1. THE CUSTOMER SHALL ENGAGE A CERTIFIED GEOTECHNICAL ENGINEER TO CONDUCT A SOIL TEST TO ASSESS THE STRENGTH AND COMPATIBILITY OF THE SOIL TO ACCOMMODATE THE WEIGHT OF THE POOL SHELL. THE SOIL TEST SHALL BE CONDUCTED IN ACCORDANCE WITH AS2870.

2. TEMPORARY WORKS ARE THE RESPONSIBILITY OF THE POOL INSTALLER, INCLUDING THE DESIGN AND INSTALLATION OF CRANES, CRANE Bases, PLATFORMS AND GROUND IMPROVEMENTS TO SUPPORT CONSTRUCTION PLANT.

3. STRUCTURAL DRAWINGS TO BE READ IN CONJUNCTION WITH ALL POOL CONSTRUCTION DRAWINGS AND SPECIFICATIONS. ALL CONCRETE TO BE VIBRATED DURING PLACEMENT.

4. THE CODES, NOTES AND PROCEDURES REFERRED TO AND SHOWN ON THESE DRAWINGS APPLY ONLY FOR THE STANDARD PRECAST CONCRETE WATER HOLDING TANK.

5. THE POOL SHALL ONLY BE EMPTIED IN AN APPROVED MANNER UNDER THE SUPERVISION OF AN AUTHORIZED PERSONAL. THE POOL INSTALLER SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONNEL AND OTHERS ON SITE DURING THE PROCESS.

6. IT IS IMPORTANT THAT THE SITE BE WELL DRAINED. THE GROUND AROUND THE POOL AREA TO ACHIEVE COMPLIANCE WITH STRUCTURAL AND GEOTECHNICAL DESIGN CRITERIA.

7. THE DESIGN ASSUMES THAT THE SITE IS RELATIVELY FLAT WITH GROUND SURFACES AND GRADE ELEMENTS THAT ARE NOT REQUIRED TO BE RELIEVED BY INSTALLATION OF STRUCTURAL FILL TO BE NON-REACTIVE CBR15 PLACED IN 200mm THICK LOOSE LAYERS AND COMPACTED TO 98% M.D.D.

8. IT IS IMPORTANT THAT THE SITE BE WELL DRAINED. THE GROUND AROUND THE POOL AREA TO ACHIEVE COMPLIANCE WITH STRUCTURAL AND GEOTECHNICAL DESIGN CRITERIA.

9. THE CUSTOMER SHALL ENGAGE A CERTIFIED GEOTECHNICAL ENGINEER TO CONDUCT A SOIL TEST TO ASSESS THE STRENGTH AND COMPATIBILITY OF THE SOIL TO ACCOMMODATE THE WEIGHT OF THE POOL SHELL. THE SOIL TEST SHALL BE CONDUCTED IN ACCORDANCE WITH AS2870.
90 THICK WALL

90 THICK WALL

90 THICK WALL

90 THICK WALL

DRAIN VOID CAST IN AS PER MANUFACTURER'S SPECIFICATIONS

PRECAST CONCRETE SWIMMING POOL GENERAL ARRANGEMENT PLAN

SCALE N.T.S

A

S401

B

S402

C

S401

D

S401

DENOTES INSTALLATION LIFTING LUGS. REFER SECTIONS.

SECTION

SCALE

A

S401 N.T.S

150

1690

300 300

300

EQ EQ EQ EQ EQ

DENOTES M20 x 70 LONG INSTALLATION LIFTING LUGS. REID ELEPHANT FOOT OR ANCON QWICKFOOT OR APPROVED EQUIVALENT. (STAINLESS STEEL) MAX WORKING SHEAR LOAD = 17kN (AT f'c ≥ 25 MPa) TO BE GROUTED UP AFTER INSTALLATION.

SECTION

SCALE

C

S401 N.T.S

1690

300 300

300

300

EQ EQ EQ

DENOTES M20 x 70 LONG INSTALLATION LIFTING LUGS. REID ELEPHANT FOOT OR ANCON QWICKFOOT OR APPROVED EQUIVALENT. (STAINLESS STEEL) MAX WORKING SHEAR LOAD = 17kN (AT f'c ≥ 25 MPa) TO BE GROUTED UP AFTER INSTALLATION.

SECTION

SCALE

D

S401

N.T.S

4 OFF Ø40 CAST-IN CONDUIT PENETRATIONS EVENLY SPACED, SHOWN INDICATIVELY. REFER NOTES

SECTION

SCALE

PRECAST WATER HOLDING TANK

PLUNGE POOL COMPANY PTY LTD.

GENERAL ARRANGEMENT PLAN AND SECTIONS

6m x 3m SHELL

NOTE:
1. STRUCTURAL DRAWINGS TO BE READ IN CONJUNCTION WITH S400 GENERAL NOTES
   DRAWING, S401 GENERAL ARRANGEMENT PLAN, S402 REINFORCEMENT PLANS
   DRAWING AND S403 TYPICAL INSTALLATION DETAILS DRAWING.
2. WEIGHT OF SHELL = 10.1t APPROX. (EXCLUDING REINFORCEMENT AND FINISHES)
3. SKIMMER BOX SETDOWN AND CAST-IN CONDUITS SETOUT TO BE CONFIRMED
   PRIOR TO POUR. SKIMMER BOX AND CONDUITS REQUIRED ONE SIDE ONLY.

CAST-IN LIFTING LUG INSERTS NOT SHOWN. REFER PLAN AND SECTIONS FOR LOCATIONS

3D PERSPECTIVE VIEWS

LEVEL 9, 269 WICKHAM STREET, PO BOX 612
FORTITUDE VALLEY QLD 4006 AUSTRALIA

T 07 3251 8555     F 07 3251 8599

DRAWN

DESIGN

APPROVED

PROJECT

LOCATION

CLIENT

DRAWING TITLE

ARCHITECT

ASSOCIATE CONSULTANT

SCALES

JOB NO

DRAWING NUMBER

REVISION

REV DATE DESCRIPTION

CHECKED

RPEQ No.

AS INDICATED AT A1

MW

RT

MC

MW

MC

6m x 3m SHELL

GENERAL ARRANGEMENT PLAN AND SECTIONS

S401

PLUNGE POOL COMPANY PTY LTD.

ARCHITECT

ASSOCIATE CONSULTANT

2017.0077

2017.0077

RT

MC

S401

C1

21/11/2017

C1 16.12.2019

PRELIMINARY ISSUE

CONSTRUCTION ISSUE

MW

RT

MC

PRELIMINARY ISSUE

S401

07/07/2019

MW

RT

MC

CONSTRUCTION ISSUE

2017.0077

MW

MC

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Notes:
1. Structural drawing to be read in conjunction with S400 General Notes Section, S401 General Arrangement Plan S402 Reinforcement Plan and S403 Typical Installation Details drawing.

2. Skimmer box setdown and cast-in conduits setout to be confirmed prior to pour. Skimmer box and conduits required one side only.

(1) ... denotes reinforcement laid first (against mould)

(2) ... denotes reinforcement laid second (external face)

Legend

1. 2N10 trimmer bars at 50 CRS

2. 2N10 trimmers at 50 CRS

3. 250 Typical

4. Vertical wall bar in corner

5. Horizontal wall reinforcement with 500 COG

6. Corner bar with reduced to nailcode and one of vertical wall bar from cover to basin head

7. Horizontal flange coupler

8. Ref: reinforcement plan for reinforcement details.

9. Section B on DRG S401 for vertical wall reinforcement setout at steps.

Typical internal to external wall detail

Detail: ST

Scale: 1:10

Typical wall to wall mitre corner detail

Wall to slab mitre joint similar

Wall W1 reinforcement elevation

Scale: 1:10

Wall W2 reinforcement elevation

Scale: 1:10

Wall W3 reinforcement elevation

Scale: 1:10

Wall W4 reinforcement elevation

Scale: 1:10

Note: Refer Section B on DRG S401 for vertical wall reinforcement setout at steps.
IN-GROUND ABOVE-GROUND

SITE CLASS A/S/M

MIN 900
MAX 900

SITE CLASS H1/H2

MIN 900
MIN 200
MAX 900

SITE CLASS E

SITE SPECIFIC DESIGN REQUIRED

PIERS EMBEDDED INTO SUITABLE MATERIAL (INDICATIVE ONLY)

NOTE: DESIGN OF FOUNDATIONS FOR SITE CLASS E ARE SHOWN INDICATIVELY ONLY.

FOUNDATIONS TO SUPPORT PRECAST SHELL IN SITE CLASS E ARE TO BE DESIGNED AND CERTIFIED BY A CERTIFIED ENGINEER.

900W IMPERVIOUS SURROUND AND 100KTH REINFORCED CONCRETE BASE SLAB (1 LAYER SL72 MESH, 50 COVER) BASE SLAB TO EXTEND 200mm MIN PAST EDGE OF POOL.

1200W IMPERVIOUS SURROUND AND 180KTH REINFORCED CONCRETE BASE SLAB (2 LAYERS SL72 MESH TOP AND BOTTOM - 4 LAYERS TOTAL, 50 COVER) BASE SLAB TO EXTEND 200mm MIN PAST EDGE OF POOL.

200 TYP

TYPICAL POOL PLAN

SCALE 1:50

TYPICAL POOL SECTION

SCALE 1:50

TYPICAL POOL PLAN

SCALE 1:50

SITE CLASS A/S/M

SITE CLASS H1/H2

SITE CLASS E - SITE SPECIFIC DESIGN REQUIRED

NOTE: SIZING OF PIER MATERIAL FOR SITE CLASS E IS DESIGN SPECIFIC ONLY AND IS BEYOND THE RESPONSIBILITY OF PRECAST WATER HOLDING TANK, 6m x 3m SHELL, AND IS TO BE DESIGNED AND CERTIFIED BY A SUITABLE ENGINEER.

PLUNGE POOL COMPANY PTY LTD.

ARCHITECT

ASSOCIATE CONSULTANT

DRAWN

DESIGN

APPROVED

PROJECT LOCATION

CLIENT

DRAWING NUMBER

REV DATE DESCRIPTION

CHECKED

RPEQ No.

PRECAST WATER HOLDING TANK

PLUNGE POOL COMPANY PTY LTD.

SITE CLASSIFICATION FOOTING OPTIONS

Preliminary

Construction

07/07/2019

16/12/2019

11.07.2019

C1

16.12.2019

C1

PRELIMINARY ISSUE

CONSTRUCTION ISSUE

P1

C1

CONSTRUCTION ISSUE

PRELIMINARY ISSUE

C1

CONSTRUCTION ISSUE

PRELIMINARY ISSUE

PRELIMINARY ISSUE

CONSTRUCTION ISSUE

S403

2017.0077

6m x 3m SHELL

AS INDICATED AT A1

1 : 50

SCALE

1 : 50

SCALE

500mm 0 500 1000 1500 2000

LEVEL 9, 269 WICKHAM STREET, PO BOX 612
FORTITUDE VALLEY QLD 4006 AUSTRALIA

T 07 3251 8555     F 07 3251 8599

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