

# AXIS DEVELOPMENT - STAGE 1A

## 6 AUSTRALIA AVE, SYDNEY OLYMPIC PARK NSW 2140

### STATE SIGNIFICANT DEVELOPMENT - STAGE 1A BUILDING

#### HYDRAULIC SERVICES LEGEND

#### PIPEWORK SYMBOLOLOGY & ABBREVIATIONS

	CHVP	CHVP	CHAMBER VENT PIPE - EXISTING
	CW	CW	COLD WATER
	CW	CW	COLD WATER - EXISTING
	CD	CD	CONDENSATE DRAIN - EXISTING
	DC	DC	CONDUIT
	DX	DX	DRESS EXHAUST
	DISC	DISC	DISCONNECTED SERVICE
	ELEC	ELEC	ELECTRICAL SERVICE
	FHR	FHR	FIRE HOSE REEL
	FHR	FHR	FIRE HOSE REEL - EXISTING
	FH	FH	FIRE HYDRANT
	FH	FH	FIRE HYDRANT - EXISTING
	FS	FS	FIRE SERVICE
	FS	FS	FIRE SERVICE - EXISTING
	FSM	FSM	FIRE SPRINKLER MAIN
	FSM	FSM	FIRE SPRINKLER MAIN - EXISTING
	FSR	FSR	FIRE SPRINKLER RANGE PIPE
	FSR	FSR	FIRE SPRINKLER RANGE PIPE - EXISTING
	GF	GF	GAS FLUE
	GAS	GAS	GAS SERVICE
	GAS	GAS	GAS SERVICE - EXISTING
	GSP	GSP	GAS SUPPRESSION PIPE
	GW	GW	GREASE WASTE
	GW	GW	GREASE WASTE - EXISTING
	GWV	GWV	GREASE WASTE VENT PIPE - EXISTING
	HW	HW	HOT WATER
	HW	HW	HOT WATER - EXISTING
	HW	HW	HOT WATER - HEAT TRACED
	HW	HW	HOT WATER - HEAT TRACED - EXISTING
	IR	IR	IRRIGATION LINE
	IR	IR	IRRIGATION LINE - EXISTING
	NPCW	NPCW	NON-POTABLE COLD WATER
	NPCW	NPCW	NON-POTABLE COLD WATER - EXISTING
	NPHW	NPHW	NON-POTABLE HOT WATER
	NPHW	NPHW	NON-POTABLE HOT WATER - EXISTING
	PL	PL	PLANT LINE
	PD	PD	POOL DRAIN
	PHW	PHW	POOL HEATING WATER
	PW	PW	POOL WATER
	RR	RR	RAINWATER RE-USE
	RR	RR	RAINWATER RE-USE - EXISTING
	UPW	UPW	ULTRA PURE WATER
	UPW	UPW	ULTRA PURE WATER - EXISTING
	SD	SD	SANITARY DRAINAGE - EXISTING
	SP	SP	SANITARY PLUMBING
	SP	SP	SANITARY PLUMBING - EXISTING
	SRM	SRM	SANITARY RISING MAIN
	SRM	SRM	SANITARY RISING MAIN - EXISTING
	SW	SW	SANITARY WASTE
	SW	SW	SANITARY WASTE - EXISTING
	STC	STC	STORMWATER CATCHMENT
	STD	STD	STORMWATER DRAINAGE
	STD	STD	STORMWATER DRAINAGE - EXISTING
	SRM	SRM	STORMWATER RISING MAIN
	SRM	SRM	STORMWATER RISING MAIN - EXISTING
	SS	SS	SUBSOIL
	SS	SS	SUBSOIL - EXISTING
	SOF	SOF	SYPHONIC OVERFLOW
	SOF	SOF	SYPHONIC OVERFLOW - EXISTING
	SSW	SSW	SYPHONIC STORMWATER
	SSW	SSW	SYPHONIC STORMWATER - EXISTING
	TW	TW	TRADE WASTE
	TW	TW	TRADE WASTE - EXISTING
	TWRM	TWRM	TRADE WASTE RISING MAIN
	TWRM	TWRM	TRADE WASTE RISING MAIN - EXISTING
	TWV	TWV	TRADE WASTE VENT PIPE
	TWV	TWV	TRADE WASTE VENT PIPE - EXISTING
	VP	VP	VENT PIPE
	VP	VP	VENT PIPE - EXISTING
	WW	WW	WARM WATER
	WW	WW	WARM WATER - EXISTING

#### SYMBOLS

	RISER
	DROP / RISE
	TEE DROPPER
	PIPEWORK CAP
	PIPEWORK CONTINUATION
	UNDOCUMENTED CONTINUED LINE
	PIPEWORK SECTION
	DIRECTION ARROW
	NEW CONNECTION
	NEXT DRAWING
	SERVICE SIZE
	DIRECTION OF FLOW
	STOP VALVE
	CHECK VALVE
	BALANCING VALVE
	3-WAY VALVE
	BALL VALVE
	REDUCED PRESSURE ZONE DEVICE
	PRESSURE RELIEF VALVE
	PRESSURE LIMITING VALVE
	SOLENOID VALVE
	DOUBLE CHECK VALVE
	INFRA RED SENSOR
	MONITORED VALVE
	THERMOSTATIC MIXING VALVE
	WATER FILTER
	REFLUX VALVE
	INSET BORDER
	REFLUX VALVE IN PIT
	PATHBOX
	WATER METER
	EXPANSION JOINT
	STRAINER
	PRESSURE GAUGE
	FLOW SWITCH
	PRESSURE SWITCH
	WATER POINT
	TAP SET
	HOSE TAP
	BAYONET POINT
	REGULATOR
	CONTROL PANEL
	FIRE HOSE REEL
	HOT WATER UNIT
	FIRE HYDRANT
	STREET HYDRANT
	DUAL SUCTION POINT
	QUAD SUCTION POINT
	DUAL BOOSTER POINT
	QUAD BOOSTER POINT
	FLOOR WASTE
	TRENCH
	BUCKET TRAP FLOOR WASTE
	CLEAROUT TO SURFACE
	SEWER MANHOLE
	BOUNDARY TRAP
	SURCHARGE GULLY
	INSPECTION SHAFT
	INDUCT PIPE MCA FLAP
	KAMLOCK CONNECTION
	AIR ADMITTANCE VALVE
	SYPHONIC OUTLET
	RAINWATER OUTLET
	SPREADER
	OVERLAND FLOW ARROW
	STORMWATER FLOW ARROW
	PENETRATION / CORE HOLE IN SLAB
	BEAM PENETRATION
	REDUCER
	GREASE ARRESTOR
	STORMWATER GRATE
	STORMWATER COVER
	TRENCH GRATE
	REVISION
	KERB ENTRY PIT
	THRUST BLOCK
	P.A.P.A VALVE
	RAINWATER HEAD

#### ABBREVIATIONS

A/C	Air Conditioning
AVV	Air Admittance Valve
AHD	Australian Height Datum
AS	Australian Standards
B	Basin
BBQ	Barbecue
BBV	Brigade Booster Valve
BCC	Building Code of Australia
BDD	Balcony Drain Outlet
BID	Bidet
BM	Bain Marie
BP	Bayonet Point
BR	Brass
BSK	Bar Sink
BT	Boundary Trap
BTWFG	Bucket Trap Floor Waste Gully
BTH	Bath
BV	Ball Valve
BWL	Bottom Water Level
BWU	Boiling Water Unit
CHV	Check Valve
CHWU	Chilled Water Unit
CI	Cast Iron
CIC	Cast In Column
CICL	Cast Iron Cement Lined
CIS	Cast in Slab
CL	Ceiling Level
COS	Clear Out To Surface
CP	Chrome Plated
CSK	Cleaners Sink
CST	Condensate Stack
CT	Coak Top
CU	Copper
CV	Control Valve
CWM	Cold Water Meter
D	Disabled
DB	Disabled Basin
DCV	Double Check Valve
DCVA	Double Check Valve Assembly
DF	Drinking Fountain
DG	Disconnector Gully
DIA	Diameter
DICL	Ductile Iron Cement Lined
DP	Downpipe
DR	Drainage Riser
DTU	Drainage Turn Up
DU	Dental Unit
DWC	Disabled Water Closet
DWG	Drawing
DWM	Dish Washing Machine
ECV	Expansion Control Valve
EJ	Expansion Joint
ELEC	Electrical Service
EW	Eye Wash
EXT	Extinguisher
FC	Fume Cupboard
FCR	For Continuation Refer
FD	Floor Drain
FEL	Finished Floor Level
FH	Fire Hydrant
FHBV	Fire Hydrant Booster Valve
FHR	Fire Hose Reel
FHV	Fire Hydrant Valve
FP	Fire Indicator Panel
FR	Fridge
FRC	Fibre Reinforced Concrete
FBS	Flushing Rim Sink
FSL	Finished Surface Level
FSR	Fire Sprinkler Range
FU	Fixture Units
FV	Flush Valve

#### ABBREVIATIONS cont.

FW	Floor Waste (Untrapped)
FWS	Floor Waste Gully (Trapped)
GA	Grease Arrestor
GAL	Galvanised
GD	Grated Drain
GDG	Grated Drain Outlet
GGU	Grease Drainage Turn Up
GFP	Gas Free Place
GT	Grease Interceptor Trap
GL	Ground Level
GM	Gas Meter
GMS	Galvanised Mild Steel
GO	Gutter Outlet
GR	Gas Regulator
GS	Grease Stack
GT	Grease Trap
GTU	Grease Turn Up
GV	Gate Valve
GMW	Glass Washing Machine
GWS	Grease Waste Stack
H/L	High Level
HD	Heavy Duty
HDP	High Density Polyethylene
HP	High Point
HT	Hose Tap
HV	High Voltage
HWM	Hot Water Meter
HWU	Hot Water Unit
ID	Inside Diameter
IL	Invert Level
IM	Ice Machine
IO	Inspection Opening
IPMF	Induct Pipe MCA Flap
IS	Inspection Shaft
IV	Isolation Valve
JU	Jump Up
KP	Kerb Inlet Pit
KWA	Kilowatt
KW	Kilowatt
L	Litres
LA	Low Level
L/S	Litres Per Second
LD	Light Duty
LPG	Liquid Petroleum Gas
LT	Laundry Tub
LU	Loading Units
LV	Low Voltage
M	Metre
M HEAD	Metres Head
M/S	Metres per Second
M3HR	Cubic Metres per Hour
MDPE	Medium Density Polyethylene
MN	Manhole
MU	Megajoules
MSD	Movement Joint Drain
MM	Millimetres
MS	Mild Steel
NRV	Non-Return Valve
NTS	Not To Scale
NV	Nylon
O/T	Overflow
OD	Outside Diameter
OJ	Oblique Junction
ORG	Overflow Relief Gully
PAPA	Positive Air Pressure Attenuator
PDD	Plaster Drain Outlet
PEX	Cross Linked Polyethylene
PFWG	Platroom Floor Waste Gully
PG	Pressure Gauge
PLV	Pressure Limiting Valve
PM	Post Mix

#### ABBREVIATIONS cont.

PRV	Pressure Relief Valve
PS	Pat Sink
PSK	Pat Sink
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe
REF	Refrigerated Drinking Fountain
RF	Refrigerator
RHS	Rectangular Hollow Section
RZ	Reduced Level
RZD	Reduced Pressure Zone Device
RL	Rain Water Head
RVD	Rainwater Outlet
RVP	Relief Vent Pipe
RWH	Rain Water Head
RWD	Rainwater Outlet
S/S	Stainless Steel
S/T	Safe Tray
S/TB	Surgical Basin
SU	Spoon Drain Outlet
SH	Shop Hoop
SHR	Shower
SP	Sewer Inspection Pit
SK	Sink
SL	Surface Level
SMH	Sewer Manhole
S/O	Syphonic Outlet
SPF	Syphonic Overflow
SPD	Spreader
SPR	Sprinkler
SQL	Square
SSH	Safety Shower
SSL	Structural Slab Level
SS	Soil Stack
ST	Stack
STD	Sprinkler Test Drain
STER	Steriliser
SV	Stop Valve
SWMP	Stormwater Inspection Pit
SWMH	Stormwater Manhole
SWP	Stormwater Pit
SWS	Stormwater Sump
SYP	Syphonic
TB	Thrust Block
TR	To Be Removed
TG	Trench
TEL	Telecommunication Service
TD	Trench Grate
TLV	Temperature Limiting Valve
TBM	Thermobaric Mixing Valve
TRVR	Temperature & Pressure Relief Valve
TTD	Trapped Turndown
TWP	Trade Waste Inspection Pit
TWL	Top Water Level
TWST	Trade Waste Stack
TWTU	Trade Waste Turn Up
TYP	Typical
U/S	Underside
UNO	Unless Noted Otherwise
UPVC	Unplasticised Polyvinyl Chloride
UR	Urinal
UV	Ultra Violet
UW	Utensil Washer
VB	Vacuum Breaker
VCP	Ventilated Clo Pipe
WC	Water Closet
WL	Water Level
WM	Washing Machine (Clothes)
WT	Waste Stack
WT	Wash Trough

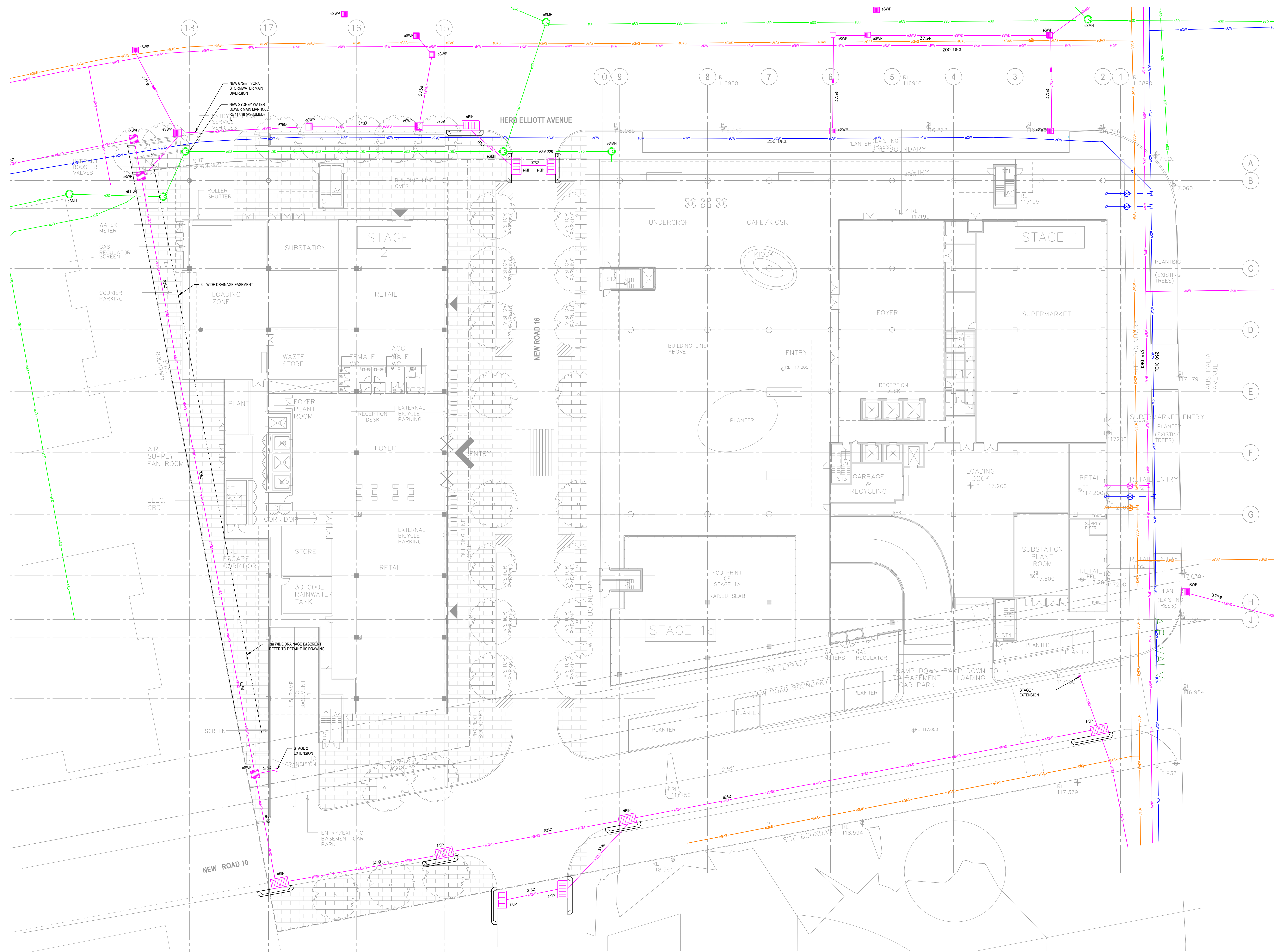
#### DRAWING SCHEDULE

DRAWING NUMBER	DRAWING SCALE	DRAWING TITLE
SW-000	NTS	HYDRAULIC SERVICES COVER SHEET AND LEGEND
SW-001	1:200	HYDRAULIC SERVICES SITE PLAN STAGE 1a
SW-100	1:100	HYDRAULIC SERVICES GROUND LEVEL PLAN STAGE 1a
SW-101	1:100	HYDRAULIC SERVICES LEVEL 01 PLAN STAGE 1a
SW-102	1:100	HYDRAULIC SERVICES LEVEL PLAN 02 STAGE 1a
SW-103	1:100	HYDRAULIC SERVICES LEVEL PLAN 03-06 STAGE 1a
SW-104	1:100	HYDRAULIC SERVICES LEVEL PLAN 07 STAGE 1a
SW-105	1:100	HYDRAULIC SERVICES ROOF PLAN STAGE 1a



INSYNC SERVICES  
Suite 8, Level 2  
56 Church Avenue  
MASCOOT NSW 2020  
Ph (02) 9669 4311  
Fax (02) 9669 4322  
A.C.N. 150 234 870  
A.B.N. 24 917 388 129

THIS DRAWING IS CONFIDENTIAL AND IS NOT TO BE REPRODUCED IN ANY FORM AS A WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN AUTHORITY OF INSYNC SERVICES PTY LTD. THIS DRAWING IS NOT TO BE USED PREJUDICIAL TO THE INTEREST OF INSYNC SERVICES PTY LTD. THE DRAWING CONTAINS PATENTS PENDING AND INTELLECTUAL PROPERTY OWNED BY INSYNC SERVICES PTY LTD.  
NOTE: SYMBOLS ARE DRAWN IN THE CORRECT POSITION BUT ARE NOT SHOWN TO SCALE.



**INSYNC SERVICES**  
 Suite B, Level 2  
 56 Church Avenue  
 MASCOOT NSW 2020  
 Ph (02) 9669 4311  
 Fax (02) 9669 4322  
 A.C.N. 150 234 870  
 A.B.N. 24 917 388 129

THIS DRAWING IS CONFIDENTIAL AND IS NOT TO BE REPRODUCED IN ANY FORM AS A WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN AUTHORITY OF INSYNC SERVICES PTY LTD. THIS DRAWING IS NOT TO BE USED PREJUDICIAL TO THE INTEREST OF INSYNC SERVICES PTY LTD. THE SHOWN CONTRACT PARTIES HOLDING AND INTELLECTUAL PROPERTY OWNED BY INSYNC SERVICES PTY LTD.

NOTE: SYMBOLS ARE DRAWN IN THE CORRECT POSITION BUT ARE NOT SHOWN TO SCALE.

Client:  
**Capital Corporation Pty Ltd**  
 Suite 705 12 Century Circuit  
 Baulkham Hills NSW 2153  
 Ph (02) 8683 5000  
 Fax (02) 8683 5099

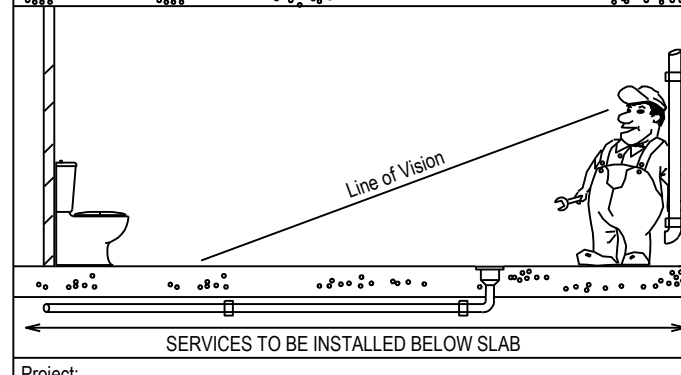
Project Manager:  
**Capital Corporation Pty Ltd**  
 Suite 705 12 Century Circuit  
 Baulkham Hills NSW 2153  
 Ph (02) 8683 5000  
 Fax (02) 8683 5099

Architect:  
**Architectus**  
 Level 3 341 George Street  
 Sydney NSW 2000  
 T (02) 8252 8400  
 Fax (02) 8252 8600



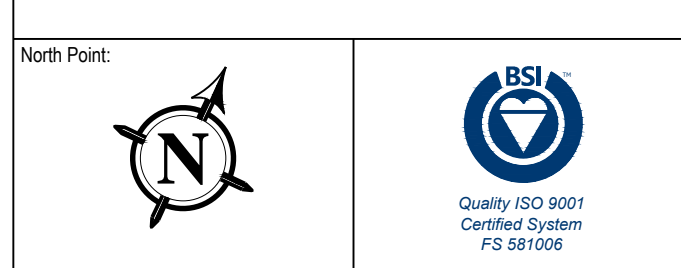
Issue	Date	Amendment	Int.	App.
A	14-05-13	STATE SIGNIFICANT DEVELOPMENT - STAGE 1A BUILDING	BL	BL

COORDINATED REFERENCE DRAWINGS			
SERVICE	DRAWING NUMBER	ISSUE	DATE
ARCH	DA-2-1002	A	02 04 2013
MECH			
STRUCT			
ELEC			
CIVIL			



Project:  
**AXIS DEVELOPMENT  
 STAGE 1A  
 6 Australia Avenue  
 Sydney Olympic Park NSW 2140**

Drawing Title:  
**HYDRAULIC SERVICES  
 SITE PLAN  
 STAGE 1a**



Job No: **20120081** Scale: (B1) 1:200  
 Draw No: **SW-001** Issue: **A**

**FOR APPROVAL**

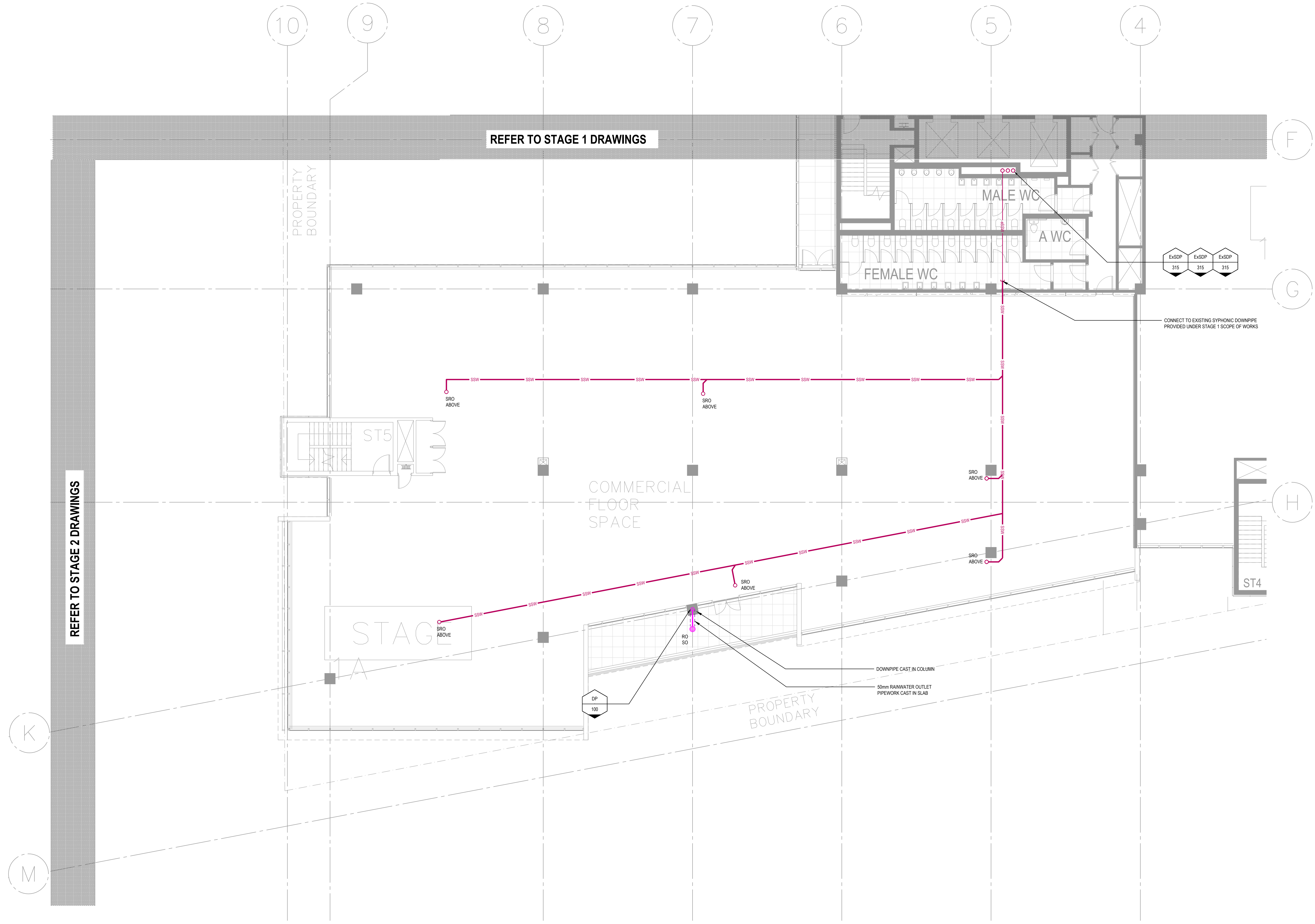
IFC: NAME, R. ARCH: 21 Sydney Olympic Park NSW 2140, 20120081 Axis Development - Sydney Olympic Park - Stage 1a (Drawing: Current Drawing) SW-001 SITE PLAN - 2013-12-20  
 RECD DATE: R. DATE: 14 May 2013 12:25pm  
 CREDITED BY: Tommaso Giannini





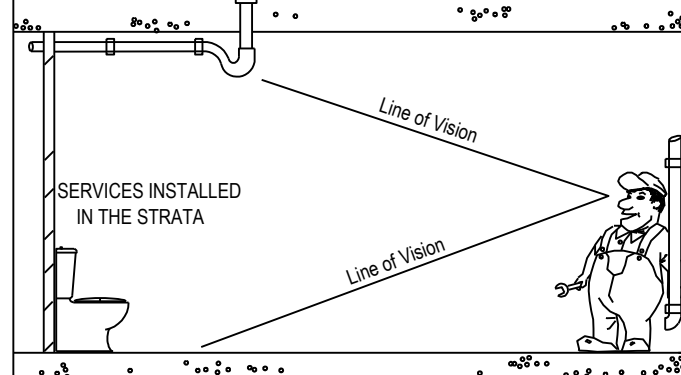






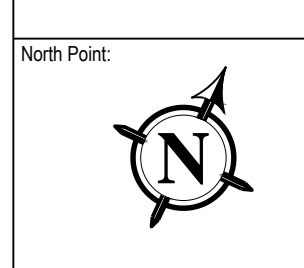
Issue	Date	Amendment	Int.	App.
A	14-05-13	STATE SIGNIFICANT DEVELOPMENT - STAGE 1A BUILDING	BL	BL

COORDINATED REFERENCE DRAWINGS			
SERVICE	DRAWING NUMBER	ISSUE	DATE
ARCH	DA-1A-1005	A	09/05/2013
MECH			
STRUCT			
ELEC			
CIVIL			



Project:  
**AXIS DEVELOPMENT**  
**STAGE 1A**  
**6 Australia Avenue**  
**Sydney Olympic Park NSW 2140**

Drawing Title:  
**HYDRAULIC SERVICES**  
**LEVEL 07 PLAN**  
**STAGE 1A**



Job No: **20120081** Scale: (B1) 1:100  
 Draw No: **SW-104** Issue: **A**

FOR APPROVAL

