# 1308401C - TAMWORTH MENTAL HEALTH UNIT
# DEAN STREET, TAMWORTH NSW
## CIVIL & STORMWATER

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LOCALITY PLAN
NOT TO SCALE

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MEINHARDT BONACCI
Level 4, 66 Clarence Street
Sydney NSW 2000
Australia
T: +61 2 9699 3088
F: +61 2 9319 7518
info@meinhardt-bonacci.com
www.meinhardt-bonacci.com
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Project Name: TAMWORTH MENTAL HEALTH UNIT DEAN STREET, TAMWORTH NSW

Drawing Title: DRAWING REGISTER AND CONSTRUCTION NOTES

DRAFT TENDER

| | | | |
|---|---|---|---|
| Designed | AM | Approved | YC |
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# GENERAL NOTES

G1 THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS OR SKETCHES AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE SUPERINTENDENT BEFORE PROCEEDING WITH WORK.

G2 MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE SPECIFICATION, CURRENT SAA CODES, BUILDING REGULATIONS AND THE REQUIREMENTS OF ANY OTHER RELEVANT STATUTORY AUTHORITIES.

G3 THESE DRAWINGS MUST NOT BE SCALED. ALL DIMENSIONS ARE IN METERS. ALL SET OUT DIMENSIONS AND LEVELS, INCLUDING THOSE SHOWN ON THESE DRAWINGS SHALL BE IN ACCORDANCE WITH THE ARCHITECT'S DRAWINGS AND VERIFIED ON SITE.

G4 ALL SETOUT AND DIMENSIONS OF THE STRUCTURE INCLUDING KERBS AND RETAINING WALLS, AND BULK EARTHWORKS MUST BE TAKEN FROM THE ARCHITECT'S DRAWINGS. SETOUT OF THE STORMWATER PITS BY OTHERS. CONTRACTOR TO CONFIRM SETOUT OF SERVICE TRENCHING INCLUDING SUBSOIL ON SITE.

G5 THE CONTRACTOR SHALL COMPLY WITH ALL REGULATIONS OF AUTHORITIES HAVING JURISDICTION OVER THE WORKS. REFER TO GEOTECHNICAL REPORT ON PRELIMINARY GEOTECHNICAL INVESTIGATION BY REGIONAL GEOTECHNICAL SOLUTIONS (REF: RGS32576.1) DATED 31st MARCH 2021.

G6 ALL DIMENSIONS AND REDUCED LEVELS MUST BE VERIFIED ON SITE BEFORE THE COMMENCEMENT OF ANY WORK.

G7 THE APPROVAL OF A SUBSTITUTION SHALL BE SOUGHT FROM THE SUPERINTENDENT BUT IS NOT AN AUTHORISATION OF A COST VARIATION. THE SUPERINTENDENT MUST APPROVE ANY COST VARIATION INVOLVED BEFORE ANY WORK STARTS.

G8 ALL LEVELS SHOWN ARE TO THE AUSTRALIAN HEIGHT DATUM.

G9 SERVICE INFORMATION SHOWN IS APPROXIMATE ONLY. PRIOR TO COMMENCEMENT OF ANY WORKS, THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND SERVICES AND COMPLY WITH ALL REQUIREMENTS OF THOSE AUTHORITIES.

G10 EXISTING SURFACE CONTOURS, WHERE SHOWN, ARE INTERPOLATED AND MAY NOT BE ACCURATE. GEOTECHNICAL REPORT IDENTIFIES A MAX OF 0.3m OF TOPSOIL ON THE SITE, WHICH HAS BEEN INCLUDED IN THE PROPOSED STRIPPING LAYOUT, HOWEVER, CIVIL DOES IT'S BEST TO REPRESENT THE EXISTING CONDITIONS BUT CANNOT CONFIRM THE DEPTH OF TOPSOIL, FILL OR UNSUITABLE FILL MATERIALS ON-SITE APART FROM WHAT IS REFERENCED IN THE REPORT. THE CONTRACTOR SHALL REVIEW ALL GEOTECHNICAL REPORTS, VISIT SITE AND MAKE THEIR JUDGEMENTS DURING TENDERING.

G11 UNLESS NOTED OTHERWISE, ALL VEGETATION SHALL BE STRIPPED TO A MINIMUM DEPTH OF 150mm UNDER ALL PROPOSED PAVEMENT AND BUILDING AREAS.

G12 MAKE SMOOTH CONNECTION WITH ALL EXISTING WORKS.

# SITEWORKS NOTES

S1 PRIOR TO THE PLACEMENT OF ANY PAVEMENTS, BUILDINGS OR DRAINS THE EXPOSED SUBGRADE SHALL BE COMPACTED TO A MINIMUM OF 98% STANDARD COMPACTION IN ACCORDANCE WITH TEST 'E1.1' OF A.S. 1289 FOR THE TOP 300mm. ANY SOFT SPOTS SHALL BE REMOVED AND REPLACED WITH GRANULAR FILL TO THE ENGINEERS APPROVAL AND COMPACTED IN ACCORDANCE WITH THE COMPACTION REQUIREMENTS SET OUT BELOW. ON HIGHLY REACTIVE CLAY AREAS SITE EXCAVATED MATERIAL MAY BE USED WITH THE PRIOR AUTHORISATION OF THE ENGINEER.

S2 ALL FILL AND PAVEMENT MATERIALS SHALL BE COMPACTED IN ACCORDANCE WITH GEOTECHNICAL REPORT BY REGIONAL GEOTECHNICAL SOLUTIONS (REF: RGS32576.1) DATED 31ST MARCH 2021.

MOISTURE CONTENT TO BE MAINTAINED AT +/- 2% OMC. MINIMUM COMPACTION REQUIREMENTS ARE DETAILED BELOW FOR (ALL REQUIREMENTS ARE TO VERIFIED BY A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER):

- LANDSCAPED AREAS 98% STD.
- FILL UNDER ANY FOOTINGS AND FLOOR SLABS FOR ANY STRUCTURE TO SUBGRADE LEVEL;
  - FINE CRUSHED ROCK 98% STD.
  - SELECTED FILL WITHOUT CONSPICUOUS CLAY CONTENT 98% STD.
- BUILDING BASECOURSE 98% MOD
- FILL UNDER ROAD PAVEMENTS;
  - TO WITHIN 500mm OF FINISHED SUBGRADE LEVEL 98% STD.
  - UP TO FINISHED SUBGRADE LEVEL 98% STD.
- ROAD PAVEMENT MATERIALS;
  - SUB BASE 98% MOD.
  - BASE COURSE 98% MOD.

THE MAXIMUM COMPACTION IS TO BE NO GREAT THAN 4% ON TOP OF THE ABOVE MENTION VALUES.

S3 GRADE EVENLY BETWEEN FINISHED SURFACE SPOT LEVELS. FINISHED SURFACE CONTOURS ARE SHOWN FOR CLARITY. WHERE FINISHED SURFACE LEVELS ARE NOT SHOWN, THE SURFACE SHALL BE GRADED SMOOTHLY SO THAT IT WILL DRAIN AND MATCH ADJACENT SURFACES OR STRUCTURES.

S4 ALL DIMENSIONS GIVEN ARE TO FACE OF KERB, CENTER OF PIPE OR EXTERIOR FACE OF BUILDING UNLESS NOTED OTHERWISE.

S5 ANY STRUCTURES, PAVEMENTS OR SURFACES DAMAGED, DIRTIED OR MADE UNSERVICABLE DUE TO CONSTRUCTION WORK SHALL BE REINSTATED TO THE SATISFACTION OF THE ENGINEER.

S6 ANY FILL REQUIRED SHALL BE APPROVED BY THE ENGINEER / GEOTECHNICAL CONSULTANT

S7 CONTRACTOR IS TO ENSURE THAT ALL EXCAVATIONS ARE MAINTAINED IN A DRY CONDITION WITH NO WATER ALLOWED TO REMAIN IN THE EXCAVATIONS.

S8 ALL FINISHES AND COLOURS TO BE IN ACCORDANCE WITH ARCHITECTURAL SPECIFICATIONS.

S9 REFER TO STRUCTURAL DRAWINGS FOR CONCRETE, REINFORCEMENT AND RETAINING WALL DETAILS.

S10 GENERALLY FOR TRENCHING WORKS THE CONTRACTOR MUST:
A) COMPLY WITH THE GENERAL PROVISIONS OF PART 3.1 "MANAGING RISKS TO HEALTH AND SAFETY" OF NSW WORK AND HEALTH AND SAFETY REGULATION 2011

B) COMPLY PART 6.3 DIVISION 3 "EXCAVATION WORK" OF NSW WORK HEALTH AND SAFETY REGULATION NSW 2011

S11 PRIOR TO THE EXCAVATION OF ANY TRENCH DEEPER THAN 1.5 METRES THE CONTRACTOR MUST:
A) NOTIFY THE OCCUPATIONAL HEALTH AND SAFETY AUTHORITY ON THE APPROPRIATE FORM.

# STORMWATER DRAINAGE NOTES

SW1 UNLESS NOTED OTHERWISE BY HYDRAULIC ENGINEERS DRAWINGS, ALL DOWNPIPES & GRATED INLETS SHALL BE CONNECTED TO PITS OR MAIN STORMWATER DRAINS WITH 225 DIA. UPVC PIPES LAID AT A MINIMUM GRADE OF 1 IN 100. FOR SYPHONIC ROOF DRAINAGE SYSTEMS ALL DOWNPIPES CONNECTION DRAIN SIZES TO BE CONNECTED INTO MAIN STORMWATER DRAINS SHALL BE IN ACCORDANCE WITH HYDRAULIC ENGINEERS DRAWINGS.

SW2 ALL MAIN STORMWATER DRAINS SHALL BE CONSTRUCTED USING MATERIALS AS SPECIFIED ON THE DRAWINGS IN ACCORDANCE WITH THE APPROPRIATE A.S. IF NOT SPECIFIED THEN CLASS 2 RRJ RCP SHALL BE USED FOR DIAMETERS > 225mm. SEWER CLASS SEH UPVC IN ACCORDANCE WITH AS1260 SHALL BE USED FOR Ø225mm OR SMALLER.

SW3 ALL PIPEWORK TO BE INSTALLED IN ACCORDANCE WITH AS3725 FOR RCP AND AS2032 FOR PVC. ALL BEDDING TO BE TYPE H2 UNLESS NOTED OTHERWISE.

SW4 FOR ALL PITS > 1.2m DEEP, STEP IRONS SHALL BE INSTALLED.

SW5 PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY BONACCI GROUP.

SW6 ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.

SW7 WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.

SW8 GRATES AND COVERS SHALL CONFORM WITH AS 3996 AND AS 1428.1 FOR ACCESS REQUIREMENTS.

SW9 CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES ARE NOT TO BE REDUCED WITHOUT APPROVAL.

SW10 AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.

SW11 ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED. DURING THIS PROCESS ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT/ENGINEER FOR FURTHER DIRECTIONS.

# KERBING NOTES

K1 ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 32 MPa U.N.O.

K2 ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON 75mm GRANULAR BASECOURSE COMPACTED TO A MINIMUM 98% MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS1289 5.2.1.

K3 EXPANSION JOINTS (EJ) TO BE FORMED FROM 10mm COMPRESSIBLE CORK FILLER BOARD FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS, ON TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX 12m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLAB.

K4 WEAKENED PLANE JOINTS TO BE MIN 3mm WIDE AND LOCATED AT 3m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLAB.

K5 BROOMED FINISH TO ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.

K6 IN THE REPLACEMENT OF KERBS:-
- EXISTING ROAD PAVEMENT IS TO BE SAWCUT 900mm U.N.O. FROM THE LIP OF GUTTER. UPON COMPLETION OF THE NEW KERB AND GUTTER, NEW BASECOURSE AND SURFACE TO BE LAID 600mm WIDE U.N.O.
- EXISTING KERBS ARE TO BE COMPLETELY REMOVED WHERE NEW KERBS ARE SHOWN.

# JOINTING NOTES

## PEDESTRIAN FOOTPATH JOINTS

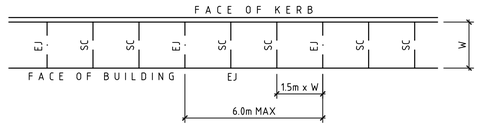
J1 EXPANSION JOINTS (EJ) ARE TO BE LOCATED WHERE POSSIBLE AT TANGENT POINTS OF CURVES AND ELSEWHERE AT 6m CENTRES.

J2 SAWCUT JOINTS (SC) ARE TO BE LOCATED AT A MAX 1.5m x WIDTH OF PAVEMENT. THE TIMING OF THE SAWCUT IS TO BE CONFIRMED BY THE CONTRACTOR ON SITE. SITE CONDITIONS WILL DETERMINE HOW MANY HOURS AFTER THE CONCRETE POUR BEFORE THE SAW CUTS ARE COMMENCED.

J3 WHERE POSSIBLE JOINTS SHOULD BE LOCATED TO MATCH KERBING AND / OR ADJACENT PAVEMENT JOINTS.

J4 PROVIDE 10mm WIDE FULL DEPTH EXPANSION JOINTS (EJ) BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVERS

J5 ALL PEDESTRIAN FOOTPATH JOINTINGS AS FOLLOWS (U.N.O.).




## VEHICULAR PAVEMENT JOINTS

J6 ALL VEHICULAR PAVEMENTS TO BE JOINTED AS SHOWN ON DRAWINGS.

J7 LONGITUDINAL WARPING JOINTS (LWJ) SHOULD GENERALLY BE LOCATED AT A MAXIMUM OF 3m TO 4.5m MAX CENTERS. ALL LWJ's SHOULD BE TIED UP TO A MAXIMUM TOTAL WIDTH OF 30m.

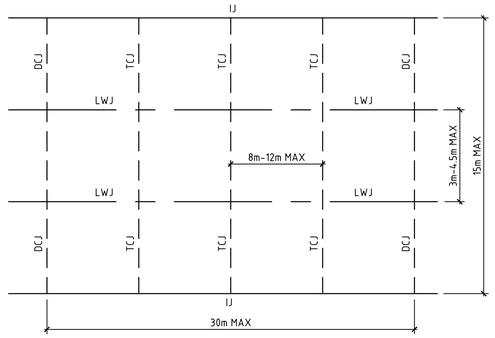
J8 TRANSVERSE CONTRACTION JOINTS (TCJ) SHOULD GENERALLY BE LOCATED AT A MAXIMUM OF 8m TO 12m MAX CENTERS. TCJ's CAN BE SPACED AT SUITABLE INTERVALS UP TO A RECOMMENDED MAXIMUM LENGTH OF 15m.

J9 TRANSVERSE DOWELLED CONSTRUCTION JOINTS (DCJ) TO BE PROVIDED FOR PLANNED INTERRUPTIONS SUCH AS AT THE END OF EACH DAY'S OPERATIONS (POUR BREAK), AT BLOCK OUTS FOR BRIDGES AND INTERSECTIONS OR FOR UNEXPECTED DELAYS WHEN THE SUSPENSION OF OPERATIONS IS LIKELY TO CREATE A JOINT.

J10 ISOLATION JOINTS WITH SUB-GRADE BEAM (IJ) TO BE PROVIDED AT INTERSECTIONS OR AT THE JUNCTION OF A POUR BREAK.

J11 ALL VEHICULAR PAVEMENTS TO BE JOINTED IN ACCORDANCE WITH AUSTROADS AGPT02-12 GUIDE TO PAVEMENT TECHNOLOGY PART 2 STRUCTURAL PAVEMENT DESIGN AND SUPPLEMENT AP-T36-06 PAVEMENT DESIGN FOR LIGHT TRAFFIC

J12 VEHICULAR PAVEMENT JOINTING AS FOLLOWS (U.N.O.)




NSW GOVERNMENT Health Infrastructure

***DETERMINED – APPROVAL***

**REF Approval No:** 09/2023

**Date: 29/3/2023**

**Signed by:**

ALL EXISTING PROPERTY SERVICES' LOCATIONS AND DEPTHS ARE APPROXIMATE AND MUST BE VERIFIED ON SITE.
THE CONTRACTOR SHOULD SUPPLY PRECISE LOCATIONS AND DEPTHS TO THE ENGINEER FOR REVIEW PRIOR TO ANY WORKS THAT MAY AFFECT THESE SERVICES.

WARNING
NO DRAINAGE WORKS SHALL COMMENCE UNTIL THE CONTRACTOR CONFIRMS THE I.L. OF ALL EXISTING DRAINS, AND CONFIRMS IN WRITING WITH THE ENGINEERING SUPERVISOR.

**WARNING**
**BEWARE OF UNDERGROUND SERVICES**
THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE.

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MEINHARDT BONACCI
Level 4, 66 Clarence Street
Sydney NSW 2000
Australia
T: +61 2 9699 3088
F: +61 2 9319 7518
info@meinhardt-bonacci.com
www.meinhardt-bonacci.com

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Project Name: TAMWORTH MENTAL HEALTH UNIT DEAN STREET, TAMWORTH NSW

Drawing Title: CONSTRUCTION NOTES

DRAFT TENDER

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|---|---|---|---|
| Designed | AM | Approved | YC |
| Drawn | DH | Date | FEB 2023 |
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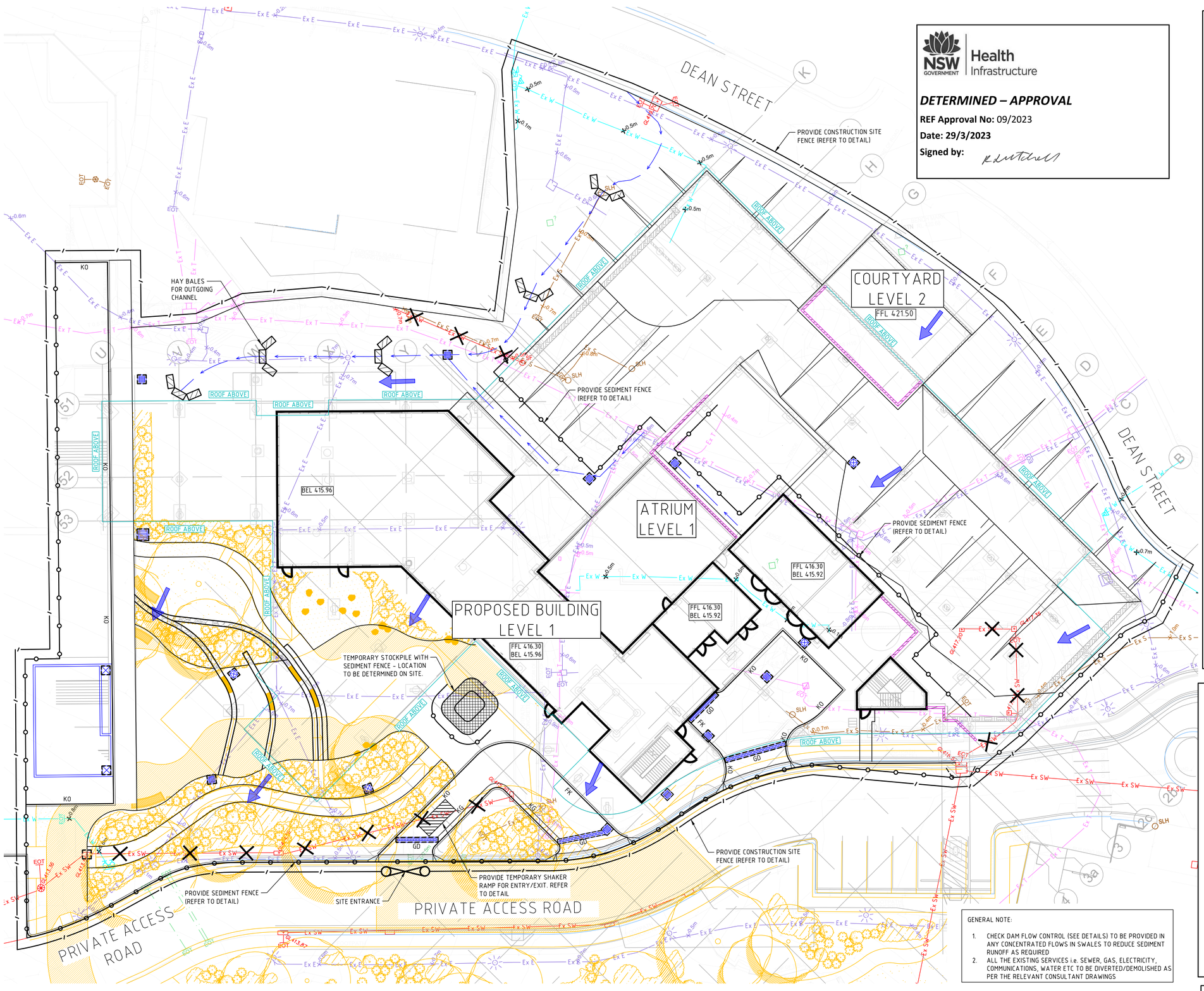


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## SOIL AND WATER MANAGEMENT NOTES

1. IT HAS BEEN ASSUMED THAT HOARDINGS/SILT FENCING WILL BE PROVIDED TO THE SITE BOUNDARY SUFFICIENT TO PREVENT SEDIMENT RUNOFF FROM LEAVING SITE (EXCEPT IN THE CASE OF ENTRY/EXIT LOCATIONS WHERE TEMPORARY CONSTRUCTION ENTRY/EXIT SEDIMENT TRAP ARE PROVIDED). IF THIS IS NOT THE CASE, PROVIDE SEDIMENT FENCE TO STANDARD DETAIL AS REQUIRED TO PREVENT SEDIMENT FROM LEAVING SITE, DIRECT RUNOFF TO SEDIMENT BASIN.
2. ALL SEDIMENT CONTROL MEASURES TO BE INSTALLED IN ACCORDANCE WITH LANDCOM MANAGING URBAN STORMWATER "BLUE BOOK".

## SEDIMENT CONTROL CONDITIONS

1. SEDIMENT FENCES WILL BE INSTALLED AS SHOWN AND ELSEWHERE AT THE DISCRETION OF THE SITE MANAGER TO CONTAIN COARSER SEDIMENT FRACTIONS INCLUDING AGGREGATED FINES) AS NEAR AS POSSIBLE TO THEIR SOURCE.
2. SEDIMENT REMOVED FROM ANY TRAPPING DEVICE WILL BE RELOCATED WHERE FURTHER POLLUTION TO DOWNSLOPE LANDS & WATERWAYS CANNOT OCCUR.
3. STOCKPILES WILL BE PLACED WHERE SHOWN ON DRAWING OR ELSEWHERE AT THE DISCRETION OF THE SITE MANAGER AND NOT WITHIN 5m OF HAZARD AREAS INCLUDING LIKELY AREAS OF HIGH VELOCITY FLOWS SUCH AS WATERWAYS, PAVED AREAS & DRIVEWAYS.
4. WATER WILL BE PREVENTED FROM DIRECTLY ENTERING THE PERMANENT DRAINAGE SYSTEM WITH INLET FILTERS (SEE DETAILS) UNLESS IT IS SEDIMENT FREE.
5. TEMPORARY SEDIMENT TRAPS WILL BE RETAINED UNTIL AFTER THE LANDS THEY ARE PROTECTING ARE COMPLETELY REHABILITATED.

## SITE INSPECTION & MAINTENANCE CONDITIONS

THE SITE MANAGER WILL INSPECT THE SITE AT LEAST WEEKLY AND WILL:

1. ENSURE THAT DRAINS OPERATE PROPERLY & TO EFFECT ANY NECESSARY REPAIRS
2. REMOVE SPILLED SAND OR OTHER MATERIALS FROM HAZARD AREAS, INCLUDING LANDS CLOSER THAN 5m FROM AREAS OF LIKELY CONCENTRATED OR HIGH VELOCITY FLOWS ESPECIALLY WATERWAYS & PAVED AREAS.
3. REMOVE TRAPPED SEDIMENT WHENEVER LESS THAN DESIGN CAPACITY REMAINS WITHIN THE STRUCTURE
4. ENSURE REHABILITATED LANDS HAVE EFFECTIVELY REDUCED THE EROSION HAZARD AND TO INITIATE UPGRADING OR REPAIR AS APPROPRIATE.
5. CONSTRUCT ADDITIONAL EROSION AND/OR SEDIMENT CONTROL WORKS AS MIGHT BECOME NECESSARY TO ENSURE THE DESIRED PROTECTION IS GIVEN TO DOWNSLOPE LANDS AND WATERWAYS.
6. MAINTAIN EROSION & SEDIMENT CONTROL MEASURES IN A FULLY FUNCTIONING CONDITION UNTIL ALL EARTHWORK ACTIVITIES ARE COMPLETED AND THE SITE IS REHABILITATED.
7. REMOVE TEMPORARY SOIL CONSERVATION STRUCTURES AS THE LAST ACTIVITY IN THE REHABILITATION PROGRAM.

AS PART OF THE STATUTORY 'DILIGENCE OF CARE' RESPONSIBILITIES, THE SITE MANAGER WILL KEEP A LOGBOOK MAKING ENTRIES AT LEAST WEEKLY, IMMEDIATELY BEFORE FORECAST RAIN AND AFTER RAINFALL.
ENTRIES WILL INCLUDE:

1. THE VOLUME & INTENSITY OF ANY RAINFALL EVENTS
2. THE CONDITION OF ANY SOIL & WATER MANAGEMENT WORKS
3. THE CONDITION OF VEGETATION & ANY NEED TO IRRIGATE
4. THE NEED FOR DUST PREVENTION STRATEGIES
5. ANY REMEDIAL WORKS TO BE UNDERTAKEN

THE BOOK WILL BE KEPT ONSITE & MADE AVAILABLE TO ANY AUTHORISED PERSON ON REQUEST. IT WILL BE GIVEN TO THE PROJECT MANAGER AT THE CONCLUSION OF WORKS.

## LEGEND

- SITE BOUNDARY
- EX SURFACE LEVEL
- EX SURFACE CONTOUR
- EXISTING TREE TO BE RETAINED PENDING ARBORIST CONFIRMATION
- EXISTING STORMWATER DRAINAGE LINE
- HOARDING OR SITE FENCE
- SEDIMENT FENCE
- CATCH DRAIN
- GEOTEXTILE PIT FILTER / FILTER SURROUND INSTALLED ON EXISTING PIT
- SANDBAGS INSTALLED ON EXISTING PIT
- OVERLAND FLOW
- SWALE DRAIN
- STRAW BALE
- TEMPORARY SHAKER RAMP FOR ENTRY/EXIT
- SITE ACCESS GATE
- TEMPORARY STOCKPILE (LOCATION TBC ON-SITE)
- HAY BALES

GENERAL NOTE:

1. CHECK DAM FLOW CONTROL (SEE DETAILS) TO BE PROVIDED IN ANY CONCENTRATED FLOWS IN SWALES TO REDUCE SEDIMENT RUNOFF AS REQUIRED
2. ALL THE EXISTING SERVICES i.e. SEWER, GAS, ELECTRICITY, COMMUNICATIONS, WATER ETC TO BE DIVERTED/DEMOLISHED AS PER THE RELEVANT CONSULTANT DRAWINGS

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MEINHARDT BONACCI
Level 4, 66 Clarence Street
Sydney NSW 2000
Australia
T: +61 2 9699 3088
F: +61 2 9319 7518
info@meinhardt-bonacci.com
www.meinhardt-bonacci.com
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Project Name: TAMWORTH MENTAL HEALTH UNIT DEAN STREET, TAMWORTH NSW

Drawing Title: SEDIMENT & EROSION CONTROL PLAN

DRAFT TENDER

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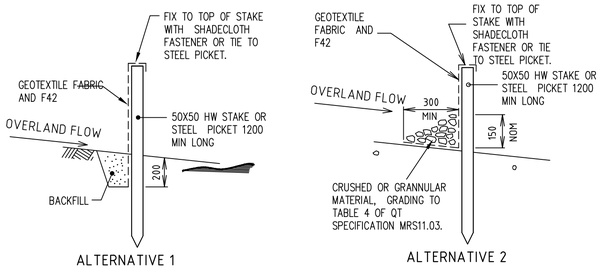
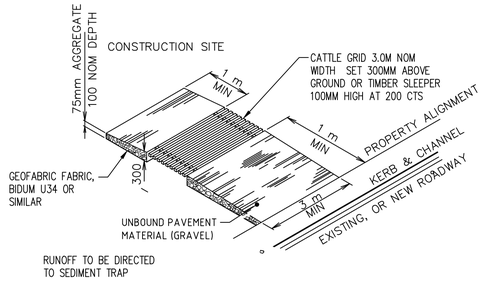
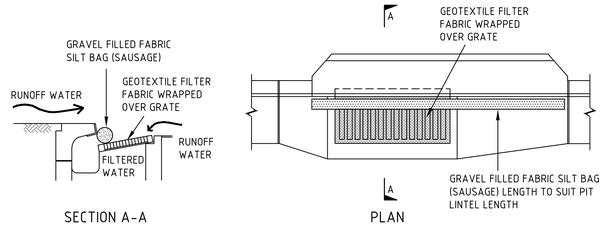


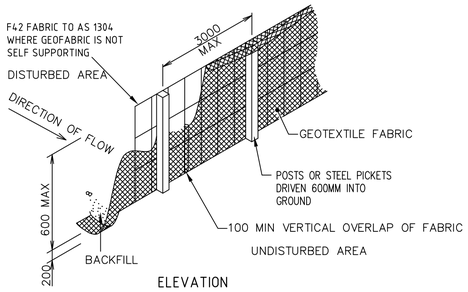

## TEMPORARY CONSTRUCTION VEHICLE ENTRY/EXIT SEDIMENT TRAP

NOT TO SCALE



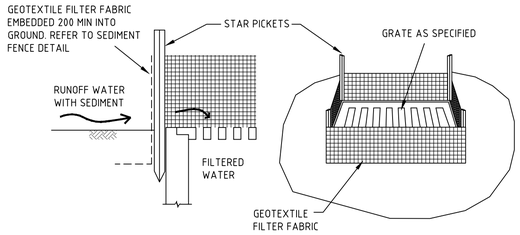

## KERB INLET SEDIMENT TRAP

NOT TO SCALE



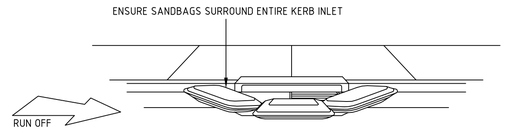

## SEDIMENT FENCE

NOT TO SCALE



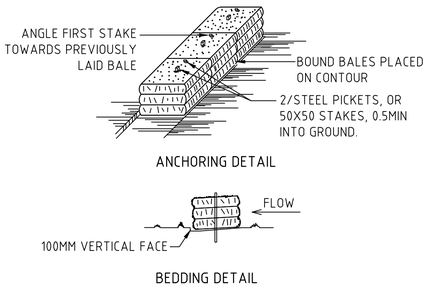

## GEOTEXTILE PIT FILTER 1

NOT TO SCALE



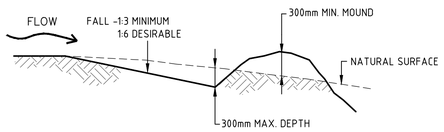

## SANDBAG KERB INLET SEDIMENT TRAP

NOT TO SCALE



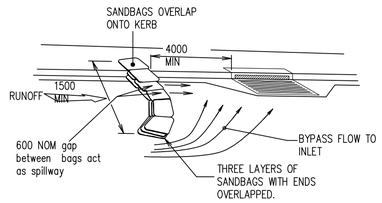

## STRAW BALE BANK SEDIMENT CONTROL

NOT TO SCALE




## CATCH DRAIN

NOT TO SCALE




## ON GRADE KERB INLET SEDIMENT TRAP

NOT TO SCALE

NSW GOVERNMENT | Health Infrastructure

***DETERMINED – APPROVAL***

**REF Approval No:** 09/2023

**Date: 29/3/2023**

**Signed by:**

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| Rev | Description | Date | By | App |
|---|---|---|---|---|
| P5 | ISSUED FOR TENDER REVIEW | 21.02.22 | AM | - |
| P4 | 65% DD ISSUE | 16.12.21 | AM | - |
| P3 | 40% DD ISSUE | 03.12.21 | HM | - |
| P2 | ISSUE FOR AUTHORITY APPROVAL | 08.09.21 | HM | - |
| P1 | ISSUE FOR SD | 09.08.21 | HM | - |

| Rev | Description | Date | By | App |
|---|---|---|---|---|
| P10 | ISSUED FOR DRAFT TENDER | 24.02.23 | DH | YC |
| P9 | ISSUED FOR COORDINATION | 25.11.22 | DH | YC |
| P8 | ISSUED FOR TENDER UPDATE | 06.07.22 | DH | GK |
| P7 | ISSUED FOR TENDER UPDATE | 16.03.22 | DH | GK |
| P6 | ISSUED FOR TENDER | 11.03.22 | AM | GK |

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MEINHARDT BONACCI
Level 4, 66 Clarence Street
Sydney NSW 2000
Australia
T: +61 2 9699 3088
F: +61 2 9319 7518
info@meinhardt-bonacci.com
www.meinhardt-bonacci.com
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Project Name: TAMWORTH MENTAL HEALTH UNIT DEAN STREET, TAMWORTH NSW

Drawing Title: SEDIMENT & EROSION CONTROL DETAILS

DRAFT TENDER

| | | | |
|---|---|---|---|
| Designed | AM | Approved | YC |
| Drawn | DH | Date | FEB 2023 |
| Scale | - | North | |
| Date | JUN 2021 | Project Ref | 13084 01 |
| Sheet | A1 | Drawing No | C005 |
| | | Rev | P10 |

Plotted: 22.02.23 at 5:28 PM By: Danjay Herrera

NSW GOVERNMENT | Health Infrastructure

***DETERMINED – APPROVAL***

**REF Approval No:** 09/2023

**Date: 29/3/2023**

**Signed by:**

| EARTHWORKS DEPTH RANGE | | | | |
|---|---|---|---|---|
| Lower_value | | Upper_value | | Colour |
| -100 | to | -1.0 | m | |
| -1.0 | to | -0.5 | m | |
| -0.5 | to | 0 | m | |
| 0 | to | 0.5 | m | |
| 0.5 | to | 1.0 | m | |
| 1.0 | to | 100 | m | |

## EXCAVATION NOTES

E1 VOLUMES ARE APPROXIMATE ONLY AND DO NOT INCORPORATE BULKING FACTORS AND OVER EXCAVATION. VOLUMES HAVE BEEN CALCULATED BETWEEN 150mm STRIPPED SURFACE LEVELS AND BULK EARTHWORKS SURFACE.

E2 GROUND WATER SEEPAGE MAY OCCUR IN EXCAVATED AREAS. DE-WATERING MAY BE REQUIRED IN THIS INSTANCE.

E3 THIS DRAWING ONLY DETAILS EXCAVATION ASSOCIATED WITH THE BUILDING SLAB (IGNORING STRUCTURAL FOOTINGS, BEAMS AND COLUMNS). IN ADDITION TO MAKING NO ALLOWANCE FOR TRENCH BACKFILL, TREE ROOTBALLS OR DETAILED EXCAVATION.

E4 PROVIDE TEMPORARY MAXIMUM 1 IN 1 BATTERS U.N.O. GEOTECH TO CONFIRM BATTER ACCEPTABILITY DURING CONSTRUCTION.

E5 THE EXCAVATED MATERIAL IS TO BE TEMPORARILY STOCKPILED WITHIN THE LANDSCAPED AREAS (TO BE CONFIRMED ON-SITE) AND RE-USED USING VALIDATED MATERIALS AS LANDSCAPING SOIL BUILD-UP/BACKFILL IN ACCORDANCE WITH LANDSCAPE ARCHITECTS SPECIFICATIONS.

E6 REFER TO ARBORIST REPORT FOR TREE PROTECTION MEASURES IF REQUIRED.

E7 SLAB THICKNESS PLUS 100mm THICK VOID FORMER HAVE BEEN CONSIDERED FOR BULK EARTHWORKS DEPTH FOR BUILDING FOOTPRINTS.

E8 SITE SURVEY SUPPLIED BY 'BROWN + KRIPPNER' PTY LTD, REFERENCE No. L1761.4 DRAWING No. 1761C0402-A DATED 08.02.21

E9 GRASSED AREAS HAVE BULK EARTHWORKS DEPTH OF 150mm FROM PROPOSED SURFACE LEVELS.

E10 CAPPING LAYER OF 250mm IS CONSIDERED FOR PAVED AREAS, AS PER REGIONAL GEOTECHNICAL SOLUTIONS PTY LTD'S GEOTECH REPORT RECOMMENDATION (RGS32576.1 - AP, DATED 14 SEPTEMBER 2022).

## BULK EARTHWORKS QUANTITIES SUMMARY (IN-PLACE)

| | |
|---|---|
| TOTAL 150mm STRIPPED SURFACE (ASSUMED TO BE REMOVED OFF-SITE) | = 370 $m^3$ |
| TOTAL CUT VOLUME | = 1,995 $m^3$ |
| TOTAL FILL VOLUME | = 2,260 $m^3$ |

VOLUME INCLUDES THE FOLLOWING:

| | |
|---|---|
| LEVEL 1 BUILDING FOOTPRINT (TO BE IMPORTED) | 135$m^3$ |
| LEVEL 1 LANDSCAPE (TO BE IMPORTED) | 355$m^3$ |
| LEVEL 2 UNDERCROFT (INSITU SOIL TO BE USED FOR LANDSCAPE SOFTSCAPE AREAS. WITH GAP AGAINST STRUCTURAL SLAB AND BEAMS, INCLUDING SERVICES) | 1,770$m^3$ |

| | |
|---|---|
| NET EXPORT (EXCLUDING STRIPPED TOPSOIL) | = 225 $m^3$ |
| NET IMPORT | = 490 $m^3$ |

## LEGEND

- SITE BOUNDARY
- EX SURFACE LEVEL
- EX SURFACE CONTOUR
- EXISTING TREE TO BE RETAINED PENDING ARBORIST CONFIRMATION
- Ex SW — EXISTING STORMWATER DRAINAGE LINE
- 9.25 — BULK EARTHWORKS CONTOURS
- BEL 416.5 — FINISHED BULK EXCAVATION LEVEL
- RETAINING WALL

DIAL BEFORE YOU DIG www.1100.com.au The Essential First Step

ALL EXISTING PROPERTY SERVICES' LOCATIONS AND DEPTHS ARE APPROXIMATE AND MUST BE VERIFIED ON SITE. THE CONTRACTOR SHOULD SUPPLY PRECISE LOCATIONS AND DEPTHS TO THE ENGINEER FOR REVIEW PRIOR TO ANY WORKS THAT MAY AFFECT THESE SERVICES.

**WARNING**

**BEWARE OF UNDERGROUND SERVICES**

THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE.

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| Rev | Description | Date | By | App |
|---|---|---|---|---|
| P7 | ISSUED FOR TENDER | 11.03.22 | AM | GK |
| P6 | ISSUED FOR TENDER REVIEW | 21.02.22 | DH | - |
| P5 | 85% DD ISSUE | 26.01.22 | AM | - |
| P4 | 65% DD ISSUE | 16.12.21 | AM | - |
| P3 | 40% DD ISSUE | 03.12.21 | HH | - |
| P15 | ISSUED FOR DRAFT TENDER | 24.02.23 | DH | YC |
| P14 | ISSUED FOR COORDINATION | 16.02.23 | DH | YC |
| P13 | ISSUED FOR COORDINATION | 09.02.23 | DH | YC |
| P12 | ISSUED FOR COORDINATION | 17.10.22 | DH | YC |
| P11 | ISSUED FOR COORDINATION | 10.10.22 | DH | YC |
| P10 | ISSUED FOR TENDER UPDATE | 06.07.22 | DH | GK |
| P9 | ISSUED FOR TENDER UPDATE | 05.04.22 | DH | GK |
| P8 | ISSUED FOR TENDER UPDATE | 16.03.22 | AM | GK |

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MEINHARDT BONACCI
Level 4, 66 Clarence Street
Sydney NSW 2000
Australia
T: +61 2 9699 3088
F: +61 2 9319 7518
info@meinhardt-bonacci.com
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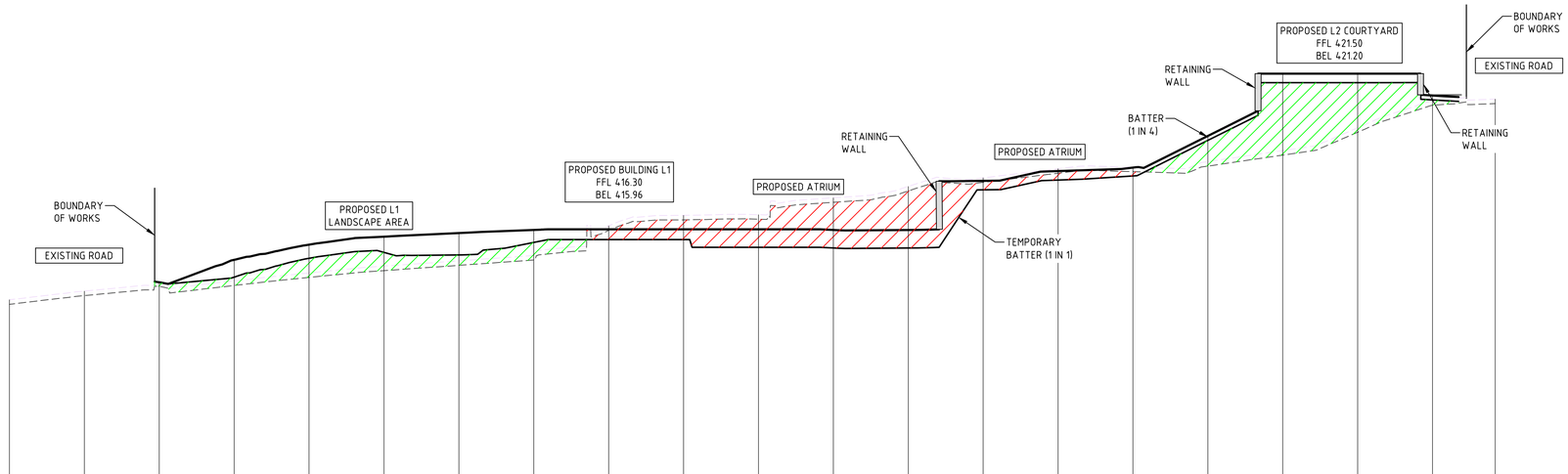
Project Name: TAMWORTH MENTAL HEALTH UNIT DEAN STREET, TAMWORTH NSW

Drawing Title: BULK EARTHWORKS DETAIL PLAN

DRAFT TENDER

| | | | |
|---|---|---|---|
| Designed | AM | Approved | YC |
| Drawn | DH | Date | OCT 2022 |
| Scale | 1:200 | North | |
| Date | JUN 2021 | Project Ref | 13084 01 |
| Sheet | A1 | Drawing No | C010 |
| | | Rev | P15 |

File: Plotted: 24.02.23 at 4:35 PM By: Danjay Herrera




DATUM 407.7

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SC01 | | | | | | | | | | | | | | | | | | | | | | |
| DESIGN SURFACE LEVEL | | | 414.539 | 415.282 | 415.790 | 416.056 | 416.178 | 416.281 | 416.300 | 416.300 | 416.300 | 416.280 | 416.278 | 417.920 | 418.246 | 418.364 | 419.421 | 421.500 | 421.500 | 420.769 | | |
| BULK EARTHWORKS SURFACE LEVEL | | | 414.532 | 414.705 | 415.334 | 415.531 | 415.444 | 415.864 | 415.960 | 415.960 | 415.700 | 415.680 | 415.678 | 417.746 | 417.879 | 418.082 | 419.271 | 421.200 | 421.200 | 420.619 | | |
| STRIPPED EXISTING SURFACE LEVEL | 413.796 | 414.087 | 414.390 | 414.426 | 414.694 | 414.922 | 415.097 | 415.277 | 416.266 | 416.616 | 416.639 | 417.202 | 417.584 | 417.870 | 418.174 | 418.228 | 418.413 | 418.780 | 419.542 | 420.445 | 420.501 | |
| EXISTING SURFACE LEVEL | 413.946 | 414.237 | 414.540 | 414.576 | 414.844 | 415.072 | 415.247 | 415.427 | 416.416 | 416.766 | 416.789 | 417.352 | 417.734 | 418.020 | 418.324 | 418.378 | 418.563 | 418.930 | 419.692 | 420.595 | 420.651 | |
| CHAINAGES | 0.000 | 5.000 | 10.000 | 15.000 | 20.000 | 25.000 | 30.000 | 35.000 | 40.000 | 45.000 | 50.000 | 55.000 | 60.000 | 65.000 | 70.000 | 75.000 | 80.000 | 85.000 | 90.000 | 95.000 | 99.178 | |

1 in 200 HORIZONTAL
1 in 100 VERTICAL

## SC01 LONGITUDINAL SECTION

NSW GOVERNMENT Health Infrastructure

***DETERMINED – APPROVAL***

**REF Approval No:** 09/2023

**Date: 29/3/2023**

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| Rev | Description | Date | By | App |
|---|---|---|---|---|
| P5 | ISSUED FOR COORDINATION | 09.02.23 | DH | YC |
| P4 | 65% DD ISSUE | 16.12.21 | AM | - |
| P3 | 40% DD ISSUE | 03.12.21 | HM | - |
| P2 | ISSUE FOR AUTHORITY APPROVAL | 08.09.21 | HM | - |
| P1 | ISSUE FOR SD | 09.08.21 | HM | - |

| Rev | Description | Date | By | App |
|---|---|---|---|---|
| P6 | ISSUED FOR DRAFT TENDER | 24.02.23 | DH | YC |

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MEINHARDT BONACCI
Level 4, 66 Clarence Street
Sydney NSW 2000
Australia
T: +61 2 9699 3088
F: +61 2 9319 7518
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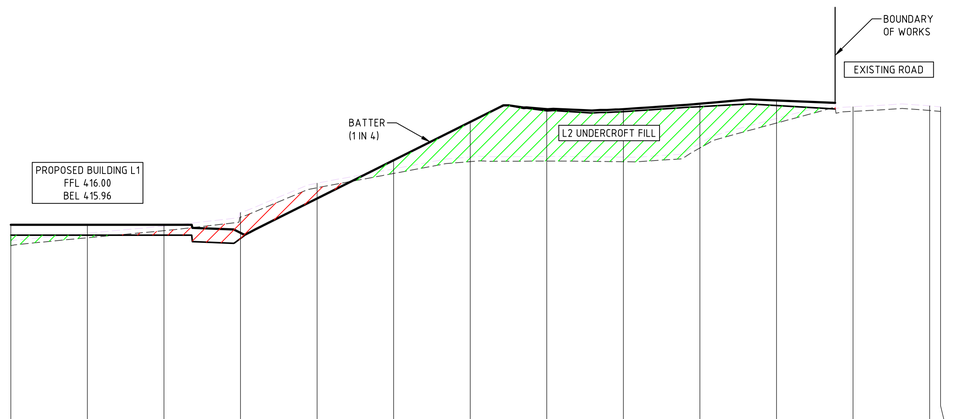
Project Name: TAMWORTH MENTAL HEALTH UNIT DEAN STREET, TAMWORTH NSW

Drawing Title: BULK EARTHWORKS LONGITUDINAL SECTIONS - SHEET 1

DRAFT TENDER

| | | | |
|---|---|---|---|
| Designed AM | Approved YC | Date FEB 2023 | North |
| Drawn DH | | | |
| Scale AS SHOWN | Project Ref 13084 01 | Drawing No C015 | Rev P6 |
| Date JUN 2021 | | | |
| Sheet A1 | | | |

File: Plotted: 24.02.23 at 2:06 PM By: Danjay Herrera

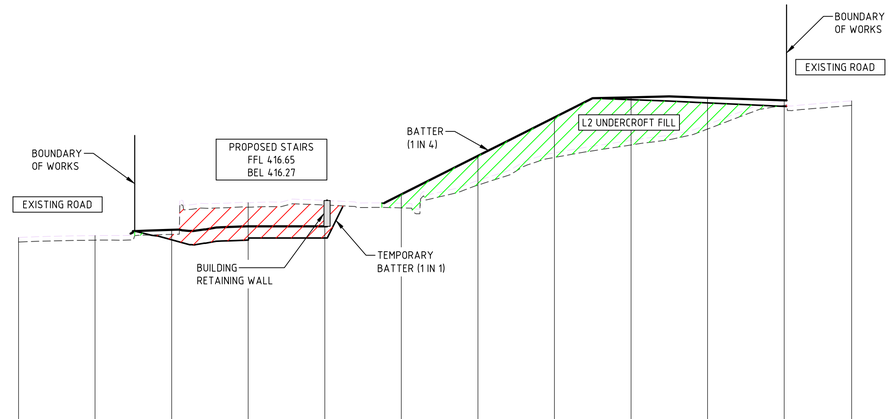



DATUM 409.6

| SC02 | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DESIGN SURFACE LEVEL | 416.300 | 416.300 | 416.300 | 416.035 | 417.157 | 418.407 | 419.657 | 420.075 | 420.074 | 420.253 | 420.359 | | | |
| BULK EARTHWORKS SURFACE LEVEL | 415.960 | 415.960 | 415.960 | 415.837 | 417.157 | 418.407 | 419.657 | 420.023 | 419.993 | 420.157 | 420.192 | | | |
| STRIPPED EXISTING SURFACE LEVEL | 415.618 | 415.876 | 416.109 | 416.547 | 417.508 | 417.975 | 418.362 | 418.379 | 418.359 | 418.808 | 419.620 | 420.004 | 420.031 | 419.998 |
| EXISTING SURFACE LEVEL | 415.768 | 416.026 | 416.259 | 416.697 | 417.658 | 418.125 | 418.512 | 418.529 | 418.509 | 418.958 | 419.770 | 420.154 | 420.181 | 420.148 |
| CHAINAGES | 0.000 | 5.000 | 10.000 | 15.000 | 20.000 | 25.000 | 30.000 | 35.000 | 40.000 | 45.000 | 50.000 | 55.000 | 60.000 | 60.716 |

1 in 200 HORIZONTAL
1 in 100 VERTICAL

## SC02 LONGITUDINAL SECTION




DATUM 410.0

| SC03 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DESIGN SURFACE LEVEL | | 416.536 | 416.651 | 416.650 | 417.693 | 418.950 | 420.206 | 420.860 | 420.846 | 420.762 | | |
| BULK EARTHWORKS SURFACE LEVEL | | 416.210 | 416.201 | 416.270 | 417.693 | 418.950 | 420.206 | 420.785 | 420.619 | 420.563 | | |
| STRIPPED EXISTING SURFACE LEVEL | 416.137 | 416.198 | 416.387 | 417.273 | 417.345 | 417.251 | 417.995 | 418.899 | 419.306 | 419.826 | 420.598 | 420.598 |
| EXISTING SURFACE LEVEL | 416.287 | 416.348 | 416.537 | 417.423 | 417.495 | 417.401 | 418.145 | 419.049 | 419.456 | 419.976 | 420.748 | 420.748 |
| CHAINAGES | 0.000 | 5.000 | 10.000 | 15.000 | 20.000 | 25.000 | 30.000 | 35.000 | 40.000 | 45.000 | 50.000 | 54.404 |

1 in 200 HORIZONTAL
1 in 100 VERTICAL

## SC03 LONGITUDINAL SECTION

NSW GOVERNMENT | Health Infrastructure

***DETERMINED – APPROVAL***

**REF Approval No:** 09/2023

**Date: 29/3/2023**

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| Rev | Description | Date | By | App |
|---|---|---|---|---|
| P5 | ISSUED FOR COORDINATION | 09.02.23 | DH | YC |
| P4 | 65% DD ISSUE | 16.12.21 | AH | - |
| P3 | 40% DD ISSUE | 03.12.21 | HH | - |
| P2 | ISSUE FOR AUTHORITY APPROVAL | 08.09.21 | HH | - |
| P1 | ISSUE FOR SD | 09.08.21 | HH | - |
| P6 | ISSUED FOR DRAFT TENDER | 24.02.23 | DH | YC |

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MEINHARDT BONACCI
Level 4, 66 Clarence Street
Sydney NSW 2000
Australia
T: +61 2 9699 3088
F: +61 2 9319 7518
info@meinhardt-bonacci.com
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Project Name: TAMWORTH MENTAL, HEALTH UNIT DEAN STREET, TAMWORTH NSW

Drawing Title: BULK EARTHWORKS LONGITUDINAL SECTIONS - SHEET 2

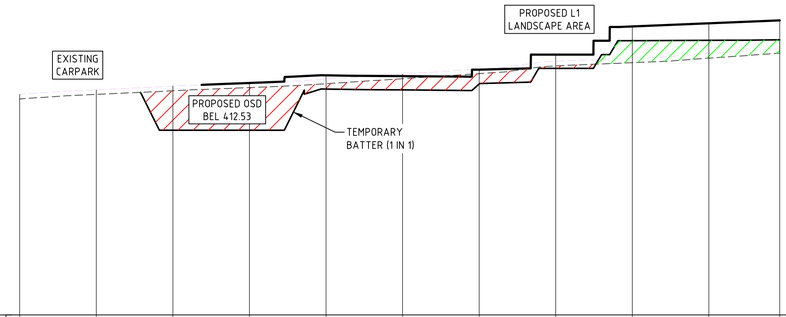
DRAFT TENDER

| | | | |
|---|---|---|---|
| Designed | AM | Approved | YC |
| Drawn | DH | Date | FEB 2023 |
| Scale | AS SHOWN | | |
| Date | JUN 2021 | | |
| Sheet | A1 | | |

North

| Project Ref | Drawing No | Rev |
|---|---|---|
| 13084 01 | C016 | P6 |

File: Plotted: 24.02.23 at 2:11 PM By: Danjay Herrera

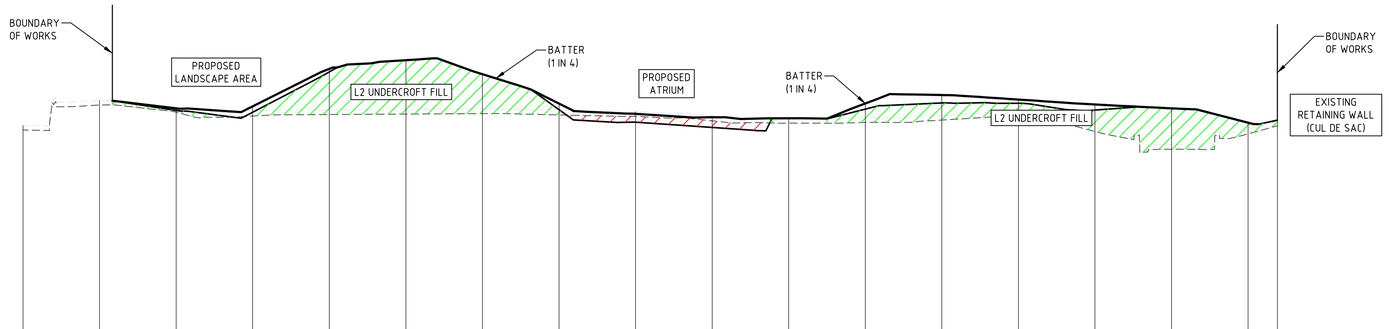



DATUM 406.5

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SC04 | | | | | | | | | | | |
| DESIGN SURFACE LEVEL | | | | 414.074 | 414.324 | 414.296 | 414.507 | 415.000 | 415.919 | 416.022 | 416.117 |
| BULK EARTHWORKS SURFACE LEVEL | | | 412.530 | 412.530 | 413.874 | 413.846 | 414.041 | 414.550 | 415.452 | 415.465 | 415.480 |
| STRIPPED EXISTING SURFACE LEVEL | 413.552 | 413.700 | 413.818 | 413.922 | 414.049 | 414.214 | 414.379 | 414.630 | 414.736 | 414.884 | 415.044 |
| EXISTING SURFACE LEVEL | 413.702 | 413.850 | 413.968 | 414.072 | 414.199 | 414.364 | 414.529 | 414.780 | 414.886 | 415.034 | 415.194 |
| CHAINAGES | 0.000 | 5.000 | 10.000 | 15.000 | 20.000 | 25.000 | 30.000 | 35.000 | 40.000 | 45.000 | 49.628 |

1 in 200 HORIZONTAL
1 in 100 VERTICAL

## SC04 LONGITUDINAL SECTION




DATUM 411.1

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SC05 | | | | | | | | | | | | | | | | | | |
| DESIGN SURFACE LEVEL | | | 418.569 | 418.634 | 419.857 | 420.138 | 419.681 | 418.724 | 418.386 | 418.279 | 418.243 | 418.727 | 419.002 | 418.854 | 418.694 | 418.568 | 418.099 | |
| BULK EARTHWORKS SURFACE LEVEL | | | 418.499 | 418.441 | 419.738 | 420.138 | 419.681 | 418.660 | 418.118 | 417.945 | | 418.544 | 418.744 | 418.716 | 418.509 | 418.568 | 418.099 | 418.180 |
| STRIPPED EXISTING SURFACE LEVEL | 417.858 | 418.673 | 418.441 | 418.316 | 418.365 | 418.380 | 418.395 | 418.353 | 418.307 | 418.160 | 418.086 | 418.107 | 418.185 | 418.319 | 417.811 | 417.235 | 417.733 | 417.999 |
| EXISTING SURFACE LEVEL | 418.008 | 418.823 | 418.591 | 418.466 | 418.515 | 418.530 | 418.545 | 418.503 | 418.457 | 418.310 | 418.236 | 418.257 | 418.335 | 418.469 | 417.961 | 417.385 | 417.883 | 418.149 |
| CHAINAGES | 0.000 | 5.000 | 10.000 | 15.000 | 20.000 | 25.000 | 30.000 | 35.000 | 40.000 | 45.000 | 50.000 | 55.000 | 60.000 | 65.000 | 70.000 | 75.000 | 80.000 | 81.914 |

1 in 200 HORIZONTAL
1 in 100 VERTICAL

## SC05 LONGITUDINAL SECTION

NSW GOVERNMENT | Health Infrastructure

***DETERMINED – APPROVAL***

**REF Approval No:** 09/2023

**Date: 29/3/2023**

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| Rev | Description | Date | By | App |
|---|---|---|---|---|
| P4 | ISSUED FOR DRAFT TENDER | 24.02.23 | DH | YC |
| P3 | ISSUED FOR COORDINATION | 09.02.23 | DH | YC |
| P2 | 65% DD ISSUE | 16.12.21 | AM | - |
| P1 | 40% DD ISSUE | 03.12.21 | HM | - |

| Rev | Description | Date | By | App |
|---|---|---|---|---|

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Australia
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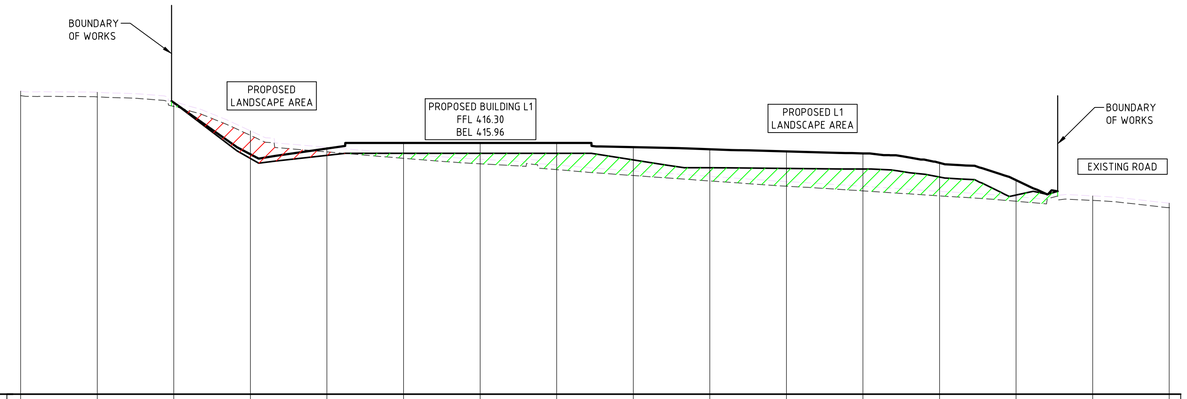
Project Name: TAMWORTH MENTAL, HEALTH UNIT DEAN STREET, TAMWORTH NSW

Drawing Title: BULK EARTHWORKS LONGITUDINAL SECTIONS - SHEET 3

DRAFT TENDER

| | | | |
|---|---|---|---|
| Designed AM | Approved YC | Date FEB 2023 | North |
| Drawn DH | | | |
| Scale AS SHOWN | | | |
| Date JUN 2021 | Project Ref 13084 01 | Drawing No C017 | Rev P4 |
| Sheet A1 | | | |

File: Plotted: 24.02.23 at 2:13 PM By: Danjay Herrera




DATUM 408.1

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SC06 | | | | | | | | | | | | | | | | | |
| DESIGN SURFACE LEVEL | | | 417.616 | 415.930 | 416.115 | 416.300 | 416.300 | 416.300 | 416.161 | 416.094 | 416.022 | 415.958 | 415.649 | 415.084 | | | |
| BULK EARTHWORKS SURFACE LEVEL | | | 417.612 | 415.793 | 415.894 | 415.960 | 415.960 | 415.960 | 415.746 | 415.689 | 415.468 | 415.450 | 415.187 | 414.599 | | | |
| STRIPPED EXISTING SURFACE LEVEL | 417.843 | 417.804 | 417.490 | 416.547 | 416.007 | 415.798 | 415.618 | 415.430 | 415.235 | 415.058 | 414.888 | 414.735 | 414.570 | 414.395 | 414.422 | 414.187 | |
| EXISTING SURFACE LEVEL | 417.993 | 417.954 | 417.640 | 416.697 | 416.157 | 415.948 | 415.768 | 415.580 | 415.385 | 415.208 | 415.038 | 414.885 | 414.720 | 414.545 | 414.572 | 414.337 | |
| CHAINAGES | 0.000 | 5.000 | 10.000 | 15.000 | 20.000 | 25.000 | 30.000 | 35.000 | 40.000 | 45.000 | 50.000 | 55.000 | 60.000 | 65.000 | 70.000 | 75.000 | |

1 in 200 HORIZONTAL
1 in 100 VERTICAL

## SC06 LONGITUDINAL SECTION

NSW GOVERNMENT | Health Infrastructure

***DETERMINED – APPROVAL***

**REF Approval No:** 09/2023

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| P4 | ISSUED FOR DRAFT TENDER | 24.02.23 | DH | YC |
| P3 | ISSUED FOR COORDINATION | 09.02.23 | DH | YC |
| P2 | 65% DD ISSUE | 16.12.21 | AM | - |
| P1 | 40% DD ISSUE | 03.12.21 | HM | - |

| Rev | Description | Date | By | App |
|---|---|---|---|---|

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Project Name: TAMWORTH MENTAL, HEALTH UNIT DEAN STREET, TAMWORTH NSW

Drawing Title: BULK EARTHWORKS LONGITUDINAL SECTIONS - SHEET 4

DRAFT TENDER

| | | | |
|---|---|---|---|
| Designed | AM | Approved | YC |
| Drawn | DH | Date | FEB 2023 |
| Scale | AS SHOWN | North | |
| Date | JUN 2021 | Project Ref | 13084 01 |
| Sheet | A1 | Drawing No | C018 |
| | | Rev | P4 |

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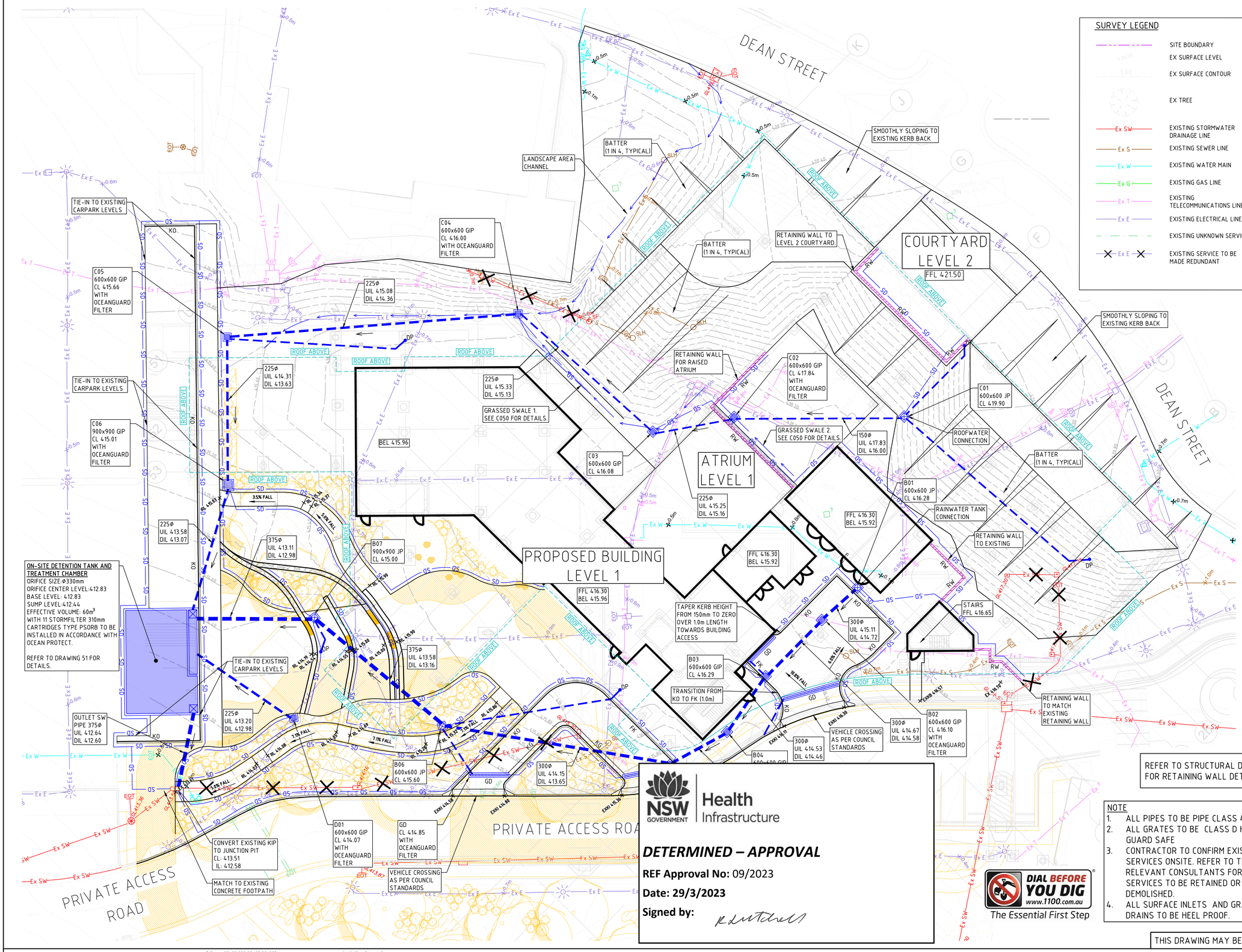


## SURVEY LEGEND

- SITE BOUNDARY
- EX SURFACE LEVEL
- EX SURFACE CONTOUR
- EX TREE
- Ex SW — EXISTING STORMWATER DRAINAGE LINE
- Ex S — EXISTING SEWER LINE
- Ex W — EXISTING WATER MAIN
- Ex G — EXISTING GAS LINE
- Ex T — EXISTING TELECOMMUNICATIONS LINE
- Ex E — EXISTING ELECTRICAL LINE
- EXISTING UNKNOWN SERVICE
- Ex E — EXISTING SERVICE TO BE MADE REDUNDANT

## SITEWORKS LEGEND

- 32.00 — FINISHED SURFACE CONTOUR
- EX RL 7.25 — EXISTING FINISHED SURFACE LEVEL
- RL 10.00 — FINISHED SURFACE SPOT LEVEL
- KO — KERB ONLY
- KG — KERB AND GUTTER
- FK — FLUSH KERB
- DD — DISH DRAIN
- RW — RETAINING WALL
- BATTER LINE
- PAVEMENT TYPE MEDIUM DUTY ASPHALT PAVEMENT
- NEW LANDSCAPE (REFER TO LANDSCAPE CONSULTANTS DRAWINGS AND SPECIFICATIONS)
- CONCRETE FOOTPATH PAVEMENT
- ASPHALT RESHEET
- SURFACE INLET PIT
- JUNCTION PIT
- STORMWATER DRAINAGE LINE
- GD — GRATED DRAIN
- DP — DOWNPIPE AND CONNECTION LINE (REFER TO HYDRAULIC DRAWINGS FOR DETAILS)
- FOR SD — FLUSHOUT RISER (max 30m CTRS) WITH SUBSOIL DRAINAGE (100ø uPVC SLOTTED PIPE UN-SOCKED)
- Ex SW — EXISTING STORMWATER TO BE MADE REDUNDANT
- IO — INSPECTION OPENING
- OVERLAND FLOW
- DIRECTION AND GRADE OF FALL
- ONSITE DETENTION TANK
- CATCH DRAIN

LEVELS AND GRADES ARE UNDER REVIEW AND SUBJECT TO FURTHER COORDINATION

**WARNING**
NO DRAINAGE WORKS SHALL COMMENCE UNTIL THE CONTRACTOR CONFIRMS THE I.L. OF ALL EXISTING DRAINS, AND CONFIRMS IN WRITING WITH THE ENGINEERING SUPERVISOR.

REFER TO STRUCTURAL DRAWINGS FOR RETAINING WALL DETAILS.

NSW GOVERNMENT | Health Infrastructure

***DETERMINED – APPROVAL***

**REF Approval No:** 09/2023

**Date: 29/3/2023**

**Signed by:**

DIAL BEFORE YOU DIG www.1100.com.au
The Essential First Step

NOTE
1. ALL PIPES TO BE PIPE CLASS 4
2. ALL GRATES TO BE CLASS D HEEL GUARD SAFE
3. CONTRACTOR TO CONFIRM EXISTING SERVICES ONSITE. REFER TO THE RELEVANT CONSULTANTS FOR SERVICES TO BE RETAINED OR DEMOLISHED.
4. ALL SURFACE INLETS AND GRATED DRAINS TO BE HEEL PROOF.

**WARNING**
**BEWARE OF UNDERGROUND SERVICES**
THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE.

ALL EXISTING PROPERTY SERVICES' LOCATIONS AND DEPTHS ARE APPROXIMATE AND MUST BE VERIFIED ON SITE.
THE CONTRACTOR SHOULD SUPPLY PRECISE LOCATIONS AND DEPTHS TO THE ENGINEER FOR REVIEW PRIOR TO ANY WORKS THAT MAY AFFECT THESE SERVICES.

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|---|---|---|---|---|
| P5 | 85% DD ISSUE | 26.01.22 | AM | - |
| P4 | 65% DD ISSUE | 16.12.21 | AM | - |
| P3 | 40% DD ISSUE | 03.12.21 | HM | - |
| P2 | ISSUE FOR AUTHORITY APPROVAL | 08.09.21 | HM | - |
| P1 | ISSUE FOR SD | 09.08.21 | HM | - |

| Rev | Description | Date | By | App |
|---|---|---|---|---|
| P13 | ISSUED FOR DRAFT TENDER | 24.02.23 | DH | YC |
| P12 | ISSUED FOR COORDINATION | 25.11.22 | DH | YC |
| P11 | ISSUED FOR COORDINATION | 10.10.22 | DH | YC |
| P10 | ISSUED FOR TENDER UPDATE | 06.07.22 | DH | GK |
| P9 | ISSUED FOR TENDER UPDATE | 05.04.22 | DH | GK |
| P8 | ISSUED FOR TENDER UPDATE | 16.03.22 | DH | GK |
| P7 | ISSUED FOR TENDER | 11.03.22 | AM | GK |
| P6 | ISSUED FOR TENDER REVIEW | 21.02.22 | DH | - |

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MEINHARDT BONACCI
Level 4, 66 Clarence Street
Sydney NSW 2000
Australia
T: +61 2 9699 3088
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Project Name: TAMWORTH MENTAL HEALTH UNIT DEAN STREET, TAMWORTH NSW

Drawing Title: SITEWORKS AND STORMWATER DRAINAGE PLAN - LEVEL 1 SHEET 1

DRAFT TENDER

| | | | |
|---|---|---|---|
| Designed | AM | Approved | YC |
| Drawn | DH | Date | FEB 2023 |
| Scale | 1:200 | North | |
| Date | JUN 2021 | Project Ref | 13084 01 |
| Sheet | A1 | Drawing No | C030 |
| | | Rev | P13 |

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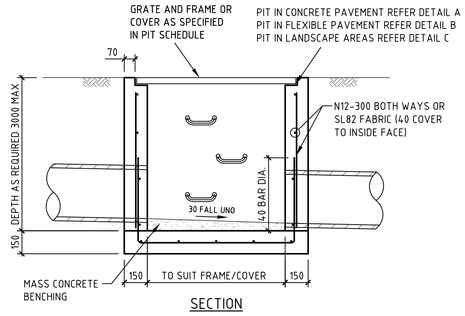
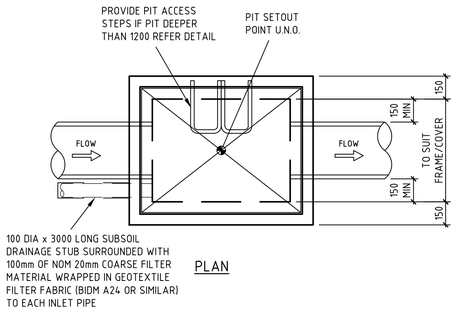



SECTION



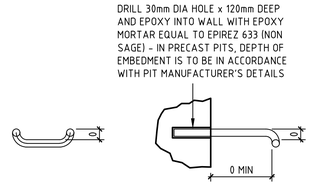

PLAN

## SURFACE INLET/JUNCTION PIT DETAIL

SCALE 1:20

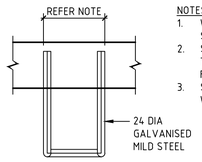
### STORMWATER PIT NOTES

1. CONCRETE TO HAVE A MIN. COMPRESSIVE STRENGTH (F'c) OF 25 MPa AT 28 DAYS.
2. REINFORCEMENT NOT REQUIRED IF DEPTH OF PIT IS LESS THAN 1000mm. PITS GREATER THAN 3000mm DEEP TO HAVE WALL AND BASE 200mm THICK REINFORCED WITH N12-250 EACH WAY EACH FACE WITH CONCRETE STRENGTH F'c = 40 MPa.
3. PROVIDE STEP IRONS AT MAX 350mm CTRS IF DEPTH OF PIT EXCEEDS 1200mm.
4. IF REINFORCING FABRIC IS TO BE USED REFER TO WALL AND CORNER DETAILS
5. PRECAST PITS ARE TO GENERALLY COMPLY WITH THESE DETAILS.
6. PRECAST PIT MAY BE USED SUBJECT TO ENGINEERS APPROVAL.
7. ALL PITS TO BE LOCKABLE.
8. FINAL INTERNAL PIT DIMENSIONS ARE TO COMPLY WITH AS 3500.




FRONT ELEVATION

SIDE ELEVATION

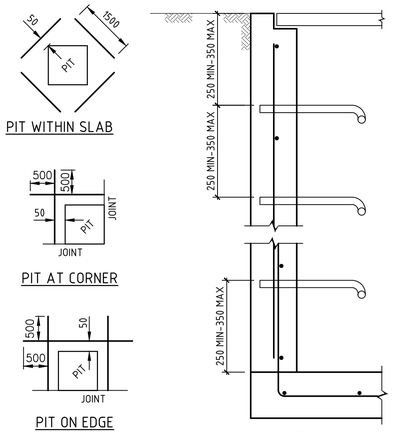



PLAN

NOTES
1. WHEN POSITIONED IN STRAIGHT ALIGNMENT, STEP TO BE 400 WIDE.
2. STAGGERED STEPS TO BE 200 WIDE, STEPS TO BE STAGGERED 200 CENTRE TO CENTRE FOR ALTERNATIVE STEPS.
3. SPACING OF STEPS TO BE UNIFORM TO WITHIN ±8mm IN EACH PIT.

## PIT ACCESS STEP DETAIL

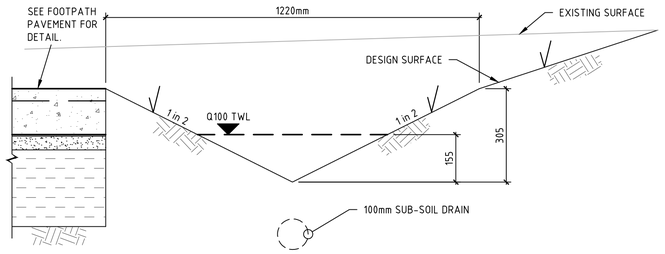
SCALE 1:10




SECTION

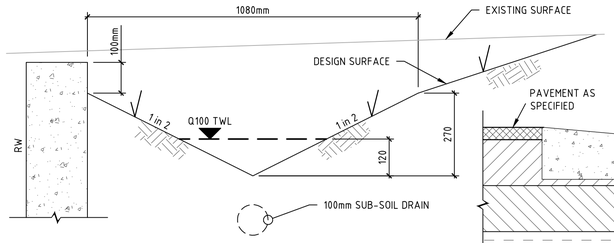
## DETAIL OF SLAB REINFORCEMENT AT PITS IN CONCRETE PAVEMENT

N.T.S.



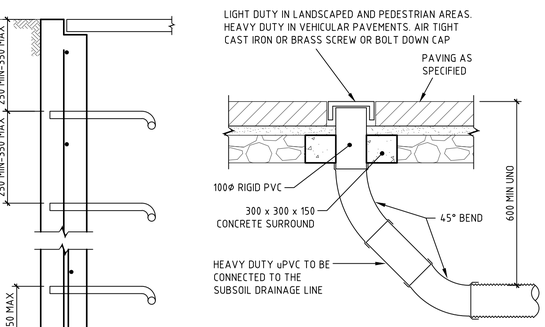

## GRASSED SWALE 1 SECTION

SCALE 1:10



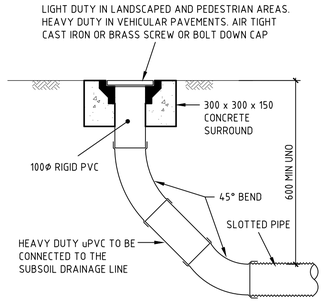

## GRASSED SWALE 2 SECTION

SCALE 1:10




## FLUSHOUT RISER (FOR) IN PAVING BRICKS

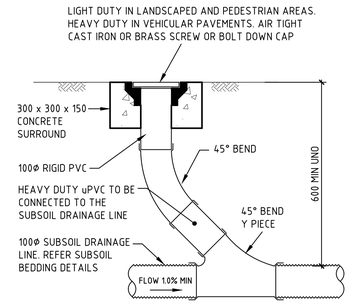
SCALE 1:10




## FLUSHOUT RISER (FOR)

SCALE 1:10

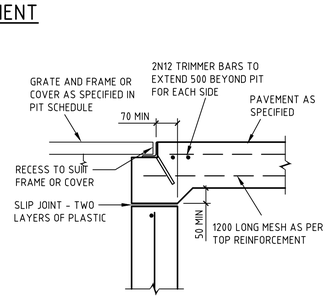
NOTE: SLOTTED RIGID PVC PIPE AND FITTINGS WITHIN DRAINAGE LAYER ONLY




## INTERMEDIATE RISER

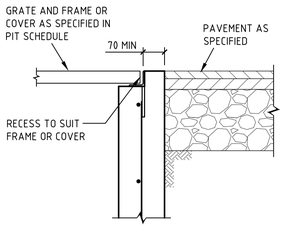
SCALE 1:10

NOTE: SLOTTED RIGID PVC PIPE AND FITTINGS MAY BE USED



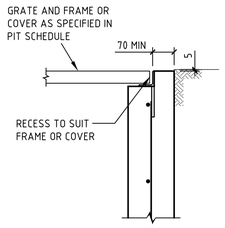

## DETAIL A

SCALE 1:10



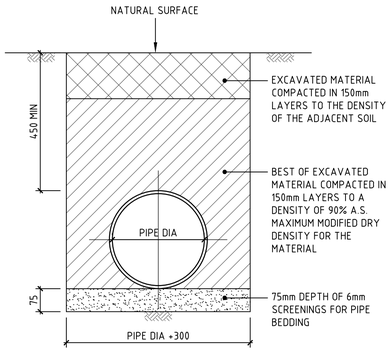

## DETAIL B

SCALE 1:10



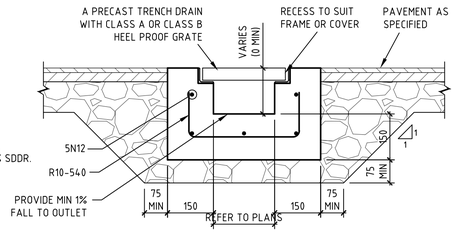

## DETAIL C

SCALE 1:10



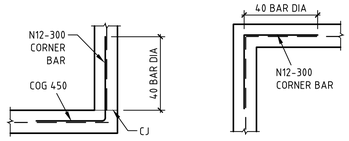

## PIPE LAYING DETAIL (ALL PIPES) UNDER LANDSCAPED AREAS

SCALE 1:10




## GRATED DRAIN

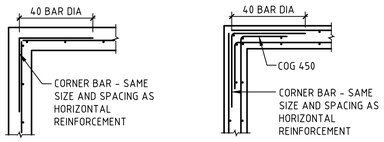
SCALE 1:10




ELEVATION AT BASE

PLAN

FABRIC




PLAN - SINGLE LAYER

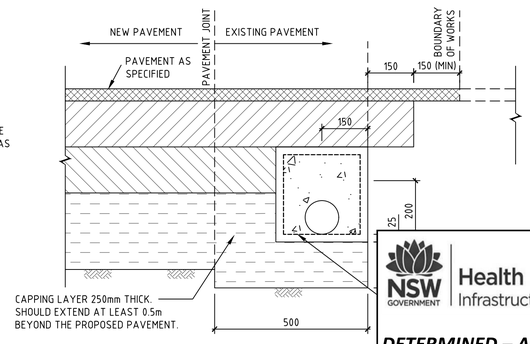
PLAN - DOUBLE LAYER

REINFORCEMENT

## PIT CORNER DETAILS

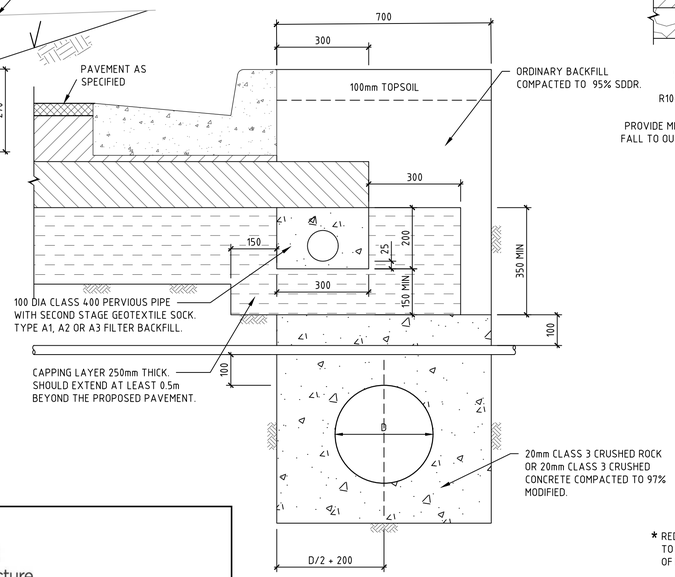
SCALE 1:20

NOTE: DESIGNER TO VERIFY EXTENT OF DETAILING



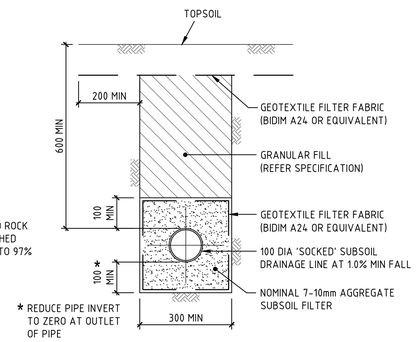

## SUBSOIL IN JOINT PAVED ARE

SCALE 1:10




## OIL BEHIND KERB

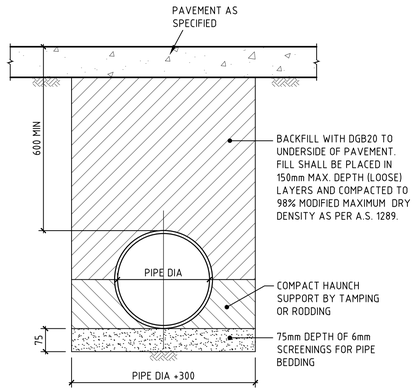
UITS FOR GAS, WATER, ELECTRICITY AND TELECOM SERVICES TO BE TED CLEAR OF PAVEMENT AND THE SUBSURFACE DRAIN.




* REDUCE PIPE INVERT TO ZERO AT OUTLET OF PIPE

## SUBSOIL IN LANDSCAPED AREAS

SCALE 1:10




## PIPE LAYING DETAILS UNDER ALL PAVEMENTS

SCALE 1:10

NOTE: AVOID RUNNING CONSTRUCTION EQUIPMENT OVER THE PIPES UNTIL BACKFILL MATERIAL IS 300mm MIN. ABOVE CROWN OF PIPE.

NSW GOVERNMENT Health Infrastructure

***DETERMINED – APPROVAL***

**REF Approval No:** 09/2023

**Date: 29/3/2023**

**Signed by:**

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|---|---|---|---|---|
| P5 | ISSUED FOR TENDER REVIEW | 21.02.22 | AM | - |
| P4 | 65% DD ISSUE | 16.12.21 | AM | - |
| P3 | 40% DD ISSUE | 03.12.21 | HM | - |
| P2 | ISSUE FOR AUTHORITY APPROVAL | 08.09.21 | HM | - |
| P1 | ISSUE FOR SD | 25.06.21 | HM | - |

| Rev | Description | Date | By | App |
|---|---|---|---|---|
| P11 | ISSUED FOR DRAFT TENDER | 24.02.23 | DH | YC |
| P10 | ISSUED FOR COORDINATION | 25.11.22 | DH | YC |
| P9 | ISSUED FOR TENDER UPDATE | 06.07.22 | DH | GK |
| P8 | ISSUED FOR TENDER UPDATE | 30.03.22 | DH | GK |
| P7 | ISSUED FOR TENDER UPDATE | 16.03.22 | DH | GK |
| P6 | ISSUED FOR TENDER | 11.03.22 | AM | GK |

MEINHARDT BONACCI
Level 4, 66 Clarence Street
Sydney NSW 2000
Australia
T: +61 2 9699 3088
F: +61 2 9319 7518
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Project Name: TAMWORTH MENTAL HEALTH UNIT DEAN STREET, TAMWORTH NSW

Drawing Title: SITEWORKS AND STORMWATER DRAINAGE DETAILS

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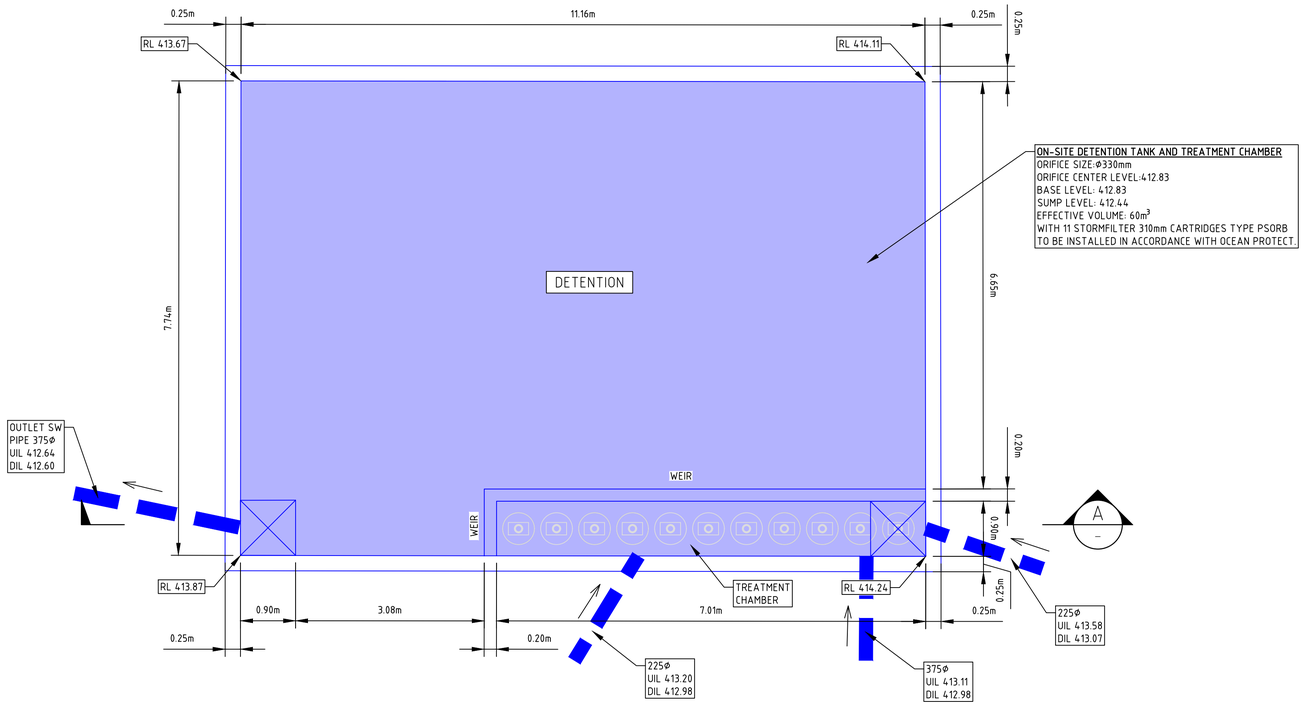
DRAFT TENDER

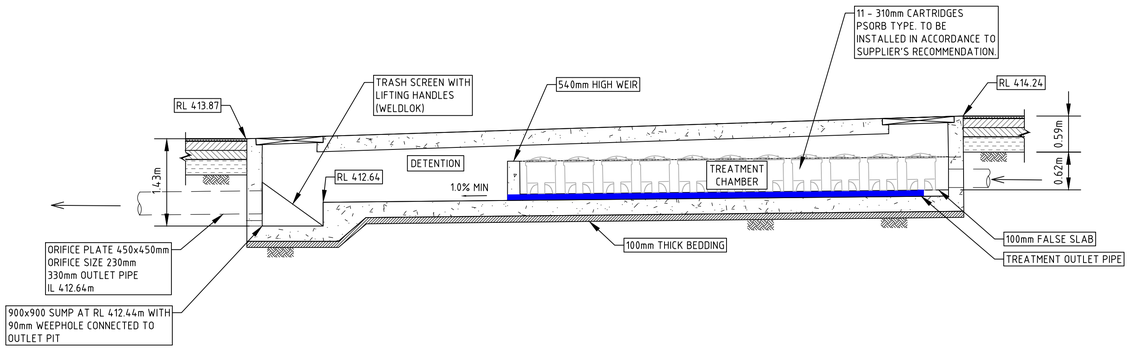
| | | | |
|---|---|---|---|
| Designed | LD | Approved | YC |
| Drawn | DH | Date | FEB 2023 |
| Scale | - | North | |
| Date | JUN 2021 | Project Ref | 13084 01 |
| Sheet | A1 | Drawing No | C050 |
| | | Rev | P11 |

File: Plotted: 24.02.23 at 5:49 PM By: Danjay Herrera




## BUILDING ON SITE DETENTION PLAN

SCALE 1:50




## SECTION A-A

SCALE 1:50

NSW GOVERNMENT | Health Infrastructure

***DETERMINED – APPROVAL***

**REF Approval No:** 09/2023

**Date: 29/3/2023**

**Signed by:**

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| P5 | ISSUED FOR TENDER | 21.02.22 | AM | - |
| P4 | 65% DD ISSUE | 16.12.21 | AM | - |
| P3 | 40% DD ISSUE | 03.12.21 | HM | - |
| P2 | ISSUE FOR AUTHORITY APPROVAL | 08.09.21 | HM | - |
| P1 | ISSUE FOR SD | 09.08.21 | HM | - |

| Rev | Description | Date | By | App |
|---|---|---|---|---|
| P11 | ISSUED FOR DRAFT TENDER | 24.02.23 | DH | YC |
| P10 | ISSUED FOR COORDINATION | 25.10.22 | DH | YC |
| P9 | ISSUED FOR TENDER UPDATE | 06.07.22 | DH | GK |
| P8 | ISSUED FOR TENDER UPDATE | 05.04.22 | DH | GK |
| P7 | ISSUED FOR TENDER UPDATE | 16.03.22 | DH | GK |
| P6 | ISSUED FOR TENDER | 11.03.22 | AM | GK |

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Sydney NSW 2000
Australia
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Project Name: TAMWORTH MENTAL HEALTH UNIT DEAN STREET, TAMWORTH NSW

Drawing Title: ON-SITE DETENTION TANK DETAILS

DRAFT TENDER

| | | | |
|---|---|---|---|
| Designed | LD | Approved | YC |
| Drawn | DH | Date | FEB 2023 |
| Scale | NTS | North | |
| Date | JUN 2021 | Project Ref | 13084 01 |
| Sheet | A1 | Drawing No | C051 |
| | | Rev | P11 |

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## SURVEY LEGEND

- SITE BOUNDARY
- EX SURFACE LEVEL
- EX SURFACE CONTOUR
- EXISTING TREE TO BE RETAINED PENDING ARBORIST CONFIRMATION

## PAVEMENT LEGEND

- PAVEMENT TYPE MEDIUM DUTY ASPHALT PAVEMENT
- CONCRETE FOOTPATH PAVEMENT
- CONCRETE VEHICULAR CROSSING TO COUNCIL STANDARD DETAILS

NSW GOVERNMENT Health Infrastructure

***DETERMINED – APPROVAL***

**REF Approval No:** 09/2023

**Date:** 29/3/2023

**Signed by:** R Mitchell

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The Essential First Step

ALL EXISTING PROPERTY SERVICES' LOCATIONS AND DEPTHS ARE APPROXIMATE AND MUST BE VERIFIED ON SITE.
THE CONTRACTOR SHOULD SUPPLY PRECISE LOCATIONS AND DEPTHS TO THE ENGINEER FOR REVIEW PRIOR TO ANY WORKS THAT MAY AFFECT THESE SERVICES.

**WARNING**

BEWARE OF UNDERGROUND SERVICES

THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE.

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| P3 | 40% DD ISSUE | 03.12.21 | HM | - |
| P2 | ISSUE FOR AUTHORITY APPROVAL | 08.09.21 | HM | - |
| P1 | ISSUE FOR SD | 09.08.21 | HM | - |

| Rev | Description | Date | By | App |
|---|---|---|---|---|
| P11 | ISSUED FOR DRAFT TENDER | 24.02.23 | DH | YC |
| P10 | ISSUED FOR COORDINATION | 25.11.22 | DH | YC |
| P9 | ISSUED FOR TENDER UPDATE | 06.07.22 | DH | GK |
| P8 | ISSUED FOR TENDER UPDATE | 05.04.22 | DH | GK |
| P7 | ISSUED FOR TENDER UPDATE | 16.03.22 | DH | GK |
| P6 | ISSUED FOR TENDER | 11.03.22 | AM | GK |

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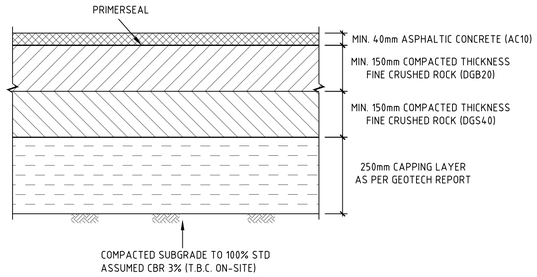
Project Name: TAMWORTH MENTAL HEALTH UNIT DEAN STREET, TAMWORTH NSW

Drawing Title: OVERALL PAVEMENT PLAN

DRAFT TENDER

| | | | |
|---|---|---|---|
| Designed | AM | Approved | YC |
| Drawn | DH | Date | FEB 2023 |
| Scale | 1:200 | North | |
| Date | JUN 2021 | Project Ref | 13084 01 |
| Sheet | A1 | Drawing No | C060 |
| | | Rev | P11 |

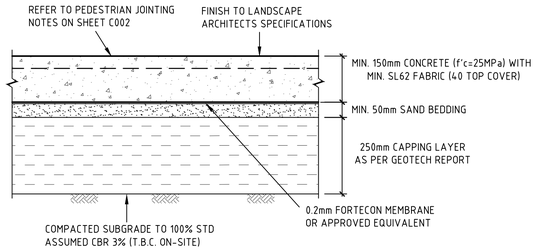
File: Plotted: 24.02.23 at 5:11 PM By: Danjay Herrera




## PAVEMENT TYPE P2 MEDIUM DUTY ASPHALT PAVEMENT

SCALE 1:10

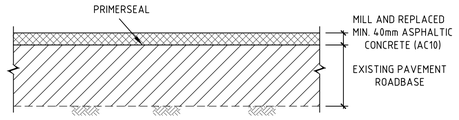
DENOTED ON PLAN




## PAVEMENT TYPE P7 CONCRETE FOOTPATH PAVEMENT

SCALE 1:10

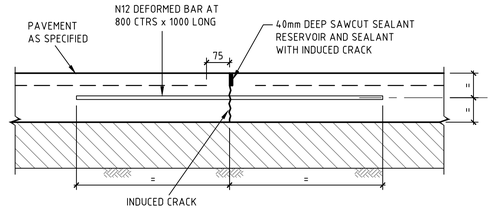
DENOTED ON PLAN




## PAVEMENT TYPE P11 ASPHALT RESHEET

SCALE 1:10

DENOTED ON PLAN




## LONGITUDI

SCALE 1:10

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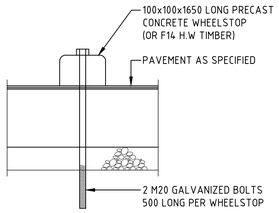
**REF Approval No:** 09/2023

**Date: 29/3/2023**

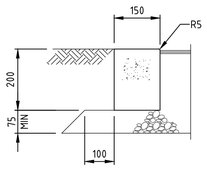
**Signed by:**




## WHEEL STOP IN FLEXIBLE PAVEMENT

SCALE 1:10

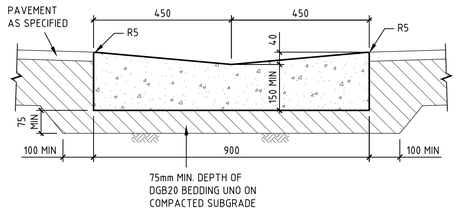
WSF




## FLUSH KERB (FK)

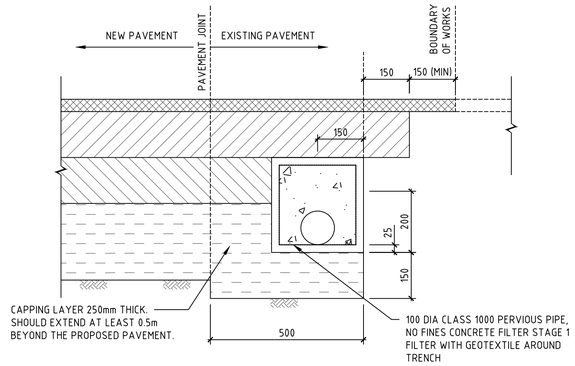
SCALE 1:10

FK



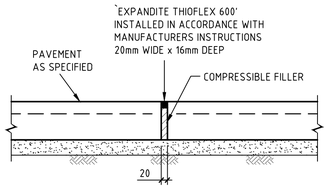

## DISH DRAIN (DD1)

SCALE 1:10



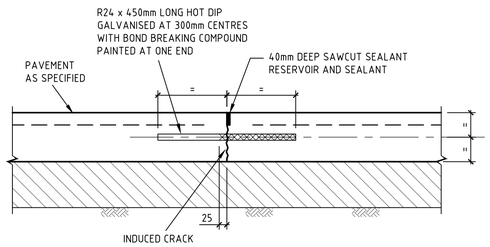

## ASPHALT CONNECTION TO EXISTING PAVEMENT

SCALE 1:10



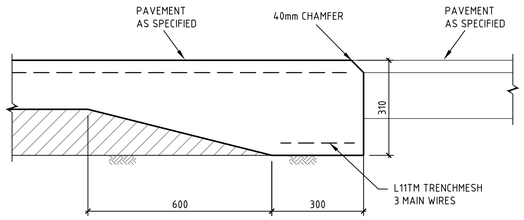

## EXPANSION JOINT (EJ)

SCALE 1:10



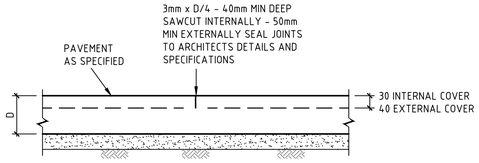

## TRANSVERSE CONTRACTION JOINT (TCJ)

SCALE 1:10




## EDGE THICKENING (ET)

SCALE 1:10

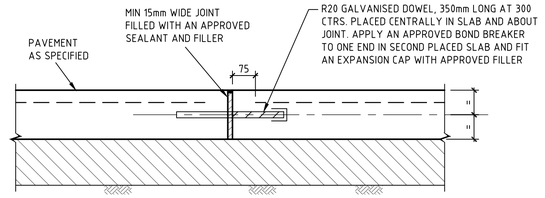



## SAWCUT JOINT (SJ)

SCALE 1:10

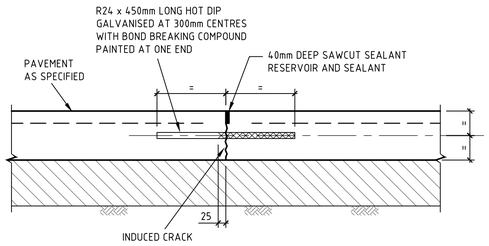
NOTES

1. SLAB MUST BE SAWCUT AS SOON AS PRACTICABLE AFTER FINISHING OF THE SLAB WITHOUT CAUSING DAMAGE TO THE SAWCUT EDGES - USUALLY 12-24 HOURS.
2. SLABS MUST NOT BE POURED IF TEMPERATURE EXCEEDS 32°
3. HOT WEATHER PLACING (25° AND OVER) MAY REQUIRE SLABS TO BE SAWCUT AS SOON AS 5-6 HOURS AFTER POURING.
4. ANY SLAB BAY IN WHICH SHRINKAGE CRACKS OCCUR DUE TO LATE SAWCUTTING MUST BE REMOVED AND REPLACED BY THE BUILDER/CONTRACTOR.



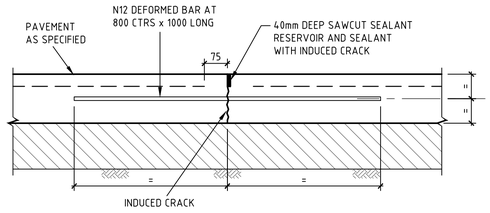

## DOWELLED EXPANSION JOINT (DEJ)

SCALE 1:10



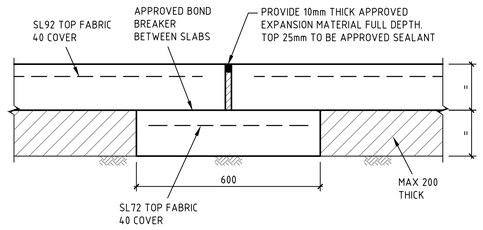

## TRANSVERSE CONTRACTION JOINT (TCJ)

SCALE 1:10



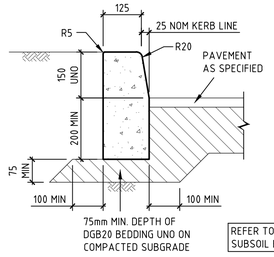

## LONGITUDINAL WARPING JOINT (LWJ)

SCALE 1:10




## ISOLATION JOINT (IJ) WITH SUBGRADE BEAM

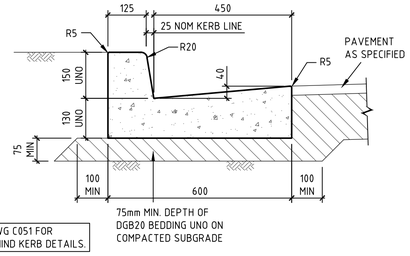
SCALE 1:20




REFER TO DWG C051 FOR SUBSOIL BEHIND KERB DETAILS.

## KERB ONLY (KO)

SCALE 1:10




## KERB AND GUTTER (K&G)

SCALE 1:10

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| P5 | ISSUED FOR TENDER REVIW | 21.02.22 | AM | - |
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| P3 | 40% DD ISSUE | 03.12.21 | HM | - |
| P2 | ISSUE FOR AUTHORITY APPROVAL | 08.09.21 | HM | - |
| P1 | ISSUE FOR SD | 09.08.21 | HM | - |

| Rev | Description | Date | By | App |
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| P9 | ISSUED FOR TENDER UPDATE | 06.07.22 | DH | GK |
| P8 | ISSUED FOR TENDER UPDATE | 30.03.22 | DH | GK |
| P7 | ISSUED FOR TENDER UPDATE | 16.03.22 | DH | GK |
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Level 4, 66 Clarence Street
Sydney NSW 2000
Australia
T: +61 2 9699 3088
F: +61 2 9319 7518
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Project Name: TAMWORTH MENTAL HEALTH UNIT DEAN STREET, TAMWORTH NSW

Drawing Title: PAVEMENT DETAILS

DRAFT TENDER

| | | | |
|---|---|---|---|
| Designed | AM | Approved | YC |
| Drawn | DH | Date | FEB 2023 |
| Scale | - | North | |
| Date | JUN 2021 | Project Ref | 13084 01 |
| Sheet | A1 | Drawing No | C070 |
| | | Rev | P11 |

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