

GENERAL

- G1. DESIGN IS BASED UPON EARTH-RETAINING STRUCTURES CODE AS 4678
- G2. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT.
- G3. APPROVAL FOR THE USE OF ALTERNATIVE PRODUCTS OR DETAILS SHALL BE SOUGHT FROM THE ENGINEER. ANY APPROVAL GIVEN DOES NOT CONSTITUTE AUTHORISATION OF A VARIATION, WHICH MUST BE REFERRED TO THE ARCHITECT / SUPERINTENDENT FOR AUTHORISATION BEFORE THE WORK COMMENCES.
- G4. ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE WORK SHALL BE VERIFIED BY THE CONTRACTOR BEFORE FABRICATION OR CONSTRUCTION COMMENCES.
- G5. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE BCA, RELEVANT AUSTRALIAN STANDARDS AND THE REQUIREMENTS OF LOCAL COUNCIL AND OTHER RELEVANT STATUTORY AUTHORITIES.
- G6. ALL CODES AND STANDARDS REFERRED TO IN THESE NOTES OR ON THE DRAWINGS ARE THE CURRENT EDITION INCLUDING AMENDMENTS.
- G7. DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURE IN A STABLE CONDITION AND ENSURING THAT NO PART IS OVERSTRESSED UNDER CONSTRUCTION ACTIVITIES.

 THE BUILDER IS RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL TEMPORARY WORKS REQUIRED FOR THE BUILDING OF THE PROJECT.
- G8. THE CONTRACTOR SHALL EMPLOY A QUALIFIED GEOTECHNICAL ENGINEER AS REQUIRED TO VERIFY THE ADEQUACY OF THE FOUNDING MATERIAL PRIOR TO PLACEMENT OF CONCRETE
- G9. THE CONTRACTOR SHALL GIVE 48 HOURS NOTICE OF INSPECTIONS BEING REQUIRED BEFORE ANY STRUCTURAL WORK IS CONCEALED.
- G10. THE DESIGN CRITERIA ARE AS FOLLOWED:
 - PIERS TO BE FOUNDED INTO FIRM SILTY SANDY CLAY WITH A MINIMUM ALLOWABLE BEARING PRESSURE OF 70 kPa (REFER RETAINING WALL INVESTIGATION REPORT, REF: J21/03, PREPARED BY WAGNER, DATED 22 SEPTEMBER 2021)
 - RETAINING WALL DESIGNED FOR 5kPa IMPOSED LOADING

 UN O
 - ULTIMATE SITE DESIGN WIND SPEED (Vu = 50m/s)
- G11. LARGE TREES & SHRUBS SHALL NOT BE PLANTED WITHIN 1x THE WALL HEIGHT
- G12. THE WORD 'ENGINEER' USED IN THESE NOTES OR ON THE DRAWINGS REFER TO AN EMPLOYEE OR NOMINATED REPRESENTATIVE OF **VAN DER MEER CONSULTING.**
- G13. THE DESIGN IS BASED UPON THE ASSUMPTION THAT THE WALL IS FOUNDED ON GROUND NOT SUBJECT TO SLIP. THE DETERMINATION OF THE SITE SUSCEPTIBILITY TO SLIP IS THE RESPONSIBILITY OF THE PROJECT ENGINEER AND THE GEOTECHNICAL CONSULTANT AND IS BEYOND THE SCOPE OF WORK OF VAN DER MEER CONSULTING.
- G14. ALL DISCREPANCIES SHALL BE REFERRED TO THE ENGINEER FOR A DECISION BEFORE PROCEEDING WITH THE WORK.

NOTE:

THE CONTRACTOR SHALL ENSURE THAT ALL PERSONNEL ON SITE HAVE BEEN ADEQUATELY TRAINED AND ARE AWARE OF ALL HEALTH AND SAFETY REGULATIONS.

OOWOOMBA REGIONAL COUNCIL

AMENDED PLAN
REQUIRED TO BE SUBMITTED FOR
APPROVAL
Refer to Condition Number
5

referred to in Council's Decision Notice dated
12 May 2023
is plan is subject to conditions of Approval Number
OW/2022/5568

STRUCTURAL STEELWORK

- S1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 4100 AND REFERENCED AUSTRALIAN STANDARDS.

 ERECTION BRACING AND STABILITY SHALL BE IN ACCORDANCE WITH AS 3828 AND IS THE RESPONSIBILITY OF THE CONTRACTOR.

 STEEL FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH AS 5131.
- S2. STEEL SHALL COMPLY WITH THE FOLLOWING UNLESS NOTED OTHERWISE.

COMPONENT	AUS. STAND.	GRADE
HOT ROLLED SECTIONS (UB, UC)	AS 3679.1	300 PLUS
PLATE AND FLOORPLATE	AS 3678	250
HOT ROLLED BARS (FLATS, SQUARES AND ROUNDS)	AS 3679.1	300 PLUS

WELDING

- S3. ALL WELDING SHALL BE IN ACCORDANCE WITH AS 1554.
- S4. UNLESS NOTED OTHERWISE:
- ALL WELDS SHALL BE 6mm CONTINUOUS FILLET WELDS.
- ALL BUTT WELDS SHALL BE COMPLETE PENETRATION BUTT WELDS.
- ALL WELDS SHALL BE CATEGORY SP.
- ELECTRODES SHALL BE E48XX/W50X
- S5. ALL WELDS SHALL BE SUBJECT TO INSPECTION AND TESTING IN ACCORDANCE WITH AS 1554. THE EXTENT OF NON-DESTRUCTIVE EXAMINATION SHALL NOT BE LESS THAN THE FOLLOWING:

WELD	WELD	EXTENT OF NON-DESTRUCTIVE EXAMINATION			
CAT. TYPE		VISUAL SCANNING	VISUAL EXAMINATION	OTHER METHODS	
GP	ALL	100%	10%	NIL	
SP	FILLET WELD	100%	25%	NIL	
SP	BUTT WELD	100%	50%	NIL	

PROTECTIVE COATINGS

- S6. ALL EXTERNAL STEELWORK TO BE HOT-DIPPED GALVANISED IN ACCORDANCE WITH TABLE 1 OF AS4680
- S7. DRILLED HOLES TO BE LOCALLY TREATED WITH 2 COATS OF APPROVED GALVANIZED PAINT IN ACCORDANCE OF AS3750.9 WITH A MINIMUM DRY FILM THICKNESS OF 50µm PER COAT AND INSTALLED TO MANUFACTURERS SPECIFICATION

CONCRETE

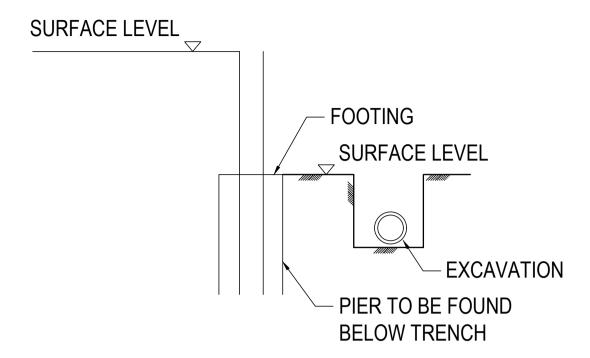
- C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 AND OTHER RELEVANT AUSTRALIAN STANDARDS.
- C2. CONCRETE SHALL BE SUPPLIED BY AN APPROVED MANUFACTURER IN ACCORDANCE WITH AS1379.
- 3. CONCRETE SHALL HAVE THE FOLLOWING PARAMETERS:

ELEMENT	STRENGTH GRADE	SLUMP (mm)	MAX AGG.SIZE (mm)
PIERS	N25	100	20
LEEPER PANELS	N40	80	20

- C3. MAXIMUM AS3600 EXPOSURE CLASSIFICATION B1 (NEAR COASTAL (1-50km OR GREATER), SURFACES IN CONTACT WITH NON-AGGRESSIVE SOILS ONLY)
- C3. SLEEPER'S TO BE REINFORCED WITH MINIMUM 2-N12 BARS PLACED CENTRALLY (25 MIN. COVER)

FOOTING

F1. WHERE FOOTINGS ARE LOCATED ADJACENT TO EXISTING EXCAVATIONS, TRENCHES, BURIED SERVICES OR THE LIKE RUNNING PARALLEL TO THE WALL, THE CONTRACTOR SHALL CONTACT VAN DER MEER FOR A SITE SPECIFIC DESIGN



F2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EXCAVATIONS IN A STABLE CONDITION, WITHOUT AFFECTING ADJACENT PROPERTIES OR SERVICES.
WHERE REQUIRED, TEMPORARY SHORING SHALL BE PROVIDED TO THE SIDES OF EXCAVATIONS.

TIMBER

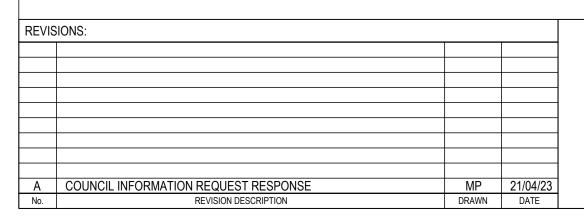
- T1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS1720.1 SAA TIMBER STRUCTURES CODE AND AS1684 NATIONAL TIMBER FRAMING CODE
- T2. ALL TIMBER SHALL BE FREE OF GUM VEINS, POCKETS, KNOTS, KNOT HOLES OR SPLITS WITHIN 150mm OF ANY CONNECTION
- T3. WASHERS SHALL BE PROVIDED UNDER ALL NUTS AND BOLT HEADS BEARING AGAINST TIMBER IN ACCORDANCE WITH THE FOLLOWING TABLE:

BOLT SIZE	WASHERS
UP TO M12	50 x 50 x 3.0 mm THICK
M16	57 x 57 x 4.0 mm THICK
M20	65 x 65 x 5.0 mm THICK
OVER M20	75 x 75 x 6.0 mm THICK

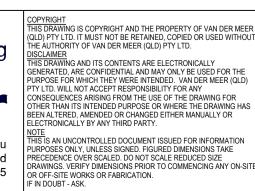
- T4. ALL BOLTS SHALL BE ACCESSIBLE AND RE-TIGHTENED AT THE COMPLETION OF CONTRACT AND ALSO AT END OF THE MAINTENANCE PERIOD
- T5. IN HARDWOOD TIMBER OR LOCATIONS SUBJECTED TO SPLITTING, NAILS ARE TO BE INSTALLED IN PRE-DRILLED HOLES, WITH 80% OF DIAMETER OF NAIL USED
- T6. ALL TIMBER EXPOSED TO WEATHER, DAMP ENVIRONMENT OR PEST (WHITE ANTS) TO BE TREATED WITH AN APPROVED PEST RESISTING AND WOOD PRESERVING COMPOUND ON ALL FACES, ENDS AND NOTCHES
- T7. PERIODIC INSPECTIONS OF THE TIMBERS SHOULD BE CARRIED OUT AS MAINTENANCE AND SHOULD ANY DEFECTS BE FOUND THEY MUST BE RECTIFIED IMMEDIATELY.
- T8. ALL WORKS TO BE CARRIED OUT AS PER GOOD BUILDING PRACTICE
- T9. TIMBER SHALL BE TREATED TO H3 HAZARD LEVEL, MINIMUM

DESIGN REFERENCES

- D1. FOR RETAINING WALL NO. AND LOCATION OF FOOTING WITH RESPECT TO BOUNDARY, REFER TO RETAINING WALL LAYOUT SHEET 1, 12364-C0810H & RETAINING WALL LAYOUT SHEET 2, 12364-C0811H, PREPARED BY BORNHORST + WARD CONSULTING ENGINEERS, DATED 04 NOV 2021
- D2. FOR 'FOOTING TO BE WHOLLY WITHIN BOUNDARY' & 'WALL FACE TO BOUNDARY' DETAIL, REFER TO RETAINING WALL DETAILS, 12364-C0800A, PREPARED BY BORNHORST + WARD CONSULTING ENGINEERS. DATED 04 NOV 2021
- D3. REFER TO 'SLEEPER RETAINING WALL TABLES' FOR DESIGN VARIABLES





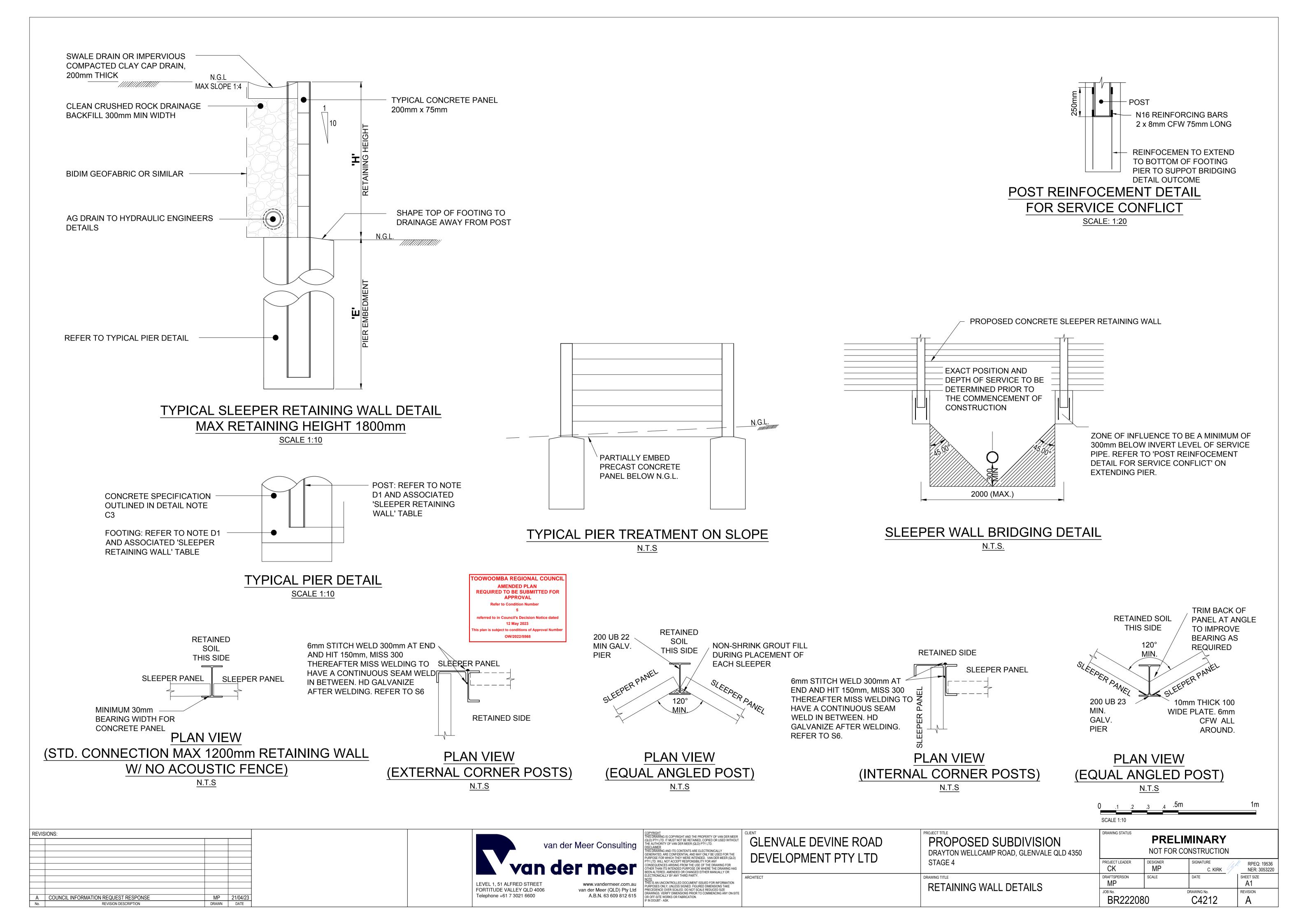


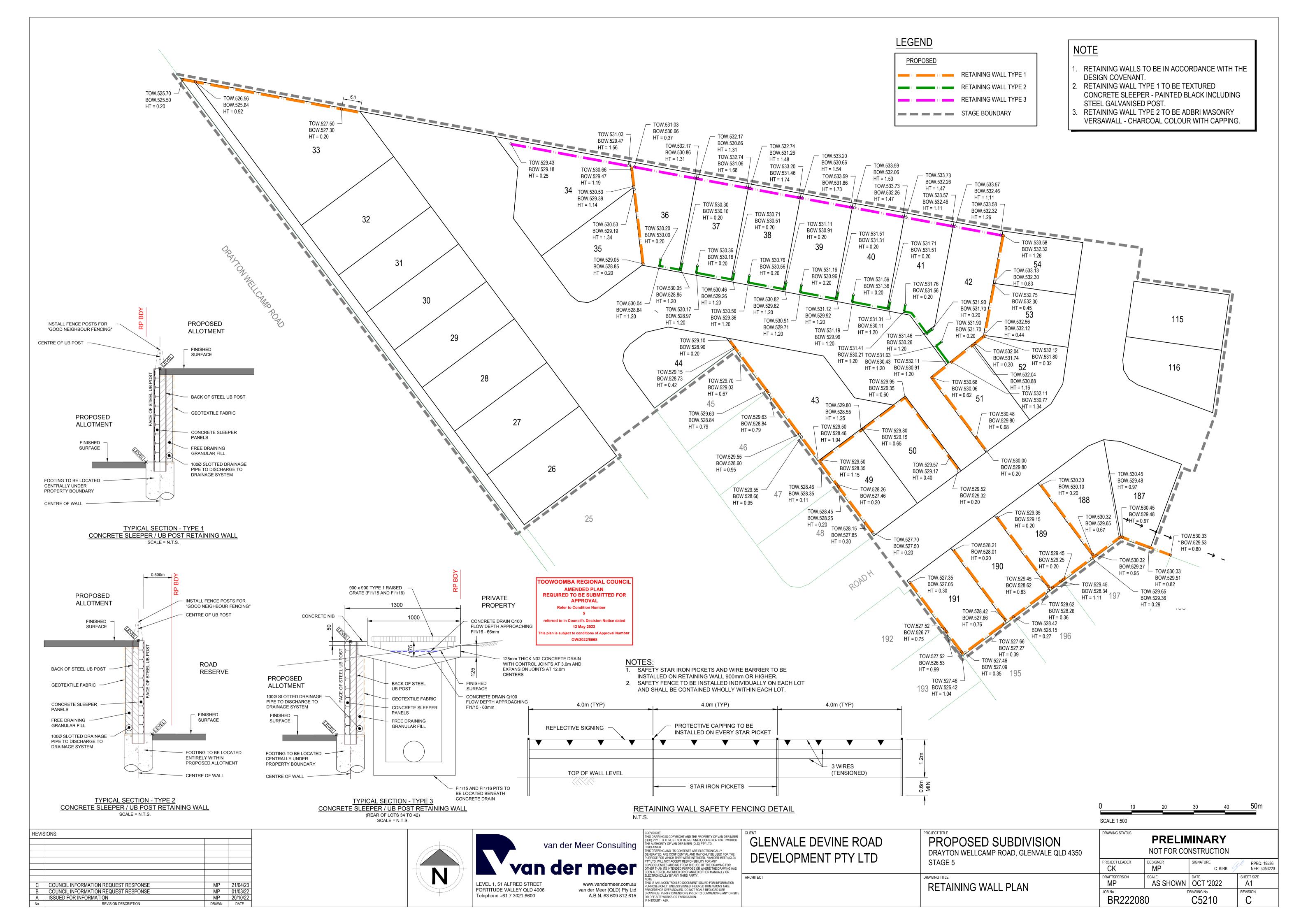


PROJECT TITLE
PROPOSED SUBDIVISION
DRAYTON WELLCAMP ROAD, GLENVALE QLD 4350
STAGE 4
STAGE 4

STRUCTURAL NOTES

PRELIMINARY NOT FOR CONSTRUCTION					
ROJECT LEADER CK	DESIGNER MP	SIGNATURE C. KIRK	Chil	RPEQ: 19536 NER: 3053220	
RAFTSPERSON SCALE MP		DATE	,	SHEET SIZE A1	
OB No. BR22208		C4211		REVISION	





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NOTE:

REVISIONS:

A COUNCIL INFORMATION REQUEST RESPONSE

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MP 21/04/23

TOOWOOMBA REGIONAL COUNCIL

AMENDED PLAN
REQUIRED TO BE SUBMITTED FOR
APPROVAL

Refer to Condition Number
5
referred to in Council's Decision Notice dated
12 May 2023
This plan is subject to conditions of Approval Number
OW/2022/5568

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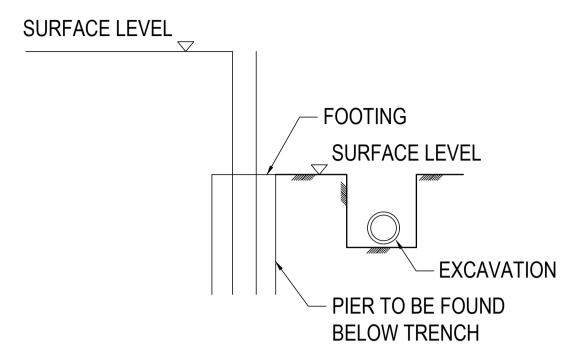
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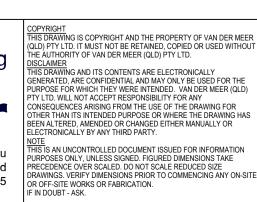
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PROJECT TITLE	ĺ
PROPOSED SUBDIVISION	
DRAYTON WELLCAMP ROAD, GLENVALE QLD 4350	ı
STAGE 5	
DRAWING TITLE	ĺ
STRUCTURAL NOTES	-

PRELIMINARY NOT FOR CONSTRUCTION					
PROJECT LEADER CK	DESIGNER MP	SIGNATURE	C. KIRK	/g/R	RPEQ: 1953 NER: 305322
DRAFTSPERSON MP	AS SHOWN	DATE		SHEE	T SIZE
JOB No. BR22208		C521	1	REVIS	SION

