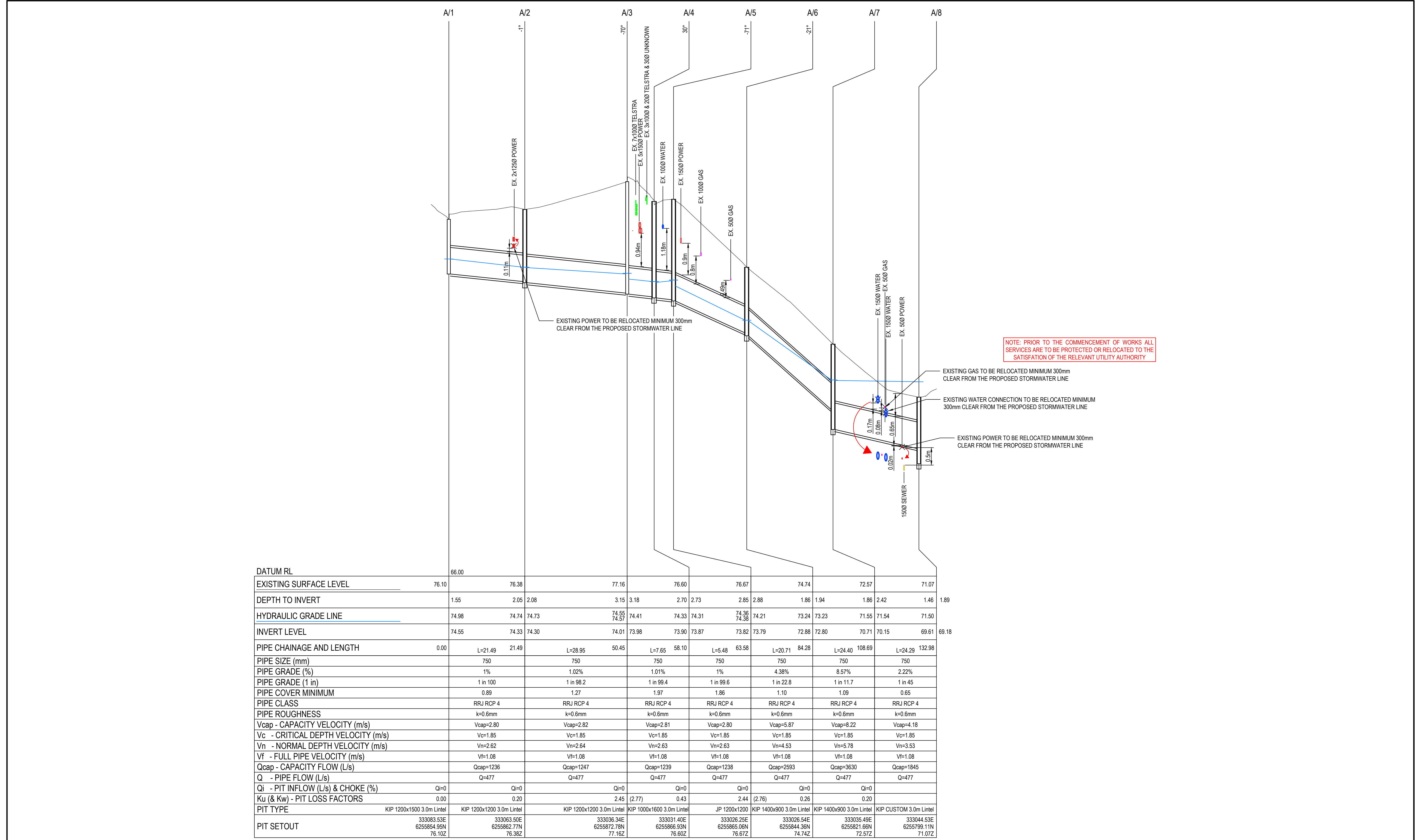




LINE A
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:50

P4	WORK IN PROGRESS	TL	GJ	SH	03-09-25
P3	WORK IN PROGRESS	GJ	SH	SH	31-07-25
P2	WORK IN PROGRESS	GJ	SH	SH	17-07-25
P1	WORK IN PROGRESS	GJ	SH	SH	19-11-24
Issue	Description	DR	CH	VE	Date

Scales

0 0.5 1 1.5 2 3 4 5m

1 : 50 - A1 1 : 100 - A3

0 10 15 20 30 40 50m

1 : 500 - A1 1 : 1000 - A3

Surveyor

Architect

Client

Status

FOR APPROVAL
NOT FOR CONSTRUCTION

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Original Issue Signatures

Drawn	GJ	Original Size	A1
Designed	GJ	Height Datum	AHD
Checked	SH	Grid	MGA(GDA20)
Approved	SH		

Project

NICHOLSON PLACE
ST LEONARDS

Title

STORMWATER DRAINAGE
LONGITUDINAL SECTION

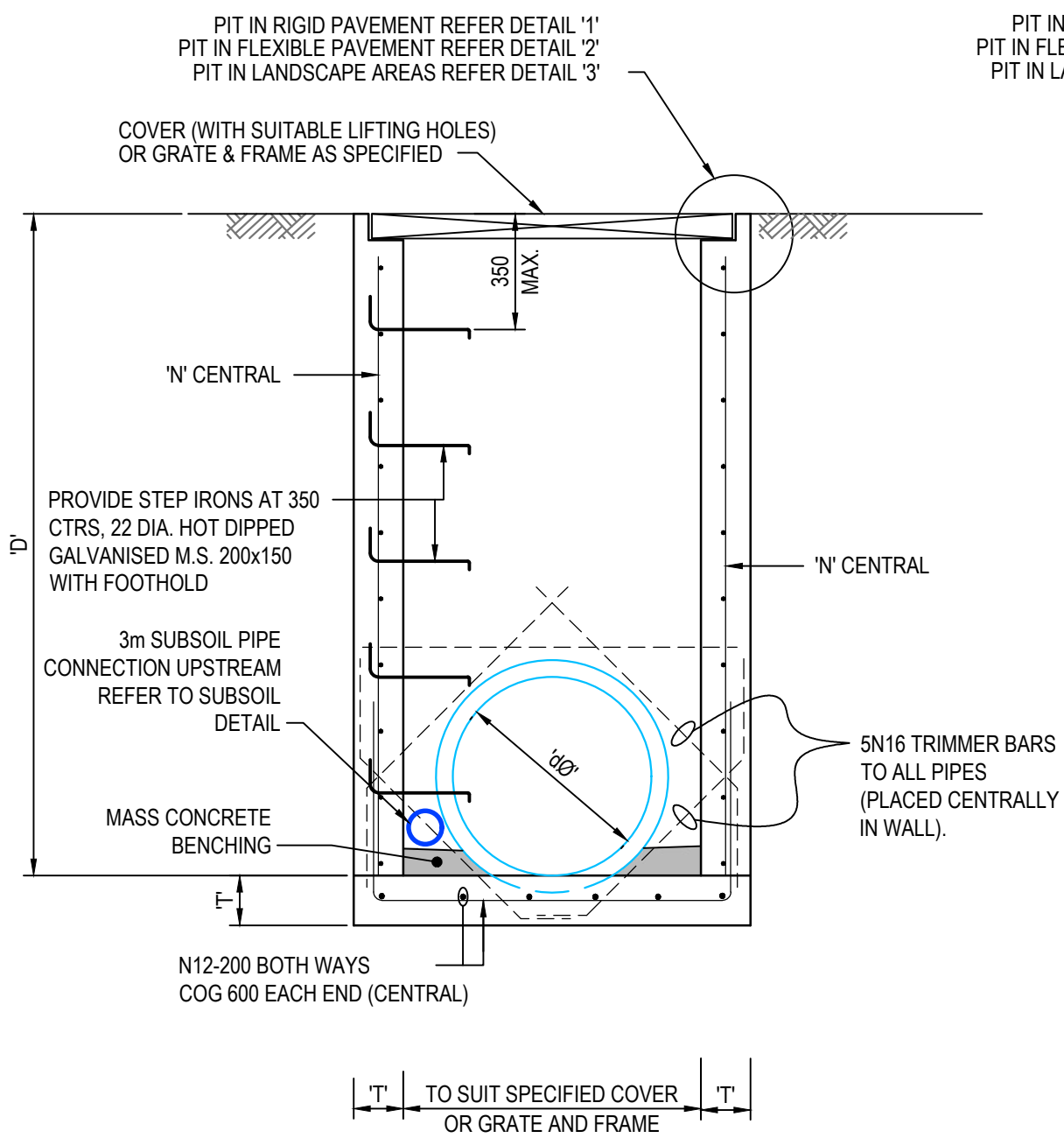
HJ CONSULT

email: info@hjconsult.com.au
www.hjconsult.com.au
ABN: 70 676 907 841

Issue

24-1018-CIV-040

P4



SQUARE FIELD INLET/JUNCTION PIT - TYPE 1

SCALE: 1:20

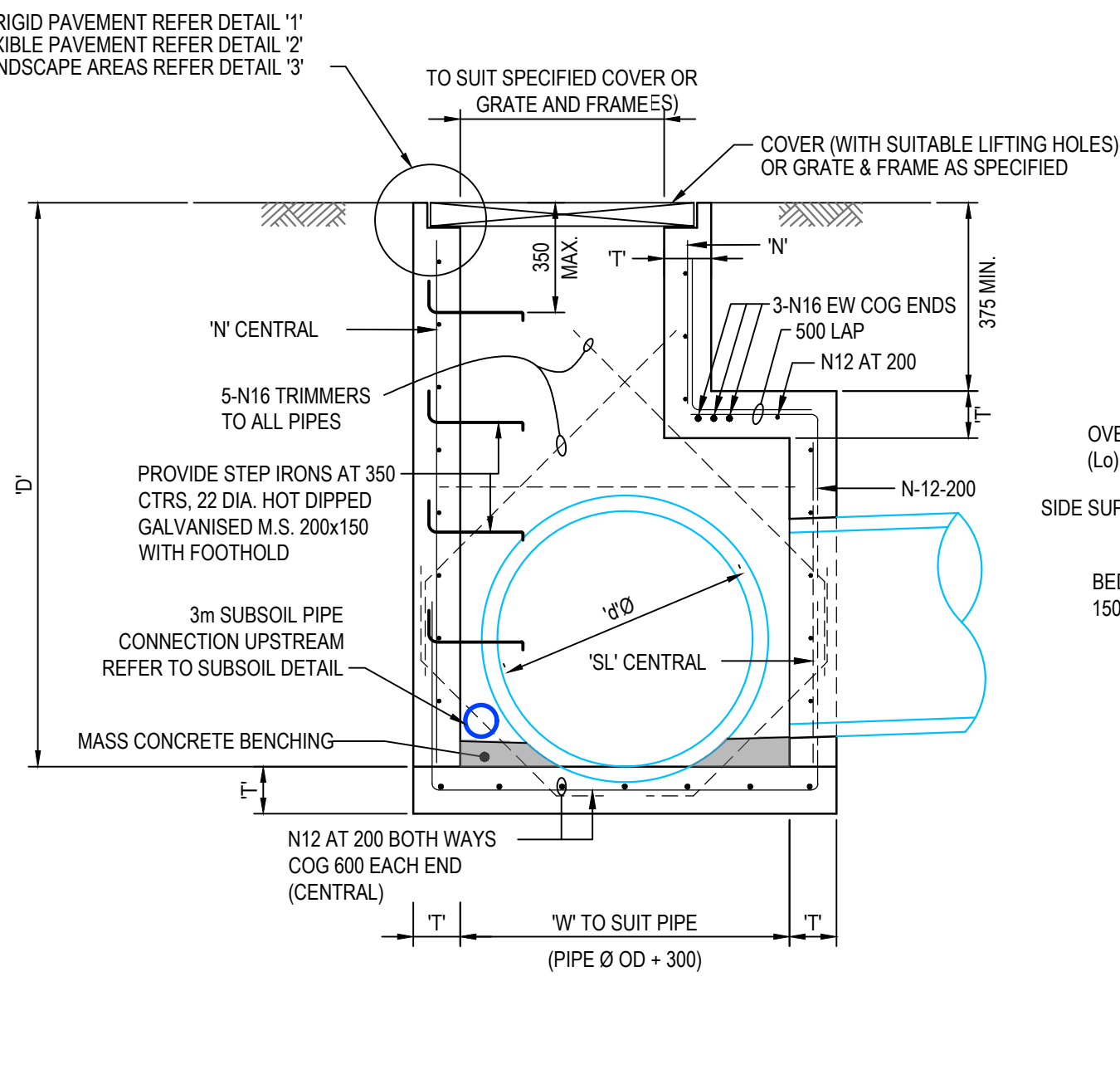
PIPE DIA. 'Ø'	WIDTH 'W'	DEPTH 'D'	WALL 'T'	BARS/MESH 'N'
100-525	600/900	600	150	SL82
	600/900	1200	150	SL82
	600/900	1600	150	SL82
	600/900	2000	150	N12-200
	600/900	2400	150	N12-200

NOTE

- FOR PIT SIZE REFER TO DWG CIV1045 (600 MIN LONG).
- REINFORCING MESH IS TO BE BENT TO LAP 300 AROUND ALL CORNERS. VERTICAL BARS ARE NOT TO BE CUT. ALTERNATLY PROVIDE N12 "L" BARS (500x500) AT 400 VERTICAL CTS.
- COMPRESSIVE STRENGTH (F_c) FOR CAST IN SITU CONCRETE SHALL BE A MINIMUM 32 MPa AT 28 DAYS.
- TOP OF BENCHING SHALL BE $\frac{1}{4}$ OF OUTLET PIPE DIAMETER.
- 100mm SUBSOIL DRAINAGE PIPE 3000 LONG WRAPPED IN FABRIC SOCK TO BE PROVIDE ADJACENT TO INLET PIPES.
- ALL PITS SHALL BE PROVIDED WITH A LOCKING CLIP.
- PIT GRATE TO BE HEEL-SAFE (GRATE AND FRAME CLASS REFER TO PIT SCHEDULE ON C1045)
- DURING INSTALLATION OF GRATE AND FRAME CONTRACTOR IS TO ENSURE CLEARANCE BETWEEN LINTEL AND OPENED GRATE (REFER TO INSTALLATION TOLERANCE).
- PROVIDE STEP IRONS AS INDICATED FOR PITS DEEPER THAN 1200.
- ALL PITS TO BE FOUNDED ON MINIMUM 150 kPa GROUND, TO BE APPROVED ON SITE BY THE GEOTECHNICAL ENGINEER.

ELEMENT	F_c MPa (28 DAYS)	SLUMP	MAX. AGG. SIZE	CEMENT TYPE
PITS	32	80mm	20mm	GP

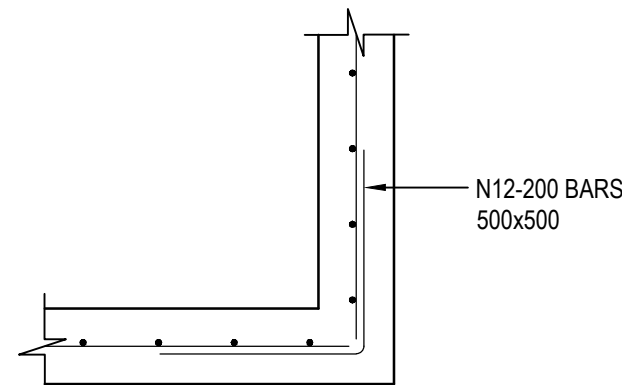
ELEMENT	INTERIOR	EXTERIOR
PITS	45mm	45mm
SLAB TOP	45mm	45mm
SLAB BOTTOM	45mm	45mm



SQUARE FIELD INLET/JUNCTION PIT - TYPE 2

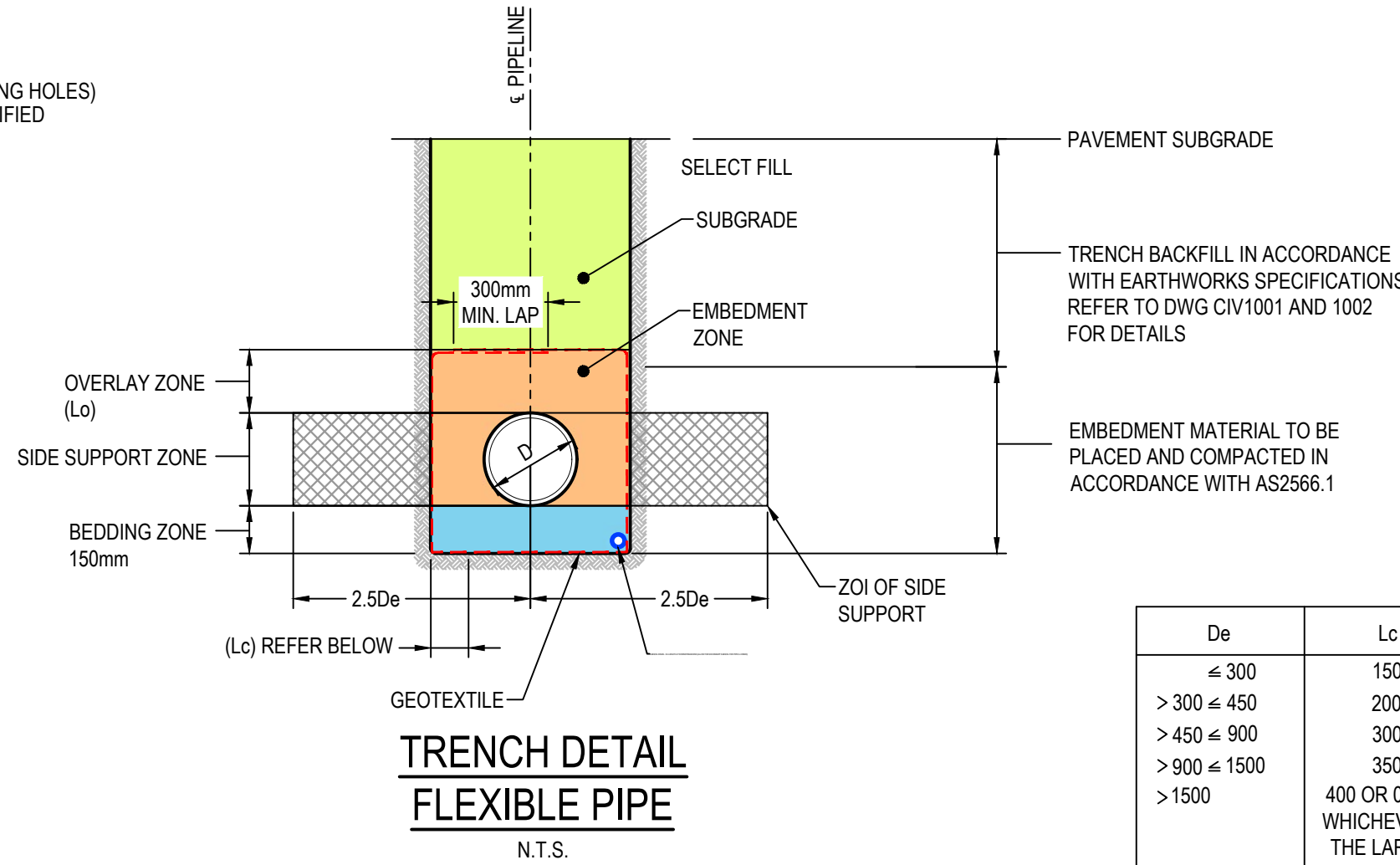
SCALE: 1:20

PIPE DIA. 'Ø'	WIDTH 'W'	DEPTH 'D'	WALL 'T'	BARS 'N'
525-600	600/900	1200	150	N12-200
	600/900	1600	150	N12-200
	600/900	2000	150	N12-200
	600/900	2400	150	N12-200
	600/900	3000	180	N12-200



TYP. CORNER DETAIL

SCALE 1:20



De	Lc	Lo
≤ 300	150	150
> 300 ≤ 450	200	150
> 450 ≤ 900	300	150
> 900 ≤ 1500	350	200
> 1500	400 OR 0.25De WHICHEVER IS THE LARGER	300

FLEXIBLE PIPE TRENCH: TRAFFICABLE AND NON-TRAFFICABLE AREAS

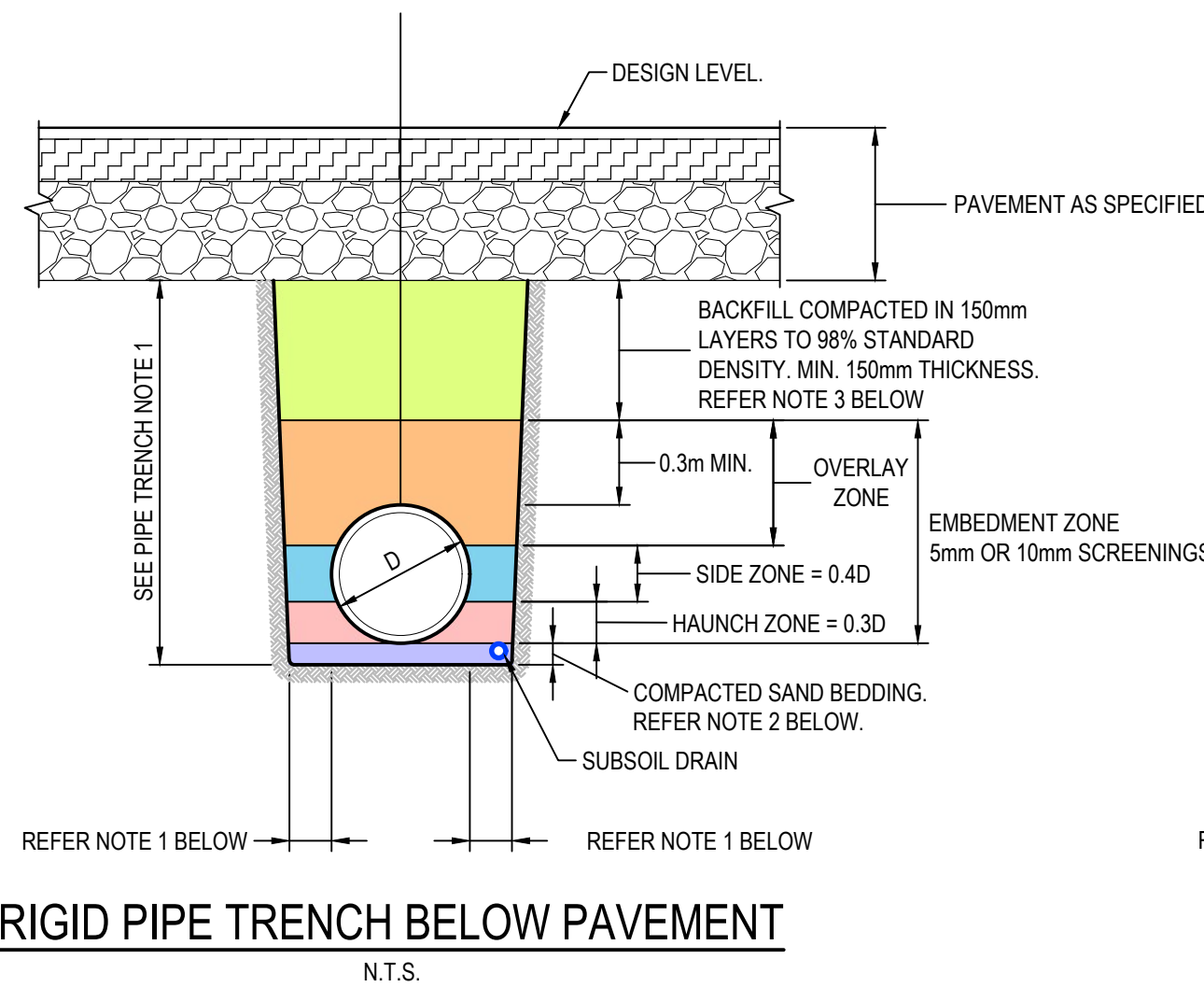
MINIMUM RELATIVE COMPACTION

SOURCE: TABLE 5.5 AS2566.2

SOIL TYPE	TEST METHOD	TRAFFICABLE AREAS		NON TRAFFICABLE AREAS	
		EMBEDMENT MATERIAL %	TRENCH/EMBANKMENT FILL MATERIAL %	EMBEDMENT MATERIAL %	TRENCH/EMBANKMENT FILL MATERIAL %
COHESIONLESS	DENSITY INDEX	70	70	60	COMPACTON WILL DEPEND
COHESIVE	STANDARD DRY DENSITY RATIO (R_{dd}), HLF DENSITY RATIO (R_{ho})	95	95	90	ON SITE REQUIREMENTS

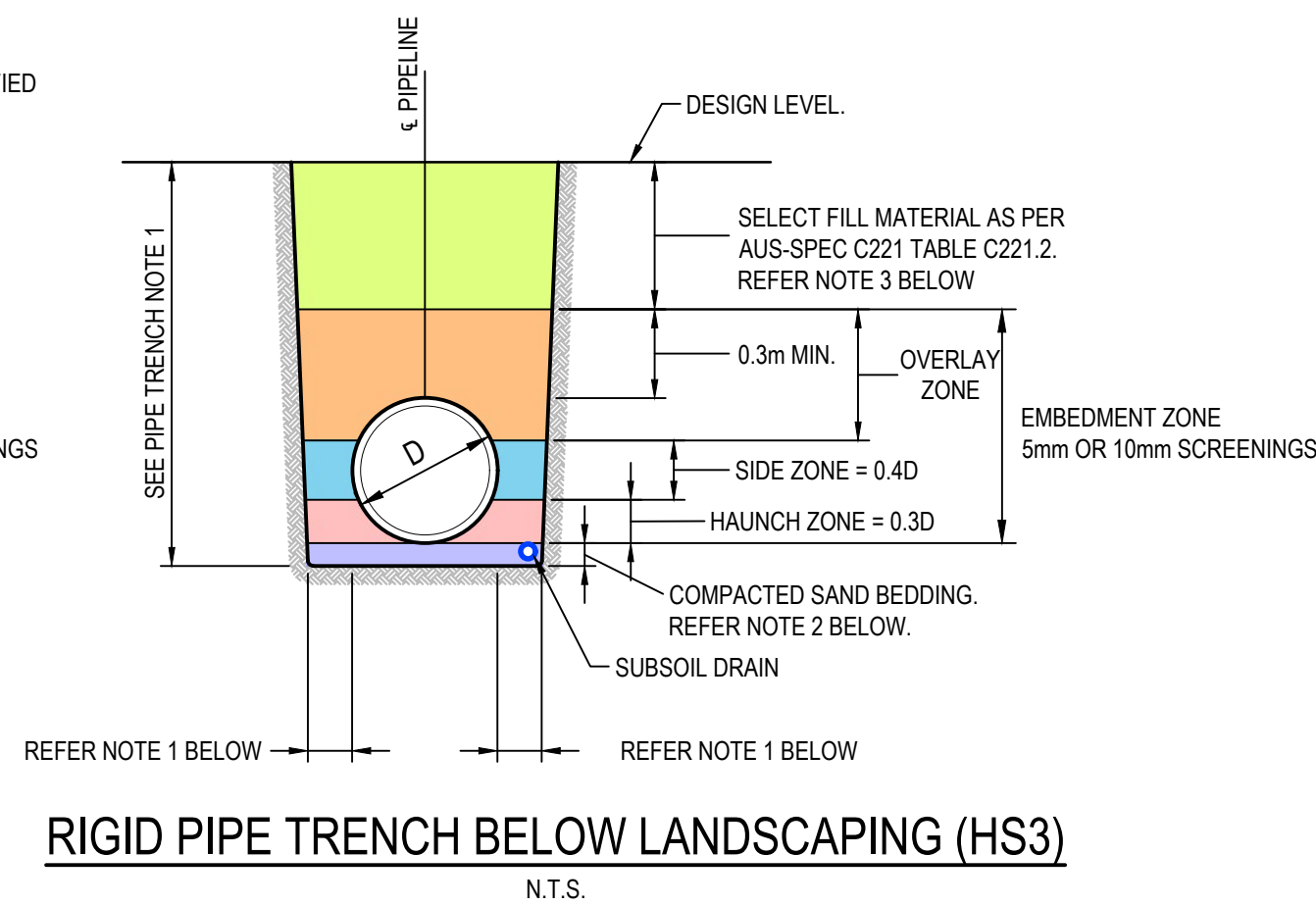
PIPE TRENCH NOTES

- IN UNDERTAKING TRENCH EXCAVATION, THE CONTRACTOR SHALL PROVIDE ANY SHORING, SHEET PILING OR OTHER STABILISATION OF THE TRENCH NECESSARY TO COMPLY WITH OH&S REGULATION REQUIREMENTS. THE SIDES ARE NOT TO BE LOADED & SHALL BE KEPT CLEAR OF LOOSE MATERIAL ETC. SAFE ACCESS & EGRESS SHALL BE PROVIDED AT ALL TIMES.
- THE TRENCH SHALL BE EXCAVATED TO A WIDTH 1.4 TIMES THE EXTERNAL DIAMETER OF THE PIPE, OR TO THE EXTERNAL DIAMETER OF THE PIPE PLUS 300mm ON EACH SIDE, WHICHEVER IS THE GREATER.



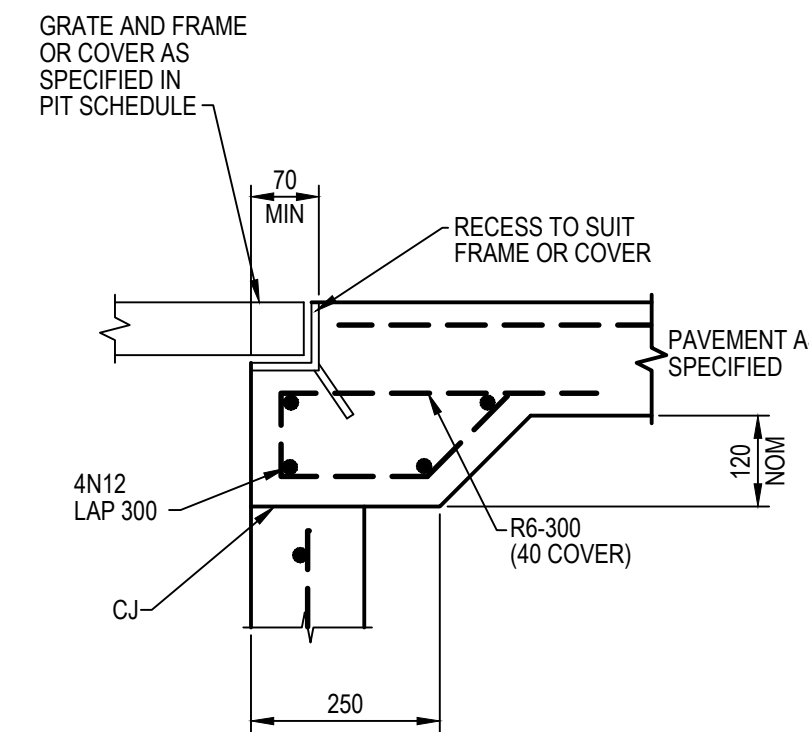
NOTE

- ≥ 0.2D OR 0.3m (WHICHEVER IS GREATER)
- 100mm FOR PIPE DIA. ≤ 1500
- COMPACTED BACKFILL UNDER TRAFFICABLE AREAS: GRANULAR FILL COMPRISING CRUSHED ROCK (75mm MAXIMUM SIZE, NON PLASTIC OPEN GRADED MATERIAL) OR CRUSHER RUN RECYCLED CONCRETE WHERE APPROVED UNDER SPECIAL CIRCUMSTANCES. STABILISED SAND (1 CEMENT TO 12 PARTS SAND BY VOLUME) OR CONTROLLED LONG STRENGTH MATERIAL OR LEAN MIX CONCRETE OR CLASS 3 MATERIAL MAY BE PERMITTED



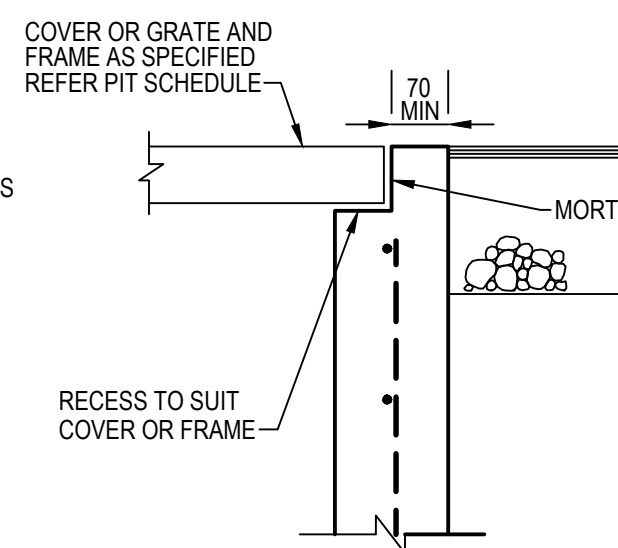
NOTE

- ≥ 0.2D OR 0.3m (WHICHEVER IS GREATER)
- 100mm FOR PIPE DIA. ≤ 1500
- COMPACTED BACKFILL UNDER NON-TRAFFICABLE AREAS: EXCAVATED MATERIALS PROVIDED ADEQUATE COMPACTION CAN BE OBTAINED. ALTERNATIVELY USE GRANULAR FILL SAND



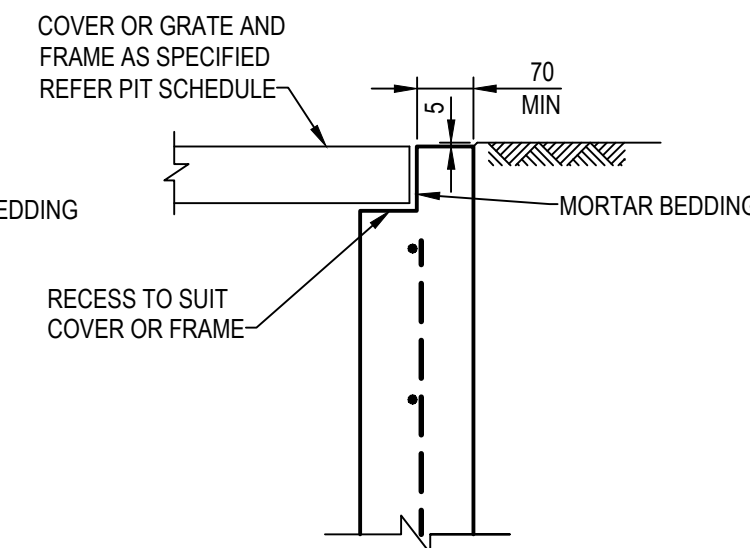
DETAIL "1"

SCALE 1:10



DETAIL "2"

SCALE 1:10



DETAIL "3"

SCALE 1:10

P1	WORK IN PROGRESS	GJ	SH	SH	10-09-25
Issue	Description	DR	CH	VE	Date

Scales	0 0.5 1 1.5 2 3 4 5m	1 : 50 - A1 1 : 100 - A3
	0 10 15 20 30 40 50m	1 : 500 - A1 1 : 1000 - A3

Surveyor	Sdg
Architect	COX

Client	CORONATION
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Status	FOR APPROVAL NOT FOR CONSTRUCTION		
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Original Issue Signatures			
Drawn	GJ	Original Size	A1
Designed	GJ	Height Datum	AHD
Checked	SH	Grid	MGA(GDA20)
Approved	SH		

Project	NICHOLSON PLACE ST LEONARDS
Title	STORMWATER DRAINAGE STANDARD DETAILS SHEET 1

HJ CONSULT	email: info@hjconsult.com.au www.hjconsult.com.au ABN: 70 676 907 841
24-1018-CIV-045	P1



SCALE 1:10
NOTE: SLOTTED RIGID PVC PIPE AND FITTINGS
MAY BE USED SUBJECT TO APPROVAL FROM
DESIGN ENGINEER



SCALE 1:10
NOTE: SLOTTED RIGID PVC PIPE AND FITTINGS
MAY BE USED SUBJECT TO APPROVAL FROM
DESIGN ENGINEER



SCALE 1:1



SCALE 1:10



SCALE 1:10



SCALE 1:1

Scales

0 100 200 300 400 600 800 1000mm

1 : 10 - A1 1 : 20 - A3

0 200 500 750 1000 1500 2000mm

1 : 20 - A1 1 : 40 - A3

Client

CORONATION

Project	NICHOLSON PLACE ST LEONARDS
Title	STORMWATER DRAINAGE STANDARD DETAILS SHEET 2

Drawing No.	Issue
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