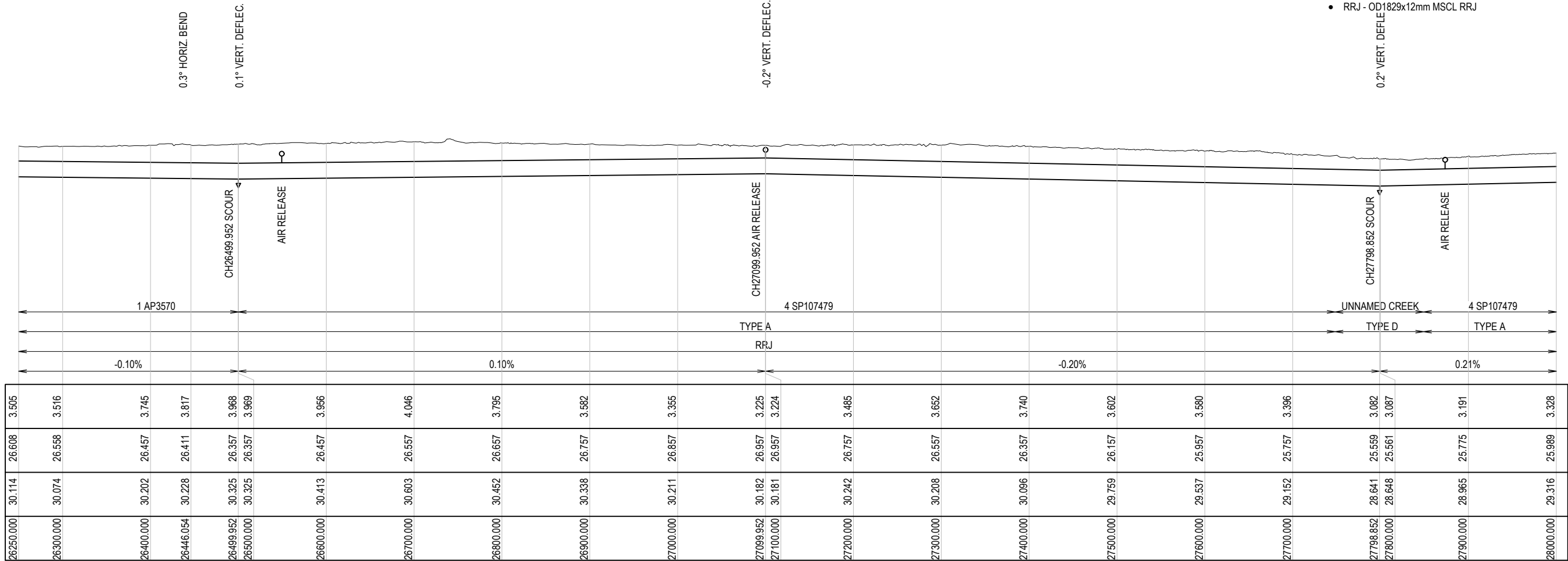
REV B



PLAN
SCALE 1:2500 (A1)

NOTES

- FOR STANDARD NOTES AND LEGEND REFER TO DRG-1002
- PIPE/Joint DESIGNATION:
 - SLW - OD1829x12mm MSCL/SINTALOCK WELDED JOINT
 - RRJ - OD1829x12mm MSCL RRJ



LONGITUDINAL SECTION
SCALE H 1:2500, V 1:250

SCALE 1:125 (A1) 0 2.5 5 7.5 10 12.5m
1:250 (A3) 2.5 1.25
SCALE 1:2500 (A1) 0 50 100 150 200 250m
1:5000 (A3) 50 25

CONCEPT DESIGN ISSUE

REV	DATE	DRAWN	REV'D	APP'D	REVISION	DRAWING NUMBER	REFERENCE DRAWING TITLE
B	28.05.19	LDH	MV	LH	CONCEPT DESIGN ISSUE		
A	09.05.19				PRELIMINARY ISSUE		

JACOBS

ABN 57 001 024 095 and ACN 001 024 095
Jacobs Group (Australia) Pty Ltd
444 Flinders St
Townsville, QLD 4810
AUSTRALIA

Tel: +61 7 47269100
Web: www.jacobs.com

CLIENT DEPARTMENT OF INFRASTRUCTURE, REGIONAL DEVELOPMENT AND CITIES			
PROJECT HAUGHTON STAGE 2 PIPELINE			
DRAWN LDH	DRAWING CHECK	REVIEWED	APPROVED
DESIGNED	DESIGN REVIEW	DATE	DATE

TITLE
CLARE - HAUGHTON PIPELINE
PLAN AND LONGITUDINAL SECTION
SHEET 16 OF 21

SCALE 1:2500
DRAWING No. IH175200-0000-CI-DRG-1020

REV B