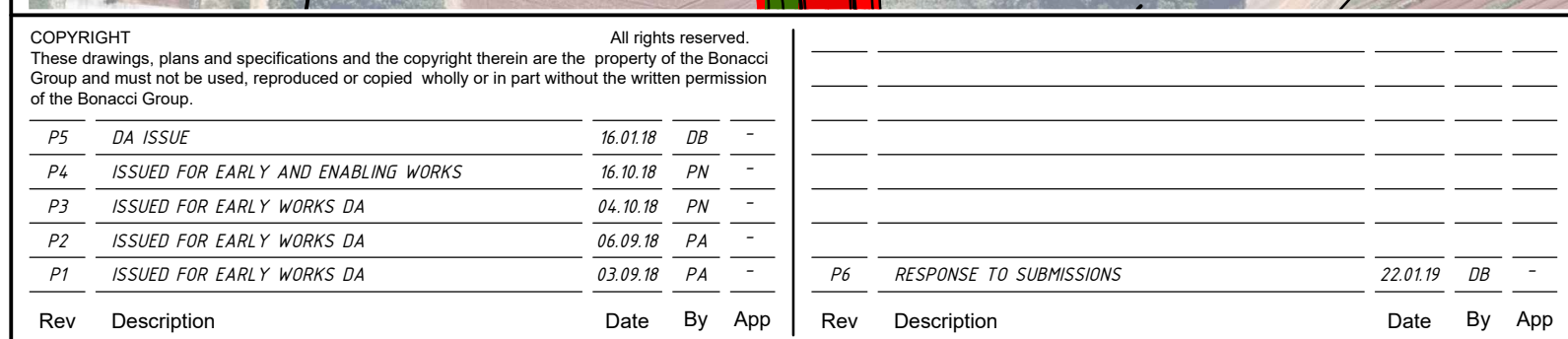




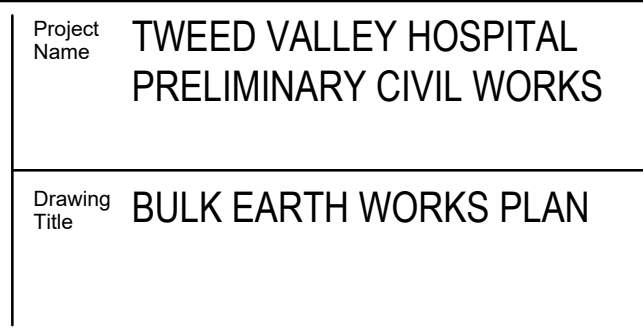
NOTE

FOR SECTIONS REFER TO DRAWINGS:
C020, C021, C022, C023

EARTHWORKS QUANTITIES	
BASINS	
CUT VOLUME	= 15,136m ³
FILL VOLUME	= 5054m ³
NET (CUT)	= -10,083m ³

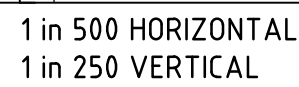
EARTHWORKS QUANTITIES	
<u>TOTAL</u>	
CUT VOLUME =	108,950m ³
FILL VOLUME =	63,963m ³
NET (CUT) =	44,987m ³

E1	VOLUMES ARE APPROXIMATE ONLY AND DO NOT INCORPORATE BULKING FACTORS AND OVER EXCAVATION. VOLUMES HAVE BEEN CALCULATED BETWEEN EXISTING SURFACE LEVELS AND BULK EARTHWORKS LEVELS.
E2	THIS DRAWING ONLY DETAILS EXCAVATION ASSOCIATED WITH THE BUILDING SLAB (IGNORING STRUCTURAL FOOTINGS, BEAMS AND COLUMNS).
E3	PROVIDE TEMPORARY MAXIMUM 1 IN 1 BATTERS TO BUILDING PLATFORM EARTHWORKS. MAXIMUM 1 IN 2 BATTERS FOR PERMANENT BATTERS. GEOTECH TO CONFIRM BATTER ACCEPTABILITY DURING CONSTRUCTION.
E4	THE EXCAVATED MATERIAL IS TO BE TEMPORARILY STOCKPILED WITHIN THE LANDSCAPED AREAS (TO BE CONFIRMED ON-SITE) AND RE-USED AS LANDSCAPING SOIL BUILD-UP IN ACCORDANCE WITH LANDSCAPE ARCHITECTS SPECIFICATIONS
E5	REFER TO ARBORIST REPORT FOR TREE PROTECTION MEASURES IF REQUIRED.
E6	ALL EXCESS MATERIAL TO BE RETAINED ON-SITE AND LANDSCAPED AS REQUIRED. EXCESS MATERIAL CAN ALSO BE DISTRIBUTED IN THE FILL BATTERS OF THE SITE BATTERING TO THE EXISTING SURFACES. PROVIDE MAX SLOPES OF 1 IN 2 (WITH MIN 1% FALLS) AND TO BE RE-VEGETATED

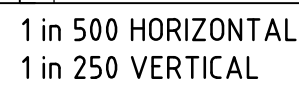


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Drawn	C.G.S.				
Scale	1:1000	Project Ref		Drawing No	Rev
Date	16.01.19	20 10748 01		C011	P6
Sheet	A1				

FOR PLAN SECTION LOCATION DRAWING REFER
TO DRAWING: C011



SC01 LONGITUDINAL SECTION



SC02 LONGITUDINAL SECTION

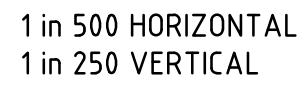
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Drawing
Title

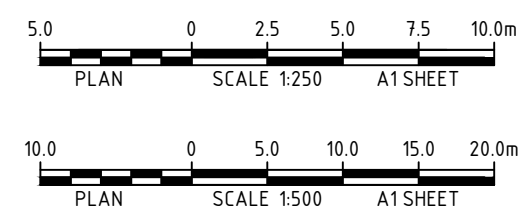
BULK EARTH WORKS
SECTIONS
SHEET 1

Designed	C.G.S.	Project Director Approved	Date	North
Drawn	C.G.S.			
Scale	1:1000			
Date	16.01.19	Project Ref	Drawing No	Rev
Sheet	A1	20 10748 01	C020	P1

FOR PLAN SECTION LOCATION DRAWING REFER
TO DRAWING: C011



DESIGN GRADELINE									
HORIZONTAL GEOMETRY									
DATUM -8.3									
CHAINAGES	EXISTING SURFACE	EARTHWORKS	SC04						
0.000	25.352								
25.000	25.851	24.832							
50.000	26.105	24.942							
75.000	26.890	25.510							
100.000	26.179	22.950							
125.000	25.715	22.950							
150.000	24.047	18.150							
175.000	22.930	22.950							
200.000	21.775	22.950							
225.000	16.842	17.952							
250.000	13.082	9.129							
275.000	10.228	7.000							
300.000	7.967	9.391							
325.000									
338.314									

[illegible]

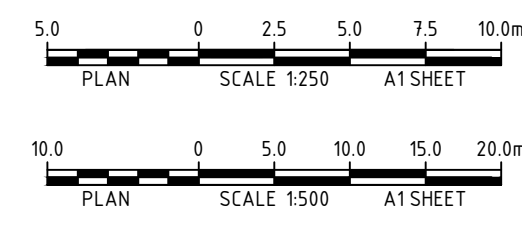
Project Name	TWEED VALLEY HOSPITAL PRELIMINARY CIVIL WORKS	CONSTRUCTION					
Drawing Title	BULK EARTH WORKS SECTIONS SHEET 2	Designed	C. G. S.	Project Director Approved		Date	North
		Drawn	C. G. S.				
		Scale	1:1000				
		Date	16.01.19				
				Sheet	A1	Project Ref	Drawing No
				20 10748 01	C021	P1	

FOR PLAN SECTION LOCATION DRAWING REFER
TO DRAWING: C011



P1	DA ISSUE	16.01.18	DB	-
Rev	Description	Date	By	App

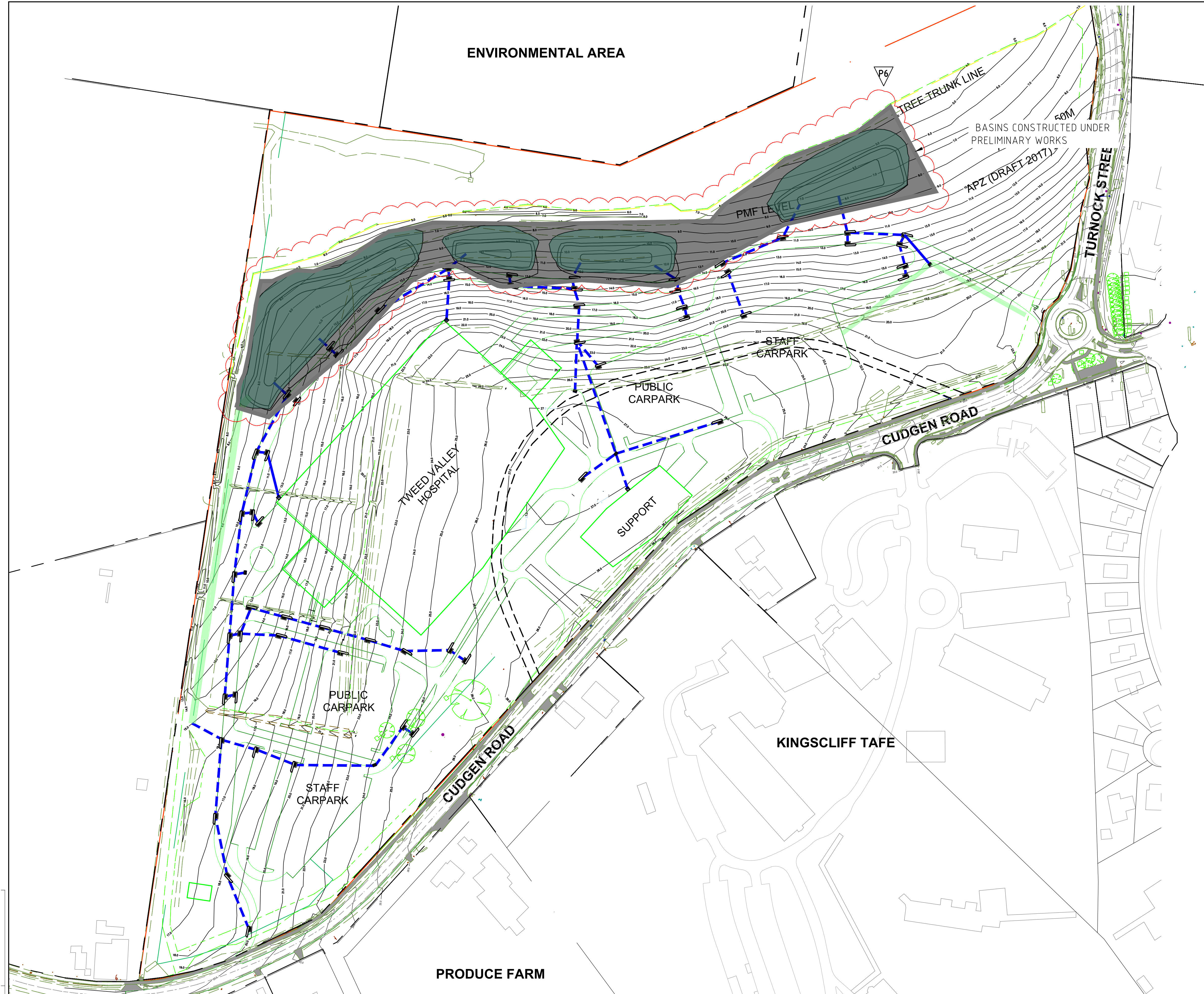
Rev	Description	Date	By	App.

The logo for Bonacci Group Pty Ltd features the word "BONACCI" in a large, white, serif font. A thin, horizontal line is drawn through the middle of the letters, creating a stylized effect. The logo is set against a dark, rectangular background.

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Project Name	TWEED VALLEY HOSPITAL PRELIMINARY CIVIL WORKS
Drawing Title	BULK EARTH WORKS SECTIONS SHEET 4

CONSTRUCTION		
Project Director Approved	Date	North 
Project Ref	Drawing No	Rev
20 10748 01	C023	P1



LEGEND

- SITE BOUNDARY
- SEDIMENT FENCE
- BIO RETENTION SWALE
- RETENTION BASINS
- JUNCTION PIT
- STORMWATER DRAINAGE LINE
- Ex S EXISTING SEWER
- Ex OH EXISTING OVERHEAD LINES
- Ex T EXISTING TELSTRA
- Ex SW EXISTING STORMWATER
- Ex W EXISTING WATER

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P5	DA ISSUE	16.01.18	DB	-
P4	ISSUED FOR EARLY AND ENABLING WORKS	16.10.18	PN	-
P3	ISSUED FOR EARLY WORKS DA	04.10.18	PN	-
P2	ISSUED FOR EARLY WORKS DA	06.09.18	PA	-
P1	ISSUED FOR EARLY WORKS DA	03.09.18	PA	-

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P6	RESPONSE TO SUBMISSIONS	22.01.19	DB	-
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Rev	Description	Date	By	App	Rev	Description	Date	By	App
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25 0 10 20 30 40 50m
PLAN SCALE 1:1250 A1 SHEET

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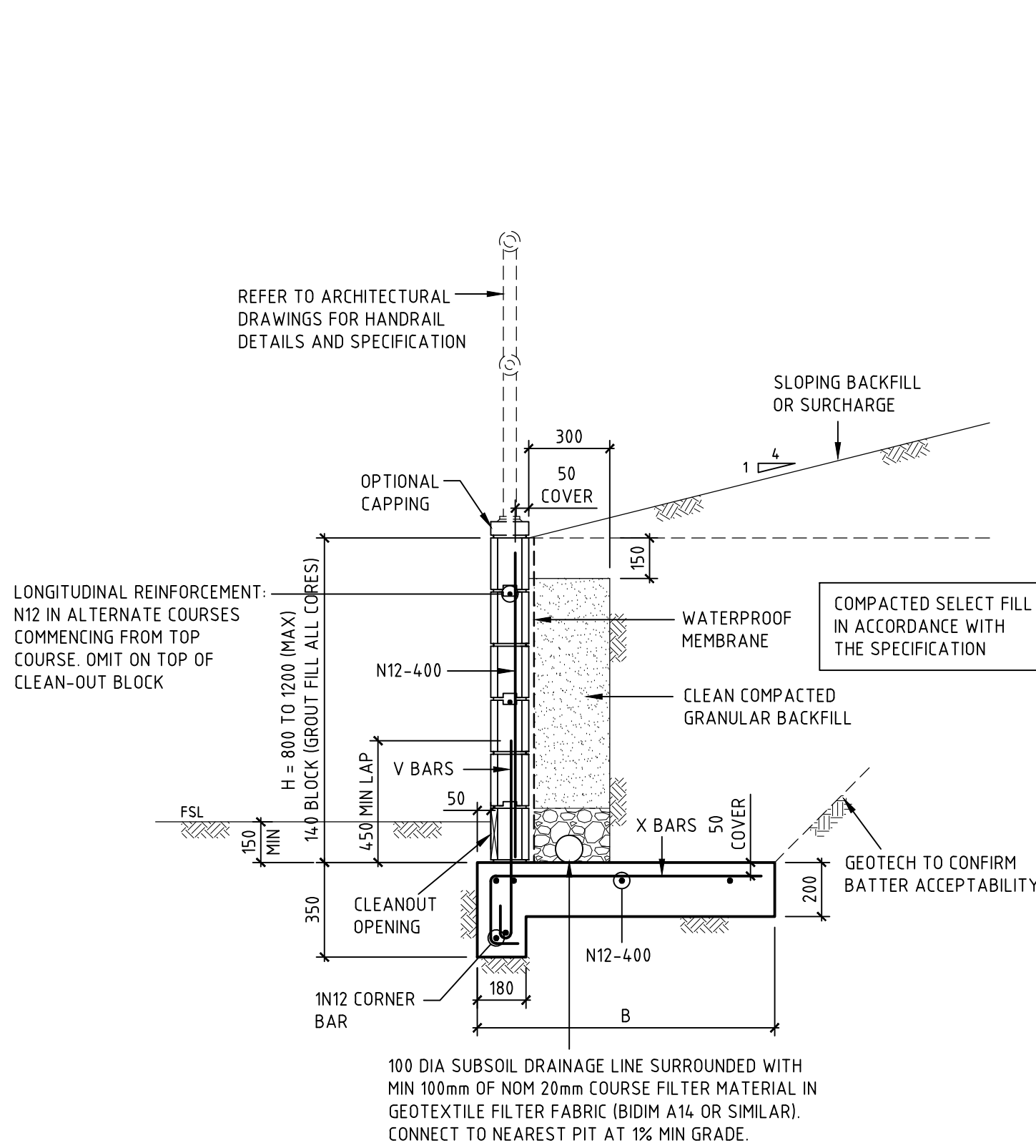
Project Name
**TWEED VALLEY HOSPITAL
DEVELOPMENT, CUDGEN
STAGE 1 EARLY WORKS**

Drawing Title
**CONCEPT STORMWATER
MANAGEMENT PLAN**

DEVELOPMENT APPLICATION

Designed	PA	Project Director Approved	Date	North
Drawn	PA			
Scale	1:1250	Project Ref	Drawing No	Rev
Date	03.09.18	20 10748 01	C030	P6
Sheet	A1			

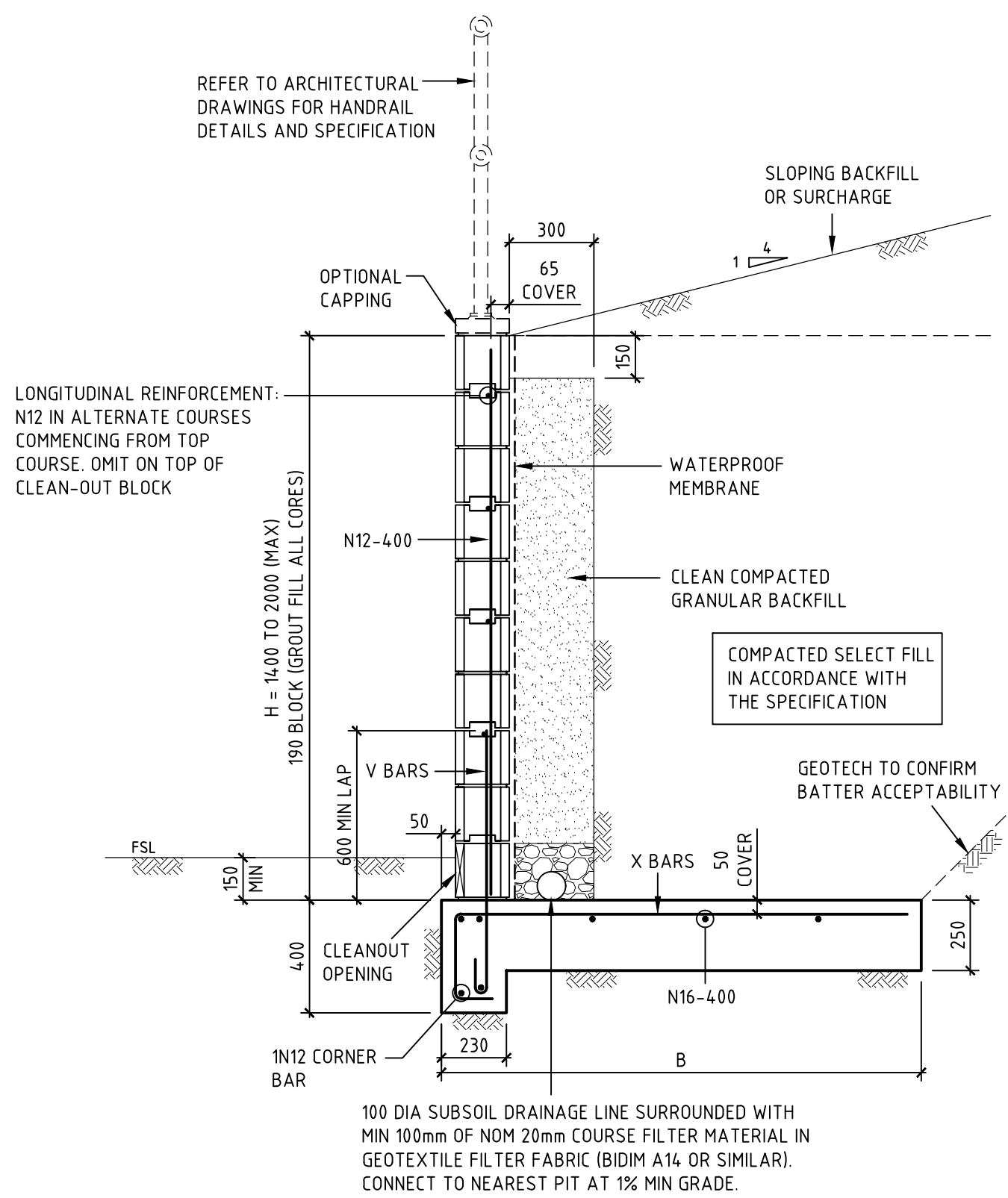
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BLOCK RETAINING WALL (MAX 1200 HIGH)

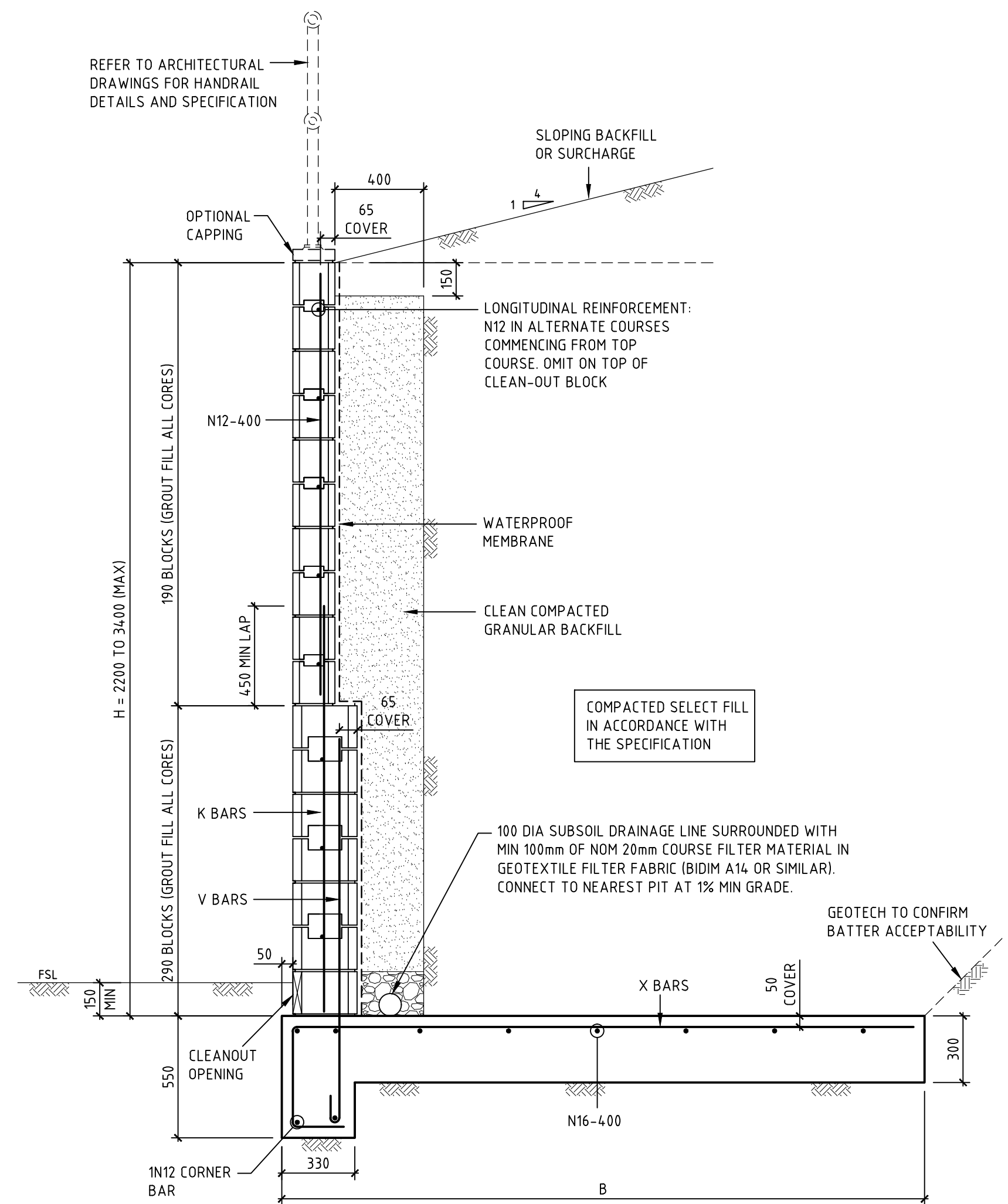
SCALE 1:20

NOTE: DESIGNER TO CHECK THE NEED FOR SHEAR KEY



BLOCK RETAINING WALL (MAX 2000 HIGH)

SCALE 1:20



BLOCK RETAINING WALL (MAX 3400 HIGH)

SCALE 1:20

BLOCK RETAINING WALL BASE TYPE 1

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

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Rev Description Date By App

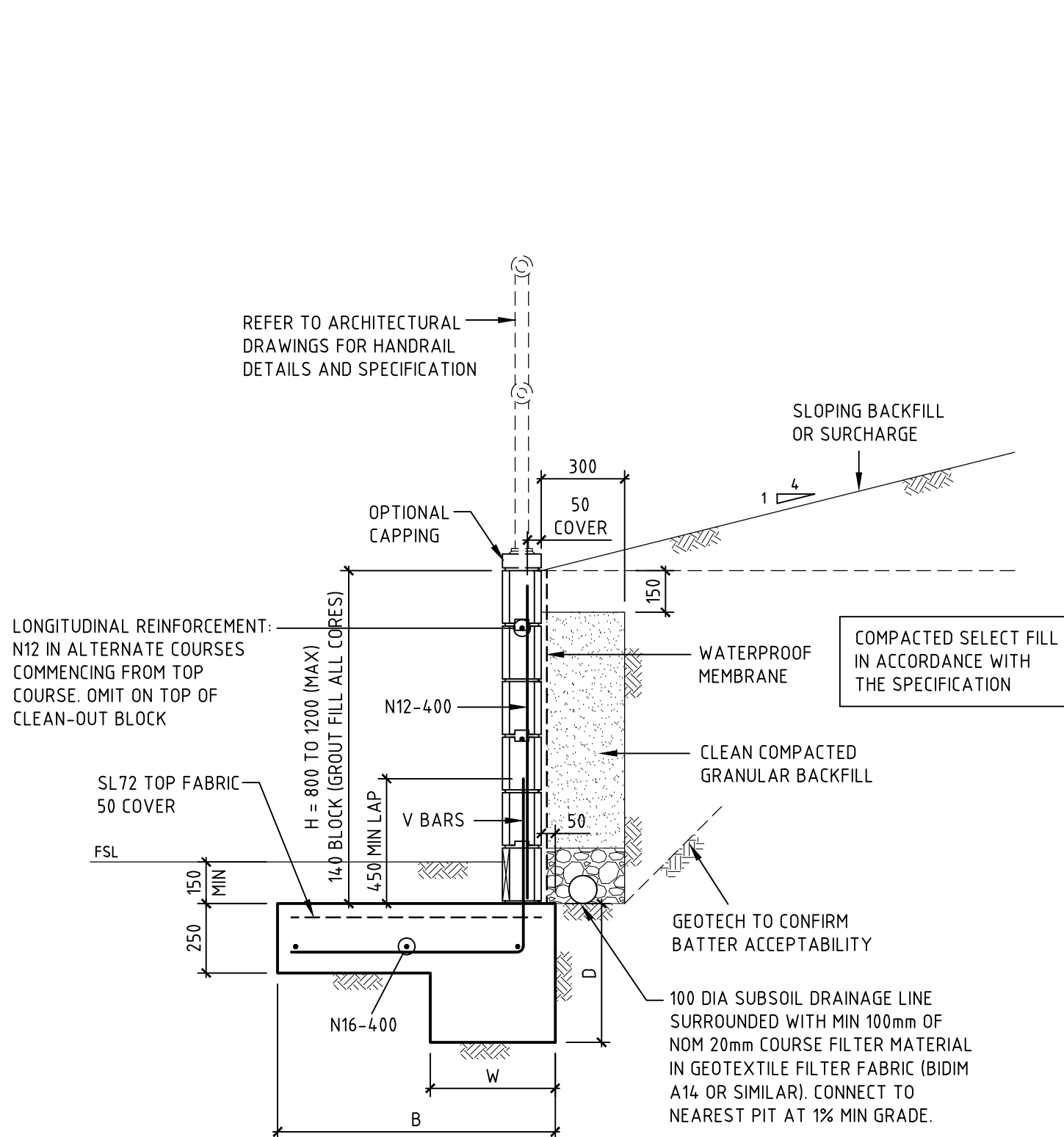
Rev Description Date By App

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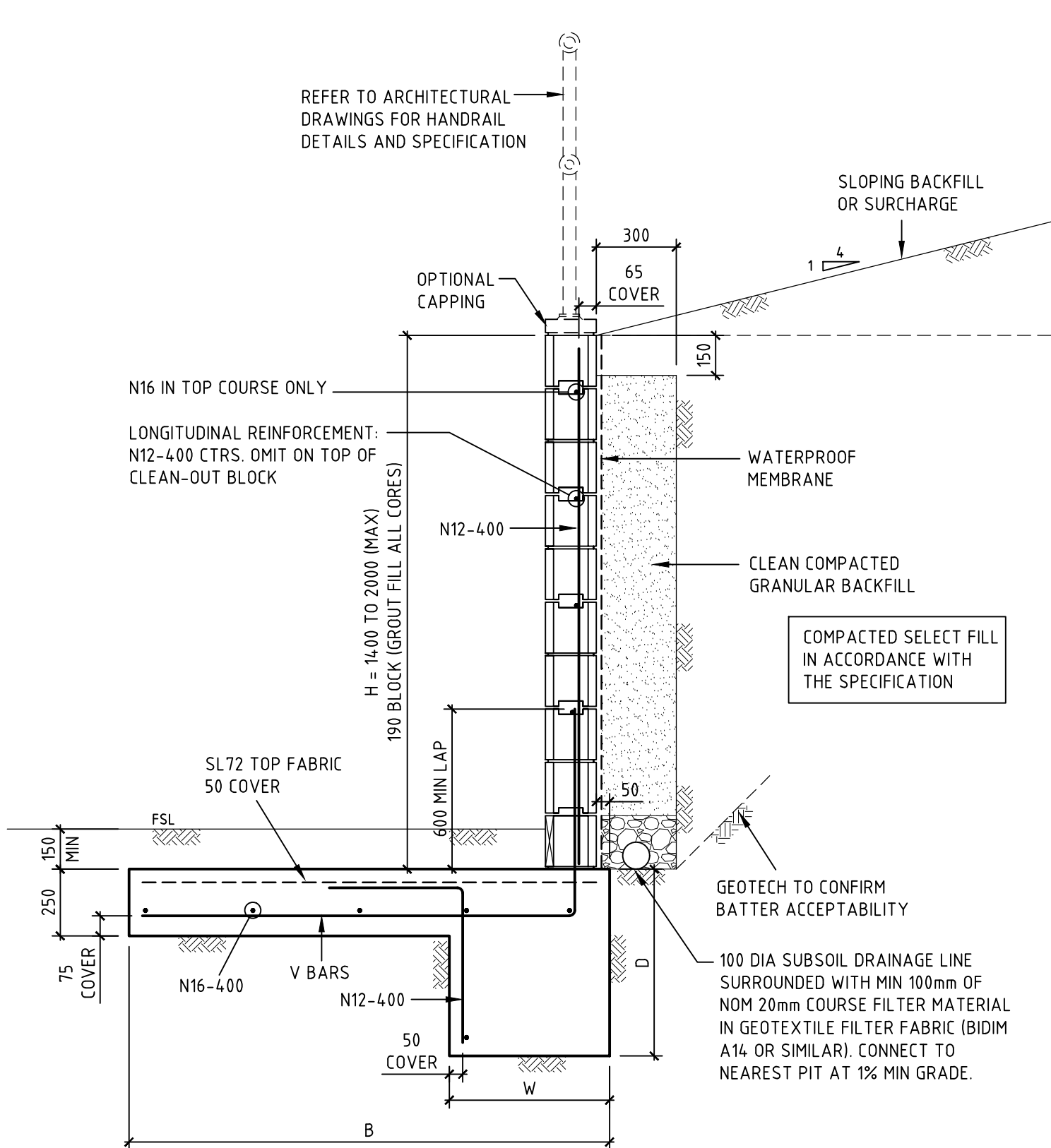
Project Name
TWEED VALLEY HOSPITAL
DEVELOPMENT, CUDGEN
STAGE 1 EARLY WORKS
Drawing Title
RETAINING WALL
DETAILS SHEET 1

DEVELOPMENT APPLICATION

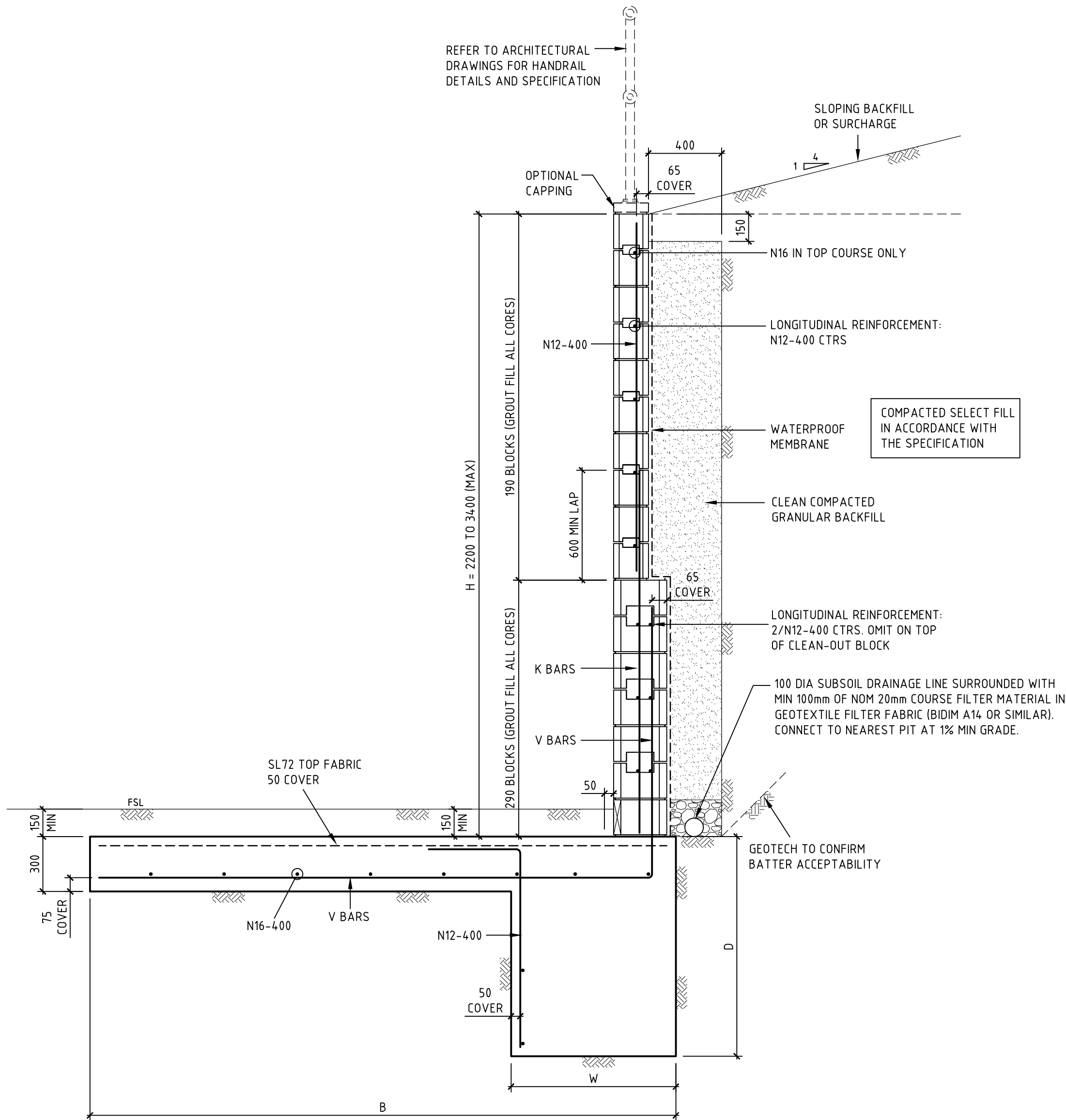
Designed PA
Drawn PA
Scale -
Date 03.09.18
Sheet A1
Project Director Approved Date
Project Ref 20 10748 01
Drawing No C055
Rev P2



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



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



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

BLOCK RETAINING WALL BASE TYPE 2

WALL HEIGHT				REINFORCEMENT		BASE DIMENSIONS				
TOTAL HEIGHT (mm) H	HEIGHT OF BLOCKWORK			X-BARS AND V-BARS	K-BARS	HEEL WIDTH (mm) W	LEVEL BACKFILL		MAX 1:4 SLOPING BACKFILL	
	150 SERIES	200 SERIES	300 SERIES				BASE WIDTH (mm) B	HEEL DEPTH (mm) D	BASE WIDTH (mm) B	HEEL DEPTH (mm) D
800	800	-	-	N12-400	-	450	600	500	800	500
1000	1000	-	-	N12-400	-	450	800	500	1000	500
1200	1200	-	-	N12-400	-	450	1000	500	1200	600
1400	-	1400	-	N16-400	-	450	1200	500	1400	600
1600	-	1600	-	N16-400	-	450	1400	600	1600	700
1800	-	1800	-	N16-400	-	450	1600	700	1800	800
2000	-	2000	-	N16-200	-	600	1800	700	2000	800
2200	-	1400	800	N16-400	N16-400	600	2000	800	2200	900
2400	-	1600	800	N16-400	N16-400	600	2200	900	2400	1000
2600	-	1600	1000	N20-400	N20-400	900	2400	900	2600	1000
2800	-	1800	1000	N20-400	N20-400	900	2600	900	2800	1100
3000	-	2000	1000	N16-200	N16-200	900	2800	1000	3000	1200
3200	-	2000	1200	N20-200	N16-200	900	3000	1100	3200	1300
3400	-	2000	1400	N20-200	N16-200	900	3200	1200	3400	1500

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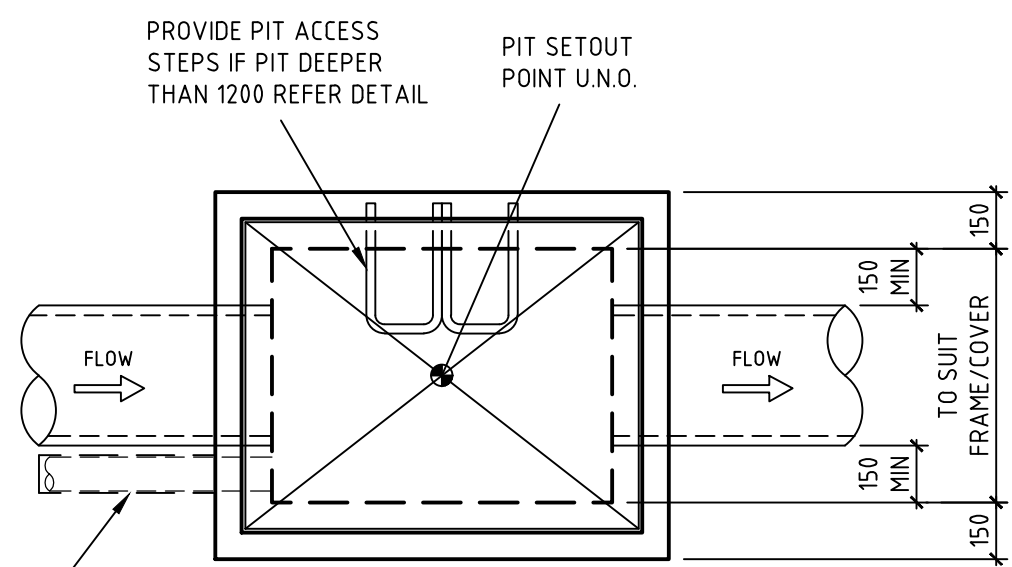
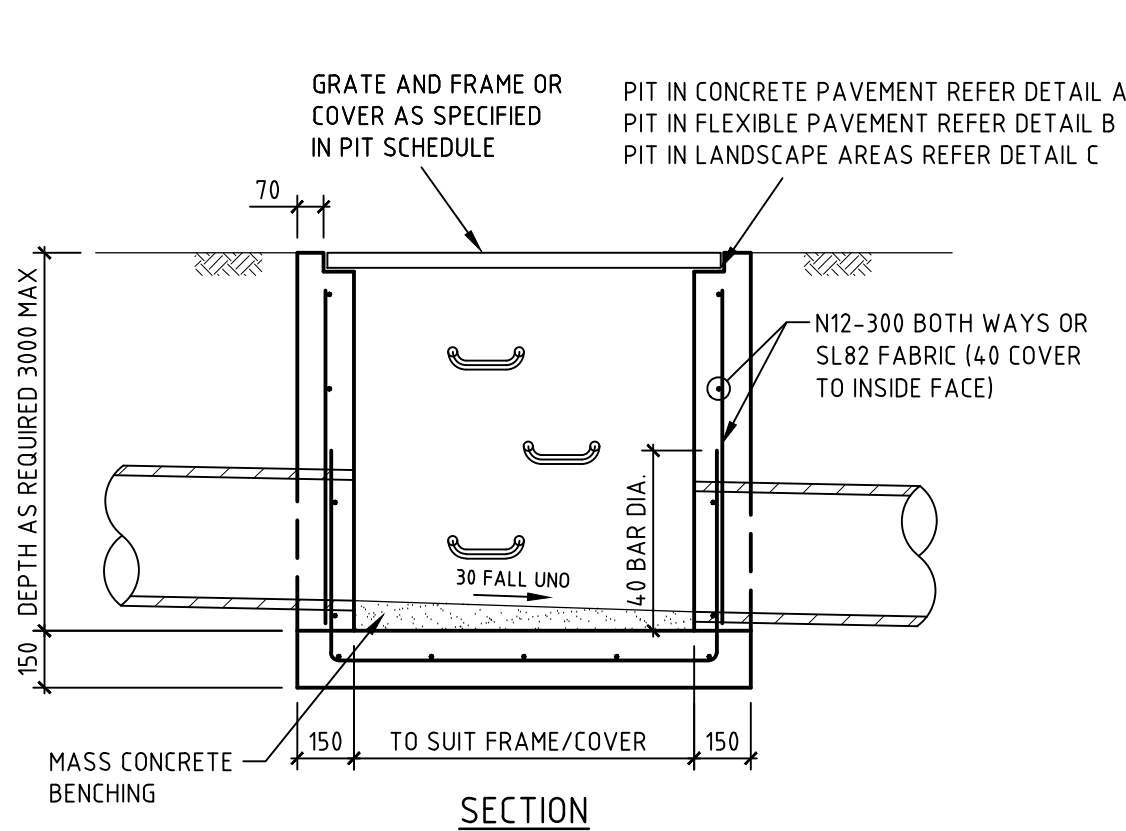
Rev Description Date By App

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Project Name
TWEED VALLEY HOSPITAL
DEVELOPMENT, CUDGEN
STAGE 1 EARLY WORKS
Drawing Title
RETAINING WALL
DETAILS SHEET 2

DESIGNATION APPLICATION
Designed PA
Drawn PN
Scale -
Date 03.09.18
Sheet A1
Project Ref
20 10748 01
Drawing No
C056
Rev
P2



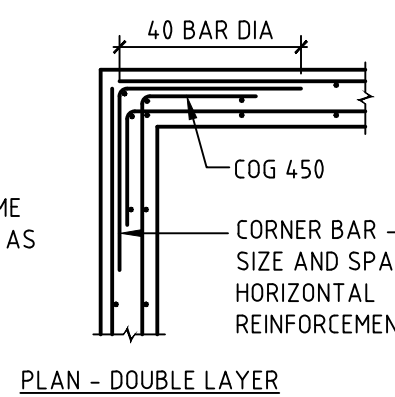
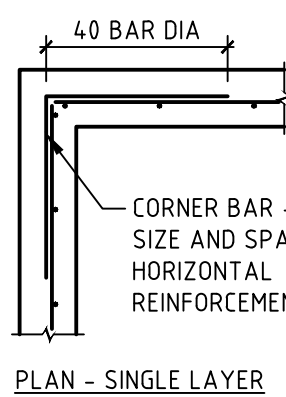
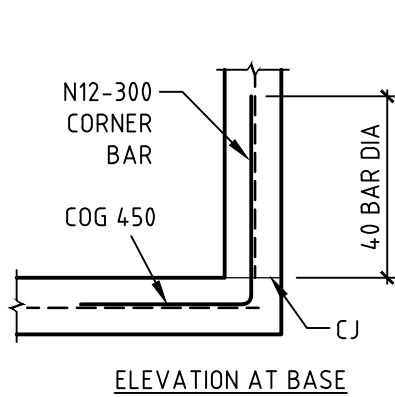
100 DIA x 3000 LONG SUBSOIL DRAINAGE STUB SURROUNDED WITH 100mm OF NOM 20mm COARSE FILTER MATERIAL WRAPPED IN GEOTEXTILE FILTER FABRIC (BIDIM A24 OR SIMILAR) TO EACH INLET PIPE

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.



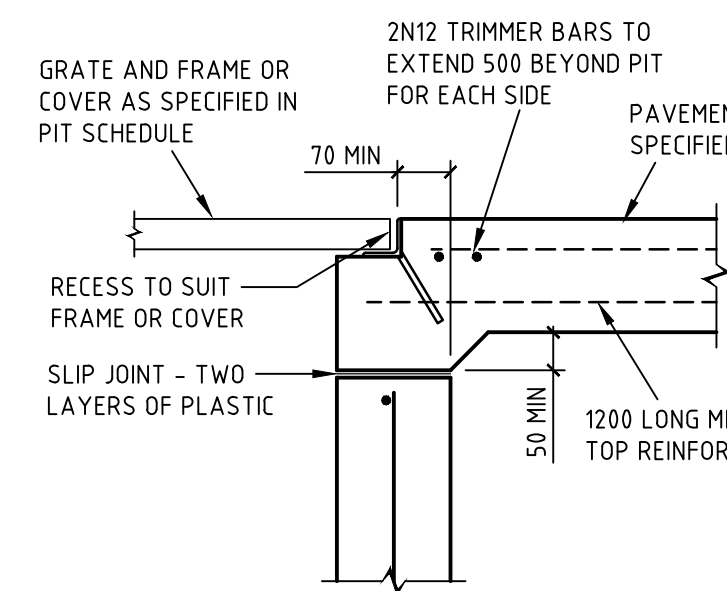
FABRIC

REINFORCEMENT

PIT CORNER DETAILS

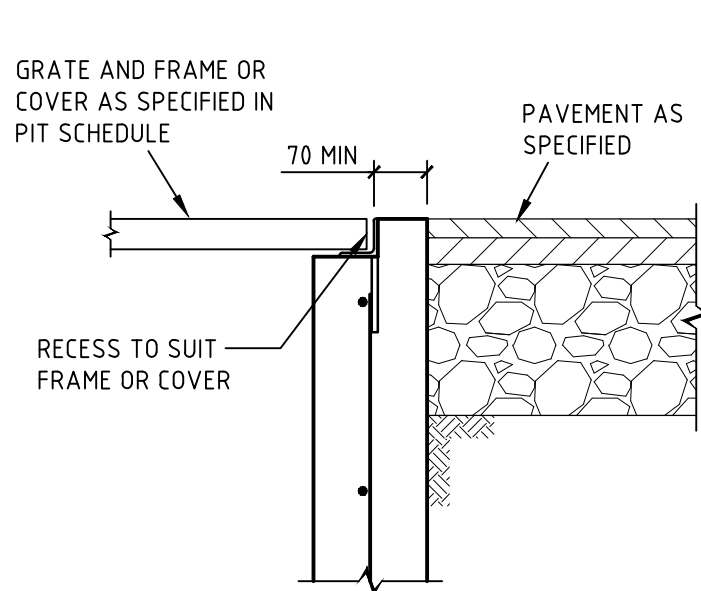
SCALE 1:20

NOTE: DESIGNER TO VERIFY EXTENT OF DETAILING



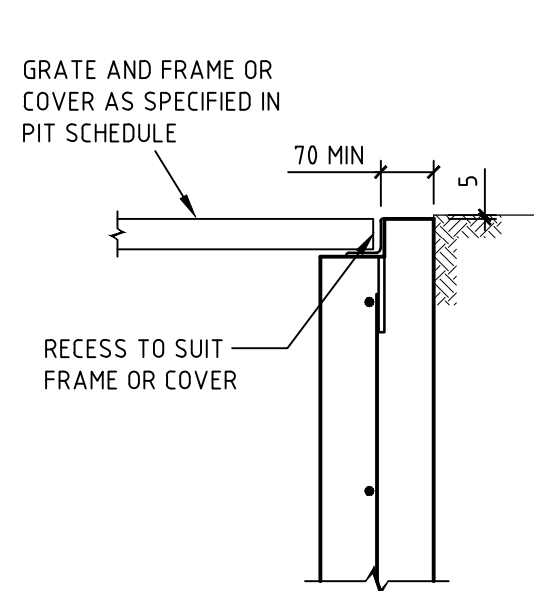
DETAIL A

SCALE 1:10



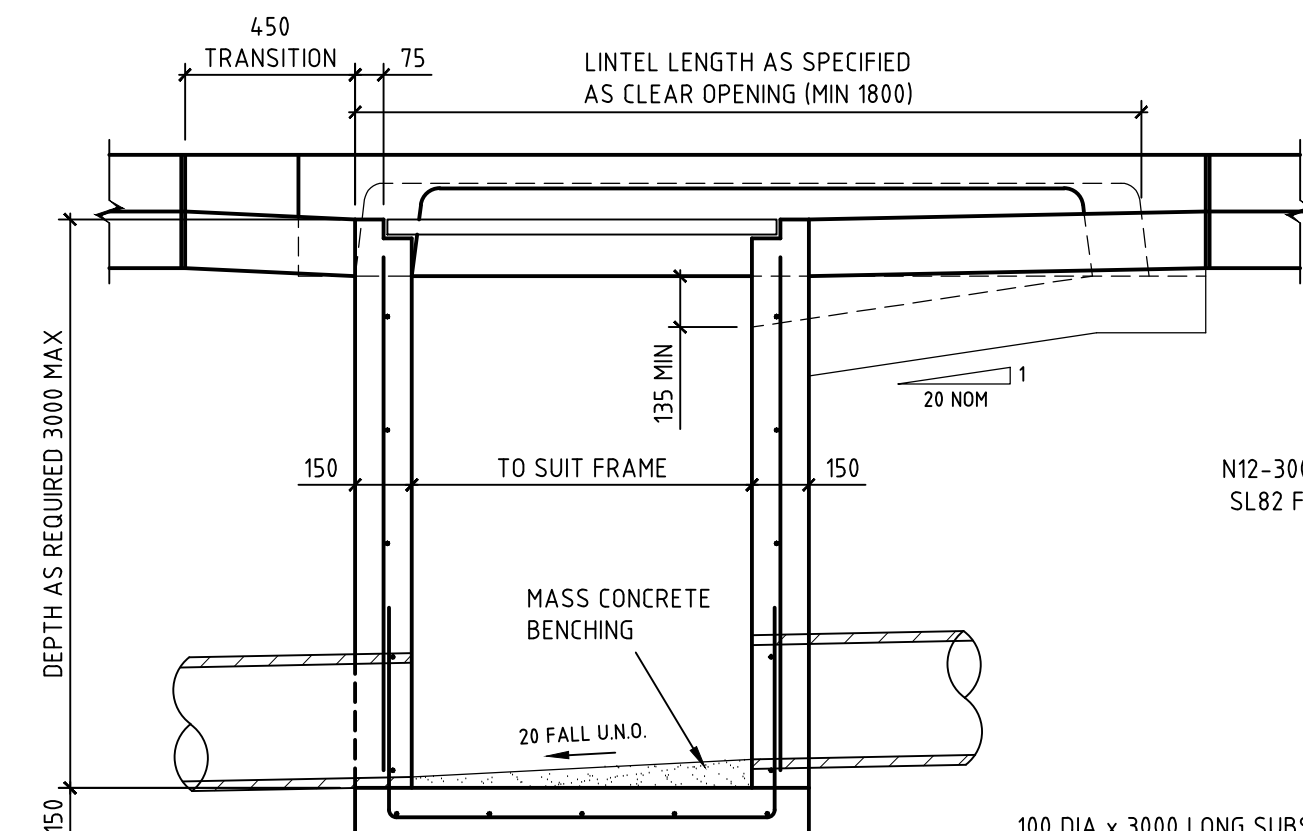
DETAIL B

SCALE 1:10



DETAIL C

SCALE 1:10



SECTION A - A

APPROVED PRECAST KERB INLET LINTEL (RMS STANDARD) 1800 LONG UNO

PIT SETOUT POINT U.N.O.

10 THICK COMPRESSIBLE CORK FILLER BOARD

GRATE AND FRAME AS SPECIFIED IN PIT SCHEDULE

100 DIA x 3000 LONG SUBSOIL DRAINAGE STUB SURROUNDED WITH 100mm OF NOM 20mm COARSE FILTER MATERIAL WRAPPED IN GEOTEXTILE FILTER FABRIC (BIDIM A24 OR SIMILAR) TO EACH INLET PIPE

10 THICK COMPRESSIBLE CORK FILLER BOARD

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10 THICK COMPRESSIBLE CORK FILLER BOARD

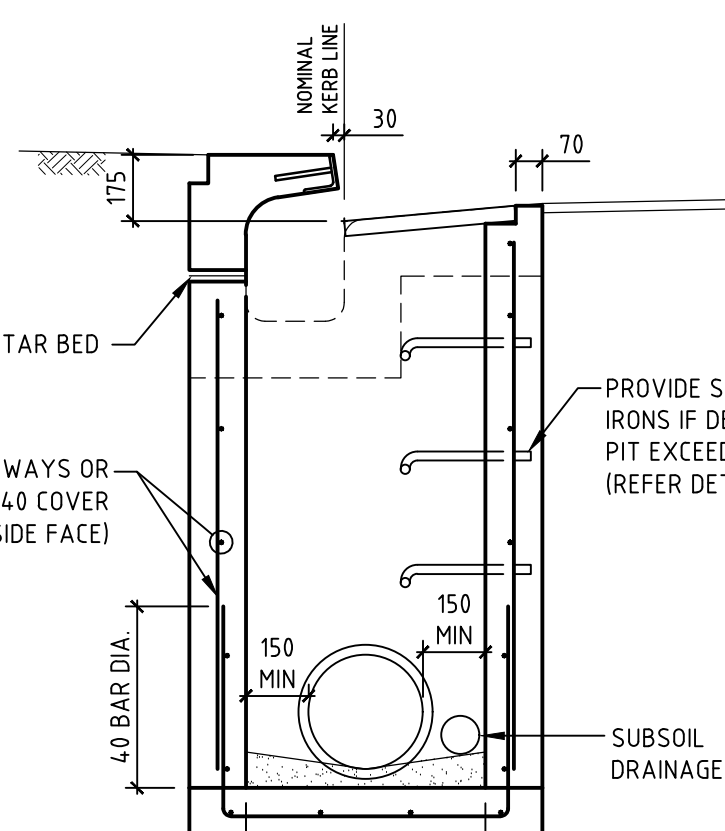
10 THICK COMPRESSIBLE CORK FILLER BOARD

10 THICK COMPRESSIBLE CORK FILLER BOARD

10 THICK COMPRESSIBLE CORK FILLER BOARD

10 THICK COMPRESSIBLE CORK FILLER BOARD

10 THICK COMPRESSIBLE CORK FILLER BOARD



SECTION B - B

100 DIA x 3000 LONG SUBSOIL DRAINAGE STUB SURROUNDED WITH 100mm OF NOM 20mm COARSE FILTER MATERIAL WRAPPED IN GEOTEXTILE FILTER FABRIC (BIDIM A24 OR SIMILAR) TO EACH INLET PIPE

PIT SETOUT POINT U.N.O.

10 THICK COMPRESSIBLE CORK FILLER BOARD

GRATE AND FRAME AS SPECIFIED IN PIT SCHEDULE

100 DIA x 3000 LONG SUBSOIL DRAINAGE STUB SURROUNDED WITH 100mm OF NOM 20mm COARSE FILTER MATERIAL WRAPPED IN GEOTEXTILE FILTER FABRIC (BIDIM A24 OR SIMILAR) TO EACH INLET PIPE

10 THICK COMPRESSIBLE CORK FILLER BOARD

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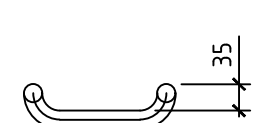
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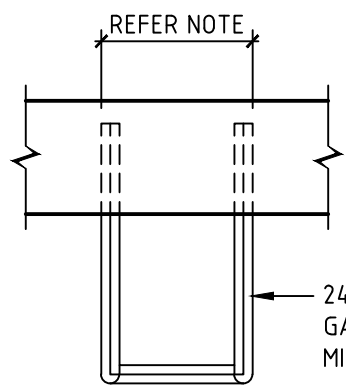
10 THICK COMPRESSIBLE CORK FILLER BOARD

SECTION C - C

DRILL 30mm DIA HOLE x 120mm DEEP AND EPOXY INTO WALL WITH EPOXY MORTAR EQUAL TO EPIREZ 633 (NON SAGE) - IN PRECAST PITS, DEPTH OF EMBEDMENT IS TO BE IN ACCORDANCE WITH PIT MANUFACTURER'S DETAILS



FRONT ELEVATION

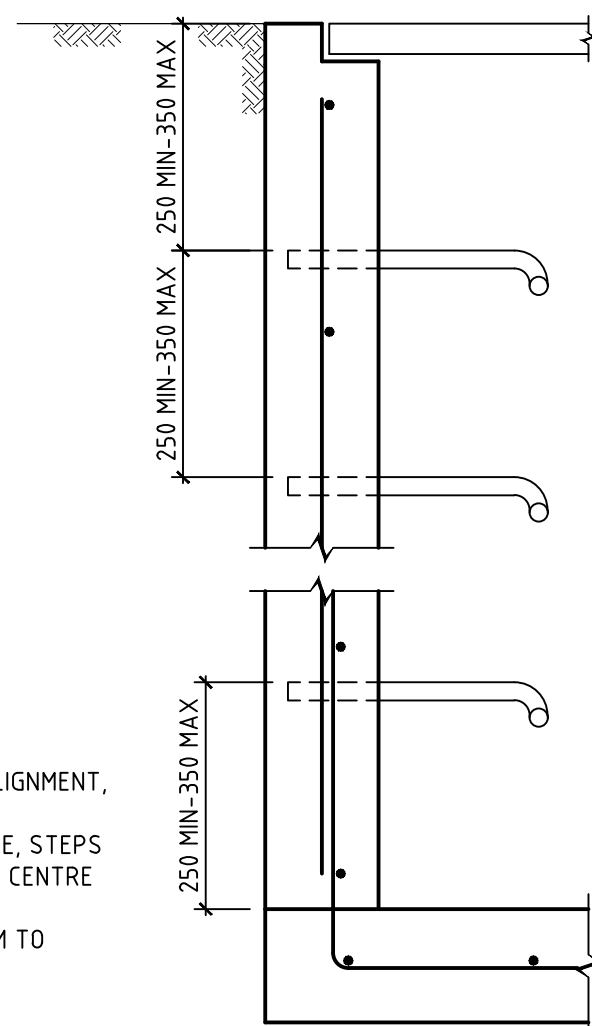


PLAN

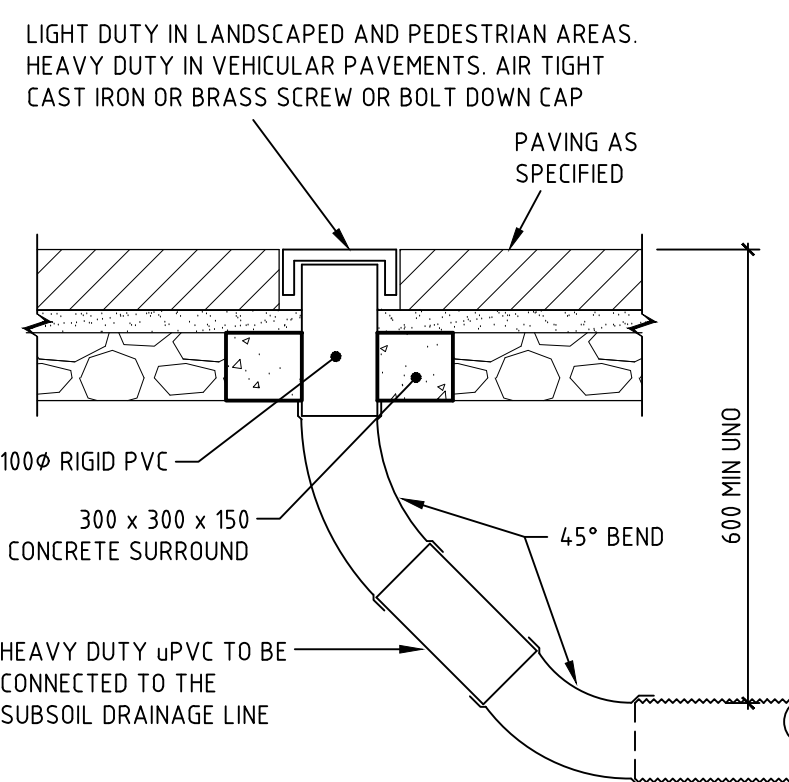
- NOTES
1. WHEN POSITIONED IN STRAIGHT ALIGNMENT, STEP TO BE 400 WIDE.
 2. STAGGERED STEPS TO BE 200 WIDE, STEPS TO BE STAGGERED 200 CENTRE TO CENTRE FOR ALTERNATIVE STEPS.
 3. SPACING OF STEPS TO BE UNIFORM TO WITHIN ±8mm IN EACH PIT.

PIT ACCESS STEP DETAIL

SCALE 1:10

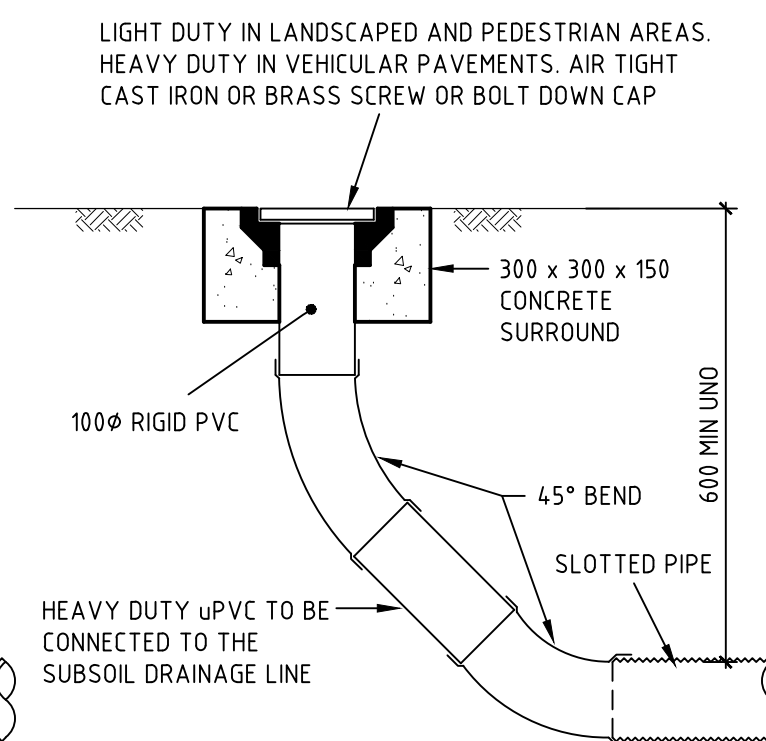


SECTION



FLUSHOUT RISER (FOR) IN PAVING BRICKS

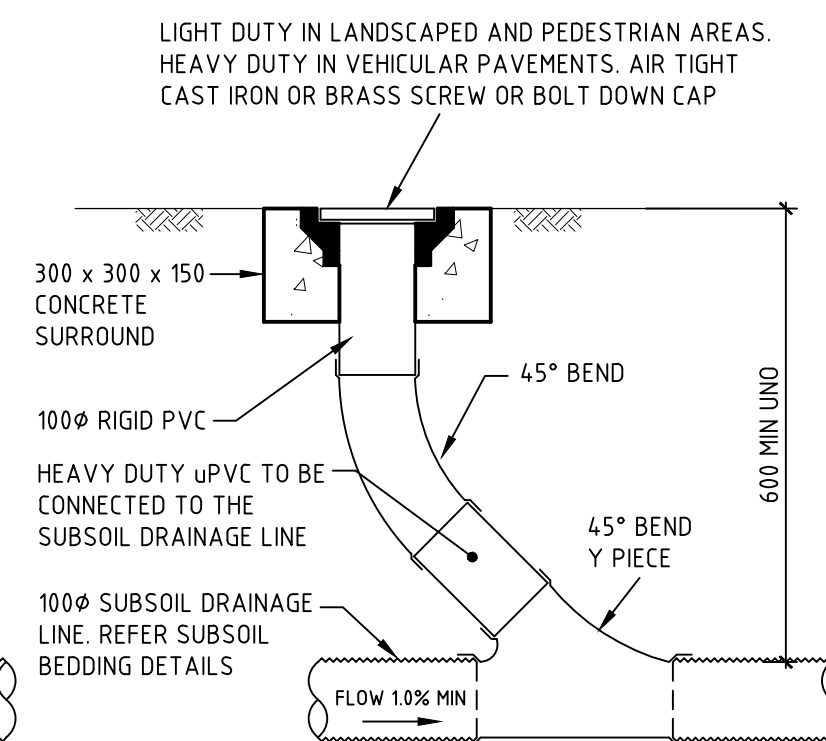
SCALE 1:10



FLUSHOUT RISER (FOR)

SCALE 1:10

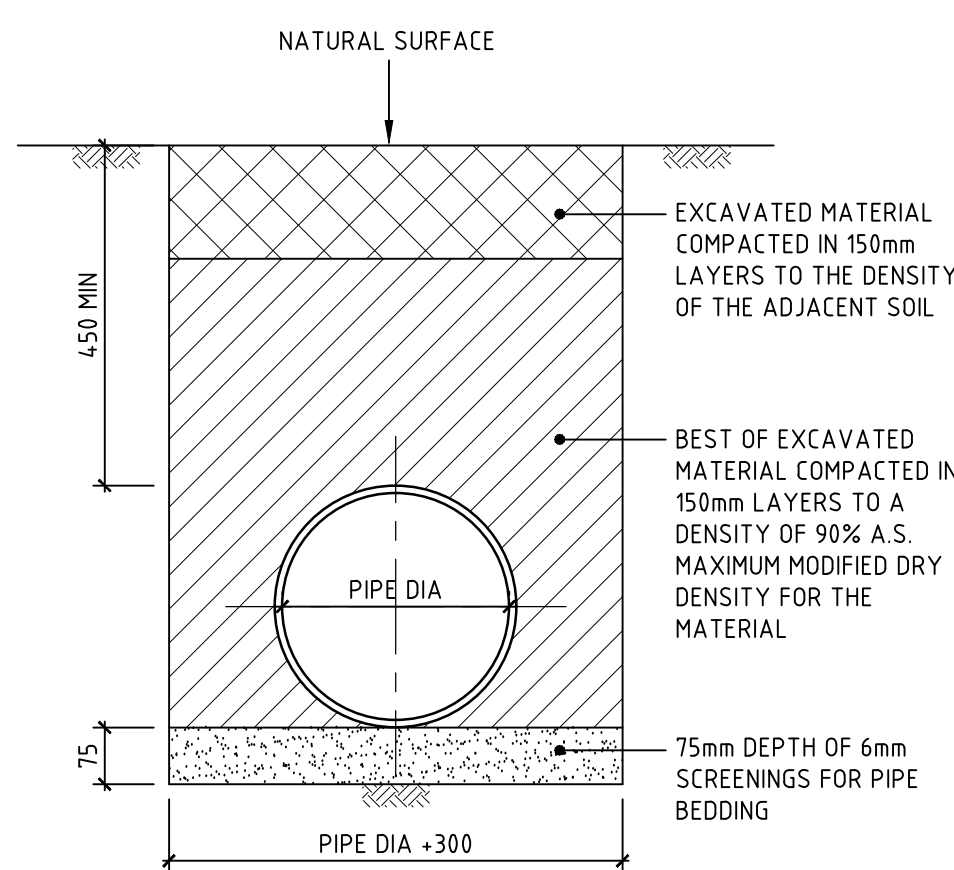
NOTE: SLOTTED RIGID PVC PIPE AND FITTINGS WITHIN DRAINAGE LAYER ONLY



INTERMEDIATE RISER

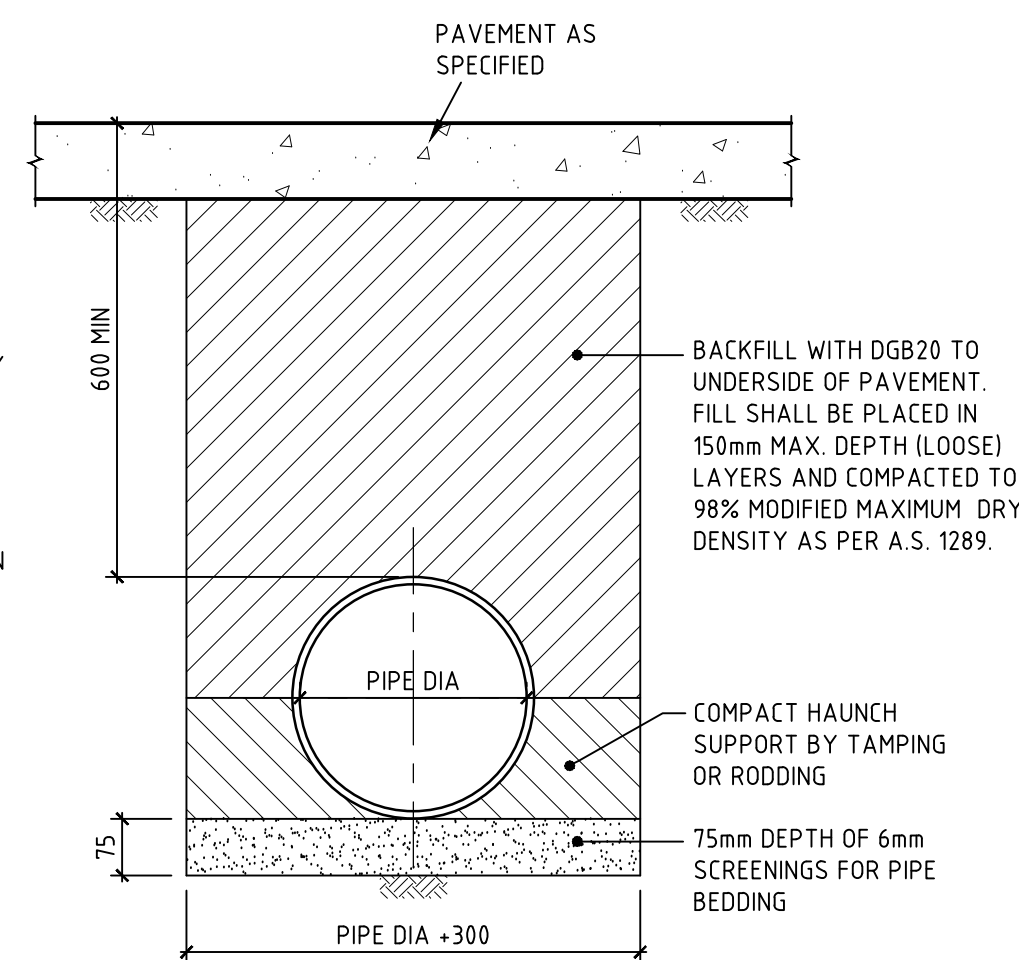
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NOTE: SLOTTED RIGID PVC PIPE AND FITTINGS MAY BE USED



PIPE LAYING DETAIL (ALL PIPES) UNDER LANDSCAPED AREAS

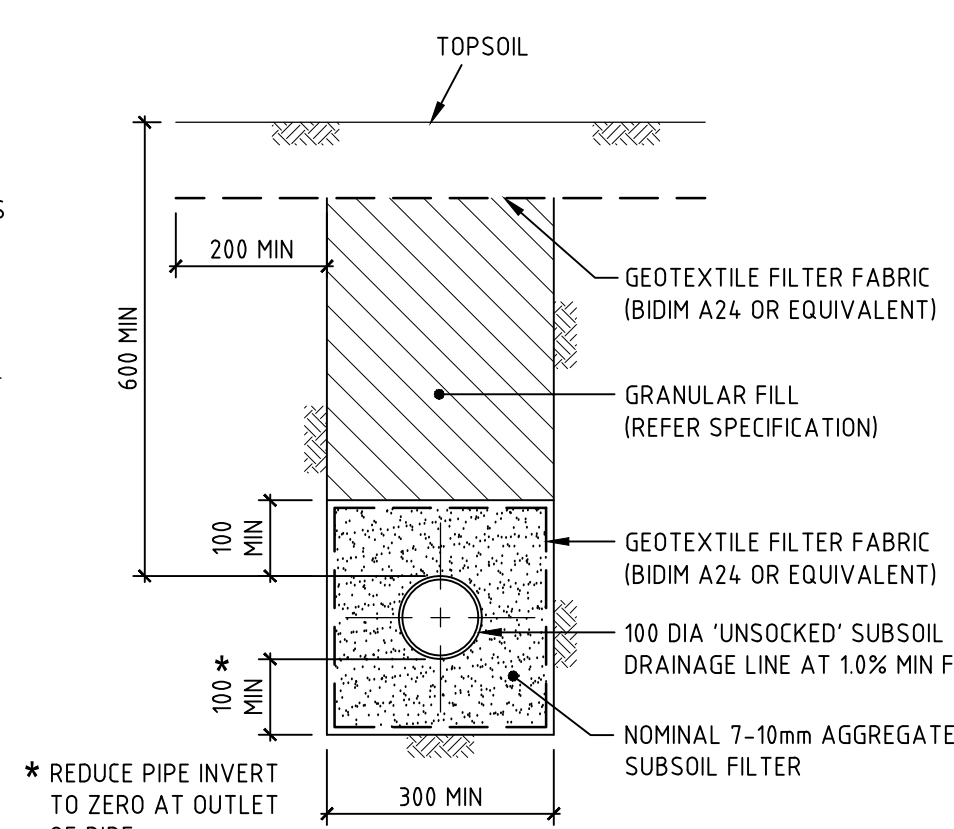
SCALE 1:10



PIPE LAYING DETAILS UNDER ALL PAVEMENTS

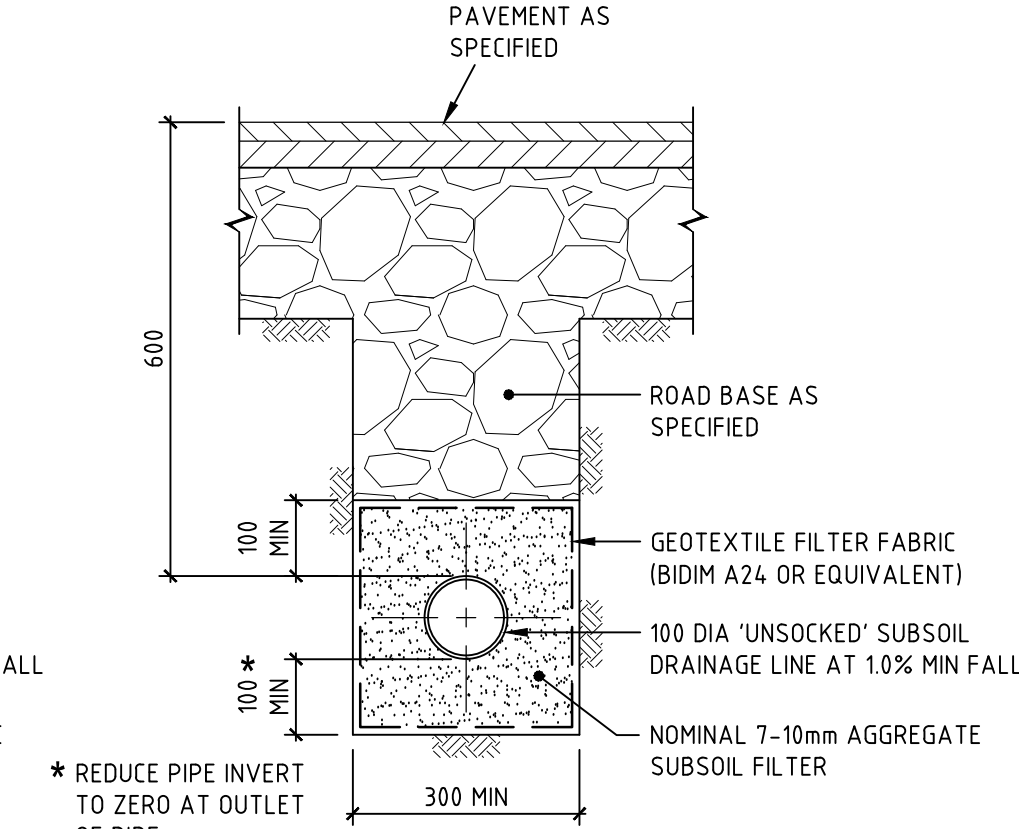
SCALE 1:10

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



SUBSOIL IN LANDSCAPED AREAS

SCALE 1:10



SUBSOIL IN PAVED AREAS

SCALE 1:10

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