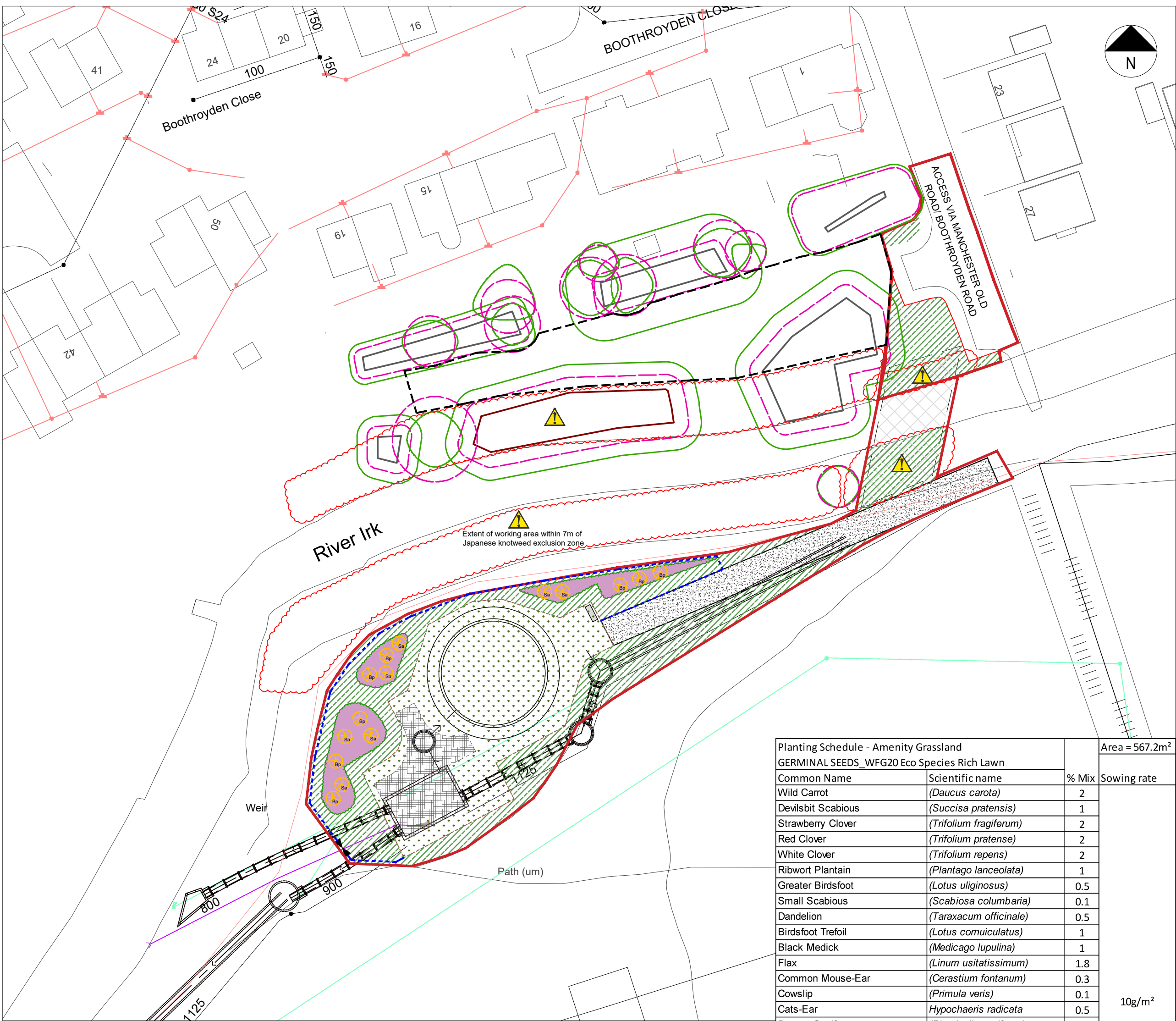




PLANT SCHEDULE							
Common Name	Scientific Name	% Mix	Form / Habit	Age / Condition or No. of Times Transplanted	Minimu m Height (cm)	Root Condition: B = Bagged / Bare Root - RB = Rootball, C= Container Litres	Planting Groups
TREES - as indicated upon Drawing							
Silver Birch	<i>Betula pendula</i>		Feathered		180-250		1
Mountain Ash	<i>Sorbus aucuparia</i>		Feathered		180 - 250		1
SHRUBS - planted at 1m centres							
Dogwood	<i>Cornus alba</i>	20	Transplant	1+1	40-60	B	3
Dogwood	<i>Cornus sanguinea</i>	30	Branched 2 breaks	1+1	40-60	B	3
Hazel	<i>Corylus avellana</i>	20	Transplant	1+1	40-60	B	3
Blackthorn	<i>Prunus spinosa</i>	10	Transplant	1+1	40-60	B	3
Gelder Rose	<i>Viburnum opulus</i>	20	Bushy Habit		40-60	C - 5L pot	2

Planting Schedule - Amenity Grassland			Area = 567.2m ²
GERMINAL SEEDS_WFG20 Eco Species Rich Lawn			
Common Name	Scientific name	% Mix	Sowing rate
Wild Carrot	<i>(Daucus carota)</i>	2	
Devilsbit Scabious	<i>(Succisa pratensis)</i>	1	
Strawberry Clover	<i>(Trifolium fragiferum)</i>	2	
Red Clover	<i>(Trifolium pratense)</i>	2	
White Clover	<i>(Trifolium repens)</i>	2	
Ribwort Plantain	<i>(Plantago lanceolata)</i>	1	
Greater Birdsfoot	<i>(Lotus uliginosus)</i>	0.5	
Small Scabious	<i>(Scabiosa columbaria)</i>	0.1	
Dandelion	<i>(Taraxacum officinale)</i>	0.5	
Birdsfoot Trefoil	<i>(Lotus corniculatus)</i>	1	
Black Medick	<i>(Medicago lupulina)</i>	1	
Flax	<i>(Linum usitatissimum)</i>	1.8	
Common Mouse-Ear	<i>(Cerastium fontanum)</i>	0.3	
Cowslip	<i>(Primula veris)</i>	0.1	
Cats-Ear	<i>Hypochaeris radicata</i>	0.5	
Burnett Saxifrage	<i>(Pimpinella saxifrage)</i>	0.2	
Autumn Hawkbit	<i>(Leontodon autumnalis)</i>	1	
Yellow Rattle	<i>(Rhinanthus minor)</i>	1	
Yarrow	<i>(Achillea millefolium)</i>	1.8	
Wild Pansy	<i>(Viola tricolor)</i>	0.2	
Sheeps Fescue	<i>(Festuca ovina)</i>	20	
Strong Creeping Red Fescue	<i>(Festuca rubra rubra)</i>	15	
Slender Creeping Red Fescue	<i>(Festuca rubra litoralis)</i>	12.5	
Chewings Fescue	<i>(Festuca rubra commutata)</i>	12.5	
Smooth Stalked Meadow Grass	<i>(Poa pratensis)</i>	10	
Browntop Bent	<i>(Agrostis capillaris)</i>	5	
Creeping Bent	<i>(Agrostis stolonifera)</i>	2.5	
Lolium perenne	<i>(Lolium perenne)</i>	2.5	

Planting Schedule - Amenity Grassland			Area = 1087.8m ²
Germinal Seeds A22 Low Maintenance			
Common Name	Scientific name	% Mix	Sowing rate
Calico Perennial Ryegrass	<i>(Lolium perenne)</i>	40	
Borluna Slender Creeping red fescues	<i>(Festuca rubra rubra)</i>	35	
Cabrio perennial ryegrass	<i>(Lolium perenne)</i>	20	
Highland Browntop Bentgrass	<i>(Agrostis castellana)</i>	5	

Key Notes:

Contractor to confirm positions of all buried utilities prior to commencement of landscape works. Proposals positioning in relation to underground services are subject to further on-site ground and utilities investigation.

Existing trees to be retained should be protected during construction as per BS 5837.

Prior to laying topsoil and soil ameliorants, the Contractor shall give the Project Manager two weeks notice before any of the following activities are undertaken; setting out, spreading topsoil, applying herbicide, applying fertilizer or visiting site during the maintenance period.

Root Barriers are to be included to protect utilities in close proximity to trees.

Japanese Knotweed

Treatment of Japanese Knotweed (*Reynoutria japonica*) to be carried out in accordance with best practice guidance as noted upon the government website (<https://www.gov.uk/guidance/prevent-japanese-knotweed-from-spreading>). A species specific Management Plan need to be in place prior to the treatment and removal of the species and associated contaminated soil, from site. Areas of Japanese Knotweed to be temporarily fenced off to avoid the transfer of contaminated material, within the wider temporary works area.

Ground Preparation:

All works to be carried out in accordance with **United Utilities - Standard Specification - C08 Landscape Works (Feb 2021)**

If it is necessary to make up any deficiency of topsoil existing on site and to complete the work, the Contractor shall source topsoil to BS 3882 with the following attributes:

- pH value between 6.0-7.5
- Shall not contain stones greater than 20mm in size nor have a total stone content exceeding 10% by mass.
- Classification: Multipurpose.
- Grade: Within the parameters of 'sandy loam' textural class.

The Contractor shall propose the products to be used and their source to the Project Manager for acceptance prior to ordering them.

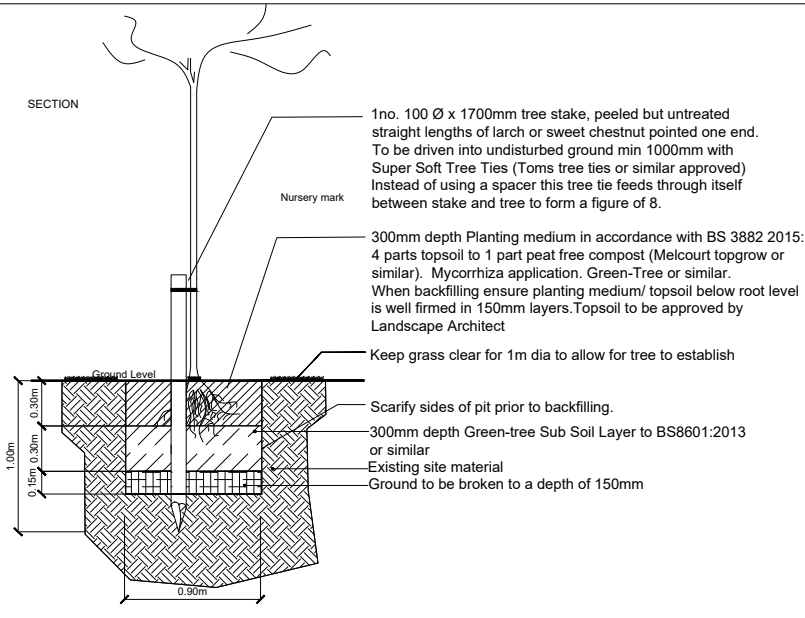
Topsoil Depths -

If topsoil is compacted it shall be broken up to full depth. It shall be worked to a fine tilth by loosening, aerating and breaking up the topsoil so it is suitable for blade grading. Preparation shall be done within a few days before planting in suitably dry weather and ground conditions. The final surface profile shall be regular. Any undesirable materials brought to the surface, such as visible weeds, roots and large stones with any dimension exceeding 50 mm, shall be removed. Preparation shall achieve the following:

- Depth: 150 mm (grass), 350mm (shrubs), and 450mm (shrubs and trees).
- Particle size (maximum): 20mm.
- Levels: 25mm above adjoining paving or kerbs and 50mm above adjoining lawns.

Soil within root spread of trees and shrubs is to be retained; the Contractor shall not dig or cultivate within these protected areas.

- PLANTING NOTES**
- General
- Plant material to conform to the National Plant Specification. Plant handling and planting operations to be in accordance with HTA 'Handling and Establishing Landscape Plants', Parts I-III.
 - Trees & Shrubs
 - Planting the trees should be carried out in accordance with British Standard BS:8545 2014.
 - Planting season: Late November to late March.
 - During excavation of the tree pit, the soil dug should be placed to one side separating topsoil and subsoil as far as is practical. Excavated topsoil to be free of perennial weeds, weed seeds and contamination and stone picked to remove any stones larger than 50mm prior to re-use. Excavated topsoil to be ameliorated and/or screened if necessary, to achieve this specification.
 - Backfill should be added gradually, in layers of 150 mm to 230 mm depth. The layers should match the surrounding subsoil and topsoil as closely as possible. At each stage the fill should be firmed in to eliminate all air pockets under and around the root system, but with care being taken not to excessively compact the soil. The final layer of backfilling should not be consolidated but should be of a sufficient depth to allow for settlement and mulching. Approximately 200g of organic slow release fertilizer per tree shall be worked into the backfill mixture.
 - Feathered trees to be supported by 1no. tree stakes & 1no. adjustable tree tie. Stake in line with prevailing winds, or when planted on embankment, stakes to be parallel and to the top of the slope.
 - The root flare of the newly planted tree should be clearly visible at the soil surface. It should not be buried by excess soil or mulch.
 - Tree pit sides should not have compacted, glazed or smeared sides from digging. Sides of a planting pit that have been smeared or smoothed during excavation should be scarified.
 - Ensure pit free of rubble or concrete before backfilling with soil, compost and fertilizer mix.
 - The rootball or root-stem transition should be level with the existing host soil.
- Areas of proposed wildflower - Amenity grassland to be sown at the rates as noted within the accompanying plant schedules. Seed to be sown in overlapping sections and then firmed to ensure good seed / soil contact. Seed to be sown ideally in Spring or Autumn during periods of favourable weather conditions.



DO NOT SCALE

Proposed Temporary Bridge area

Red line Boundary Planning

Site Compound Area

Proposed new access road to UU CSO and detention tank

Proposed new fence area (extension of existing)

Remediation - reinstatement of amenity grassland - Germinal Seeds - A22 Low Maintenance Mix

Proposed amenity grassland - Germinal seeds - WFG20 - ECO Species Rich Lawn

Existing Hardstanding surface to be retained

Proposed shrub planting refer to planting schedule for specification

Existing tree groups to be retained

Existing trees to be retained

Root Protection Area

Proposed Native Tree Planting Sorbus aucuparia (Mountain Ash)

Proposed Native Tree Planting Betula pendula (Silver Birch)

Hazard area - Japanese knotweed present

Temporary Stock proof fencing with gated access

C03	27/03/24	JY	Updated Site Compound Area	FS	RV
C02	25/03/24	JY	Updated Red Line Boundary	FS	RV
C01	19/03/24	JY	First Issue	FS	RV
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS:

No 8 First Street, Manchester, M15 4RP, UK

T + 44 (0) 161 200 5000

wsp.com

CLIENT:

United Utilities

ARCHITECT:

WSP

PROJECT:

Boothroyden Road CSO

TITLE:

Landscape General Arrangement Plan

SCALE @ A2:

1:500

CHECKED:

FS

APPROVED:

RV

PROJECT No:

70114053

DESIGNED:

FS

DRAWN:

JY

DATE:

19/03/24

DRAWING No:

70114053-LUD-001

REV:

C03

© WSP UK Ltd