OUTLINE SPECIFICATION NOTES FOR PLANTING BED SOIL SYSTEMS FOR PLANTING PIT/TRENCH

General Notes: All landscape works to be undertaken by a suitably qualified and experienced landscape contractor.

Additional Information: These drawings are to be read in conjunction with the following documents:

- Scheme Design Drawings
- Utility Service Providers Drawings & Existing Surveys (Topographical & GPR)

Existing Services

Due to the nature of this project there may be various services and utilities located in each proposed planting pit/trench. These services are **LIVE** and of various diameter, depth and composition. The potential utilities located in each planting pit/trench are generally, but not limited to the following services;

- Telecommunications / Eir/ Virgin Media
- Drainage (Foul and Surface Water)
- Public lighting / ESB / Electrical
- Gas

1. All existing services are to be uncovered, completely exposed and identified prior to bulk excavation by machine. All existing services are to be protected during excavation and installation of the planting pit/trench structure and backfill soils. Temporary support to exposed ductwork/installations for the duration of the pit/trench construction is to be provided as per Engineer's requirements.
2. The geotextile lining the planting pit/trench will require to be carefully cut to allow the services to penetrate into the pit/trench. This opening in the geotextile should be no more than 50mm wider than the diameter of the duct. Cable ties should be used to ensure the opening is closed off and sealed.
3. Services running through the pit should be wrapped in a root barrier root barrier (ReRoot 2000 2mm by greenleaftrees.co.uk or equivalent approved). This root barrier should be secured to the ductwork with suitable cable ties. Where applicable and where it is possible, multiple ducts should be wrapped together to prevent ducts becoming pushed apart.
4. The backfill material/growing medium(soil) should be carefully placed around the ducting by hand, in unison with backfilling the pit/trench.
5. A photographic record of the services should be documented and presented to the Landscape Architect upon completion of the pit/trench.
6. Any damage to existing services or utilities should be notified immediately to the Employers representative.
7. Services located within the working space adjacent to the planting pit should be reinstated as per typical detail indicated above. For specific installation of various services and diameters of ducting inc. backfill requirements please refer to Scheme Design drawings and specifications.
8. Where existing services are located within the 260mm drainage layer of the proposed planting pit/trench, C12/15 concrete bed and surround will be required to cover the duct to a minimum thickness of 100mm.
9. The Contractors attention is drawn to the existing Site Survey Information.

PLANTING PIT/TRENCH REQUIREMENTS

Contractor Requirements: The contractor is required to give the Employer's Representative **ONE WEEK/FIVE WORKING DAYS** written notice of planting pit/trench construction/installation and planting, in order to allow the Project Landscape Architect to be in attendance on site.

Furthermore, the contractor is required to produce and retain for inspection by the Employer's Representative delivery dockets for the supply of materials associated with these planting pits' construction. Each docket will clearly set out the quantities delivered and the source or supplier of the material.

Operations/Construction stages which require observation/inspection from the Project Landscape Architect are the following;

- Pit excavation
- Installation of drainage layer & pipe-work
- Works to existing services & utilities
- Installation of proposed kerbs
- Growing medium backfilling
- Planting including initial watering

A photographic record will be required to be produced by the Contractor for each stage of the trench and planting pit construction. A digital copy of this will be required to be issued to the Employer's Representative within one week of the pit/trench completion.

In the event that adequate notice is not given or works are carried out without inspection the Client reserves the right to have the works opened up with any cost attributed to the contractor.

NOTES ON INSTALLATION

Planting Pit/Trench Construction

1. Site Preparation;
   1.1 Existing Paving slabs to be lifted and removed off site.
2. Excavate pit/trench to required dimensions. Contractor to allow sufficient working space to perimeter of planting pit/trench structure and that sufficient space is allowed to install plants. Contractor to allow for hand excavation around existing services.
3. All existing services to be uncovered prior to excavation by machine. Existing services to be fully protected during excavation. Temporary support to be provided as per Engineer's requirements.
4. Sub-base to be left level after excavation, ready to receive a drainage layer of min. 260mm deep clean angular stone to be placed under the footprint of the planting pit. A 60mm Ø perforated aeration pipe should be installed to run the length of the planting pit/trench. This pipe should be brought to the surface with min. two no. vertical pipes to enable access for cleaning.
5. Note; where services are running through the planting pit/trench, every effort should be made to ensure the services are running through the minimum amount of the planting pit. Allow for any and all services to be wrapped in protective root barrier geotextile.
6. The geotextile lining is to be installed to the entire perimeter with a minimum of 500mm overlap. Penetrations for services should be carefully made through the geotextile. All penetrations should be sealed with cable ties where possible.
7. The proposed soil, as per the specifications, should be loaded into the planting pit by hand and not with a mechanical excavator. Light compaction should occur by tapping the soil with the back of a shovel etc. If practically possible, the soil should be allowed to settle prior to planting.

Initial Maintenance: Ensure all inlets/vent covers, pipes, adjacent paving, retaining edges or kerbs and plants are free from debris and are installed correctly. Any damage should be brought to the attention of the Project Landscape Architect immediately.

GENERAL SOILS SPECIFICATION NOTES FOR HEDGE TRENCH

Plant Available Nutrient Values - Average Values

1. Total Nitrogen:	>0.290 %w/w
2. Available Phosphorous:	25 - 125 mg/L
3. Available Potassium:	300 - 1,000 mg/L
4. Available Magnesium:	120 - 500 mg/L
5. Available Calcium:	>1,200 mg/L
6. Available Copper EDTA :	7 mg/L
7. Available Zinc EDTA:	10 mg/L
8. Available Sodium:	88 mg/L
9. Available Sulphate:	630 mg/L
10. Hot Water-Soluble Boron:	1.3 mg/L
11. Organic Matter (LOI):	5 - 15 %w/w
12. pH Value:	6 - 8.5
13. Carbon: Nitrogen Ratio:	7-18: 1
14. Bulk Density:	800 - 1,100 g/L

HEDGE TRENCH BACKFILL SOIL - Manufactured to B.S. 3882:2015

Key Components

1. Material: Topsoil, peat-free compost, horticultural grit and Sand	
2. Purity: Free from physical & chemical containments & pathogens.	
3. Size Distribution:	100% passing through 25mm screen.
	50% passing through 10mm screen
4. Soil Texture:	Clay (<0.002mm) 5-18 %
	Silt (0.002-0.05mm) 0-25 %
	Sand (0.05-2.0mm) 65-85%
5. Stone Content:	%DW (2-20mm) < 10%
	%DW (20-50mm) <3%
6. Moisture Content:	%12 - 30%
7. Conductivity:	<3300 µS/cm

TRENCH BACKFILL SUB-SOIL - Manufactured to B.S. BS8601:2013 soil standard

Key Components

1. Material: Subsoil consisting of aggregate mineral, organic and inorganic components.	
2. Particle Size: Materials screened to ensure no metal or sharps content. Particle size in the range 0 -50mm.	
3. Textural Class:	Sandy Clay Loam
4. Moisture Content:	5-15%
5. Organic Matter:	1.5-5%
6. pH Value:	6.5 - 8.5
7. Conductivity:	<500 µS/cm

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PROJECT	PROPOSED PUBLIC REALM WORKS, LEESON STREET, DUBLIN 2
CLIENT DUBLIN CITY COUNCIL	**PROJECT ARCHITECT** DUBLIN CITY COUNCIL
JOB NO. 19_150	**PLANNING REFERENCE** NOT APPLICABLE
DRAWING	GENERAL WORKS SPECIFICATION AND NOTES, SOIL SPECIFICATIONS FOR HEDGE TRENCH
DRAWING NO. 19_150_LA_P-05	

DRAWN BY J COUGHLAN *MILI*	**CHECKED** COLM KENNY *MILI*	**DATE** 2022-06-15
STATUS: DISCUSSION	**SCALE** nts @ A3	**REVISION** F

NOTES:
All dimensions are in millimeters unless otherwise stated and shall be checked and confirmed by the contractor on site. Any discrepancies shall be immediately reported to the landscape architects. Work to figured dimensions only - Do not scale from drawing. Do Not Scale. Not for Construction Purposes unless Specifically Marked.