

NSW HEALTH INFRASTRUCTURE

GOULBURN HOSPITAL & HOSPITAL SERVICES

REDEVELOPMENT



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HYDRAULIC & FIRE SERVICES	
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No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
A		SCHEMATIC DESIGN ISSUE	MOS	B.P*	J.McP*	27.07.17



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Client	NSW HEALTH INFRASTRUCTURE
Project	GOULBURN HOSPITAL & HOSPITAL SERVICES REDEVELOPMENT
Title	HYDRAULIC DRAWING INDEX
Original Size	A1
Drawing No:	22-18102-H001
Rev:	A

DRAINAGE SERVICES

LINE STYLE	DESCRIPTION
	NEW SANITARY DRAIN
	NEW VENT PIPE
	NEW STORMWATER PIPE
	EXISTING SANITARY DRAIN
	EXISTING STORMWATER PIPE

WATER SERVICES

LINE STYLE	DESCRIPTION
	NEW COLD WATER PLUMBING
	NEW COLD NON-POTABLE WATER PLUMBING
	NEW HOT WATER PLUMBING
	NEW HOT WATER RETURN PLUMBING
	NEW HOT NON-POTABLE WATER PLUMBING
	NEW HOT TEMPERED WATER PLUMBING
	NEW GAS MAIN

FIRE SERVICES

LINE STYLE	DESCRIPTION
	NEW FIRE (WATER MAIN)
	NEW FIRE HOSE REEL PIPE
	NEW HYDRANT PIPE
	NEW SPRINKLER PIPE
	NEW PRE ACTION SPRINKLER PIPE
	NEW WINDOW DRENCHER PIPE

ABBREVIATIONS

AC	AIR CONDITIONING	ORG	OVERFLOW RELIEF GULLY
AAV	AIR ADMITTANCE VALVE	PC	PROPERTY CONNECTION
AC	ASBESTOS CEMENT	PE	POLYETHYLENE
AFFL	ABOVE FFL	PEX	CROSS-LINKED POLYETHYLENE
AHD	AUSTRALIAN HEIGHT DATUM	PN	PRESSURE NOMINAL
AP	ACCESS PANEL	PP	POLYPROPYLENE
ATR	ABLUTIONS TROUGH	PRV	PRESSURE REDUCING VALVE
AS	AUSTRALIAN STANDARD	PS	PAN & UTENSIL SANITISER
B	BASIN	PVC-O	BI-AXIALLY ORIENTED POLYVINYL CHLORIDE
BG	BOX GUTTER	PVC-M	MODIFIED POLYVINYL CHLORIDE
BP	BEAM PENETRATION	PVC-U	UNPLASTICISED POLYVINYL CHLORIDE
BTH	BATH	PW	POTABLE WATER
CHV	CHECK VALVE	PWD	PERSONS WITH DISABILITIES
CI	CAST IRON	O	FLOW
COS	CLEAN OUT TO SURFACE	RCP	REINFORCED CONCRETE PIPE
CP	CHROME PLATED	RL	RELATIVE LEVEL
CU	COPPER	RPZD	REDUCED PRESSURE ZONE DEVICE
CW	COLD WATER	RV	RELIEF VENT
CWM	CLOTHES WASH MACHINE	RW	RAINWATER
DCV	DOUBLE CHECK VALVE	RWH	RAINWATER HEAD
DD	DRAINAGE DROPPER	SDP	SIPHONIC DOWN PIPE
DFW	DRY FLOOR WASTE	SDO	SPOON DRAIN OUTLET
DG	DISCONNECTOR GULLY	SFW	SEALED FLOOR WASTE
DIA	DIAMETER	SHR	SHOWER
DN	NOMINAL DIAMETER	SIC	SEWER IC
DP	DOWNPIPE	SIT	SILT INTERCEPTOR TRAP
DRE	DRENCHER	SK	SINK
DT	DISCONNECTOR TRAP	SK-B	BAR SINK
DUALCV	DUAL CHV	SK-B(D)	BAR SINK DOMESTIC
DW	DISHWASHER	SK-B(C)	BAR SINK COMMERCIAL
DWV	DRAINAGE WASTE VENT	SK-C	CLEANERS SINK
e	EXISTING	SK-F	FLUSHING RIM SINK
EG	EAVES GUTTER	SK-L	LABORATORY SINK
EJ	EXPANSION JOINT	SK-P	POT SINK
EX	EXISTING	SK-PR	PREP SINK
F/A	FROM ABOVE	SK-T	TEA SINK
F/B	FROM BELOW	SL	SURFACE LEVEL
F/C	FIRE COLLAR	SMH	SEWER MANHOLE
FE	FIRE EXTINGUISHER	SND	SANITARY NAPKIN DISPOSAL
FF	FROG FLAP	SPR	SPRINKLER MAIN
FFL	FINISHED FLOOR LEVEL	SS	STAINLESS STEEL
FH	FIRE HYDRANT	SSD	SUB-SOIL DRAIN
FHR	FIRE HOSE REEL	ST	STACK
FWM	FIRE WATER METER	STV	STACK VENT
FRC	FIBRE REINFORCED CONCRETE	SW	STORMWATER
FSL	FINISHED SURFACE LEVEL	SWIC	STORMWATER INSPECTION CHAMBER
FTD	FIRE TEST DRAIN	SWP	STORMWATER PIT
FU	FIXTURE UNIT	T/A	TO ABOVE
FW	FLOOR WASTE	T/B	TO BELOW
FWG	FLOOR WASTE GULLY	TAP-H	HOSE TAP
GP	GULLY PIT	TAP-S	STOP TAP
H&CW	HOT & COLD WATER	TBM	TEMPORARY BENCH MARK
HTVB	HOSE TAP VACUUM BREAKER	TD	TUNDISH
HW	HOT WATER	TMV	THERMOSTATIC MIXING VALVE
HW-R	HOT WATER RETURN	TPR	TEMPERATURE PRESSURE RELIEF
HWU	HOT WATER UNIT	TSC	TESTABLE SINGLE CHECK
HYD	HYDRANT MAIN	TTD	TRAPPED TUNDISH
IC	INSPECTION CHAMBER	TV	TEMPERING VALVE
ID	INSIDE DIAMETER	TW	TRADE WASTE
IJ	INSPECTION JUNCTION	TYP	TYPICAL
IL	INVERT LEVEL	US	UNDERSIDE
IM	ICE MACHINE	UNO	UNLESS NOTED OTHERWISE
IO	INSPECTION OPENING	UR	URINAL
IOS	INSPECTION OPENING TO SURFACE	VC	VENT COWL
IS	INSPECTION SHAFT	VG	VALLEY GUTTER
JU	JUMP-UP	VP	VENT PIPE
kPa	KILOPASCAL	WC	WATER CLOSET
LH	LAMP HOLE	WKS	WORKSTATION
LT	LAUNDRY TROUGH	WM	WASH MACHINE
MH	MAINTENANCE HOLE	WM	WATER METER
NOM	NOMINAL	WP	WASTE PIPE
NP	NON-POTABLE		
NRV	NON-RETURN VALVE		
NTS	NOT TO SCALE		
OB	OBLIQUE BRANCH		
OD	OUTSIDE DIAMETER		
OF	OVERFLOW		

GENERAL SYMBOLS

	CAPPED PIPE END OR CONNECTION
	ELBOW (PLAN)
	FLOW DIRECTION
	PIPE CONTINUATION
	VERTICAL PIPE
	TEE (PLAN)

FIRE SYMBOLS

	BRIGADE BOOSTER
	BRIGADE SUCTION
	DRY CHEMICAL POWDER EXTINGUISHER
	WATER EXTINGUISHER
	CARBON DIOXIDE (CO ₂) EXTINGUISHER
	FOAM EXTINGUISHER
	FIRE BLANKET
	FHR (PLAN)
	HYDRANT MILL COCK
	TWIN PILLAR HYDRANT
	IN-GROUND SPRING HYDRANT

SPRINKLER SYMBOLS

	PENDANT SPRINKLER
	FLUSH MOUNTED PENDANT SPRINKLER
	UPRIGHT SPRINKLER
	DRY SIDE WALL SPRINKLER
	DRENCHER, PENDENT SIDE WALL

DRAINAGE SYMBOLS

	AAV (ELEVATION)
	AAV (PLAN)
	BEAM PENETRATION
	FIXTURE UNIT LOADING
	INSPECTION CHAMBER
	ORG
	P TRAP
	S TRAP
	TUNDISH

STORMWATER SYMBOLS

	300 X 300 SWGP
	450 X 450 SWGP
	600 X 600 SWGP
	SWIC

VALVE SYMBOLS

	AIR RELEASE VALVE
	BALANCING VALVE
	BALL VALVE (NORMALLY CLOSED)
	BALL VALVE (NORMALLY OPEN)
	BARREL UNION
	BINDER TEST POINT
	CONTROL VALVE
	EXPANSION VALVE
	DOUBLE CHECK VALVE
	DOUBLE CHECK VALVE 20mm TO 65mm
	DOUBLE CHECK VALVE 80mm +
	DUAL CHECK VALVE
	FLOAT VALVE
	FLOW SWITCH
	GATE VALVE IN BOX
	GATE VALVE (NORMALLY CLOSED)
	GATE VALVE
	HOSE TAP
	HWU (PLAN)
	MONITORED VALVE
	TEE (NODE)
	NON-RETURN VALVE
	PRESSURE GAUGE
	PRESSURE REDUCING VALVE
	PRESSURE SWITCH
	DIESEL PUMP
	ELECTRIC PUMP
	PUMP
	REDUCER
	RPZ VALVE
	RPZ VALVE 20mm TO 65mm
	RPZ VALVE 80mm +
	SOLENOID VALVE
	STRAINER
	TEMP. PRESSURE RELIEF VALVE
	TEMPERING VALVE
	TEMPERATURE GAUGE
	TEMPERATURE SENSOR
	THERMOSTATIC MIXING VALVE
	THRUST BLOCK
	URINAL SENSOR
	VIBRATION ISOLATOR
	WATER METER IN BOX
	WATER METER
	COLD WATER FIXTURE CONNECTION
	HOT & COLD WATER FIXTURE CONNECTION
	PIPE CROSSOVER & TEE

	SERVICE FLOW INDICATOR
	SERVICE ABBREVIATION
	IDENTIFICATION NUMBER/NOMINAL DIA.
	SERVICE FLOW INDICATOR

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A	SCHEMATIC DESIGN ISSUE	MOS	B.P*	J.McP*	27.07.17	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date

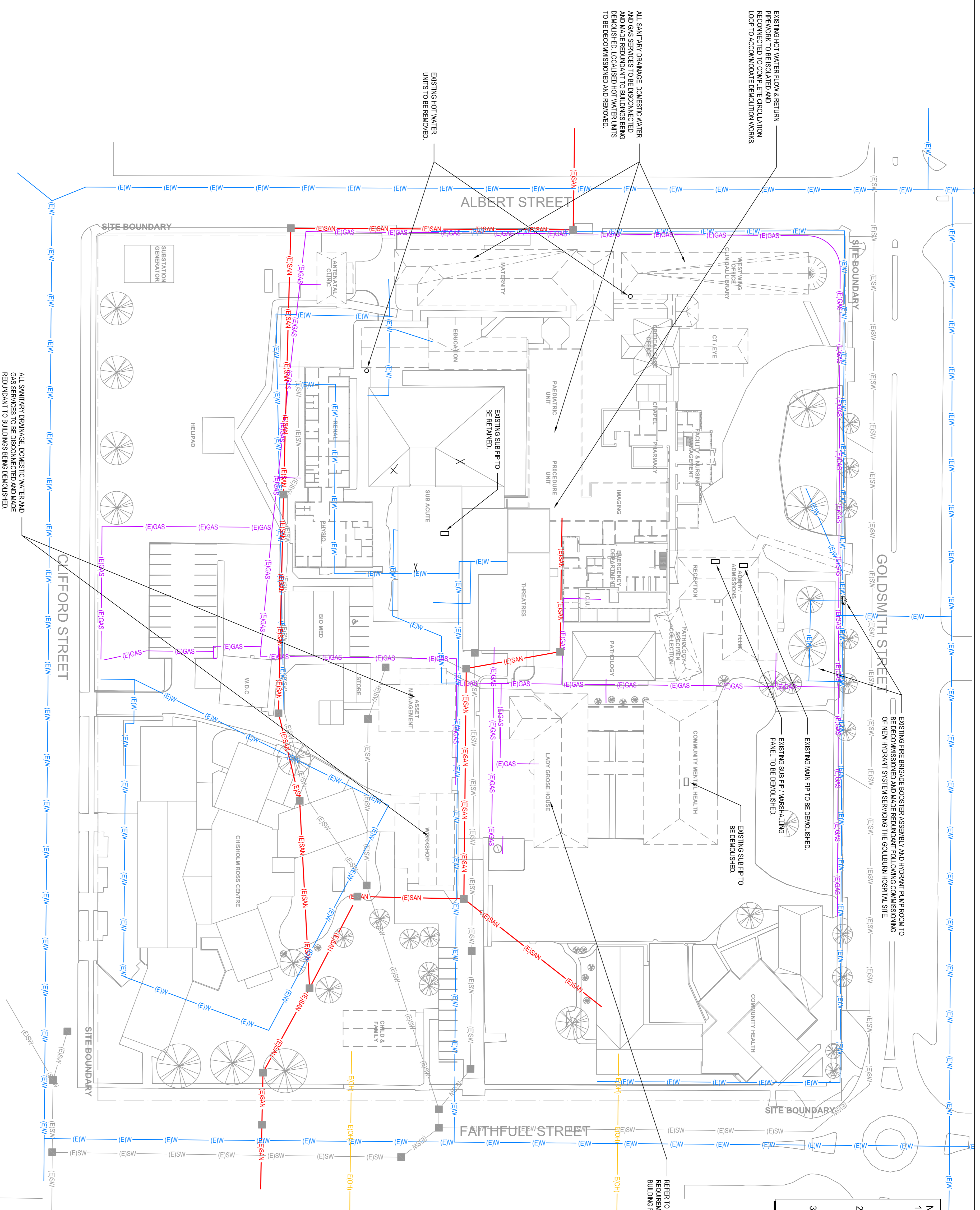
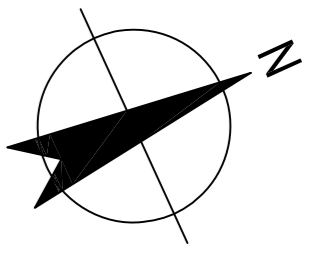


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Approved (Project Director)		Date	
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Client	NSW HEALTH INFRASTRUCTURE		
Project	GOULBURN HOSPITAL & HOSPITAL SERVICES REDEVELOPMENT		
Title	LEGEND AND SCHEDULES		
Original Size	Drawing No:	22-18102-H003	
Rev:	A		



- NOTE:**
1. EXISTING SERVICES HAVE BEEN LOCATED FROM LIMITED SITE INVESTIGATION ONLY AND HAVE NOT BEEN IDENTIFIED OR DOCUMENTED BY SURVEY. EXISTING SERVICES ARE INDICATIVE AND HAVE BEEN SHOWN FOR INFORMATION ONLY.
 2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN CURRENT INFORMATION WITH REGARD TO ALL UNDERGROUND SERVICES & TO LOCATE THEM PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 3. WHERE LOCATION IS CRITICAL TO THE DESIGN IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND LEVEL THE APPROPRIATE SERVICE PRIOR TO CONSTRUCTION.

REFER TO 22-18102-H300 FOR SITE SERVICES REQUIREMENTS WITHIN NEW ACUTE SERVICES BUILDING FOOTPRINT.

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ALL SANITARY DRAINAGE, DOMESTIC WATER AND GAS SERVICES TO BE DISCONNECTED AND MADE REDUNDANT TO BUILDINGS BEING DEMOLISHED.

ALL SANITARY DRAINAGE, DOMESTIC WATER AND GAS SERVICES TO BE DISCONNECTED AND MADE REDUNDANT TO BUILDINGS BEING DEMOLISHED LOCALISED HOT WATER UNITS TO BE DECOMMISSIONED AND REMOVED.

EXISTING HOT WATER FLOW & RETURN PIPENETWORK TO BE ISOLATED AND RECONNECTED TO COMPLETE CIRCULATION LOOP TO ACCOMMODATE DEMOLITION WORKS.

EXISTING HOT WATER UNITS TO BE REMOVED.

ALBERT STREET

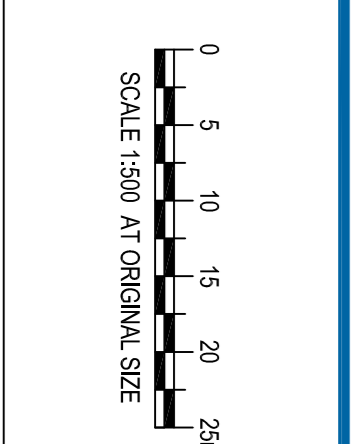
GOLDSMITH STREET

CLIFFORD STREET

FAITHFUL STREET

PRELIMINARY

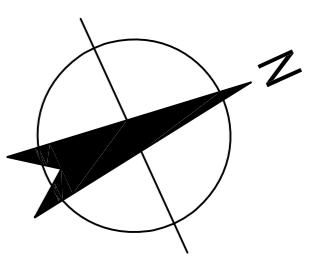
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A	SCHEMATIC DESIGN ISSUE		MOS	J.McP	24.07.17
			BP	Director	



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Client	NSW HEALTH INFRASTRUCTURE
Project	GOLDBURN HOSPITAL & HOSPITAL SERVICES REDEVELOPMENT
Title	HYDRAULIC SITE LAYOUT - DEMOLITION
Sheet No.	A1
Drawing No.	22-18102-H100
Rev.	A

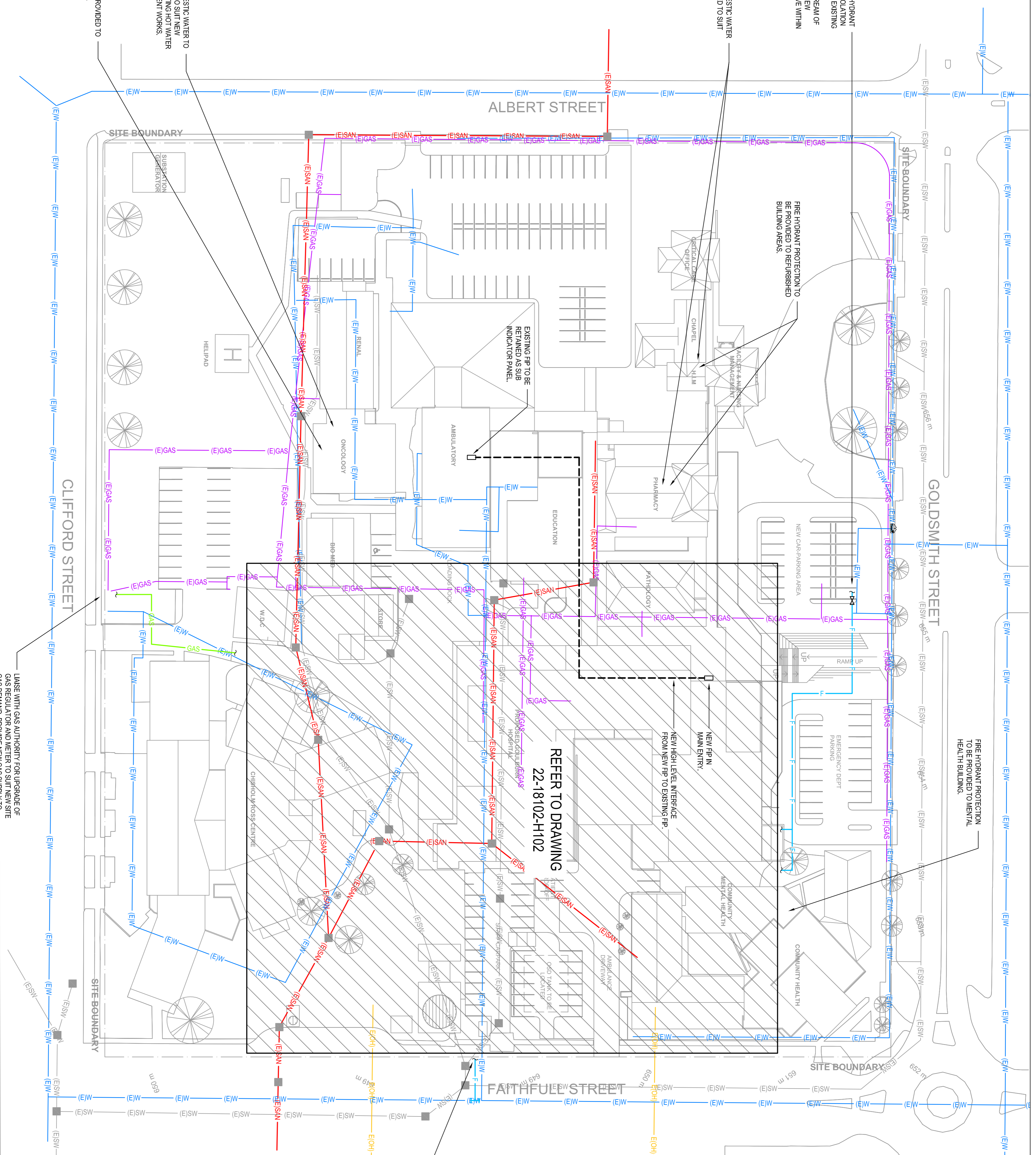


NEW FIRE HYDRANT SERVICE TO CONNECT TO EXISTING FIRE HYDRANT PIPING DOWNSTREAM OF EXISTING PUMP SET PROVIDE ISOLATION VALVE TO PROVIDE A POINT OF SEPARATION BETWEEN NEW & EXISTING SERVICES DROP DOWN TO NEW LINE WITH SPACE ALLOW TO RECONNECT EXISTING AND NEW DRENCHERS TO BE BOWNS REAM OF EXISTING PIPING FROM ABOVE GROUND LOCATED ISOLATION VALVE WITHIN LANDSCAPE AREA WITH VALVE TAGS INDICATING SERVICE.

SANITARY DRAINAGE AND DOMESTIC WATER TO BE ADJUSTED/ RATIONALISED TO SUIT NEW REFURISHMENT WORKS.

SANITARY DRAINAGE AND DOMESTIC WATER TO BE ADJUSTED/ RATIONALISED TO SUIT NEW REFURISHMENT WORKS. EXISTING HOT WATER UNIT TO SERVICE REFURISHMENT WORKS.

HYDRANT PROTECTION TO BE PROVIDED TO REFURISHED BUILDING AREAS.



FIRE HYDRANT PROTECTION TO BE PROVIDED TO MENTAL HEALTH BUILDING.

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- FIRE DETECTION NOTES**
- ALL DETECTION AND OCCUPANT WARNING IN SUB ACUITE TO BE REMAINED.
 - REMAIN DETECTION AND OCCUPANT WARNING TO BE PROVIDED TO ALL OTHER AREAS.

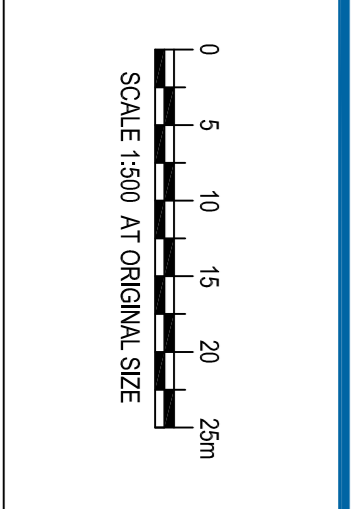
PLEASE WITH AUTHORITY FOR NEW 0.15m FIRE HYDRANT SERVICE CONNECTION.

PLEASE WITH GAS AUTHORITY FOR UPGRADE OF GAS REGULATOR AND METER TO SUIT NEW SITE AND USE FROM EXISTING HOSPITAL BUILDINGS.

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PRELIMINARY

No.	Revision	Notes	Drawn	Check	Date
A	SCHEMATIC DESIGN ISSUE	None	MOS	B.P.	J.M.C.P. 24.07.17
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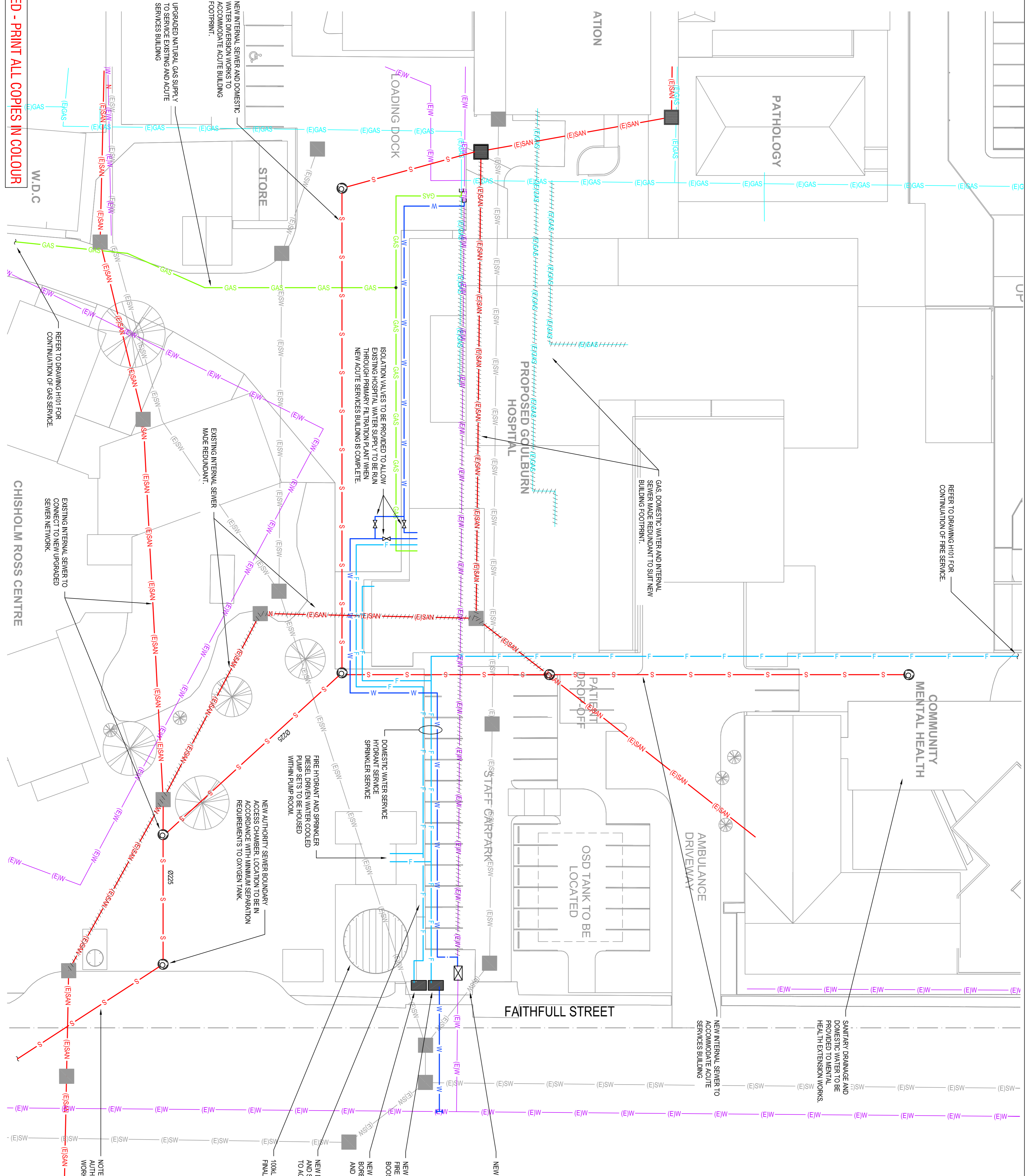
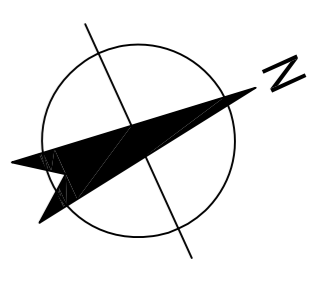


NSW Health Infrastructure

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Client	NSW HEALTH INFRASTRUCTURE
Project	GOLDBURN HOSPITAL & HOSPITAL SERVICES REDEVELOPMENT
Title	HYDRAULIC SITE LAYOUT - OVERALL
Original Size	A1
Drawing No.	22-18102-H101
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LEGEND

	NEW SEWER DRAIN
	NEW STORMWATER DRAIN
	NEW GAS SERVICE
	REDUNDANT SERVICE
	EXISTING SANITARY DRAIN
	EXISTING STORMWATER DRAIN
	EXISTING COLD WATER PLUMBING
	EXISTING GAS

NEW DUAL BP20 VALVES

NEW CHECK VALVE AND FIRE BRIGADE HYDRANT BOOSTER ASSEMBLY

NEW SPRINKLER LARGE AND SMALL BORE SUCTION OUTLET FROM TANK AND BOOSTER POINT WITH CABINET.

NEW DOMESTIC WATER FIRE HYDRANT AND SPRINKLER PREVENTION/ISOLATION TO ACUTE SERVICES BUILDING.

100L FIRE SPRINKLER STORAGE TANK FINAL SIZING TO BE CONFIRMED.

NEW AUTHORITY SERVER BOUNDARY ACCESS CHAMBER. LOCATION TO BE IN ACCORDANCE WITH MINIMUM SEPARATION REQUIREMENTS TO OXYGEN TANK.

FIRE HYDRANT AND SPRINKLER DIESEL DRIVEN WATER COOLED PUMP SETS TO BE HOUSED WITHIN PUMP ROOM.

DOMESTIC WATER SERVICE HYDRANT SERVICE SPRINKLER SERVICE

ISOLATION VALVES TO BE PROVIDED TO ALLOW EXISTING HOSPITAL WATER SUPPLY TO BE RUN THROUGH PRIMARY FILTRATION PLANT WHEN NEW ACUTE SERVICES BUILDING IS COMPLETE.

NEW INTERNAL SEWER AND DOMESTIC WATER DIVERSION WORKS TO ACCOMMODATE ACUTE BUILDING FOOTPRINT.

UPGRADED NATURAL GAS SUPPLY TO SERVICE EXISTING AND ACUTE SERVICES BUILDING

NEW INTERNAL SEWER AND DOMESTIC WATER DIVERSION WORKS TO ACCOMMODATE ACUTE BUILDING FOOTPRINT.

EXISTING INTERNAL SEWER MADE REDUNDANT.

EXISTING INTERNAL SEWER TO CONNECT TO NEW UPGRADED SEWER NETWORK

REFER TO DRAWING H101 FOR CONTINUATION OF GAS SERVICE.

REFER TO DRAWING H101 FOR CONTINUATION OF FIRE SERVICE.

GAS DOMESTIC WATER AND INTERNAL SEWER MADE REDUNDANT TO SUIT NEW BUILDING FOOTPRINT.

SANITARY DRAINAGE AND DOMESTIC WATER TO BE PROVIDED FOR INTERNAL HEALTH EXTENSION WORKS.

OSD TANK TO BE LOCATED

AMBULANCE DRIVEWAY

COMMUNITY MENTAL HEALTH

PATIENT DROP-OFF

STAFF PARK

FAITHFULL STREET

AMBULANCE DRIVEWAY

NEW INTERNAL SEWER TO ACCOMMODATE ACUTE SERVICES BUILDING

W.D.C

STORE

LOADING DOCK

PATHOLOGY

PROPOSED GOULBURN HOSPITAL

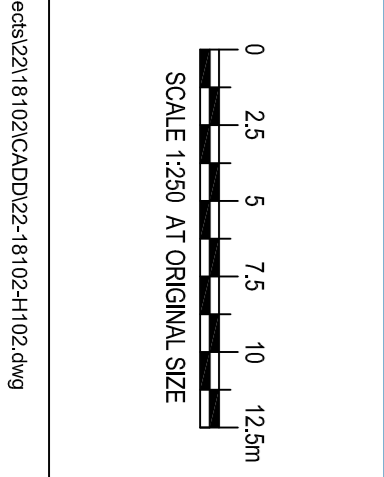
ATTON

CHISHOLM ROSS CENTRE

NOTE: REFER TO CIVIL DRAWINGS FOR AUTHORITY SERVER AUGMENTATION WORKS DOWNSREAM OF HOSPITAL SITE.

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A	SCHEMATIC DESIGN ISSUE	Note: * Indicates signatures on original issue of drawing or last revision of drawing	MOS	B.P.	J.McP
			Manager	Director	24/07/17



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Drafting		Design	
Checked		Checked	
Approved (Project Director)		Approved (Project Director)	
Date		Date	
Scale	1:250	Scale	

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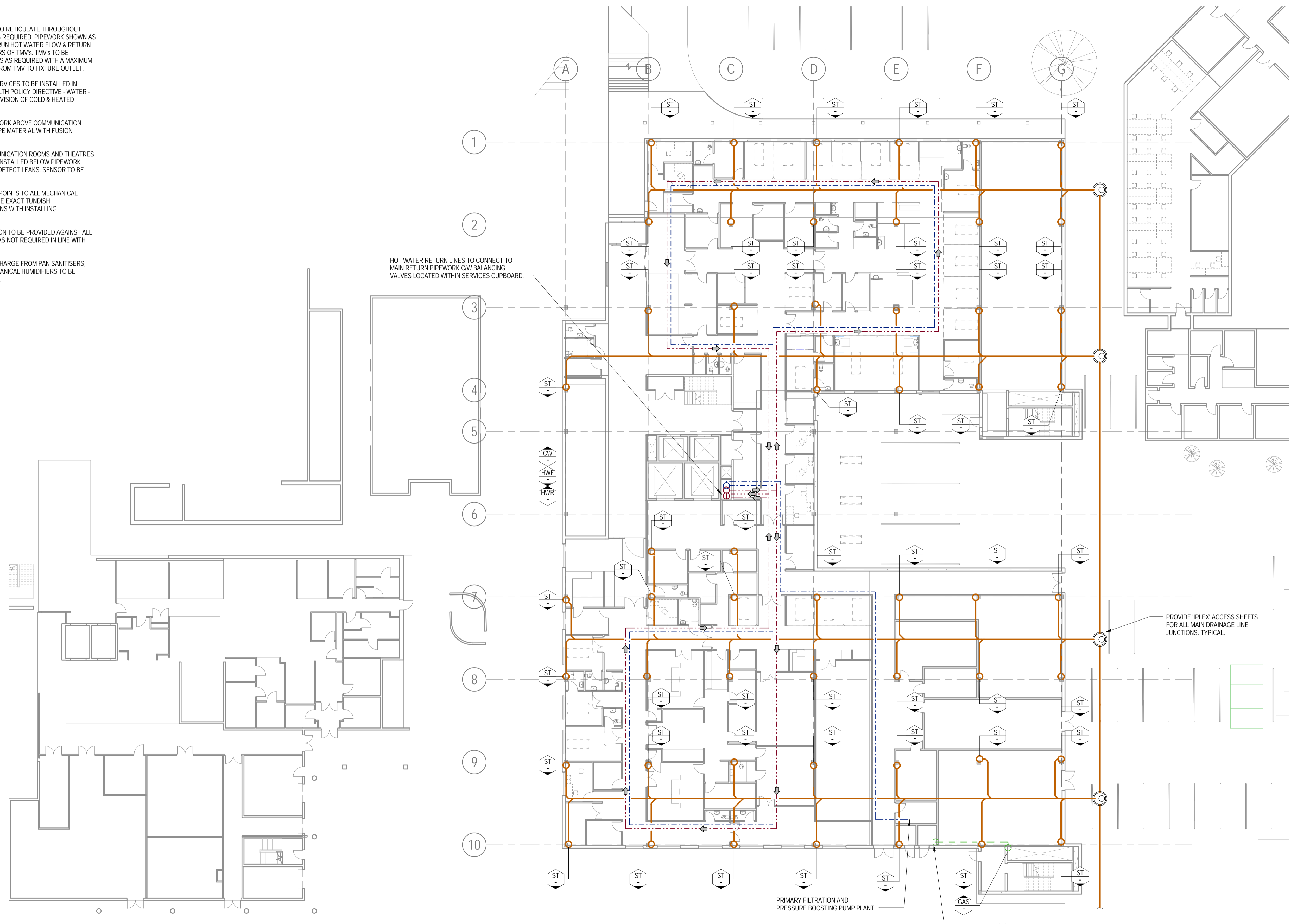
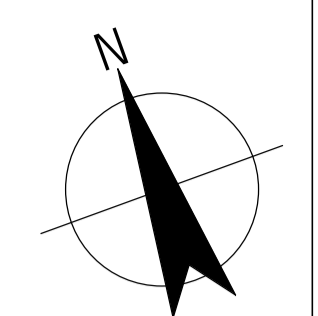
PRELIMINARY

NSW HEALTH INFRASTRUCTURE GOULBURN HOSPITAL & HOSPITAL SERVICES REDEVELOPMENT HYDRAULIC SITE LAYOUT - BUILDING

Client: NSW Health Infrastructure
 Project: GOULBURN HOSPITAL & HOSPITAL SERVICES REDEVELOPMENT
 Title: HYDRAULIC SITE LAYOUT - BUILDING
 Drawing No: 22-18102-H102
 Rev: A

NOTES

1. HOT & COLD WATER SUPPLY TO RETICULATE THROUGHOUT BUILDING TO ALL FIXTURES AS REQUIRED. PIPEWORK SHOWN AS INDICATIVE ONLY. ALLOW TO RUN HOT WATER FLOW & RETURN PIPEWORK TO WITHIN 3 METERS OF TMV'S. TMV'S TO BE PROVIDED TO SERVE FIXTURES AS REQUIRED WITH A MAXIMUM OF 7 METERS OF PIPEWORK FROM TMV TO FIXTURE OUTLET.
2. ALL HOT AND COLD WATER SERVICES TO BE INSTALLED IN ACCORDANCE WITH NSW HEALTH POLICY DIRECTIVE - WATER REQUIREMENTS FOR THE PROVISION OF COLD & HEATED WATER.
3. ALLOW TO INSTALL ALL PIPEWORK ABOVE COMMUNICATION ROOMS AND THEATRES IN HDPE MATERIAL WITH FUSION WELDED JOINTS.
4. ALL PIPEWORK ABOVE COMMUNICATION ROOMS AND THEATRES TO HAVE 300mm WIDE TRAYS INSTALLED BELOW PIPEWORK COMPLETE WITH SENSOR TO DETECT LEAKS. SENSOR TO BE CONNECTED TO BMS.
5. ALLOW TO PROVIDE TUNDISH POINTS TO ALL MECHANICAL PLANT. ALLOW TO COORDINATE EXACT TUNDISH REQUIREMENTS AND LOCATIONS WITH INSTALLING CONTRACTOR.
6. SANITARY PLUMBING PROVISION TO BE PROVIDED AGAINST ALL COLUMNS UNTIL CONFIRMED AS NOT REQUIRED IN LINE WITH FINAL CLINICAL LAYOUTS.
7. ALL HIGH TEMPERATURE DISCHARGE FROM PAN SANITISERS, UTENSIL WASHERS AND MECHANICAL HUMIDIFIERS TO BE INSTALLED IN HDPE MATERIAL.



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Client	NSW HEALTH INFRASTRUCTURE
Project	GOULBURN HOSPITAL & HOSPITAL SERVICES REDEVELOPMENT
Title	HYDRAULIC SERVICES - LOWER GROUND
Original Size	A1
Drawing No:	22-18102-H200
Rev:	A

NOTES

1. HOT & COLD WATER SUPPLY TO RETICULATE THROUGHOUT BUILDING TO ALL FIXTURES AS REQUIRED. PIPEWORK SHOWN AS INDICATIVE ONLY. ALLOW TO RUN HOT WATER FLOW & RETURN PIPEWORK TO WITHIN 3 METERS OF TMV'S. TMV'S TO BE PROVIDED TO SERVE FIXTURES AS REQUIRED WITH A MAXIMUM OF 7 METERS OF PIPEWORK FROM TMV TO FIXTURE OUTLET.
2. ALL HOT AND COLD WATER SERVICES TO BE INSTALLED IN ACCORDANCE WITH NSW HEALTH POLICY DIRECTIVE - WATER - REQUIREMENTS FOR THE PROVISION OF COLD & HEATED WATER.
3. ALLOW TO INSTALL ALL PIPEWORK ABOVE COMMUNICATION ROOMS AND THEATRES IN HDPE MATERIAL WITH FUSION WELDED JOINTS.
4. ALL PIPEWORK ABOVE COMMUNICATION ROOMS AND THEATRES TO HAVE 300mm WIDE TRAYS INSTALLED BELOW PIPEWORK COMPLETE WITH SENSOR TO DETECT LEAKS. SENSOR TO BE CONNECTED TO BMS.
5. ALLOW TO PROVIDE TUNDISH POINTS TO ALL MECHANICAL PLANT. ALLOW TO COORDINATE EXACT TUNDISH REQUIREMENTS AND LOCATIONS WITH INSTALLING CONTRACTOR.
6. SANITARY PLUMBING PROVISION TO BE PROVIDED AGAINST ALL COLUMNS UNTIL CONFIRMED AS NOT REQUIRED IN LINE WITH FINAL CLINICAL LAYOUTS.
7. ALL HIGH TEMPERATURE DISCHARGE FROM PAN SANITISERS, UTENSIL WASHERS AND MECHANICAL HUMIDIFIERS TO BE INSTALLED IN HDPE MATERIAL.



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A		SCHEMATIC DESIGN ISSUE	MOS	B.P*	J.McP*	27.07.17



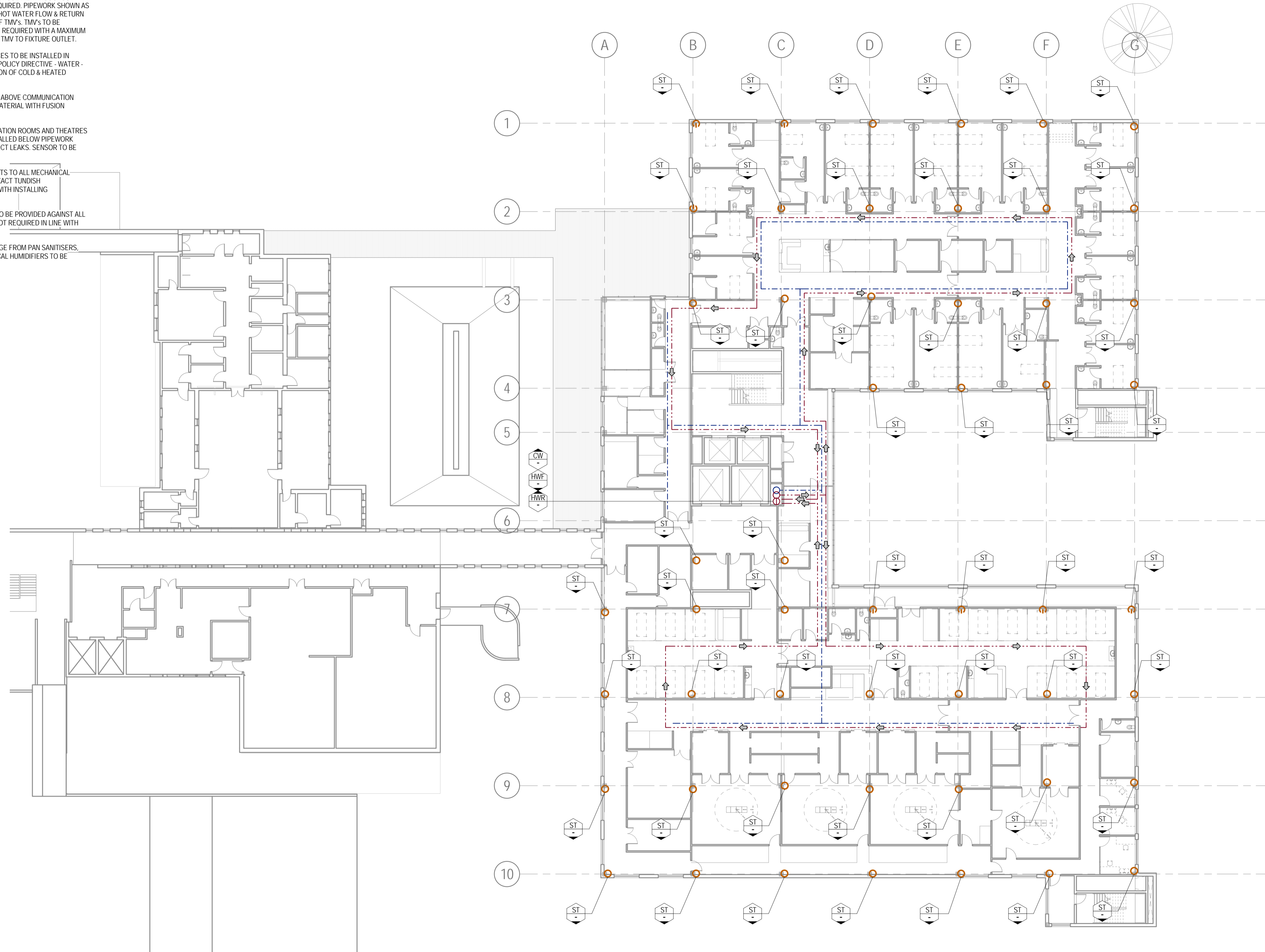
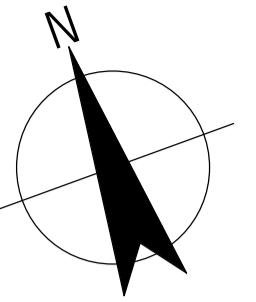
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Client	NSW HEALTH INFRASTRUCTURE
Project	GOULBURN HOSPITAL & HOSPITAL SERVICES REDEVELOPMENT
Title	HYDRAULIC SERVICES - GROUND
Original Size	Drawing No: 22-18102-H201
Rev:	A

NOTES

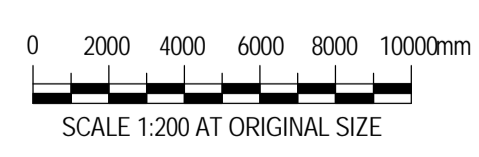
- HOT & COLD WATER SUPPLY TO RETICULATE THROUGHOUT BUILDING TO ALL FIXTURES AS REQUIRED. PIPEWORK SHOWN AS INDICATIVE ONLY. ALLOW TO RUN HOT WATER FLOW & RETURN PIPEWORK TO WITHIN 3 METERS OF TMV'S. TMV'S TO BE PROVIDED TO SERVE FIXTURES AS REQUIRED WITH A MAXIMUM OF 7 METERS OF PIPEWORK FROM TMV TO FIXTURE OUTLET.
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A		SCHEMATIC DESIGN ISSUE	MOS	B.P*	J.McP*	27.07.17



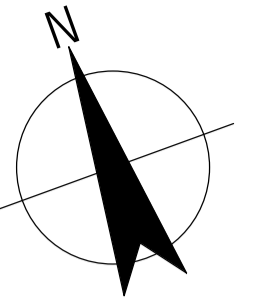
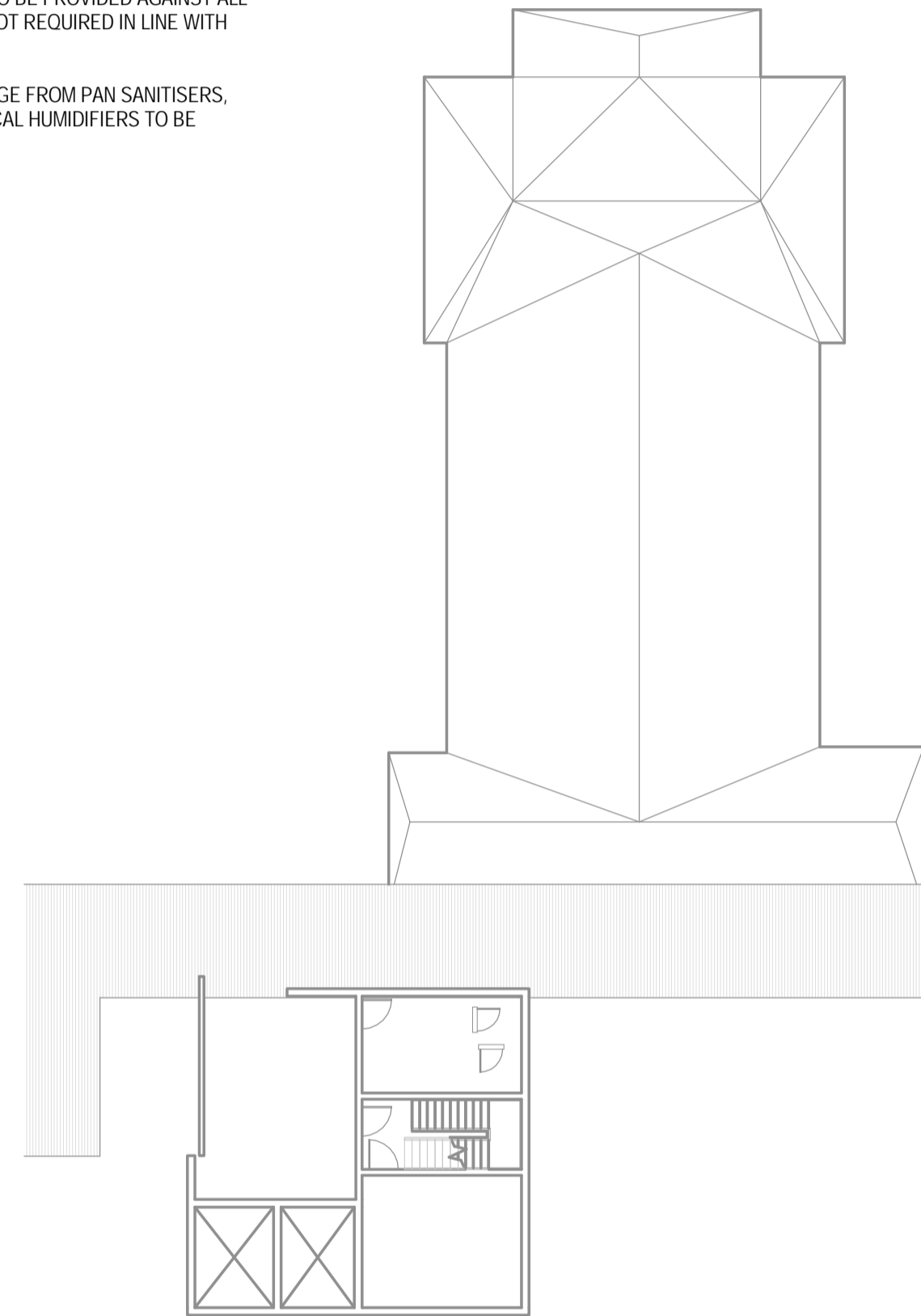
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Client	NSW HEALTH INFRASTRUCTURE
Project	GOULBURN HOSPITAL & HOSPITAL SERVICES REDEVELOPMENT
Title	HYDRAULIC SERVICES - FIRST
Original Size	A1
Drawing No:	22-18102-H202
Rev:	A

NOTES

- HOT & COLD WATER SUPPLY TO RETICULATE THROUGHOUT BUILDING TO ALL FIXTURES AS REQUIRED. PIPEWORK SHOWN AS INDICATIVE ONLY. ALLOW TO RUN HOT WATER FLOW & RETURN PIPEWORK TO WITHIN 3 METERS OF TMV'S. TMV'S TO BE PROVIDED TO SERVE FIXTURES AS REQUIRED WITH A MAXIMUM OF 7 METERS OF PIPEWORK FROM TMV TO FIXTURE OUTLET.
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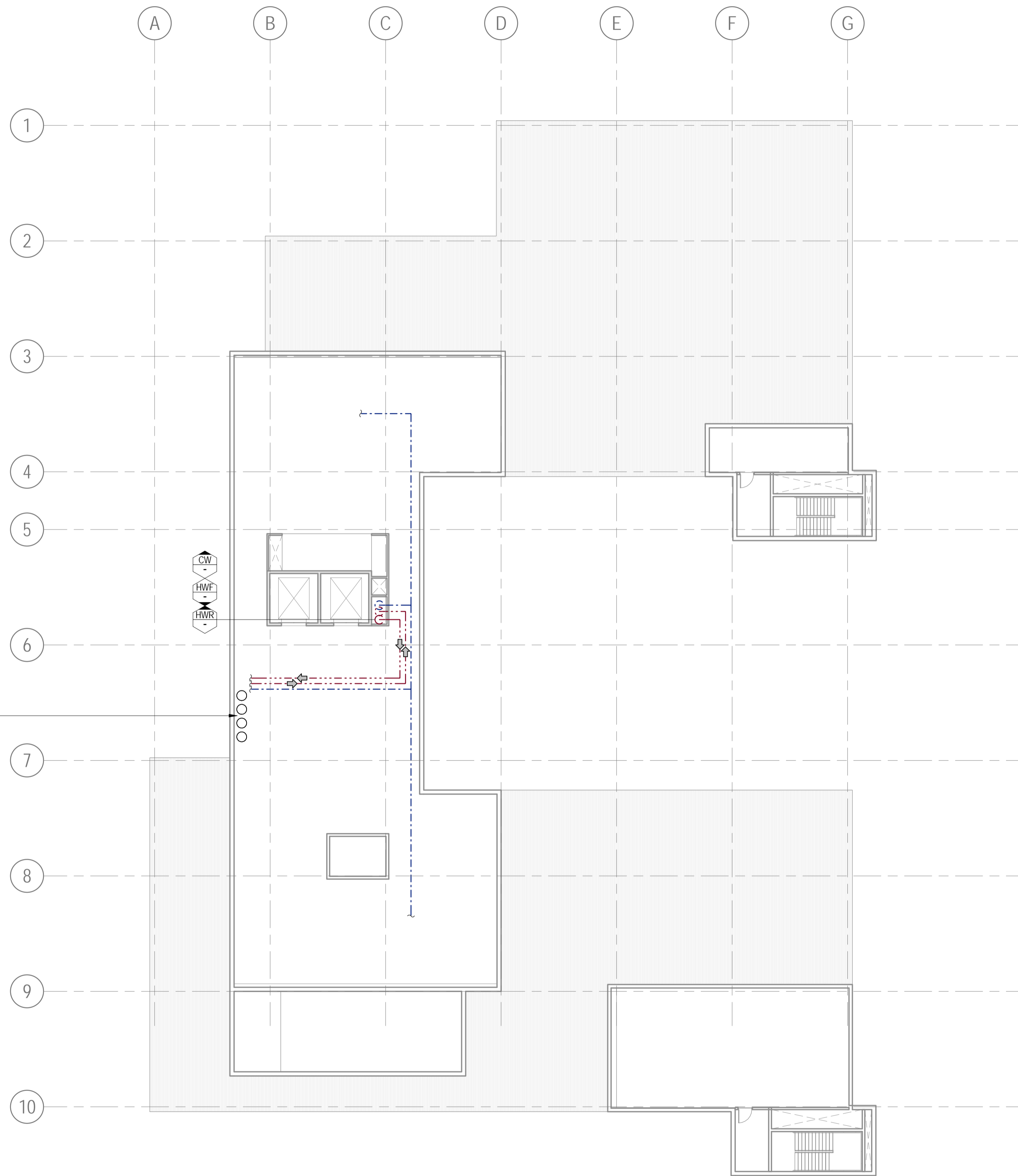
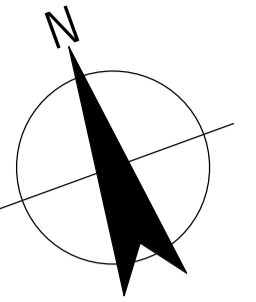
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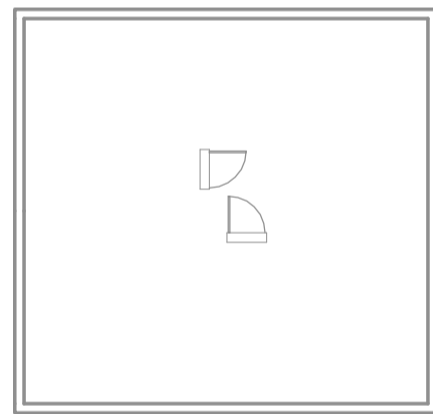
Client	NSW HEALTH INFRASTRUCTURE		
Project	GOULBURN HOSPITAL & HOSPITAL SERVICES REDEVELOPMENT		
Title	HYDRAULIC SERVICES - SECOND		
Original Size	Drawing No:	22-18102-H203	Rev: A

NOTES

- HOT & COLD WATER SUPPLY TO RETICULATE THROUGHOUT BUILDING TO ALL FIXTURES AS REQUIRED. PIPEWORK SHOWN AS INDICATIVE ONLY. ALLOW TO RUN HOT WATER FLOW & RETURN PIPEWORK TO WITHIN 3 METERS OF TMV'S. TMV'S TO BE PROVIDED TO SERVE FIXTURES AS REQUIRED WITH A MAXIMUM OF 7 METERS OF PIPEWORK FROM TMV TO FIXTURE OUTLET.
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HOT WATER PLANT LOCATION SHOWN AS INDICATIVE ONLY. FINAL LOCATION TO BE COORDINATED WITH MECHANICAL PLANT LAYOUTS.



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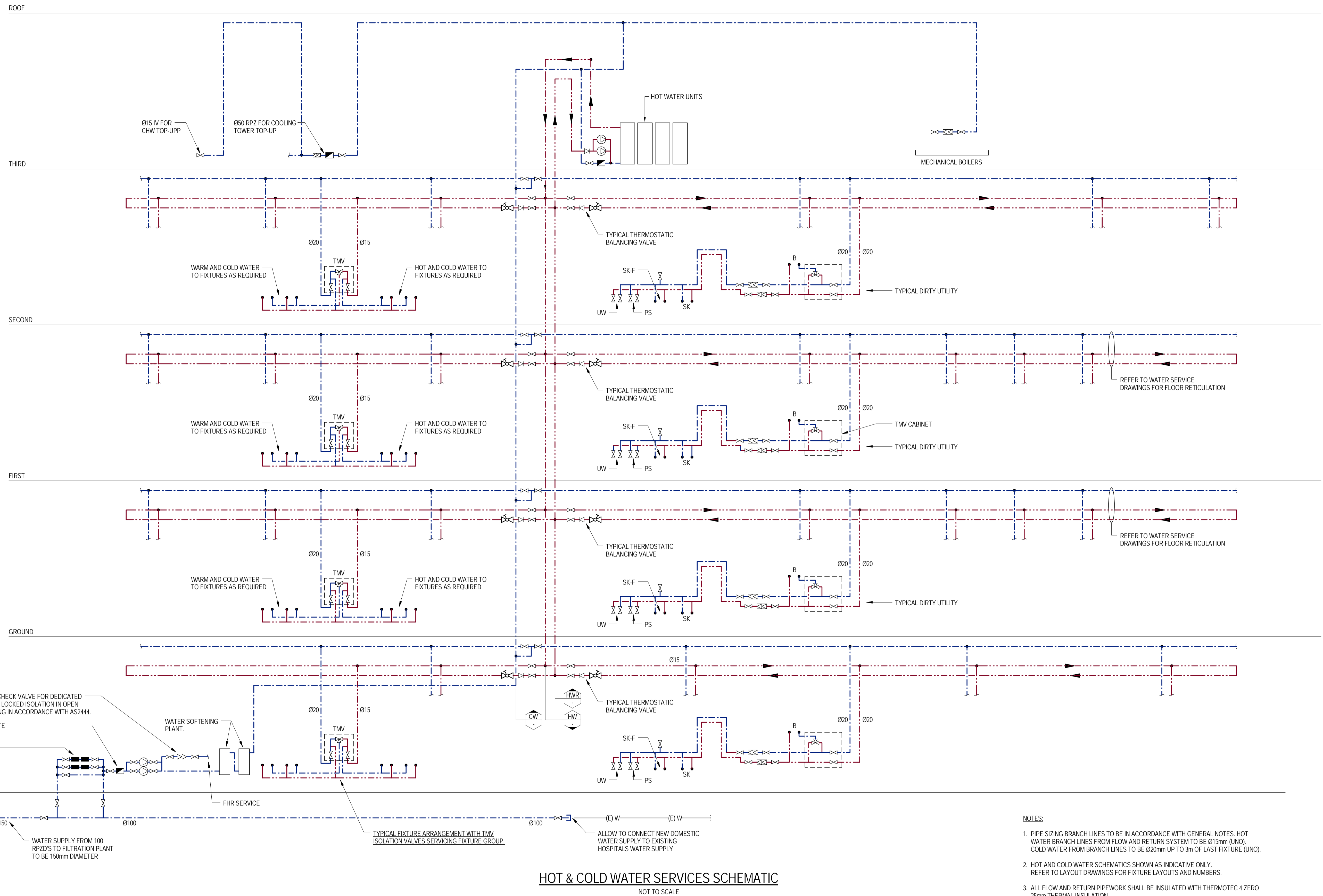
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Client	NSW HEALTH INFRASTRUCTURE		
Project	GOULBURN HOSPITAL & HOSPITAL SERVICES REDEVELOPMENT		
Title	HYDRAULIC SERVICES - THIRD		
Original Size	Drawing No:	22-18102-H204	Rev: A



- NOTES:**
- PIPE SIZING BRANCH LINES TO BE IN ACCORDANCE WITH GENERAL NOTES. HOT WATER BRANCH LINES FROM FLOW AND RETURN SYSTEM TO BE Ø15mm (UNO). COLD WATER FROM BRANCH LINES TO BE Ø20mm UP TO 3m OF LAST FIXTURE (UNO).
 - HOT AND COLD WATER SCHEMATICS SHOWN AS INDICATIVE ONLY. REFER TO LAYOUT DRAWINGS FOR FIXTURE LAYOUTS AND NUMBERS.
 - ALL FLOW AND RETURN PIPEWORK SHALL BE INSULATED WITH THERMOTEC 4 ZERO 25mm THERMAL INSULATION.
 - ALL WATER METERS TO BE CONNECTED TO THE BMS. ALLOW TO COORDINATE BMS CONNECTIONS WITH MECHANICAL CONTRACTOR.

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A		SCHEMATIC DESIGN ISSUE	MOS	B.P*	J.McP*	27.07.17



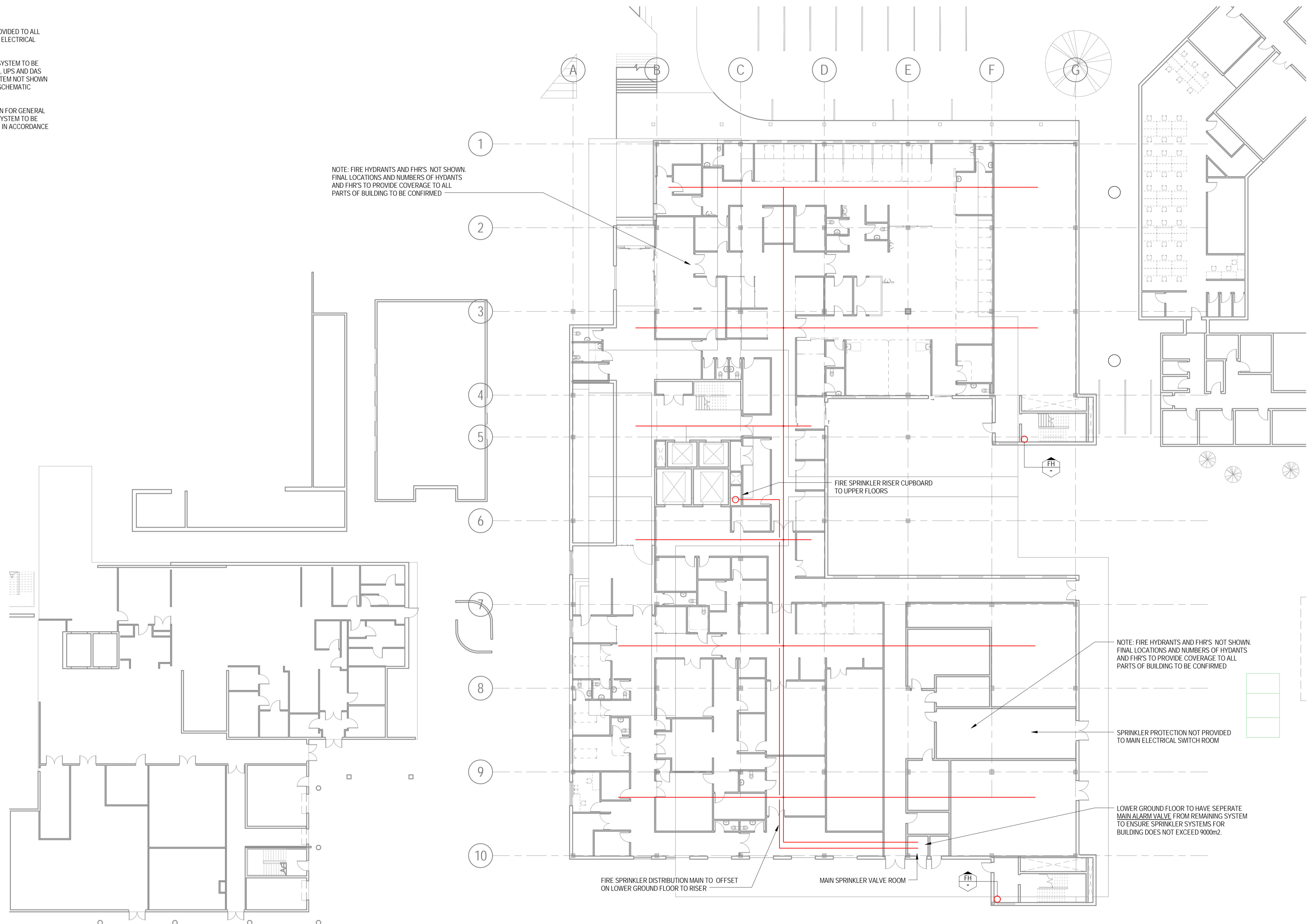
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Client	NSW HEALTH INFRASTRUCTURE
Project	GOULBURN HOSPITAL & HOSPITAL SERVICES REDEVELOPMENT
Title	HOT AND COLD WATER SERVICES SCHEMATIC
Original Size	Drawing No: 22-18102-H210
Rev:	A

NOTES

1. SPRINKLER PROTECTION TO BE PROVIDED TO ALL BUILDING AREAS EXCEPT THE MAIN ELECTRICAL SWITCH ROOM.
2. PRE-ACTION DRY PIPE SPRINKLER SYSTEM TO BE PROVIDED TO ALL COMMUNICATION, UPS AND DAS ROOMS. PRE-ACTION DRY PIPE SYSTEM NOT SHOWN ON DRAWING LAYOUTS. REFER TO SCHEMATIC LAYOUTS FOR SYSTEM INTENT.
3. SPRINKLER SYSTEM LAYOUT SHOWN FOR GENERAL DESIGN INTENT ONLY. SPRINKLER SYSTEM TO BE INSTALLED THROUGHOUT BUILDING IN ACCORDANCE WITH AS2118.1 1999.



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Client	NSW HEALTH INFRASTRUCTURE
Project	GOULBURN HOSPITAL & HOSPITAL SERVICES REDEVELOPMENT
Title	FIRE SERVICES - LOWER GROUND
Original Size	A1
Drawing No:	22-18102-H300
Rev:	A

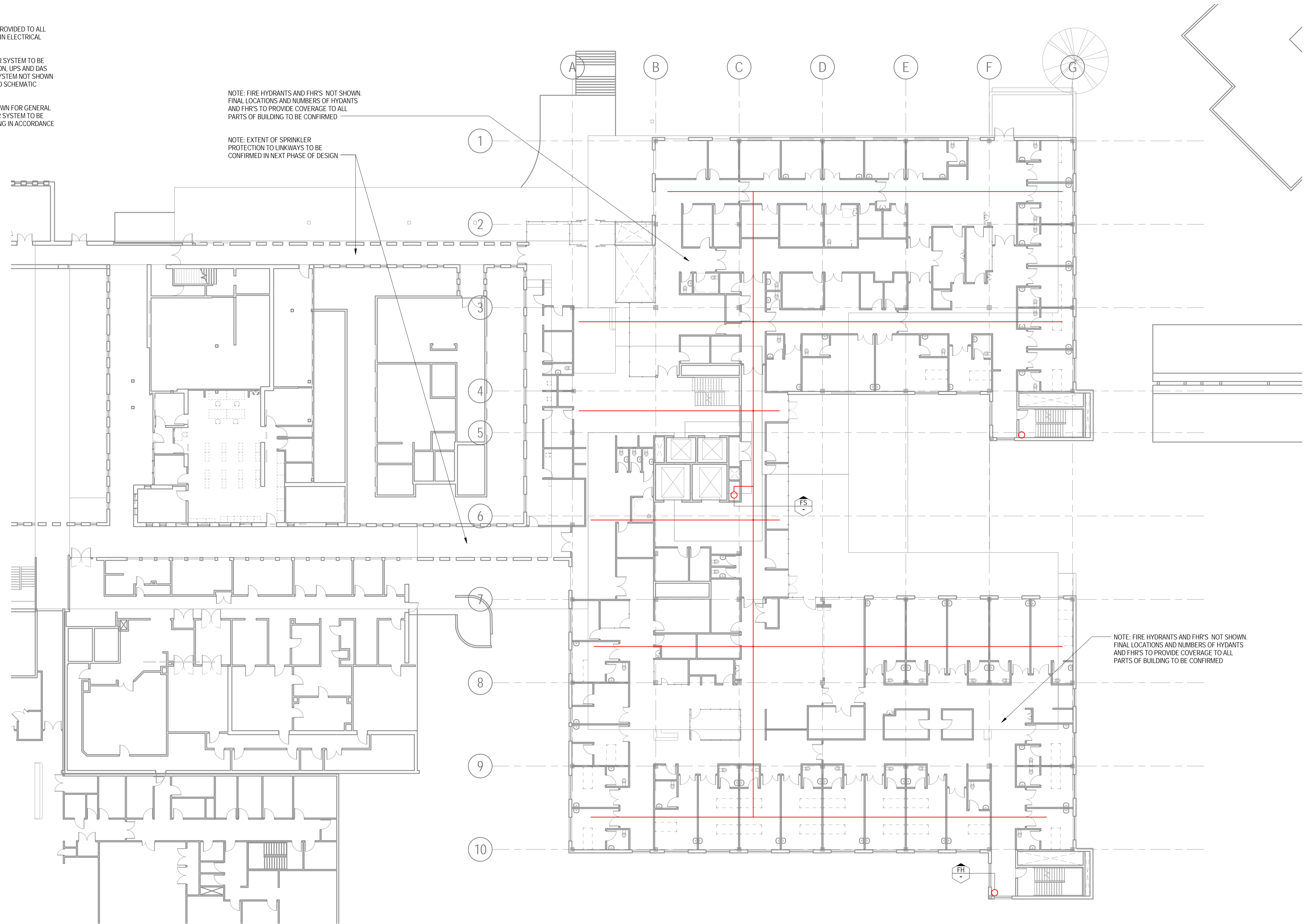
NOTES

1. SPRINKLER PROTECTION TO BE PROVIDED TO ALL BUILDING AREAS EXCEPT THE MAIN ELECTRICAL SWITCH ROOM.
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3. SPRINKLER SYSTEM LAYOUT SHOWN FOR GENERAL DESIGN INTENT ONLY. SPRINKLER SYSTEM TO BE INSTALLED THROUGHOUT BUILDING IN ACCORDANCE WITH AS2118.1 1999.

NOTE: FIRE HYDRANTS AND FHR'S NOT SHOWN. FINAL LOCATIONS AND NUMBERS OF HYDRANTS AND FHR'S TO PROVIDE COVERAGE TO ALL PARTS OF BUILDING TO BE CONFIRMED

NOTE: EXTENT OF SPRINKLER PROTECTION TO LINKWAYS TO BE CONFIRMED IN NEXT PHASE OF DESIGN

NOTE: FIRE HYDRANTS AND FHR'S NOT SHOWN. FINAL LOCATIONS AND NUMBERS OF HYDRANTS AND FHR'S TO PROVIDE COVERAGE TO ALL PARTS OF BUILDING TO BE CONFIRMED



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Project	GOULBURN HOSPITAL & HOSPITAL SERVICES REDEVELOPMENT		
Title	FIRE SERVICES - GROUND		
Original Size	Drawing No:	22-18102-H301	Rev: A

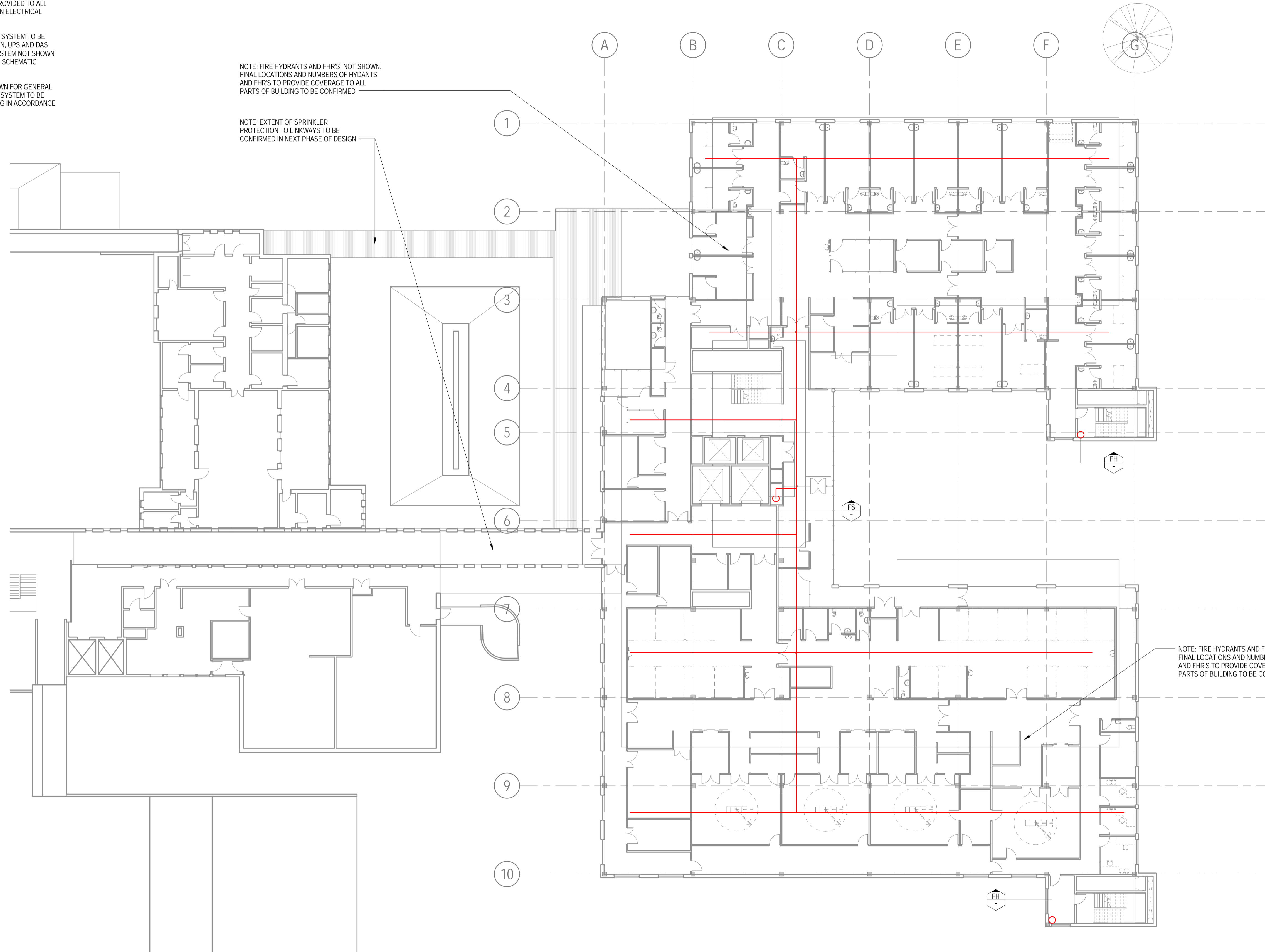
NOTES

1. SPRINKLER PROTECTION TO BE PROVIDED TO ALL BUILDING AREAS EXCEPT THE MAIN ELECTRICAL SWITCH ROOM.
2. PRE-ACTION DRY PIPE SPRINKLER SYSTEM TO BE PROVIDED TO ALL COMMUNICATION, UPS AND DAS ROOMS. PRE-ACTION DRY PIPE SYSTEM NOT SHOWN ON DRAWING LAYOUTS. REFER TO SCHEMATIC LAYOUTS FOR SYSTEM INTENT.
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NOTE: FIRE HYDRANTS AND FHR'S NOT SHOWN. FINAL LOCATIONS AND NUMBERS OF HYDRANTS AND FHR'S TO PROVIDE COVERAGE TO ALL PARTS OF BUILDING TO BE CONFIRMED

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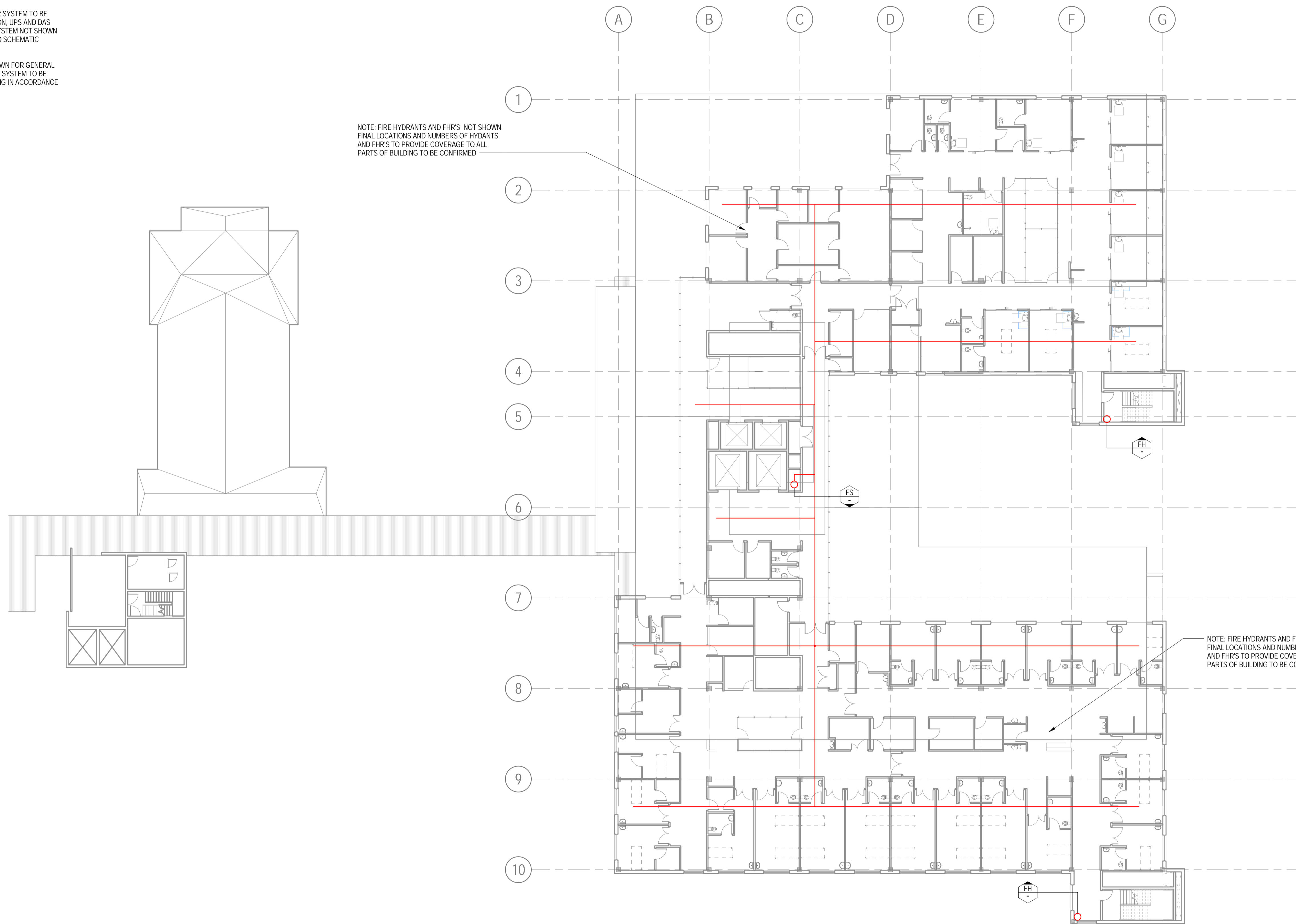
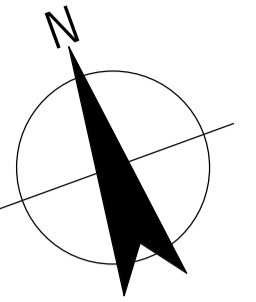
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Client	NSW HEALTH INFRASTRUCTURE		
Project	GOULBURN HOSPITAL & HOSPITAL SERVICES REDEVELOPMENT		
Title	FIRE SERVICES - FIRST		
Original Size	Drawing No:	22-18102-H302	Rev: A

NOTES

1. SPRINKLER PROTECTION TO BE PROVIDED TO ALL BUILDING AREAS EXCEPT THE MAIN ELECTRICAL SWITCH ROOM.
2. PRE-ACTION DRY PIPE SPRINKLER SYSTEM TO BE PROVIDED TO ALL COMMUNICATION, UPS AND DAS ROOMS. PRE-ACTION DRY PIPE SYSTEM NOT SHOWN ON DRAWING LAYOUTS. REFER TO SCHEMATIC LAYOUTS FOR SYSTEM INTENT.
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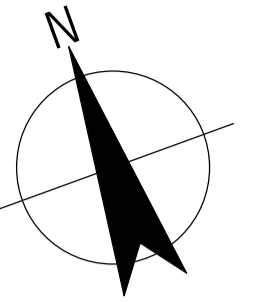
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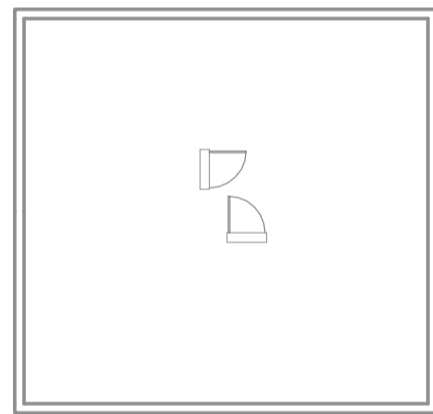
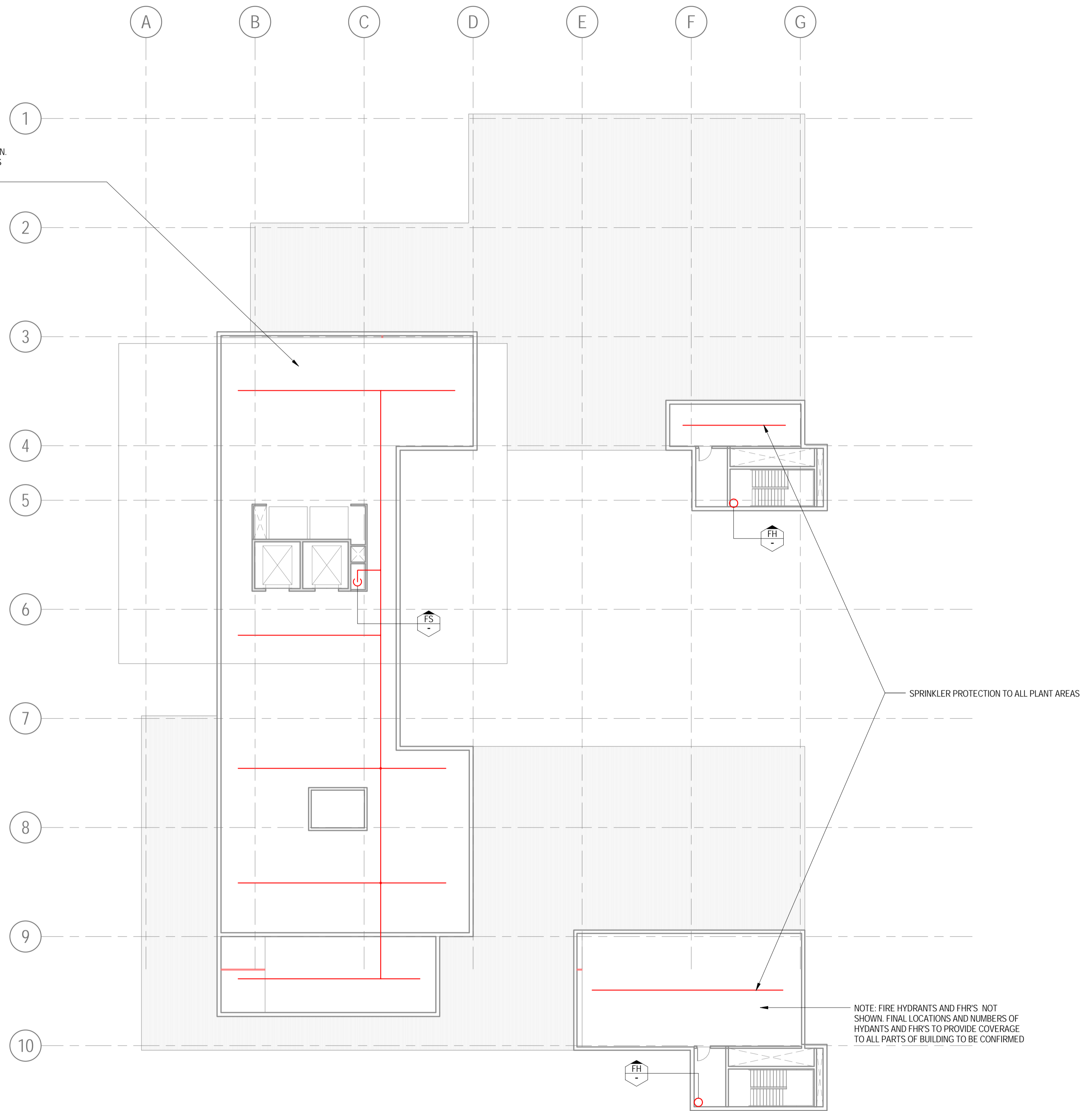
Client	NSW HEALTH INFRASTRUCTURE
Project	GOULBURN HOSPITAL & HOSPITAL SERVICES REDEVELOPMENT
Title	FIRE SERVICES - SECOND
Original Size	Drawing No: 22-18102-H303
Rev:	A

NOTES

1. SPRINKLER PROTECTION TO BE PROVIDED TO ALL BUILDING AREAS EXCEPT THE MAIN ELECTRICAL SWITCH ROOM.
2. PRE-ACTION DRY PIPE SPRINKLER SYSTEM TO BE PROVIDED TO ALL COMMUNICATION, UPS AND DAS ROOMS. PRE-ACTION DRY PIPE SYSTEM NOT SHOWN ON DRAWING LAYOUTS. REFER TO SCHEMATIC LAYOUTS FOR SYSTEM INTENT.
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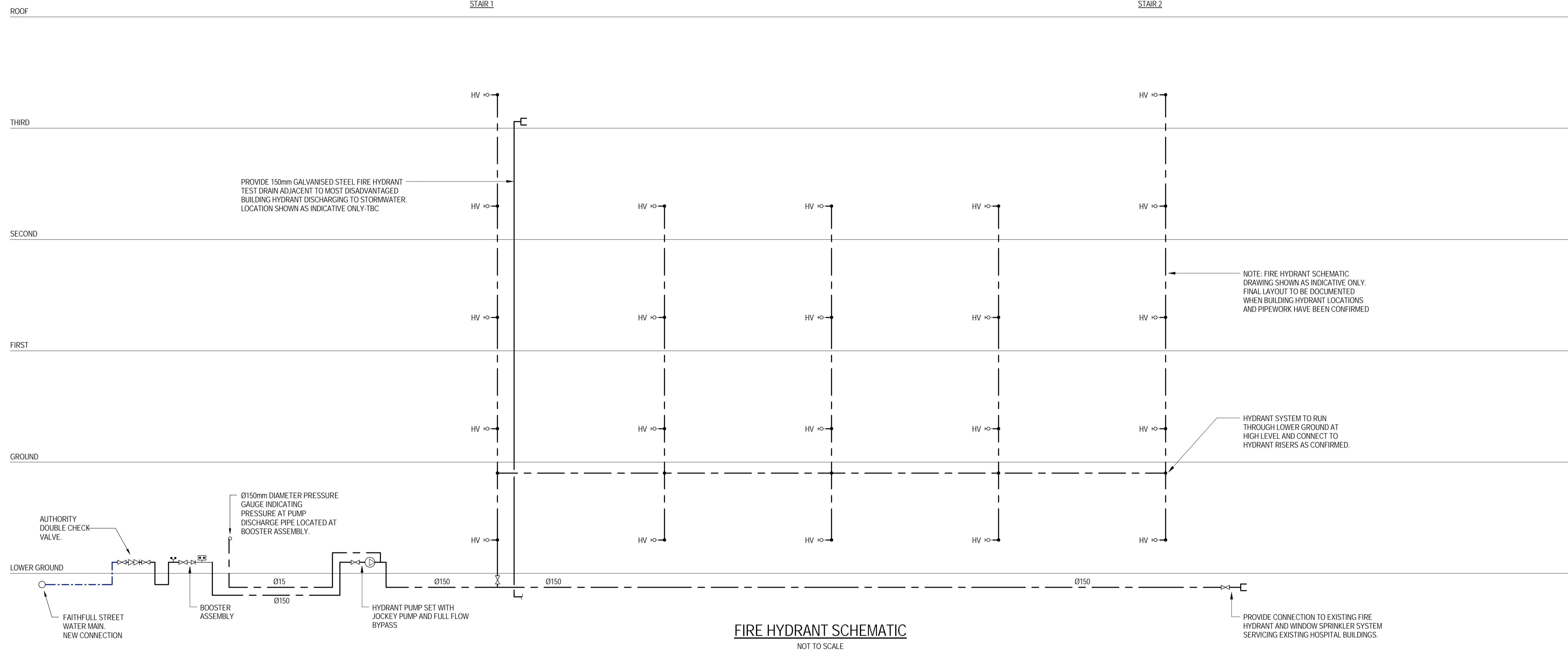
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Project	GOULBURN HOSPITAL & HOSPITAL SERVICES REDEVELOPMENT		
Title	FIRE SERVICES - THIRD		
Original Size	A1	Drawing No:	22-18102-H304
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FIRE HYDRANT SCHEMATIC
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A		SCHEMATIC DESIGN ISSUE	MOS	B.P*	J.McP*	27.07.17

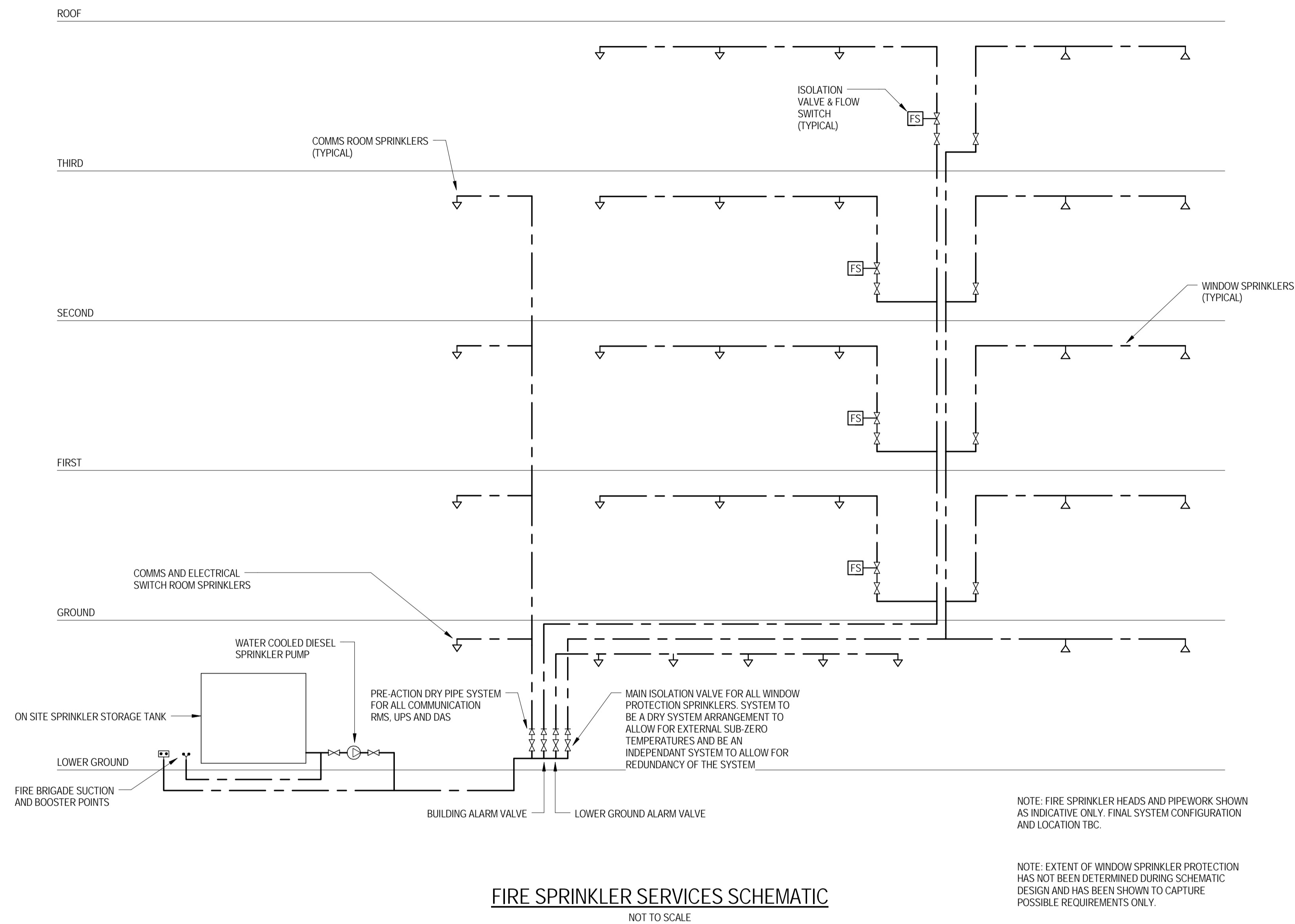


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Drafting Check		Design Check	
Approved (Project Director)		Date	
Scale	1 : 1	This Drawing must not be used for Construction unless signed as Approved	

Client	NSW HEALTH INFRASTRUCTURE		
Project	GOULBURN HOSPITAL & HOSPITAL SERVICES REDEVELOPMENT		
Title	FIRE SERVICES SCHEMATICS - SHEET 1		
Original Size	A1	Drawing No:	22-18102-H310
		Rev:	A



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Client	NSW HEALTH INFRASTRUCTURE		
Project	GOULBURN HOSPITAL & HOSPITAL SERVICES REDEVELOPMENT		
Title	FIRE SERVICES SCHEMATICS - SHEET 2		
Original Size	A1	Drawing No:	22-18102-H311
		Rev:	A