

WESTERN SYDNEY UNIVERSITY

BANKSTOWN CITY CAMPUS DEVELOPMENT

DRAWING No.	DESCRIPTION
C00-01	DRAWING REGISTER AND CONSTRUCTION NOTES
C00-05	SEDIMENT AND EROSION CONTROL PLAN
C00-06	SEDIMENT AND EROSION CONTROL DETAILS
C00-10	BULK EARTHWORKS PLAN
C00-20	BULK EARTHWORKS LONGITUDINAL SECTIONS SHEET 1
C00-21	BULK EARTHWORKS LONGITUDINAL SECTIONS SHEET 2
C00-41	SITWORKS AND STORMWATER DRAINAGE PLAN- SHEET 1
C00-42	SITWORKS AND STORMWATER DRAINAGE PLAN- SHEET 2
C00-43	SITWORKS AND STORMWATER DRAINAGE PLAN- SHEET 3
C00-44	SITWORKS AND STORMWATER DRAINAGE PLAN- SHEET 4
C00-60	SITWORKS AND STORMWATER DRAINAGE DETAILS SHEET 1
C00-61	SITWORKS AND STORMWATER DRAINAGE DETAILS SHEET 2
C00-62	APPIAN WAY LONG SECTION
C00-65	COUNCIL STANDARD LAYBACK
C00-70	OVERALL PAVEMENT PLAN
C00-80	DRIVEWAY LONG SECTIONS
C00-90	RICKARD ROAD SIGNPOST AND LINEMARKING PLAN

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 BY DOUGLAS PARTNERS, PROJECT NO. 86462.00, DATED AUGUST 2018.
- 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.
- 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.

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.

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 150 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 > 12m 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.

SITWORKS 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 'E11' 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 DOUGLAS PARTNERS, PROJECT 86462.00 DATED AUGUST 2018. MOISTURE CONTENT TO BE MAINTAINED AT +/- 2% OMC. MINIMUM COMPACTION REQUIREMENTS ARE DETAILED BELOW FOR (ALL REQUIREMENTS ARE TO BE VERIFIED BY A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER):
- LANDSCAPED AREAS 95% 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.

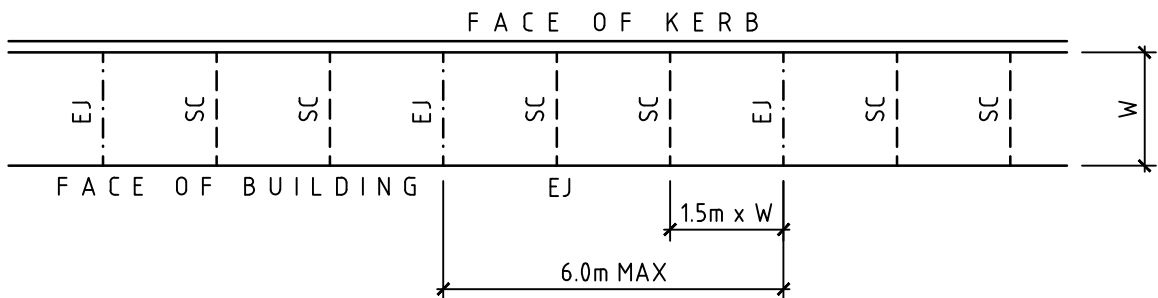
THE MAXIMUM COMPACTION IS TO BE NO GREAT THAN 4% ON TOP OF THE ABOVE MENTION VALUES.

- 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 UNSERVICEABLE 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 15 METRES THE CONTRACTOR MUST:
A) NOTIFY THE OCCUPATIONAL HEALTH AND SAFETY AUTHORITY ON THE APPROPRIATE FORM.

JOINTING NOTES

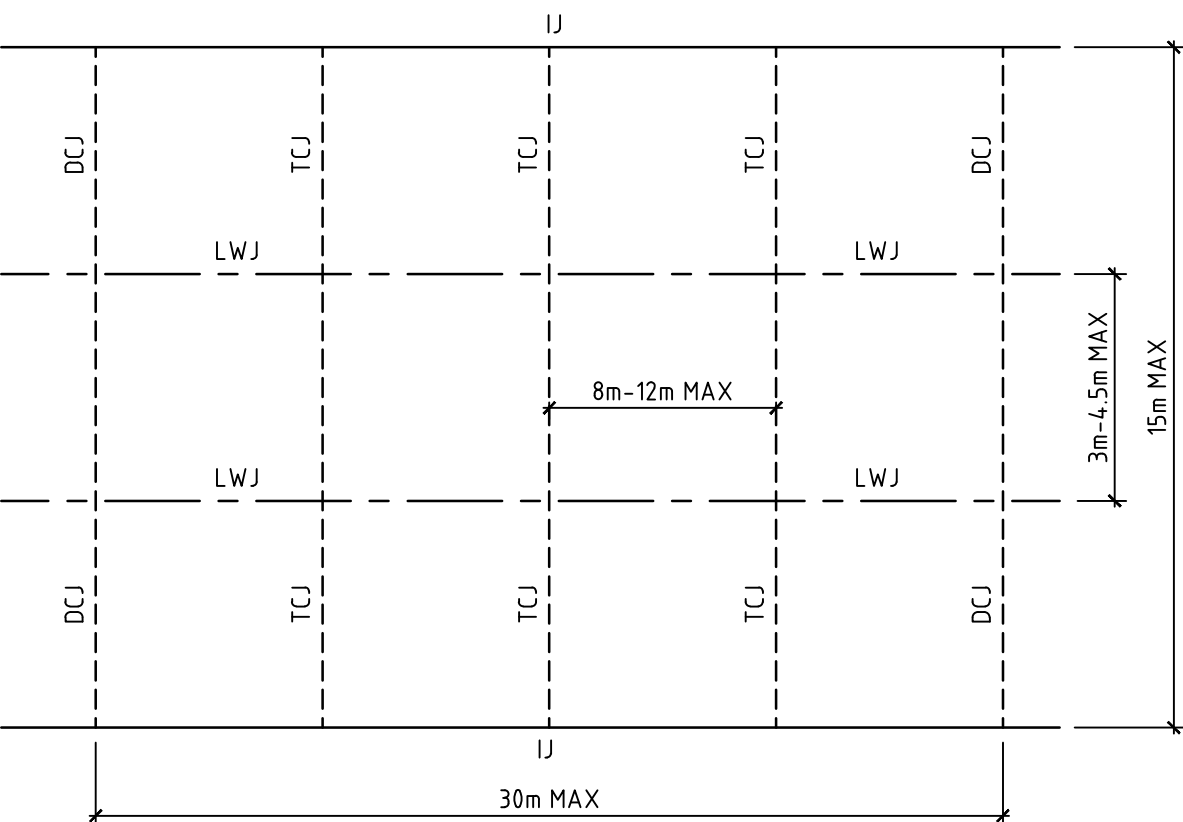
PEDESTRIAN FOOTPATH JOINTS

- 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 AUSTRROADS AGPT02-12 GUIDE TO PAVEMENT TECHNOLOGY PART 2 STRUCTURAL PAVEMENT DESIGN AND SUPPLEMENT AP-136-06 PAVEMENT DESIGN FOR LIGHT TRAFFIC
- J12 VEHICULAR PAVEMENT JOINTING AS FOLLOWS (U.N.O.)



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REV.	DETAILS	DATE
01	PRELIMINARY DRAFT ISSUE	25.02.19
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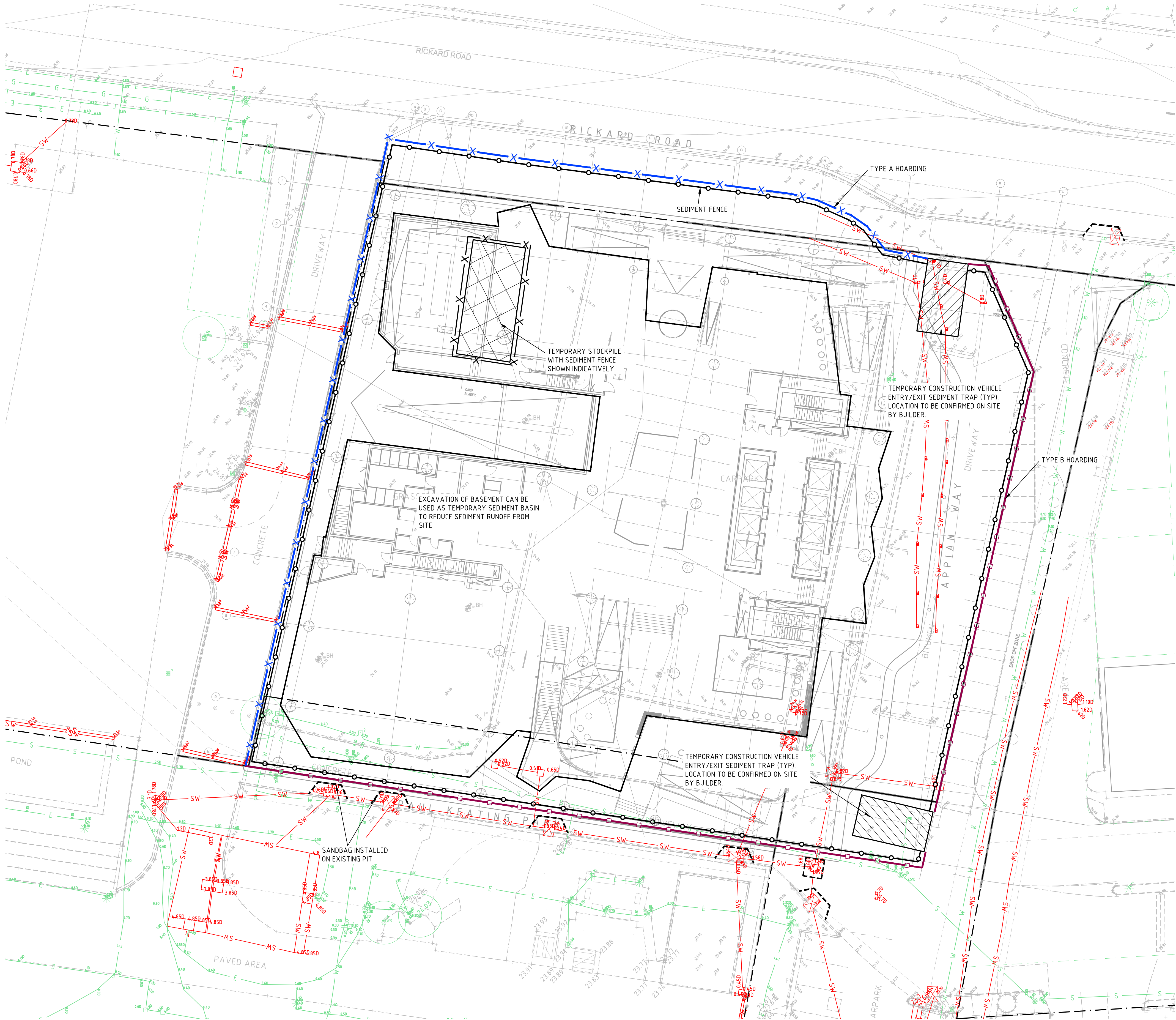
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PROJECT
NEW WESTERN SYDNEY UNIVERSITY
BANKSTOWN CITY CAMPUS
74 RICKARD ROAD ALONG WITH A PORTION OF 375 CHAPEL ROAD

DRAWING TITLE
DRAWING REGISTER & CONSTRUCTION NOTES

DETAILED DESIGN				NORTH
				SCALE NTS
JOB No. 1097901C	DRAWN PA	CHECKED -	DATE -	
DRAWING No. C00-01				REVISION 06



SOIL AND WATER MANAGEMENT LEGEND

- BOUNDARY
- EX SURFACE CONTOUR
- EX TREE
- EX STORMWATER DRAINAGE LINE
- EX SEWER LINE
- EX WATER MAIN
- EX GAS LINE
- EX TELECOMMUNICATIONS LINE
- EX ELECTRICAL LINE
- TYPE A HOARDING
- SEDIMENT FENCE
- TYPE B HOARDING
- TEMPORARY SHAKER RAMP FOR ENTRY/EXIT
- TEMPORARY STOCKPILE (LOCATION TBC ON-SITE)
- SANDBAGS INSTALLED ON EXISTING PIT
- GEOTEXTILE PIT FILTER / FILTER SURROUND INSTALLED ON EXISTING PIT

SOIL AND WATER MANAGEMENT NOTES

- IT HAS BEEN ASSUMED THAT SEDIMENT FENCING WILL BE PROVIDED TO THE STAGE 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 BELOW AS REQUIRED TO PREVENT SEDIMENT FROM LEAVING SITE, DIRECT RUNOFF TO SEDIMENT BASIN.
- ALL SEDIMENT CONTROL MEASURES TO BE INSTALLED IN ACCORDANCE WITH LANDCOM MANAGING URBAN STORMWATER "BLUE BOOK".
- MINIMISE CLEARING OUTSIDE BASEMENT EXTENT.
- SEDIMENT CONTROL FOR LANDSCAPED WORKS DOWNSTREAM OF THE BUILDING TO INCLUDE A SILTFENCE AND SANDBAGS AS REQUIRED. TO BE MANAGED AT A RATE OF 50L/S BY THE CONTRACTOR ON SITE. INSTALL CATCH DRAIN TO DIVERT UPSTREAM CATCHMENT AWAY FROM DISTURBED SOIL AREA.

SEDIMENT CONTROL CONDITIONS

- 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.
- SEDIMENT REMOVED FROM ANY TRAPPING DEVICE WILL BE RELOCATED WHERE FURTHER POLLUTION TO DOWNSLOPE LANDS & WATERWAYS CANNOT OCCUR.
- 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.
- WATER WILL BE PREVENTED FROM DIRECTLY ENTERING THE PERMANENT DRAINAGE SYSTEM WITH INLET FILTERS (SEE DETAILS) UNLESS IT IS SEDIMENT FREE.
- TEMPORARY SEDIMENT TRAPS WILL BE RETAINED UNTIL AFTER THE LANDS THEY ARE PROTECTING ARE COMPLETELY REHABILITATED.
- CONTRACTOR TO DESIGN/SIZE/CONSTRUCT TEMPORARY SEDIMENT BASIN. WATER SHOULD BE ALLOWED TO SETTLE BEFORE DISCHARGE. CONTRACTOR MUST VERIFY THAT WATER QUALITY MEETS AUTHORITIES REQUIREMENTS PRIOR TO DISCHARGE. ACCUMULATED SEDIMENT SHOULD THEN BE REMOVED & DISPOSED OF IN ACCORDANCE WITH ENVIRONMENTAL MANAGEMENT PROCEDURES.

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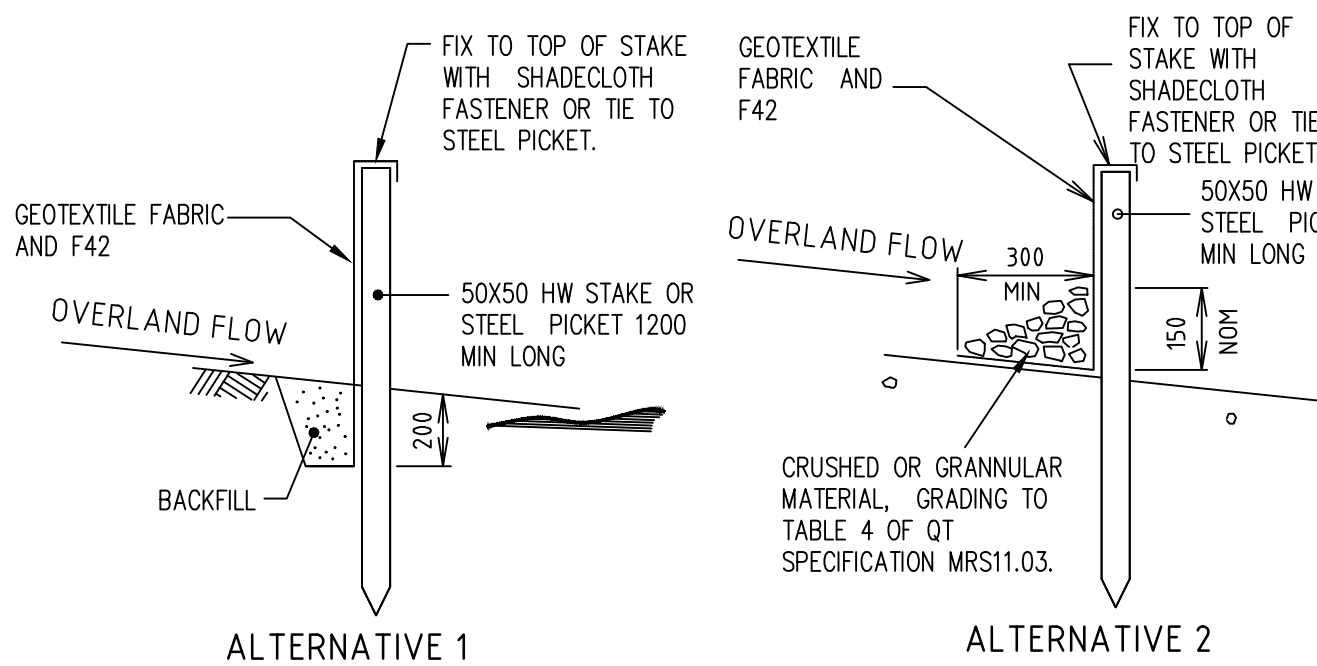
PROJECT
**NEW WESTERN SYDNEY UNIVERSITY
BANKSTOWN CITY CAMPUS**
74 RICKARD ROAD ALONG WITH A PORTION
375 CHAPEL ROAD

DRAWING TITLE
**SEDIMENT AND EROSION
CONTROL PLAN**

DETAILED DESIGN

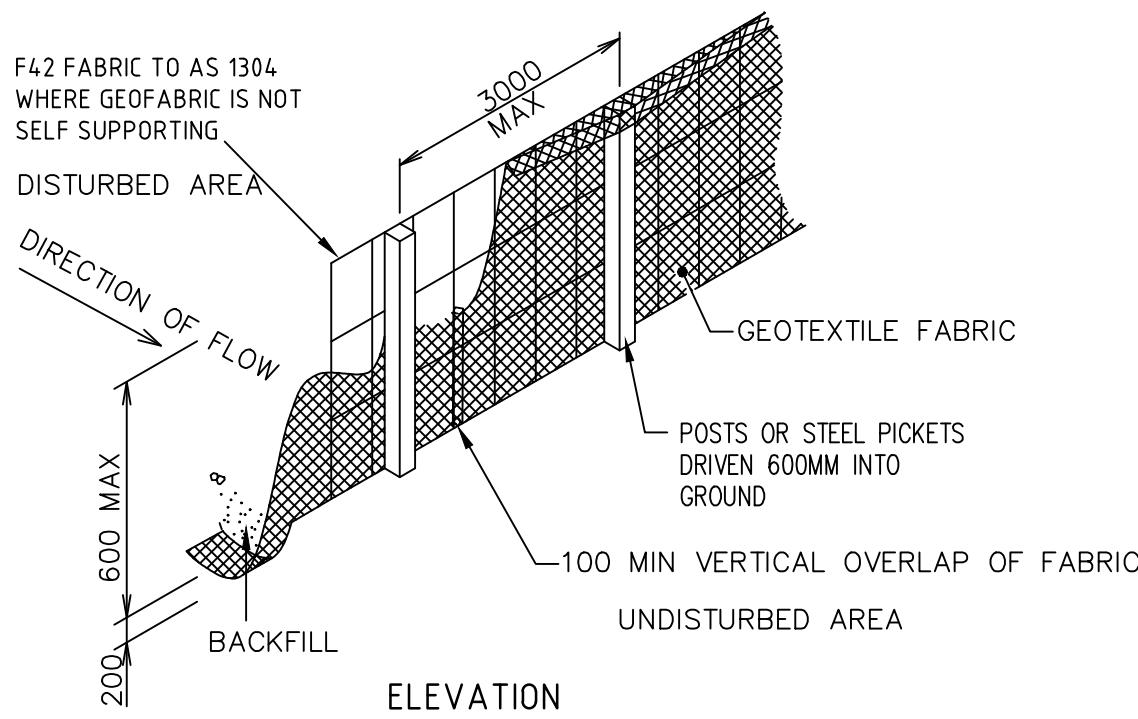
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NORTH
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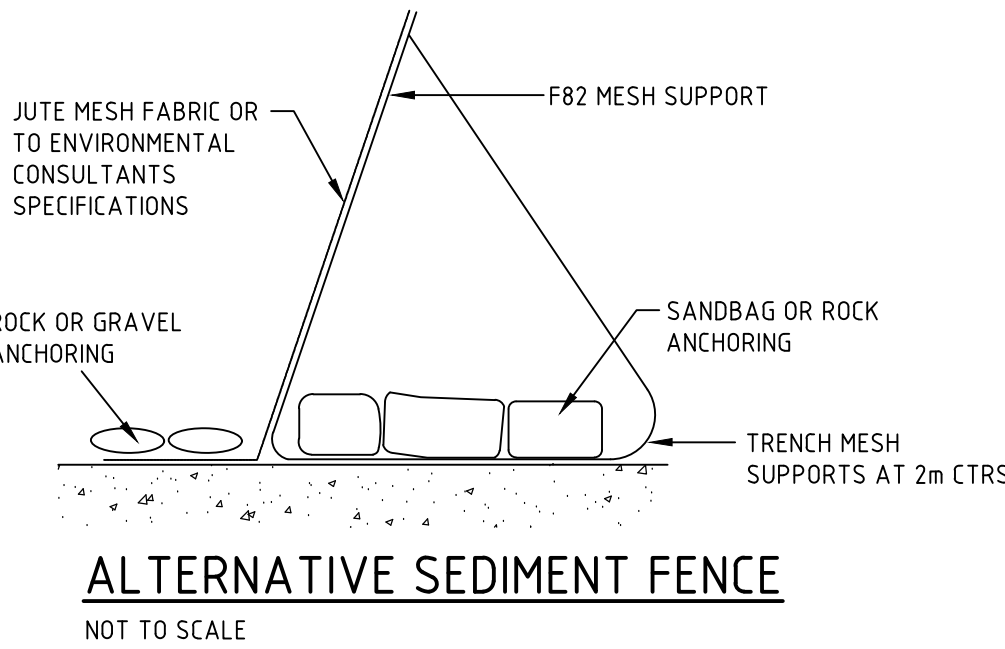


ALTERNATIVE 1

ALTERNATIVE 2



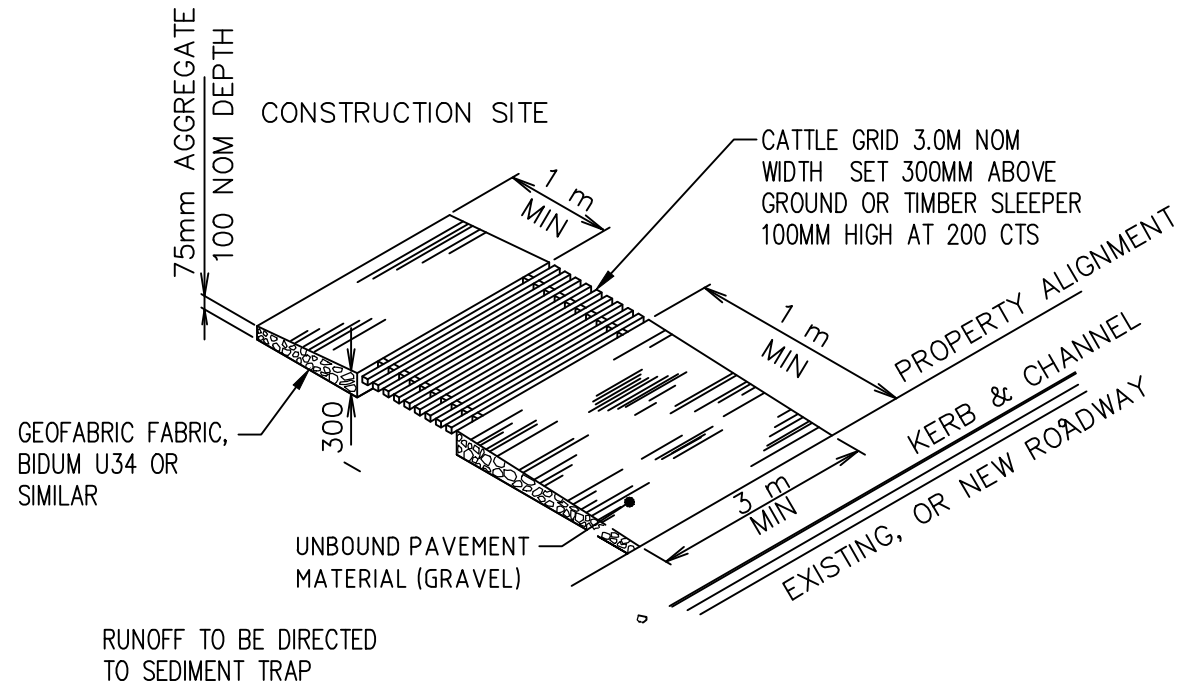
SEDIMENT FENCE
NOT TO SCALE



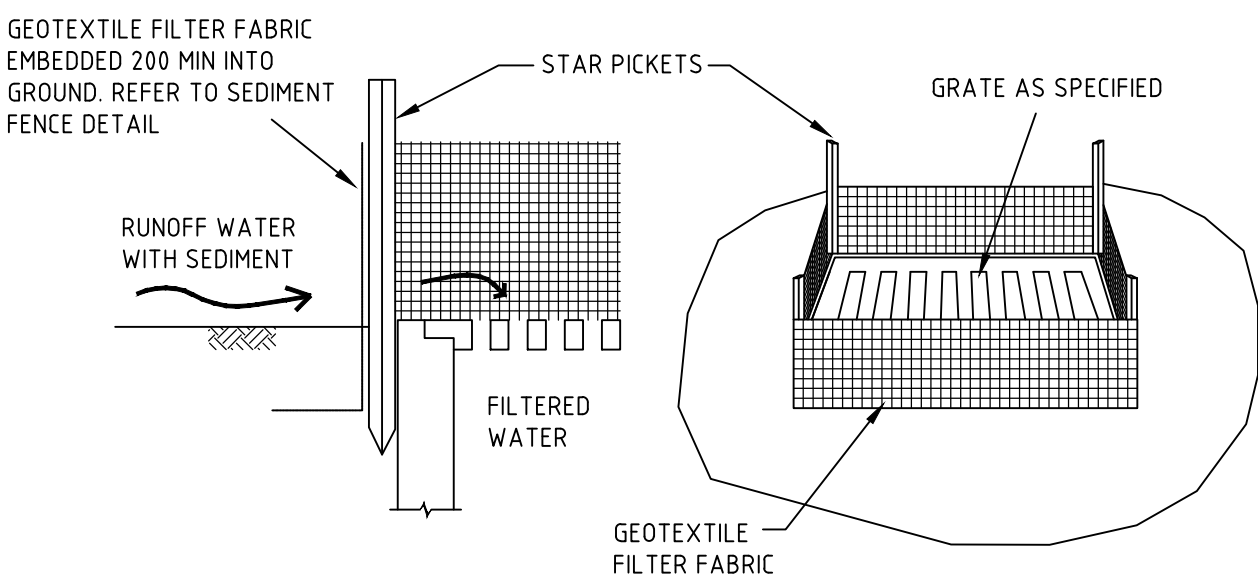
ALTERNATIVE SEDIMENT FENCE
NOT TO SCALE

ALTERNATIVE SEDIMENT FENCE NOTES

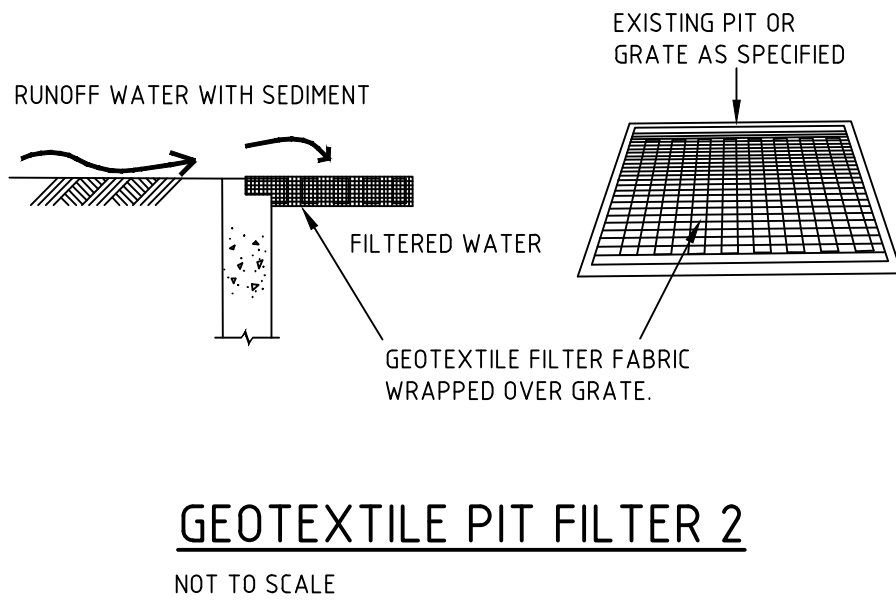
1. INSTALL THIS TYPE OF SEDIMENT FENCE WHEN USE OF SUPPORT POSTS IS NOT DESIRABLE OR NOT POSSIBLE. SUCH CONDITIONS MIGHT APPLY, FOR EXAMPLE, WHERE APPROVAL IS GRANTED FROM THE APPROPRIATE AUTHORITIES TO PLACE THESE FENCES IN HIGHLY SENSITIVE ESTUARINE AREAS.
2. USE BENT TRENCH MESH TO SUPPORT THE F82 WELDED MESH FACING AS SHOWN ON THE DRAWING ABOVE. ATTACH THE JUTE MESH TO THE WELDED MESH FACING USING UV-RESISTANT CABLE TIES.
3. STABILISE THE WHOLE STRUCTURE WITH SANDBAG OR ROCK ANCHORING OVER THE TRENCH MESH AND THE LEADING EDGE OF THE JUTE MESH. THE ANCHORING SHOULD BE SUFFICIENTLY LARGE TO ENSURE STABILITY OF THE STRUCTURE IN THE DESIGN STORM EVENT, USUALLY THE 10 YEAR EVENT.



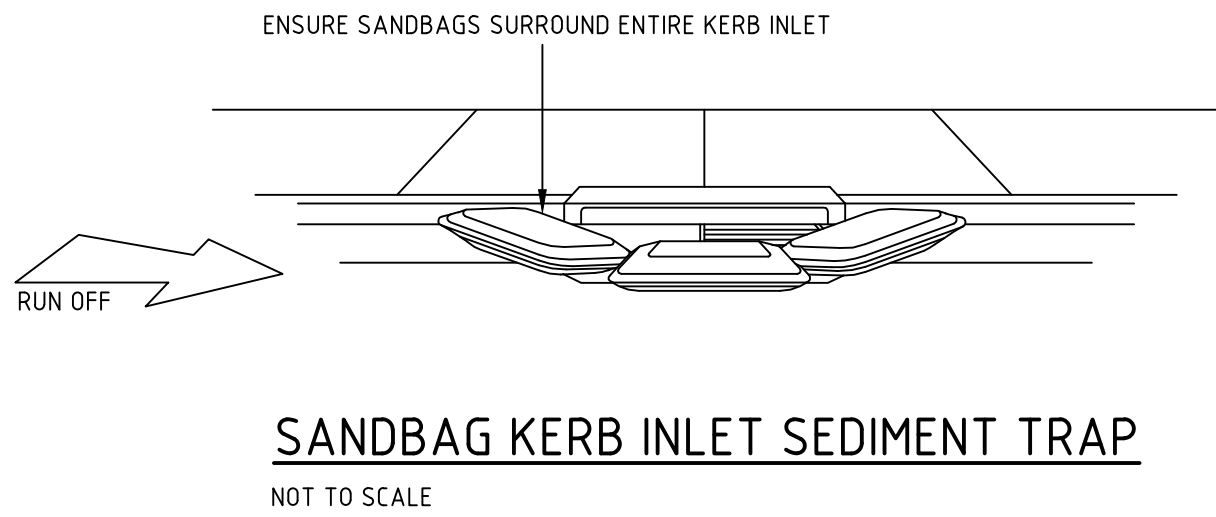
TEMPORARY CONSTRUCTION VEHICLE
ENTRY/EXIT SEDIMENT TRAP
NOT TO SCALE



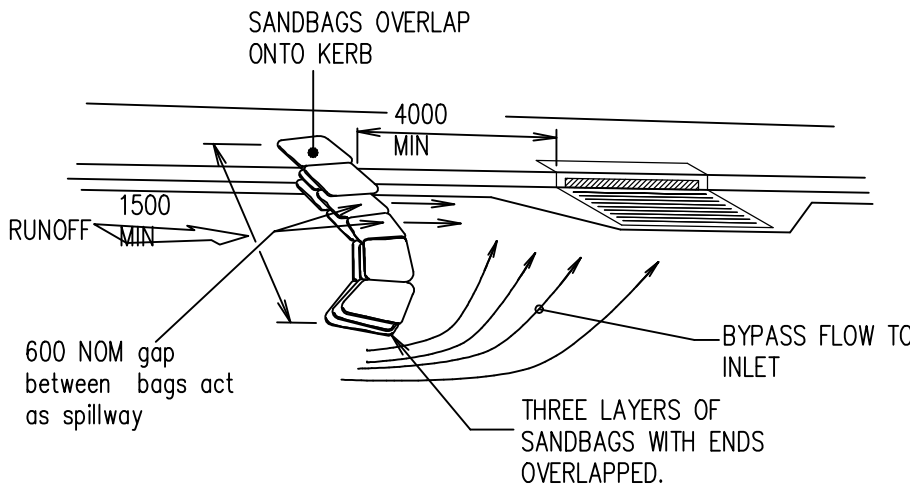
GEOTEXTILE PIT FILTER 1
NOT TO SCALE



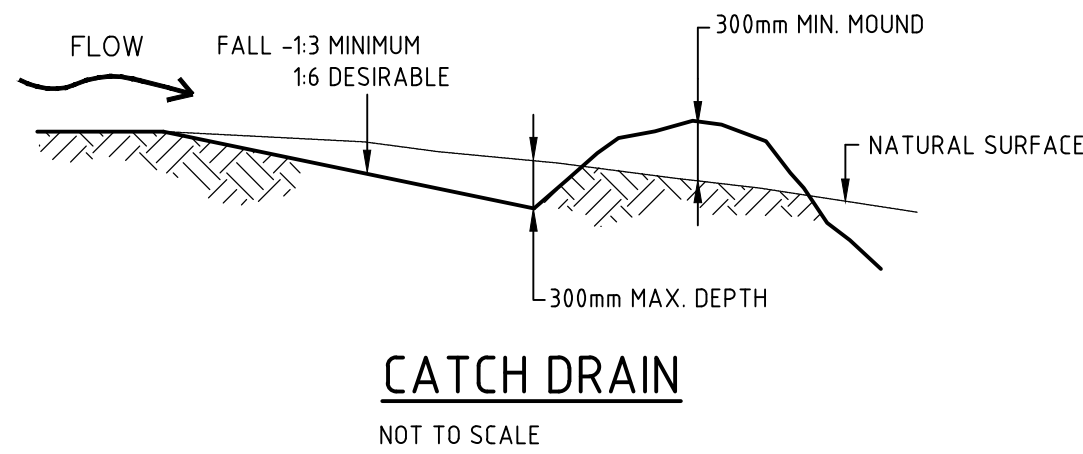
GEOTEXTILE PIT FILTER 2
NOT TO SCALE



SANDBAG KERB INLET SEDIMENT TRAP
NOT TO SCALE



ON GRADE KERB INLET SEDIMENT TRAP
NOT TO SCALE



CATCH DRAIN
NOT TO SCALE

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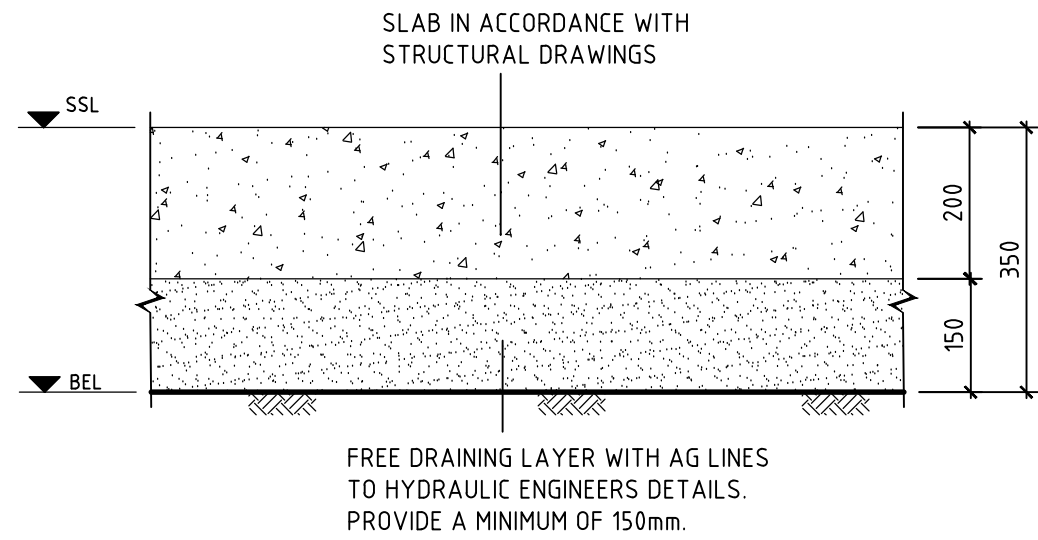
BONACCI
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PROJECT
**NEW WESTERN SYDNEY UNIVERSITY
BANKSTOWN CITY CAMPUS**
74 RICKARD ROAD ALONG WITH A PORTION
OF 375 CHAPEL ROAD

DRAWING TITLE
**SEDIMENT AND EROSION
CONTROL DETAILS**

NORTH			
SCALE NTS			
JOB No.	DRAWN	CHECKED	DATE
1097901C	PA	-	-
DRAWING No.			REVISION
C00-06			06

FOR ILLUSTRATIVE PURPOSE ONLY.
BULK EARTHWORKS SUBJECT TO SEPARATE DEVELOPMENT APPLICATION



BUILDING BULK EXCAVATION DETAIL

SCALE 1:10

BULK EARTHWORKS LEGEND

- EXTENT OF CUT TO BULK EARTHWORKS LEVEL
BUILDING CUT VOLUME = 25510 m³
- FINISHED BULK EXCAVATION LEVEL

NOTE

- VOLUMES ARE APPROXIMATE ONLY, WHICH ARE IN PLACE AND DO NOT INCORPORATE BULKING FACTORS AND OVER EXCAVATION.
- GROUND WATER SEEPAGE MAY OCCUR IN EXCAVATED AREAS. DE-WATERING MAY BE REQUIRED IN THIS INSTANCE.

EXCAVATION NOTES

- THIS DRAWING ONLY DETAILS BULK EARTHWORKS ASSOCIATED WITH THE BUILDING SLAB (IGNORING STRUCTURAL FOOTINGS, BEAMS AND COLUMNS) AND DRIVEWAY ACCESS RAMP.
- PERMANENT SHORING WALLS ARE ASSUMED TO BE PROVIDED AROUND PERIMETER OF BASEMENT.
- SEDIMENT & EROSION CONTROL MEASURES IN ACCORDANCE WITH LANDCOM "BLUE BOOK" MUST BE IMPLEMENTED DURING CONSTRUCTION TO PREVENT SEDIMENT LADEN WATER LEAVING THE SITE.
- 350mm ZONE BELOW FINISHED BASEMENT SLAB FINISH LEVEL HAS BEEN ALLOWED FOR (NOMINAL 200mm THICK SLAB AND 150mm DRAINAGE LAYER).
- 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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REV. DETAILS
01 PRELIMINARY DRAFT ISSUE 25.02.19
02 SCHEMATIC DESIGN 12.03.19
03 FOR SEARS 21.06.19
04 ISSUED FOR DETAILED DESIGN 28.06.19
05 FOR SEARS 19.07.19
06 FOR SEARS 23.08.19

DATE

CLIENT

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PROJECT
**NEW WESTERN SYDNEY UNIVERSITY
BANKSTOWN CITY CAMPUS**
74 RICKARD ROAD ALONG WITH A PORTION
OF 375 CHAPEL ROAD

DRAWING TITLE
BULK EARTHWORKS PLAN

DETAILED DESIGN

JOB No. 1097901C DRAWN MS CHECKED -

DRAWING No.
C00-10

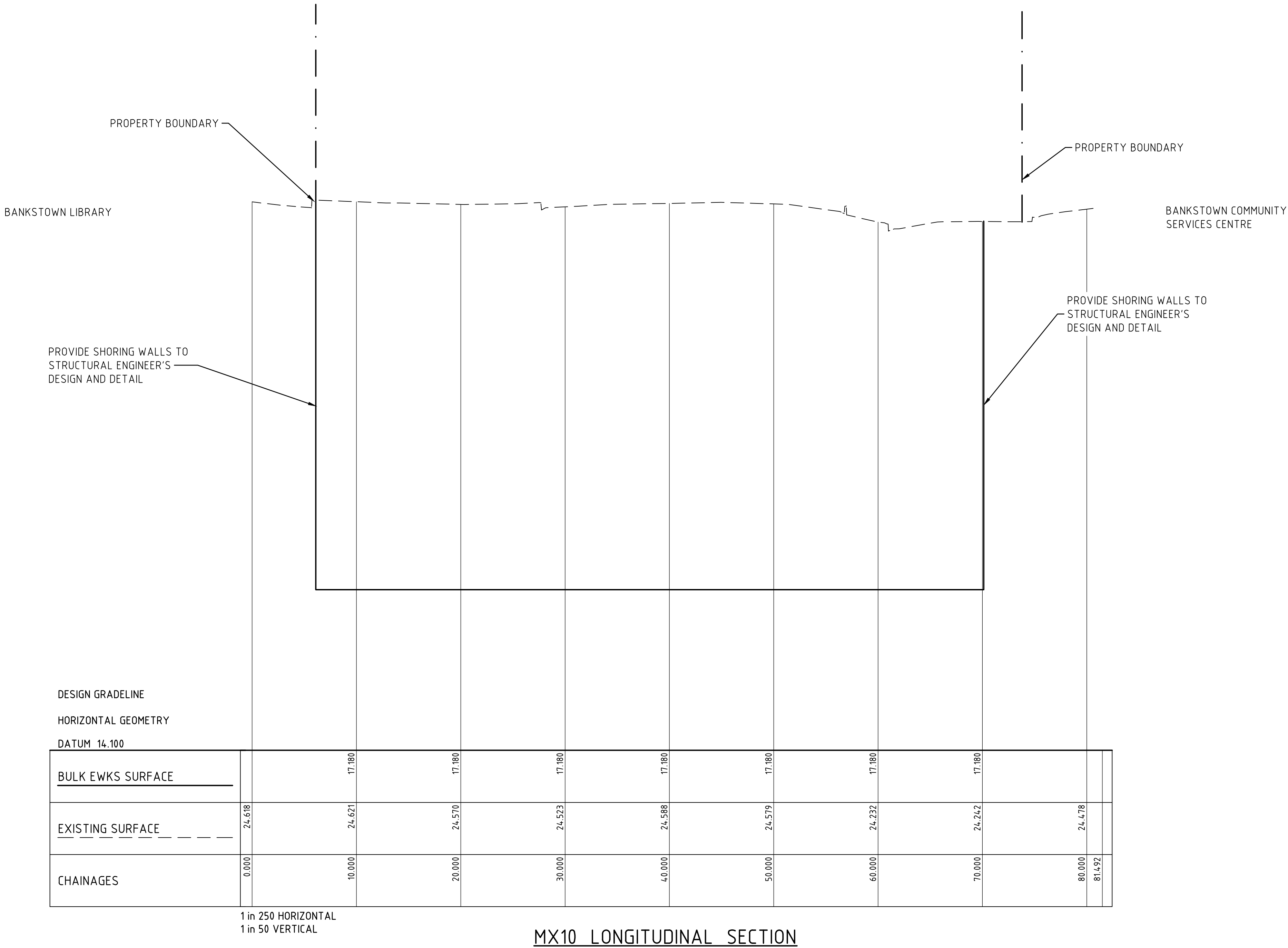
NORTH

SCALE
1:200@ A1

DATE

REVISION

06



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BULK EARTHWORKS SUBJECT TO SEPARATE DEVELOPMENT APPLICATION

A1 841 v.254
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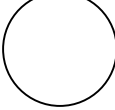
PROJECT

**NEW WESTERN SYDNEY UNIVERSITY
BANKSTOWN CITY CAMPUS**
74 RICKARD ROAD ALONG WITH A PORTION
OF 375 CHAPEL ROAD

DRAWING TITLE

**BULK EARTHWORKS
LONGITUDINAL SECTIONS
SHEET 1**

NORTH



SCALE

NOTED

JOB No.

1097901C

DRAWN

MS

CHECKED

-

DATE

-

DRAWING No.

C00-20

REVISION

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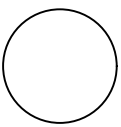
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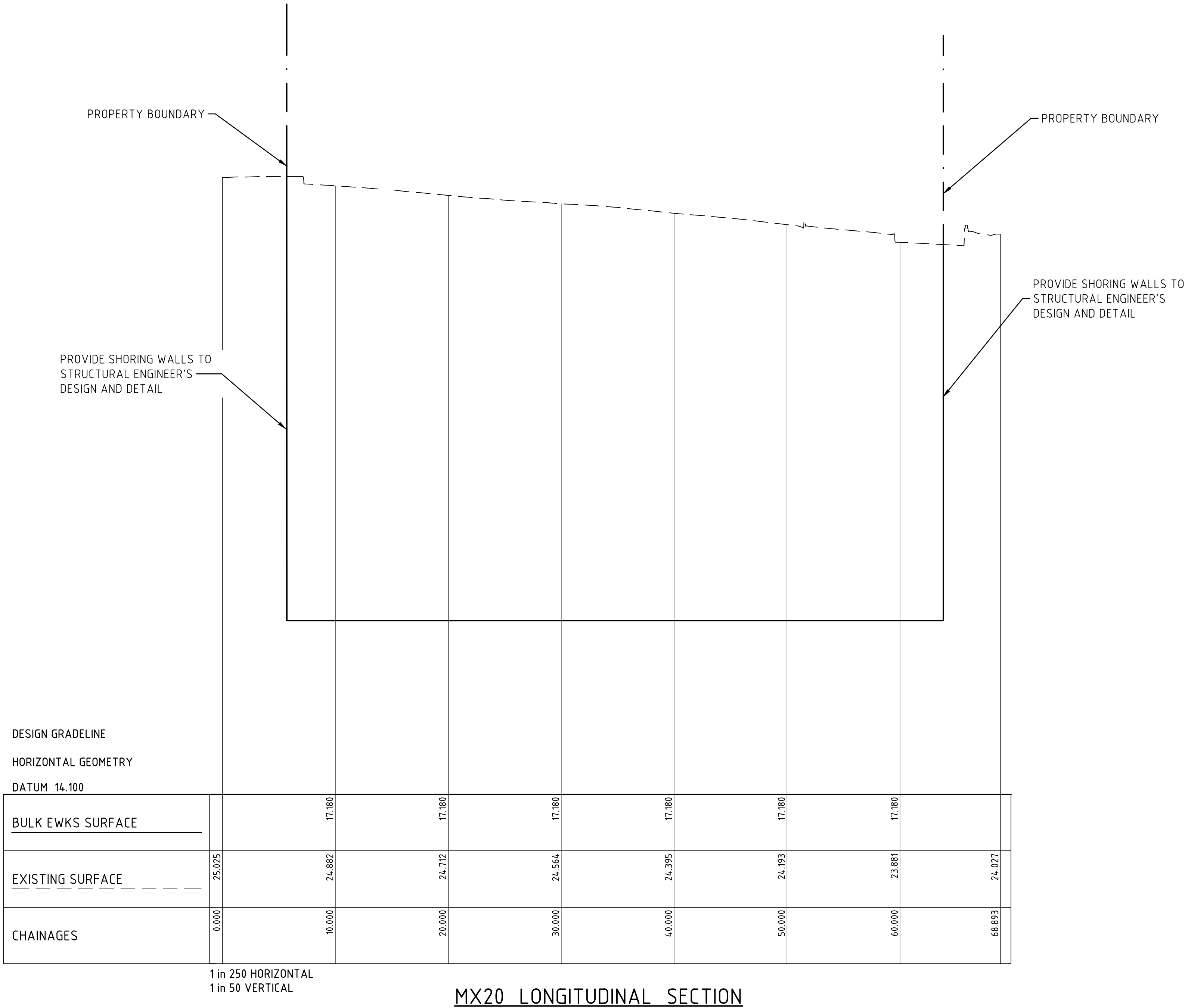
DRAWING TITLE
**BULK EARTHWORKS
LONGITUDINAL SECTIONS
SHEET 2**

NORTH



SCALE
NOTED

JOB No.	DRAWN	CHECKED	DATE
1097901C	MS	-	-
DRAWING No.	REVISION		
C00-21			06



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BULK EARTHWORKS SUBJECT TO SEPARATE DEVELOPMENT APPLICATION



LEGEND

- EX SURFACE CONTOUR
- EX TREE
- EX STORMWATER DRAINAGE LINE
- EX SEWER LINE
- EX WATER MAIN
- EX GAS LINE
- EX TELECOMMUNICATIONS LINE
- EX ELECTRICAL LINE
- SURFACE INLET PIT
- STORMWATER LINE
- FINISHED SURFACE LEVEL
- DESIGN CONTOURS
- KERB ONLY
- FLUSH KERB
- VARIABLE HEIGHT KERB
- EX STORMWATER DRAINAGE LINE TO BE DEMOLISHED
- BOLLARD
- BOUNDARY

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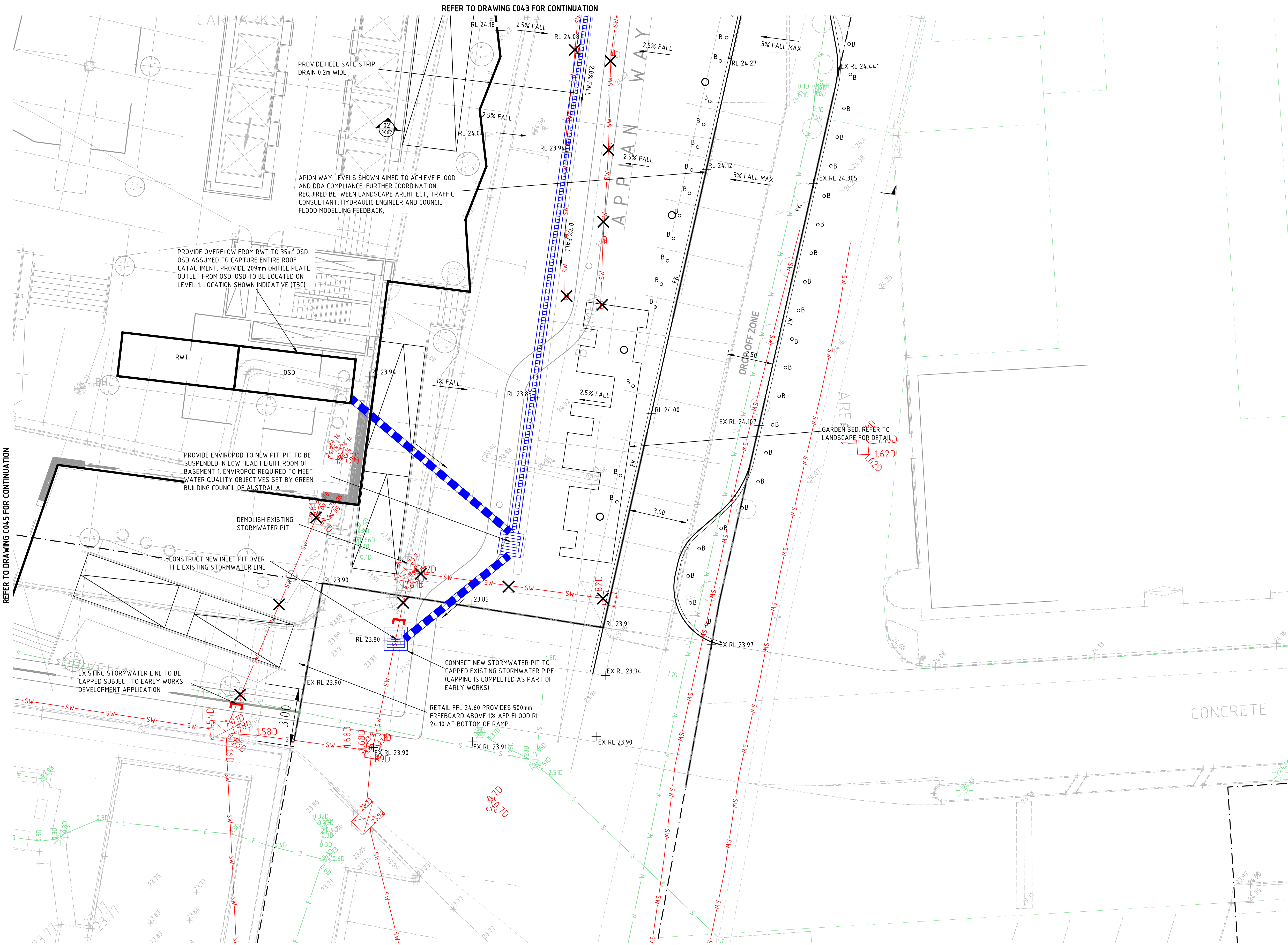
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PROJECT
**NEW WESTERN SYDNEY UNIVERSITY
BANKSTOWN CITY CAMPUS**
74 RICKARD ROAD ALONG WITH A PORTION OF 375 CHAPEL ROAD
DRAWING TITLE
SITWORKS AND STORMWATER DRAINAGE PLAN-SHEET 1

DETAILED DESIGN

JOB No.	DRAWN	CHECKED	DATE
1097901C	PA	-	-
DRAWING No.			REVISION
C00-41			06



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REV. DETAILS
01 FOR SEARS
02 FOR SEARS

DATE
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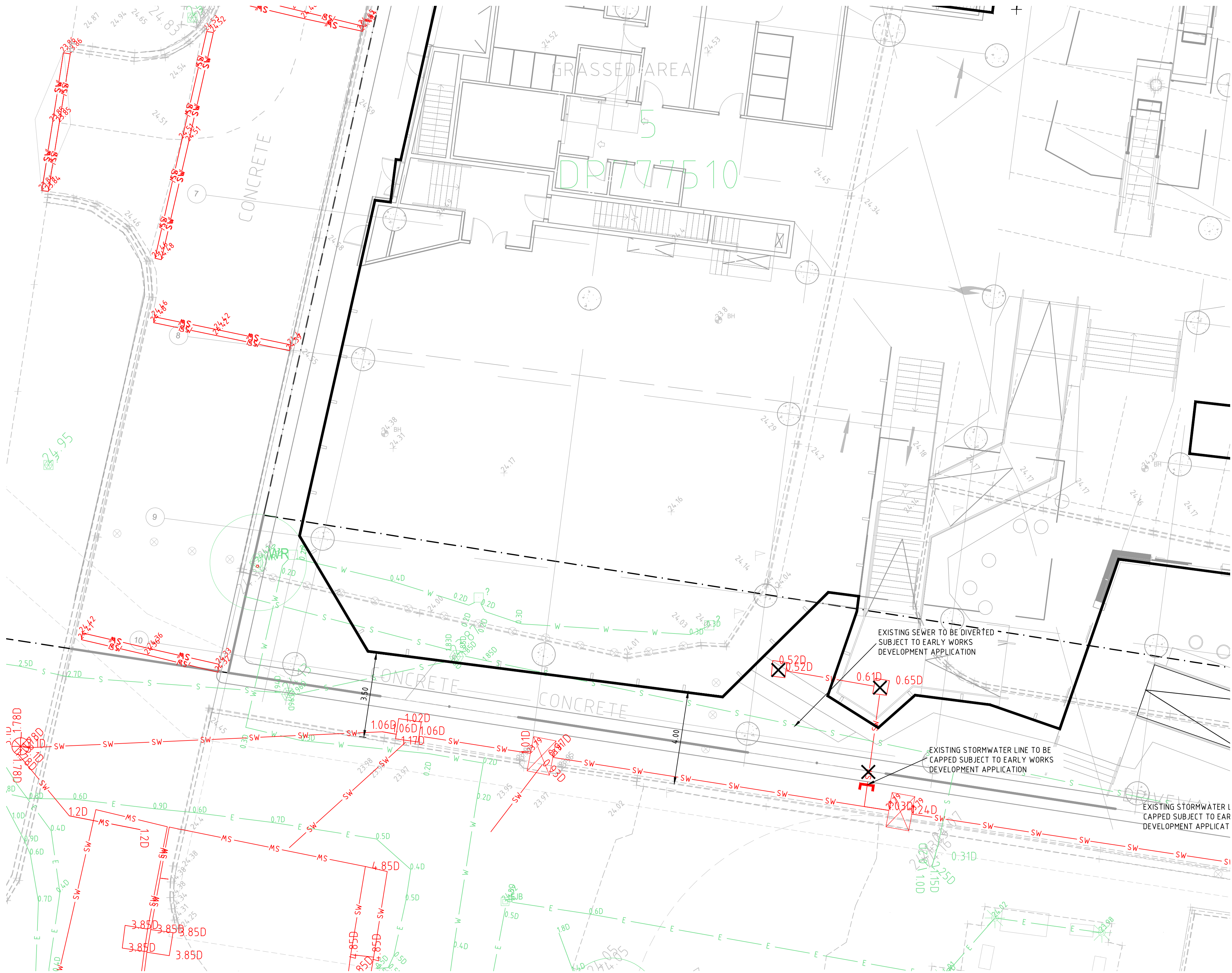
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74 RICKARD ROAD ALONG WITH A PORTION
OF 375 CHAPEL ROAD

DRAWING TITLE
**SITWORKS AND STORMWATER
DRAINAGE PLAN-SHEET 3**

DETAILED DESIGN

SCALE
1:100 @ A1

JOB No.	DRAWN	CHECKED	DATE
1097901C	PA	-	-
DRAWING No.	REVISION		
C00-43			02



- LEGEND**
- EX SURFACE CONTOUR
 - EX TREE
 - EX STORMWATER DRAINAGE LINE
 - EX SEWER LINE
 - EX WATER MAIN
 - EX GAS LINE
 - EX TELECOMMUNICATIONS LINE
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BANKSTOWN CITY CAMPUS
74 RICKARD ROAD ALONG WITH A PORTION OF 375 CHAPEL ROAD

DRAWING TITLE
SITeworks AND STORMWATER DRAINAGE PLAN-SHEET 4

DETAILED DESIGN

SCALE
1:100 @ A1

DATE
-

REVISION
-

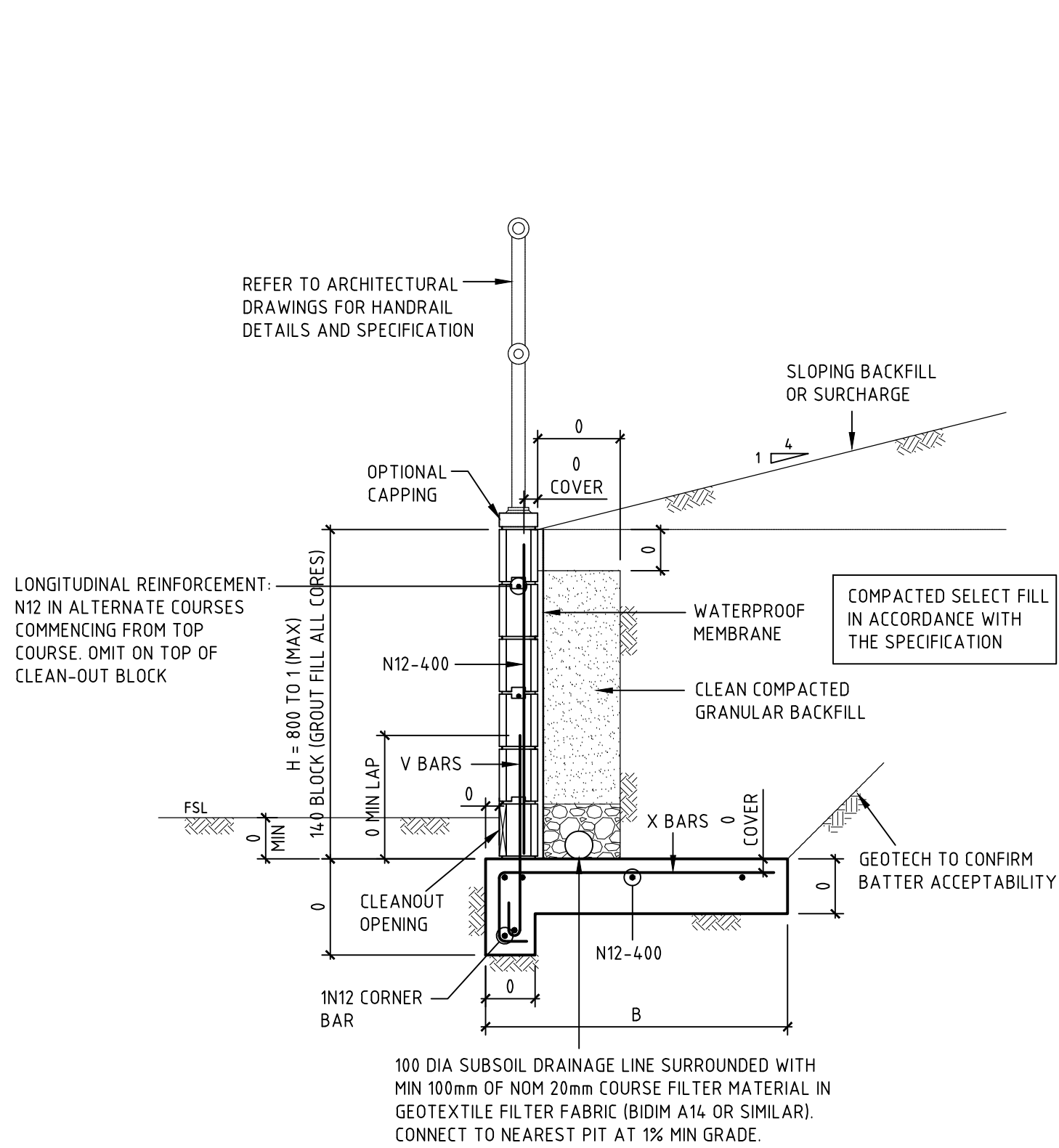
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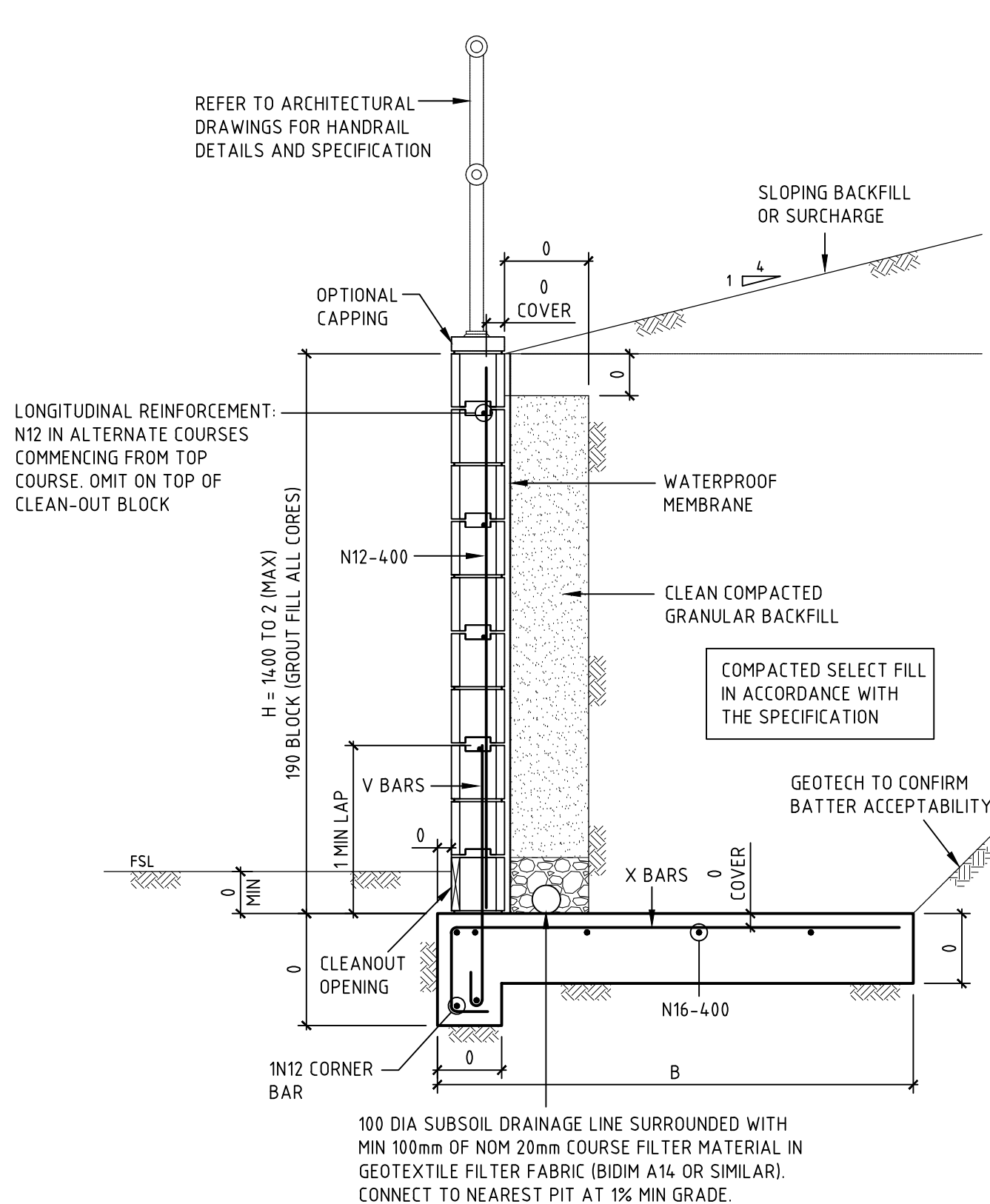
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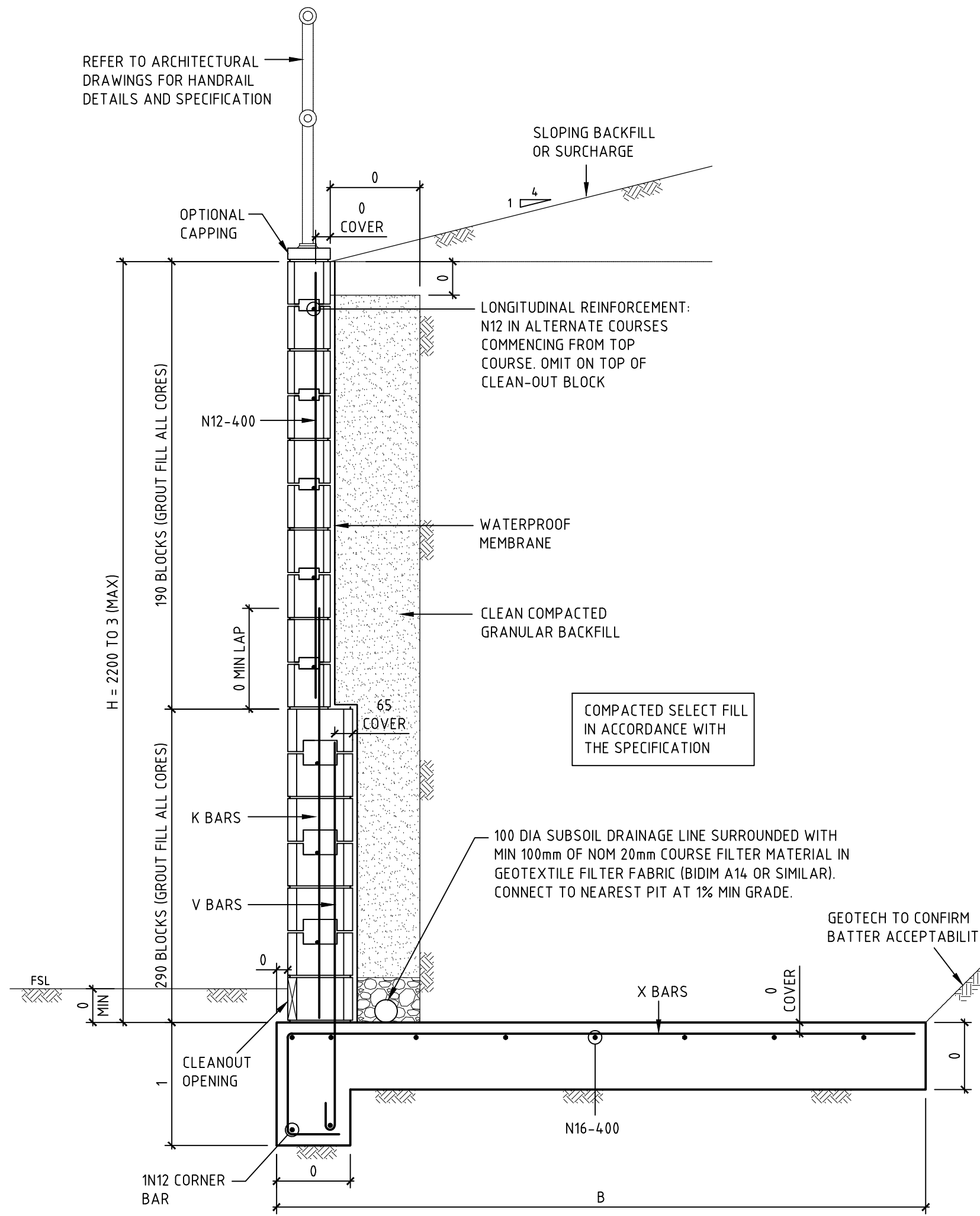


BLOCK RETAINING WALL (MAX 1200 HIGH)
SCALE 1:20

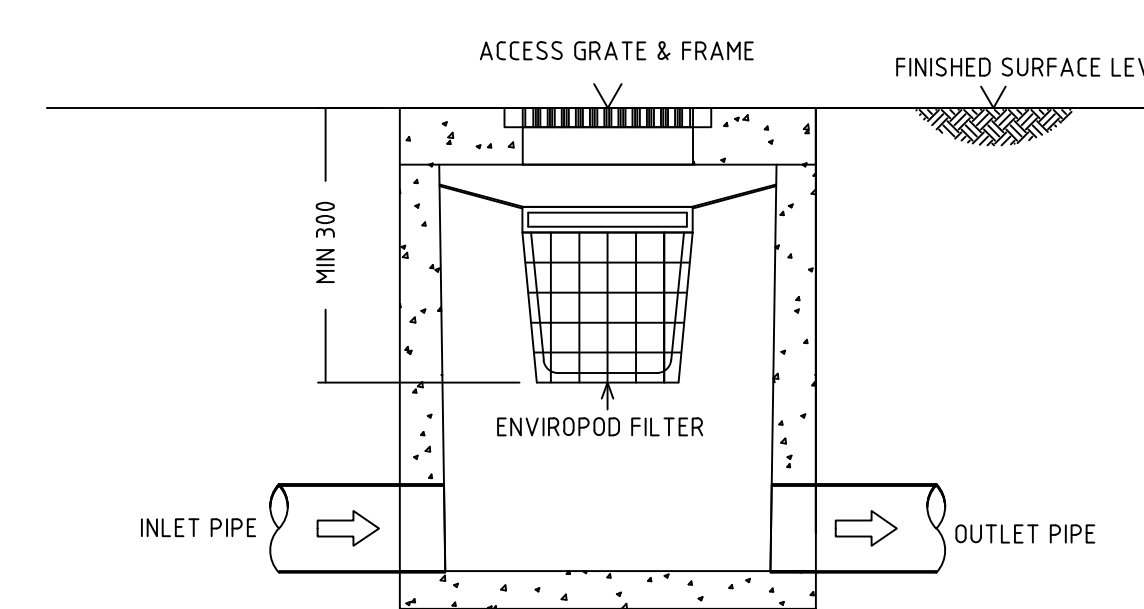
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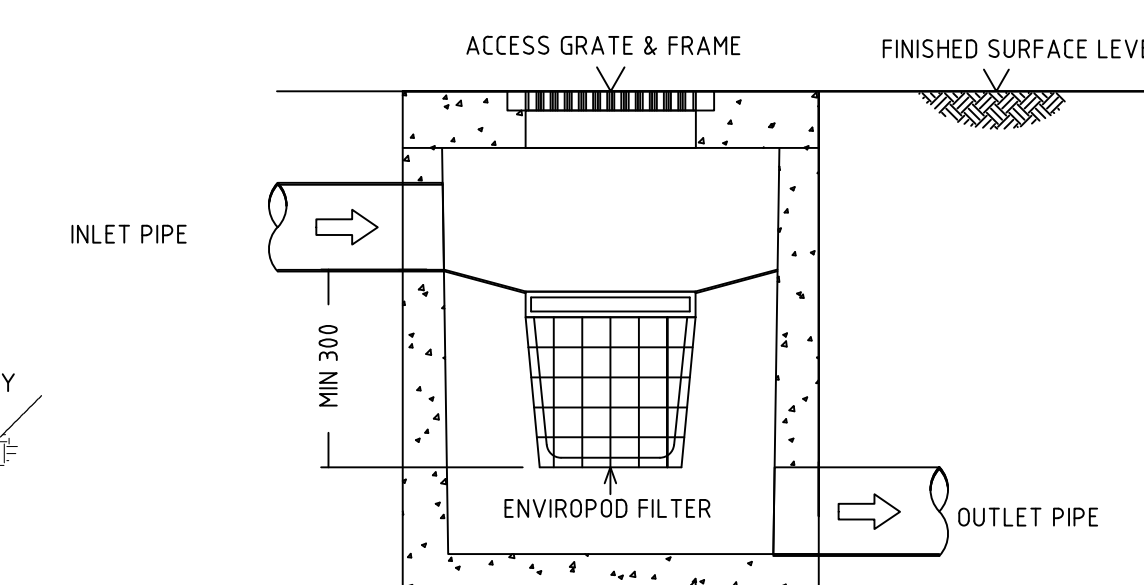
BLOCK RETAINING WALL (MAX 2000 HIGH)
SCALE 1:20



BLOCK RETAINING WALL (MAX 3400 HIGH)
SCALE 1:20



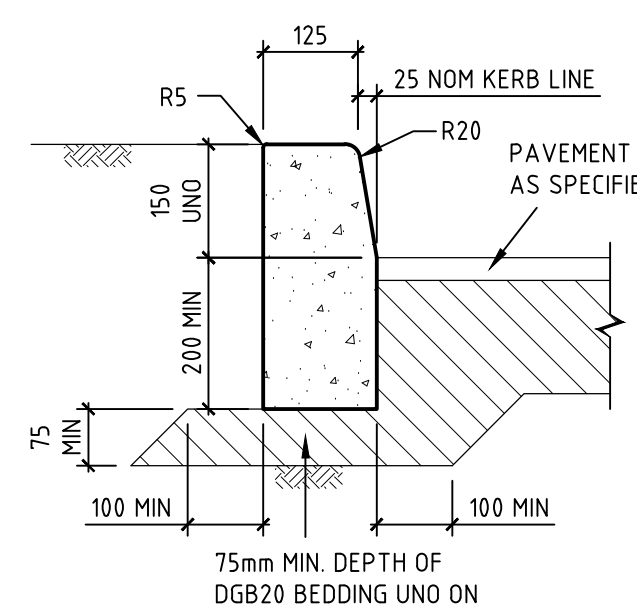
STANDARD ENVIROPOD CONFIGURATION SECTION



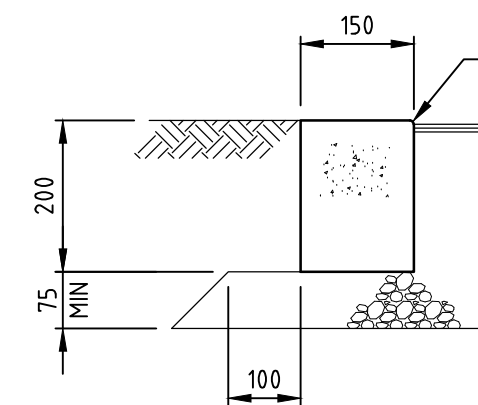
DROP PIPE ENVIROPOD CONFIGURATION SECTION

TYPICAL ENVIROPOD PIT DETAILS

BLOCK RETAINING WALL BASE TYPE 1							
WALL HEIGHT				REINFORCEMENT		BASE DIMENSIONS	
TOTAL HEIGHT (mm) H	HEIGHT OF BLOCKWORK			X-BARS AND V-BARS	K-BARS	WIDTH, B (mm) WITH FOLLOWING BACKFILL CONDITIONS	
	150 SERIES	200 SERIES	300 SERIES			LEVEL	MAX 1:4 SLOPE
800	800	-	-	N12-400	-	800	1000
1000	1000	-	-	N12-400	-	1000	1200
1200	1200	-	-	N12-400	-	1100	1500
1400	-	1400	-	N12-400	-	1300	1700
1600	-	1600	-	N16-400	-	1400	2000
1800	-	1800	-	N16-400	-	1600	2200
2000	-	2000	-	N16-200	-	1700	2500
2200	-	1400	800	N16-400	N16-400	1900	2800
2400	-	1600	800	N16-400	N16-400	2000	3100
2600	-	1600	1000	N20-400	N20-400	2200	3300
2800	-	1800	1000	N20-400	N20-400	2400	3600
3000	-	2000	1000	N16-200	N16-200	2600	3900
3200	-	2000	1200	N20-200	N16-200	2800	4200
3400	-	2000	1400	N20-200	N16-200	2900	4500



KERB ONLY (KO)
SCALE 1:10



FLUSH KERB (FK)
SCALE 1:10

FK

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REV. DETAILS
01 PRELIMINARY DRAFT ISSUE 25.02.19
02 SCHEMATIC DESIGN 12.03.19
03 FOR SEARS 21.06.19
04 ISSUED FOR DETAILED DESIGN 28.06.19
05 FOR SEARS 19.07.19
06 FOR SEARS 23.08.19

DATE

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PROJECT
**NEW WESTERN SYDNEY UNIVERSITY
BANKSTOWN CITY CAMPUS**
74 RICKARD ROAD ALONG WITH A PORTION
OF 375 CHAPEL ROAD

DRAWING TITLE
**SITWORKS AND STORMWATER
DRAINAGE DETAILS SHEET 1**

DETAILED DESIGN

JOB No. 1097901C

DRAWN PA

CHECKED -

DRAWING No. C00-60

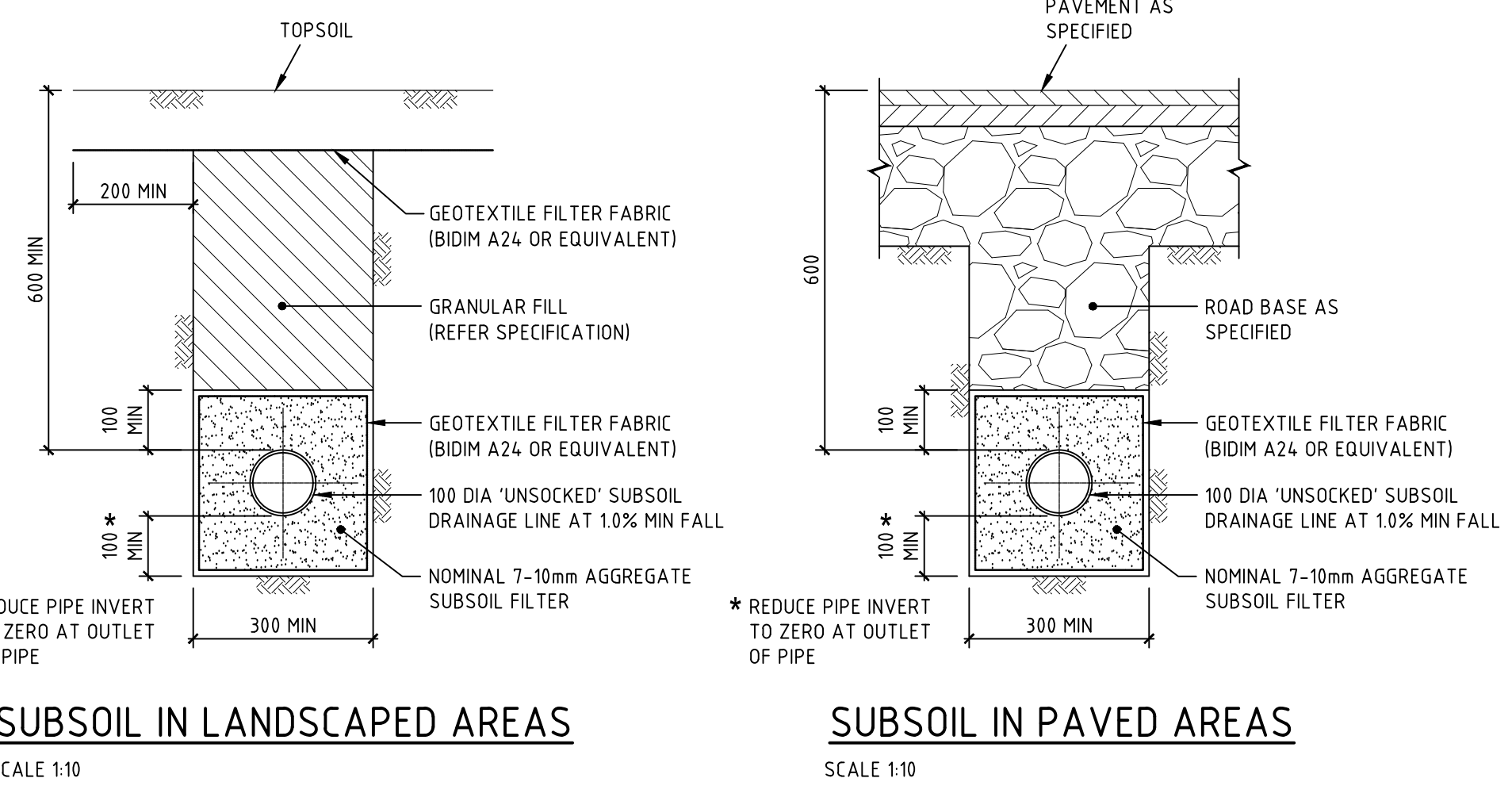
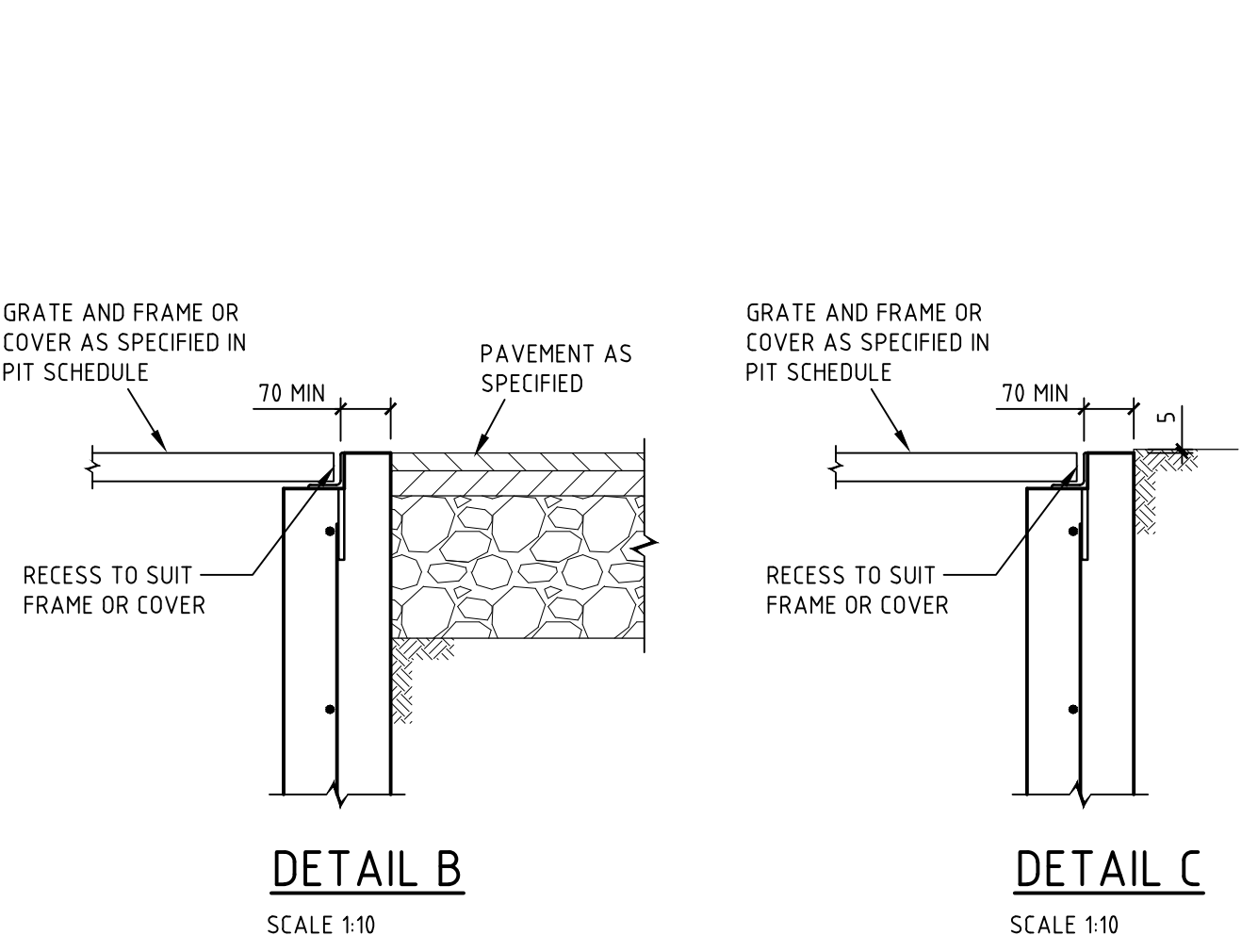
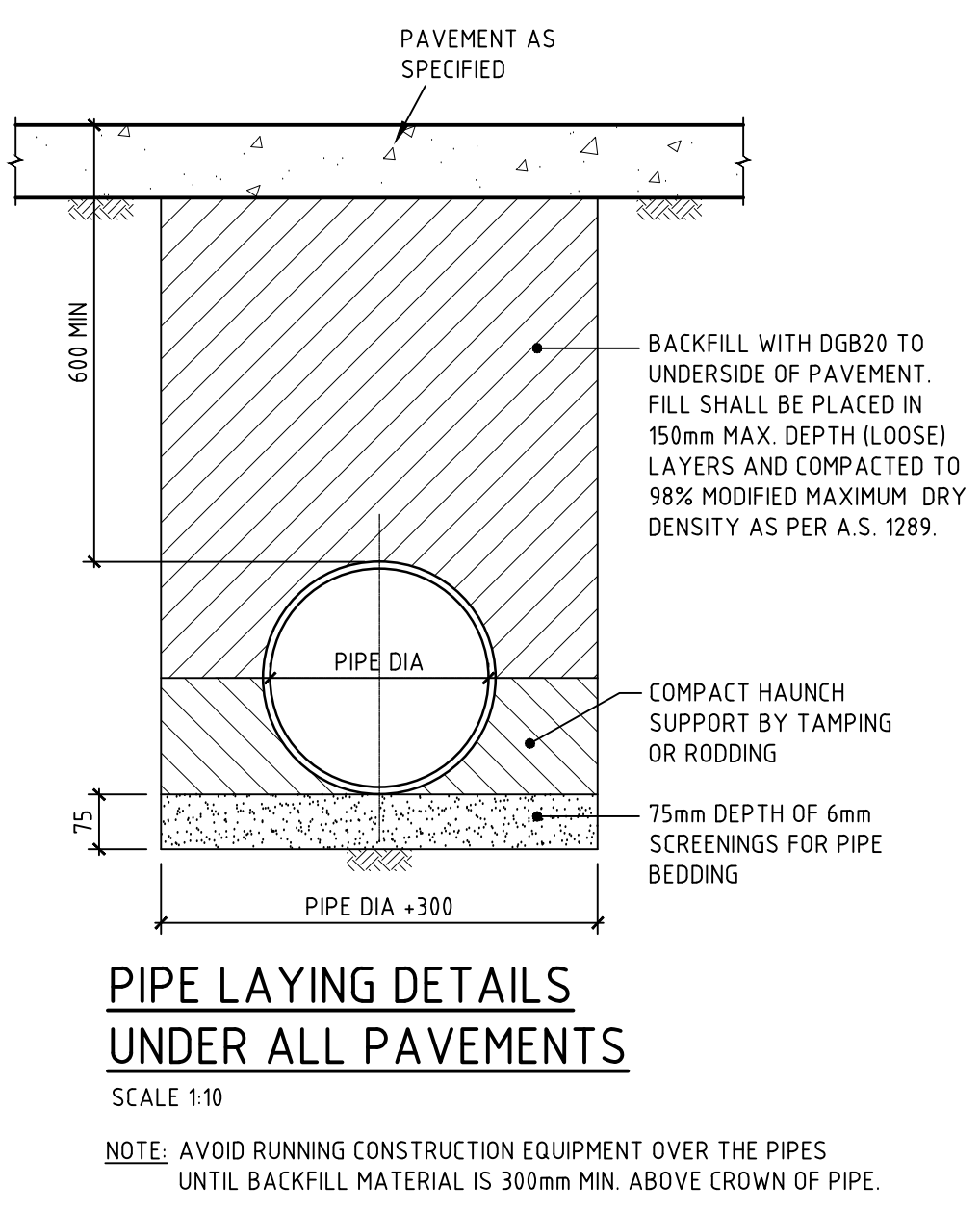
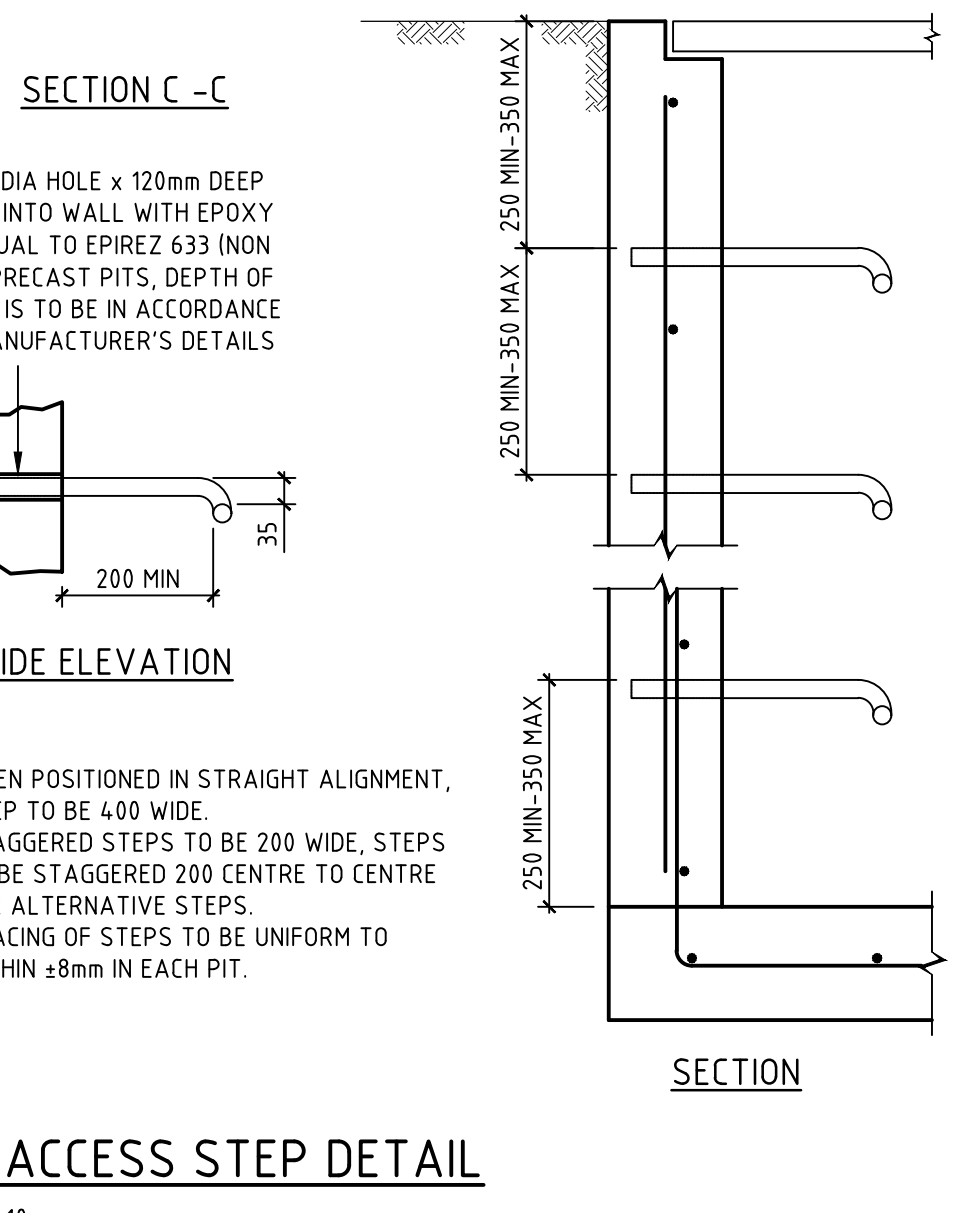
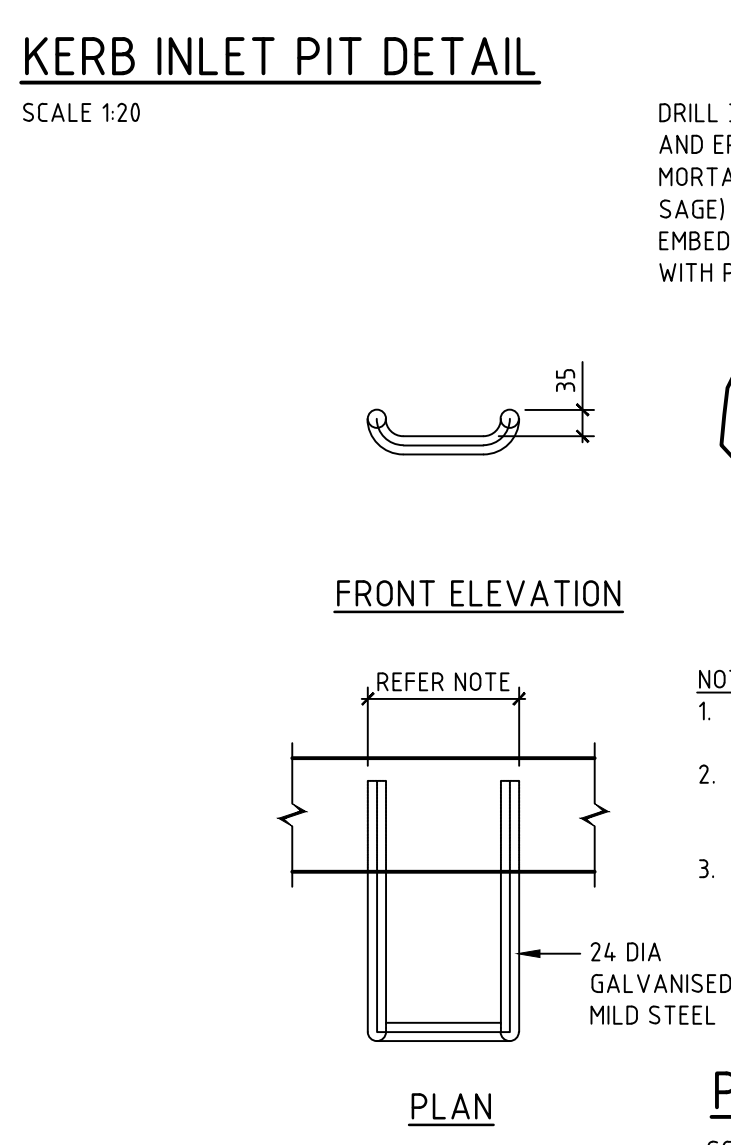
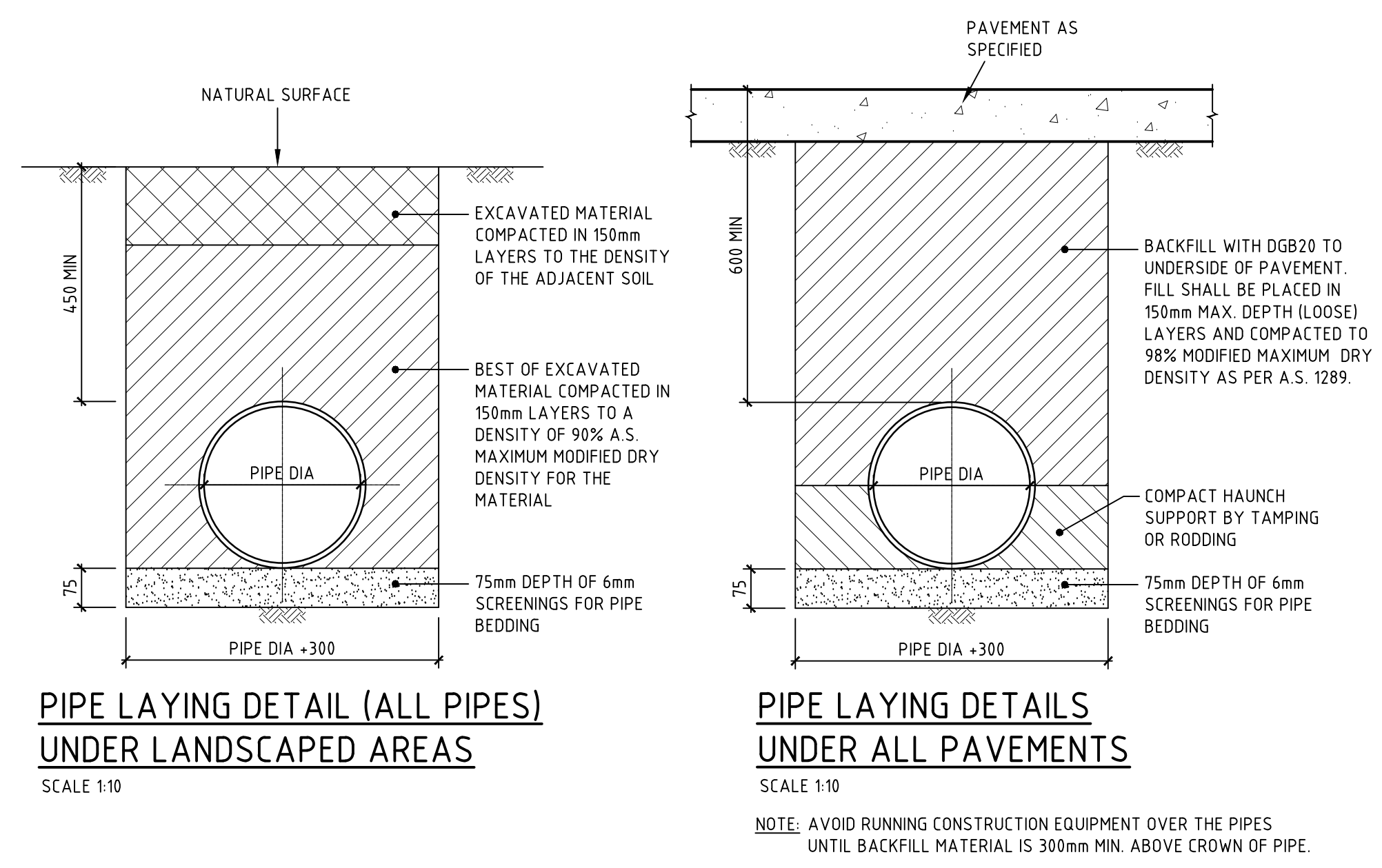
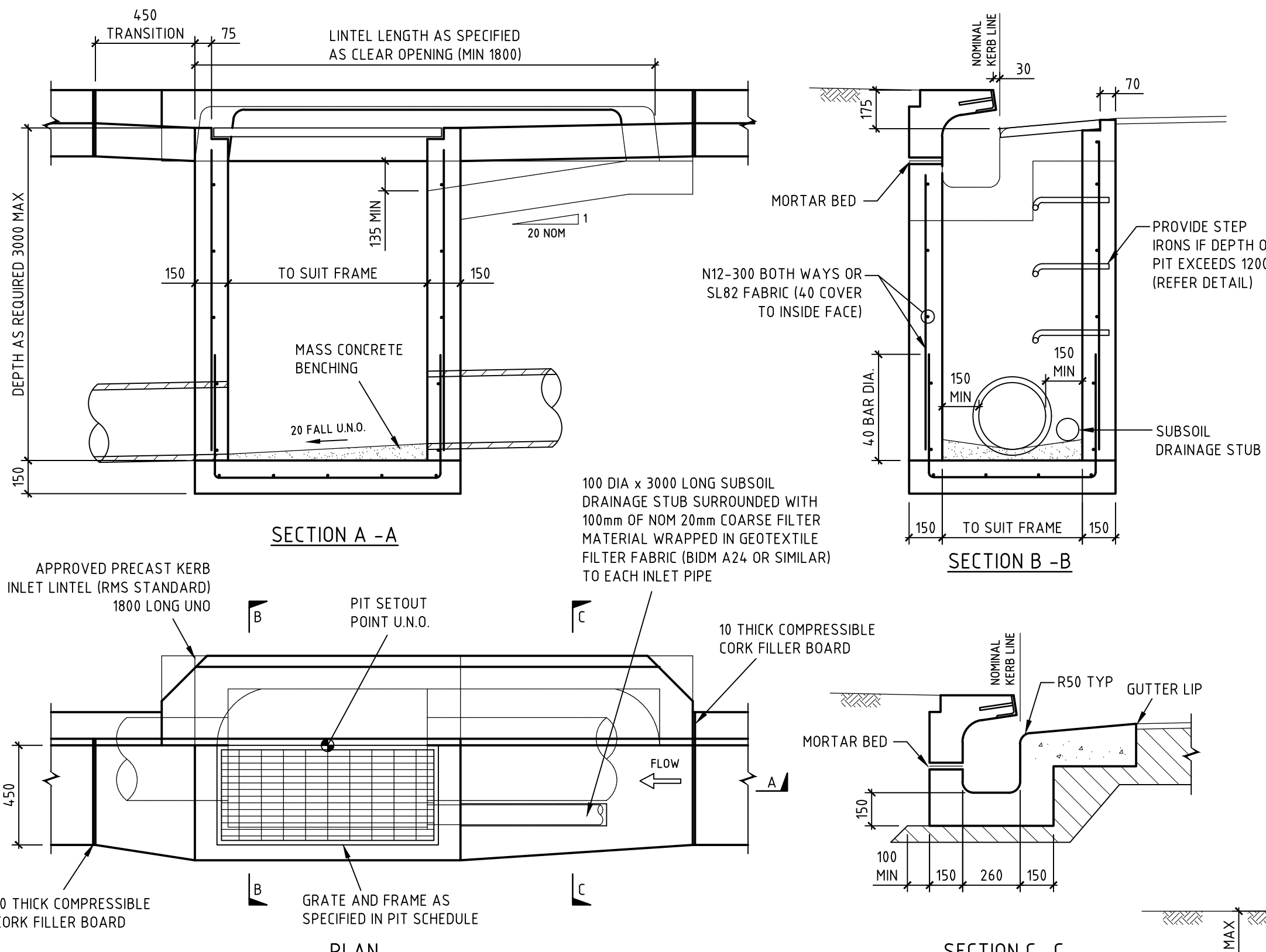
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REVISION

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DRAWING No.			REVISION	
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REV.	DETAILS	DATE
01	FOR SEARS	19.07.19
02	FOR SEARS	23.08.19

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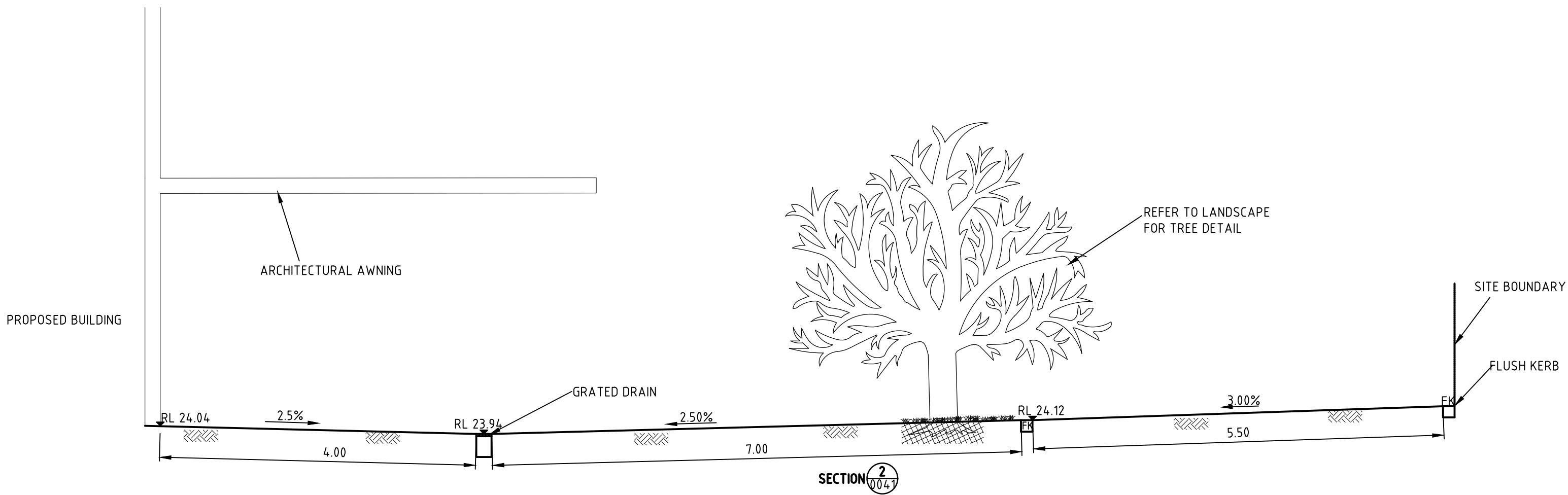
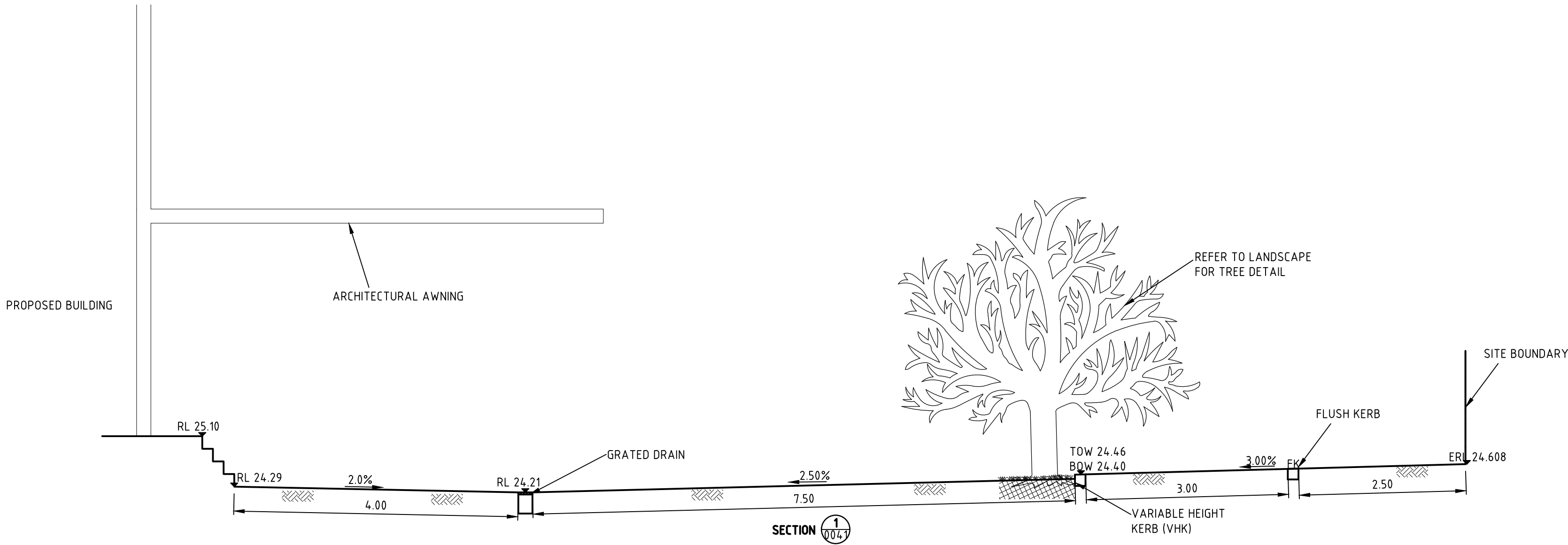


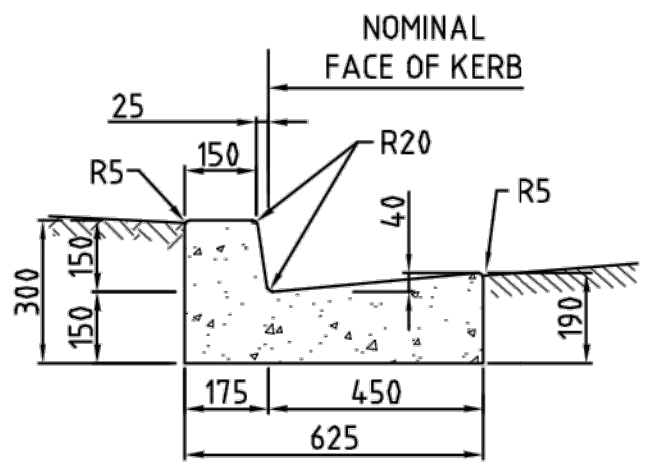
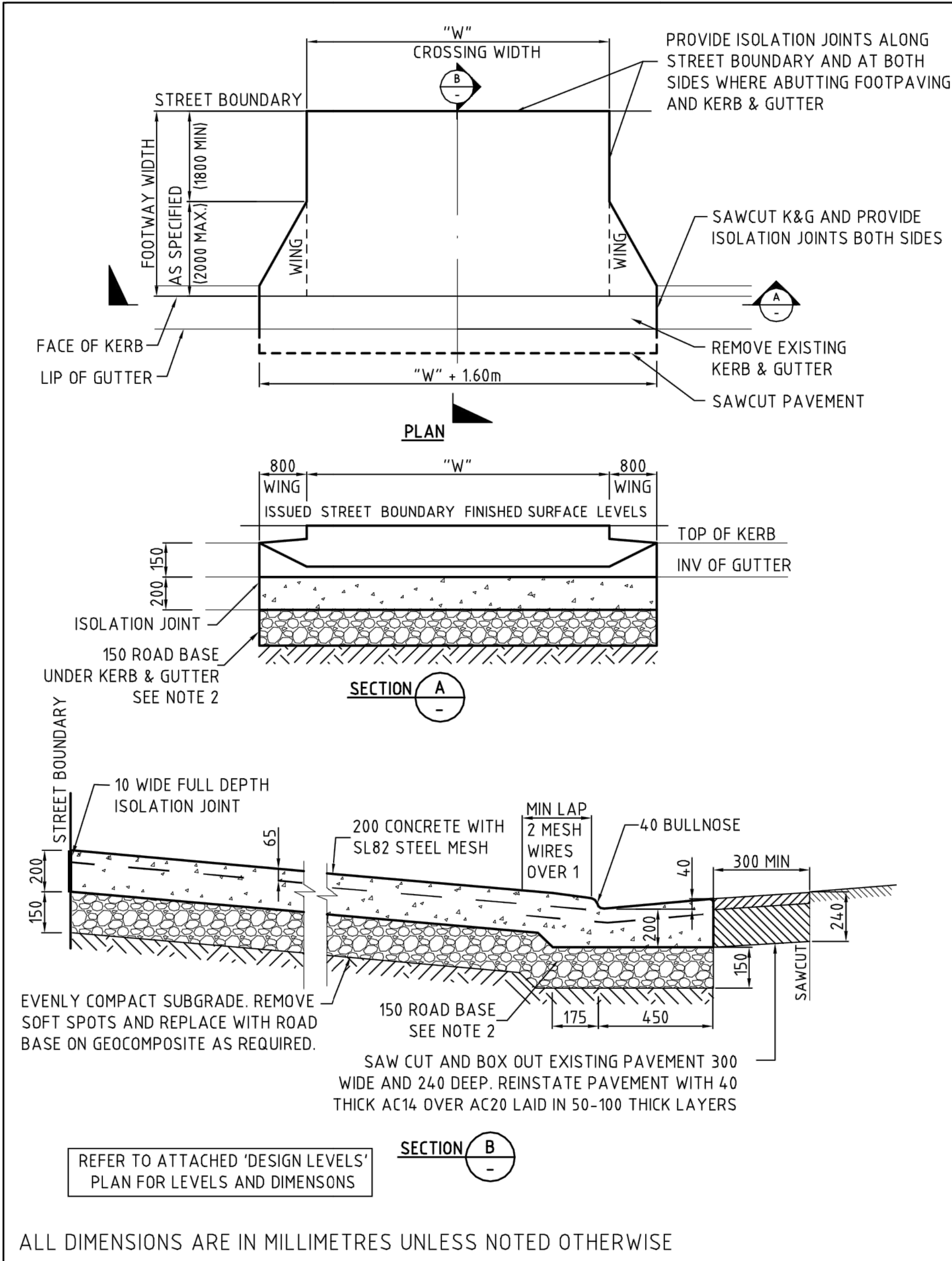
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PROJECT
**NEW WESTERN SYDNEY UNIVERSITY
BANKSTOWN CITY CAMPUS**
74 RICKARD ROAD ALONG WITH A PORTION
OF 375 CHAPEL ROAD

DRAWING TITLE
**APPIAN WAY
LONG SECTION**

DETAILED DESIGN			NORTH
SCALE NOTED			
JOB No.	DRAWN	CHECKED	DATE
1097901C	PA	-	-
DRAWING No.			REVISION
C00-62			02

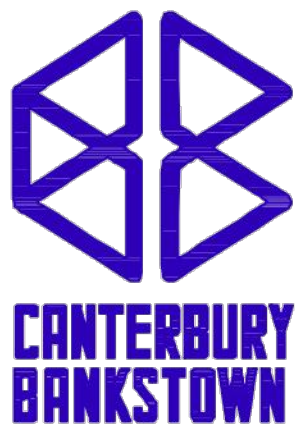




STANDARD KERB & GUTTER

NOTES :

- VEHICULAR FOOTWAY CROSSING LEVELS AND DIMENSIONS TO BE IN ACCORDANCE WITH DETAILED DRAWING ISSUED BY COUNCIL
- ROAD BASE MATERIAL IS TO BE CRUSHED ROCK GRADED TO DGB20, CRUSHED CONCRETE GRADED TO DGS20, OR GRADED RECYCLED ASPHALT WITH MAX. PARTICLE SIZE OF 20.
- CONCRETE: STRENGTH GRADE N32, 20mm MAX SIZE AGGREGATE, IN ACCORDANCE WITH AS3600
- RMS 40MPa SP40H CONCRETE MIX (WITH <0.8% CaCl2) CAN BE USED TO ALLOW TRAFFIC AFTER 12 HOURS. CaCl2 IS CORROSIVE AND ALL STEEL MESH AND DOWELS MUST BE GALVANISED.
- ASPHALT HOTMIX TO BE SUPPLIED AND COMPACTED AT A MINIMUM TEMPERATURE OF 140°C IN ACCORDANCE WITH AS2150. (COLD MIX NOT PERMITTED).
- ISOLATION JOINTS SHALL CONSIST OF FULL DEPTH 10MM THICK COMPRESSIBLE FILLER. EITHER BITUMEN IMPREGNATED FIBREBOARD OR CLOSED CELL POLYETHYLENE FOAM SEALED WITH 10x10 POLYURETHANE SEALANT. ISOLATION JOINTS SHALL BE INSTALLED WHERE THE CONCRETE SLAB ABUTS HARD SURFACES.
- PAVEMENT ADJOINING KERB AND GUTTER IS TO BE RECONSTRUCTED 300mm WIDE AS DETAILED. COUNCILS SUPERVISOR MAY ALLOW THE EXISTING PAVEMENT TO BE RETAINED IF IN GOOD CONDITION. ALTERNATE AC LAYERING MAY BE APPROVED.
- PROVIDE 65 TOP COVER TO STEEL MESH REINFORCEMENT AND 75 COVER AT ENDS. STEEL MESH IS TO BE PLACED ON PLASTIC BAR CHAIRS IN A REGULAR GRID NOT EXCEEDING 1.0m SPACING.
- POLYETHYLENE SHEETING IS TO BE PLACED UNDER THE CONCRETE WHERE THE VFC IS CONTAINED ON BOTH SIDES BY FULL WIDTH PAVING.
- ALL PERIMETER EDGES TO BE ROUNDED TO 20 RADIUS USING AN EDGING TOOL.
- ADJOINING EXISTING CONCRETE FOOTPAVING IS TO BE RECONSTRUCTED TO MATCH THE VFC AT A GRADE GENERALLY NOT EXCEEDING 1 in 14 AS REQUIRED BY THE COUNCIL SUPERVISOR.
- ADJOINING NATURAL FOOTWAY IS TO BE SHAPED TO GRADE EVENLY TO THE VFC AS REQUIRED BY THE COUNCIL SUPERVISOR. DISTURBED AREAS TO BE TURFED.
- THIS PLAN APPLIES FOR HEAVY TRUCK MOVEMENTS OF LESS THAN 25 PER DAY.
- THIS PLAN DOES NOT APPLY FOR FOOTWAY WIDTHS LESS THAN 2800.



CITY OF CANTERBURY BANKSTOWN

STD DWG N°

STANDARD HEAVY DUTY
VEHICULAR FOOTWAY CROSSING (VFC)

S-009

Sheet N°:

1 of 1

Revision:

1/05/2017

File Name:

S-009.dwg

PLAN VIEW, SECTIONS AND GENERAL NOTES

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REV. DETAILS
01 FOR SEARS
02 FOR SEARS

DATE
19.07.19
23.08.19

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PROJECT
**NEW WESTERN SYDNEY UNIVERSITY
BANKSTOWN CITY CAMPUS**
74 RICKARD ROAD ALONG WITH A PORTION
OF 375 CHAPEL ROAD
DRAWING TITLE
**COUNCIL STANDARD
LAYBACK**

DETAILED DESIGN

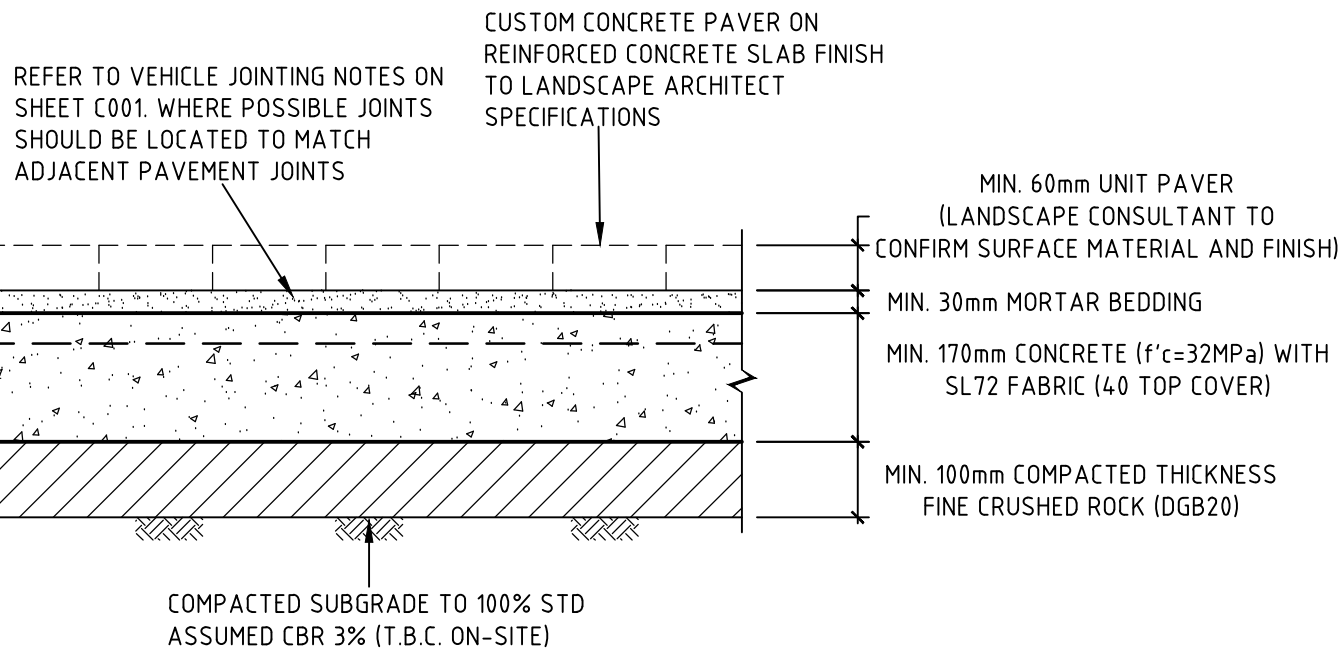
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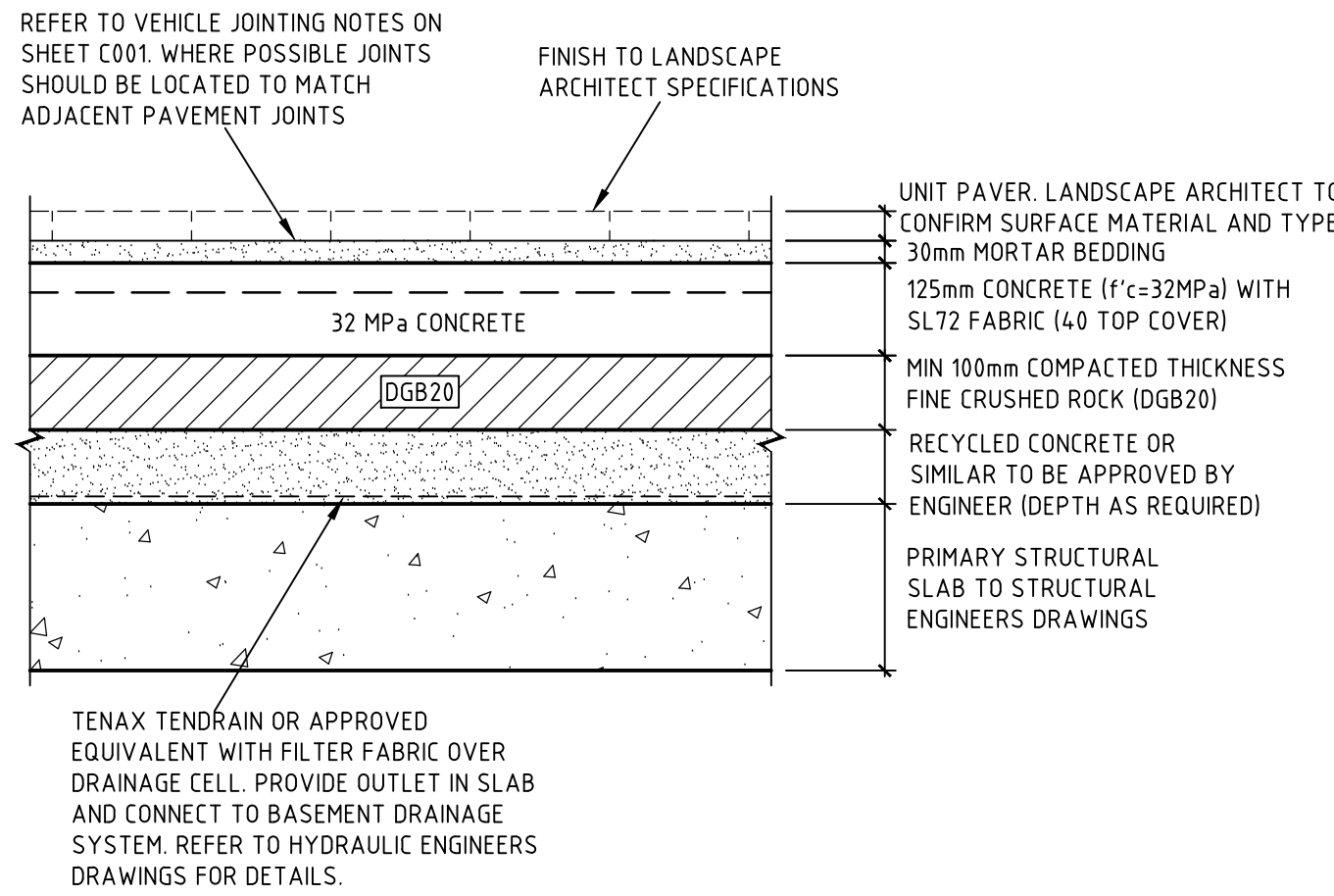
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- 982 EX SURFACE CONTOUR
- EX TREE
- SW EX STORMWATER DRAINAGE LINE
- S EX SEWER LINE
- W EX WATER MAIN
- G EX GAS LINE
- T EX TELECOMMUNICATIONS LINE
- E EX ELECTRICAL LINE
- UNIT PAVERS ON GRADE
- UNIT PAVERS ON SUSPENDED SLAB
- GARDEN BED, REFER TO LANDSCAPE FOR DETAIL



PAVEMENT TYPE
UNIT PAVERS ON GRADE

SCALE 1:10



PAVEMENT TYPE
UNIT PAVERS ON SUSPENDED SLAB

SCALE 1:10



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01	PRELIMINARY DRAFT ISSUE	25.02.19
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03	FOR SEARS	21.06.19
04	ISSUED FOR DETAILED DESIGN	28.06.19
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PROJECT
**NEW WESTERN SYDNEY UNIVERSITY
BANKSTOWN CITY CAMPUS**
74 RICKARD ROAD ALONG WITH A PORTION
OF 375 CHAPEL ROAD

DRAWING TITLE
OVERALL PAVEMENT PLAN

DETAILED DESIGN		NORTH	
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JOB No. 1097901C	DRAWN PA	CHECKED	DATE
DRAWING No. C00-70			REVISION 06

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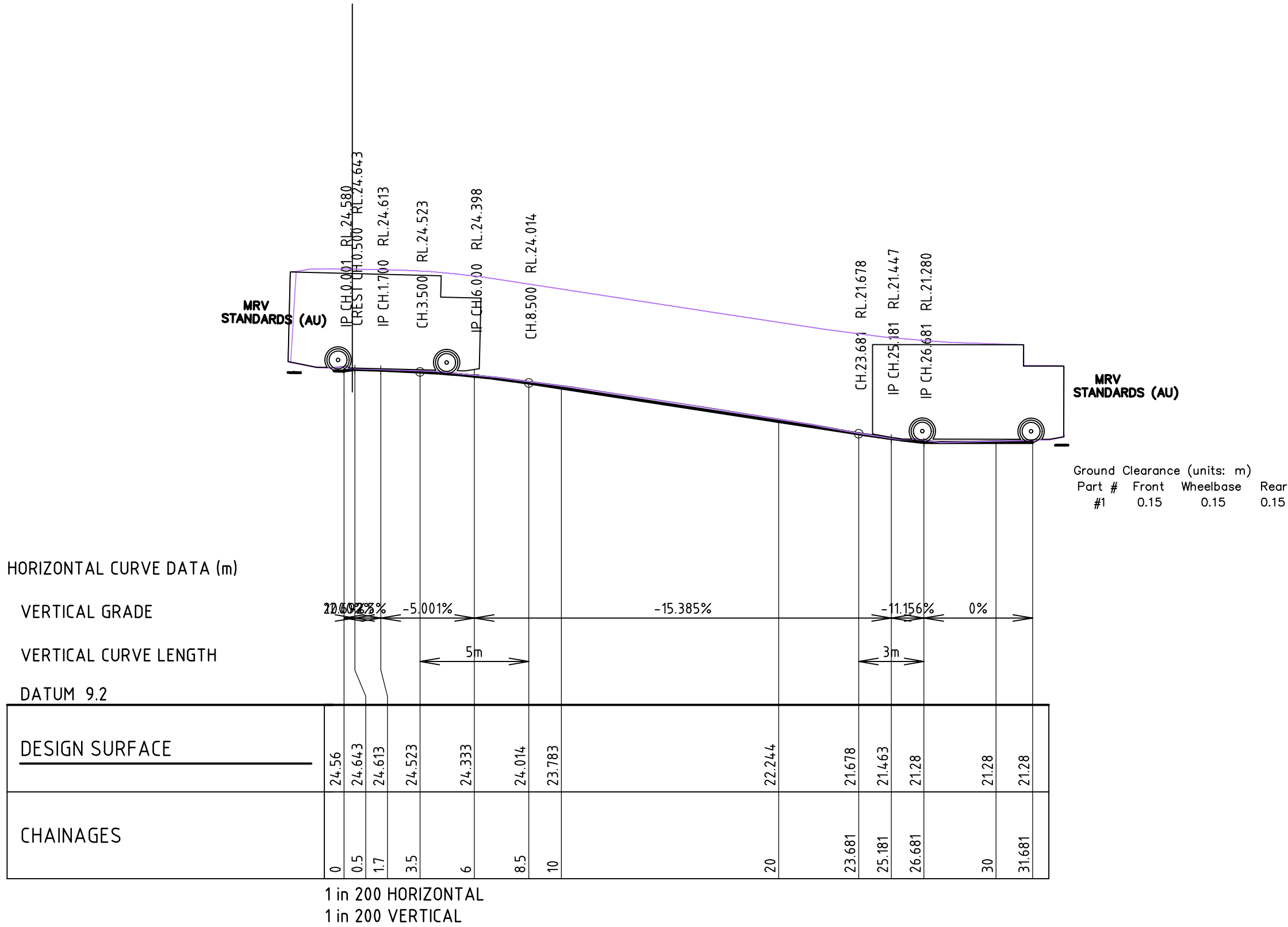
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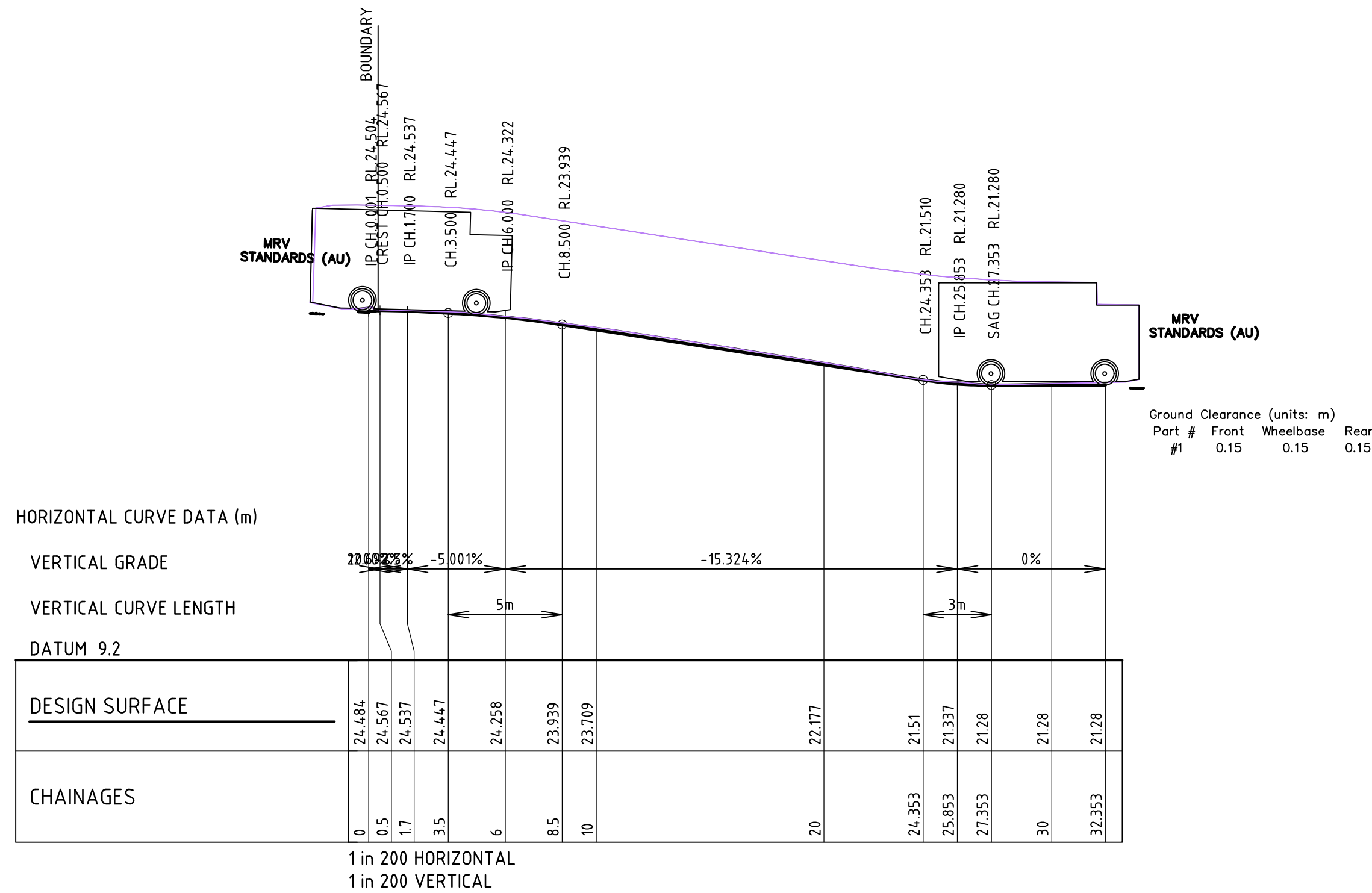
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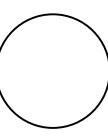


KERB-IKa LONGITUDINAL SECTION 1



KERB-IKb LONGITUDINAL SECTION 2

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PROJECT
**NEW WESTERN SYDNEY UNIVERSITY
BANKSTOWN CITY CAMPUS**
74 RICKARD ROAD ALONG WITH A PORTION
OF 375 CHAPEL ROAD

DRAWING TITLE
DRIVEWAY LONG SECTIONS

DETAILED DESIGN

JOB No. 1097901C DRAWN PA CHECKED - DATE -

DRAWING No. C00-80 REVISION

03

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BANKSTOWN CITY CAMPUS**
74 RICKARD ROAD ALONG WITH A PORTION
OF 375 CHAPEL ROAD
DRAWING TITLE
**RICKARD ROAD
SIGNPOST AND LINEMARKING
PLAN**

DETAILED DESIGN			NORTH
SCALE NOTED			
JOB No.	DRAWN	CHECKED	DATE
1097901C	PA	-	-
DRAWING No.			REVISION
C00-90			02

