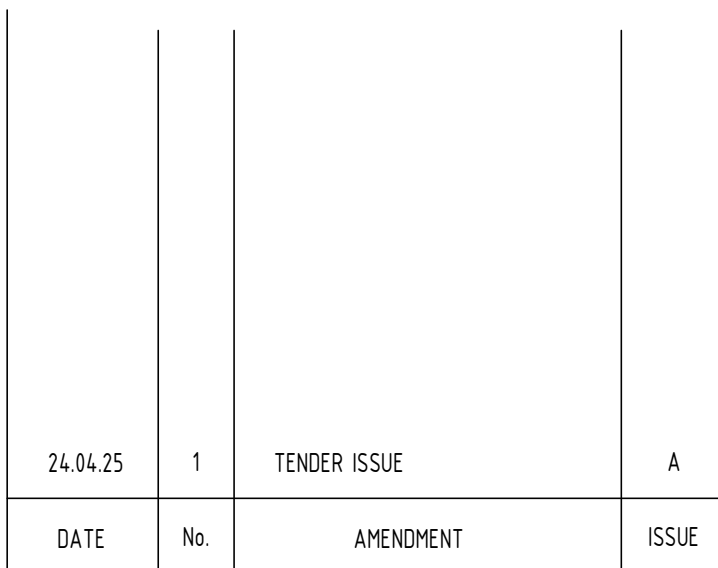
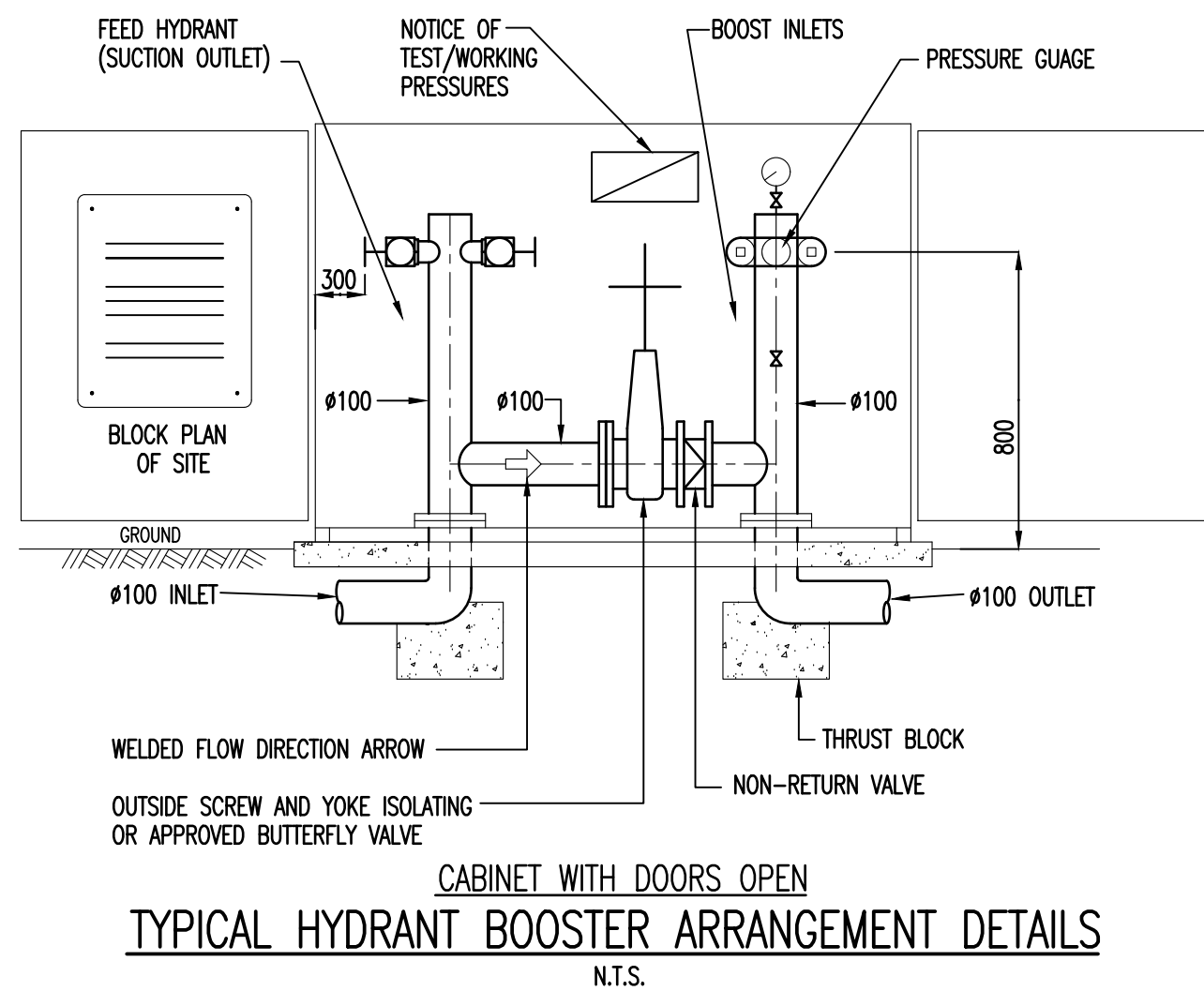


HYDRAULIC SERVICES - DRAWING SCHEDULE	
SHEET	TITLE
H000	DRAWING SCHEDULE & LEGEND
H001	SITE PLAN
H101	DRAINAGE SERVICES FLOOR PLAN - PART 1
H102	DRAINAGE SERVICES FLOOR PLAN - PART 2
H103	ROOF PLAN
H201	WATER SERVICES FLOOR PLAN - PART 1
H202	WATER SERVICES FLOOR PLAN - PART 2
H301	HOT & COLD WATER DETAILS
H401	HYDRANT & HOSE REEL COVERAGE PLAN



THESE DRAWINGS, NOTES AND SPECIFICATION ARE ISSUED AS A GENERAL ILLUSTRATION OF WORKS REQUIRED TO BE INSTALLED THIS DOES NOT REMOVE THE LIABILITY OF THE CONTRACTOR TO ENSURE THAT THE WORKS ARE INSTALLED IN ACCORDANCE WITH THE BCA, AUSTRALIAN STANDARDS AND AUTHORITIES HAVING JURISDICTION. IT IS THE CONTRACTORS RESPONSIBILITY TO ENGAGE A THIRD PARTY CERTIFIER AFTER COMPLETION OF THE WORKS

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GLENN HAIG & PARTNERS

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AQUATIC ■ SPORTS ■ LEISURE ■ CIVIC ■ PROJECT MANAGEMENT

CLIENT :  Snowy Valleys Council

PROJECT :
MULTIPURPOSE + EVACUATION CENTRE
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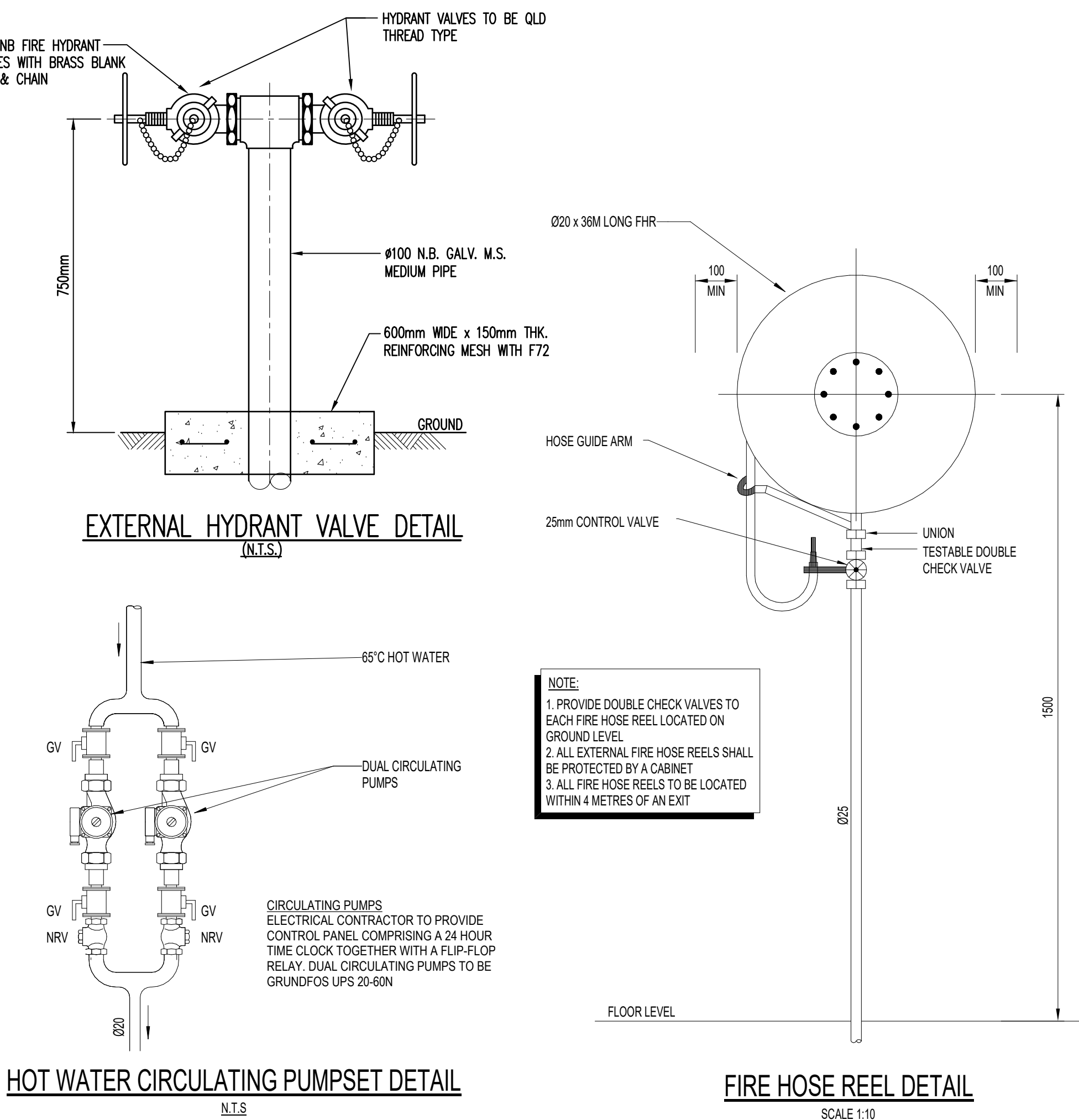
office@glennhaig.com.au

TITLE : HYDRAULIC SERVICES

DRAWING SCHEDULE & LEGEND

Date : April 2025		Drawn : JD	
Scales : @ A1		Checked : GH	
Job No. : 244117	Cad File No. : 244117 H000	Drawing No. : H000	

A/V	AIR ADMITTANCE VALVE
B/W	BOILING WATER UNIT
BTWF	BUCKET TRAP FLOOR WASTE
CV	CONTROL VALVE
C/O	CLEAR OUT
C	COPPER
CS	CLEANERS SINK
DCV	DOUBLE CHECK VALVE
DW	DISHWASHER
DCL	DUCTILE IRON CEMENT LINED
DP	DOWNPIPE
EX	EXISTING
ED	ELVATED DRAINAGE
EJ	EXPANSION JOINT
F	FLOOR WASTE
HDPE	HIGH DENSITY POLYETHYLENE
I	INVERT LEVEL
IS	INSPECTION SHAFT
HW	HOT WATER HEATER
RH/R	OVERFLOW RELIEF GULLY
PD	PLANTER DRAIN
P	POLYETHYLENE
PCP	REINFORCED CONCRETE PIPE
LD	REDUCED LEVEL
RPZD	REDUCED PRESSURE ZONE DEVICE
RV	RELIEF VENT
SK	SINK
SHR	SHOWER
ST	STACK DRAINAGE
TT	TRAPPED TUNDSH
T	TUNDSH
TPW	TRADE WASTE VENT PIPE



SUPPLY AND INSTALL A FIRE HYDRANT SERVICE TO THE LOCATIONS SHOWN ON THE DRAWINGS.
INCLUDE FOR ALL PIPING, FITTINGS, VALVES, AND HYDRANT VALVES TO THE LOCATIONS SHOWN ON THE DRAWINGS
AND OTHER SUNDRY ITEMS OF EQUIPMENT AS REQUIRED FOR THE INSTALLATION.
THE HYDRANT SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH AS 2419.1-2021, QUEENSLAND FIRE DEPARTMENT
GUIDELINES, AND THE BUILDING CODE OF AUSTRALIA.

PIPEWORK MATERIALS SHALL BE:

INGROUND: HDPE PE100 PN16 RED LINE

ABOVE GROUND: GALVANISED MILD STEEL PIPE AND FITTINGS:

- A. SHALL BE IN CONFORMITY WITH HEAVY GRADE AS 1074 – STEEL TUBES AND TUBULARS FOR ORDINARY SERVICE.
- B. SHALL BE EQUAL TO TUBEMAKERS AUSTRALIA (INFRABUILD STEEL)
- C. SHALL BE IN ACCORDANCE WITH AS 2419.1
- D. SHALL BE 3.04MM WALL THICKNESS FOR PIPE DIAMETERS UP TO AND INCLUDING 100MM AND A MINIMUM OF 3.4MM FOR PIPE DIAMETERS GREATER THEN 100MM AND UP TO 150MM.
- E. SHALL BE HOT DIPPED GALVANIZED INTERNALLY AND EXTERNALLY AND AT THEIR ENDS IN ACCORDANCE WITH AS/NZS 4792. – THE GALVANIZED COATING SHALL HAVE A MINIMUM ZINC COATED MASS OF 300G/M2.
- F. ARE TO BE CERTIFIED OR LISTED BY A TESTED AND CERTIFIED BY A RECOGNISED BODY AS BEING FIT FOR PURPOSE IN HYDRANT SYSTEMS IN ACCORDANCE WITH CLAUSE 8.2.4.3 OF AS 2419.1
- G. SHALL NOT BE ON-SITE WELDED OR MODIFIED.
- H. ANY CUTTING THAT EXPOSES THE BASE METAL OR DAMAGES THE GALVANIZED PROTECTIVE COATING SHALL BE REPAIRED IN ACCORDANCE WITH AS 2419.1
- I. ANY DISTURBANCE OF THE PROTECTIVE COATINGS BY CUTTING, ROLL GROOVING OR HANDLING SHALL BE REPAIRED WITH A ZINC-RICH PRIMER OR EQUIVALENT IN ACCORDANCE WITH AS/NZS 4792
- J. SHALL BE SCREW JOINTED WITH APPROVED COMPOUND FOR THE SERVICE OR PATENTED APPROVED GALVANISED ROLLED GROOVED COUPLING.
- K. SHALL BE POLYTEC COATED OR WRAPPED WITH APPROVED PROTECTIVE TAPE WHERE LOCATED UNDERGROUND.
- L. PIPE MARKING SHALL BE IN ACCORDANCE WITH AS 2419.1

- 2 HYDRANTS; SUPPLY AND INSTALL LEADING VALVE HYDRANTS IN APPROVED LOCATIONS WITH THE CENTRE OF THE VALVE
750-mm ABOVE FINISHED GROUND LEVEL.
- 3 TESTING OF PIPEWORK TEST ALL PIPEWORK 1700 KPA FOR A PERIOD OF TWO HOURS IN ACCORDANCE WITH AS 2419.1.
SATISFACTION OF THE FIRE BRIGADE AND THE SUPERINTENDENT.
- 4 RECORD PRESSURE AND FLOW RESULTS AND ADVISE IN WRITING TO THE SUPERINTENDENT.
- 5 FORM 15: A FORM 15 – FLOW TEST SHALL BE UNDERTAKEN IN THE PRESENCE OF THE SUPERINTENDENT.
FLOW TESTS SHALL BE WITH TWO MOST HYDRAULICALLY DISADVANTAGED HYDRANTS OPERATING, ON COMPLETION OF THE
FLOW TEST, SUPPLY THE SUPERINTENDENT WITH A FORM 15 AND FA CERTIFICATE WITH THE FOLLOWING ITEMS:
FLOW RATE, PRESSURE, DATE, TIME, WITNESS NAME & SIGNATURE.
- 6 BLOCK PLAN: A BLOCK PLAN SHALL BE PROVIDED AT THE BOOSTER LOCATION IN ACCORDANCE WITH AS2419.1
THE BLOCK PLAN IS TO INCORPORATE THE NEW SITE HYDRANT SERVICE.
- 7 TAGGING: ALL FIRE HYDRANTS SHALL BE TAGGED IN ACCORDANCE WITH AS 1851.4
THE PLUMBING CONTRACTOR SHALL MAINTAIN THE FIRE HYDRANTS FOR 12 MONTHS AND SHALL
NOTIFY THE SUPERINTENDENT THAT ALL FIRE HYDRANTS HAVE TO BE INSPECTED AND TAGGED IN ACCORDANCE WITH AS 1851.4
AN INSTALLATION LOG SHALL BE KEPT ON-SITE FOR THE FIRE HYDRANTS.
- 8 ALL WORKS TO BE INSTALLED IN ACCORDANCE WITH LOCAL AUTHORITIES REQUIREMENTS,
AS3500 NATIONAL PLUMBING & DRAINAGE CODE & AS 2419.1 FIRE HYDRANT INSTALLATIONS.
- 9 THE CONTRACTOR IS TO CONFIRM LOCATION & DEPTH OF EXISTING SERVICES ON SITE PRIOR TO
CONSTRUCTION, IF ANY CONFLICT EXISTS NOTIFY CLIENT IMMEDIATELY.
- 9 BACKFILLING
BACKFILL SERVICE TRENCHES AS SOON AS POSSIBLE AFTER SERVICE HAS BEEN LAID AND BEDDED.
PLACE THE BACKFILL IN LAYERS <150mm THICK AND COMPACT TO THE DENSITY WHICH APPLIES TO
THE LOCATION OF THE TRENCHES TO MINIMISE SETTLEMENT.
- 10 BACKFILL MATERIAL
GENERAL FILL WITH NO STONES GREATER THAN 25mm OCCURRING WITHIN 150mm OF THE SERVICE
UNDER ROADS AND PAVED AREAS AND WITHIN 4 METRES OF BUILDING; COARSE SAND, CONTROLLED
LOW STRENGTH MATERIAL OR FINE CRUSHED ROCK.
- 11 ALL CHANGES IN DIRECTION ON UPVC CRUSHED ROCK TO BE PROVIDED WITH CONCRETE 20 MPa THRUST BLOCKS
DESIGNED IN ACCORDANCE WITH AS5000.4 ANCHORAGE BOLD GROUND.
- 12 ALLOW TO SUBMIT A SET OF AS BUILT DWGS TO THE CLIENT IN ELECTRONIC (CAD) FORMAT AT THE COMPLETION OF THE INSTALLATION
13 ALL FITTINGS, VALVES, ETC. WHICH ARE TO BE REMOVED ARE TO BE RETURNED TO THE CLIENT
- 14 CONTRACTOR SHALL ALLOW FOR SOIL MOVEMENT FOR ALL INGROUND PIPEWORK IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. ALLOW FOR
SWIVEL JOINTS, EXPANSION JOINTS AS NECESSARY FOR CORRECT INSTALLATION OF THE PIPEWORK. EXTENT TO BE CONFIRMED