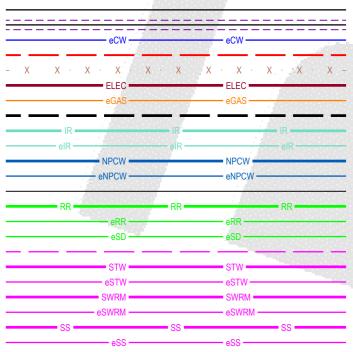
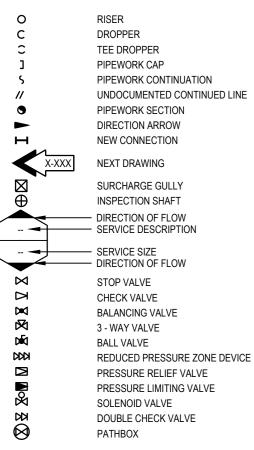
# **27 GRENFELL AVENUE NORTH NARRABEEN DEVELOPMENT APPLICATION**

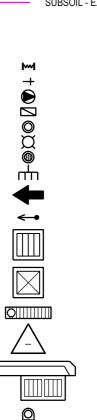
# STORMWATER SERVICES LEGEND

## **PIPEWORK SYMBOLOGY & ABBREVIATIONS**



#### SYMBOLS





AMENDMENT

COLD WATER - EXISTING

DISCONNECTED SERVICE

GAS SERVICE - EXISTING

**IRRIGATION LINE - EXISTING** 

NON-POTABLE COLD WATER

NON-POTABLE COLD WATER - EXISTING

ELECTRICAL SERVICE

INSET BORDER

**IRRIGATION LINE** 

PLANT LINE

CASTIN

CONDUIT

**RAINWATER RE-USE** RAINWATER RE-USE - EXISTING SANITARY DRAINAGE - EXISTING STORMWATER CATCHMENT STORMWATER DRAINAGE STORMWATER DRAINAGE - EXISTING STORMWATER RISING MAIN STORMWATER RISING MAIN - EXISTING SUBSOIL SUBSOIL - EXISTING EXPANTION JOINT HOSE TAP PUMP CONTROL PANEL CLEAROUT TO SURFACE BOUNDARY TRAP

#### OVERLAND FLOW ARROW

RAINWATER OUTLET

SPREADER

STORMWATER FLOW ARROW STORMWATER GRATE

STORMWATER COVER

TRENCH GRATE

REVISION



RAINWATER HEAD

KERB ENTRY PIT

### **ABBREVIATIONS**

ADD	KEVIA HUNJ
DRAINAGE PI	PING SYSTEMS
BT	Boundary trap
CO	Clear Out
DP	Downpipe
GD	Grated Drain
GO	Gutter Outlet
10	Inspection Opening
IS	Inspection Shaft
KIP	Kerb Inlet Pit
O/F	Overflow
ORG	Overflow Relief Gully
PO	Planter Outlet
RWH	Rain Water Head
RO	Rainwater Outlet
SDO	Spoon Drain Outlet
SWP	Stormwater Pit
	Trench Grate
TG	Trench Grate
VALVES	
BV	Ball Valve
CV	Check Valve
DCV	Double Check Valve
ECV	Expansion Control valve
FGV	Gate Valve
PLV	Pressure Limiting Valve
PRV	Pressure Reduction Valve
RPZD	Reduced Pressure Zone Device
SV	Stop Valve
VB	Vacuum Breaker
FLUID FLOW	
kPa	Kilopascal
L d	Litres
L/s	Litres Per Second
m.HEAD	Metres Head
m/s	Metres per Second
m³/hr	Cubic Metres per Hour
FIXTURES	
HT	Hose Tap
MATERIALS	_
BR	Brass
CI	Cast Iron
CP	Chrome Plated
CICL	Cast Iron Cement Lined
Cu	Copper
DICL	Ductile Iron Cement Lined
FRC	Fibre Reinforced Concrete
GAL	Galvanised
GMS	Galvanised Mild Steel
HDPE	High Density Polyethylene
MDPE	Medium Density Polyethylene
MS	Mild Steel
NY	Nylon
PEX	Cross Linked Polyethylene
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe
S/S	Stainless Steel
UPVC	Unplasticised Polyvinal Chloride
VCP	Vitrified Clay Pipe

LEVELS BWL CL FFL FSL GL H/L ΗP L/L mm RL SL SOB SOS SSL TWL U/S WL MISCELLANEOUS AS BCA CIC CIS DIA DWG EJ ELEC HD HV ID LD LV MIN MJD NTS OD RHS SQ ΤВ TEL TYP UNO UV

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## **ABBREVIATIONS** cont.

Australian Height Datum Bottom Water Level Ceiling Level Finished Floor Level Finished Surface Level Ground Level High Level High Point Invert Level Low Level Metre Millimetres Reduced Level Surface Level Soffit of Beam Soffit of Slab Structural Slab Leve Top Water Level Underside Water Leve

Australian Standards
Building Code Of Australia
Cast In Column
Cast In Slab
Diameter
Drawing
Expansion Joint
Electrical Service
Heavy Duty
High Voltage
Inside Diameter
Light Duty
Low Voltage
Minimum
Movement Joint Drain
Not To Scale
Outside Diameter
Rectangular Hollow Section
Square
Thrust Block
Telecommunication Service
Typical
Unless Noted Otherwise
Ultra Violet

NOTE: THIS IS A STANDARD LEGEND. ALL SYMBOLS MAY NOT NECESSARILY BE USED IN THESE DRAWINGS.

Project: 27 GRENFELL AVENUE NORTH NARRABEEN	Drawing Title: STORMWATER SERVICES COVER SHEET & LEGEND	North Point:	Design: JAS	ON WHITFORD
			Drawn: JAS	ON WHITFORD
		Job No: H420044	Scale: (A2) N.T.S	
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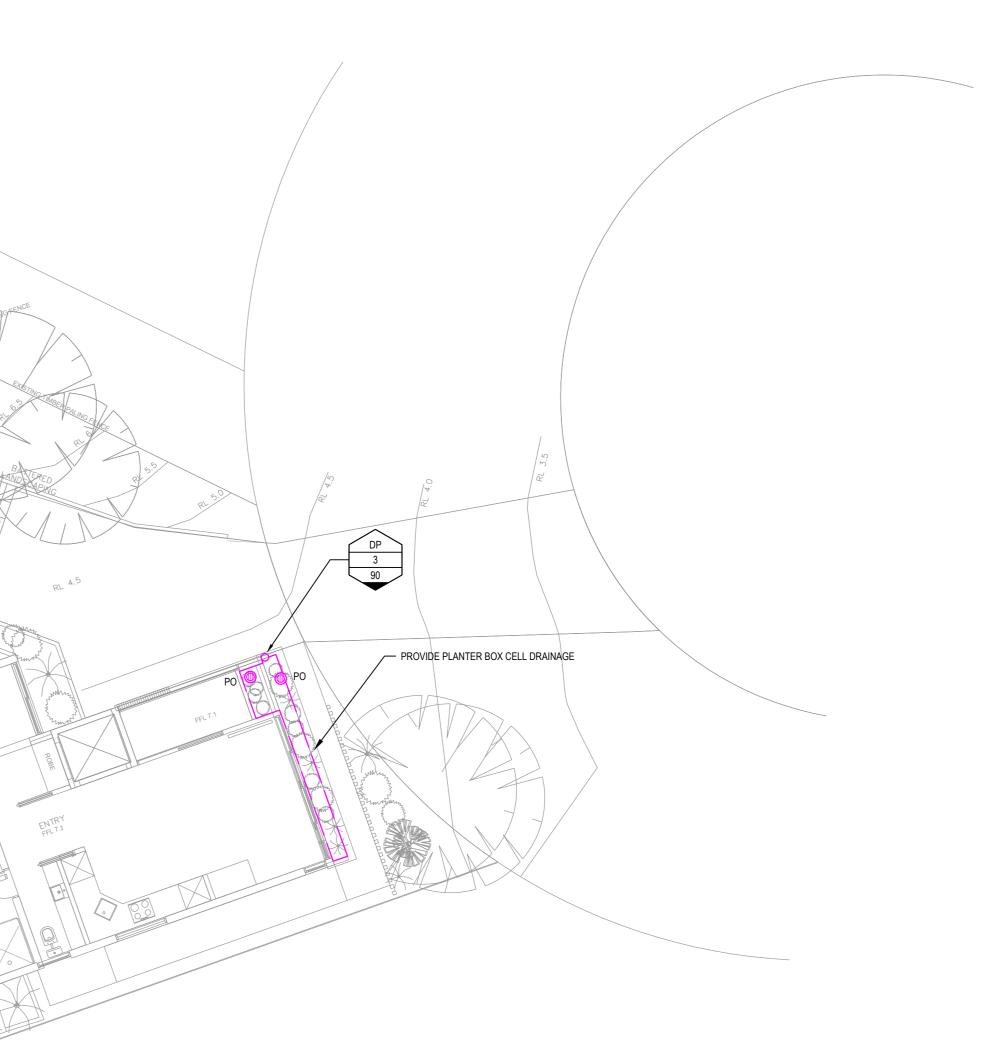
	- 300SQ x 50mm DEEP SUMP	
AREA = 42.4m2 Q100 = 3.18L/s	300mm WIDE x 150mm DEEP BOX GUTTER	
= 23.6m2 = 1.77L/s		

300SQ x 50mm DEEP SUMP

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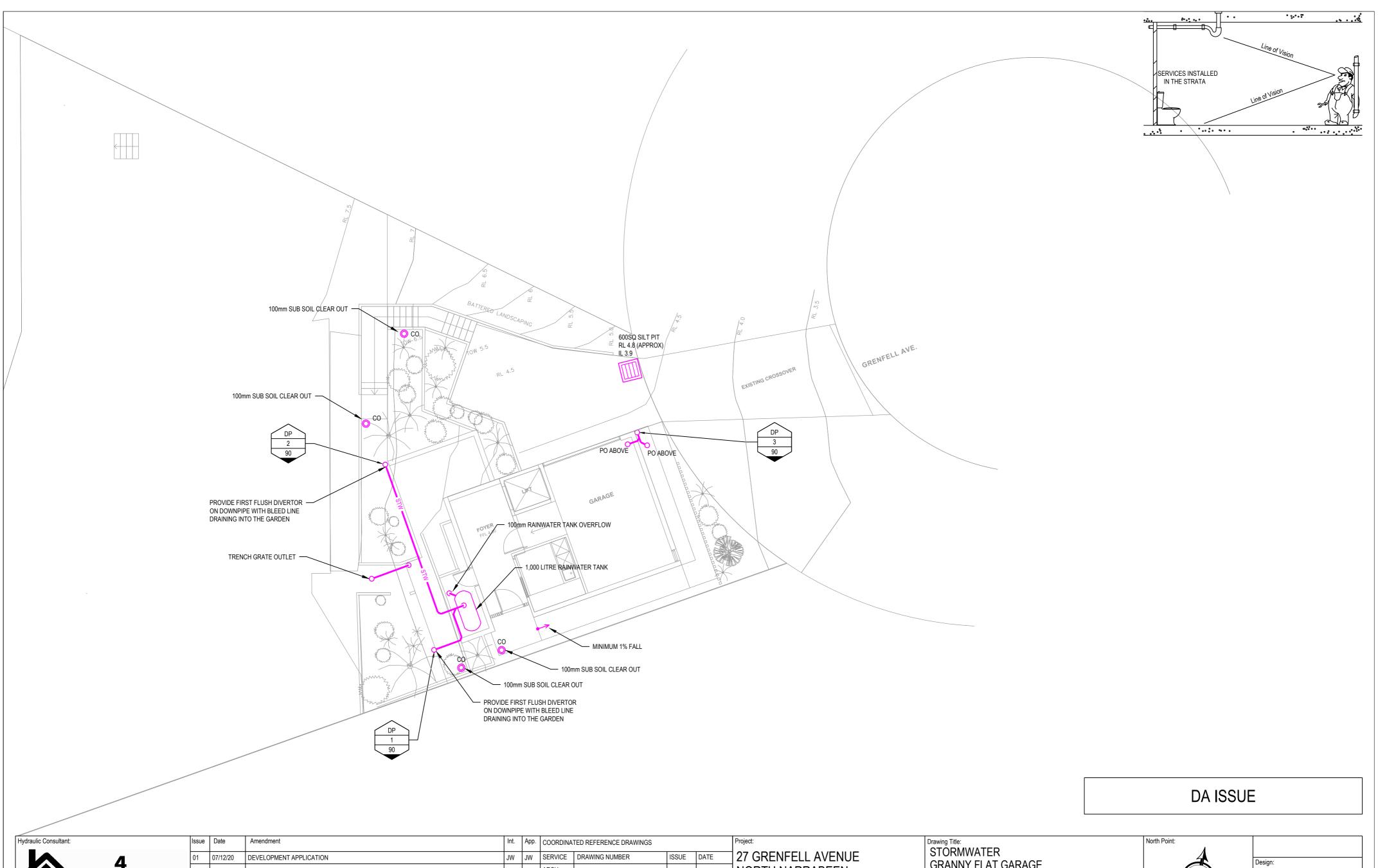
Project: 27 GRENFELL AVENUE NORTH NARRABEEN	Drawing Title: STORMWATER SITE AND ROOF PLAN	North Point:	Design: Drawn:	JASON WHITFORD JASON WHITFORD
		<sup>Job No:</sup> H420044	Scale: (A2) 1:100	
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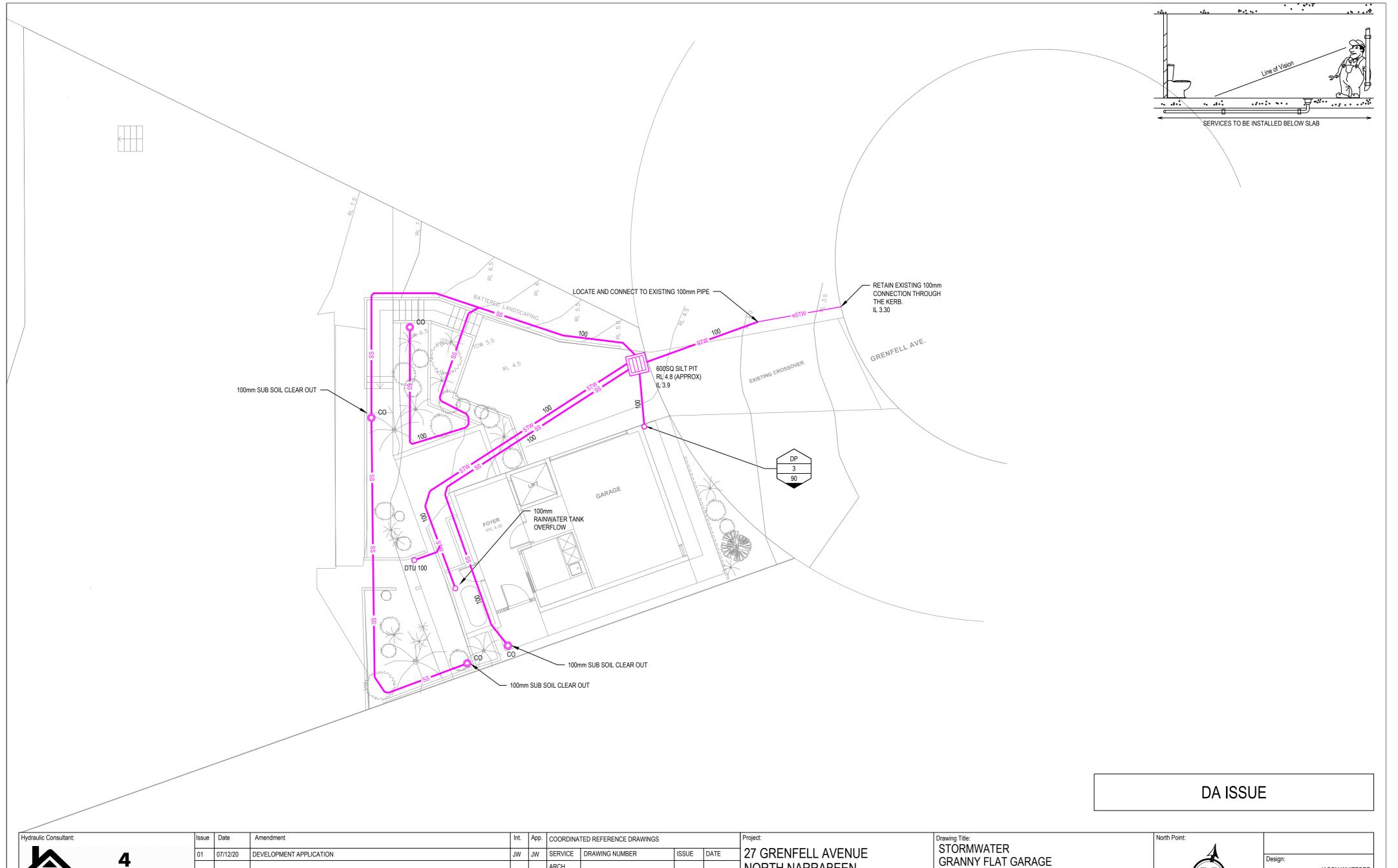


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Project: 27 GRENFELL AVENUE NORTH NARRABEEN	Drawing Title: STORMWATER GRANNY FLAT FLOOR PLAN	North Point:	Design: Drawn:	JASON WHITFORD JASON WHITFORD
		Job No: H420044	Scale: (A2) 1:100	
	NOTE: SYMBOLS ARE DRAWN IN THE CORRECT POSITION BUT ARE NOT SHOWN TO SCALE.	Dwg No: SW-02		Issue: 01



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