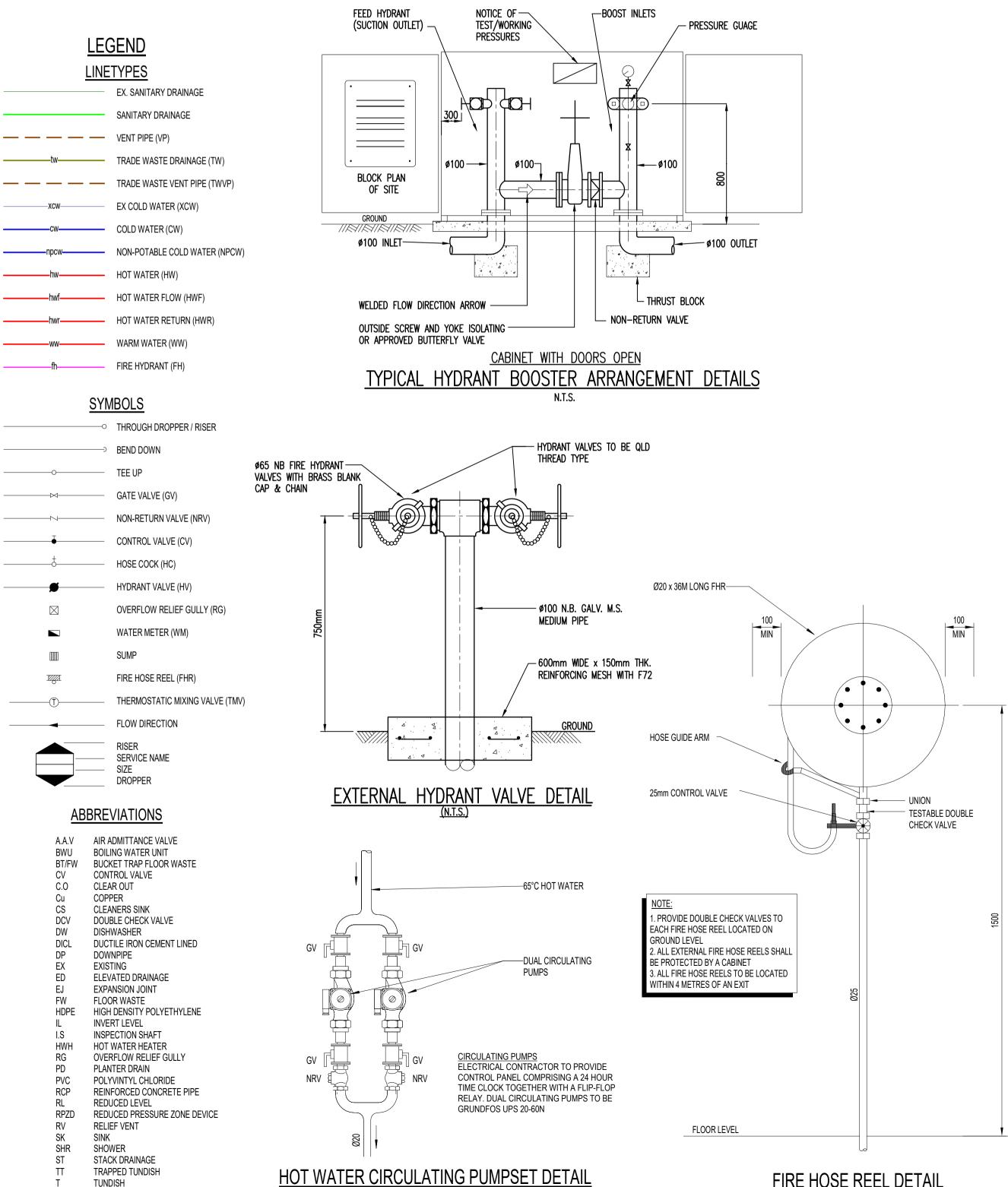
# **MULTIPURPOSE + EVACUATION CENTRE RICHMOND PARK, TUMUT NSW**

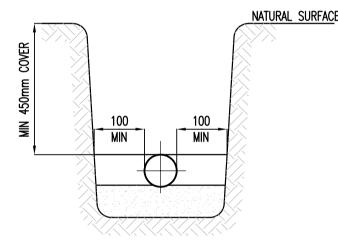


<u>N.T.S</u>

TUNDISH TWVP TRADE WASTE VENT PIPE

# 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	



## MINIMUM TRENCH WIDTH

5.

6

# HYDRANT SERVICES NOTES:

1 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 INCLUDING100MM 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 COATING 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 UNDFRGROUND
- L. PIPE MARKING SHALL BE IN ACCORDANCE WITH AS 2419.1
- 2 HYDRANTS: SUPPLY AND INSTALL LANDING 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.
- RECORD PRESSURE AND FLOW RESULTS AND ADVISE IN WRITING TO THE SUPERINTENDENT 4 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
- 5 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.
- 6 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.
- 7 ALL WORKS TO BE INSTALLED IN ACCORDANCE WITH LOCAL AUTHORITIES REQUIREMENTS AS3500 NATIONAL PLUMBING & DRAINAGE CODE & AS 2419.1 FIRE HYDRANT INSTALLATIONS
- 8 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 OCCURING 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 PIPEWORK TO BE PROVIDED WITH CONCRETE 20 MPg THRUST BLOCKS DESIGNED IN ACCORDANCE WITH AS3500 "ANCHORAGE BELOW GROUND"
- 2 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

IS TO ALLOW FOR ALL MIXING/TEMPERING VALVES WHERE REQUIRED.

CONFLICT EXISTS NOTIFY BUILDER IMMEDIATELY.

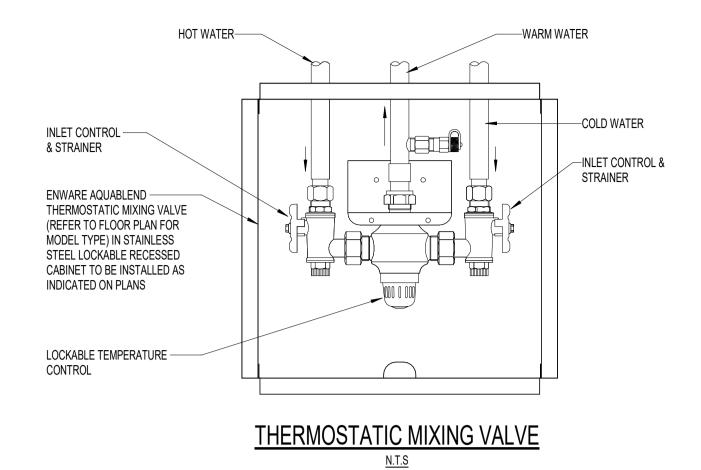
SUMPS, MANHOLES, PITS, ETC.

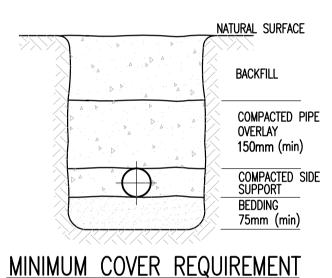
TRENCHES TO MINIMISE SETTLEMENT.

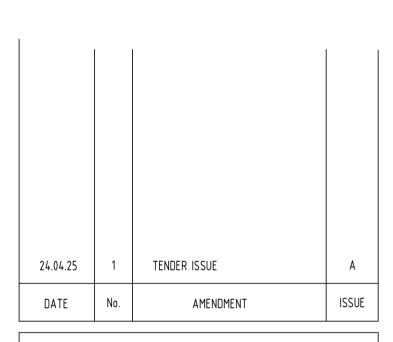
MATERIAL OR FINE CRUSHED ROCK.

BUILDING STRUCTURE.

- AND PLUG WASTES.
- ALLOW TO CUT & REMOVE EX CONCRETE & ROAD SURFACES WHERE REQUIRED & MAKE GOOD THE SURFACE UPON 13. COMPLETION
- 15. INSPECTION OPENINGS SHALL BE PROVIDED AT: - THE PROPERTY BOUNDARY
- ON EACH WC OR BRANCH
- AT MAX. 30m INTERVALS SPREAD EQUIDISTANT WHERE POSSIBLE - IMMEDIATELY UPSTREAM & DOWNSTREAM OF ALL JUMP-UPS
- AS REQUIRED BY THE AUTHORITY FOR INSPECTION & MAINTENANCE
- RELEVANT AUTHORITY. LOCATION & NUMBERS ARE TO BE VERIFIED ON SITE.
- KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AREAS & ROAD PAVEMENTS.
- THE PLUMBING CONTRACTOR SHALL OBTAIN ALL AUTHORITY APPROVALS AND PAY ALL FEES
- DRAWINGS FOR FINISHES
- 22. APPLICABLE.
- 23.
- ARE TO BE USED.







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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PROJECT MULTIPURPOSE + EVACUATION CENTRE **RICHMOND PARK** TUMUT NSW

CLIENT



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

## HYDRAULIC SERVICES NOTES

ALL WORKS TO BE INSTALLED IN ACCORDANCE WITH LOCAL COUNCIL & AUTHORITY REQUIREMENTS, AS3500 NATIONAL PLUMBING & DRAINAGE CODE, AS2419.1-2021 & AS2441-2005 THE CONTRACTOR IS TO CONFIRM LOCATION & DEPTH OF EXISTING SERVICES ON SITE PRIOR TO CONSTRUCTION. IF ANY

THE CONTRACTOR IS TO CONFIRM EXISTING & PROPOSED SURFACE LEVELS PRIOR TO INSTALLATION OF PIPEWORK,

ALL PIPEWORK WHICH IS TO BE FIXED IN CEILING SPACE, ON WALLS OR SUSPENDED UNDER FLOORS SHALL BE SUPPORTED WITH 'UNISTRUT' BRACKETING SYSTEM OR EQUAL. PIPEWORK IS NOT TO BE FIXED IN DIRECT CONTACT WITH

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

BACKFILL MATERIAL GENERAL FILL WITH NO STONES GREATER THAN 25mm OCCURING WITHIN 150mm OF THE SERVICE UNDER ROADS AND PAVED AREAS AND WITHIN 4 METRES OF BUILDING: COARSE SAND, CONTROLLED LOW STRENGTH

HOT & COLD WATER RETICULATION PIPEWORK TO BE COPPER TUBE TABLE B TO AS 1432

ALL INGROUND COPPER RETICULATION PIPEWORK TO BE FITTED WITH POLYETHYLENE JACKET PRIOR TO INSTALLATION HOT WATER TEMPERATURE TO ALL ABLUTION FIXTURES TO BE MAX 50°C (43°C TO DISABLED FIXTURES) THE CONTRACTOR ALL HOSE COCKS TO BE PROVIDED WITH VACUUM BREAK VALVES EQUAL TO WATTS/RMC HCVB (AQUAGUARD)

EXPOSED PIPEWORK IN AMENITIES TO BE CHROME PLATED COPPER TUBE INCLUDING HOT & COLD WATER, WASTE PIPES INSULATION FOR HOT WATER FLOW & RETURN PIPEWORK TO BE THERMOTEC 4-ZERO WITH 25mm WALL THICKNESS WITH SISALATION 450, NEATLY FITTED, SHEATHED WITH THE INSULATION MADE CONTINUOUS AT FITTINGS

14. BRASS PLATE IDENTIFICATION MARKERS (SCREWS FIXED) ARE TO BE PROVIDED TO ALL SERVICES INDICATING THE TYPE OF SERVICE, SIZE OF THE PIPE AND THE DEPTH OF THE INSTALLATION, LOCATE MARKERS AT THE BEGINNING OF THE SERVICE AT 15m INTERVALS, AT CORNERS AND AT THE TERMINATE POINT OF THE SERVICE AS IT ENTERS THE BUILDING

EXISTING SERVICES HAVE BEEN PLOTTED FROM SUPPLIED DATA, GLENN HAIG & PARTNERS & THE SUPERINTENDANT DOES NOT GUARENTEE THEIR ACCURACY & IT IS THE PLUMBING CONTRACTORS RESPONSIBILITY TO ESTABLISH THE LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF ANY WORK. CLEARANCES SHALL BE OBTAINED FROM THE

ON COMPLETION OF PIPE INSTALLATION, ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL CONDITION INCLUDING: CARE SHALL BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. EXCAVATE BY HAND IN THESE AREAS.

INVERT LEVELS SHOWN ARE INDICATIVE ONLY. CONFIRM ALL LEVELS ON SITE BEFORE COMMENCING CONSTRUCTION. ACCESS PANEL ARE TO BE INSTALLED WHERE REQUIRED TO ACCESS CONTROL VALVES IN WATER LINES AS REQUIRED & INSPECTION OPENINGS ON SEWER RISERS. ACCESS PANELS SHALL MATCH PROPOSED FINISH. REFER TO ARCHITECTURAL

ALLOW TO PROVIDE EXPANSION BELLOWS/BENDS/LOOPS AS APPLICABLE TO EACH WATER, GAS & FIRE SERVICE AT SLAB EXPANSION JOINTS. ALLOW FOR 50mm LATERAL EXPANSION BETWEEN JOINTS ALONG WITH TEMPERATURE CHANGE AS

ALL ROUGH-IN PIPESIZING NOMINATED IS BASED ON COPPER PIPE TABLE AND INTERNAL BORE MEASUREMENTS. WHERE Pe-X (B) PIPEWORK IS INSTALLED, IT SHALL BE OVERSIZED TO MATCH THE CORRECT COPPER SIZING TABLES TRADE WASTE PIPEWORK NOTED AS HDPE IS TO BE HIGH DENSITY POLYETHYLENE (HDPE), MANUFACTURED BY C.O.E.S, SUPPLIED BY C.O.E.S. AND ALL PIPES AND FITTINGS MUST CARRY THE APPROVALS FROM ITALY, GERMANY, SWITZERLAND BELGIUM, HOLLAND, AUSTRIA AND DENMARK. AUSTRALIAN STANDARDS MARK IS AVAILABLE FOR THESE PRODUCTS TO BE USED FOR SWV-SEW, TRADEWASTE, GREASY WASTE. ALL HDPE PIPEWORK & FITTING JOINTS ARE TO BE BUTT WELDED OR FUSED, UTILISING APPROVED BUTT FUSION WELDING EQUIPMENT UNDER FACTORY CONTROLLED CONDITIONS. ALL SITE WELDS MAY BE EITHER BUTT FUSION UTILISING APPROVED BUTT FUSION WELDING EQUIPMENT OR ELECTRO FUSION SLEEVES INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS DIRECTION. NO OTHER JOINTING METHODS