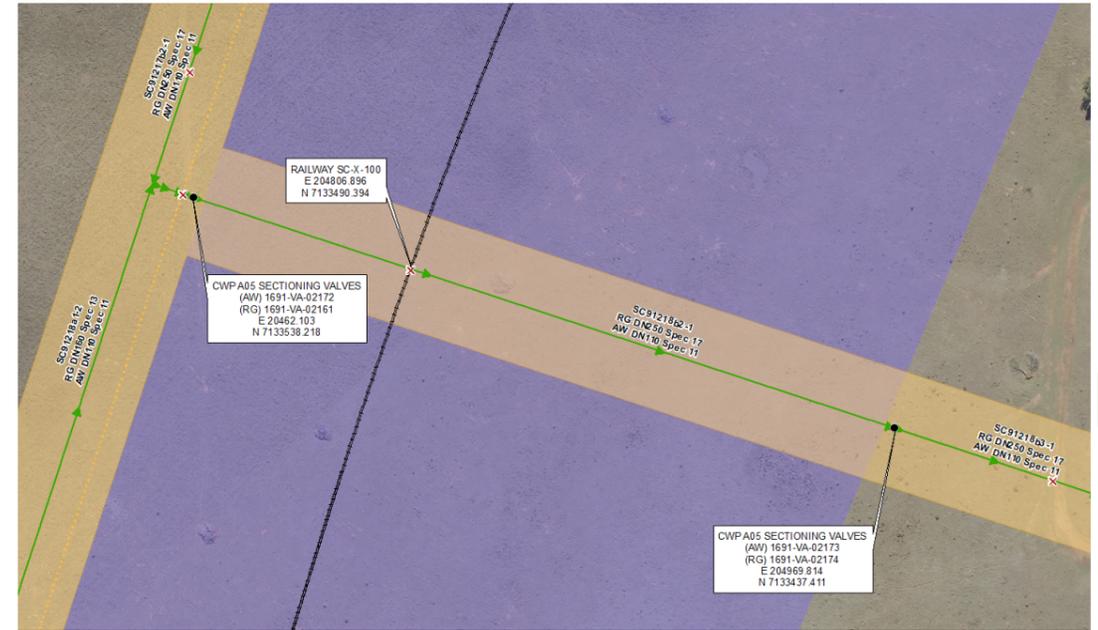


LAYER	MATERIAL	REF NOTE												
TOP SOIL	ORIGINAL MATERIAL OR IMPORTED MATERIAL OF EQUAL QUALITY	10												
BACKFILL	RESTORE TO ORIGINAL CONDITION USING EXCAVATED MATERIAL WITH: - ROCK TO 150mm - CLAY TO 100mm ROCK BACKFILL SHALL ONLY BE USED WHERE THERE IS SUFFICIENT SOFT SPOIL TO FILL THE VOIDS BETWEEN THE ROCK PIECES.	9												
PADDING	MATERIALS EXCAVATED FROM TRENCH, FREE OF ROCKS OR STONES THAT MAY DAMAGE THE PIPE OR CABLES AND COMPLYING TO THE BELOW:	9												
<table border="1"> <thead> <tr> <th>SIZE (mm)</th> <th>% PASSING</th> </tr> </thead> <tbody> <tr> <td>20</td> <td>100</td> </tr> <tr> <td>13.2</td> <td>88</td> </tr> <tr> <td>4.75</td> <td>75</td> </tr> <tr> <td>2.6</td> <td>50</td> </tr> <tr> <td>0.6</td> <td>30</td> </tr> </tbody> </table>		SIZE (mm)	% PASSING	20	100	13.2	88	4.75	75	2.6	50	0.6	30	
SIZE (mm)	% PASSING													
20	100													
13.2	88													
4.75	75													
2.6	50													
0.6	30													
PADDING	NO VOIDS ARE TO BE LEFT UNDER OR AROUND THE PIPE.													
BEDDING	MATERIAL AS ABOVE. SAND BAGS TO BE USED AS REQUIRED TO PREVENT DAMAGE TO PIPES AND CABLES, SUCH AS WHEN INSTALLED IN A ROCK CUT.	9												

PLANS AND DOCUMENTS referred to in the SDA APPROVAL

SDA approval: AP2023/010

- NOTES:**
- ALL DIMENSIONS IN mm.
 - PIPELINE CONSTRUCTION INCLUDING TRENCHING INSTALLATION, BACKFILL AND COMPACTION TO COMPLY WITH APGA CODE OF PRACTICE AND SANTOS EXCAVATION PROCEDURES SMS-HSS-0502-PD02.
 - ARRANGEMENT SHOWN IS TYPICAL, ALTERNATE TRENCH ARRANGEMENTS MAY BE INSTALLED, PROVIDED THEY MEET THE SEPARATION REQUIREMENTS SPECIFIED IN 1500-040-SEC-0001.
 - ORDER OF PREFERENCE FOR INCREASED SEPARATION DISTANCE BETWEEN SERVICES:
- POWER CABLE AND OTHER SERVICES
- PIPELINE AND TRENCH WALL
- PIPELINES
 - MARKER TAPE DESIGN SHALL COMPLY WITH AS 2648 REQUIREMENTS, TO BE INSTALLED AT:
- NO LESS THAN 400mm ABOVE THE PIPE/CABLE TO A MAXIMUM OF 900mm ABOVE THE PIPE/CABLE.
- NO LESS THAN 300mm BELOW GRADE.
 - MECHANICAL CABLE PROTECTION COMPLYING WITH AS 4702 SHALL BE PLACED NOT MORE THAN 75mm ABOVE THE CABLES. IT SHALL NOT BE LESS THAN 150mm WIDE AND SHALL OVERLAP THE CABLES BY A MINIMUM OF 40mm ON EACH SIDE.
 - MARKER SIGNS ARE TO BE INSTALLED AT INTERVALS COMPLYING WITH APGA CODE OF PRACTICE.
 - DEPTH OF BACKFILL TO BE SITE DETERMINED BASED ON DEPTH OF TOP SOIL AND DEPTH OF COVER.
 - BACKFILL SHALL BE PLACED AND COMPACTED IN SUCH A WAY THAT ENSURES NO DAMAGE IS DONE TO THE PIPES OR CABLES AND NO VOIDS ARE LEFT AROUND THE PIPE.
 - BACKFILL SHALL BE COMPACTED MECHANICALLY OR BY 3 PASSES OF A 5 TONNE VEHICLE, ROLLING TO A DENSITY THAT ACHIEVES SETTLEMENT IN THE TRENCH THAT DOES NOT RESULT IN THE SURFACE OVER THE TRENCH SUBSIDING.
 - POWER CABLE TO BE DE-ENERGISED WHEN EXCAVATING OR UNDERTAKING WORKS ON ANY SERVICE WITHIN THE TRENCH.
 - GATHERING NETWORK CONSTRUCTION TO BE UNDERTAKEN PRIOR TO CONSTRUCTION OF THE PROPOSED RAILWAY CROSSING
 - THE PIPELINE SHALL BE INSTALLED LEVEL AND STRAIGHT ACROSS THE RAILWAY EASEMENT SHOWN. CROSSING ANGLE TO BE AS PER ALIGNMENT SHEETS AND AT 90 DEGREES +/- 5 DEGREES.
 - METHOD OF CONSTRUCTION FOR THE PROPOSED RAILWAY CROSSING SHALL BE OPEN TRENCH AS PER SANTOS APPROVED PROCEDURES.
 - THE PURPOSE OF THIS DRAWING IS ONLY TO SHOW THE EXTENT OF THE CROSSING BETWEEN THE GATHERING AND PROPOSED RAILWAY EASEMENT. IT IS NOT ENGINEERED AS A PROPER RAILWAY CROSSING. THE GATHERING SECTION THAT FALLS WITHIN THE BOUNDS OF THE RAILWAY EASEMENT SHALL BE BUILT IN ACCORDANCE WITH AS4799 AND QUEENSLAND RAIL'S STANDARDS SHOULD THE RAILWAY BE APPROVED.



Construction Disturbance Zone

Railway Easement

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REVISIONS

No	DATE	DRN	CHKD	ENG	SANTOS Q.A.	PROJ NO.	RE NAME	RE NO.	RE COMPANY	DESCRIPTION	DRG No.	SUBJECT
0	25/05/23	FYF	LJM	GZU	600018861	G.UJVARI	10116	FYFE	ISSUED FOR INFORMATION	1691-050-PKP-0059	BRANCH A05-A PIPELINE KEY PLAN	
										1691-061-SLD-0031	SINGLE LINE DIAGRAM - FEEDER 1	

REFERENCE DRAWINGS

DRN:	FYF	SANTOS Q.A.:	
DATE:	25/05/23	PROJ NO.:	600018861
SCALE:	NTS	RE NAME:	G.UJVARI
CHKD:	LJM	RE NO.:	10116
ENG:	GZU	RE COMPANY:	FYFE

A.B.N. 12 131 271 648

AREA 1691 - SCOTIA FIELDS
SBIC SDA CROSSING - AVALON
SERVICE LAYOUT DRAWING
OPEN TRENCH - SC91-218B2 PROPOSED RAILWAY CROSSING

Santos GLNG DRAWING No. 1691-040-LAY-0003 REV 0

10 AREA 1691 - SBIC SDA CROSSING - AVALON - SERVICE LAYOUT DRAWING A1SHEET

DATE: May 22, 2023 - 11:59am
 PLOTTED BY: jws
 FILE: \\fyfe07.com.au\local\Projects\Brisbane\10000\13000\13104\13104-67 SCOTIA AM23 GBEN03_Eng\0304_Pipe\02 Railway Crossing Layout Drawing\01 Native\00304_1691-040-LAY-0003_0.dwg