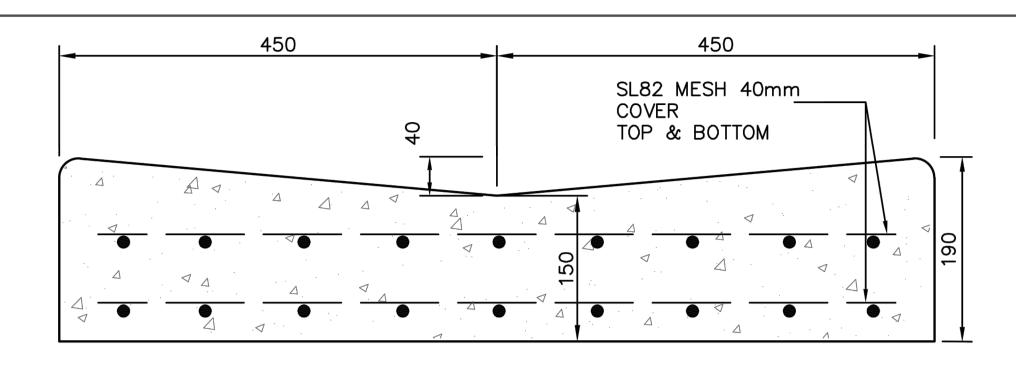
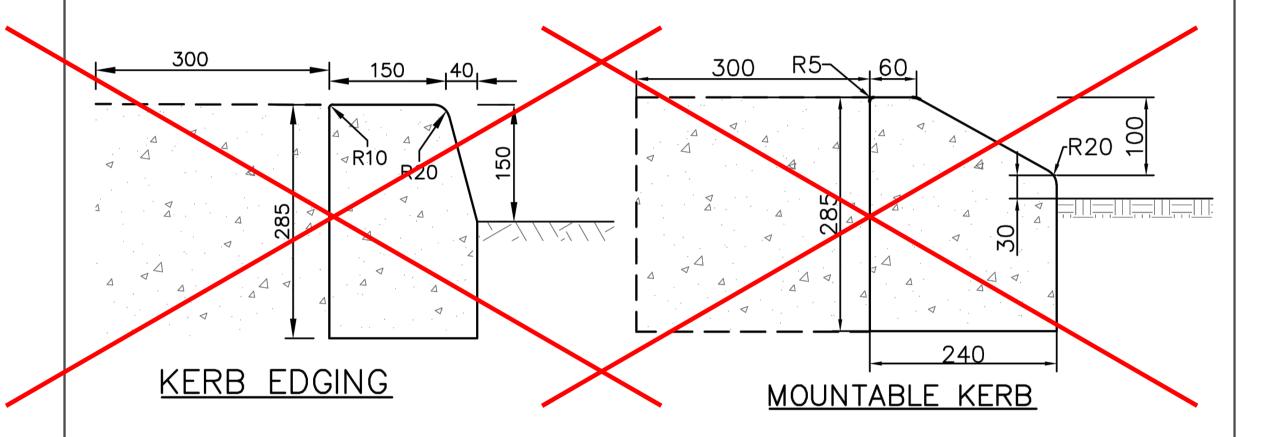


NÉPEAN BUSINESS PARK N.T.S FOR INFORMATION ONLY NOT TO BE USED FOR CONSTRUCTION 11/12/2020 COUNCIL STANDARD DETAILS 200044-DA-C14.11 2



## REINFORCED DISH CROSSING



## <u>NOTES</u>

- 1. CONCRETE COMPRESSIVE STRENGTH (F'c) AT 28 DAYS, TO BE 25MPa FOR KERB & GUTTER AND DISH CROSSINGS.
- 2. ROAD SUB-BASE SHALL BE EXTENDED 300mm BEHIND BACK OF KERB WITH THE THICKNESS TO BE NOT LESS THAN THE ROAD PAVEMENT SUB-BASE THICKNESS.
- 3. GALVANIZED STEEL OR SIMILAR APPROVED STORMWATER KERB ADAPTORS THE FULL HEIGHT OF THE KERB SHALL BE USED. THE KERB OUTLETS ARE TO MATCH THE PROFILE OF THE KERB. SEE SPECIFICATION
- 4. ALL DIMENSIONS ARE IN MILLIMETERS, UNLESS OTHERWISE STATED.
- 5. ALL EXPOSED EDGES TO BE ROUNDED TO 20mm RADIUS UNLESS SHOWN OTHERWISE
- 6. SPECIFICATIONS FOR RECONSTRUCTION WORKS TO BE DETERMINED BY COUNCIL'S ENGINEER.
- 7. SERVICE CONDUIT LOCATIONS SHALL BE MARKED ON KERB FACE WITH AN APPROVED TOOL OR AS OTHERWISE DIRECTED.

DRAWN:

STANDARD KERB & GUTTER,

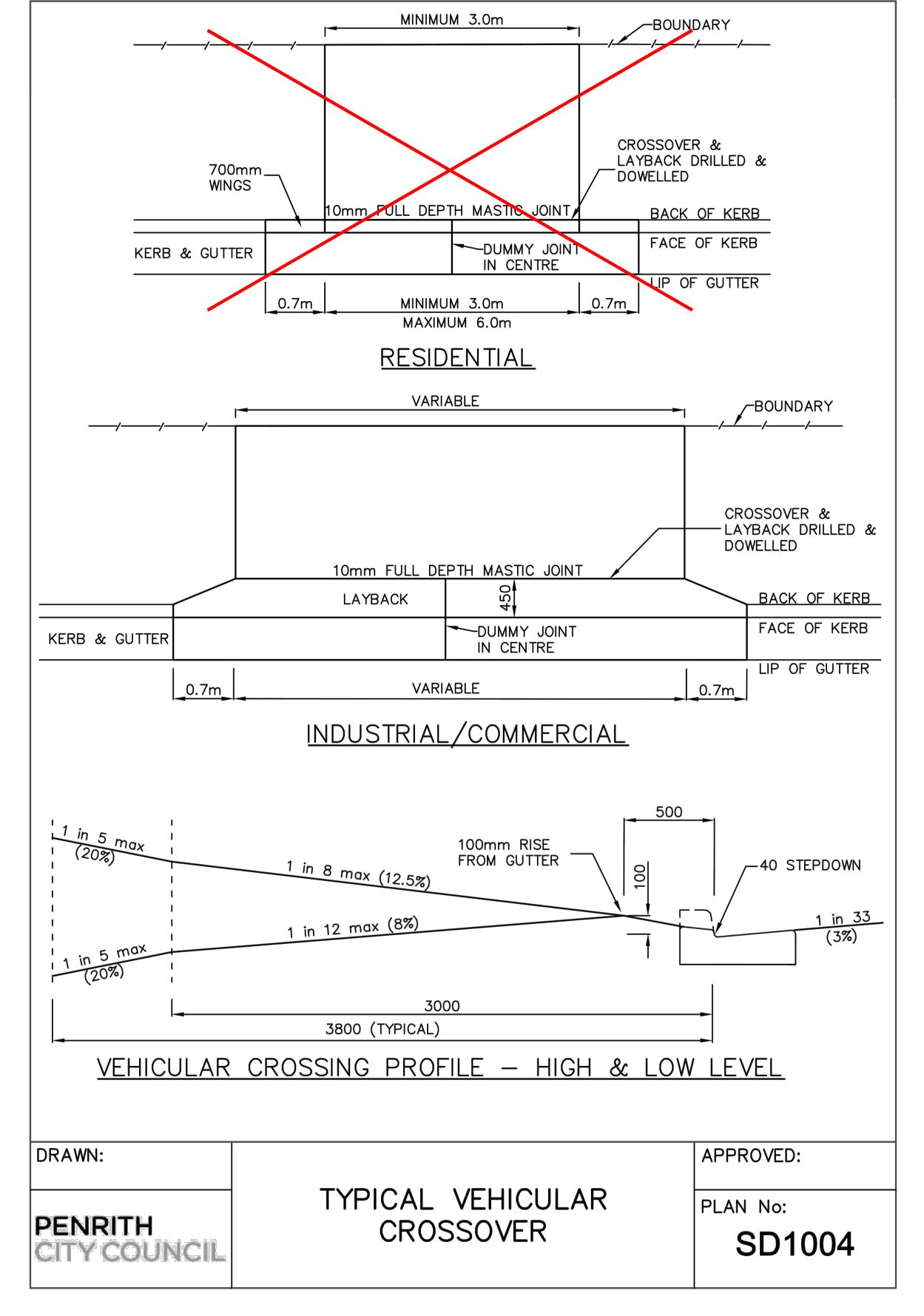
LAYBACKS & DISH CROSSING

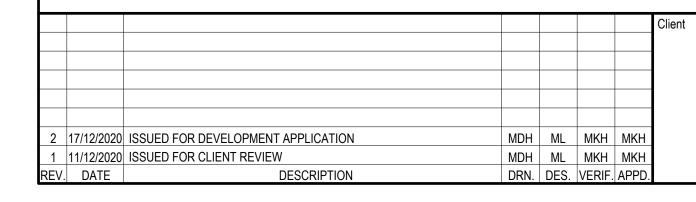
SHEET 2 OF 2

APPROVED:

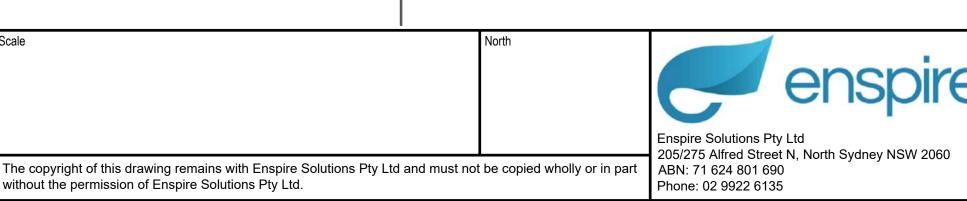
PLAN No:

SD1003/2

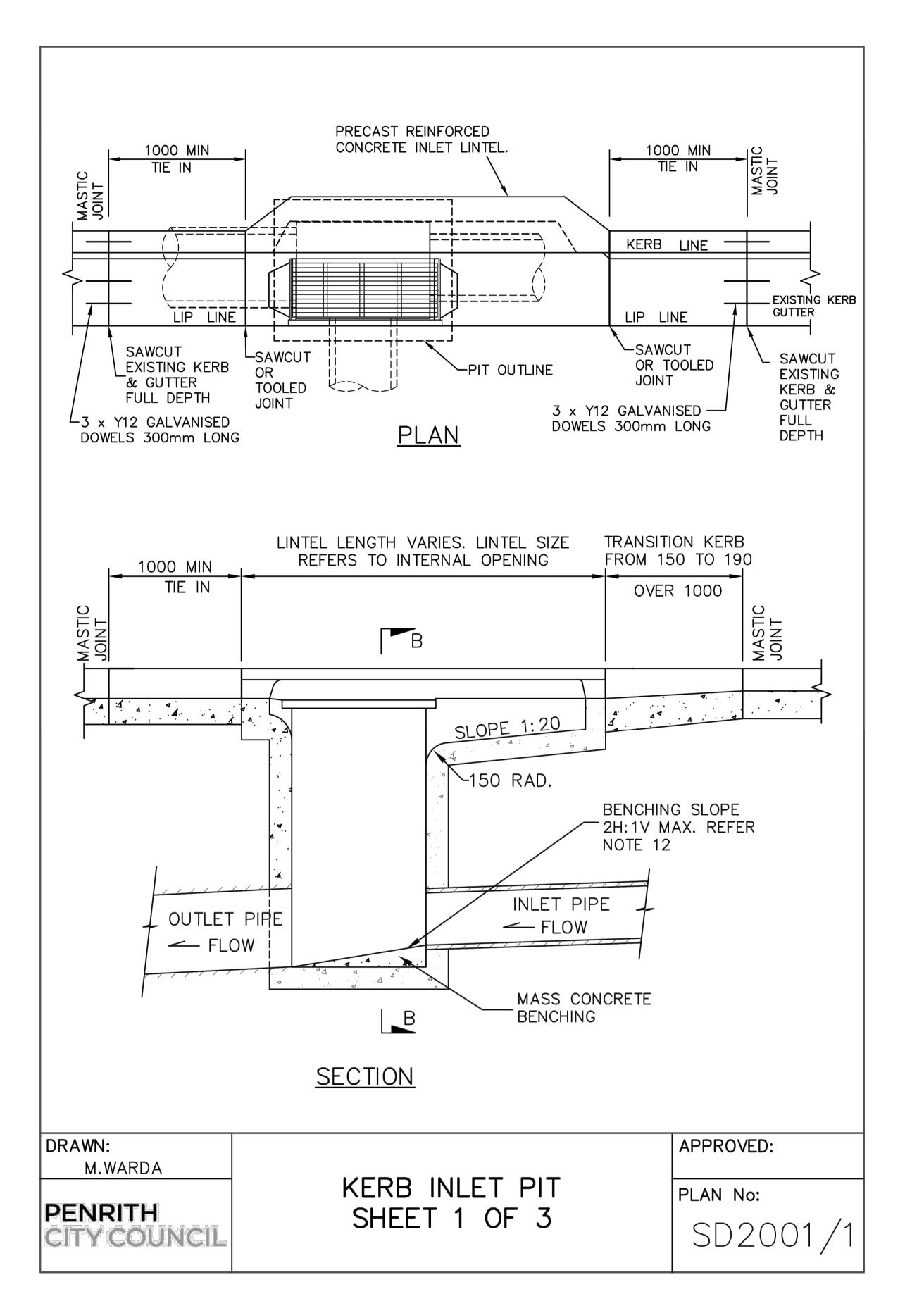


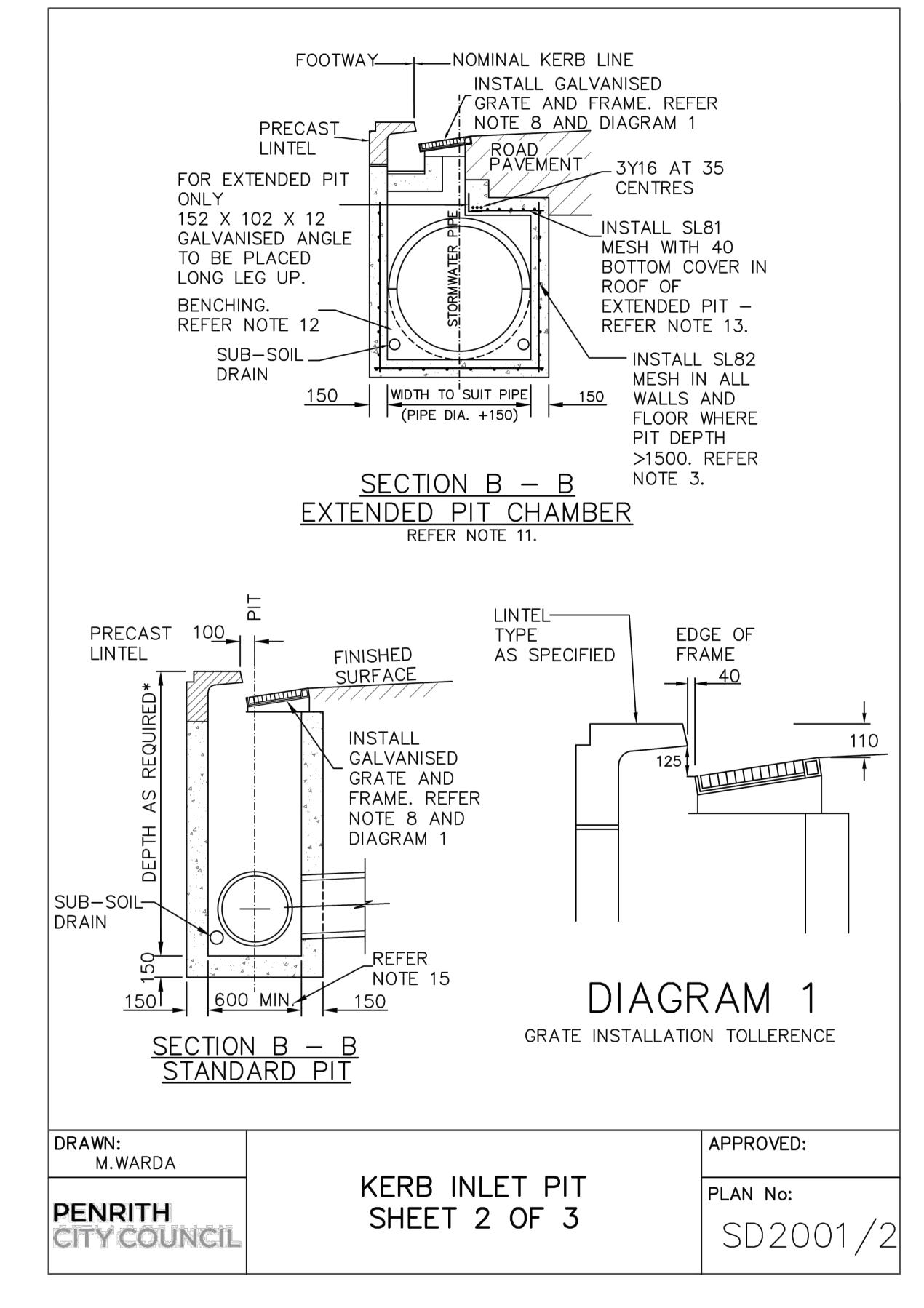


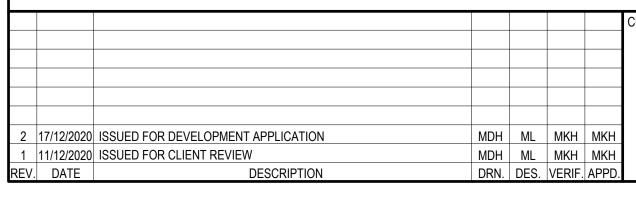




	Project NEPEAN BUSINESS PARK	Scale N.T.S	Status FOR INFORMATION ONLY	
)	PENRITH	Date 11/12/2020	NOT TO BE USED FOR CONSTRUCTION	
	Title		Project Number/Drawing Number	Revision
	COUNCIL STANDARD DETAILS	A1	200044 DA C44 42	<b>၂</b> ၅
	SHEET 02	Datum	200044-DA-C14.12	
		AHD		













EAN BUSINESS PARK	Scale N.T.S	FOR INFORMATION ONLY	
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NCIL STANDARD DETAILS ET 03	A1 Datum	200044-DA-C14.13	2

## NOTES

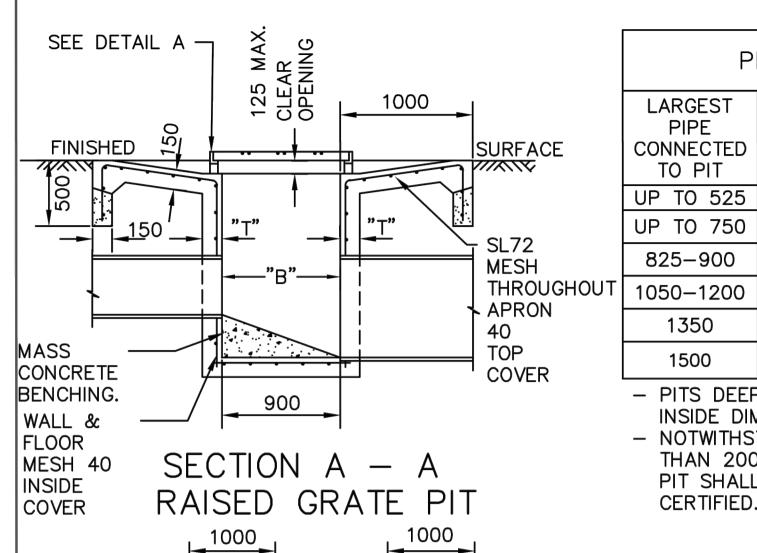
- 1. CONCRETE TO BE 25MPa AT 28 DAYS.
- 2. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE
- 3. WHERE DEPTH OF PIT EXCEEDS 1500, WALLS AND BOTTOM TO BE REINFORCED IN ALL DIRECTIONS WITH SL82 MESH AT 40 COVER TO INSIDE FACE WITH N12 CORNER BARS 300 LEGS AT 400 CENTRES. PITS DEEPER THAN 2000 SHALL BE DESIGNED AND THE CONSTRUCTION CERTIFIED BY A PROFESSIONAL STRUCTURAL ENGINEER.
- 4. TRIMMER BARS TO BE PROVIDED AROUND PIPES GREATER THAN 750 DIAMETER (SEE SD2003).
- 5. SAG PITS TO HAVE LINTEL LOCATED CENTRALLY OVER PIT.
- 6. BACKFILL ADJACENT TO PITS TO BE APPROVED GRANULAR MATERIAL.
- 7. A 3000 LENGTH OF APPROVED "FILTER FABRIC" WRAPPED 100 DIA SUB-SOIL DRAIN IS TO BE PROVIDED AND CONNECTED THROUGH THE UPSTREAM PIT WALL AT THE INVERT LEVEL OF THE UPSTREAM PIPE.
- 8. PIT GRATE AND FRAME TO BE "WELDLOK" GG51—D GULLY GRATE WITH SKIRTED BASE OR EQUIVALENT FOR ALL ROADS, FITTED WITH A LOCKABLE "J" BOLT OR EQUIVALENT.

  FOR SAG PITS, USE WELDLOK GG SB 94 SD GULLY GRATE OR EQUIVALENT.
- 9. APPROVED STEP IRONS SHALL BE PROVIDED WHERE THE PIT EXCEEDS 1000 IN DEPTH. THEY SHALL BE LOCATED AS DIRECTED AND STAGGERED TO GIVE 300 SPACING VERTICALLY AND 300 SPACING HORIZONTALLY.
- 10. THE CENTRE LINES OF INTERSECTING PIPES ARE TO MEET AT THE DOWNSTREAM FACE OF THE PIT WHERE POSSIBLE.
- 11. WHERE ENTERING PIPE EXCEEDS 450 IN DIAMETER, PIT CHAMBER TO BE EXTENDED AS PER SECTION B-B 'EXTENDED PIT CHAMBER'.
- 12. FLOOR OF PIT TO BE BENCHED TO MID POINT OF OUTLET PIPE WHERE OUTLET PIPE GREATER THAN 600 DIAMETER.
- 13. WHERE EXTENDED CHAMBER WIDTH EXCEEDS 1200, ROOF REINFORCEMENT TO BE DESIGNED BY A PROFESSIONAL STRUCTURAL ENGINEER.
- 14. CONTRACTOR TO ENSURE CLEARANCE BETWEEN LINTEL AND OPENED GRATE. REFER DIAGRAM 1.
- 15. WHERE DEPTH OF PIT IS GREATER THAN 1200, INTERNAL WIDTH OF PIT TO BE INCREASED TO 900×900 FOR FULL DEPTH BELOW PAVEMENT.
- 16. LIFTING LUGS TO BE FILLED AFTER INSTALLATION.

DRAWN:
M.WARDA

KERB INLET PIT
SHEET 3 OF 3

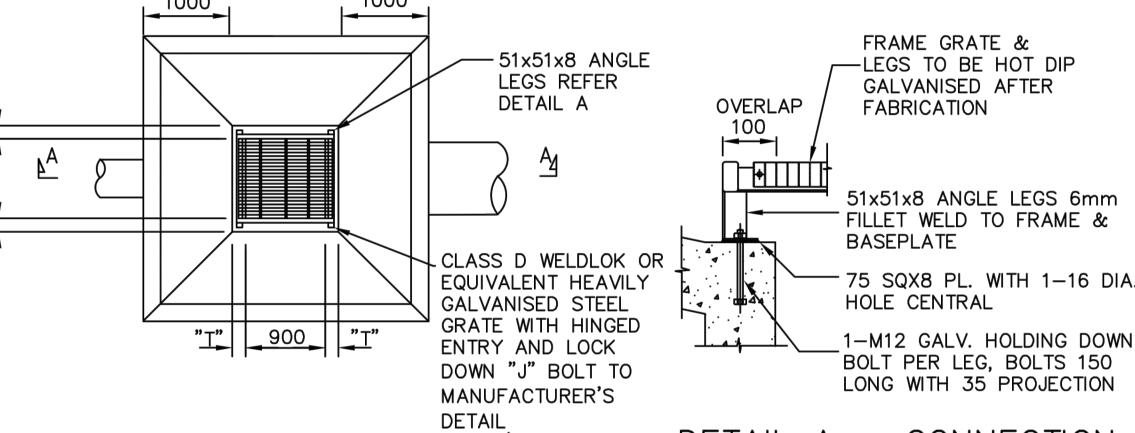
PLAN No:
SD2001/3



PIT DIMENSIONS & MESH								
LARGEST PIPE CONNECTED TO PIT	INTERNAL PIT DIMENSION "B"	WALL THICKNESS DIMENSION "T"	MESH (WALLS eg. & FLOOR ONLY)					
UP TO 525	900	150	SL72					
UP TO 750	900	150	SL72					
825-900	1000	150	SL72					
1050-1200	1400	150	SL82					
1350	1550	200	SL82					
1500	1700	200	SL102					

 PITS DEEPER THAN 1.2m SHALL BE 900X900mm INSIDE DIMENSION.

 NOTWITHSTANDING THE ABOVE TABLE, PITS DEEPER THAN 2000mm INVERT OF GUTTER TO INVERT OF PIT SHALL BE STRUCTURALLY DESIGNED &

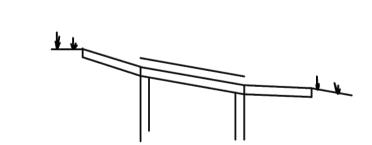


TYPICAL DETAIL SURFACE INLET PIT OF RAISED GRATE TO PIT TO SUIT PIPES UP TO 1500mm DIA.

## NOTES.

- 1. ALL CONCRETE TO BE MINIMUM 25MPa UNLESS OTHERWISE NOTED.
- 2. APPROVED STEP IRONS SHALL BE PROVIDED WHERE THE PIT EXCEEDS 900mm IN DEPTH. THEY SHALL BE LOCATED AS DIRECTED AND STAGGERED TO GIVE 300mm SPACING VERTICALLY AND 300mm SPACING HORIZONTALLY. LOCATE HINGES OF GRATES TO SUIT STEP IRONS.
- 3. GRATES MUST BE CLASS D.
- 4. ALL CONCRETE WORK TO BE A MINIMUM OF 150mm THICK.
- 5. MASS CONCRETE BENCHING TO PIPE CENTRELINE MUST BE PROVIDED AS INDICATED.
- S. WHERE SITE CONDITIONS DICTATE, THE SUPERVISING ENGINEER MAY INCLINE THE PIT TOPS TO AN UPPER LIMIT OF 1 VERT. IN 4 HORIZ. NO ALTERATION TO REINFORCEMENT IS REQUIRED, HOWEVER, THE ENTIRE PIT ROOF (AND ACCOMPANYING APRONS) ARE TO REMAIN PLANAR.

DETAIL A - CONNECTION



7. ALL DIMENSION ARE IN mm UNLESS OTHERWISE NOTED.

DRAWN:		APPROVED:
W.KONG	STANDARD GRATED	
PENRITH	SURFACE INLET PITS	PLAN No:
effy council		SD2002

2 17/12/2020 ISSUED FOR DEVELOPMENT APPLICATION MDH ML MKH MKH
1 11/12/2020 ISSUED FOR CLIENT REVIEW MDH ML MKH MKH
REV. DATE DESCRIPTION DRN. DES. VERIF. APPD.



Scale

North

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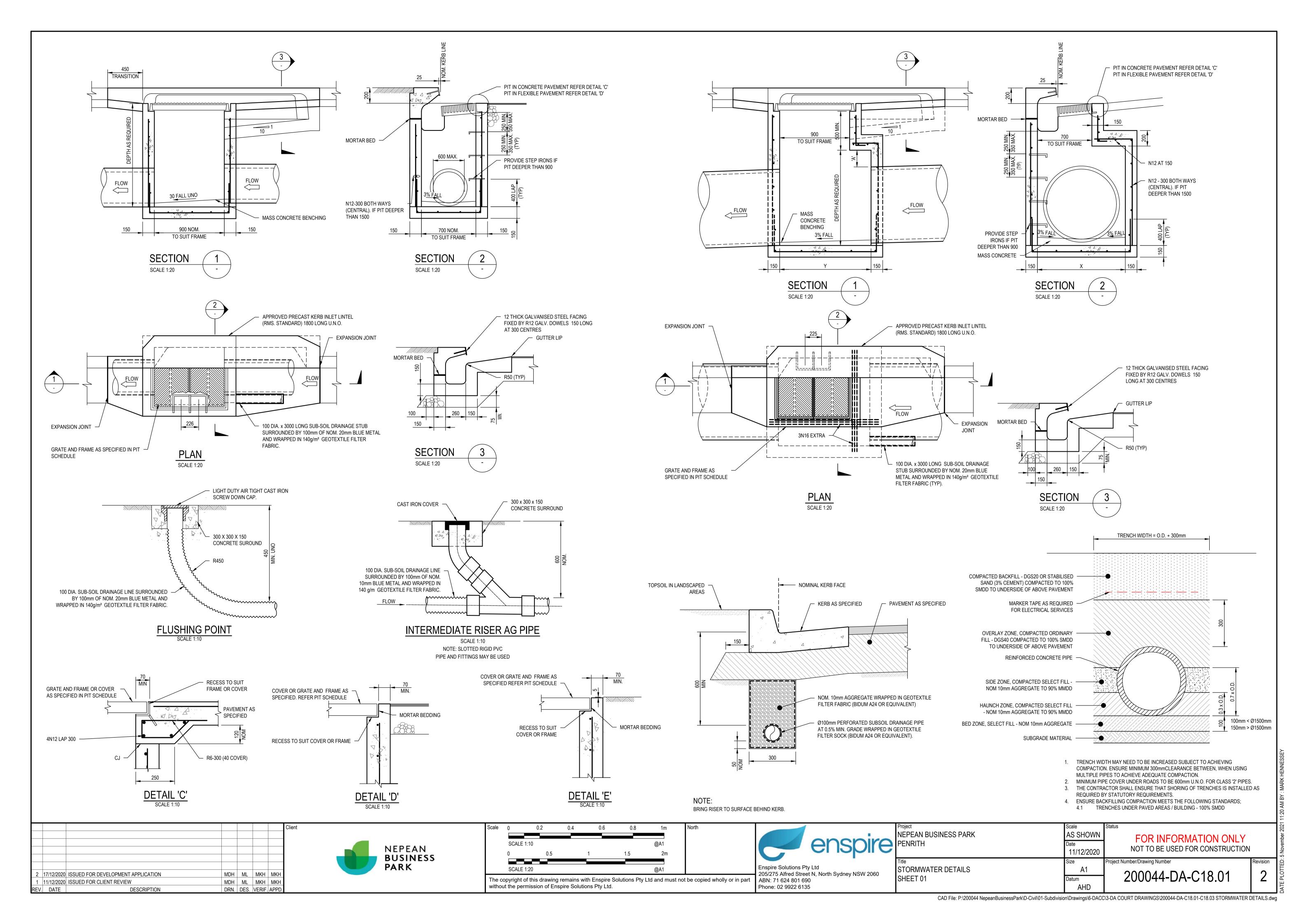
Project NEPEAN BUSINESS PARK PENRITH	
Title COUNCIL STANDARD DETAILS SHEET 04	

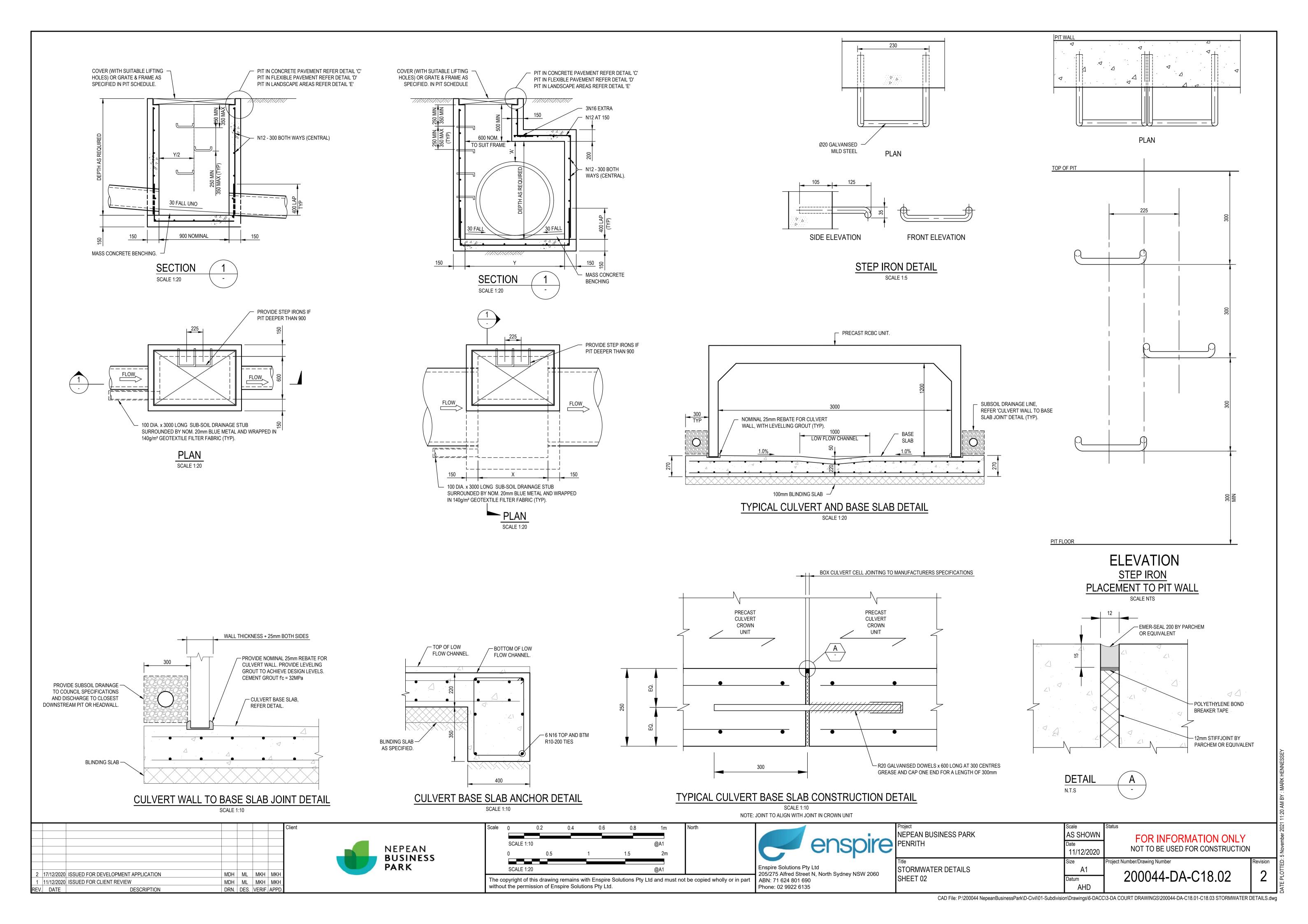
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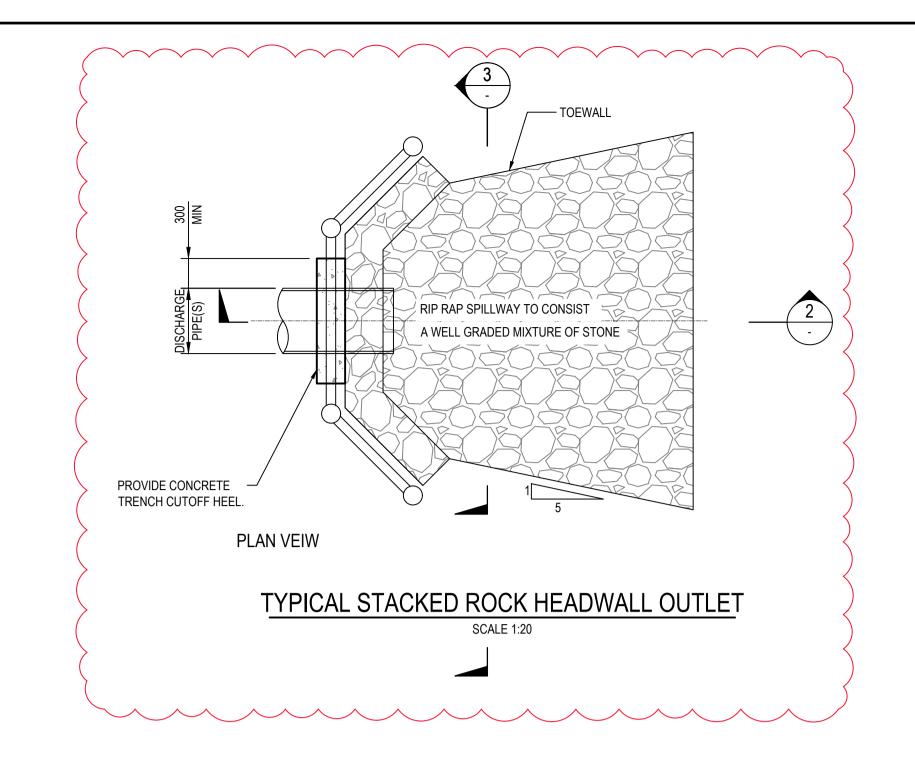
Datum AHD 200044-DA-C14.14 2

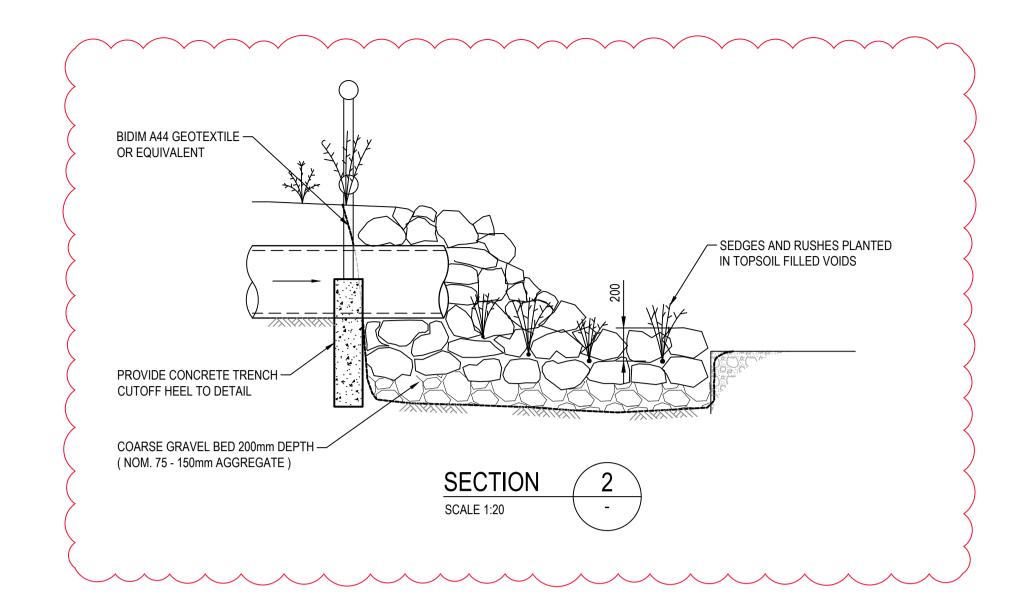
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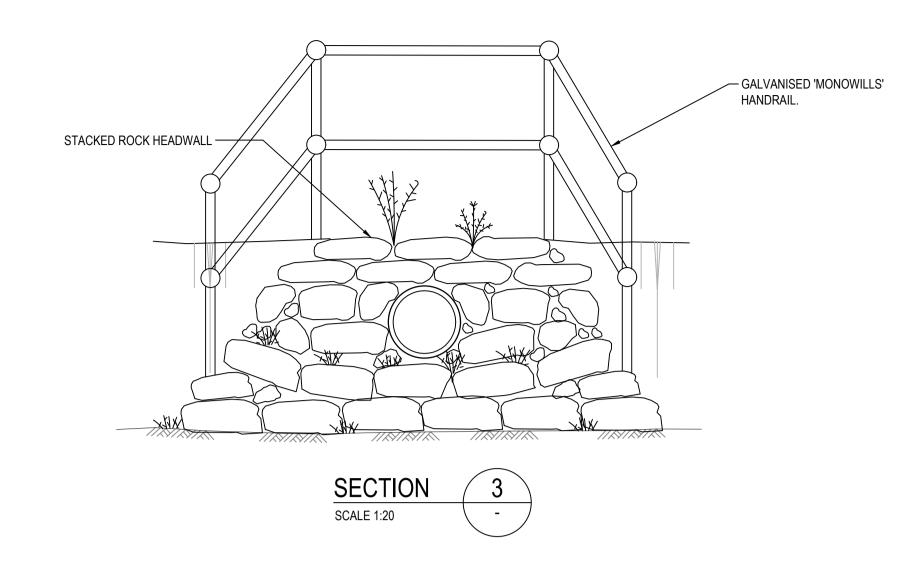
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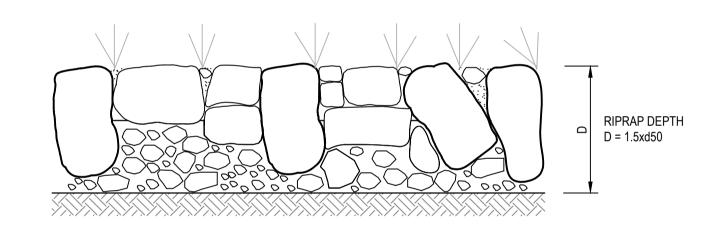






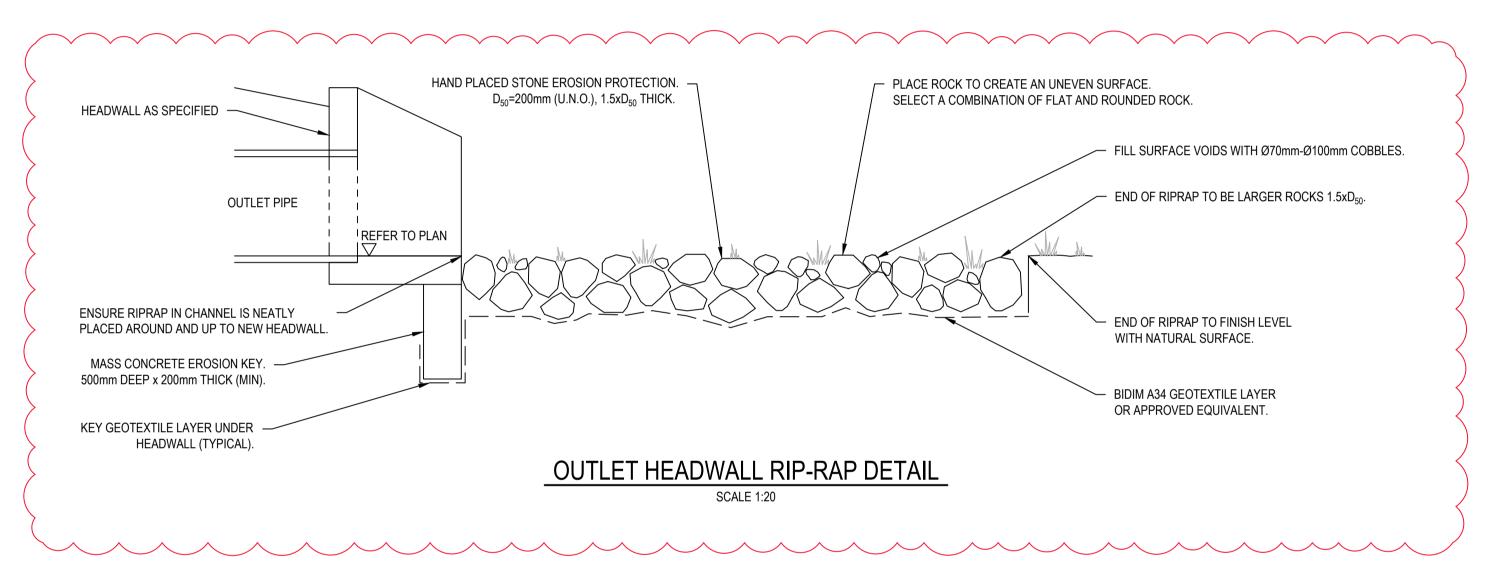






RIP-RAP DETAIL

SCALE 1:20



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3	4/11/2021	ISSUED FOR INFORMATION	MDH	ML	MKH	MKH	
2	17/12/2020	ISSUED FOR DEVELOPMENT APPLICATION	MDH	ML	MKH	MKH	
1	11/12/2020	ISSUED FOR CLIENT REVIEW	MDH	ML	MKH	MKH	
REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.	



Scale	0	500	1000	1500	2000mm	North	
	SCALE 1:20				@A1		
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part	Enspire Solutions Pty Ltd 205/275 Alfred Street N, North Sydney NSW 2060 ABN: 71 624 801 690 Phone: 02 9922 6135	Title ST SH

	Project	Scale	Status	
1	NEPEAN BUSINESS PARK	AS SHOWN	FOR INFORMATION ONLY	
	PENRITH	Date		
		11/12/2020	NOT TO BE USED FOR CONSTRUCTION	
	Title	Size	Project Number/Drawing Number	Revision
	STORMWATER DETAILS	A1	200044 DA C40 02	<b>9</b>
	SHEET 03	Datum	200044-DA-C18.03	J
		AHD		