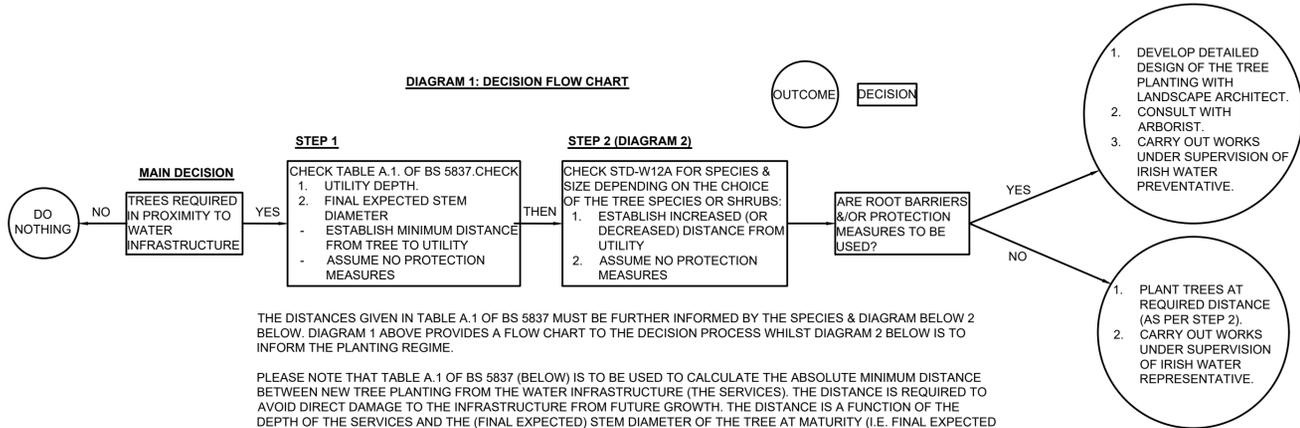


DIAGRAM 1: DECISION FLOW CHART



THE DISTANCES GIVEN IN TABLE A.1 OF BS 5837 MUST BE FURTHER INFORMED BY THE SPECIES & DIAGRAM BELOW 2 BELOW. DIAGRAM 1 ABOVE PROVIDES A FLOW CHART TO THE DECISION PROCESS WHILST DIAGRAM 2 BELOW IS TO INFORM THE PLANTING REGIME.

PLEASE NOTE THAT TABLE A.1 OF BS 5837 (BELOW) IS TO BE USED TO CALCULATE THE ABSOLUTE MINIMUM DISTANCE BETWEEN NEW TREE PLANTING FROM THE WATER INFRASTRUCTURE (THE SERVICES). THE DISTANCE IS REQUIRED TO AVOID DIRECT DAMAGE TO THE INFRASTRUCTURE FROM FUTURE GROWTH. THE DISTANCE IS A FUNCTION OF THE DEPTH OF THE SERVICES AND THE (FINAL EXPECTED) STEM DIAMETER OF THE TREE AT MATURITY (I.E. FINAL EXPECTED GROWTH).

TABLE A.1 BS 5837	MINIMUM DISTANCE BETWEEN YOUNG TREES OR NEW PLANTING & STRUCTURES, IN METRES (m)		
	FINAL STEM DIA. < 300mm	FINAL STEM DIA. 300mm TO 600mm	FINAL STEM DIA. > 600mm
SERVICES			
< 1m DEEP	0.5	1.5	3.0
> 1m DEEP	—	1.0	2.0

THUS FOR EXAMPLE:

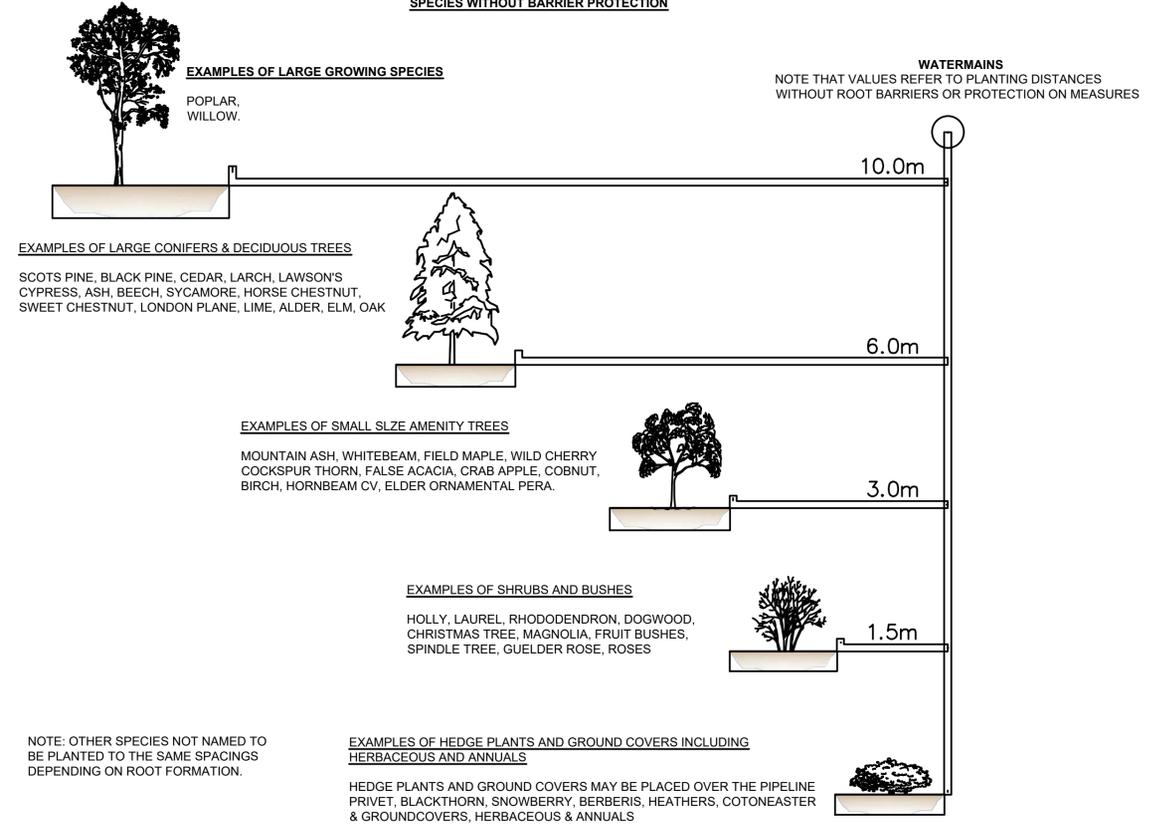
- FOR SERVICE LESS THAN 1 METRE DEEP, THE MINIMUM DISTANCE IS TO BE 1.5m FOR A TREE BETWEEN 300 AND 600mm STEM DIAMETER AT MATURITY.
- FOR A SERVICE GREATER THAN 1 METRE DEEP, THE MINIMUM DISTANCE IS TO BE 1.0m FOR A TREE BETWEEN 300 AND 600mm STEM DIAMETER AT MATURITY.

NOTE: RESTRICTIONS RELATE TO INFRASTRUCTURE WITHOUT ROOT INTRUSION PROTECTION.

THE DESIGN OF LANDSCAPING SHALL BE UNDERTAKEN IN CONJUNCTION WITH THE DESIGN OF WATER INFRASTRUCTURE, ETC. THE TREE/BUSH/SHRUB SHALL NOT BE LOCATED CLOSER TO THE WATER INFRASTRUCTURE THAN INDICATED ABOVE, EXCEPT WHERE SPECIAL PROTECTION MEASURES ARE APPROVED. WHERE THERE IS A RISK OF TREE/ROOT INTRUSION, THE WATER INFRASTRUCTURE SHALL BE RESISTANT TO TREE ROOT INGRESS (E.G. BY USE OF APPROPRIATE BARRIERS, HIGH PERFORMANCE JOINTS, OR BY USE OF POLYETHYLENE WITH WELDED JOINTS). THE LANDSCAPING DESIGN AND DETAILS OF THE SPECIAL PROTECTION MEASURES MUST BE AGREED WITH IRISH WATER. A TREE SHALL NOT BE PLANTED DIRECTLY OVER WATER INFRASTRUCTURE WHERE EXCAVATION OF THE INFRASTRUCTURE WOULD REQUIRE REMOVAL OF THE TREE UNLESS SUCH PLANTING IS AGREED WITH IRISH WATER AND IN GENERAL ONLY SHALLOW ROOTING SHRUBS SHALL BE PLANTED CLOSE TO WATER INFRASTRUCTURE.

PLEASE ENSURE THAT THESE DISTANCES ARE ADHERED TO IN ORDER TO PROTECT THE TREES FROM ANY FUTURE MAINTENANCE. REFERENCE SHOULD ALSO BE MADE TO BS 5837, BS 8545 AND THE NJUG GUIDELINES VOLUME 4 FOR FURTHER INFORMATION.

DIAGRAM 2: PLANTING DISTANCES FOR DIFFERENT SPECIES WITHOUT BARRIER PROTECTION



WATERMAINS
NOTE THAT VALUES REFER TO PLANTING DISTANCES WITHOUT ROOT BARRIERS OR PROTECTION ON MEASURES

NOTE: OTHER SPECIES NOT NAMED TO BE PLANTED TO THE SAME SPACINGS DEPENDING ON ROOT FORMATION.

EXAMPLES OF HEDGE PLANTS AND GROUND COVERS INCLUDING HERBACEOUS AND ANNUALS

HEDGE PLANTS AND GROUND COVERS MAY BE PLACED OVER THE PIPELINE PRIVET, BLACKTHORN, SNOWBERRY, BERBERIS, HEATHERS, COTONEASTER & GROUNDCOVERS, HERBACEOUS & ANNUALS

STD-W-12A RESTRICTIONS ON NEW TREES / SHRUBS PLANTING ADJACENT TO WATER MAINS

NTS

Notes:
For setting out refer to Architect's drawings.
This drawing shall be read in conjunction with all other Architectural and Engineering drawings and all other relevant drawings and Specifications.
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PO1	EK	JdP	ISSUED FOR INFORMATION	17/10/2025
Rev	Dm	Chkd	Amendments	Date

Rev	Dm	Chkd	Amendments	Date
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Rev	Dm	Chkd	Amendments	Date
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Drawing Sheet Size	A1
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FOR PLANNING

Architect	DONNELLY TURPIN ARCHITECTS		
Project	MIXED USE DEVELOPMENT BELGARD SQ. EAST, BELGARD RD, TALLAGHT		
Title	WATERMAIN DETAILS SHEET 03 OF 05		
Drg No	S058-TCE-B1-ZZ-DR-S-S-623	Revision	P01
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TORQUE
CONSULTING ENGINEERS
CIVIL & STRUCTURAL

Unit K26,
Drinan Enterprise Centre,
Swords Enterprise Park,
Swords,
K67 E722
Ireland

T: +353 (0)1 4853933
E: contactus@tce.ie
W: www.tce.ie