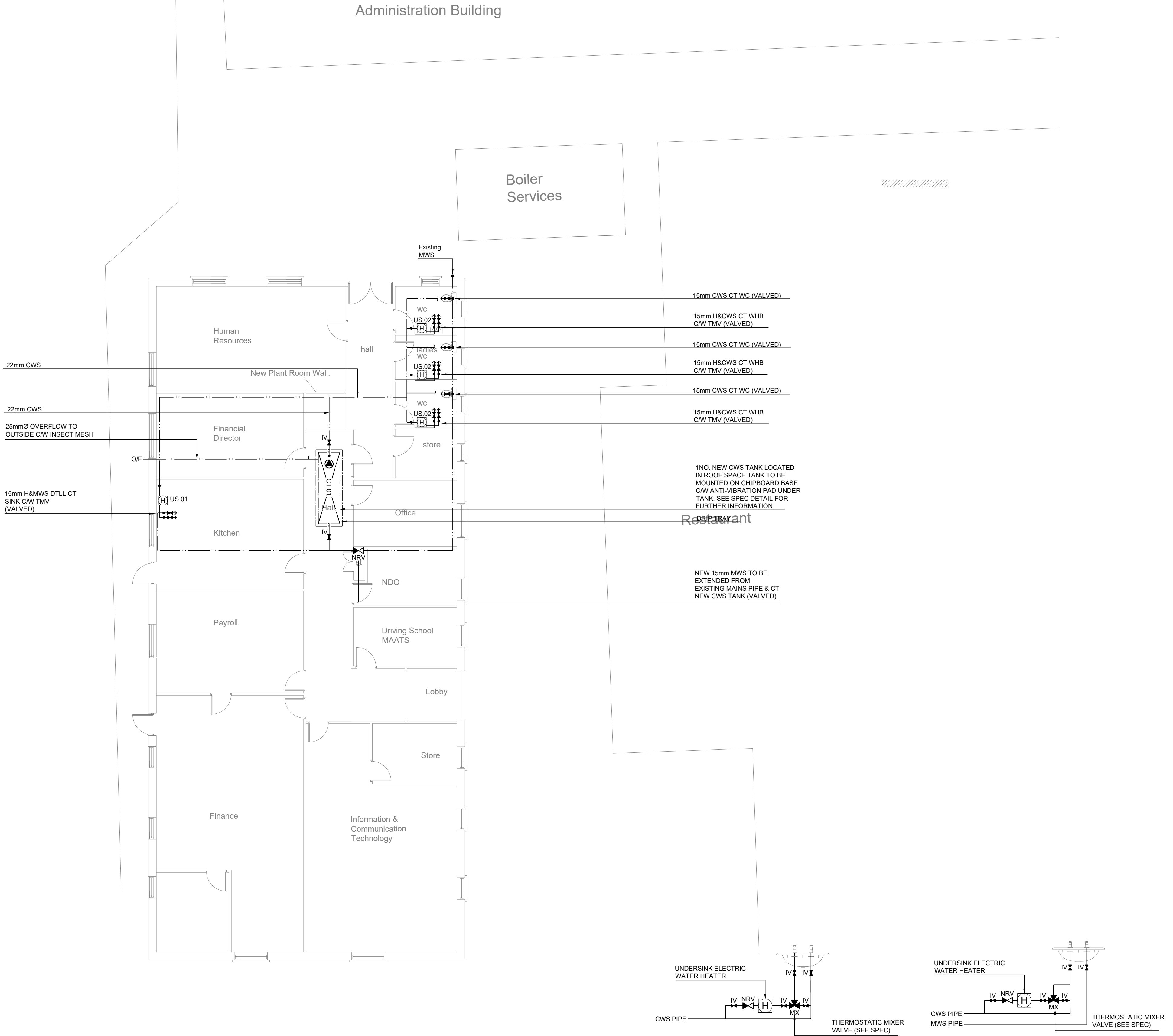
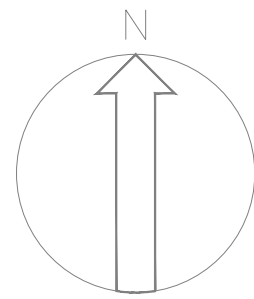




- Note:
- This drawing shows the "approximate" location of the MWS to the building. Contractor to survey same as part of tender process.
 - The entire existing hot and cold water supply is to be isolated, drained, cutback and removed from site, including all visible pipework, valves & insulation. Pipework below floor level can remain on site.
 - Hot water supply to sinks to be provided by undersink water heaters connected to existing cold water service pipework as per drawing below.

SPECIFICATION OF UNDERGROUND PRE-INSULATED PEX PIPEWORK FOR HEATING SERVICES

MAKE: CALPEX (POLYTHERM HEATING SYSTEMS LTD)
TYPE: CAPLEX UNO HEATING

1. BONDED SYSTEM

REQUIREMENTS: FACTORY INSULATED, FLEXIBLE PIPE SYSTEMS
ACCORDING EN 15632-1/2
FIRE BEHAVIOUR: BUILDING MATERIAL CLASS B2 (NORMALLY INFLAMMABLE) ACCORDING TO DIN 4102

2. CARRIER PIPE

MATERIALS BASIC MATERIAL: HIGH-DENSITY POLYETHYLENE (PE-HD), PEROXIDE CROSS-LINKED (PEXA), COLOUR: NATURAL
BONDING AGENT PE-MODIFIED, HEAT-STABILIZED, COLOUR: RED (HEATING), SILVER (SANITARY)
OXYGEN BARRIER LAYER ETHYLENE / VINYL ALCOHOL (EVOH), HEAT-STABILIZED, COLOUR: NATURAL
REQUIREMENTS AS PER DIN 16892 / DIN 16893 AND E DIN EN 12318-2, PIPES IN SERIES 3.2 AS PER DVGW WORKSHEET W 544
IMPERMEABILITY TO OXYGEN AS PER DIN 4729 AT 40 °C, OXYGEN PERMEABILITY BASED ON THE INTERIOR PIPE VOLUME AS PER DIN 4726 FROM 0.10 G / (M3 X D)
PIPE SERIES DIN 16892 SERIES S (SDR 11): FOR HEATING (WITH EVOH BARRIER) SERIES 3.2 (SDR 7.4): FOR SANITARY (WITH EVOH BARRIER)
LONG-TERM BEHAVIOUR ACCORDING TO DIN 16892/93
PROPERTIES UNAFFECTED BY AGGRESSIVE WATER, LOW PRESSURE LOSSES, VERY GOOD CHEMICAL AND MECHANICAL RESISTANCE

INSULATION:

1. THERMAL INSULATION

MATERIALS: **CALPEX HEATING**
CFC-FREE, CYCLOPENTANE-BLOWN POLYURETHANE FOAM (PUR)
CALPEX SANITARY
CFC-FREE, 100 % CO₂-BLOWN POLYURETHANE FOAM (PUR)

CASING
MATERIAL: LOW DENSITY POLYETHYLENE, LDD-PE SEAMLESS
EXTRUDED
TASK: PROTECTION AGAINST MECHANICAL INFLUENCE OR MOISTURE
DENSITY: 918-922 KG/M³
THERMAL CONDUCTIVITY: 0.33W/MK
CRYSTALLIKTE MELTING RANGE: 122°C

NOTE: "HOUSE ENTRY" BENDS TO BE PROVIDED AT POINTS OF ENTRY AND EXIT FROM PLANTROOMS

ALL NECESSARY FITTINGS TO ENABLE TRANSITION FROM GB STEEL TO PEX PIPEWORK AND VICE VERSA TO BE INCLUDED FOR AS REQUIRED TO SUIT PIPEWORK SIZE AND BASED ON SCREWED CONNECTIONS

SPECIFICATION OF THERMOSTATIC MIXER VALVES

HORNE H15-11B 1/2" THERMOSTATIC MIXING VALVE (TMV3 COMPLIANT)
VALVE TO INCLUDE:
CHECK VALVE FLOW REGULATOR FULL BORE STRAINERS (REMOVABLE FOR CLEANING WITHOUT BREAKING ANY PIPE CONNECTIONS) SWIVEL INLET CONNECTIONS, COMPRESSION FITTING FOR 15mm COPPER PIPE IN BRONZE FINISH.
VALVES TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND COMMISSIONED IN ACCORDANCE WITH WATER REGULATIONS (BS6700:1997) AND BYLAWS USING TO HORNE 15mm FLUSHING KIT
SUPPLIER: FORDE HYDROSERVE IRELAND

SPECIFICATION FOR COLD WATER TANK

REF: CT.01
MAKE: EPS
MODEL: MULTIBOOST RECTANGULAR 270L FIXED SPEED TANK TO BE COMPLETE WITH DRIP TRAY & FULL INSULATION JACKET

SCHEDULE OF UNDERSINK WATER HEATERS (ARISTON)

REF	SPECIFICATION
USH.01	15 LITRES UNDERSINK ELEC WATER HEATER ANDRIS LUX 150 CW KIT A EXPANSION & NON RETURN VALVE POWER 3KW @ 240V CE APPROVED
USH.02	6 LITRES UNDERSINK ELEC WATER HEATER ANDRIS LUX 6U CW KIT A EXPANSION & NON RETURN VALVE POWER 1.5KW @ 240V CE APPROVED

A

TYPICAL DETAIL

WATER CONNECTIONS TO WHBS

Copyright: ©

No part of this document may be re-produced or transmitted in any form or stored in any retrieval system of any nature without the written permission of the consultant as copyright holder excepts as agreed for use on the project for which the document was originally written.

General notes:

This drawing to be read in conjunction with all relevant architectural drawings and specifications.

This drawing to be read in conjunction with all relevant structural drawings and specifications.

This drawing to be read in conjunction with all relevant mechanical and electrical drawings and specifications.

All dimensions in millimeters, do not scale from this drawing, only use figured dimensions only.

Contractor must verify all dimensions on site prior to installation of services and production of working drawings.

Standard notes:

- Any exposed water services pipework to be completed in chrome plated copper & fixings. (no exceptions)
- Mechanical contractor to include for all final pipe connections to all sanitary fittings / fixtures including all final flexible hose connections and fittings as required to leave the installation complete.
- All wash hand basins & sinks to be completed with thermostatic mixing valves & isolation valves.
- All low level pipe runs to be boxed out as per existing installation.
- Contractor to visit existing site to survey existing building services and familiarise themselves with the existing installation & to ensure they include for all necessary work, temporary works to complete the project. no additional costs will be entertained for any item that could have been determined by a detailed site visit and inspection.

SYMBOL	DESCRIPTION
---	PIPEWORK IN FLOOR VOID
---	PIPEWORK AT LOW LEVEL
---	PIPEWORK AT HIGH LEVEL
---	PIPEWORK IN CEILING VOID
IV	ISOLATING VALVE
NRV	NON RETURN VALVE
⊕	6 LITRE SFFF FOAM FIRE EXTINGUISHER (SYNTHETIC FLUORINE FREE FOAM)
⊕	2 LITRE CARBON DIOXIDE (CO2) FIRE EXTINGUISHER
AFFL	ABOVE FINISHED FLOOR LEVEL
DTLL	DOWN TO LOW LEVEL
RTHL	RISE TO HIGH LEVEL
RIFD	RUN IN FLOOR DUCT/VOID
TA	TO ABOVE
TB	TO BELOW
FA	FROM ABOVE
FB	FROM BELOW
TMV	THERMOSTATIC MIXING VALVE
CT	CONNECT TO
OF	OVER FLOW
DC	DRAIN COCK

C01	Issued for Tender	06/08/2026
Rev	Description	Date



Client: Irish Wheelchair Association

Architect:

Project: IWA Finance Building, Clontarf, Dublin 3

Drawing: Mechanical Installation Water Services

MFC Project Reference	26.3176	Scale	1:100 A1
Drawn	SOH	Checked	JD
Approved	JM	Status: Rev:	
26.3176-MFC-XX-00-DR-M-5300 (A4) (C01)			