

PROPOSED LOCATION FOR DRINKING COLD WATER TREATMENT PLANTCONTAINER
DIMENSION: 6000mm (L) x 2500 (W) x 2400 (H)
REFER TO SECTION ABOVE FOR EQUIPMENT LAYOUT

TWO 15 KL ABOVE GROUND KINGSPN STAINLESS STEEL DRINKING COLD
WATER STORAGE TANK
DIMENTION : 2900 mm (Dia.) x 2400 mm (H)

TWO (2) 75KL STAINLESS STEEL ABOVE-GROUND DRINKING WATER
STORAGE TANKS TO STORE DRINKING WATER. EACH TANK SHALL BE
COMPLETE WITH A SECURELY SEALED LID, OVERFLOW OUTLET, SLUDGE
DRAIN, ASSOCIATED PIPEWORK, AND ISOLATION VALVES, DESIGNED TO
ENSURE SAFE AND EFFICIENT OPERATION FOR POTABLE WATER USE.

COMMUNICATIONS NETWORK - UNIFI BUILDING - TO - BUILDING
BRIDGE ANTENNA TO BE INSTALLED ON THE EXISTING ROOFWALL.

TWO (2) 75KL ABOVE GROUND RAINWATER TANK TO COLLECT RAINWATER
FROM BUILDINGS ROOF COMPLETE WITH SECURELY SEALD LID, OVERFLOW
. SLUGE DRAIN AND FIRST FLUSH DEVICE.

COMMUNICATIONS CABINET (NEW)
12RU x 600mm (W) x 600mm (D) COMMUNICATIONS CABINET TO BE
PROVIDED WITHIN THE EXISTING RESTAURANT. EXISTING NBN FIXED
WIRELESS CONNECTION TO BE REPLACED WITH A NEW FIXED
WIRELESS CONNECTION TO SERVE ADDITIONAL CARRIERS.

OVERFLOW FROM THE RAINWATER HARVESTING TANK SHALL DISCHARGE INTO THE
INGROUND CIVIL STORMWATER SYSTEM. COORDINATION WITH THE CIVIL ENGINEER IS
REQUIRED FOR THIS CONNECTION.

ESSENTIAL ENERGY'S EXISTING OVERHEAD HIGH VOLTAGE CABLE
TO BE DIVERTED TO UNDERGROUND BY OTHERS.

LEGEND

- NEW DRINKING COLD WATER (DCW)
- NEW SANITARY DRAINAGE
- NEW RAIN WATER COLLECTION PIPEWORK
- NEW NON-DRINKING WATER SUPPLY PIPEWORK
- NEW FIRE HYDRANT RETICULATION
- INSPECTION OPENING TO SURFACE C/W HEAVY DUTY COVER
- SEWER MANHOLE
- FIRE HYDRANT STANDPIPE
- ISOLATION VALVE
- ELECTRICAL MAIN SWITCHBOARD
- NEW ELECTRICAL LV CONDUIT
- NEW COMMUNICATIONS CONDUIT
- LV ELECTRICAL PIT
- LV ELECTRICAL PILLAR
- COMMUNICATIONS PIT
- BUILDING - TO - BUILDING COMMUNICATIONS ANTENNA

ESSENTIAL ENERGY SUBSTATION
INDICATIVE LOCATION OF ESSENTIAL ENERGY'S PAD MOUNT
SUBSTATION TO BE PROVIDED BY OTHERS.

SITE MAIN SWITCHBOARD - SMSB (NEW)
2400mm(W) x 700mm(D) x 2100mm(H) WITH 1200mm CLEARANCE FROM
THE FRONT OF THE SWITCHBOARD.
FREE STANDING TO BE TO BE MOUNTED ON CONCRETE SLAB TO
REPLACE THE EXISTING MSB. CONSUMER MAIN CABLES IN
UNDERGROUND CONDUITS FROM LV SECTION OF THE SUBSTATION.

NOTE
EXACT POSITION OF ELECTRICAL SUBSTATION AND SMSB TO
BE DETERMINED AND APPROVED BY ASP3 CERTIFIED
ENGINEER TO SUIT RELEVANT LEGISLATION & REQUIREMENTS.

THE EXISTING WATER STORAGE TANK IS TO REMAIN FOR POOL FACILITIES.
RAINWATER FROM THE ROOF OF THE LODGE BUILDING WILL BE COLLECTED
VIA STORMWATER PIPEWORK AND TRANSFERRED TO THE RAINWATER
TANK FOR FILTRATION.

2000mm (W) x 3000mm (L) x 2400 mm (H) WEATHERPROOF ENCLOUSER FOR DAM
WATER FILTRATION AND DUAL PRESSURE BOOSTER PUMP SET TO USE FOR WC
FLUSHING IN UNITS.
NOTE: DAM WATER WILL BE UTILIZED FOR TOILET FLUSHING AND IF WATER SUPPLY
HAS SUFFICIENT PRESSURE WE MAY REMOVE PRESSURE BOOSTER PUMP SET
AND WE WILL NEED JUST BAG WASH AND BACK WASH FILTER.

COMMUNICATIONS NETWORK - UNIFI BUILDING - TO - BUILDING
BRIDGE ANTENNA TO BE INSTALLED ON THE ROOF/WALL.

COMMUNICATIONS CABINET (NEW)
6RU x 600mm (W) x 600mm (D) COMMUNICATIONS CABINET TO BE
PROVIDED WITHIN THE NEW BUILDING FOR COMMUNICATIONS
DISTRIBUTION NETWORK THROUGHOUT THE VILLAS.

NON-DRINKING COLD WATER SUPPLY TO BE LOCATED AND CONNECTED TO
THE EXISTING TANK SUPPLIED FROM THE EXISTING DAM. PIPE SIZE TO BE
CONFIRMED.

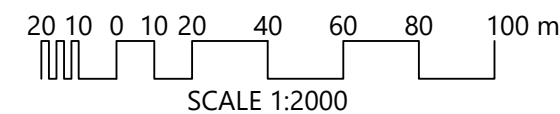
THE EXISTING 20KL WATER STORAGE TANK IS TO REMAIN IN USE FOR
IRRIGATION AND WCs FLUSHING. WATER SUPPLIED TO THIS TANK IS
SOURCED FROM THE DOME VIA THE EXISTING PUMP SET ON SITE.

ISOLATING VALVE IN A BELOW GROUND CI BOX FOR DRINKING COLD WATER
SUPPLY AND CAPPED FEED FOR FUTURE EXTENSION - (TYPICAL)

REV	DESCRIPTION	DATE	CHKD
C	CONCEPT	19.06.25	HA
C4	CONCEPT	11.06.25	HA
C3	CONCEPT	28.05.25	HA
C2	CONCEPT	07.05.25	HA
C1	CONCEPT	11.04.25	HA

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EXTENT OF THE SCOPE OF WORKS TO BE SHOWN.

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PROJECT
PEPPER STREET HILL ESTATE - REDEVELOPMENT
85 ROCKY WATERHOLE RD, MT FROME, NSW 2850
COMBINED SERVICES

DRAWING
COMBINED SERVICES LAYOUT
INFRASTRUCTURE SITE PLAN

DRAWING IS INTENDED TO CAPTURE THE SCOPE ONLY AND IS NOT TO REPLACE WORKSHOP DRAWINGS. WORKSHOP DRAWINGS SHALL BE PRODUCED BY THE TRADE FROM WHICH FINAL COORDINATION AND CONSTRUCTION ACTIVITIES SHALL OCCUR. VERIFY DIMENSIONS AND LEVELS ON SITE BEFORE SETTING OUT. DO NOT SCALE FROM DRAWING. REFER TO FIGURED DIMENSIONS - IN mm UNLESS OTHERWISE STATED.			
Scale	Drawn: AES/ZS/YP	No. in Set	Date
1:2000	Design: AES/ZS/YP	1 of 2	JUN 2025
	Review: HA		
Orig. Size	Drawing no.	Revision	
A1	LCE103462-CS100	C5	

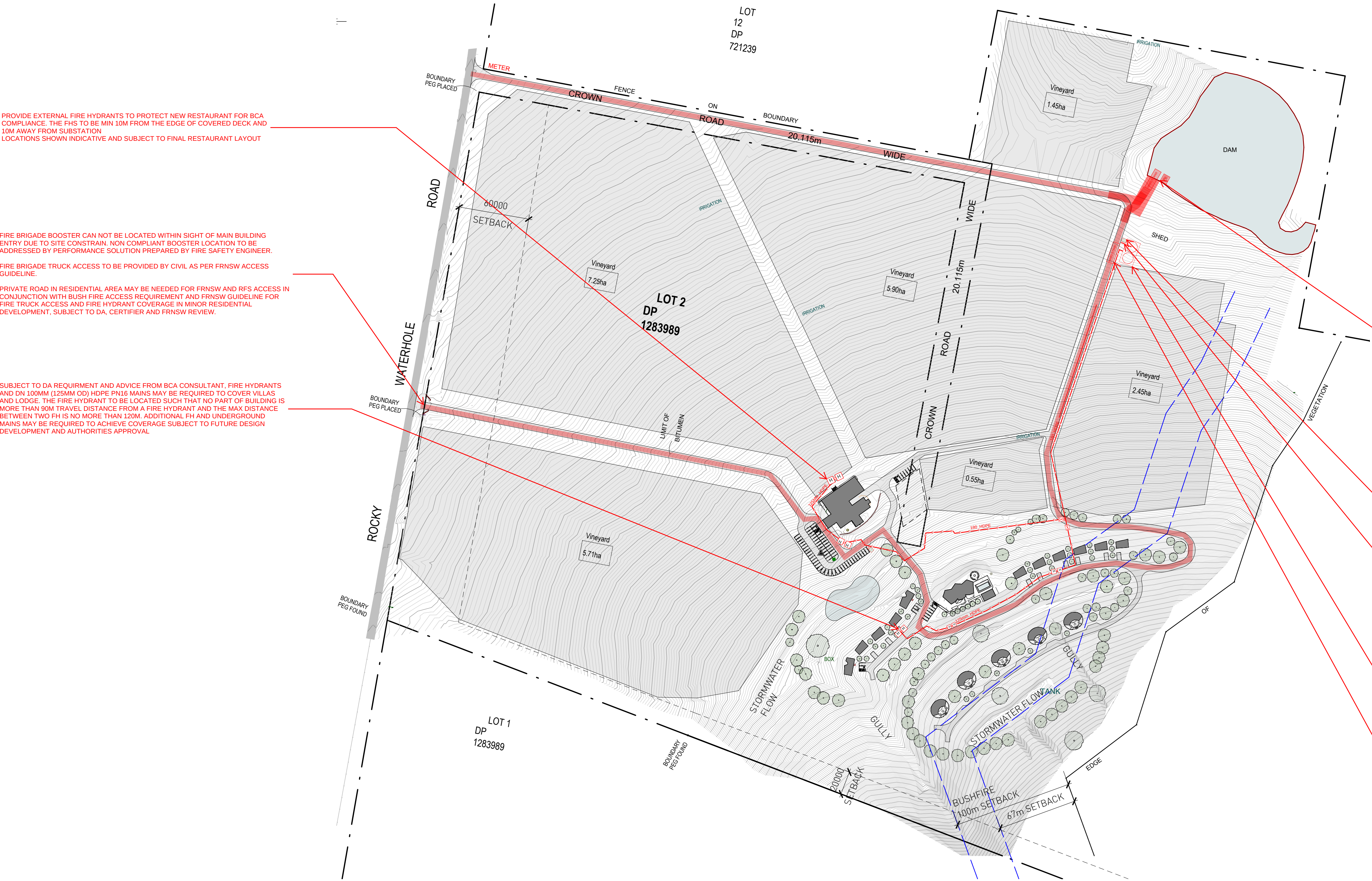
PROVIDE EXTERNAL FIRE HYDRANTS TO PROTECT NEW RESTAURANT FOR BCA COMPLIANCE. THE FHS TO BE MIN 10M FROM THE EDGE OF COVERED DECK AND 10M AWAY FROM SUBSTATION LOCATIONS SHOWN INDICATIVE AND SUBJECT TO FINAL RESTAURANT LAYOUT

FIRE BRIGADE BOOSTER CAN NOT BE LOCATED WITHIN SIGHT OF MAIN BUILDING ENTRY DUE TO SITE CONSTRAIN. NON COMPLIANT BOOSTER LOCATION TO BE ADDRESSED BY PERFORMANCE SOLUTION PREPARED BY FIRE SAFETY ENGINEER.

FIRE BRIGADE TRUCK ACCESS TO BE PROVIDED BY CIVIL AS PER FRNSW ACCESS GUIDELINE.

PRIVATE ROAD IN RESIDENTIAL AREA MAY BE NEEDED FOR FRNSW AND RFS ACCESS IN CONJUNCTION WITH BUSH FIRE ACCESS REQUIREMENT AND FRNSW GUIDELINE FOR FIRE TRUCK ACCESS AND FIRE HYDRANT COVERAGE IN MINOR RESIDENTIAL DEVELOPMENT, SUBJECT TO DA, CERTIFIER AND FRNSW REVIEW.

SUBJECT TO DA REQUIRMENT AND ADVICE FROM BCA CONSULTANT, FIRE HYDRANTS AND DN 100MM (125MM OD) HDPE PN16 MAINS MAY BE REQUIRED TO COVER VILLAS AND LODGE. THE FIRE HYDRANT TO BE LOCATED SUCH THAT NO PART OF BUILDING IS MORE THAN 90M TRAVEL DISTANCE FROM A FIRE HYDRANT AND THE MAX DISTANCE BETWEEN TWO FH IS NO MORE THAN 120M. ADDITIONAL FH AND UNDERGROUND MAINS MAY BE REQUIRED TO ACHIEVE COVERAGE SUBJECT TO FUTURE DESIGN DEVELOPMENT AND AUTHORITIES APPROVAL



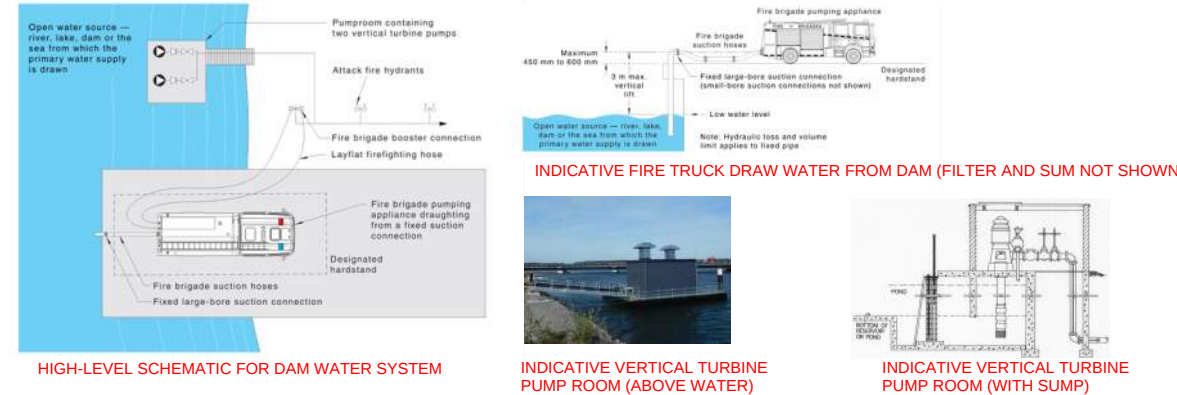
ALTERNATIVE FIRE SERVICES WATER SUPPLY ARRANGEMENT

SUBJECT TO WATER RESOURCE/ENVIRONMENT ENGINEER REVIEW & REPORT OF DAM WATER'S WATER QUALITY AS PER AS2419.1 CL4.1.3, ADEQUACY AS PER CL 4.1.2, LOWEST USABLE WATER LEVEL AROUND THE YEAR AS PER 4.4, THE MAX REQUIRED WATER VERTICAL LIFTING AS PER CL4.4 AND FRNSW APPROVAL IN PBOB PROCESS BY A FIRE SAFETY ENGINEER, THE DAM WATER MAY BE USED AS PRIMARY WATER RESOURCE OF THE FIRE HYDRANT SYSTEM AND THE TANKS MAY NOT BE REQUIRED.

UNDER THIS OPTION, A U-TURN BAY TO FRNSW ACCESS GUIDELINE REQUIREMENT MUST BE PROVIDED BY CIVIL. THE HARDSTAND MAY NEED TO BE AWAY FROM BAND AND EXTENDED TO ABOVE DAM TO AVOID MUD, SLIT OR THE LIKE, WHICH TO BE ADVISED BY WATER RESOURCE, CIVIL AND STRUCTURE ENGINEER.

TWO VERTICAL TURBINE FIRE PUMP AND ASSOCIATED ENCLOSURE TO BE PROVIDED. THE PUMP DETAIL TO BE SPECIFIED BY PUMP SUPPLIER AS PER PUMP MANUFACTURER REQUIREMENTS.

REFER TO BELOW FOR POTENTIAL ARRANGEMENT



THE 3M X 4M CONTAINERISED DIESEL FIRE PUMP SET CONTAINS TWO DIESEL PUMPS AND A PRESSURE MAINTENANCE PUMP. THE MINIMUM PUMP DUTY MUST ALLOW ACHIEVING AT LEAST 30L/S AT 700KPA AT THE FURTHEST FIRE HYDRANT. THE EXACT DUTY WILL BE DETERMINED DURING THE FUTURE DESIGN PHASE AND WILL NEED TO CONSIDER THE ELEVATION DIFFERENCES BETWEEN FIRE HYDRANTS AND PUMPS, ENSURING THAT THE PRESSURE AT THE CLOSEST FIRE HYDRANT DOES NOT EXCEED 1200 KPA

THE FIRE HYDRANT BOOSTER ASSEMBLY TO INCORPORATE LARGE BORE AND SMALL BORE SUCTION AND FEED FIRE HYDRANT. THE BOOSTER TO BE POSITIONED NEAR THE TANKS AND NEXT TO THE ROAD FOR FIRE BRIGADE ACCESS. THE BOOSTER OUTLET SHOULD BE ORIENTATED SUCH THAT THE ANGLE BETWEEN THE OUTLET AND THE FIRE TRUCK'S REAR SUCTION INLET IS LESS THAN 45 DEGREES.

A HARDSTAND AREA OF AT LEAST 6M X 18M TO BE PROVIDED NEXT TO THE BOOSTER TO ALLOW FIRE TRUCKS TO CONNECT TO THE TANK'S LARGE BORE SUCTION.

TWO 144-KILOLITER (MINIMUM 288 KILOLITERS TOTAL) FULL CAPACITY FIRE HYDRANT TANKS ARE REQUIRED TO PROVIDE A 4-HOUR FIRE HYDRANT WATER SUPPLY. EACH TANK SHALL BE A CIRCULAR TANK WITH A 9-METER DIAMETER AND A 3-METER HEIGHT. ALLOW FOR THE TANK PLINTH TO EXTEND 1 METER ON EITHER SIDE OF EACH TANK, AND PROVIDE A MINIMUM CLEARANCE OF 1 METER BETWEEN TANKS.

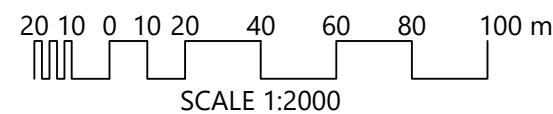
INITIAL WATER INFILL TO BE SUPPLIED FROM DAM WATER. AUTOMATIC MAKE UP FOR EVAPORATION TO BE FROM HYDRAULIC OR IRRIGATION WATER. TOTAL WATER VOLUME SHALL BE CAPABLE TO BE 50% REFILLED WITHIN 24HRS.

A HARDSTAND AREA OF AT LEAST 6M X 18M TO BE PROVIDED NEXT TO THE BOOSTER TO ALLOW FIRE TRUCKS TO CONNECT TO THE TANK'S LARGE BORE SUCTION.

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