G2. ANY DISCREPANCIES OR OMISSION CONTAINED WITHIN THESE DRAWINGS SHALL BE REFERRED TO THE DESIGNER (CIVIL CONSULT) FOR CLARIFICATION PRIOR TO PROCEEDING

G3. ALL WORKMAN SHIP AND MATERIALS SHALL COMPLY WITH THE APPROPRIATE CURRENT AUSTRALIAN STANDARDS, EXCEPT WHERE MODIFIED BY THE DRAWINGS

G4. ALL DIMENSIONS ARE IN MM UNLESS NOTED OTHERWISE

G5. ALL DIMENSIONS SHOWN ON THESE DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION OR

G6. DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED

G7. UND DENOTES UNLESS NOTED OTHERWISE

G8. ALL CODES REFERRED TO IN THESE NOTES ARE THE LATEST EDITIONS WITH AMENDMENTS

SITEWORK NOTES:

SNI. THE CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK, AND REPORT ANY DISCREPANCIES TO THE DESIGNER (CIVIL

SN2. ALL EXISTING SERVICES (INCLUDING ANY NOT SHOWN ON THESE PLANS) MUST BE ACCURATELY LOCATED IN POSITION AND LEVEL PRIOR TO ANY EXCAVATION. MINIMUM SERVICE CLEARANCE SHALL BE MAINTAINED FROM RELEVANT SERVICE AUTHORITY

SN3. THE CONTRACTOR SHALL ARRANGE FOR ALL SETTING DUT BY A SURVEYOR FAMILIAR WITH THIS TYPE OF WORK

ANCHOR NOTES:

A1. THE DESIGN INCORPORATES THE USE OF POST INSTALLED ANCHORS. THE CONTRACTOR IS TO INSTALL ANY ANCHORS IN ACCORDANCE WITH THE ANCHOR'S SUPPLIERS INSTALLATION 2NULTUINEENI

A2. THE EMBEDMENT DEPTH OF ANY POST INSTALLED FIXINGS SHALL BE IN ACCORDANCE WITH THE MANUFACTURES RECOMMENDATION UND

A3. TENSIONING OF ANY POST INSTALLED FIXINGS SHALL BE IN ACCORDANCE WITH THE MANUFACTURES RECOMMENDATION UND

GENTECHNICAL NUTES

GT1. GEDTECHNICAL PARAMETERS USED IN DESIGN HAVE BEEN GETTE ABBIECTION OF THE PROVIDED GEOTECHNICAL REPORT:

- GEOTECH INVESTIGATIONS PTY LTD: REPORT NO.: GI 4985-A

GT2. EXPECTED GROUND CONDITIONS ARE LODGE TO MEDIUM DENSE SANDS OVERLYING FIRM ALLUVIAL CLAYS. IF UNEXPECTED GROUND CONDITIONS ARE ENCOUNTERED, REFER TO DESIGNER FOR REVIEW OF PROPOSED DESIGN.

WELDING NOTES

W1. ALL WELDING SHALL BE IN ACCORDANCE WITH AS 1554 PART 1

W2. ALL WELDS ARE CATEGORY SP

W3. ALL WELDS TO VISUALLY INSPECTED.

W4. ANY DEFECTIVE WELDS ARE TO BE REMOVED, REINSTATED AND INSPECTED IN ACCURDANCE WITH AS1554

STRUCTURAL STEEL NOTES:

S1. ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH AS4100 AND AS1554 EXCEPT WHERE VARIED BY THE DESIGN CONTAINED WITHIN THESE DRAWINGS

S2. STEEL COMPONENTS SHALL CONFORM TO THE FOLLOWING

STEEL GRADE SUMMARY TABLE					
COMPONENT	AUSTRALIAN STANDARD	GRADE			
PLATE	AS/NZS 3678	250			
HOT ROLLED SECTION	AS/NZS 3679	300			
RHS AND SHS	AS 1163	c350			
WELDED BEAMS, COLUMNS	AS/NZS 3679	300			
FLAT BARS, RODS	AS/NZS 3679	300			
THREADED ROD/BOLT	-	GRADE 8.8			

S3. BOLT DESIGNATION

COMMERCIALLY BOLTS OF GRADE 4.6 TO AS1111 SNUG 4.6/\$ TIGHTENED

HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO 2\8.8

ASI252 SNUG TIGHTENED
HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS1252 FULLY TENSIONED TO AS4100 AS A BEARING

JDINT HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS1252 FULLY TENSIONED TO AS4100 AS A FRICTION JOINT WITH CONTACT SURFACES LEFT UNCOATED

S4. ALL WELDS TO BE 6MM CONTINUOUS FILLET WELDS UND. ALL BUTT WELDS TO BE COMPLETE PENETRATION BUTT WELDS. ELECTRODES TO BE E49XX OR EQUAL UND. WELD

S5. ALL PLATES SHALL BE 12mm UND

S6. ALL STEEL ELEMENTS TO BE HOT DIP GALAVANISED TO AS2312.2. GALVANISED COATING TO BE HDG600 TO AS 4680. ESTIMATED LIFE EXPECTANCY OF GALVANIC COATING BEFORE MAINTENANCE IS REQUIRED IS 30YRS.

S7. THE CONTRACTOR SHALL PROVIDE ALL CLEATS AND DRILL HOLES NECESSARY FOR ALL ATTACHMENTS PRIOR TO GALVANISING WHETHER DR NOT DETAILED ON THE DRAWINGS.

CONCRETE NOTES:

C1. REINFORCED CONCRETE DESIGN IN ACCORDANCE WITH AS3600.

C2. CONCRETE EXPOSURE CLASSIFICATION FOR ALL CONCRETE ELEMENTS - B2.

C3, MINIMUM COMPRESSIVE STRENGTH DF ALL CONCRETE ELEMENTS AT 28-DAYS IS 40MPa.

C4. ALL EDGES OF CONCRETE ELEMENTS TO HAVE 20x20mm CHAMFER UNLESS SPECIFIED DTHERWISE

C5. FORMED INTERIOR/EXTERIOR TO BE CLASS 2, FINISHED SURFACES AS FOLLOWS UND:
- SLABS: FINE BROOM FINISH

- WATER SERVICE PITS: TROWELLED.

REINFORCEMENT NOTES:

R1. ALL REINFORCEMENT GRADE D500N TO AS4671.

R2. NO LAPS OR SPLICES PERMITTED UND.

R3. ALL REINFORCEMENT TO BE LOCATED AS SHOWN ON THE STRUCTURAL DRAWINGS UNI.

R4. REINFORCEMENT IN WALLS/BASE OF WATER SERVICES PITS TO BE CENTRALLY LOCATED.

R5. MINIMUM COVER TO ALL REINFORCEMENT IS 45mm UND.

R6. MINIMUM LAP/SPLICE LENGTHS WHERE INDICATED ARE TO BE CALCULATED IN ACCORDANCE WITH AS3600, OR SHALL BE EQUAL TH 39 BAR DIAMFTERS.

DESIGN LOAD NOTES:

D1. ADOPTED DESIGN LIFE FOR ALL STRUCTURAL ELEMENTS: 50 YEARS.

D2. DESIGN LOADS FOR EACH STRUCTURAL ELEMENT ARE IN ACCORDANCE WITH THE RESPECTIVE AUSTRALIAN STANDARD UND.

DESIGN LOADS FOR EACH ELEMENT ARE AS FOLLOWS:

WALKWAY STRUCTURE LOADS & DESIGN IN ACCORDANCE WITH AS1657 &

AS5100:

• LIVE DISTRIBUTED LOAD: 3.0KPa
• LIVE POINT LOAD: 1.1kN

- LIVE POINT LOAD: 1.1kN DEAD LOADS: (50kg/m² ALLOWED FOR WEBFORGE GRATING)
- LATERAL STREAM LOAD (ASSUMED MAX. VELOCITY OF 2.0m/s) TO
- DDWNWARD/UPWARD STREAM LOAD (ASSUMED MAX, VELOCITY OF 2.0m/s) TO ASSIGO.

 HANDRAIL DESIGN LOADS AS PER WEBFORGE LOAD RATING (BUT NOT
- LESS THAN REQUIRED IN AS1657).

HYDRAULIC JUMP BRACE LOADS AND DESIGN IN ACCORDANCE WITH AS4100: • 10kN STRUCTURAL ROBUSTNESS LOAD PLACED AT HEIGHT OF PIPE

CL AMP.

FORCES FROM WATER FLOW THROUGH PIPES HAVE BEEN IDENTIFIED AS NEGLIGIBLE BY PLANIT CONSULTING AND THEREFORE HAVE NOT BEEN

CONCRETE HARDSTAND/SWALE FOUNDATION LOADS AND DESIGN IN

CONDANCE WITH ASI170, AS3600:

• INDUSTRIAL FLOOR USAGE LOADS - 700kPα TYRE PRESSURE FOR SLAB TYPE I (W80 WHEEL LOAD PRESSURE).

• FOUNDATIONS HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 75kPα, PROVIDING A 200mm LAYER OF COMPACTED GRANULAR MATERIAL IS PLACED AS PER THE DESIGN DETAILS PROVIDED IN THIS DRAWING SET.

- CONCRETE WATER SERVICE PIT LOADS AND DESIGN TO AS3600, AS1170 & AS3996
- DESIGN LOADS ON PIT WALLS FROM VEHICLES (CLASS B) IN ACCORDANCE WITH AS3996.
- LOADS ON PIT WALLS FROM EARTH PRESSURE IN ACCORDANCE WITH
- FOUNDATIONS HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING
- PRESSURE OF 75KPG.

 MAXIMUM ALLOWABLE LOAD PERPENDICULAR TO CONCRETE PIT WALL AT PUDDLE FLANGE LOCATIONS IS AS SHOWN ON THE DRAWING SHEET. IF THE FACTORED DESIGN LOAD IS EXPECTED TO BE IN EXCESS OF THESE DETAILS, CONTACT ENGINEER FOR ALTERNATIVE DETAILS.

EXCAVATION NOTES:

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ANY EXCAVATIONS ARE COMPLETED IN A SAFE MANNER. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE EXCAVATION AT ALL TIMES DURING THE WORKS, AND THEY SHALL MAINTAIN STABLE AS REQUIRED UNDER VARYING ENVIRONMENTAL CONDITIONS

				SCALE
Α	ISSUED FOR CONSTRUCTION	19/02/2020	N.SAENGER	
ISSUE	DESCRIPTION	DATE	APPROVAL	



21 CLARK STREET, BALLINA, NSW, 2478 ABN:12591694943 PH: (02) 6686 9036 E: info@civilconsult.com.au

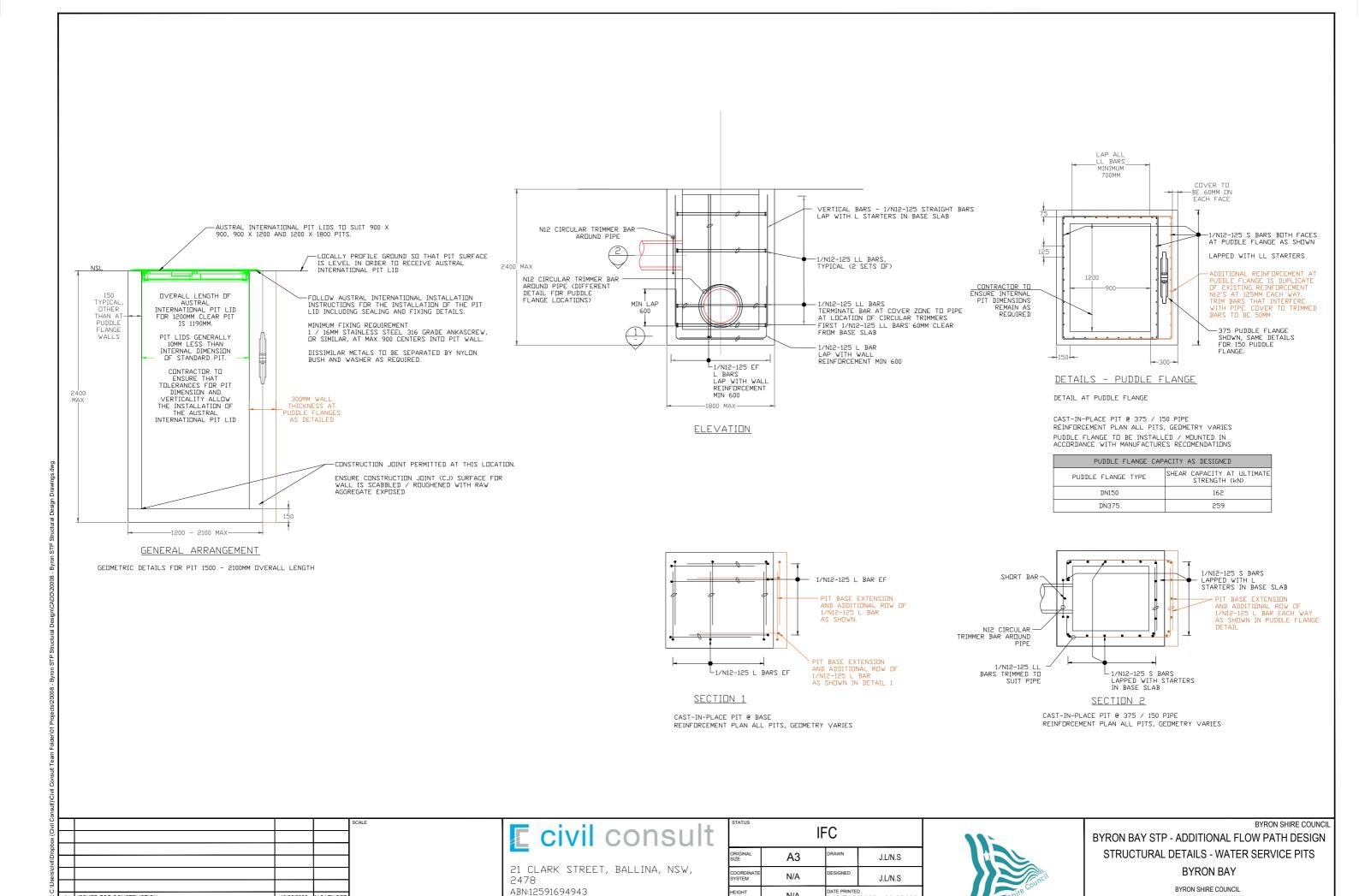
IFC				
ORIGINAL SIZE	A3	DRAWN	J.L/N.S	
COORDINATE SYSTEM	N/A	DESIGNED	J.L/N.S	
HEIGHT DATUM	N/A	DATE PRINTED 19 Feb 2020 - 09:29AM		
FILE: 20008 - Byron STP Structural Des		siggiDrawing	gstatugio:	



BYRON SHIRE COUNCI BYRON BAY STP - ADDITIONAL FLOW PATH DESIGN **GENERAL NOTES BYRON BAY**

BYRON SHIRE COUNCIL

20008 S-01 Α



PH: (02) 6686 9036 E: info@civilconsult.com.au

A ISSUED FOR CONSTRUCTION

DESCRIPTION

19/02/2020 N.SAENGEF

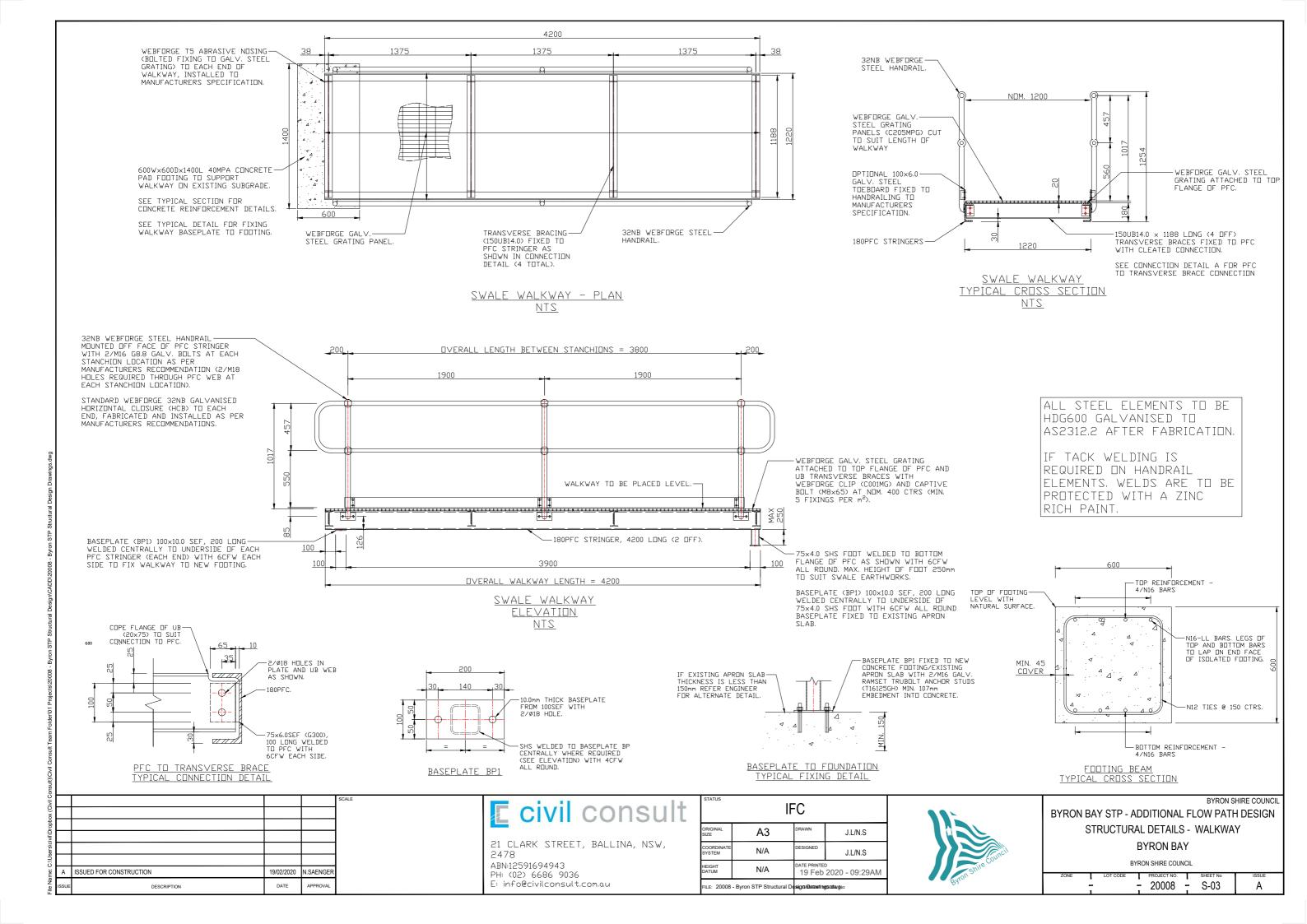
DATE

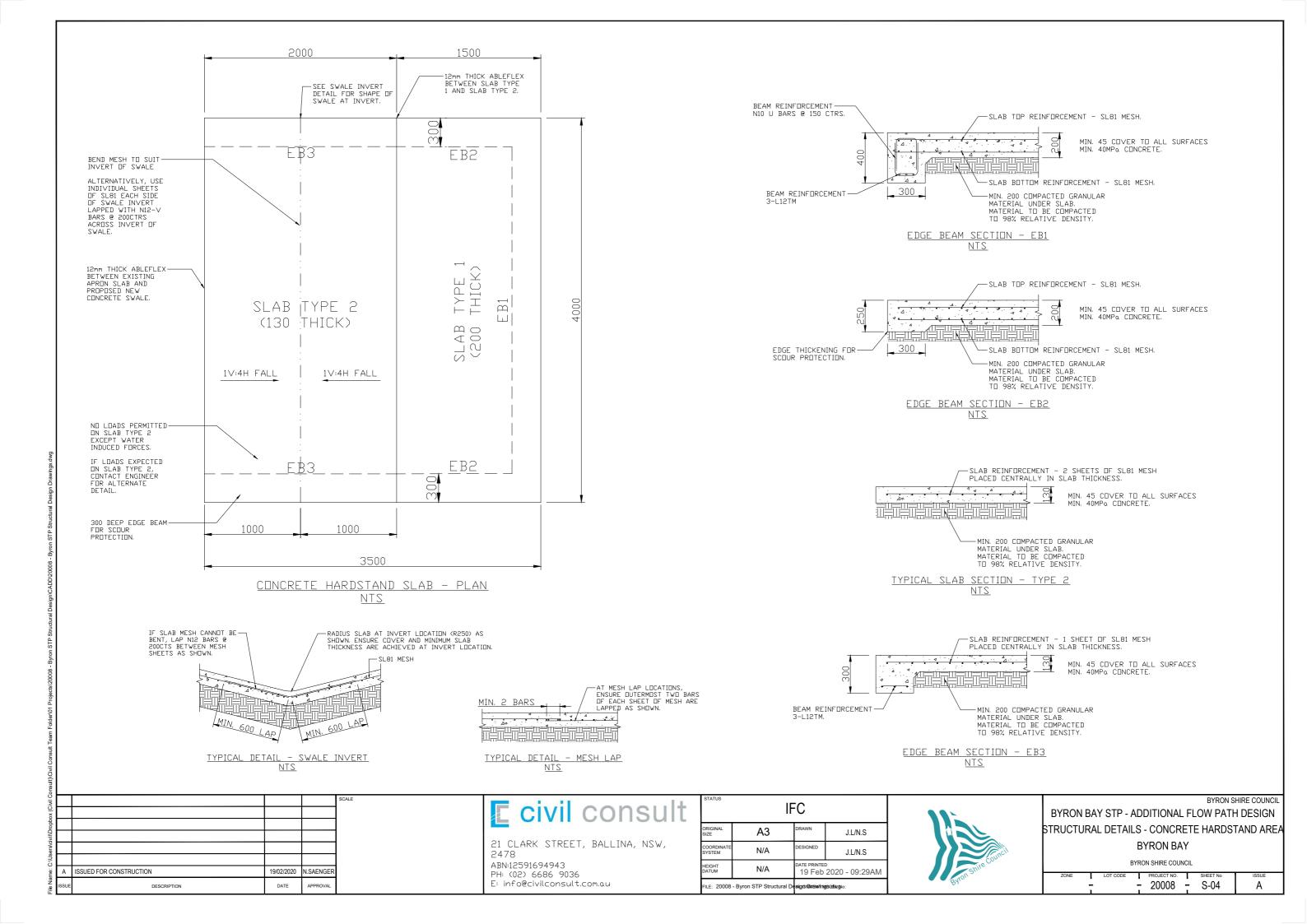
N/A

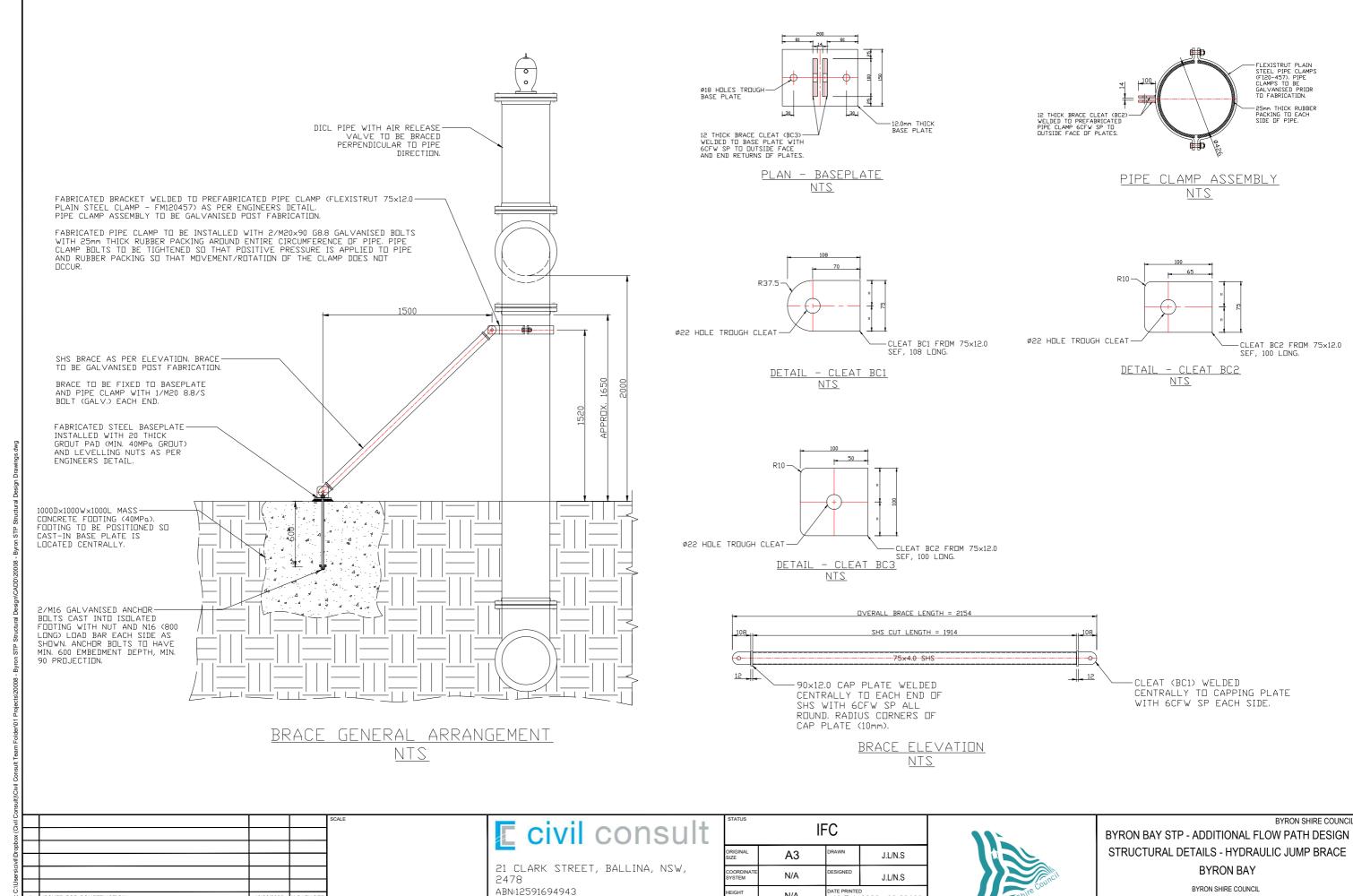
ILE: 20008 - Byron STP Structural Design Draw

19 Feb 2020 - 09:29AM

20008 S-02 Α







PH: (02) 6686 9036 E: info@civilconsult.com.au N/A

ILE: 20008 - Byron STP Structural DesigniDura

19 Feb 2020 - 09:29AM

20008

S-05

Α

ISSUED FOR CONSTRUCTION

19/02/2020

DATE