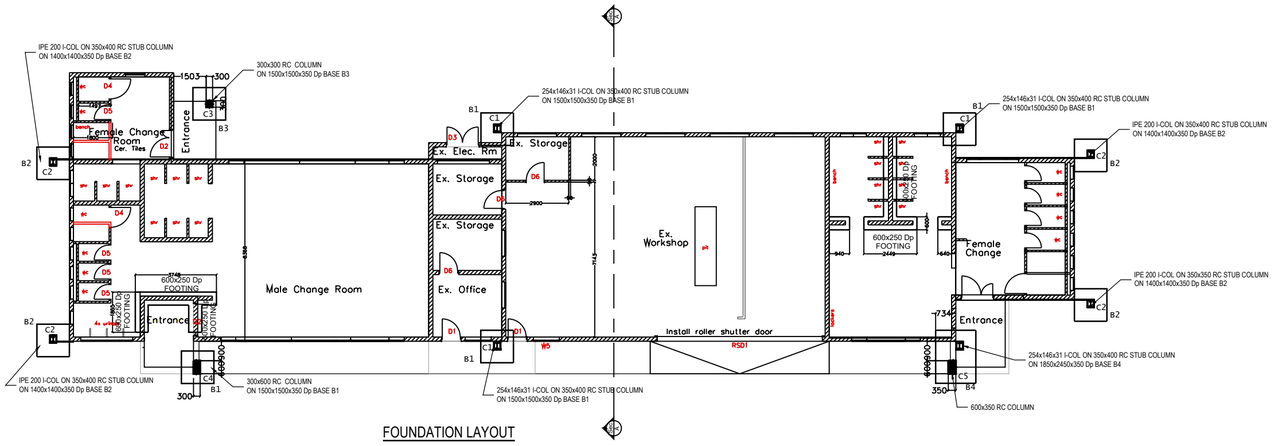
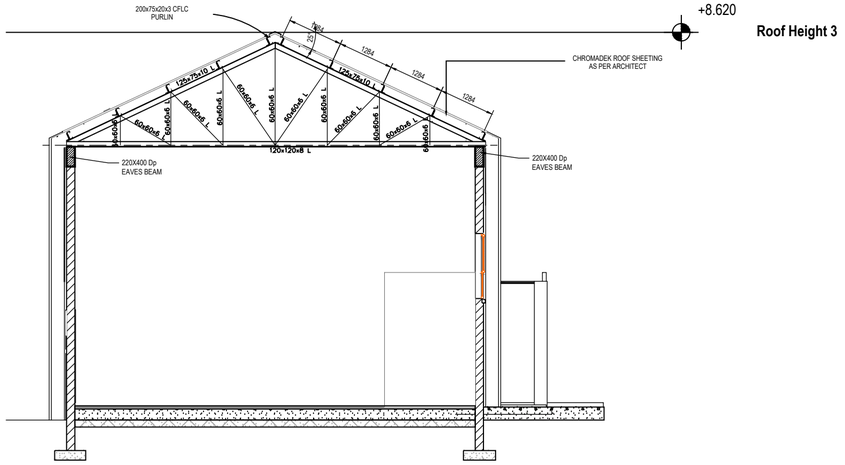


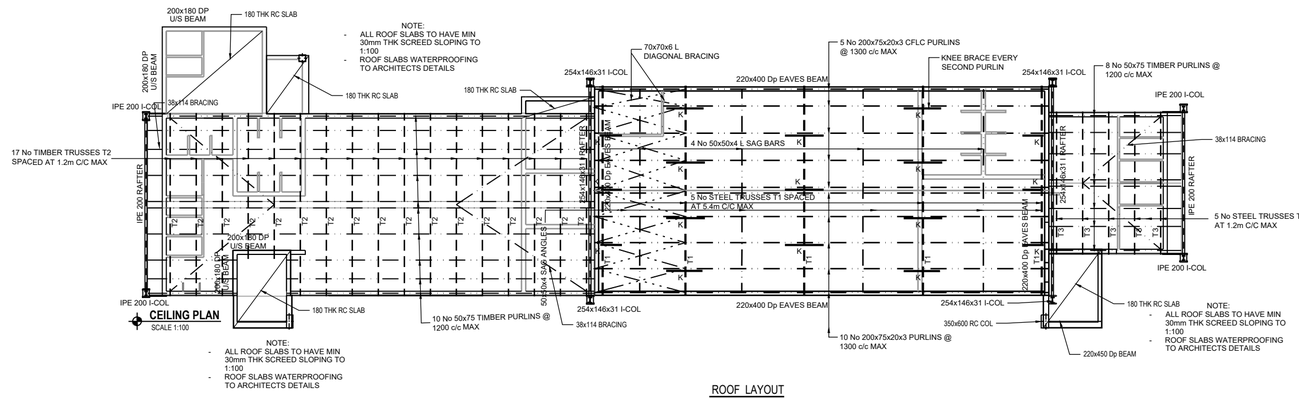
FOUNDATION LAYOUT

SCALE 1:100



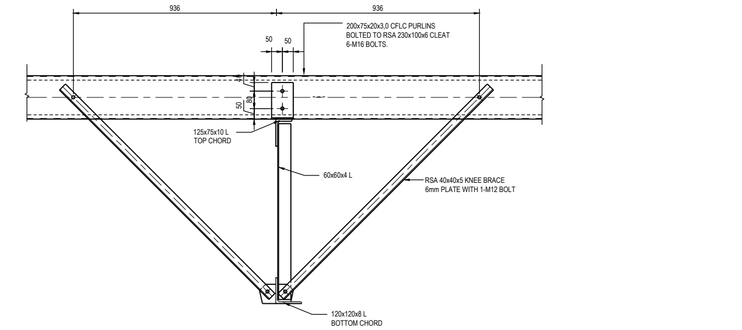
SECTION A-A. TRUSS T1

SCALE 1:50

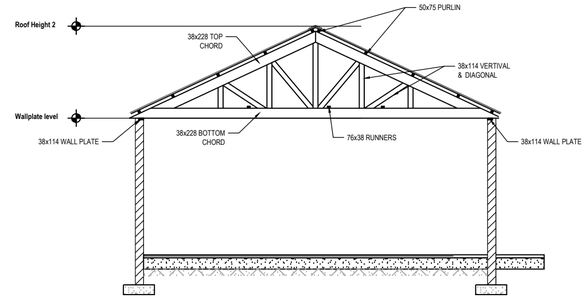


ROOF LAYOUT

SCALE 1:100

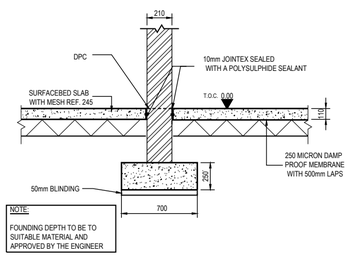


1:10 PURLIN / KNEE BRACE K CONNECTION



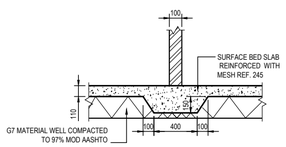
TYPICAL TRUSS T2 &T3 SECTION

SCALE 1:50



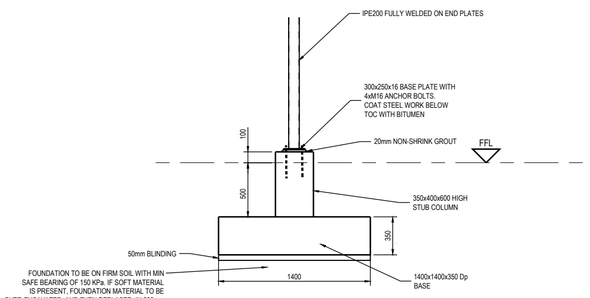
TYPICAL STRIP FOOTING FOR 230 THICK WALLS

SCALE 1:20



TYPICAL STRIP FOOTING FOR 115 THK WALLS

SCALE 1:20



1:20 TYPICAL ELEVATION ON COLUMN BASE

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No.	REFERENCE DRAWINGS

	REVISIONS	DATE	CHKD	APPRV
0		25/05/2023	FD	NN

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CHECKED	F. DUBE (Pr. TechEng)
DRAWN	M. NCUBE
CHECKED	F. DUBE (Pr. TechEng)

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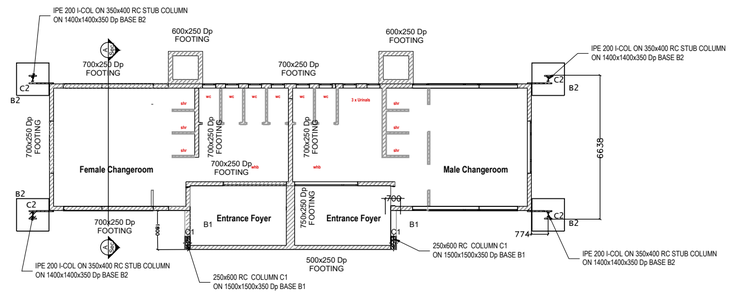
PROJECT NAME
STAFF DEPOT ABLUTIONS PHASE 3

DRAWING TITLE
FOUNDATION AND ROOF LAYOUT & DETAILS

REFERENCE DRAWING	CONTRACT NO.
A3001	8/2/RNM/0444
SHEET: SHEET 1 OF 1	FILE No.

DRAWING No. RCN-J320-01

REVISION 0



FOUNDATION LAYOUT

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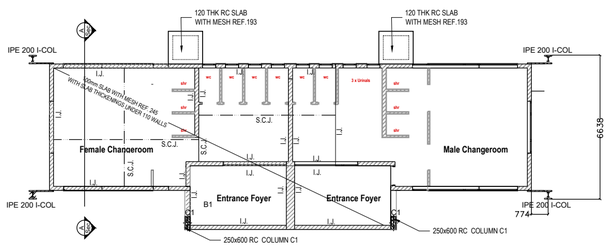
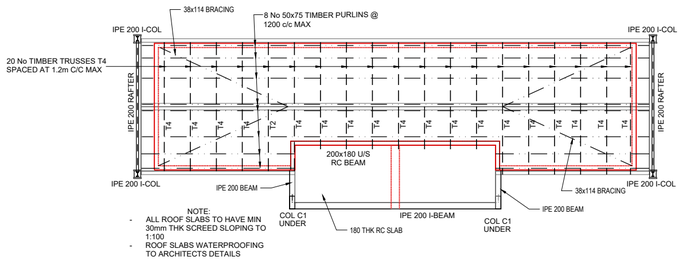


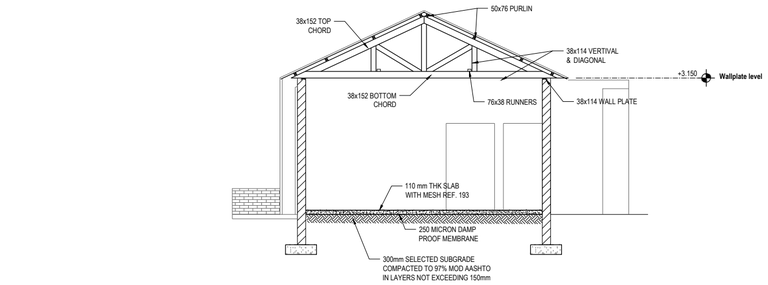
SURFACE BED LAYOUT

SCALE 1:100



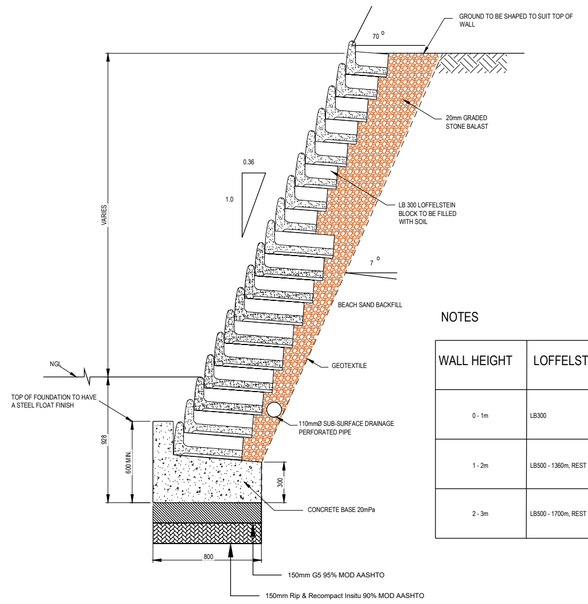
ROOF SLAB LAYOUT

SCALE 1:100



SECTION A-A

SCALE 1:50

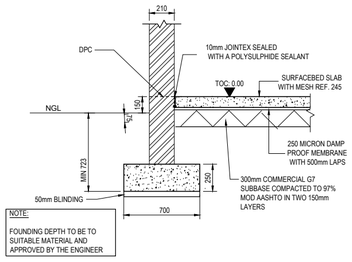


TYPICAL RETAINING WALL DETAIL

SCALE 1: 20

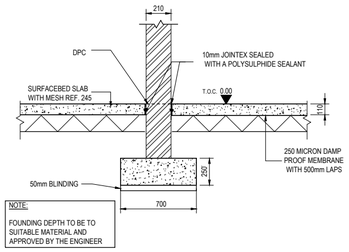
NOTES

WALL HEIGHT	LOFFELSTEIN BLOCK
0 - 1m	LB300
1 - 2m	LB500 - 1360m, REST LB300
2 - 3m	LB500 - 1700m, REST LB300



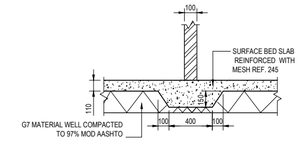
TYPICAL STRIP FOOTING FOR 230 THICK WALLS

SCALE 1:20



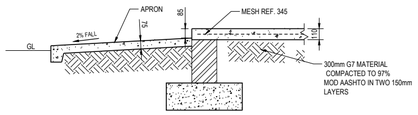
TYPICAL STRIP FOOTING FOR 230 THICK WALLS

SCALE 1:20

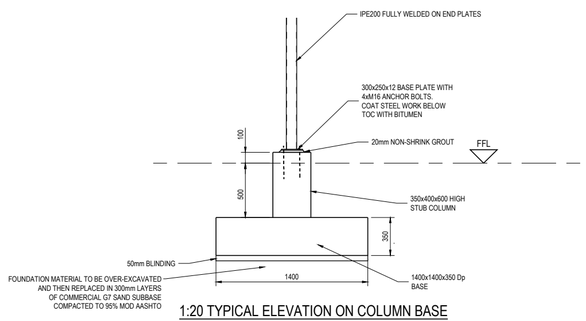


TYPICAL STRIP FOOTING FOR 115 THK WALLS

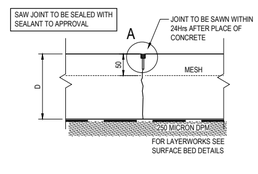
SCALE 1:20



1:20 SLAB EDGE DETAIL AT PATIO

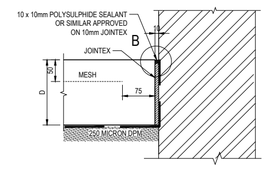


1:20 TYPICAL ELEVATION ON COLUMN BASE



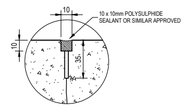
TYPICAL SAW CUT-SURFACEBED JOINT DETAIL (SCJ)

SCALE 1:5



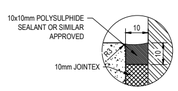
TYPICAL ISOLATION JOINT DETAIL (IJ)

SCALE 1:5



DETAIL A

SCALE 1:2



DETAIL B

SCALE 1:1

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No.	REFERENCE DRAWINGS

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CHECKED	F. DUBE (Pr. TechEng)
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PROJECT NAME

STAFF DEPOT ABLUTIONS PHASE 3

DRAWING TITLE

FOUNDATION AND ROOF LAYOUT & DETAILS

REFERENCE DRAWING	CONTRACT NO.
A1003	8/2/RNM/0444
SHEET	FILE No.
SHEET 1 OF 1	

DRAWING No.
RCN-J320-02

REVISION
0

GENERAL

1. ALL LEVELS ON DRAWINGS INDICATE TOP OF CONCRETE UNLESS INDICATED OTHERWISE.
2. DIMENSIONS OF BEAMS ARE INDICATED AS WIDTH x DEPTH.
3. PROVIDE 50mm BLINDING UNDER ALL COLUMN AND CONCRETE WALL BASES.
4. JOINTS INDICATED IN SURFACE BEDS, SLABS AND ARE ALSO TO BE CONSTRUCTED IN BRICK WALLS, SCREED AND FINISHES.
5. THE CONTRACTOR MUST ENSURE THAT ALL EMBEDDED ITEMS AND PENETRATIONS FOR SERVICES HAVE BEEN PROVIDED FOR AND POSITIONED ACCORDING TO THE LATEST DRAWINGS OF ALL DISCIPLINES BEFORE CASTING CONCRETE.
6. PROVISION OF PROPS UNDER SLABS AND BEAMS: THE CONTRACTOR MUST ENSURE THAT BEAMS AND SLABS HAVE SUFFICIENT STRENGTH AND/OR ARE ADEQUATELY PROPPED TO CARRY CONSTRUCTION LOADS FROM ABOVE. DISCUSS WITH ENGINEER.
7. FOUNDING CONDITIONS AND LEVELS TO BE APPROVED BE APPROVED BY ENGINEER.
8. CONTRACTOR TO CHECK ALL DIMENSIONS AND LEVELS ON SITE AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
9. CEMENT SHALL NOT BE STORED FOR LONGER THAN 6 WEEKS WITHOUT APPROVAL FROM THE ENGINEER. CEMENT WILL BE STORED UNDER COVER AND OFF THE GROUND.
10. ALL WATERPROOFING AND TANKING TO BE CARRIED OUT TO MANUFACTURER'S SPECIFICATIONS AND ARCHITECTS DETAILS.
11. BACKFILL AROUND COLUMNS AND WALLS TO COMMENCE EVENLY.

SURFACE BED

1. SHOULD NO ALTERNATIVE CURING METHOD BE APPROVED BY THE ENGINEER IN WRITING:
   - CONCRETE CAST UNDER ROOF COVER: SAW CUT FLOOR SLABS WITHIN 24 HOURS OF CASTING CURE BY WETTING SIX TIMES PER DAY FOR A MINIMUM OF 7 DAYS.
   - CONCRETE CAST IN OPEN AIR: CURE BY COVERING WITH PLASTIC SHEETING IMMEDIATELY AFTER STRIKING OFF SAW CUT FLOOR SLABS WITHIN 6 HOURS OF CASTING FOR POWER FLOATED SLABS, COVER SLAB WITH PLASTIC SHEETING IMMEDIATELY AFTER STRIKING OFF AND REPLACE PLASTIC SHEETING AFTER POWER FLOATING.
2. UNLESS OTHERWISE SPECIFIED ALL FILL UNDER SURFACE BEDS SHALL BE AN APPROVED MATERIAL COMPACTED TO 95S MOD AASHTO.
3. MINIMUM LAP OF MESH REINFORCEMENT IS 400mm UNLESS OTHERWISE NOTED.
4. REFER TO ARCHITECT DETAILS FOR SURFACE FINISH AND COVERING.
5. PROVIDE A VERTICAL ISOLATION JOINT BETWEEN THE SURFACE BED AND ALL VERTICAL WALLS AND COLUMNS PROTRUDING THROUGH THE SURFACE BED.

CONCRETE WORK

1. ALL CONCRETE WORK TO BE CARRIED OUT IN ACCORDANCE WITH SABS 1200 G (LATEST ADDITION).
2. MINIMUM CONCRETE CUBE STRENGTH AT 28 DAYS:

ELEMENT	28 DAY STRENGTH (MPa)
BLINDING,MASS CONCRETE FOOTINGS	15
RC FOUNDATIONS, SLABS, STAIRS, BEAMS, RC WALLS, SURFACE BEDS	25
COLUMNS	30
SCREED	25
STRUCTURAL TOPPING	AS FOR BASE SLAB

3. MINIMUM COVER TO REINFORCEMENT:

ELEMENT	COVER (mm)
FOUNDATIONS (WITH BLINDING)	50
COLUMNS, BEAMS	40
SLABS AND STAIRS	40

4. ALL REINFORCEMENT IS TO BE APPROVED BY THE ENGINEER BEFORE CONCRETE IS CAST. INSPECTION TO BE UNDERTAKEN WHEN REBAR IS PROPERLY FIXED AND COVER BLOCKS HAVE BEEN POSITIONED AND THE CONTRACTOR QA DOCUMENTATION HAS BEEN SIGNED OFF BY THE CONTRACTOR.
5. NO KICKERS TO BE CAST FOR WALLS OR COLUMNS.
6. THE LOCATION OF CONSTRUCTION JOINTS, SHUTTER AND PROP REMOVAL TIMES ARE TO BE AGREED WITH ENGINEER PRIOR TO CONSTRUCTION.
7. THE CONTRACTOR TO ENSURE THAT THE NECESSARY PROVISION IS MADE IN THE SUPPORTWORK FOR 3 SLABS TO SUPPORT THE WET WEIGHT OF ONE SLAB. e.g FOR THE CASTING OF LEVEL 5 SLAB 100% SUPPORT WORK MUST BE PROVIDED ON LEVEL 4, 70% ON LEVEL 3 AND 30% ON LEVEL 2.
8. CONSTRUCTION JOINTS: NO HORIZONTAL JOINTS WILL BE ALLOWED IN BASES, BEAMS AND SLABS. NO VERTICAL JOINTS IN COLUMNS AND WALLS.
9. IF FOR ANY REASON A COLD JOINT SHOULD FORM DURING CASTING, THE PLANE OF THE JOINT SHOULD BE AT 45 DEGREES TO THE SOFFIT OF THE MEMBER AND THE ENGINEER SHOULD BE NOTIFIED IMMEDIATELY.
10. ARCHITECTS DRAWINGS TO BE FOLLOWED FOR CONCRETE FINISHES, GROOVES, CHAMFERS, ETC.
11. ALL CONCRETE TO BE COMPACTED USING A MECHANICAL VIBRATOR OF A SUITABLE SIZE. DEEP MEMBERS TO BE VIBRATED IN 500mm LAYERS AND WHEN VIBRATING EACH LAYER, THE POKER SHOULD BE PUSHED DOWN INTO THE PRECEDING LAYER. POURS DEEPER THAN 300mm TO BE DOUBLE VIBRATED, THE SECOND VIBRATING BEING DONE JUST BEFORE INITIAL SET.
12. ALL CONCRETE TO BE CONTINUOUSLY CURED USING AN APPROVED METHOD FOR A MINIMUM OF 7 DAYS.
13. SHOULD NO ALTERNATIVE CURING METHOD BE APPROVED BY THE ENGINEER IN WRITING:
    - CONCRETE CAST UNDER ROOF COVER: SAW CUT FLOOR SLABS WITHIN 24 HOURS OF CASTING CURE BY WETTING SIX TIMES PER DAY FOR A MINIMUM OF 7 DAYS.
    - CONCRETE CAST IN OPEN AIR: CURE BY COVERING WITH PLASTIC SHEETING IMMEDIATELY AFTER STRIKING OFF SAW CUT FLOOR SLABS WITHIN 6 HOURS OF CASTING FOR POWER FLOATED SLABS, COVER SLAB WITH PLASTIC SHEETING IMMEDIATELY AFTER STRIKING OFF AND REPLACE PLASTIC SHEETING AFTER POWER FLOATING. COLUMNS TO BE WRAPPED IN PLASTIC.
13. CASTING OF CONCRETE IN EXCESS OF 3.5m IS NOT PERMITTED WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
14. WELDING OF REINFORCEMENT IS NOT ALLOWED UNLESS APPROVED BY ENGINEER IN WRITING.
15. SYMBOLS DENOTING LAYERS OF REINFORCEMENT IN SLABS AND BASES.

CONCRETE WORK

16. MIX DESIGNS TO BE SUBMITTED TO ENGINEER FOR APPROVAL
17. ALL CONTRACTORS QA DOCUMENTATION TO BE FORWARDED TO ENGINEER BEFORE COMMENCING WITH ANY STRUCTURAL WORK.
18. THE TOP OF ALL VERTICAL CONCRETE ELEMENTS THAT SUPPORT HORIZONTAL CONCRETE ELEMENTS TO BE WELL SCABBLED AND CLEANED PRIOR TO CASTING CONCRETE.
19. PULL OUT BAR REINFORCEMENT MAY NOT BE USED UNLESS WRITTEN CONFORMATION IS GIVEN BY THE ENGINEER.
20. ALL SLAB PANELS WITH UPSTAND BEAMS TO REMAIN PROPPED UNTIL THE UPSTANDS HAS BEEN CAST AND IS 14 DAYS OLD. THE TOP OF THE SLAB TO BE WELL SCABBLED AND CLEANED AND A WET TO DRY EPOXY TO BE PROVIDED TO THE ENGINEER'S APPROVAL.

TIMBER ROOFS

1. TIMBER ROOFS TO BE DESIGNED AND SIGNED OFF BY MANUFACTURER. MANUFACTURER'S SIGN OFF LETTER TO BE FORWARDED TO ENGINEER.
2. TRUSSES TO BE FIXED WITH WITH A GALVANISED STEEL STRAP 30x1.6mm WITH A 90 DEGREE BEND EMBEDDED 400mm INTO CONCRETE AND 600mm INTO MASONRY.
3. ALL EXTERNALLY EXPOSED PARTS OF TIMER TRUSSES TO BE PAINTED WITH 2 COATS OF CREOSOTE.
4. WHERE TRUSSES PASS THROUGH WALLS 2 COATS OF CREOSOTE MUST BE APPLIED AND WRAPPED WITH A LAYER OF DPC TO ALLOW MOVEMENT.
5. TRUSSES TO BE SIGNED OF BEFORE ROOF COVERING MAY BE INSTALLED

MASONRY

1. THE FOLLOWING BRICK AND MORTAR STRENGTHS SHALL APPLY: BRICKWORK BELOW GROUND LEVEL NFX 14MPa AVERAGE.

	BRICK STRENGTH	MORTAR CLASS (SABS 0164)
RETAINING WALLS & BWK BELOW GROUND LOADBEARING WALLS	14 MPa	CLASS I
PANEL WALLS IN RC	7 MPa	CLASS II

2. GALVANISED WALL TIES TO SANS 28 ARE TO BE PROVIDED AS FOLLOWS(NO SINGLE STRAND TYPE WALL TIES WILL BE PERMITTED):

WALL TYPE	NUMBER OF TIES
GROUTED CAVITY WALL	4 PER m2
CAVITY WALL	3 PER m2
WITHIN 230 mm EITHER SIDE OF VERTICAL CONTROL JOINT IN THE OUTER SKIN OF A CAVITY WALL	VERTICAL ROW OF TIES AT 250 mm CENTRES (EVERY THIRD COURSE)

3. GALVANISED BRICKFORCE IS TO BE PROVIDED AS FOLLOWS: ALL BRICKFORCE TO BE SABS APPROVED.

WALL TYPE	BRICKFORCE QUANTITY
BRICK FOUNDATION WALLS	EVERY COURSE
BRICK WALLS GENERALLY	EVERY FOURTH COURSE
BLOCKWORK WALLS (THROUGHOUT)	EVERY SECOND COURSE
WALLS WITH OPENINGS	FIRST FIVE COURSES ABOVE AND WHERE APPLICABLE BELOW OPENINGS, CONTINUING 600 mm PAST OPENINGS.
CONTROL JOINTS	CONTINUOUS THROUGH CONTROL JOINT

MINIMUM DIAMETER OF BRICKFORCE: 2.8mm
YIELD STRENGTH: 485MPa
LAP LENGTH: 400mm

4. BRICK PANEL WALLS TO BE ANCHORED TO RC COLUMNS WITH GALVANISED HOOP IRON ANCHORS (50 mm2 CROSS SECTION), FIXED TWICE TO THE COLUMN EVERY 4TH COURSE AND BUILT 400 mm INTO BRICKWORK. PROVIDE 10 mm JOINTEX BETWEEN BRICKWORK AND COLUMN.
5. PROVIDE A 10 mm SOFT JOINT (JOINTEX) BETWEEN THE TOP OF ALL NON LOADBEARING BRICK PANEL WALLS AND THE SOFFIT OF CONCRETE STRUCTURE OVER.
6. PROVIDE A SKIMMED MORTAR FINISH AND TWO LAYERS OF DPC AS A SLIP JOINT TO THE TOPS OF ALL LOADBEARING BRICK WALLS PRIOR TO CASTING OF SLAB.
7. WALLS BUILT ON SUSPENDED RC SLABS/BEAMS: ALL TEMPORARY PROPS TO HAVE BEEN REMOVED PRIOR TO COMMENCEMENT OF BRICKWORK. PROVIDE DPC LAYER AS BOND BREAKER BETWEEN SLAB AND FIRST COURSE OF BRICKWORK. PROVIDE GALVANISED BRICKFORCE TO THE BOTTOM THREE COURSES AND EVERY FOURTH COURSE THEREAFTER. PRE LOAD THE FLOOR SLAB WITH BRICKS PRIOR TO BUILDING THE WALL.
8. TIMBER MEMBERS BUILT INTO BRICKWORK TO BE GIVEN TWO COATS OF DURAM 195 OR SIMILAR AND WRAPPED IN PLASTIC.
9. REINFORCED MASONRY CONSTRUCTION: CAVITIES IN REINFORCED MASONRY WALLS TO BE GROUTED UP WITH 25 MPa/10mm CONCRETE IN MAXIMUM LIFTS OF 450 mm AS BRICK LAYING PROCEEDS. CAVITIES TO BE CLEAR OF MORTAR DROPPINGS AND PROVIDED WITH WALL TIES IN ACCORDANCE WITH NOTE ABOVE (SEE "WALL TIES") MINIMUM GROUT COVER TO REINFORCEMENT = 20 mm.
10. ALL WINDOW AND DOOR OPENINGS IN MASONRY TO BE FITTED WITH CHICKEN MESH PRIOR TO PLASTERING AS SHOWN IN FIGURE 1

FOUNDATIONS
THE MINIMUM DEPTH OF FOUNDATION SHALL NOT BE LESS THAN 250mm DEEP BELOW UNFINISHED GROUND LEVEL.

PROPRIETARY ANCHORS
ALL EXPANSION AND CHEMICAL TYPE ANCHORS FOR FIXING INTO CONCRETE AND MASONRY TO BE INSTALLED STRICTLY TO MANUFACTURERS SPECIFICATION.

STEELWORK

1. READ THIS DRAWING IN CONJUNCTION WITH THE ARCHITECT'S DRAWINGS.
2. WORKSHOP DRAWINGS TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
3. ALL STRUCTURAL STEELWORK SHALL BE IN ACCORDANCE WITH SABS 1200H AND SANS 2001 - CS1 WHERE APPLICABLE.
4. HOT FORMED HOLLOW SECTIONS SHALL BE GRADE S355JR.
5. HOT ROLLED SECTIONS SHALL BE GRADE S355JR.
6. ALL WELDS ARE TO BE DESIGNED TO GIVE FULL MEMBER STRENGTH.
7. ALL BOLTED CONNECTIONS ARE TO BE DESIGNED TO SABS 0162-1984.
8. ALL BOLTS TO BE GRADE 8,8 U.N.O. BOLTS TO BE ELECTRO GALVANISED.
9. ALL HOLDING DOWN BOLTS TO BE MINIMUM M16.
10. COLD FORMED STEEL SECTIONS TO HAVE A MINIMUM YIELD STRENGTH OF 210 MPa.
11. PROVIDE 60MPa NON-SHRINK GROUT BELOW ALL BASE PLATES.
12. ALL FIXINGS TO ROOF STEELWORK TO BE APPROVED BY THE ENGINEER.
13. ALL TRUSS MEMBERS TO BE WELDED ALL ROUND.
14. CONNECTIONS TO PURLIN FOR MECHANICAL AND ELECTRICAL SUPPORTS WILL ONLY BE MADE BY BOLTING TO THE WEB OF THE PURLIN MAXIMUM LOAD 25kg.
15. ALL MECHANICAL AND ELECTRICAL SUPPORTS ON TRUSSES TO BE AT NODE POINTS.
16. SURFACE PREPARATION OF STRUCTURAL STEELWORK (SANS 1200HC)
    - WIRE BRUSH ALL NEW STEELWORK TO A MINIMUM ST 2.0 IN ACCORDANCE WITH SWEDISH SIS 055900 -1967.
    - THE TREATMENT MUST REMOVE LOOSE MILL SCALE, RUST AND FOREIGN MATTER
17. CORROSION PROTECTION SPECIFICATION:
    - ALL STEELWORK TO BE HOT DIPPED GALVANIZED TO SABS 763.
    - DEGREASE WITH GALVANIZED IRON CLEANER AND 3M SCOTCH BRITE PADS AND RINSE WITH FRESH WATER PRIOR TO APPLICATION OF PRIMER COAT.

OR

- PRIMER: STEELWORK TO BE PAINTED ONE COAT OF ZINC PHOSPHATE ALKYD PRIMER, (35 microns DTF)
- INTERMEDIATE COAT: STEELWORK TO BE PAINTED WITH ONE COAT OF UNIVERSAL UNDERCOAT, (30 microns DTF)
- TOP COAT: STEELWORK TO BE PAINTED WITH TWO FINAL COATS ENAMEL (ALKALYD ENAMEL) (30 microns DTF EACH)

ALL PAINTWORK DAMAGED DURING ERECTION AND TRANSPORTATION TO BE TOUCHED UP TO ABOVE SPEC. FINAL COLOUR TO ARCHITECTURAL SPEC.

ISSUED FOR TENDER

SCALE
A0 / AS SHOWN

No.	REFERENCE DRAWINGS

	REVISIONS	DATE	CHKD	APPRV
1		25/05/2023	FD	NN

ONLY REVISIONS MARKED △ THUS ARE VALID

DESIGNED	M. NCUBE
CHECKED	F. DUBE (Pr. TechEng)
DRAWN	M. NCUBE
CHECKED	F. DUBE (Pr. TechEng)

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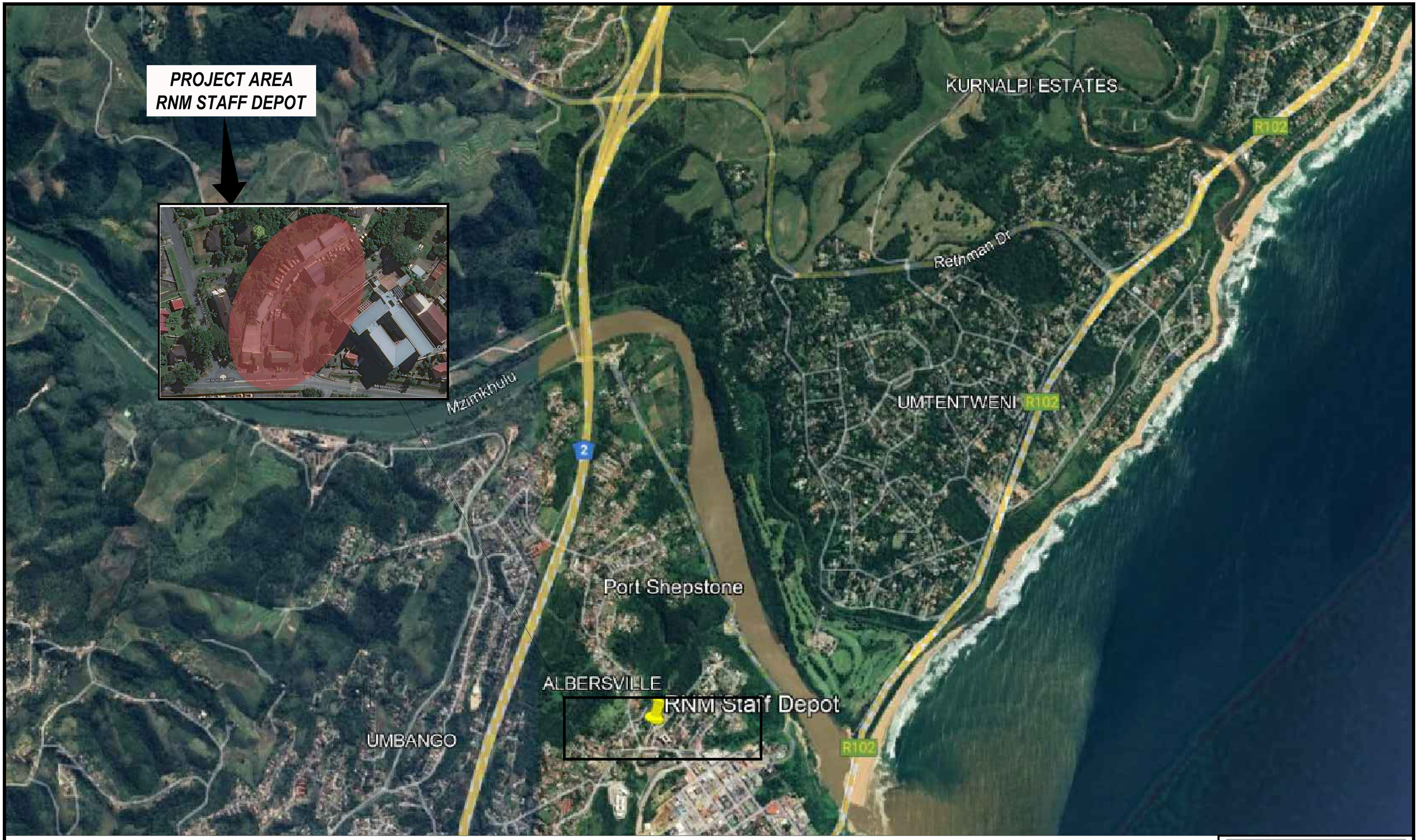
PROJECT NAME
STAFF DEPOT ABLUTIONS PHASE 3

DRAWING TITLE
GENERAL NOTES

REFERENCE DRAWING	CONTRACT NO.
A3001	8/2/RNM/0444
SHEET: SHEET 1 OF 1	FILE No.

DRAWING No. RCN-J320-03
REVISION 0



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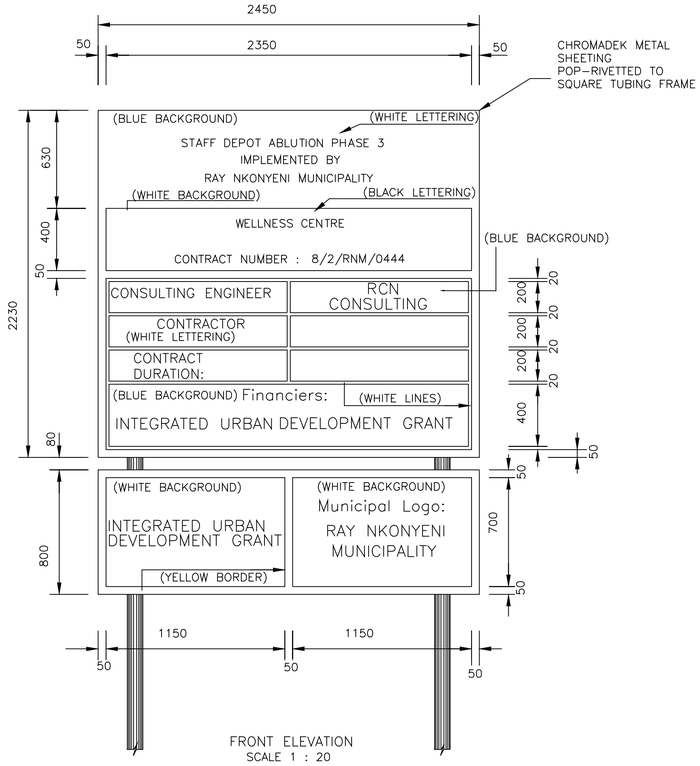
PROJECT NAME
STAFF DEPOT ABLUTION PHASE 3

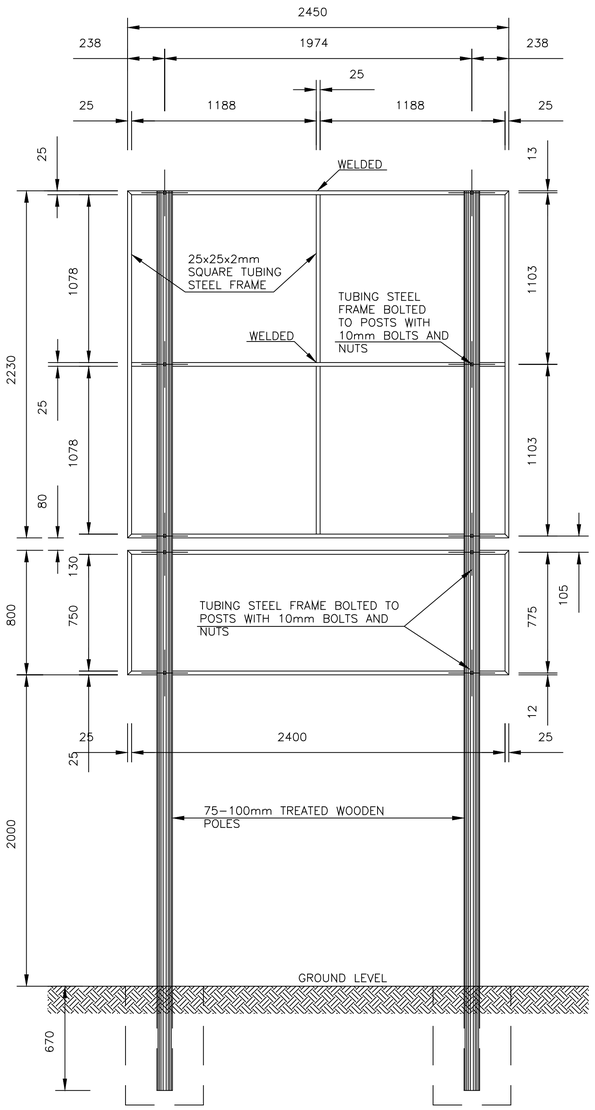
DRAWING TITLE
LOCALITY PLAN

REFERENCE DRAWING	CONTRACT NO.
LOCALITY PLAN	8/2/RNM/0444
SHEET: SHEET 1 OF 1	FILE No.

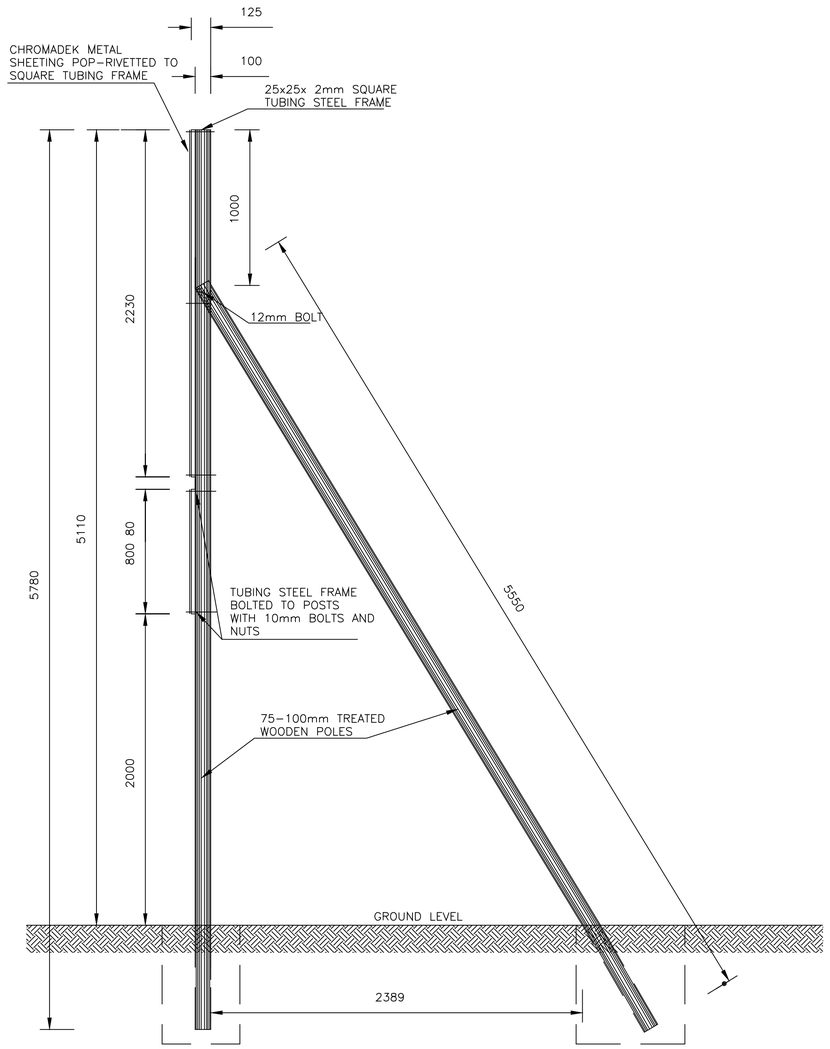
DRAWING No.: RCN-J320-04
REVISION: 0



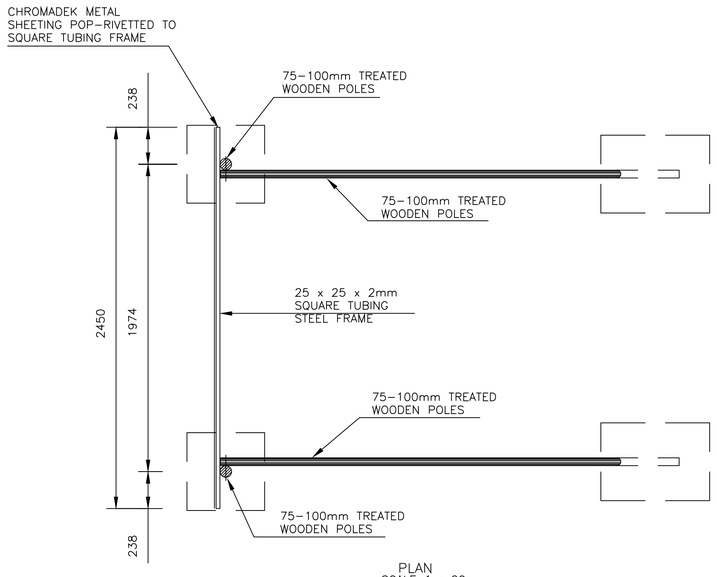
FRONT ELEVATION
SCALE 1 : 20



BACK ELEVATION
SCALE 1 : 20



SIDE ELEVATION
SCALE 1 : 20



PLAN
SCALE 1 : 20

NOTES

1) CHROMADEK METAL SHEETING (RUST RESISTANT METAL)

2) SPRAY PAINTED TO CUSTOMER'S SPECIFICATIONS WITH AUTOMOTIVE QUALITY DUCO PAINT WORDING

3) HIGH PERFORMANCE 5 TO 7 YEAR OUTDOOR QUALITY VINYL LOGOS UV RESISTANT FULL COLOUR THERMAL PRINT ONTO A HIGH PERFORMANCE OUTDOOR GRADE VINYL SUBSTRACTE OR HIGH PERFORMANCE 5 TO 7 YEAR OUTDOOR QUALITY

4) VINYL APPLIED DIRECTLY TO THE PREPARED CHROMADEK (IF LOGO CONSISTS OF FLAT CLOLOURS)

5) LOCATION
THE BOARD MUST BE ERECTED AT THE ENTRACNCE TO THE CONSTRUCTION SITE

6) ERECTION DURATION
THE BOARD MUST REMAIN UNTIL THE END OF THE DEFFECTS LIABILITY PERIOD

0 50 100mm
ORIGINAL DRAWING

ISSUED FOR TENDER

SCALE
A0 / AS SHOWN

No.	REFERENCE DRAWINGS

	REVISIONS	DATE	CHKD	APPRV
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PROJECT NAME
STAFF DEPOT ABLUTION PHASE 3

DRAWING TITLE
PROJECT NAMEBOARD

REFERENCE DRAWING	CONTRACT NO.
A3001	8/2/RNM/0444
SHEET: SHEET 1 OF 1	FILE No.

DRAWING No. RCN-J320-05
REVISION 0