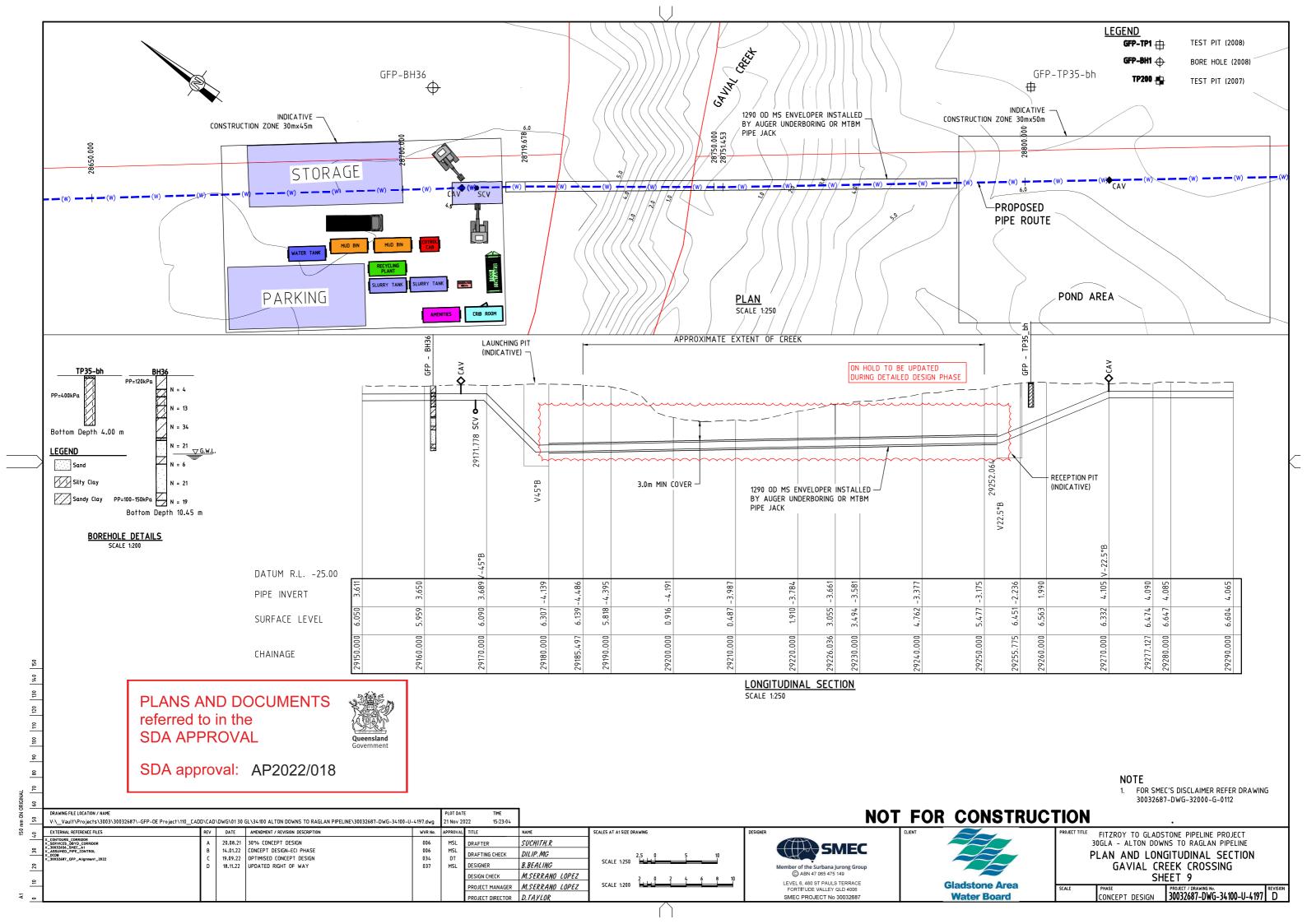
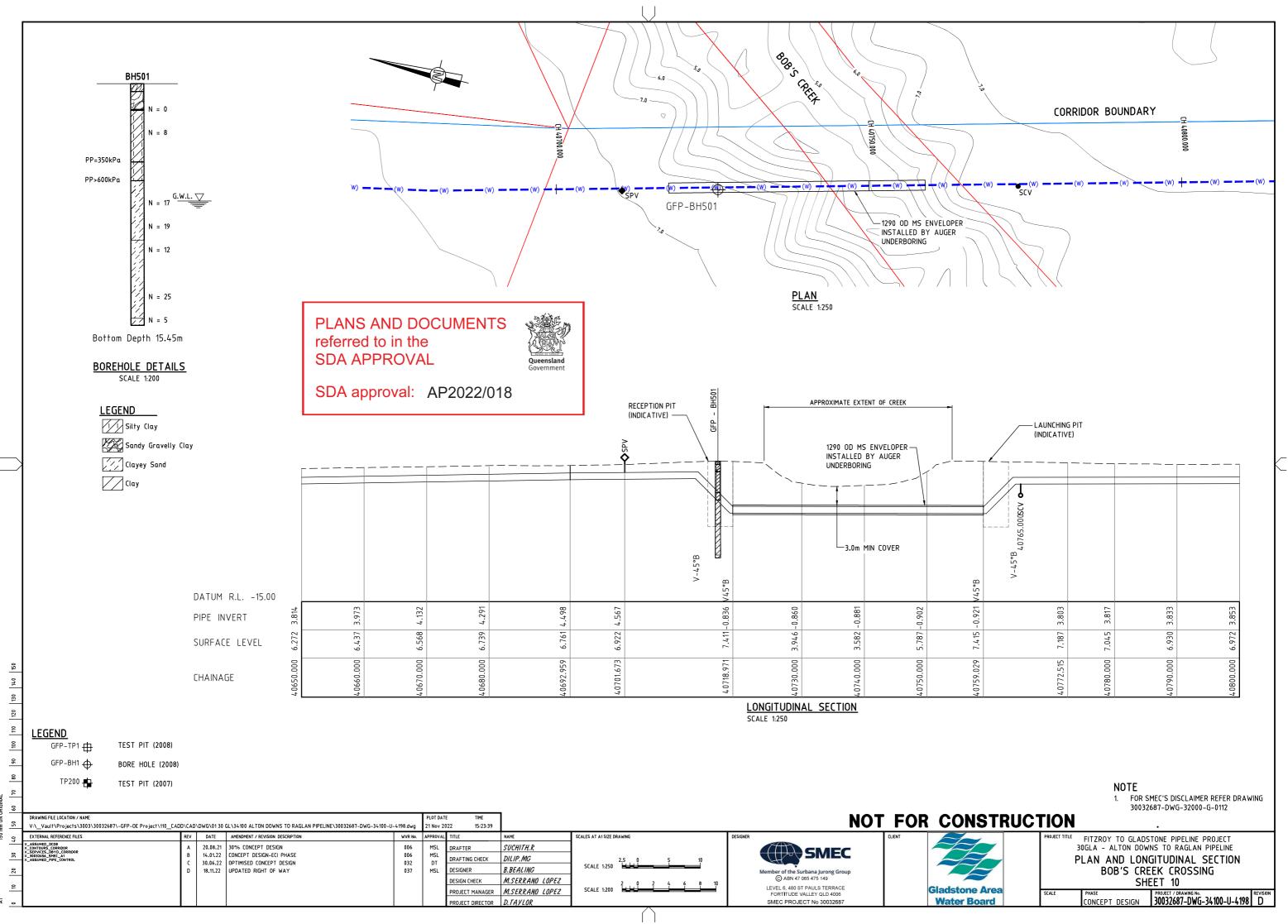


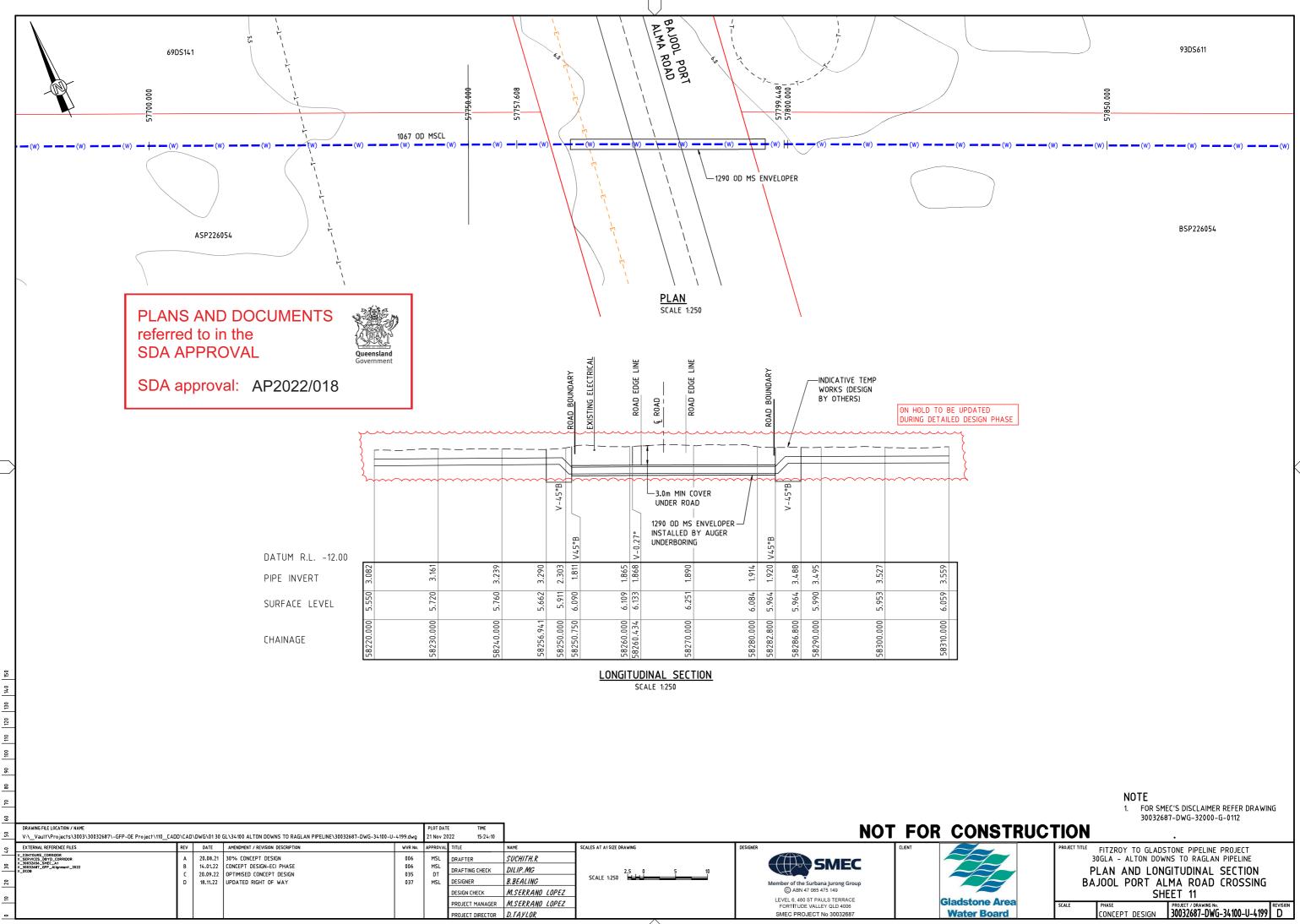
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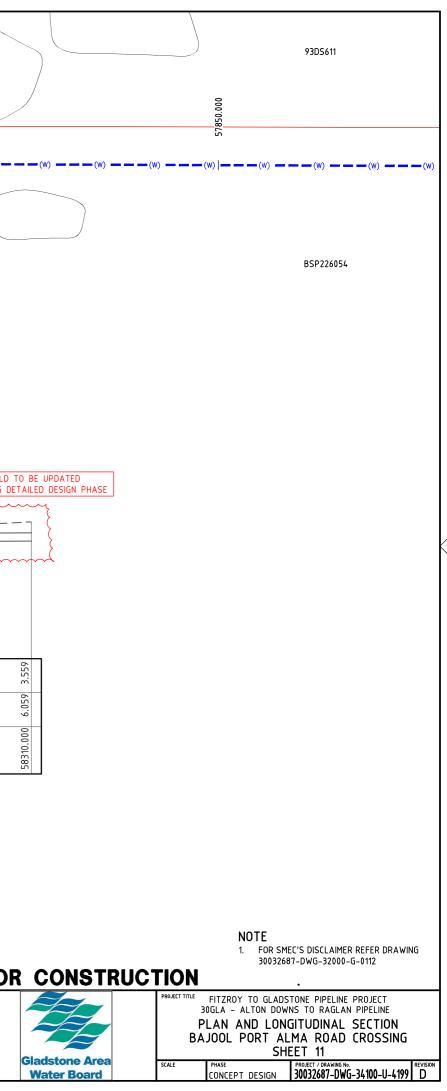


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## FITZROY TO GLADSTONE PIPELINE PROJECT RAGLAN TO ALDOGA PIPELINE : 34200 COVER SHEET

#### GENERAL

#### DRAWING No.

30032656-DWG-34200-G-6000

#### **CIVIL WORKS**

#### DRAWING No.

30032656-DWG-34200-C-6003 30032656-DWG-34200-C-6014 30032656-DWG-34200-C-6016 30032656-DWG-34200-C-6017 30032656-DWG-34200-C-6018 30032656-DWG-34200-C-6020 30032656-DWG-34200-C-6021 30032656-DWG-34200-C-6022 30032656-DWG-34200-C-6034 TITLE KEY PLAN LAYOUT PLAN - SHEET 1 LAYOUT PLAN - SHEET 2 LAYOUT PLAN - SHEET 3 LAYOUT PLAN - SHEET 4 LAYOUT PLAN - SHEET 5 LAYOUT PLAN - SHEET 6 LAYOUT PLAN - SHEET 7 LAYOUT PLAN - SHEET 8 LAYOUT PLAN - SHEET 9 PLAN AND LONG SECTION - GENERAL NOTES & LEGEND

#### GEOTECHNICAL

#### DRAWING No.

14.0 150

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30032656-DWG-34200-U-6150 30032656-DWG-34200-U-6151 30032656-DWG-34200-U-6152 30032656-DWG-34200-U-6153

#### <u>TITLE</u>

TITLE

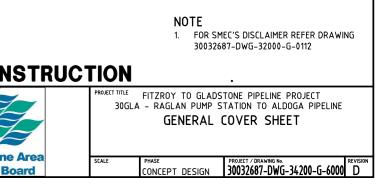
COVER SHEET

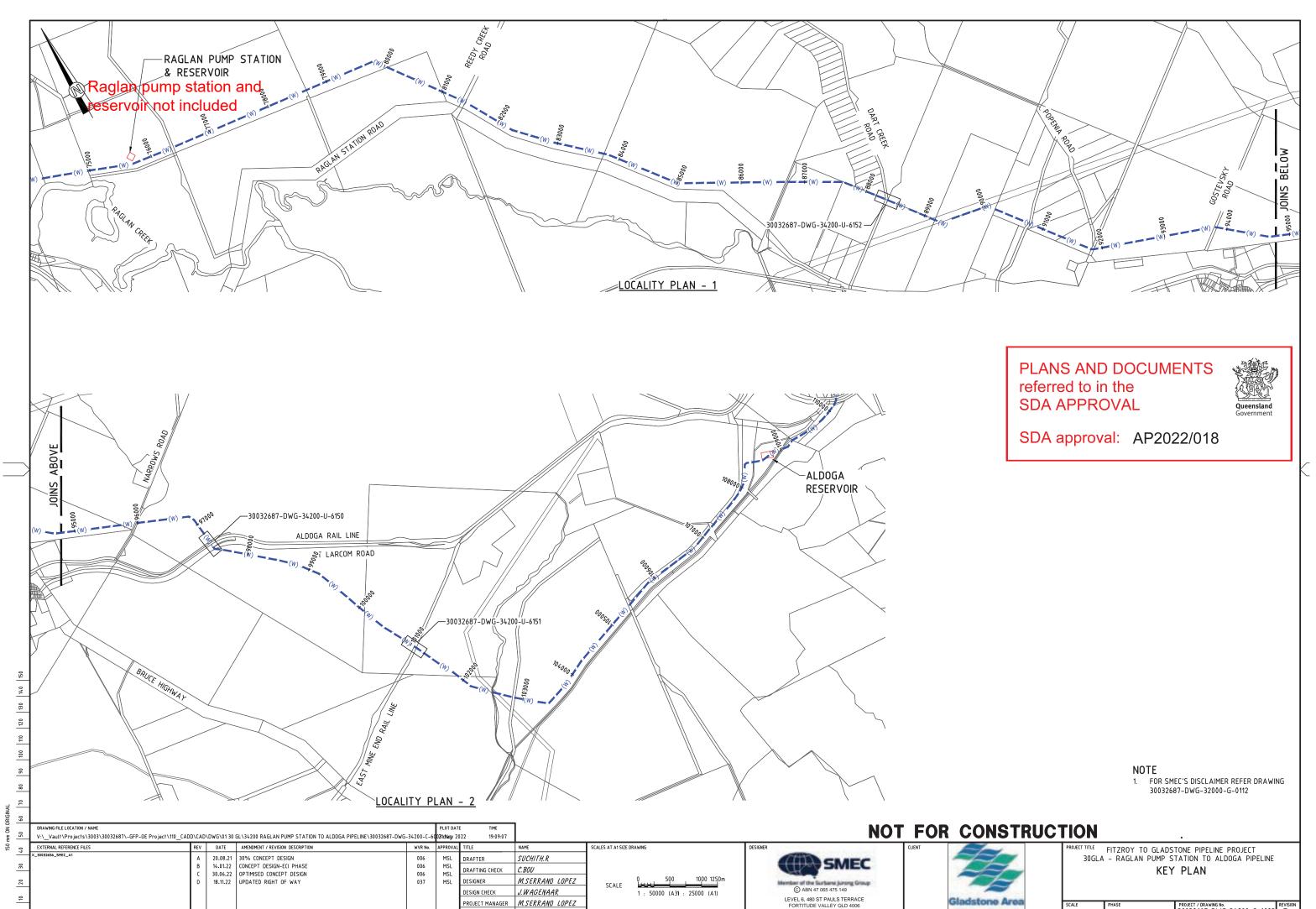
MT LARCOM ROAD / ALDOGA RAIL CROSSING - PLAN AND LONG SECTION EAST END MINE RAIL LINK CROSSING - PLAN AND LONG SECTION DART'S CREEK ROAD CROSSING - PLAN AND LONG SECTION - ALTERNATIVE ROUTE LARCOM CREEK CROSSING - PLAN AND LONG SECTION - ALTERNATIVE ROUTE

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	C		OPTIMISED CONCEPT DESIGN	006	MSL				ALX.			
	D	18.11.22	UPDATED RIGHT OF WAY	037	MSL	DESIGNER	M.SERRANO LOPEZ		Member of	of the Surbana Jurong Group		
						DESIGN CHECK	J.WAGENAAR		© /	ABN 47 065 475 149		
						PROJECT MANAGER	M.SERRANO LOPEZ			6, 480 ST PAULS TERRACE TUDE VALLEY QLD 4006		Gladstor
						PROJECT DIRECTOR		1		PROJECT No 30032687		Water

PLANS AND DOCUMENTS referred to in the SDA APPROVAL





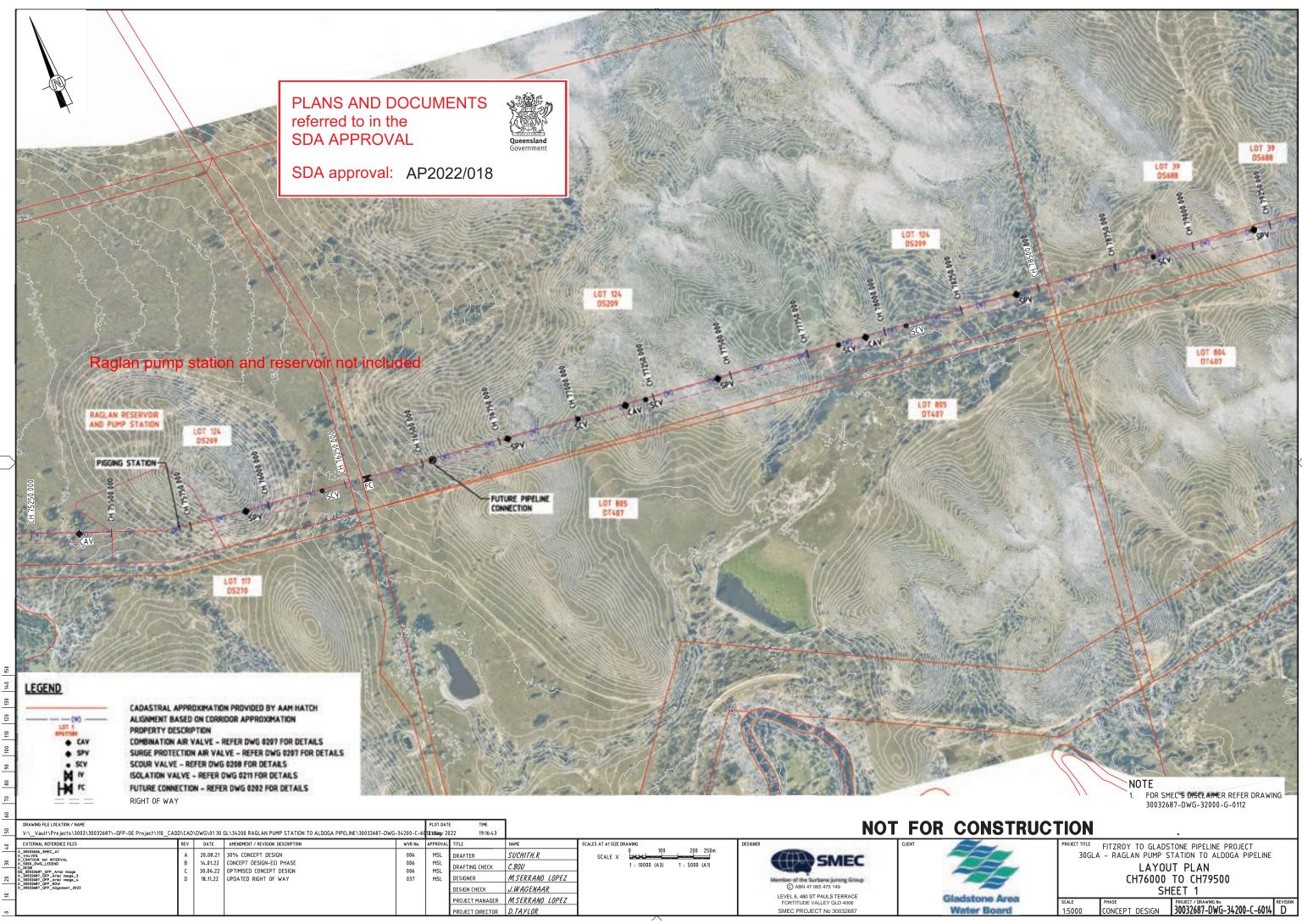


PROJECT DIRECTOR D. TAYLOR

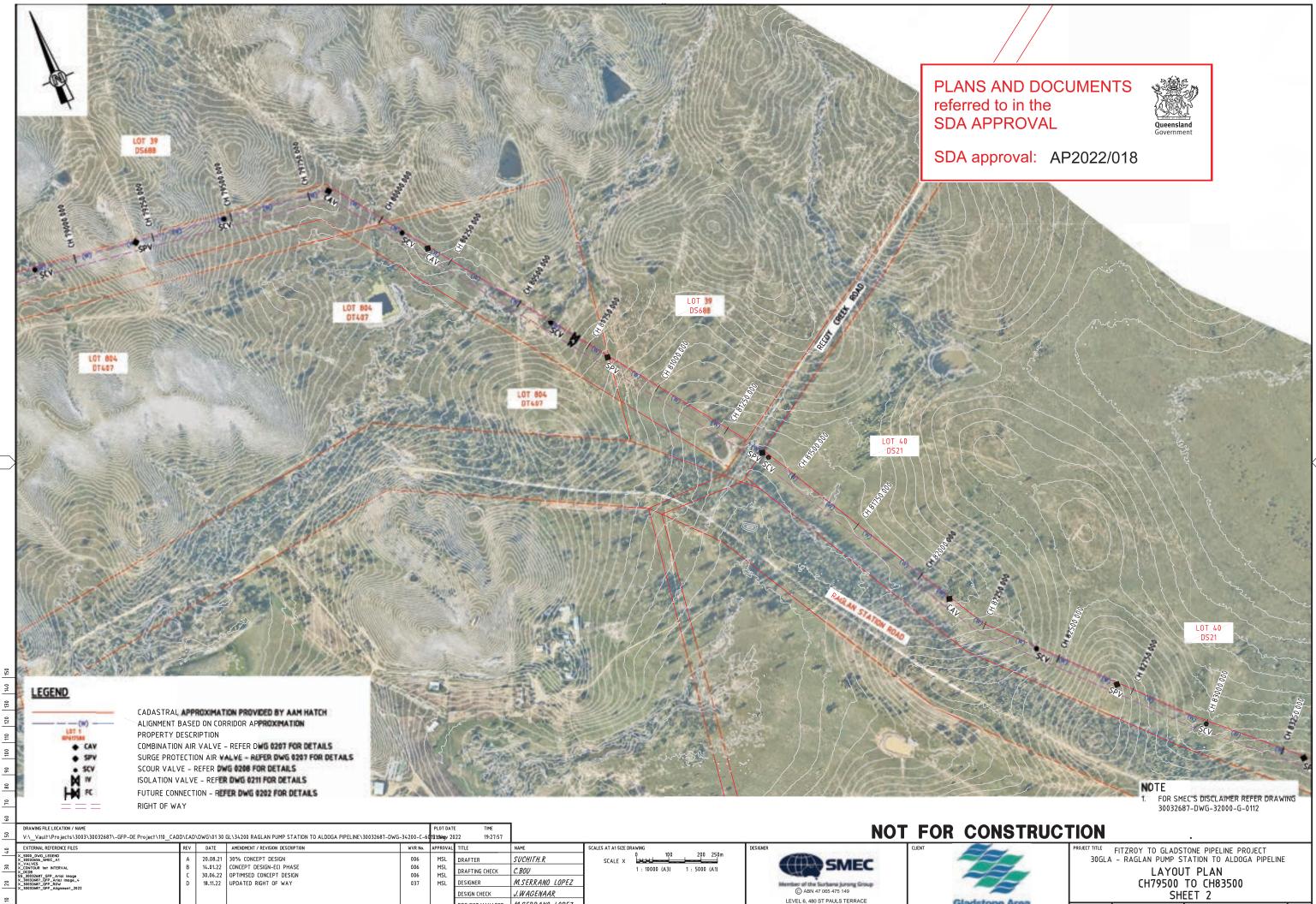
CONCEPT DESIGN 30032687-DWG-34200-C-6003 D	PHASE	PROJECT / DRAWING No.	REVISION
	CONCEPT DESIGN	30032687-DWG-34200-C-6003	D

Water Board

SMEC PROJECT No 30032687



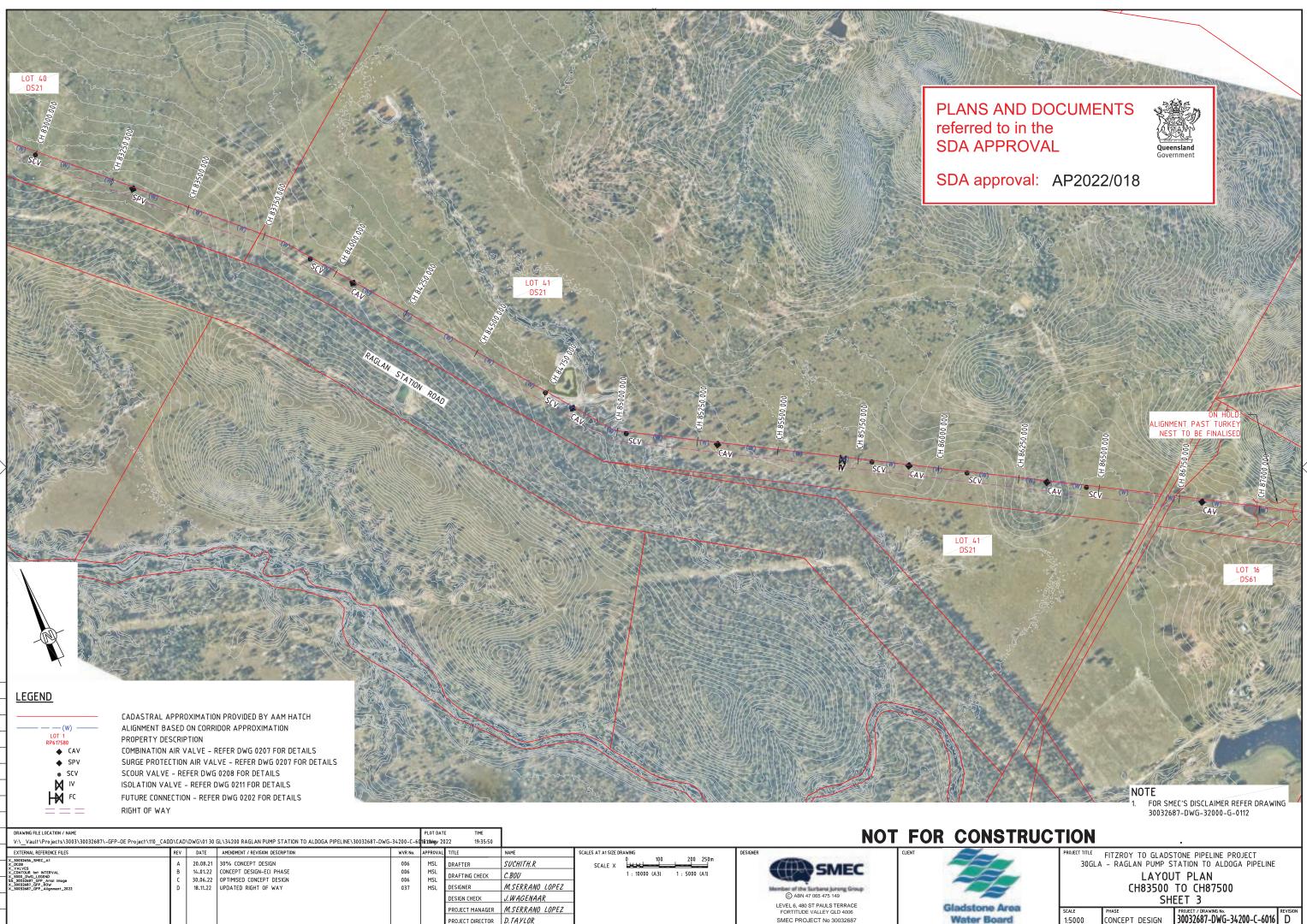
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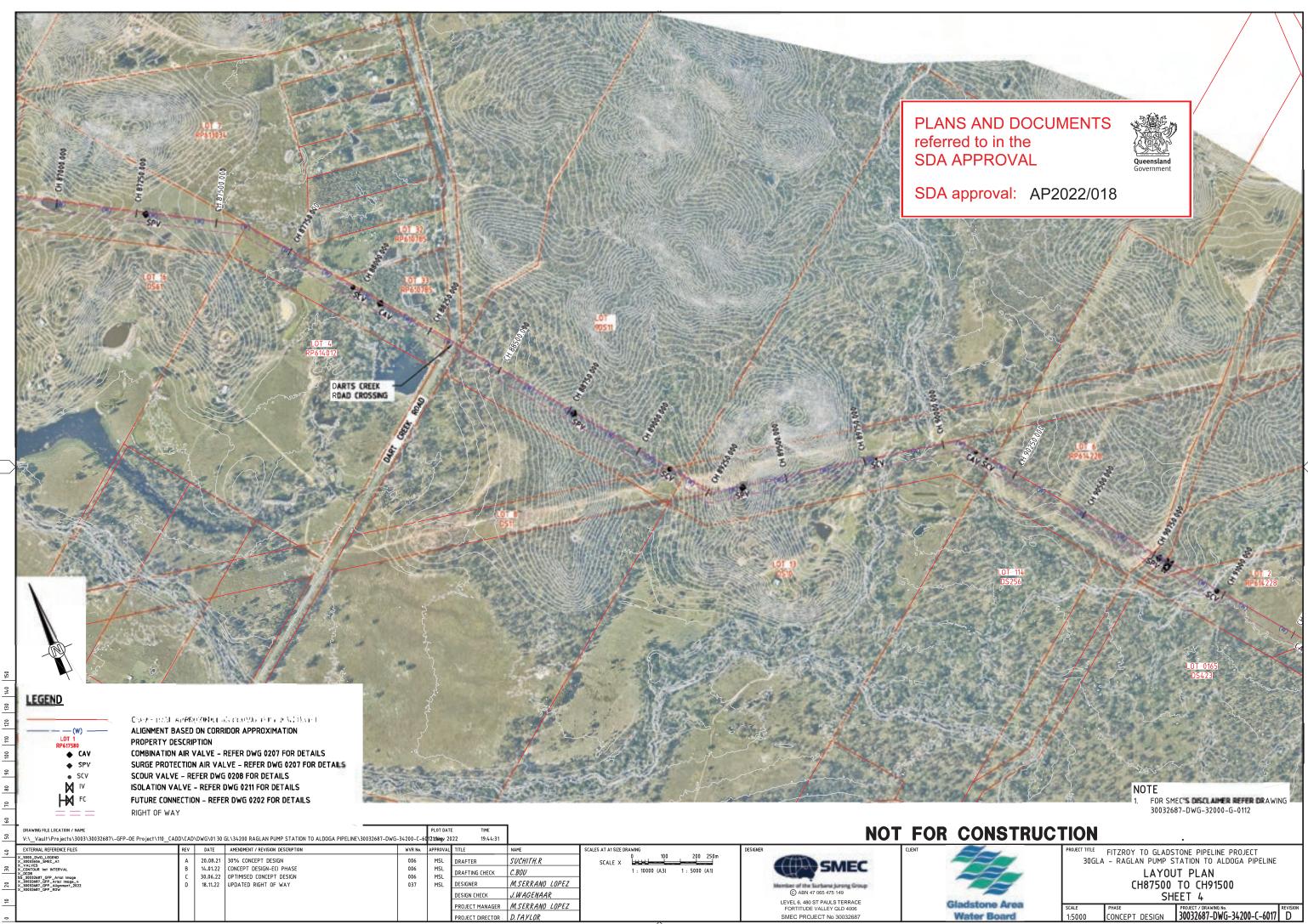
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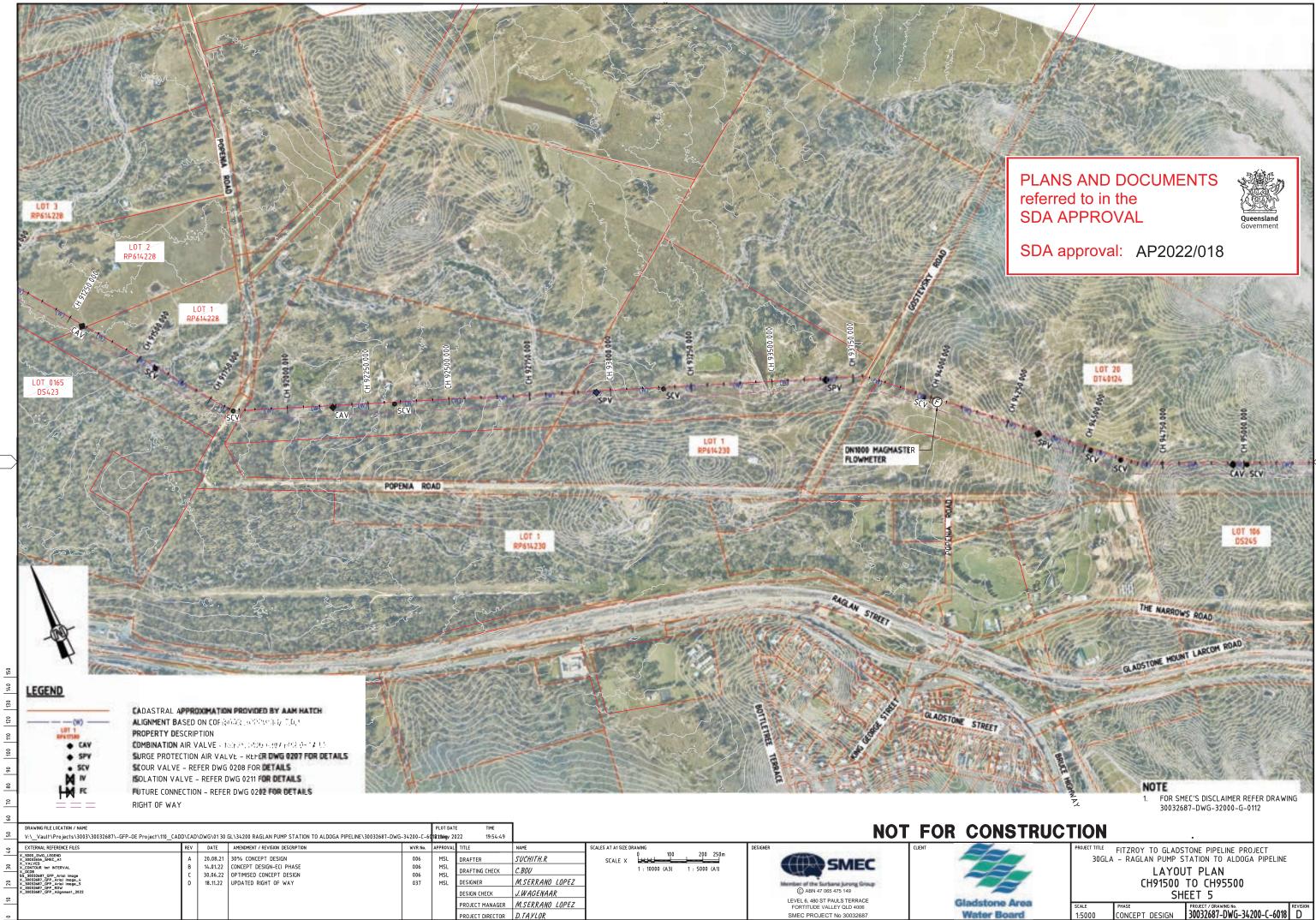
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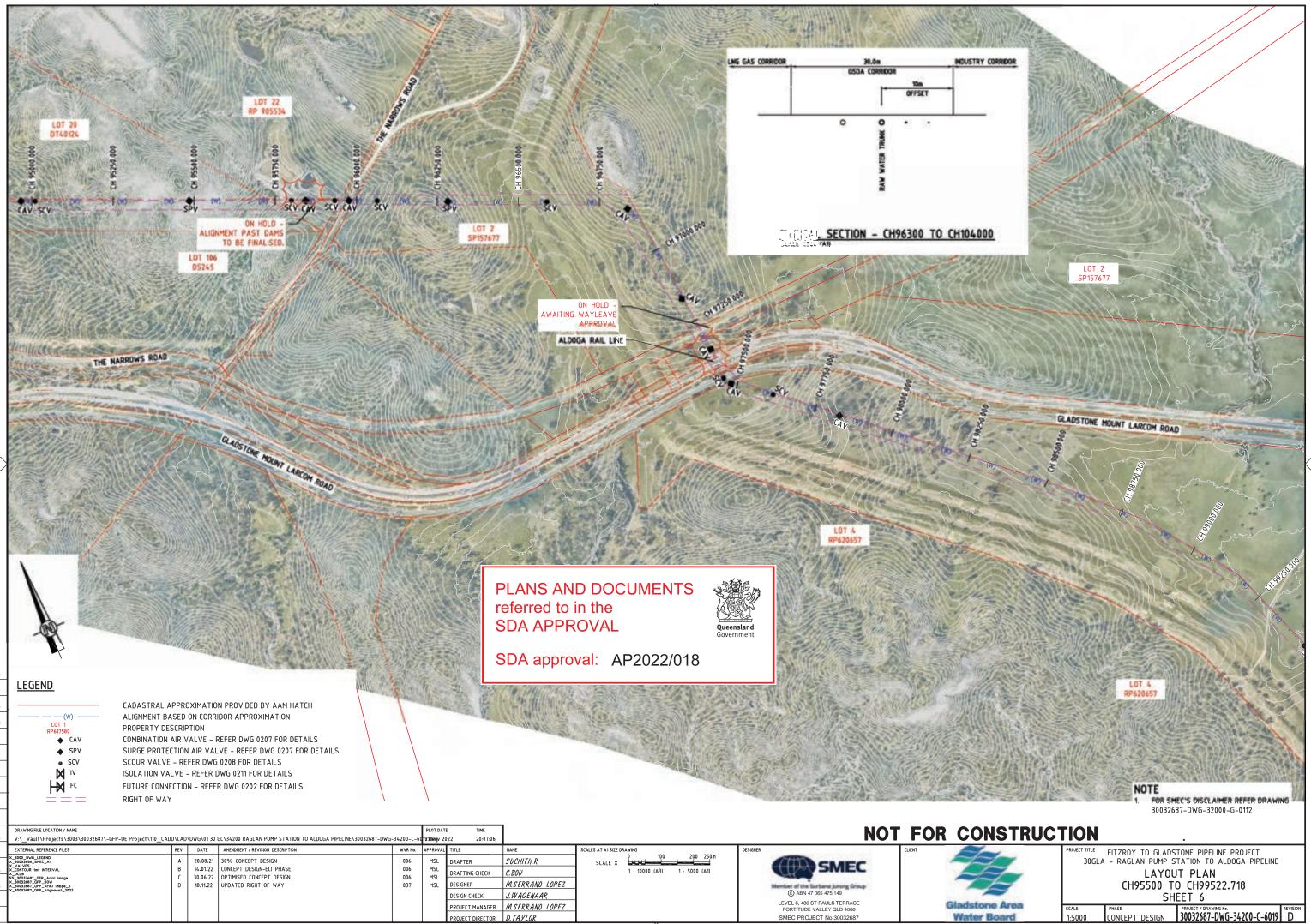
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A1	。							PROJECT DIRECTOR	D.TAYLOR		SMEC PROJECT No 3003268	37	Water Board
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TANDARD PIPELINE NOTES:	LEGEND	
SERVICES SHOWN ARE APPROXIMATE ONLY AND ARE THOSE RECEIVED FROM DBYD TO DATE (VALID FOR		CADASTRAL APPROXIMATION BASED ON
LIMITED PERIOD). EXACT LOCATION TO BE DETERMINED ON SITE.		STANWELL-GLADSTONE INFRASTRUCTU BASED ON CADASTRAL APPROXIMATION
BOREHOLES SHOWN ARE APPROXIMATE ONLY AND ARE THOSE RECEIVED TO DATE. EXACT LOCATION TO BE DETERMINED ON SITE.		GLADSTONE STATE DEVELOPMENT ARE A BASED ON CADASTRAL APPROXIMATION
MINIMUM PIPELINE COVER = 900mm (EXCEPT IN FLOOD PRONE AREAS)	(W)	PRELIMINARY ALIGNMENT BASED ON COR
MINIMUM PIPELINE COVER IN FLOOD PRONE AREAS = 1200mm (CH 4100 TO CH 44300 & CH 49400 TO 75000)	LOT 1 RP617580	PROPERTY DESCRIPTION
MAXIMUM PIPELINE COVER = 3500mm	¢ ∧cav	COMBINATION AIR VALVE (PLAN & L.S.) -
MINIMUM PIPELINE COVER UNDER ROADS = 900mm	CAV Y	30032656-DWG-34000-C-0207 FOR DETA
MINIMUM PIPELINE COVER UNDER CREEKS = 1200mm	spv ∳	SURGE PROTECTION AIR VALVE (PLAN &
MAXIMUM DESIGN PRESSURE FOR PIPELINE = 210m	SPV <b>Y</b>	30032656-DWG-34000-C-0207 FOR DETA
	SCV SCV	SCOUR VALVE (PLAN & L.S.) - REFER DW 30032656-DWG-34000-C-0208 FOR DETA
	X ≥	ISOLATION VALVE (PLAN & L.S.) – REFEF 30032656-DWG-34000-C-0211 FOR DETA
TANDARD CROSSING NOTES:	Ē	
TANDARD CROSSING NOTES: REFER TO PIPELINE LONG PROFILE DRAWINGS FOR DETAILS OF PIPE AND FITTINGS	(F) V(-) 11.25°B + 3.83°	
REFER TO PIPELINE LONG PROFILE DRAWINGS FOR DETAILS OF PIPE AND FITTINGS		30032656-DWG-34000-C-0209 FOR DET/
REFER TO PIPELINE LONG PROFILE DRAWINGS FOR DETAILS OF PIPE AND	V(-) 11.25°B + 3.83°	
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REFER TO PIPELINE LONG PROFILE DRAWINGS FOR DETAILS OF PIPE AND FITTINGS ALL PIPE JOINTS TO BE WELDED WITHIN CONCRETE ENCASEMENT SECTION AND ENCASING PIPE CLASS AND DETAILS OF ENCASING PIPE TO BE DETERMINED BY SPECIALIST DRILLING CONTRACTOR. REINFORCED CONCRETE ENCASING PIPE TO BE USED FOR RAIL CROSSINGS AND COMBINED ROAD & RAIL CROSSINGS. FOR ALL OTHER CROSSINGS, TYPE OF ENCASING PIPE TO BE DETERMINED BY SPECIALIST DRILLING CONTRACTOR AND APPROVED BY PRINCIPAL CONTRACTOR.	V(-) 11.25°B + 3.83° V-3.83° H(-) 11.25°B + 3.83° H-3.83° OF G	30032656-DWG-34000-C-0209 FOR DET VERTICAL BEND WITH PIPE DEFLECTIONS VERTICAL PIPE DEFLECTIONS HORIZONTAL BEND WITH PIPE DEFLECTIO HORIZONTAL PIPE DEFLECTIONS EXISTING OPTIC FIBRE CABLE EXISTING GAS SERVICE (ALINTA) EXISTING GAS SERVICE (APA GROUP) EXISTING ENERGEX SERVICE
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REFER TO PIPELINE LONG PROFILE DRAWINGS FOR DETAILS OF PIPE AND FITTINGS ALL PIPE JOINTS TO BE WELDED WITHIN CONCRETE ENCASEMENT SECTION AND ENCASING PIPE CLASS AND DETAILS OF ENCASING PIPE TO BE DETERMINED BY SPECIALIST DRILLING CONTRACTOR. REINFORCED CONCRETE ENCASING PIPE TO BE USED FOR RAIL CROSSINGS AND COMBINED ROAD & RAIL CROSSINGS. FOR ALL OTHER CROSSINGS, TYPE OF ENCASING PIPE TO BE DETERMINED BY SPECIALIST DRILLING CONTRACTOR AND APPROVED BY PRINCIPAL CONTRACTOR. ENCASING PIPE TO BE INSTALLED BY THRUST BORING OR MICRO TUNNELLING METHOD. ENCASING PIPE TO EXTEND MIN 2m PAST TOE OF BATTER FOR	V(-) 11.25°B + 3.83° V-3.83° H(-) 11.25°B + 3.83° H-3.83° 	30032656-DWG-34000-C-0209 FOR DETA VERTICAL BEND WITH PIPE DEFLECTIONS VERTICAL PIPE DEFLECTIONS HORIZONTAL BEND WITH PIPE DEFLECTIO HORIZONTAL PIPE DEFLECTIONS EXISTING OPTIC FIBRE CABLE EXISTING GAS SERVICE (ALINTA) EXISTING GAS SERVICE (APA GROUP) EXISTING ENERGEX SERVICE EXISTING OVERHEAD ELECTRICITY SERVIC EXISTING TELSTRA SERVICE

#### TRENCH TYPES FOR PIPELINE SECTIONS NOTES:

- 1. GROUND CONDITIONS BETWEEN 0 TO 1200 AND 90575 TO 117400 ARE ASSUMED FOR DESIGN PURPOSES
- 2. ALL SOIL CLASSIFICATIONS ARE BASED ON PRELIM DMR BOREHOLE INVESTIGATIONS AND THEREFORE ARE SUBJECT TO CHANGE
- 3. ACTUAL GROUND CLASSIFICATIONS & TRENCH TYPE TO BE DETERMINED ON-SITE BY EXPERIENCED GEOTECHNICAL ENGINEER

							_					NOTE 1. FOR SMEC'S DISCLAIMER REFER DRAWING 30032687-DWG-32000-G-0112
DRAWING FILE LOCATION / NAME					PLOT DAT				ΝΟΤ		CONSTRUC'	
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EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	TITLE	NAME	SCALES AT A1 SIZE DRAWING	DESIGNER	CLIENT		PROJECT TITLE FITZROY TO GLADSTONE PIPELINE PROJECT
X_30032656_SMEC_A1	A	20.08.21	30% CONCEPT DESIGN	006	MSL	DRAFTER	SUCHITH.R					30GLA - RAGLAN PUMP STATION TO ALDOGA PIPELINE
	в		CONCEPT DESIGN-ECI PHASE	006	MSL	DRAFTING CHECK	C.BOU		SMEC			PLAN AND LONGITUDINAL SECTION
	C		OPTIMISED CONCEPT DESIGN	006	MSL							
		18.11.22	UPDATED RIGHT OF WAY	037		DESIGNER	M.SERRANO LOPEZ		Member of the Surbana Jurong Group (C) ABN 47 065 475 149			GENERAL NOTES & LEGEND
						DESIGN CHECK	J.WAGENAAR	1	-		~	
						PROJECT MANAGER	M.SERRANO LOPEZ		LEVEL 6, 480 ST PAULS TERRACE FORTITUDE VALLEY QLD 4006		Gladstone Area	SCALE PHASE PROJECT / DRAWING No. REVISION
						PROJECT DIRECTOR	D. TAYLOR		SMEC PROJECT No 30032687		Water Board	SCALE PHASE PROJECT / DRAWING NO. CONCEPT DESIGN 30032687-DWG-34200-C-6034 D
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TEST PIT LOCATION (2007)

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L.S.) – REFER DWG R DETAILS

LAN & L.S.) – REFER DWG RDETAILS

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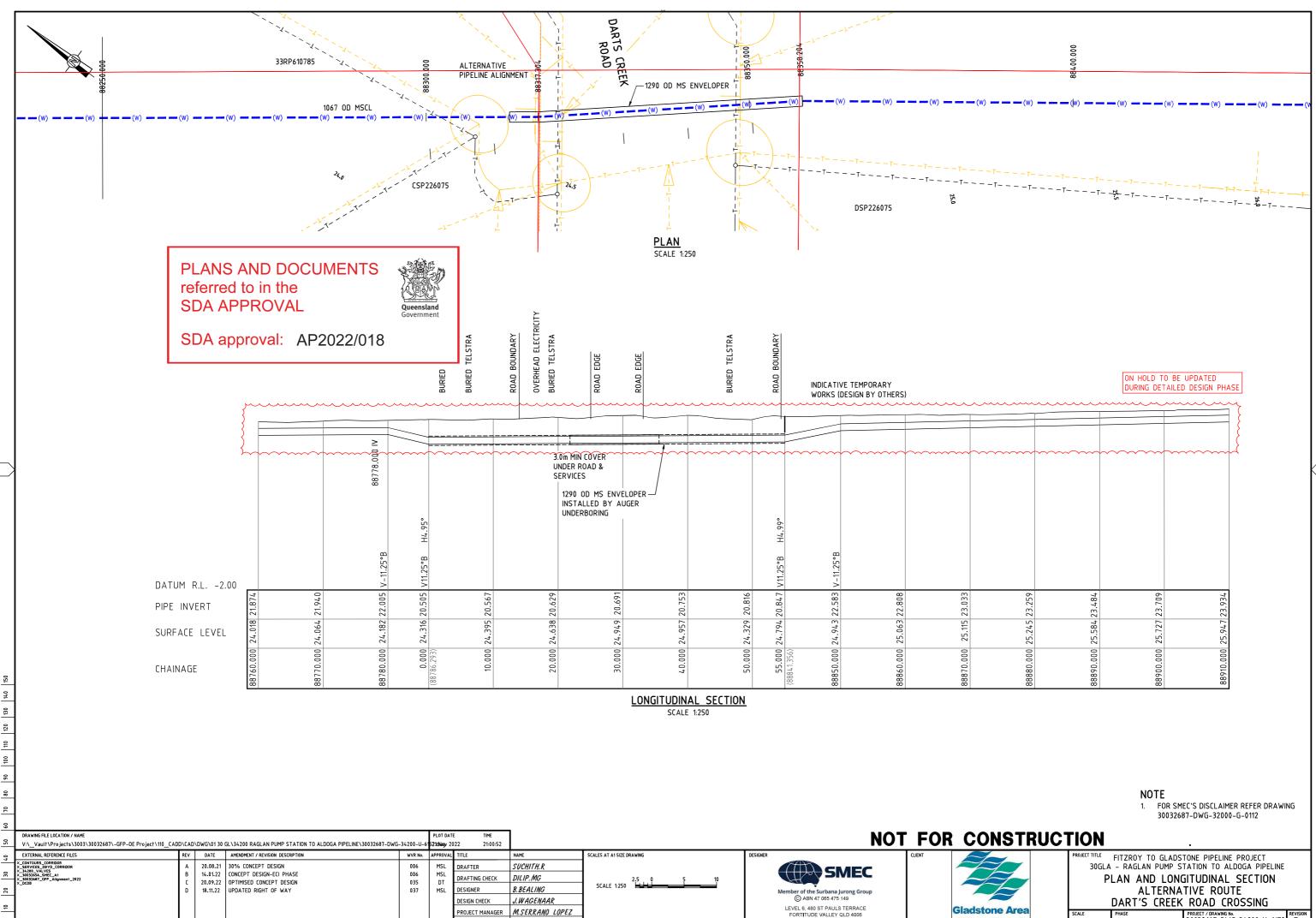
REFER DWG R DETAILS

ECTIONS

SERVICE

PLANS AND DOCUMENTS referred to in the SDA APPROVAL





**Gladstone** Area

Water Board

SMEC PROJECT No 30032687

CONCEPT DESIGN PROJECT / DRAWING NO. 30032687-DWG-34200-U-6152 D

PROJECT MANAGER M.SERRANO LOPEZ

PROJECT DIRECTOR D. TAYLOR

#### STANDARD NOTES:

- ALL DIMENSIONS IN mm UNLESS NOTED OTHERWISE.
- UNREINFORCED CONCRETE TO BE CLASS N20 AND REINFORCED CONCRETE TO BE CLASS N25 U.N.O. FOR AGGRESSIVE CONDITIONS USE SPECIAL GRADES OF CONCRETE AS DIRECTED ON DESIGN DRAWINGS.
- ALL TEMPORARY FENCING TO BE PROVIDED AS PER LANDOWNER З. REQUIREMENTS. PIPELINE PRESSURE RATINGS AS FOLLOWS:
- ALTON DOWNS TO RAGLAN = PN21 RAGLAN TO ALDOGA = PN21 ALDOGA TO MT MILLER = PN16
- MINIMUM PIPELINE COVER + 900mm (EXCEPT IN FLOOD PRONE AREAS) MINIMUM PIPELINE COVER IN FLOOD PRONE AREAS = 1100mm
- MAXIMUM PIPELINE COVER = 3500mm U.N.O.

#### STANDARD PIPE TRENCH NOTES:

- USE EMBEDMENT TYPES ONLY AS DIRECTED ON DESIGN DRAWINGS. LAY GEOTEXTILE FILTER FABRIC LAID AGAINST THE TRENCH FLOOR AND WALL SUCH THAT IT FULLY ENCASES OVER EXCAVATION.
- PROVIDE MIN 250mm LAP AT ALL FILTER FABRIC JOINTS. ALL DESIGN TO AS2566.1. FOR ALL PIPE JOINTS OTHER THAN WELDS CONCRETE SURROUND TO
- TERMINATE 500 CLEAR OF EACH SIDE OF JOINT AND USE TYPE A TRENCH AT JOINT.

#### ACCESS MANHOLE & TEE BRANCHES NOTES:

- 1. DEPTH OF MAIN MAY BE LOCALLY INCREASED TO ACHIEVE SPECIFIED
- 2. TEE FABRICATION DETAILS IN ACCORDANCE WITH AS 1579.

#### AIR VALVE NOTES:

- DEPTH MAY BE LOCALLY INCREASED TO ACHIEVE SPECIFIC COVER. ISOLATION VALVE TO BE GATE VALVE TYPE. ISOLATING VALVE TO BE
- INSTALLED SUCH THAT THE AIR VALVE CAN BE REMOVED AND SERVICED WITH THE ISOLATION VALVE IN PLACE.
- FLANGED BRANCH DIAMETER TO MATCH AIR VALVE FLANGE DIAMETER, 3 AS SHOWN IN DESIGN DRAWINGS.

#### PIPE FITTINGS & BENDS - STEEL FABRICATION NOTES:

- 1. SEE AS 1579 FOR ALTERNATIVE BEND DETAILS AND FABRICATION REQUIREMENTS.
- ALL WELDING TO BE IN ACCORDANCE WITH AS/NZS 1544.1 2. CATEGORY SP. З.
- FLANGE DRILLING TO COMPLY WITH AS 4087. ALL FLANGES SHALL BE RAISED FACED OR O-RING AS SPECIFIED ON DETAIL DRAWING. FULL FACE GASKETS TO BE USED WITH RAISED FACED FLANGES. GASKETS AND 'O' RING TO COMPLY WITH SPECIFICATION.
- PIPE TO BE IN ACCORDANCE WITH AS 1579 AND CEMENT LINING IN 5.
- ACCORDANCE WITH AS 1281 TO SUIT DESIGN PRESSURES. FITTINGS TO BE LINED OR COATED AS SPECIFIED INTERNALLY AND 6. COATED WITH MEDIUM DENSITY PE TO AS 4321 OR PAINTED WITH
- HIGH BUILD EPOXY OR APPROVED EQUIVALENT. FLANGE BOLTING DETAILS AS PER MANUFACTURERS
- RECOMMENDATIONS.
- 8. REINFORCING COLLARS REQUIRED FOR HIGH PRESSURE APPLICATIONS AS SPECIFIED.

#### SCOUR CONNECTION & DISCHARGE NOTES

1. OBTAIN DRAINAGE AUTHORITY APPROVAL FOR SUMP &/OR DISCHARGE POINT PRIOR TO CONSTRUCTION OF SCOUR.

#### CONFINED SPACE NOTES:

- WARNING SIGNAGE TO BE PROVIDED FOR ALL CONFINED SPACES IN ACCORDANCE WITH AS1319 - SAFETY SIGN FOR THE OCCUPATIONAL ENVIRONMENT.
- ALL CONSTRUCTION AND 0 & M WORKS IN ACCORDANCE WITH 2. AS2865:2001 - SAFE WORKING IN A CONFINED SPACE.

#### MARKER POSTS NOTES:

- TYPE, LOCATION AND ORIENTATION OF MARKERS TO BE IN
- ACCORDANCE WITH GLADSTONE AREA WATER BOARD REQUIREMENTS. DISTANCE TO AND SIZE OF MAIN/FITTING TO BE AS SHOWN ON
- MARKER.
- LOCATE MARKERS AT RIGHT ANGLES TO THE MAIN WITH MARKINGS З. FACING TOWARDS THE VALVE OR HYDRANT METALLIC MARKER PLATES TO BE REFLECTIVE WHITE WITH 4
- NON-REFLECTIVE LETTERING. LETTERING COLOUR TO BE HOMEBUSH RED (R22), TO AS 2700. MARKER PLATE LETTERS TO BE 80 HIGH x 40 WIDE x 10 STROKE WIDTH AS.
- COLOURED MARKER DISKS TO BE INSTALLED FOR THE APPROPRIATE LISAGE
- WATERMAIN MARKER POSTS TO BE CONSTRUCTED AT PROPERTY BOUNDARIES AND AT ALL HORIZONTAL BENDS, ROAD, RAIL AND 6. CREEK CROSSINGS, AS WELL AS VALVE AND METER LOCATIONS.

#### GRADIENT TRENCH STOP NOTES:

- PROVIDE TRENCH STOPS (IF REQUIRED) AT LOCATIONS SPECIFIED IN DESIGN DRAWINGS. LOCATE TRENCH STOPS AT SOCKET ENDS AS SHOWN ON DRAWINGS.
- GRADIENT TRENCH STOPS AND CONCRETE SURROUND TO BE LOCATED 500mm FROM SOCKET END OF PIPE. ALL BAGS TO BE SEALED TO PREVENT LOSS OF CONTAINED MATERIAL.
- FOR GRADES 5% TO 14% USE TRENCH STOPS. FOR GRADES 15% TO 29% USE BULKHEADS AND TRENCH STOPS.
- ABOVE REQUIREMENT APPLIES TO BOTH POSITIVE AND NEGATIVE SLOPES.
- FOR ALL PIPE JOINTS OTHER THAN WELDS CONCRETE SURROUND TO TERMINATE 500 CLEAR OF EACH SIDE OF PIPE JOINT AND USE TYPE A TRENCH AT PIPE JOINT.
- 6. SEAL BAGS TO PREVENT LEAKAGE OF CONTAINED MATERIAL.

#### BULKHEAD NOTES:

- CONSTRUCT CONCRETE BULKHEADS (IF REQUIRED) AT LOCATIONS SPECIFIED IN DESIGN DRAWINGS. LOCATE BULKHEADS AT SOCKET ENDS AS SHOWN ON DRAWINGS.
- KEY CONCRETE BULKHEADS INTO SIDES AND BOTTOM OF TRENCH AGAINST A BEARING SURFACE OF UNDISTURBED SOIL.
- FOR SLOPES 15% TO 29% USE BULKHEADS AND TRENCH STOPS. FOR SLOPER >30% USE WELDED JOINTS AND BULKHEADS.
- DO NOT DEFORM PIPES DURING PLACEMENT OF CONCRETE. PROVIDE A CONTINUOUS DRAINAGE PATH THROUGH BULKHEADS
- COMPRESSIBLE MEMBRANE AROUND PIPE TO BE 3 THICK
- 6. RUBBER FOR BULKHEADS ON SLOPES

#### FENCING NOTES:

ALL TEMPORARY AND PERMANENT FENCING IN ACCORDANCE WITH DMR-1601 UNLESS OTHERWISE NOTED.

#### STANDARD CROSSING NOTES

- REFER TO PIPELINE LONG PROFILE DRAWINGS FOR DETAILS OF PIPE AND FITTINGS
  - ALL PIPE JOINTS TO BE WELDED WITHIN CONCRETE ENCASEMENT SECTION AND ENCASING PIPE
- CLASS AND DETAILS OF ENCASING PIPE TO BE DETERMINED BY SPECIALIST DRILLING CONTRACTOR.
- REINFORCED CONCRETE ENCASING PIPE TO BE USED FOR RAIL 4
- CROSSINGS AND COMBINED ROAD & RAIL CROSSINGS. FOR ALL OTHER CROSSINGS, TYPE OF ENCASING PIPE TO BE
- DETERMINED BY SPECIALIST DRILLING CONTRACTOR AND APPROVED BY PRINCIPAL CONTRACTOR.
- ENCASING PIPE TO BE INSTALLED BY THRUST BORING OR MICRO TUNNELING METHOD.
- ENCASING PIPE TO EXTEND MIN 2m PAST TOE OF BATTER FOR 7. ROAD/RAIL EMBANKMENT.
- ENCASING PIPE TO EXTEND MIN 2.0m PAST EDGE OF CREEK
- REINSTATEMENT OF EXTERNAL PIPE PROTECTION AT WELDED JOINTS IS NOT REQUIRED FOR CONCRETE ENCASED PIPE.

#### VALVE AND FITTING NOTES:

- ALL VALVES AND FITTINGS TO BE PN21 RATED FOR ALTON DOWNS
- TO ALDOGA U.N.O. ALL VALVES AND FITTINGS TO BE PN16 FROM ALDOGA TO MT
- 2. MILLER.

#### WELDED JOINTS:

- WELDED JOINTS SHALL BE EITHER BALL AND SOCKET TYPE OR COLLAR WELDS.
- AFTER WELDING AND TESTING OF JOINT, INTERNAL CEMENT MORTAR LINING SHALL BE POINTED AS PER MANUFACTURERS RECOMMENDATIONS
- THE JOINTS SHALL BE COATED EXTERNALLY WITH A HEAT SHRINK З. SLEEVE \ WRAP AS SPECIFIED.

#### BURIED FLANGE JOINTS:

- ALL BURIED FLANGE JOINTS SHALL BE DENSO WRAPPED AS SPECIFIED. ALL NUTS, BOLTS & WASHERS SHALL BE GRADE 8.8 GALVANISED 2.
- STEEL.

#### FLANGE JOINTS IN PITS:

ALL NUTS, BOLTS & WASHERS SHALL BE GRADE 316 S.S. AS SPECIFIED

#### CATHODIC PROTECTION & INDUCED CURRENT NOTES: CATHODIC PROTECTION LOOPS AND LUGS TO BE PROVIDED FOR ALL

- RR L PIPES CATHODIC PROTECTION TO BE PROVIDED AS SPECIFIED ON DESIGN 2. DRAWINGS.
- PIPES TO BE PROTECTED AGAINST INDUCED OR STRAY ELECTRICAL 3. CURRENTS AS SPECIFIED ON DESIGN DRAWINGS.

#### BLASTING NOTES:

- ALL BLASTING IN ACCORDANCE WITH AS 2187 AND STATUATORY REQUIREMENTS.
- ALL AFFECTED UTILITIES & STAKEHOLDERS TO BE CONSULTED FOR 2. APPROVAL IN ADVANCE OF WORKS.



WING FILE LOCATION / NAME _Vault\Projects\3003\30032687\-GFP-OE Project\110_CAI	DD\CAD	\DWG\01 30	GL\34000 PIPELINE TYPICAL & STANDARD DETAILS\30032687-DWG-3400		PLOT DATI J <b>vĝ</b> 6 Apr 2				NOT	FOR	00
ERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	. TITLE	NAME	SCALES AT A1 SIZE DRAWING	DESIGNER	CLIENT	
2656_SMEC_A1	A	20.08.21	30% CONCEPT DESIGN	006	MSL	DRAFTER	SUCHITH.R				
	В		CONCEPT DESIGN-ECI PHASE	006	MSL	DRAFTING CHECK	J.HAYDON		SMEC		
	C	27.05.22	OPTIMISED CONCEPT DESIGN	006	MSL	DESIGNER	M.SERRANO LOPEZ		Member of the Surbana Jurong Group		
				i l		DESIGN CHECK	J.WAGENAAR		© ABN 47 065 475 149		
				i l		PROJECT MANAGER	M.SERRANO LOPEZ		LEVEL 6, 480 ST PAULS TERRACE FORTITUDE VALLEY QLD 4006		Gladstor
	1 '	1		, ,			AZANETTI	1	SMEC PRO JECT No 30032687		Water

150

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120

### PLANS AND DOCUMENTS referred to in the SDA APPROVAL

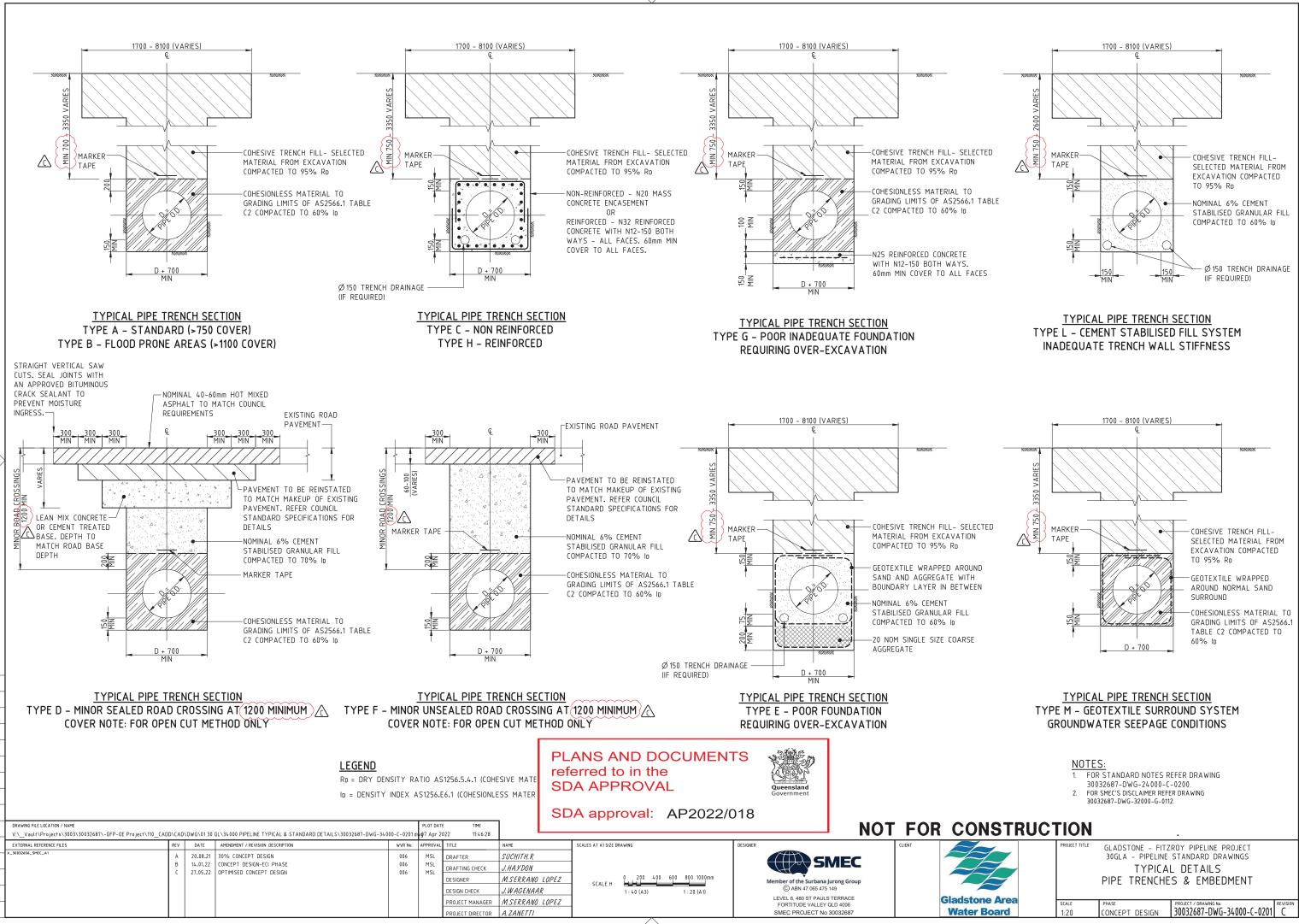


### SDA approval: AP2022/018

NOTE 1. FOR SMEC'S DISCLAIMER REFER DRAWING 30032687-DWG-32000-G-0112

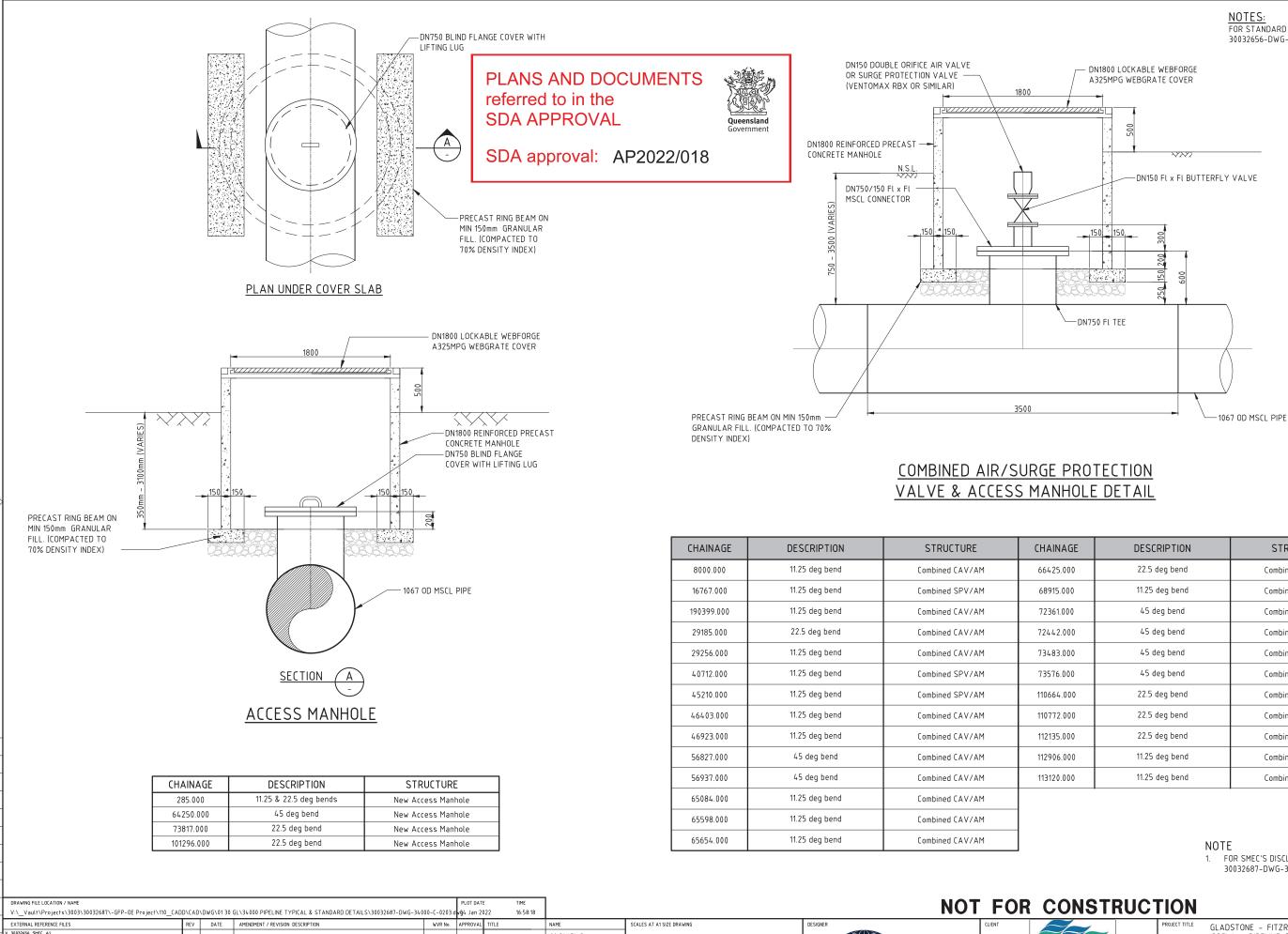
## NSTRUCTION

			•	
	PROJECT TITLE	30GLA - PIPELINE TYPICA	ROY PIPELINE PROJECT STANDARD DRAWINGS L DETAILS L NOTES	
ne Area	SCALE	PHASE	PROJECT / DRAWING No.	REVISION
Board	N.T.S.	CONCEPT DESIGN	30032687-DWG-34000-C-0200	L



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9

20.08.21 30% CONCEPT DESIGN 14.01.22 CONCEPT DESIGN-ECI PHASE

006 006

MSL MSL

ORAFTER

DESIGNER

DESIGN CHECK

ROJECT MANAGER

PROJECT DIRECTOR A. ZANETTI

DRAFTING CHECK

SUCHITH.R

J.HAYDON

J.WAGENAAR

M.SERRANO LOPEZ

M.SERRANO LOPEZ

SCALE

: 40 (A3)

14.0

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NOTES: FOR STANDARD NOTES REFER DRAWING 30032656-DWG-24000-C-0200

SMEC

Member of the Surbana Jurong Group

LEVEL 6, 480 ST PAULS TERRACE FORTITUDE VALLEY QLD 4006 SMEC PROJECT No 30032687

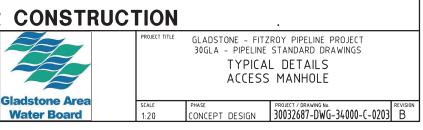
© ABN 47 065 475 149

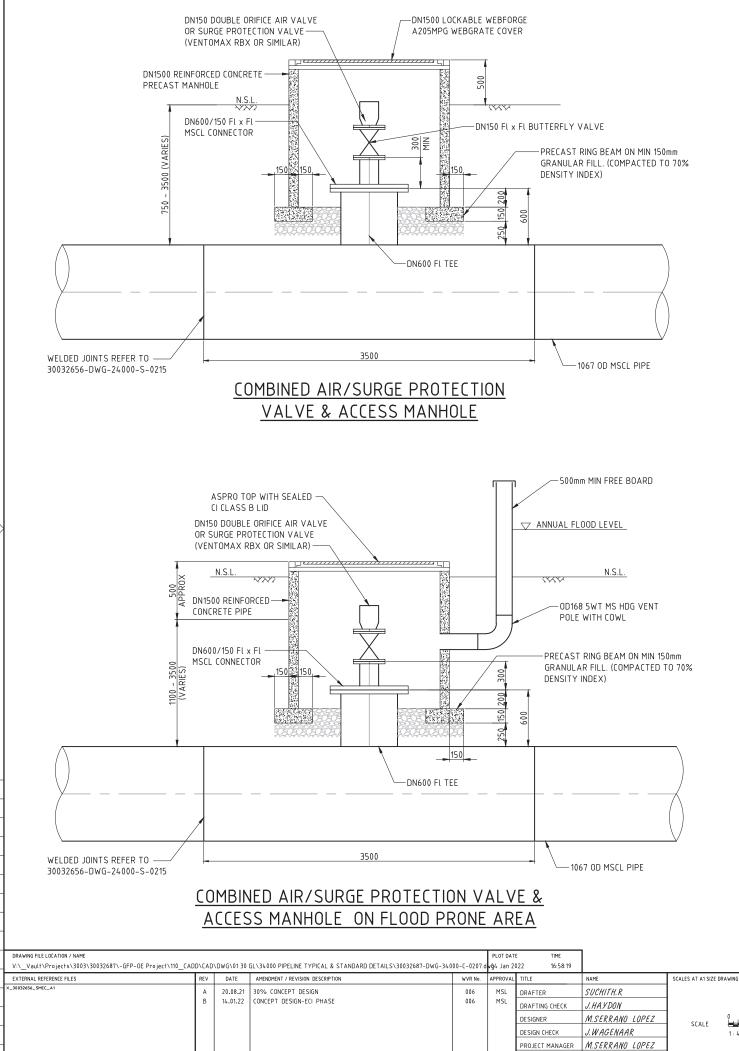
200 400 600 800 1000mm

1:20 (A1)

DESCRIPTION	STRUCTURE
22.5 deg bend	Combined SPV/AM
11.25 deg bend	Combined CAV/AM
45 deg bend	Combined SPV/AM
22.5 deg bend	Combined SPV/AM
22.5 deg bend	Combined SPV/AM
22.5 deg bend	Combined CAV/AM
11.25 deg bend	Combined SPV/AM
11.25 deg bend	Combined SPV/AM

1. FOR SMEC'S DISCLAIMER REFER DRAWING 30032687-DWG-32000-G-0112





#### ASSUMPTIONS

DEPTH MEASURED FROM GROUND LEVEL TO INVERT OF CHAMBER BASE
 DENSITY OF INSITU/BACKFILL MATERIAL = 18 KN/M3

CHAINAGE	STRUCTURE	FLOOD LEVEL
8000	Air Valve	11.90
8817	Air Valve	11.88
9615	Air Valve	11.84
10371	Air Valve	11.68
10809	Air Valve	11.58
11490	Air Valve	11.44
11706	Air Valve	11.39
12120	Air Valve	11.31
14101	Air Valve	10.88
14618	Air Valve	10.77
15400	Air Valve	10.61
15750	Air Valve	10.53
16525	Air Valve	10.37
17100	Air Valve	10.25
17825	Air Valve	10.09
18670	Air Valve	9.92
18845	Air Valve	9.88
19399	Air Valve	9.76
19630	Air Valve	9.71
20200	Air Valve	9.59
20620	Air Valve	9.50
21425	Air Valve	9.33
22018	Air Valve	9.20
22238	Air Valve	9.15
23300	Air Valve	8.93
23960	Air Valve	8.79
24428	Air Valve	8.69
25026	Air Valve	8.56
25611	Air Valve	8.44
27122	Air Valve	8.12
27850	Air Valve	7.96
29185	Air Valve	7.68
29255	Air Valve	7.66
29856	Air Valve	7.54
30448	Air Valve	7.41
31200	Air Valve	7.25
32000	Air Valve	7.08
32500	Air Valve	6.97
33035	Air Valve	6.86
33980	Air Valve	6.66
35200	Air Valve	6.40
35860	Air Valve	6.26
36408	Air Valve	6.14
37200	Air Valve	5.97
37962	Air Valve	5.81
38400	Air Valve	7.8
39200	Air Valve	7.8
40000	Air Valve	7.8
41264	Air Valve	7.8
1 405 0	A != \/_L	

Air Valve

41850

DESIGNER

Me

200 400 600 800 1000mm

1:20 (A1)

PROJECT DIRECTOR A. ZANETTI

: 40 (A3)

### SCHEDULE OF AIR VALVES IN FLOOD PRONE AREAS

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ΝΟΤ	FOR CONST	RUCTIO	N		
ember of the Surbana Jurong Group © ABN 47 065 475 149	CLIENT	PROJECT T	30GLA - PIPELINE TYPICAL	ZROY PIPELINE PROJECT STANDARD DRAWINGS _ DETAILS SURGE PROTECTION	
LEVEL 6, 480 ST PAULS TERRACE FORTITUDE VALLEY QLD 4006 SMEC PROJECT No 30032687	Gladstone Area Water Board	scale 1:20	PHASE CONCEPT DESIGN	PROJECT / DRAWING NO. 30032687-DWG-34000-C-0207	REVISION B

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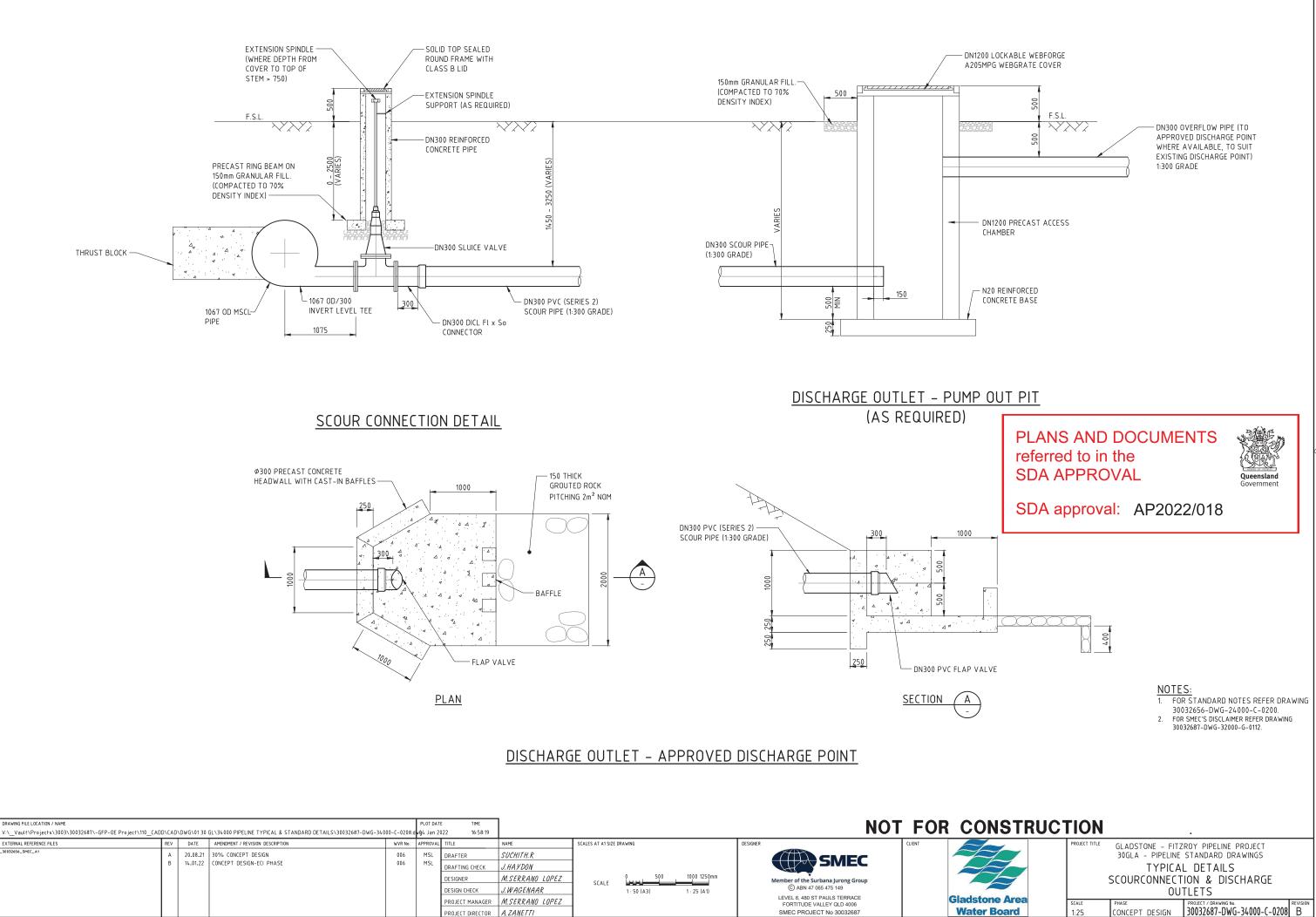
-	20.									
1.	FOR	STA	NDAF	D	NOT	ЕS	REFE	RDRA	WIN	G
	3003	32650	6-DW	G-	340	00-	C-02	00.		
2.	GRO	UND	LEVE	L.	AND	IN۷	'ERT	LEVEL	ΤO	ΒE

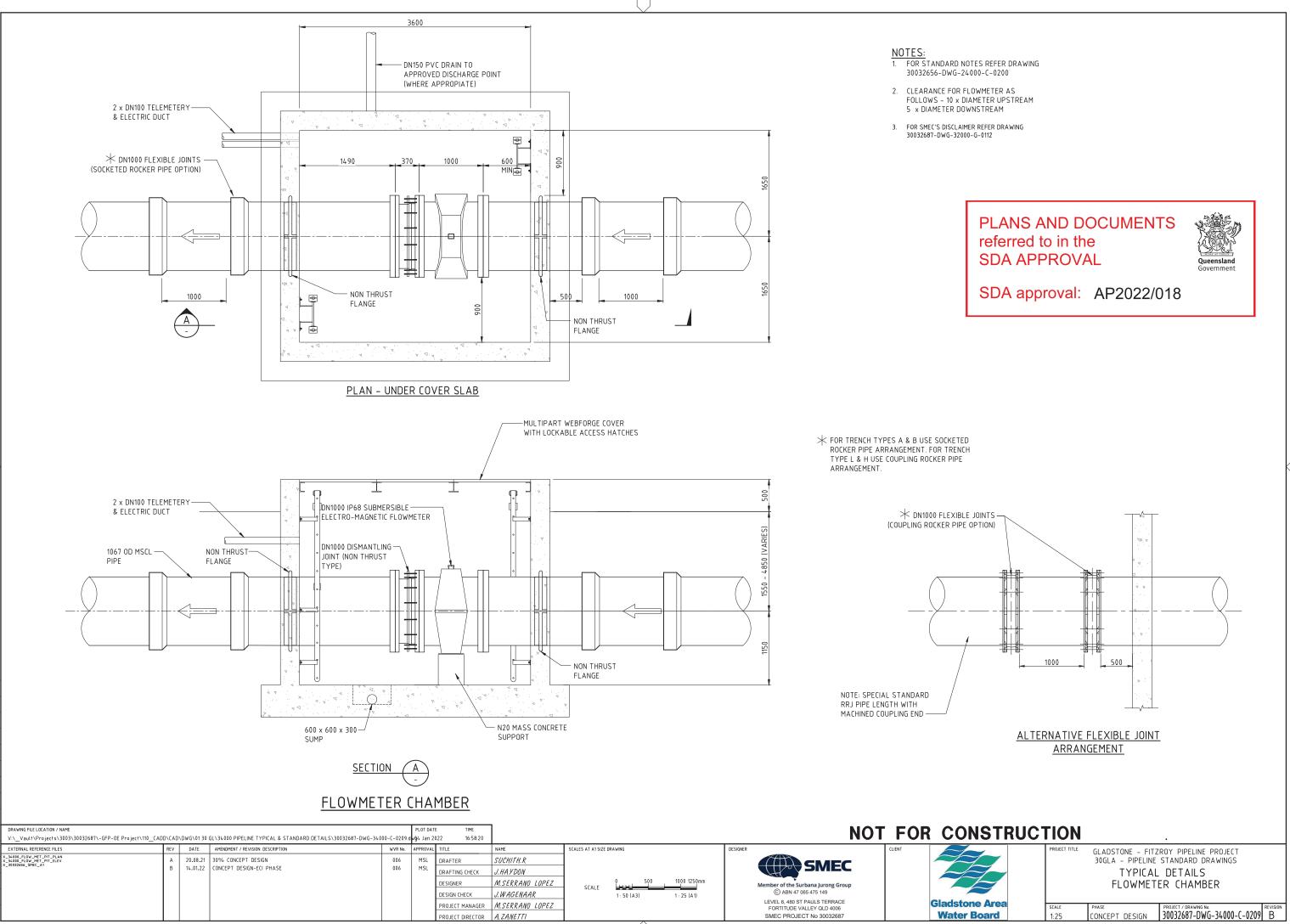
DOCUMENTED WITH UPDATED SURVEY DURING NEXT STAGE OF THE DESIGN. FOR SMEC'S DISCLAIMER REFER DRAWING 30032687-DWG-32000-G-0112.

CHAINAGE	STRUCTURE	FLOOD LEVEL
43000	Air Valve	7.8
43768	Air Valve	7.8
44550	Air Valve	7.8
46403	Air Valve	7.8
46800	Air Valve	7.8
48190	Air Valve	7.8
4860	Air Valve	7.8
49816	Air Valve	7.8
51400	Air Valve	7.8
52200	Air Valve	7.8
53000	Air Valve	7.8
53800	Air Valve	7.8
54521	Air Valve	7.8
55273	Air Valve	7.8
55850	Air Valve	7.8
56216	Air Valve	7.8
56826	Air Valve	7.8
57230	Air Valve	7.8
59882	Air Valve	7.8
60709	Air Valve	7.8
61500	Air Valve	7.8
62300	Air Valve	7.8
63800	Air Valve	7.8
64600	Air Valve	7.8
65083	Air Valve	7.8
65598	Air Valve	7.8
65654	Air Valve	7.8
68915	Air Valve	7.8
70192	Air Valve	7.8
71700	Air Valve	7.8
72705	Air Valve	7.8
74527	Air Valve	7.8
75100	Air Valve	7.8

PLANS AND DOCUMENTS
referred to in the
SDA APPROVAL

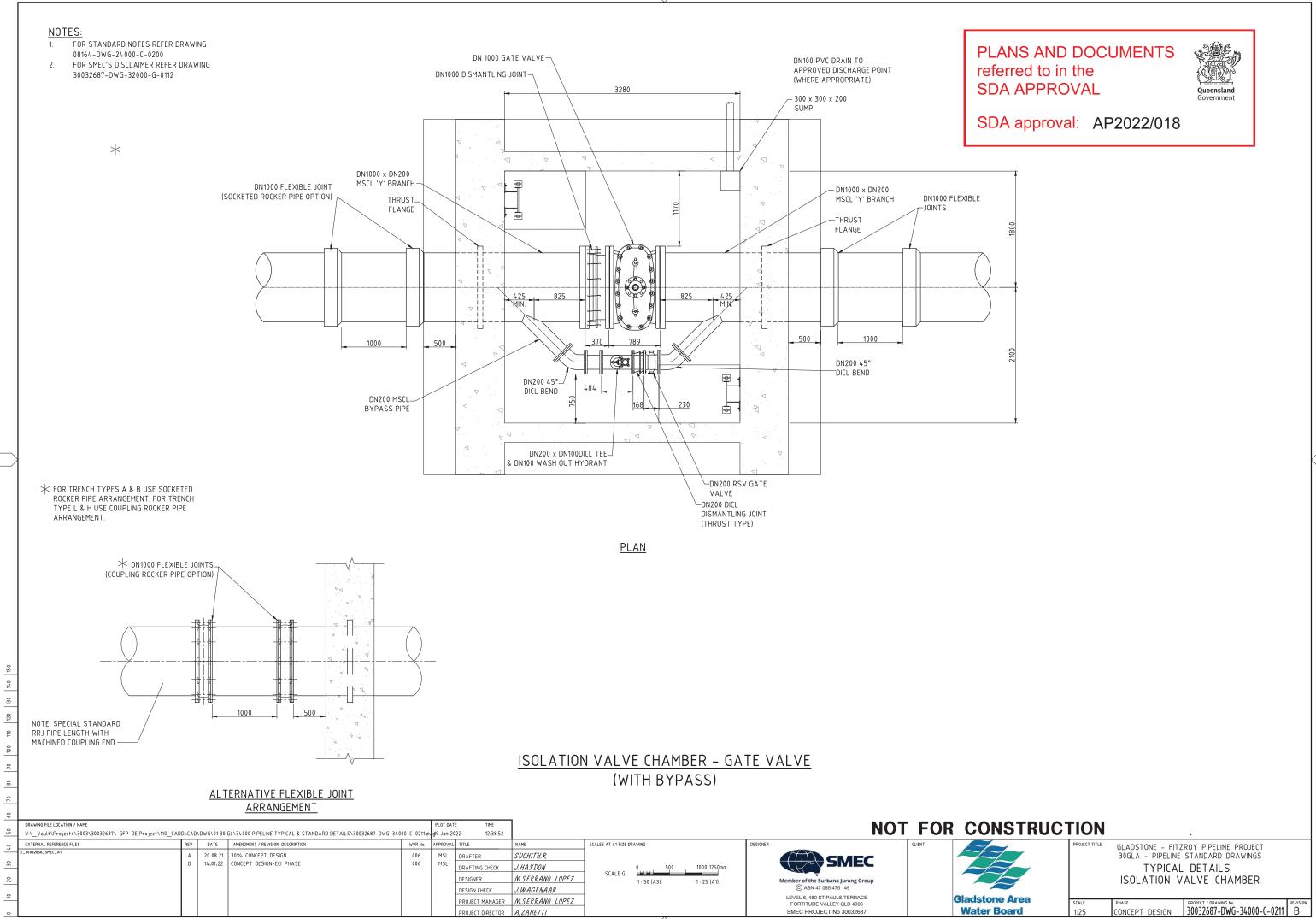






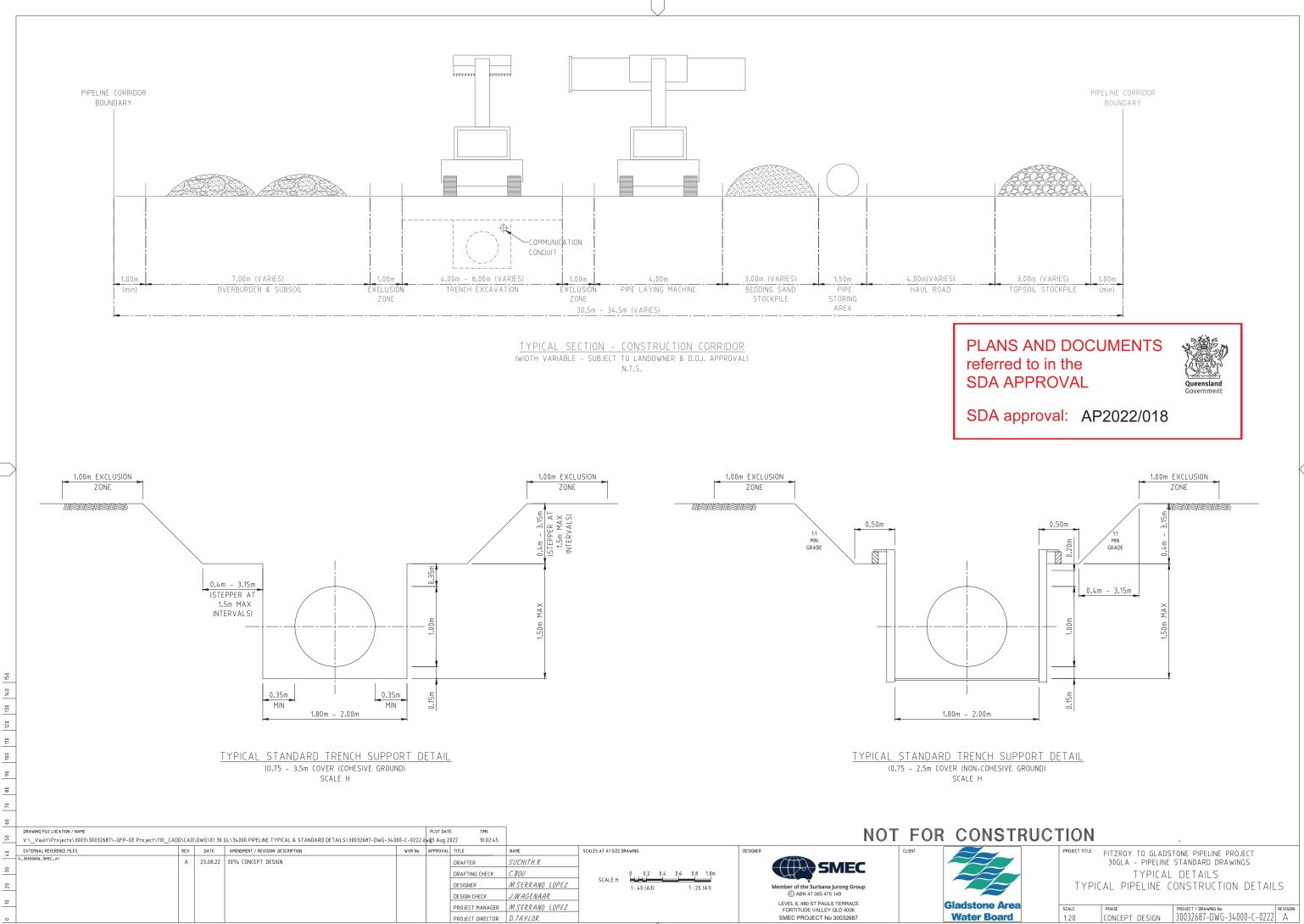
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	DRAWING INDEX
DRAWING NO.	TITLE
34300 - ALDOGA TO MT MILLER PIPELINE	
30032687-DWG-34300-G-8000	COVER SHEET
30032687-DWG-34300-C-8001	KEY PLAN
30032687-DWG-34300-C-8015	LAYOUT PLAN CH109895.963 TO CH111500 SHEET 1
30032687-DWG-34300-C-8016	LAYOUT PLAN CH111500 TO CH115500 SHEET 2
30032687-DWG-34300-C-8017	LAYOUT PLAN CH115500 TO CH117408.460 SHEET 3
30032687-DWG-34300-C-8040	PLAN AND LONGITUDINAL SECTION GENERAL NOTES & LEGEND
30032687-DWG-34300-M-8301	CONNECTION VALVE PIT
30032687-DWG-34300-U-8150	PLAN AND LONGITUDINAL SECTION MT LARCOM ROAD / YARWUN RAIL CROSSING
30032687-DWG-34300-U-8151	PLAN AND LONGITUDINAL SECTION MT LARCOM GLADSTONE ROAD CROSSING
30032687-DWG-34300-U-8152	PLAN AND LONGITUDINAL SECTION MT LARCOM GLADSTONE ROAD CROSSING/ TARGINIE ROAD CROSSING
30032687-DWG-34300-U-8153	PLAN AND LONGITUDINAL SECTION RTA COAL CONVEYOR (ROSSING
30032687-DWG-34300-L-8600	MT MILLER PIPELINE CONNECTION DETAIL PIPING PLAN
35000 - ALDOGA RESERVOIR	
30032687-DWG-35000-G-7000	GENERAL COVER SHEET
30032687-DWG-35000-P-7006	
30032687-DWG-35000-C-7010 30032687-DWG-35000-C-7011	LOCALITY PLAN OVERALL LAYOUT PLAN
30032687-DWG-35000-C-7013	LAYOUT PLAN RESERVOIR AREA
30032687-DWG-35000-L-7600	SETOUT PLAN RESERVOIR AREA
30032687-DWG-35000-U-7090	JOHN'S HILL GEOPHYSICAL SURVEY GEOTECHNICAL LAYOUT PLAN & SECTION
30032687-DWG-35000-U-7091	GEOTECHNICAL INVESTIGATION LAYOUT PLAN
30032687-DWG-35000-U-7092	GEOTECHNICAL INVESTIGATION LATION FLAN
30032687-DWG-35000-E-7400	ELECTRICAL SITE LAYOUT
30032687-DWG-35000-E-7405	ELECTRICAL SINGLE LINE DIAGRAM SHEET 1
30032687-DWG-35000-J-7500	CONTROL SYSTEM NETWORK DIAGRAM
36100 - INTAKE PUMP STATION	1
30032687-DWG-36100-G-1000	GENERAL COVER SHEET
30032687-DWG-36100-P-1006	PROCESS & INSTRUMENTATION DIAGRAM
30032687-DWG-36100-C-1010	LOCALITY PLAN
30032687-DWG-36100-C-1011	OVERALL LAYOUT PLAN
30032687-DWG-36100-C-1012	LAYOUT PLAN
30032687-DWG-36100-C-1024	PLAN AND LONGITUDINAL SECTION GENERAL NOTES AND LEGEND GENERAL NOTES & LEGEND
30032687-DWG-36100-M-1301	PUMPWELL GENERAL ARRANGEMENT PLAN
30032687-DWG-36100-M-1302	PUMPWELL GENERAL ARRANGEMENT SECTIONS
30032687-DWG-36100-U-1090	GEOTECHNICAL LAYOUT PLAN
30032687-DWG-36100-U-1091	GEOTECHNICAL SECTIONS
30032687-DWG-36100-E-1400	HV POWER SUPPLY PROTECTION AND METERING SINGLE LINE DIAGRAM
30032687-DWG-36100-E-1405	MAIN SWITCHBOARD LV SINGLE LINE DIAGRAM SHEET 1
30032687-DWG-36100-E-1406	MAIN SWITCHBOARD LV SINGLE LINE DIAGRAM SHEET 2
30032687-DWG-36100-E-1425	ELECTRICAL SITE LAYOUT
30032687-DWG-36100-E-1426	IT-S1 22kV SWITCHBOARD TYPICAL PLC TIER GENERAL ARRANGEMENT
30032687-DWG-36100-E-1440	HV SWITCHROOM LAYOUT DRAWING
30032687-DWG-36100-E-1455	LV CONDUIT AND CABLE TRAY ROUTE CONTROL BUILDING GENERAL ARRANGEMENT
30032687-DWG-36100-E-1470	EARTHING LAYOUT EARTH GRID DESIGN
30032687-DWG-36100-E-1471	EARTHING LAYOUT EARTH BAR AND CONNECTION DETAILS
30032687-DWG-36100-J-1500	CONTROL SYSTEM NETWORK DIAGRAM
6200 - ALTON DOWNS PUMP STATION & F	
30032687-DWG-36200-G-3000	GENERAL COVER SHEET
30032687-DWG-36200-P-3005	PROCESS & INSTRUMENTATION DIAGRAM SHEET 1
30032687-DWG-36200-P-3006	PROCESS & INSTRUMENTATION DIAGRAM SHEET 2
30032687-DWG-36200-P-3007	PROCESS & INSTRUMENTATION DIAGRAM SHEET 3
30032687-DWG-36200-C-3010	LOCALITY PLAN
30032687-DWG-36200-M-3355 30032687-DWG-36200-M-3356	PIPELINE ARRANGEMENT PLAN MECHANICAL - IN BUILDING PIPELINE SECTIONS
30032687-DWG-36200-M-3356 30032687-DWG-36200-E-3400	MELHANICAL - IN BUILDING PIPELINE SECTIONS HV POWER SUPPLY PROTECTION AND METERING SINGLE LINE DIAGRAM
30032687-DWG-36200-E-3400 30032687-DWG-36200-E-3401	ELECTRICAL OVERAL SITE LAYOUT
30032687-DWG-36200-E-3409	ALTON DOWNS OVERALL SINGLE LINE DIAGRAM OVERVIEW
30032687-DWG-36200-E-3440	PUMP STATION BUILDING HV SWITCHROOM LAYOUT
30032687-DWG-36200-E-3440 30032687-DWG-36200-E-3460	SLUDGE DEWATERING BUILDING TRANSFORMER BAY LAYOUT
30032687-DWG-36200-E-3470	PUMP STATION BUILDING EARTHING LAYOUT
30032687-DWG-36200-E-3472	SLUDGE DEWATERING BUILDING EARTHING LAYOUT
30032687-DWG-36200-L-3600	PIPELINE SECTIONS SHEET 1
30032687-DWG-36200-L-3601	PIPELINE SECTIONS SHEET 2

	DRAWING INDEX
DRAWING NO.	
36300 - RAGLAN PUMP STATION	
30032687-DWG-36300-G-5000	GENERAL COVER SHEET
30032687-DWG-36300-P-5004	PROCESS & INSTRUMENTATION DIAGRAM SHEET
30032687-DWG-36300-P-5005	PROCESS & INSTRUMENTATION DIAGRAM SHEET
30032687-DWG-36300-P-5006	PROCESS & INSTRUMENTATION DIAGRAM SHEET
30032687-DWG-36300-P-5007	PROCESS & INSTRUMENTATION DIAGRAM SHEET
30032687-DWG-36300-P-5008	PROCESS & INSTRUMENTATION DIAGRAM SHEET
30032687-DWG-36300-P-5009	PROCESS & INSTRUMENTATION DIAGRAM SHEET
30032687-DWG-36300-C-5010	LOCALITY PLAN
30032687-DWG-36300-C-5011	OVERALL LAYOUT PLAN
30032687-DWG-36300-C-5012	LAYOUT PLAN
30032687-DWG-36300-C-5035	SERVICES
30032687-DWG-36300-L-5600	PIPING GENERAL ARRANGEMENT OVERALL LAYOU
30032687-DWG-36300-U-5090	GEOTECHNICAL LAYOUT PLAN
30032687-DWG-36300-U-5091	GEOTECHNICAL LONGITUDINAL SECTION
30032687-DWG-36300-M-5355	MECHANICAL - IN BUILDING PIPELINE ARRANGEME
30032687-DWG-36300-M-5356	MECHANICAL - IN BUILDING PIPELINE SECTIONS
30032687-DWG-36300-E-5400	HV POWER SUPPLY PROTECTION AND METERING
30032687-DWG-36300-E-5405	MAIN SWITCHBOARD LV SINGLE LINE DIAGRAM S
30032687-DWG-36300-E-5406	MAIN SWITCHBOARD LV SINGLE LINE DIAGRAM S
30032687-DWG-36300-E-5407	MAIN SWITCHBOARD LV SINGLE LINE DIAGRAM S
30032687-DWG-36300-E-5440	HV SWITCHROOM LAYOUT DRAWING
30032687-DWG-36300-E-5460	ELECTRICAL SITE LAYOUT
30032687-DWG-36300-E-5470	EARTHING LAYOUT EARTH GRID DESIGN
30032687-DWG-36300-J-5500	CONTROL SYSTEM NETWORK DIAGRAM

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THE 1,952 DRAWINGS PROVIDED INCLUDED ALL DISCIPLINES IN ALL AREAS THAT WERE COVERED DURING THE DETAILED DESIGN PHASE, DUE TO THE LARGE AMOUNT OF DRAWINGS, SMEC HAS ONLY REVIEWED SPECIFIC ITEMS. THE DRAWINGS PRODUCED BY SMEC ARE BASED ON THE CDUJV DRAWINGS. THE CONFIDENCE LEVEL, CONSIDERED TO BE MOST APPROPRIATE FOR CONCEPT DESIGN PURPOSES, WILL VARY DEPENDING ON THE CONSERVATISM OF THE USER AND THE NATURE OF THE DISCIPLINE.

ло Ло	DRAWING FILE LOCATION / NAME V:Vault \Projects \3003\30032687\-GFP-DE Project \110CADI	D\CAD\	DWG\01 30	5L\32000 OVERALL SITE LAYOUTS\30032687-DWG-32000-G-0112.dwg		PLOT DAT 21 Nov 2				ΝΟΤ	FOR CONSTRUCT	TION .
-	EXTERNAL REFERENCE FILES	REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL	L TITLE	NAME	SCALES AT A1 SIZE DRAWING	DESIGNER		PROJECT TITLE FITZROY TO GLADSTONE PIPELINE PROJECT
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2							PROJECT MANAGER	M.SERRANO LOPEZ		LEVEL 6, 480 ST PAULS TERRACE FORTITUDE VALLEY QLD 4006	Gladstone Area	SCALE PHASE PROJECT / DRAWING No. REVISION
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### PLANS AND DOCUMENTS referred to in the SDA APPROVAL



SDA approval: AP2022/018

#### A TOTAL OF 1,952 DRAWINGS HAVE BEEN PROVIDED AS PART OF GAWB'S DOCUMENTATION SHARED 'GLADSTONE FITZROY PROJECT - SHARE FOLDER' ON 15 JUNE 2021. A CLOUGH DIVERSIFIED UNITED JOINT VENTURE (CDUJV) IN AN EARLY CONTRACTOR INVOLVEMENT (ECI) STYLE CONTRACT DEVELOPED A DETAILED DESIGN, INCLUDING DRAWINGS, AND PROVIDED CONSTRUCTABILITY INPUT FOR THE GLADSTONE TO FITZROY PIPELINE PROJECT.



# Fitzroy to Gladstone Pipeline Project

Planning Report for Material Change of Use – FGP SGIC SDA Alignment

Gladstone Area Water Board

13 January 2023

PLANS AND DOCUMENTS referred to in the SDA APPROVAL



# Special Area Plan – Yellow chat habitat within the Stanwell-Gladstone Infrastructure Corridor State Development Area

**Fitzroy to Gladstone Pipeline Project** 

Gladstone Area Water Board (GAWB)

August 2024

PLANS AND DOCUMENTS referred to in the SDA APPROVAL







# Special Area Plan – Trenchless Waterway Crossings within the Stanwell-Gladstone Infrastructure Corridor State Development Area

## **Fitzroy to Gladstone Pipeline Project**

Gladstone Area Water Board (GAWB)

October 2024

PLANS AND DOCUMENTS referred to in the SDA APPROVAL



SDA approval: APC2024/011





BASE

BASE

# Special Area Plan – Ornamental Snake and Brigalow habitat within the Stanwell-Gladstone Infrastructure Corridor State Development Area

## **Fitzroy to Gladstone Pipeline Project**

Gladstone Area Water Board (GAWB)

June 2023

PLANS AND DOCUMENTS referred to in the SDA APPROVAL







## Gladstone Area Water Board

# Fitzroy to Gladstone Pipeline

## Construction Environmental Management Plan

1151-DL00-GWB-XEV-MAP-00001 Controlled Document

> PLANS AND DOCUMENTS referred to in the SDA APPROVAL



SDA approval: AP2022/018

AUTHORISED BY: DATE OF ISSUE: MAINTAINED BY: CURRENT VERSION: REVIEW DATE: DOCUMENT TYPE FGP Chief Operating Officer July 2023

FGP Approvals Manager Revision 1, Issue 2 12 months from 'Date of Issue'

Management Plan

 Gladstone
 Area
 Water
 Board

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