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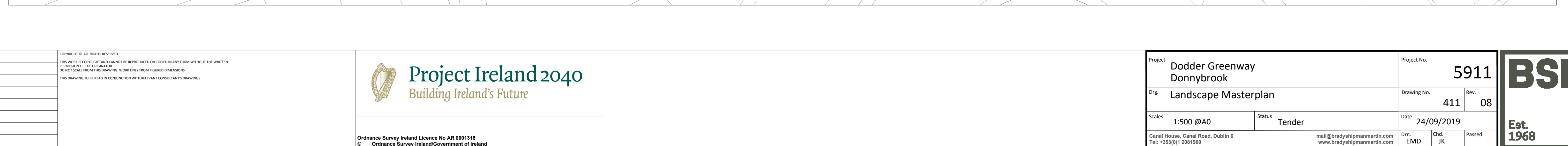
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ELECTRONIC AND DIGITAL TRANSMITTALS

Please be advised that every effort has been made to ensure that the data information configured and created with our software is complete and correct at the time of issuing.

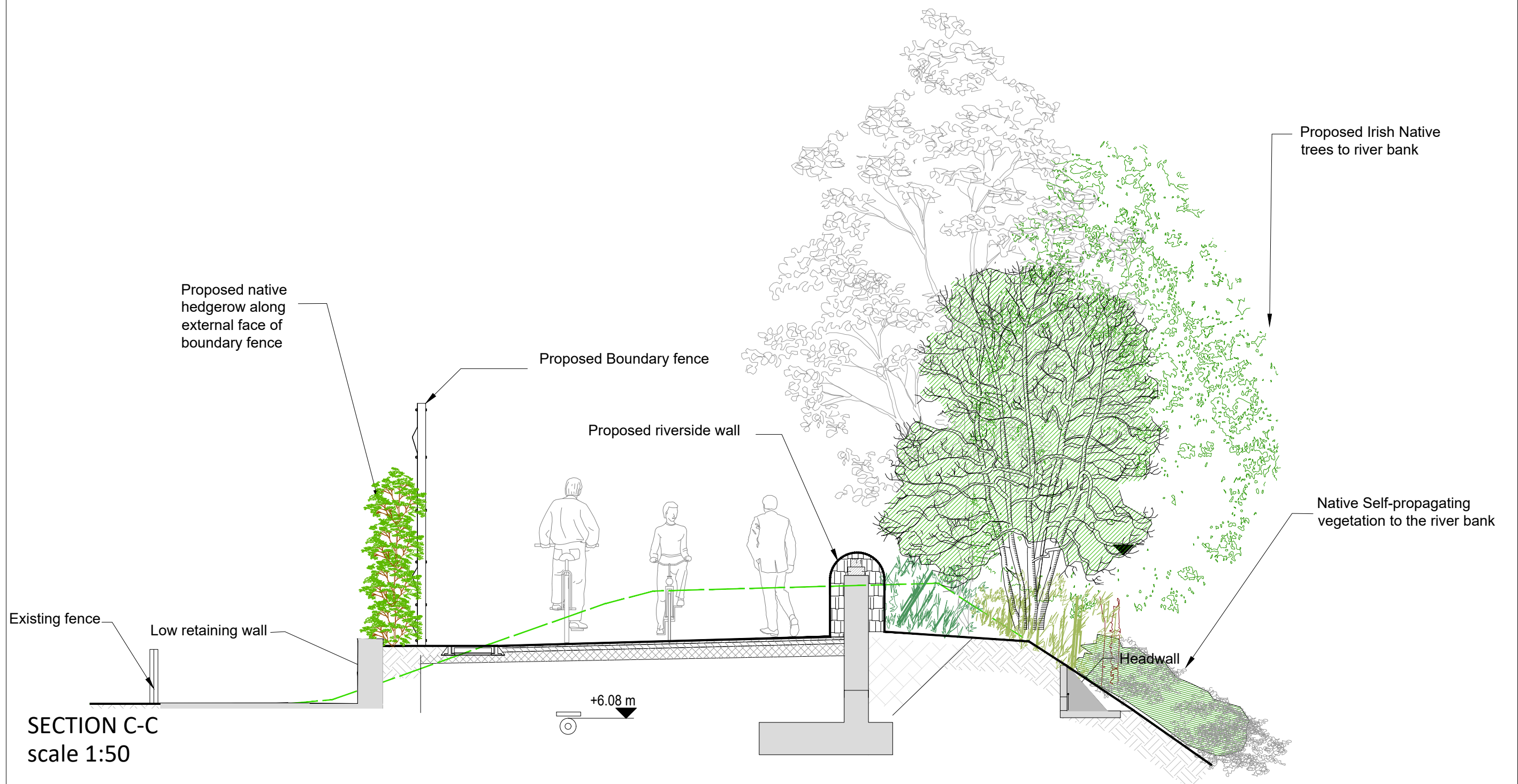
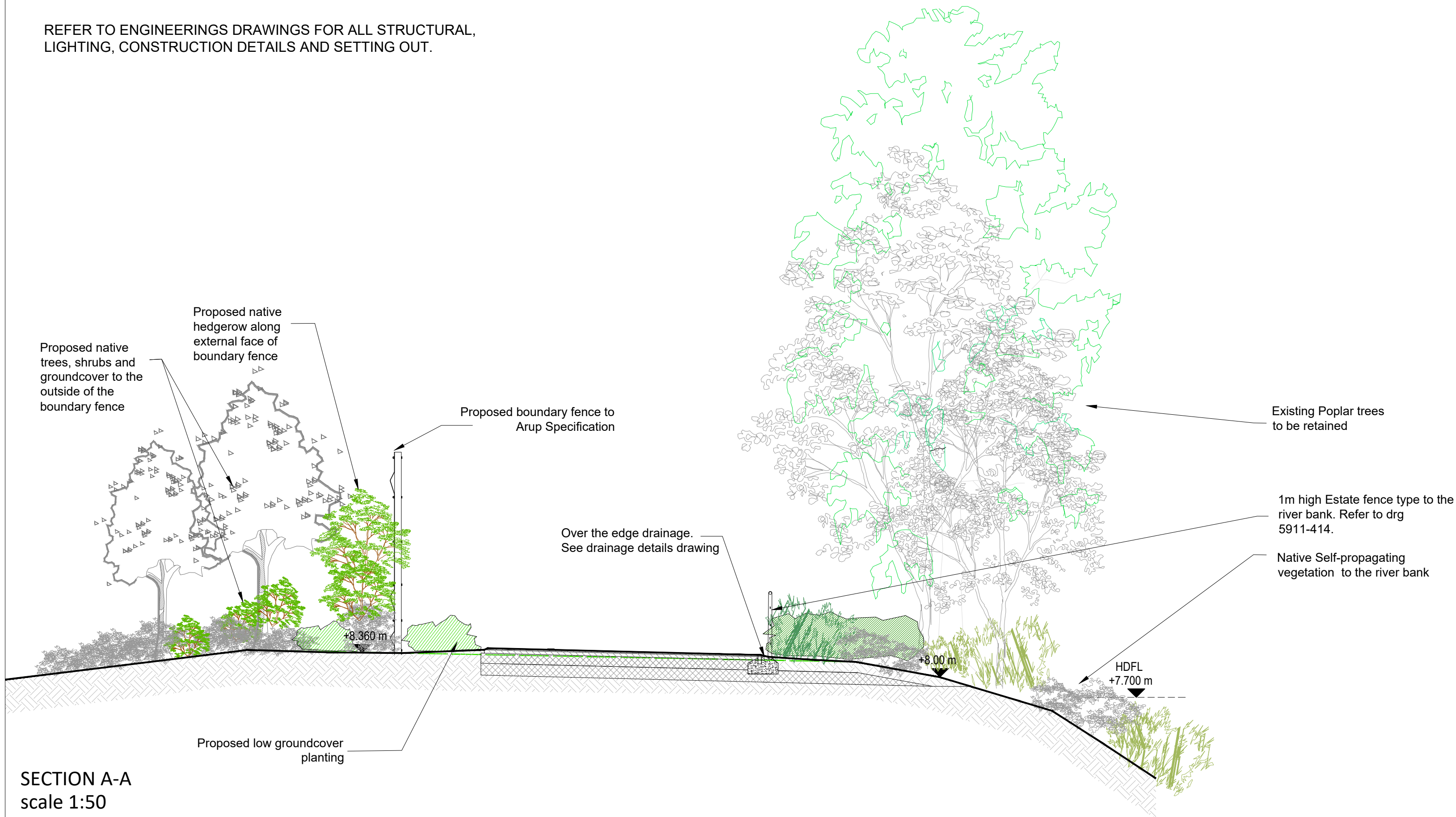
Please refer to the followings
drawings with this package;

- 5911-412-Landscape Sections
- 5911-413- Planting Plan
- 5911-414-Landscape Details
- 5911-415-Landscape Zoom In Plan
- 5911-416-Landscape Detail



Project		Dodder Greenway Donnybrook		Project No.		5911	
Site		Landscape Masterplan		Drawing No.		411	
Scales		1:500 @A0		Status		Tender	
Dates		24/09/2019		Date		24/09/2019	
General Notes		Canal Road, Dublin 8 Tel: +353(0)1 2345678		Email		www.bsm.ie	
Drawn		EMD		Checked		JK	
Issued		EMD		Checked		JK	
Est.		1968		Est.		1968	

REFER TO ENGINEERINGS DRAWINGS FOR ALL STRUCTURAL, LIGHTING, CONSTRUCTION DETAILS AND SETTING OUT.

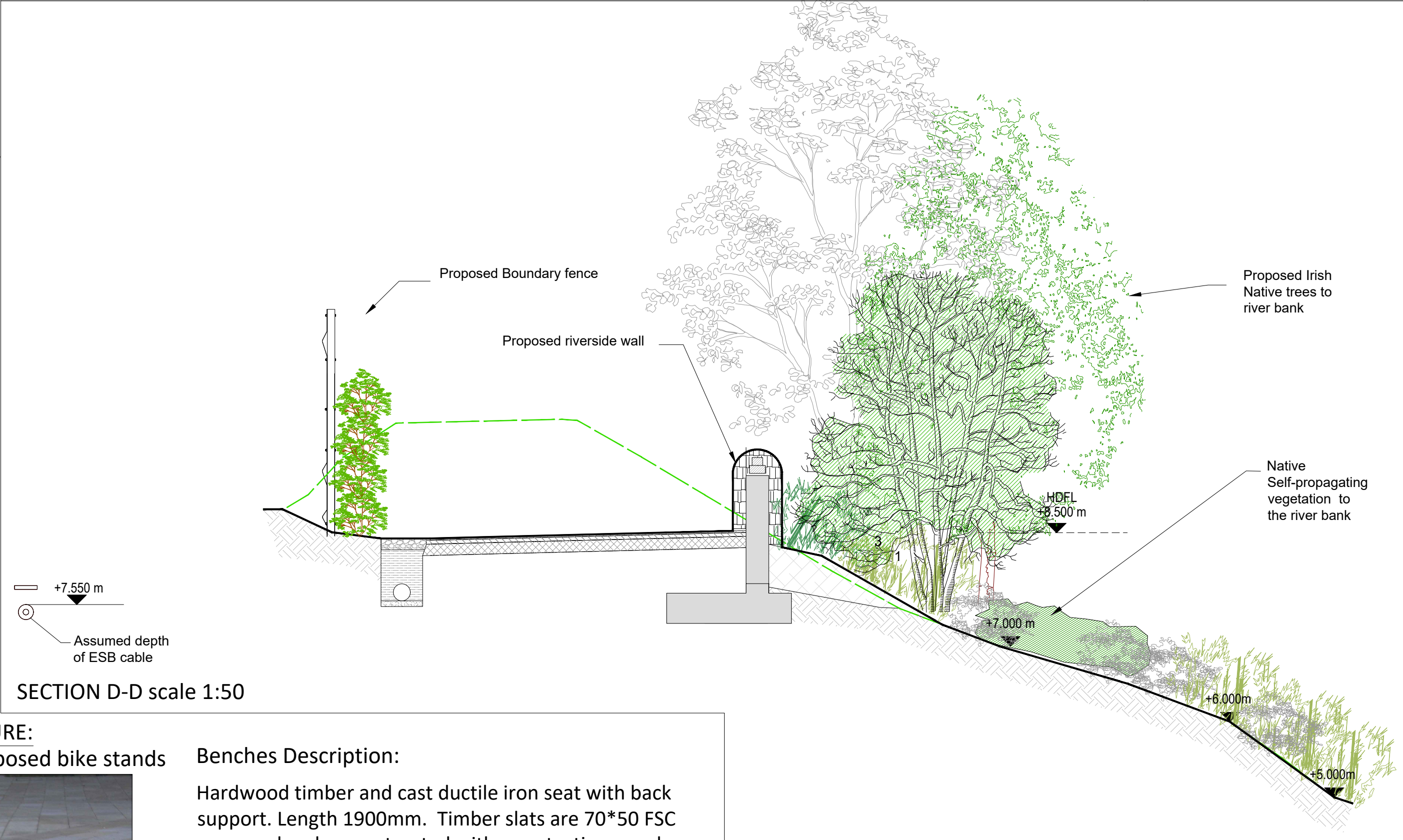
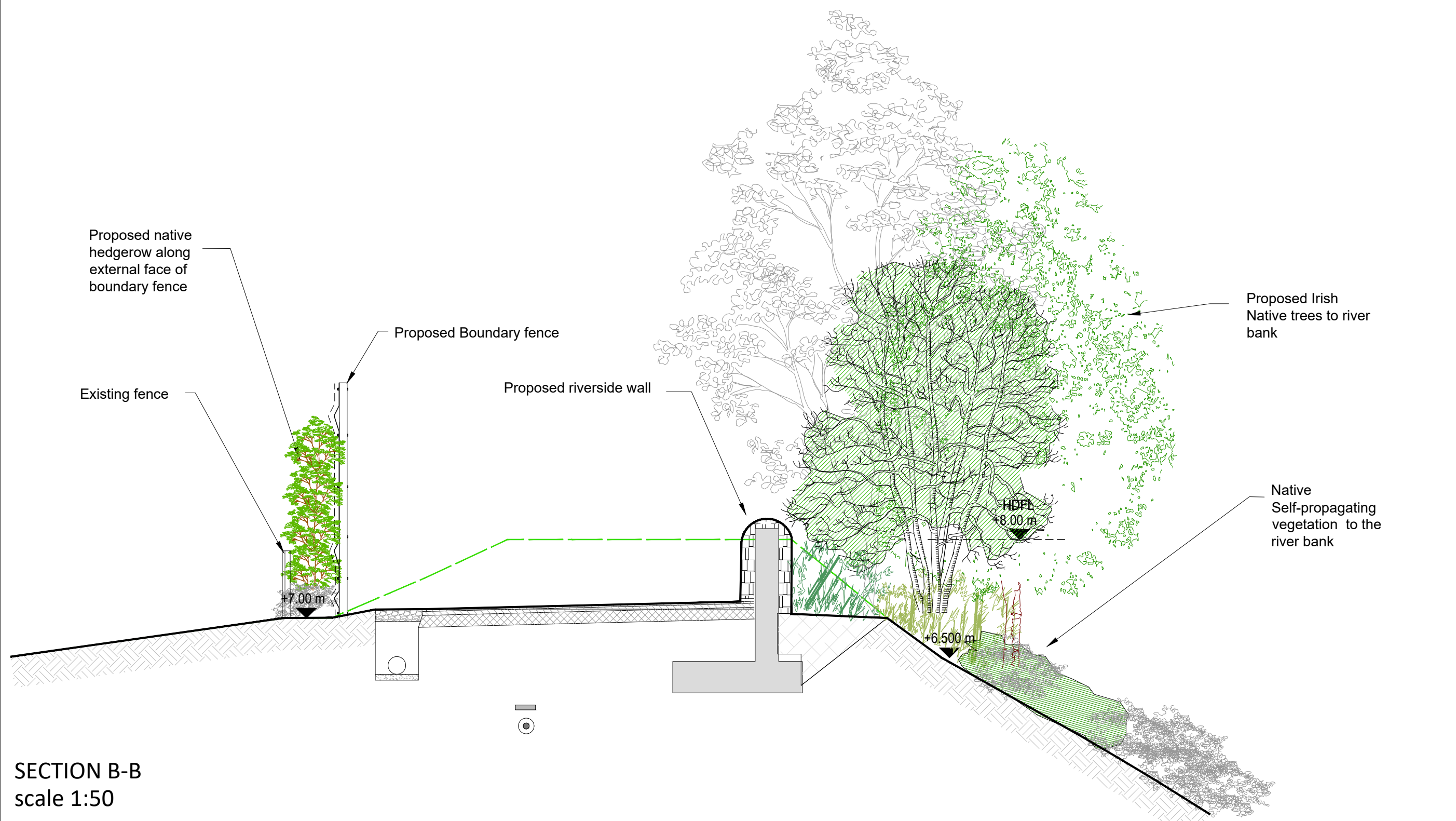


NOTE: For Paladin fence and Estate fence refer to Detail Drawing no.414

Rev	Date	Drawn	Checked	Description
04	22/08/19	EMD	TB	Revised Tender Package
03	22/08/19	EMD	TB	Revised Tender Package
02	Dec-2018	CF	TB	Revised to Updated Layout
01	01-10-2018	CF	TB	Revised to Updated Layout



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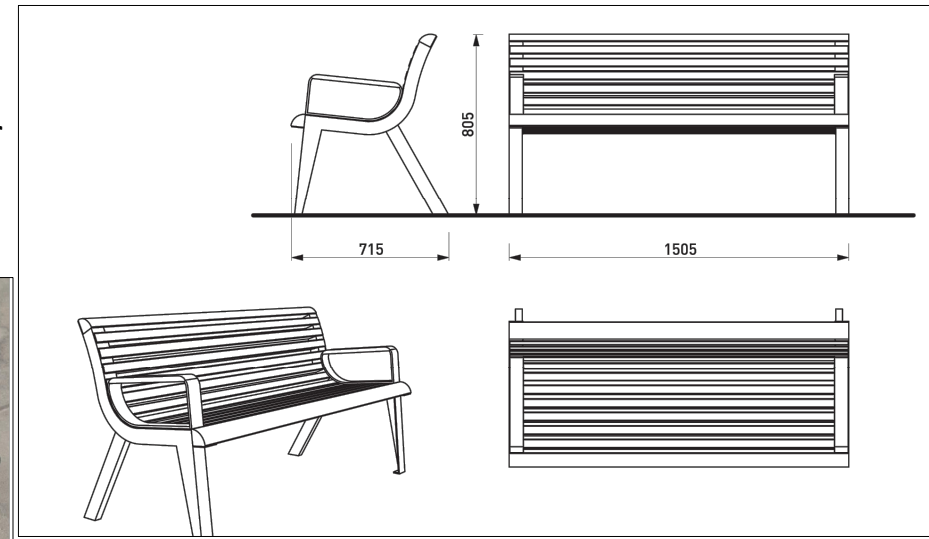


PROPOSED SITE FURNITURE:
Reference image for proposed bike stands



Benches Description:
Hardwood timber and cast ductile iron seat with back support. Length 1900mm. Timber slats are 70*50 FSC approved mahogany treated with a protective wood staining. Supports are to be manufactured from 10mm cast ductile iron. Ductile iron components are to be fully galvanised and powder coated. Bench to be root fixed. Fixtures and fittings are stainless steel.

Reference image for proposed park benches



SS Cycle Stands Description:
Stainless steel curved cycle stand. 316 grade stainless steel. 1020mm wide*1100mm. Pipe is 50mm with a 2mm thickness. 810 over ground level and 300mm underground level. Brushed finish.

Project	Dodder Greenway Donnybrook	Project No.	5911
Orig.	Landscape Sections	Drawing No.	412
Rev.		Rev.	05
Scales	As shown @A1	Status	Tender
Date	20/09/2019	Drn.	EMD
Chd.	JK	Passed	
Canal House, Canal Road, Dublin 6 Tel: +353(0)1 2081900		mail@bradyshippmanmartin.com www.bradyshippmanmartin.com	

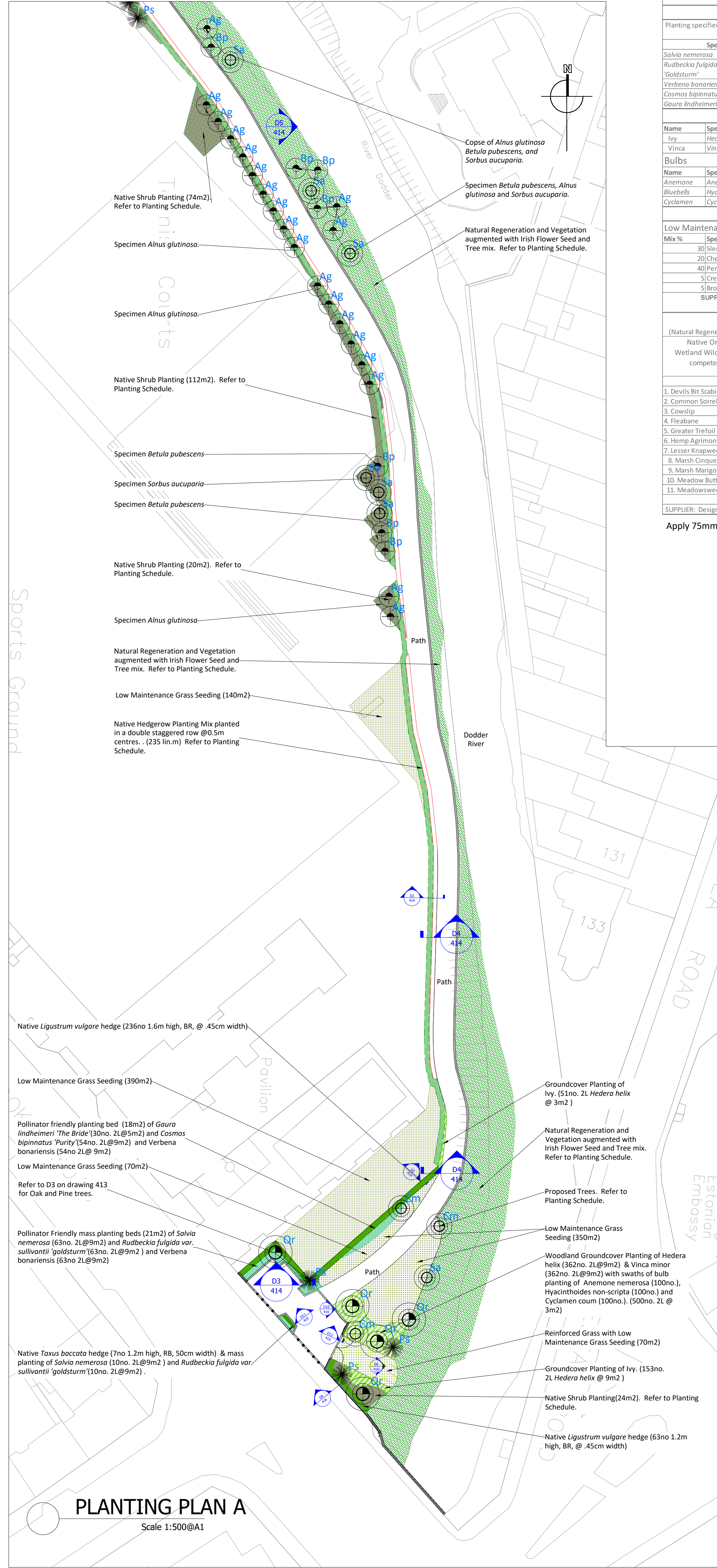


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LEGEND

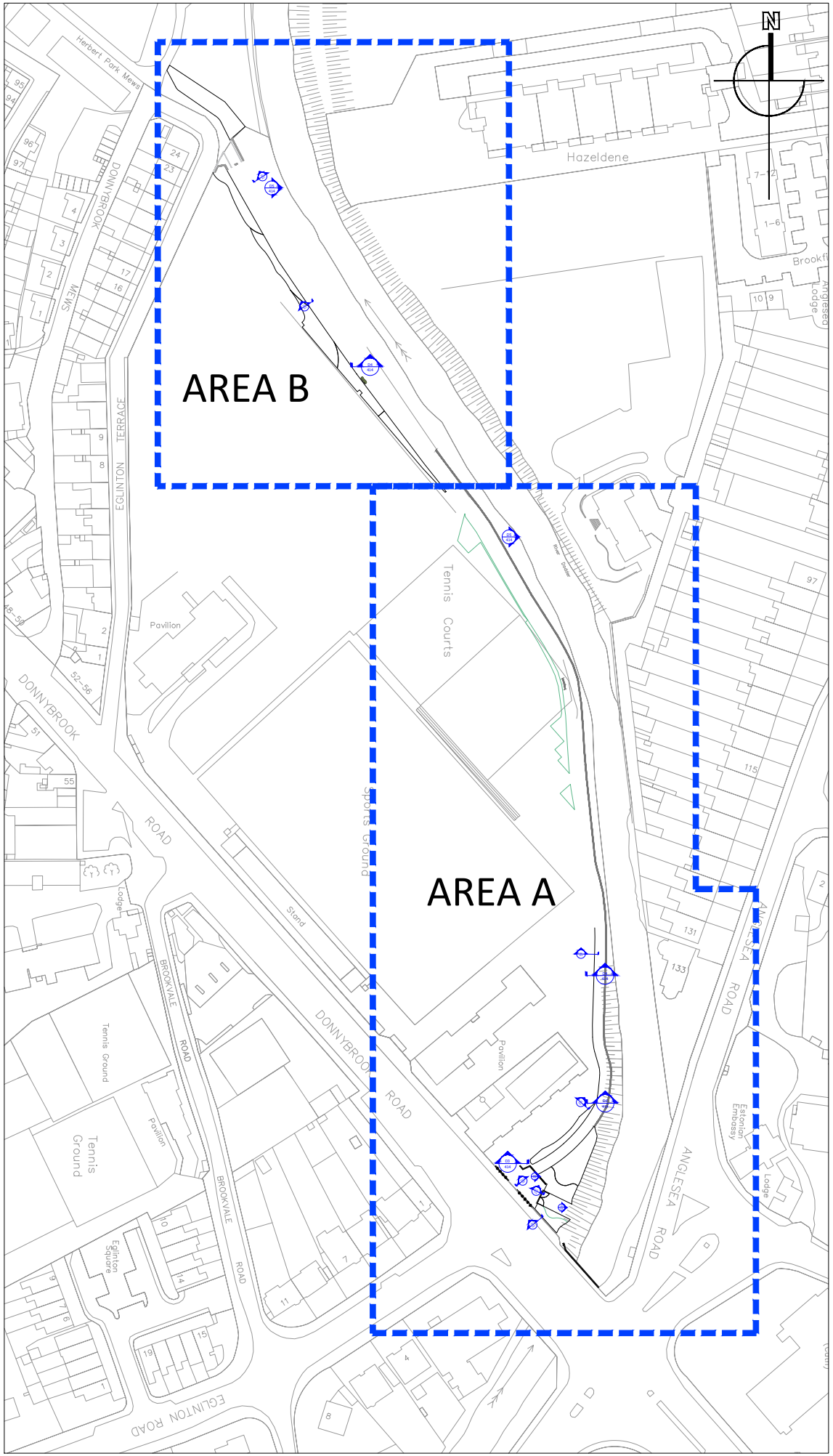
- Proposed Tree Planting**
- Proposed Standard Tree Planting (14-16cm).
 - Proposed Standard Heavy Tree Planting (16-18cm). Refer to D7 on dwg 414.
 - Proposed Semi Mature Tree Planting (20-25cm) Refer to D3 & D6 on dwg 414.
 - Proposed Pine Tree Planting (2-2.5m High). Refer to D4 on dwg 414.
- Proposed Planting**
- Native Mix of Hedgerow Planting. Refer to D4 on dwg 414.
 - Privet (*Ligustrum vulgare*) Hedge Planting. Refer to D4 on dwg 414.
 - Yew (*Taxus baccata*) Hedge Planting
 - Mixed Native Shrub Planting. Refer to D5 on dwg 414.
 - Proposed Pollinator Friendly Entrance Planting. Refer to D5 on dwg 414.
 - Proposed Groundcover planting. Refer to D5 on dwg 414.
 - Proposed Grass Seeding. Refer to D4 on dwg 414.
 - Proposed Riverbank Planting. Refer to D4 on dwg 414.

Refer to Planting Details on drawing 414.



Tree Planting Schedule															
Nr	Species	Abbrv.	Height	Size	Stem	Type									
Heavy Standards			49												
32	<i>Alnus glutinosa</i>	Ag	3.5-4m	14-16cm	Clear 2m	BR									
17	<i>Betula pubescens</i>	Bp	3.5-4m	14-16cm	Clear 2m	RB									
Extra Heavy Standard & Pine			38												
18	<i>Sorbus aucuparia</i>	Sa	4.0-4.5m	16-18cm	Clear 2m	RB									
9	<i>Crataegus monogyna 'Stricta'</i>	Cm	4.0-4.5m	16-18cm	Clear 2m	RB									
11	<i>Pinus sylvestris</i>	Ps	2-2.5m	20-25cm	Feathered	RB									
Semi Mature			5												
5	<i>Quercus robur</i>	Qr	4.0-4.5m	20-25cm	Clear 2m	RB									
Hedgerow Planting Schedule															
(Planted double staggered row)															
Area (lin.m.)	485	Plant spacing (m centres)				0.6									
Name	Species	Size	Form	% Mix	Quantity										
Hawthorn	<i>Crataegus monogyna</i>	1.6m-1.8	Transplant, 1+2, br	60.00%	485										
Blackthorn	<i>Prunus spinosa</i>	1.6m-1.9	Transplant, 1+2, br	20.00%	162										
Holly	<i>Ilex aquifolium</i>	2L	20-30cm	20.00%	162										
Total				100.00%	808										
Native Hedgerow (Planted double staggered row)															
				Lin m	106										
Name	Species	Size	Form	Spacing ctrs	Quantity										
Privet	<i>Ligustrum vulgare</i>	1.6-1.8m	BR, Bushy 1+2	0.45	236										
Native Hedgerow (Planted single row)															
				Lin m	6										
Name	Species	Size	Form	Spacing ctrs	Quantity										
Yew	<i>Taxus baccata</i>	1-1.2m high	BR Bushy, 50cm width	0.45	7										
Mixed Native Shrub Planting Schedule															
Area (m2.)	685	Plant spacing (m2)				5									
Name	Species	Size	Form	% Mix	Quantity										
Goulder rose	<i>Viburnum opulus</i>	60-90cm	Transplant, 0/1/1, br	20.00%	27										
Hazel	<i>Corylus avellana</i>	60-90cm	Transplant, 0/1/1, br	30.00%	41										
Holly	<i>Ilex aquifolium</i>	20-30cm	20-30cm, P9	30.00%	41										
Elder	<i>Sambucus nigra</i>	60-90cm	Transplant, 0/1/1, br	20.00%	27										
Total				100.00%	808										
Pollinator Friendly Planting Schedule															
Planting specified is recommended by all Ireland national pollinator plan 2015-2020 and RHS pollinator friendly planting to increase pollinators in scheme.															
Species	Size	Form	Spacing m2	Quantity											
<i>Salvia nemerosa</i>	2L	CG. 25-40cm	9	73											
<i>Rudbeckia fulgida</i> var <i>sulivantii</i>	2L	CG. 25-40cm	9	73											
<i>Verbena bonariensis</i>	2L	CG. 25-40cm	9	117											
<i>Cosmos bipinnatus</i>	2L	CG. 25-40cm	9	54											
<i>Gaura lindheimeri</i>	2L	CG. 25-40cm	5	30											
Groundcover Planting Schedule															
Name	Species	Size	Form	Spacing m2	Quantity										
Ivy	<i>Hedera helix</i> 'Green	2L	CG. 20-30cm	3	1015										
Vinca	<i>Vinca minor</i>	2L	CG. 20-30cm	3	362										
Bulbs															
Name	Species	Spacing			Quantity										
Anemone	<i>Anemone nemerosa</i>	To be planted in large clusters of 45 or more			100										
Bluebells	<i>Hyacinthoides non-scripta</i>				100										
Cyclamen	<i>Cyclamen coum</i>				100										
Seeding Planting Schedule (1500m2)															
Low Maintenance Grass Mix															
Mix %	Species														
30	Slender Creeping Red Fescue														
20	Chewings Fescue														
40	Perennial Ryegrass														
5	Creeping Bentgrass														
5	Browntop Bentgrass														
SUPPLIER: National Agrochemical Distributors Ltds, Blakes Cross, Lusk, Co.Dublin															
Email: sales@nadirl.com Tel: 01 8437909 or equivalent															
Riverbank Planting Schedule (3267m2)															
(Natural Regeneration of Vegetation augmented with Irish Wild Flower Seed & Native Tree Species)															
Native Origin Irish Wildflower Seed Mixtures: Ecotype Range (Product Code: EC05)															
Wetland Wild Flora (Seasonally Flooded) EC05 is a vigorous, medium tall mixture which can compete with the often fertile wetland soils on which many wetlands are situated.															
Species List: Code EC05 Wetland Wild Flora (Seasonally Flooded)															
1. Devils Bit Scabious	12. Meadow Rue	23. Wild Angelica													
2. Common Sorrel	13. Oxeye Daisy	24. Wild Valerian													
3. Cowslip	14. Purple Loosestrife	25. Yarrow													
4. Fleabane	15. Ragged Robin	26. Yellow Flag Iris													
5. Greater Trefoil	16. Red Clover	27. Yellow Rattle													
6. Hemp Agrimony	17. Red Rattle	28. Corn Marigold													
7. Lesser Knapweed	18. Ribwort Plantain	29. Corn Poppy													
8. Marsh Cinquefoil	19. Selfheal	30. Comcockle													
9. Marsh Marigold	20. Sneezewort	31. Cornflower													
10. Meadow Buttercup	21. Tufted Vetch	32. Scented Mayweed													
11. Meadowsweet	22. Water Avens														
Seed Mixture Specifications: Total number of seeds per gram: 2450															
SUPPLIER: Design By Nature - Monavea, Carlow, Ireland: R93T289. Info@wildflowers.ie, or equivalent.															

Apply 75mm Depth Mulch to all Planting Areas



KEY PLAN

1:2000@A1



Note:Refer to Drg No.414 for details

04	04/06/19	EMD	JK	Tender Drawings	
03	03/05/19	EMD	JK	Revised Tender Drawings	
02	Dec/2018	CF	JK	Revised to updated layout	
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Rev	Date	Drawn	Checked	Description	



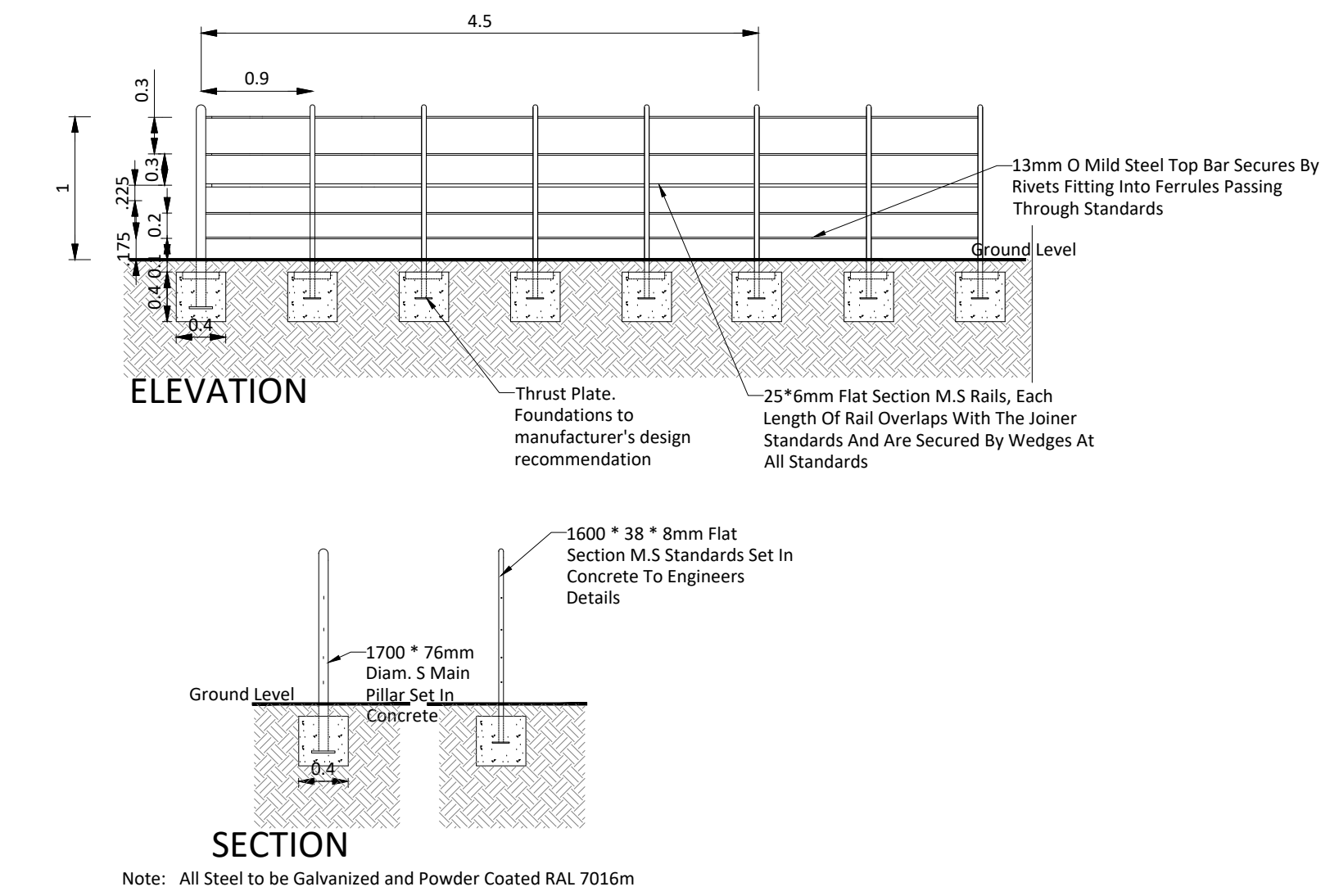
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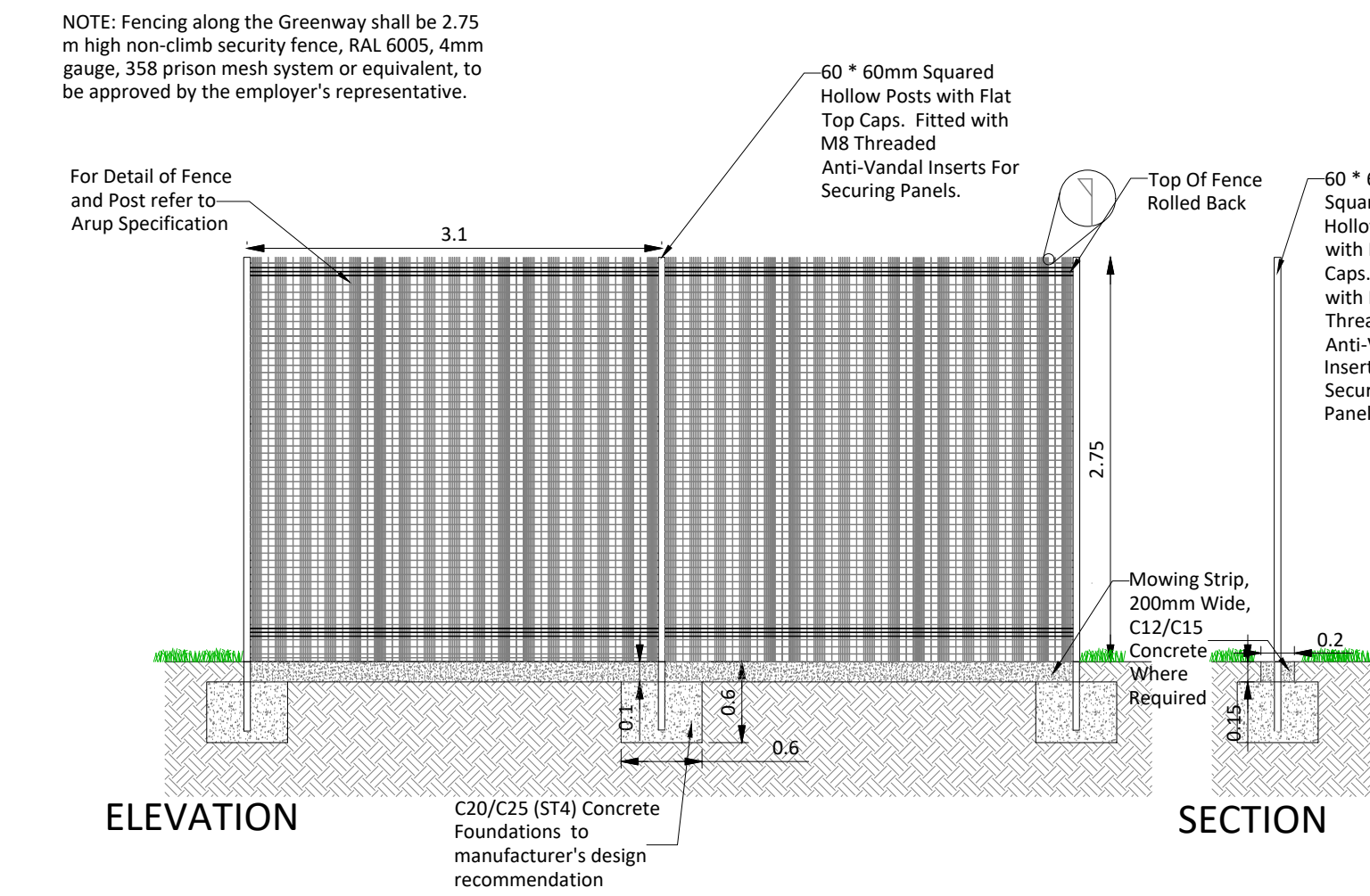
Project		Dodder Greenway Donnybrook		Project No.		5911	
Drg.		Planting Plan		Drawing No.		413	
Status		Tender		Rev.		05	
Scales		As shown @A1		Date		28/06/2019	
Canal House, Canal Road, Dublin 6		Tel: +353(0)1 2081900		Drm.		EMD	
mail@bradysipmanmartin.com		www.bradysipmanmartin.com		Chd.		JK	
				Passed			

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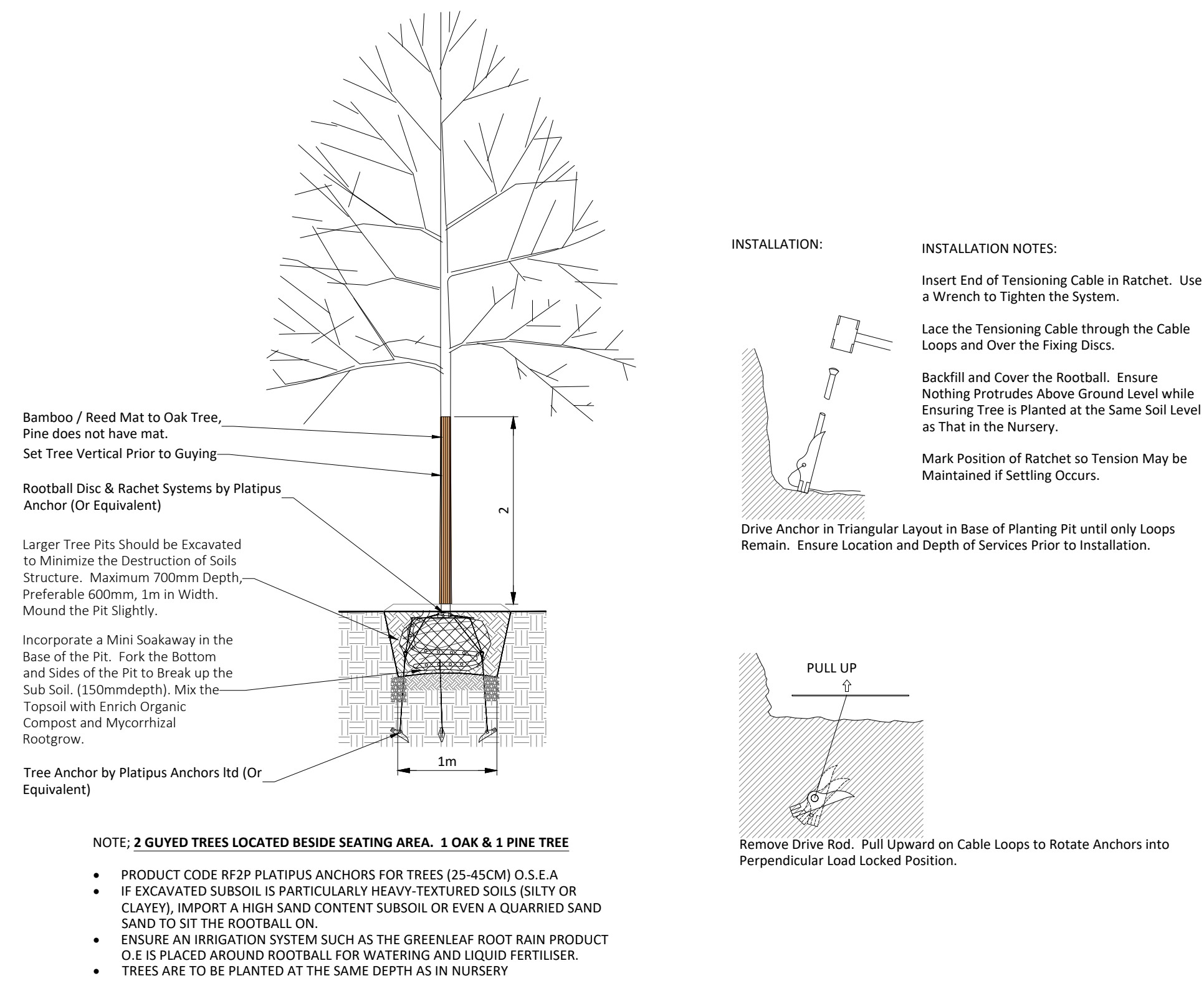
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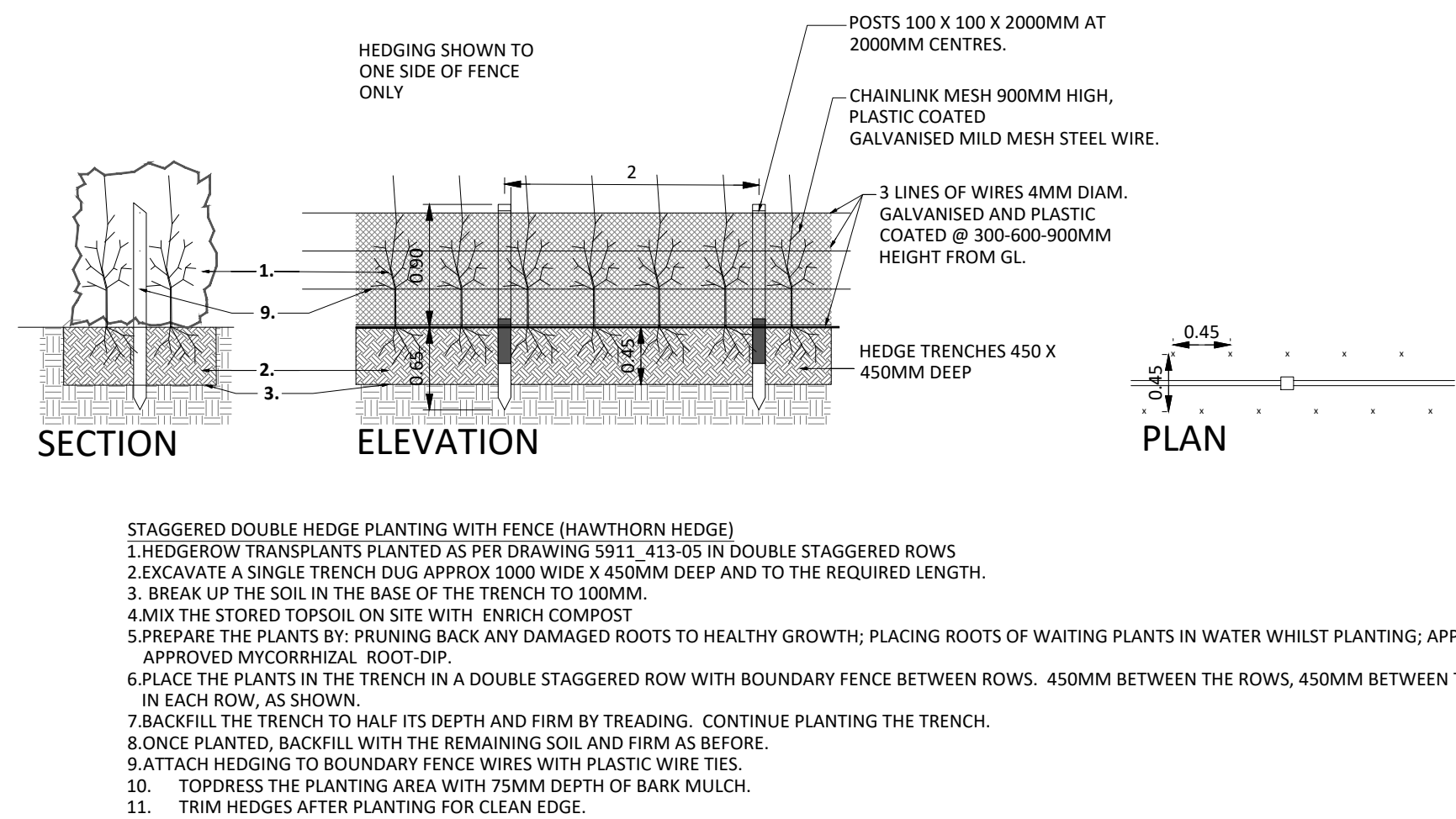
1 STEEL POST AND RAIL FENCE Scale 1:50@A1



2 GREENWAY FENCE 2.75m HIGH Scale 1:50@A1

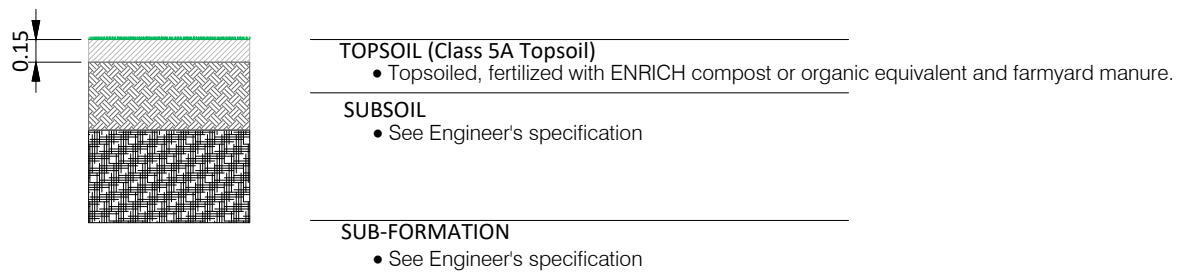


3 TREE(OAK & PINE) IN ENTRANCE AREA ANCHORED AND GUYED Scale 1:50@A1

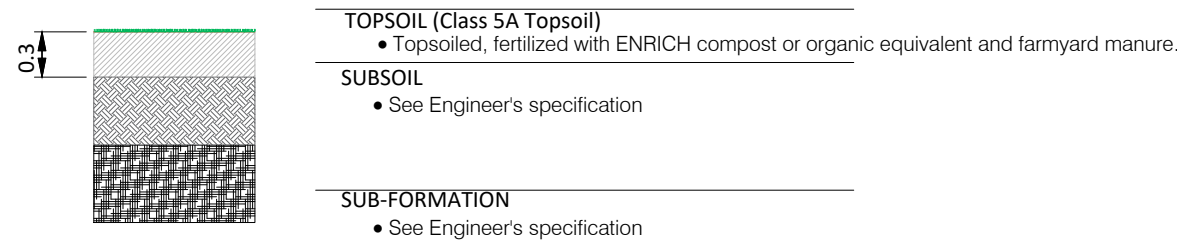


4 HEDGE PLANTING Scale 1:50@A1

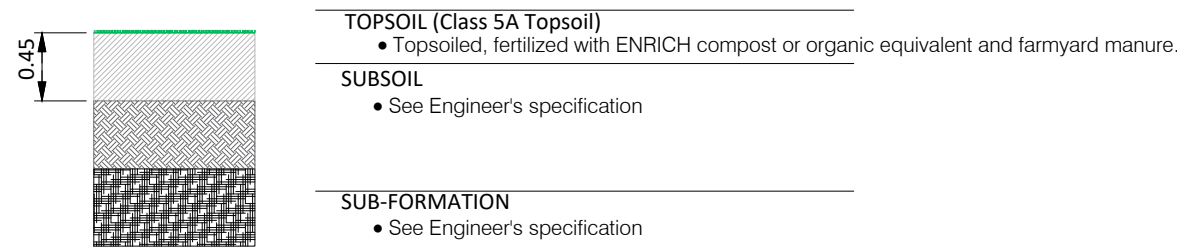
TREATMENT 1 - to grass areas



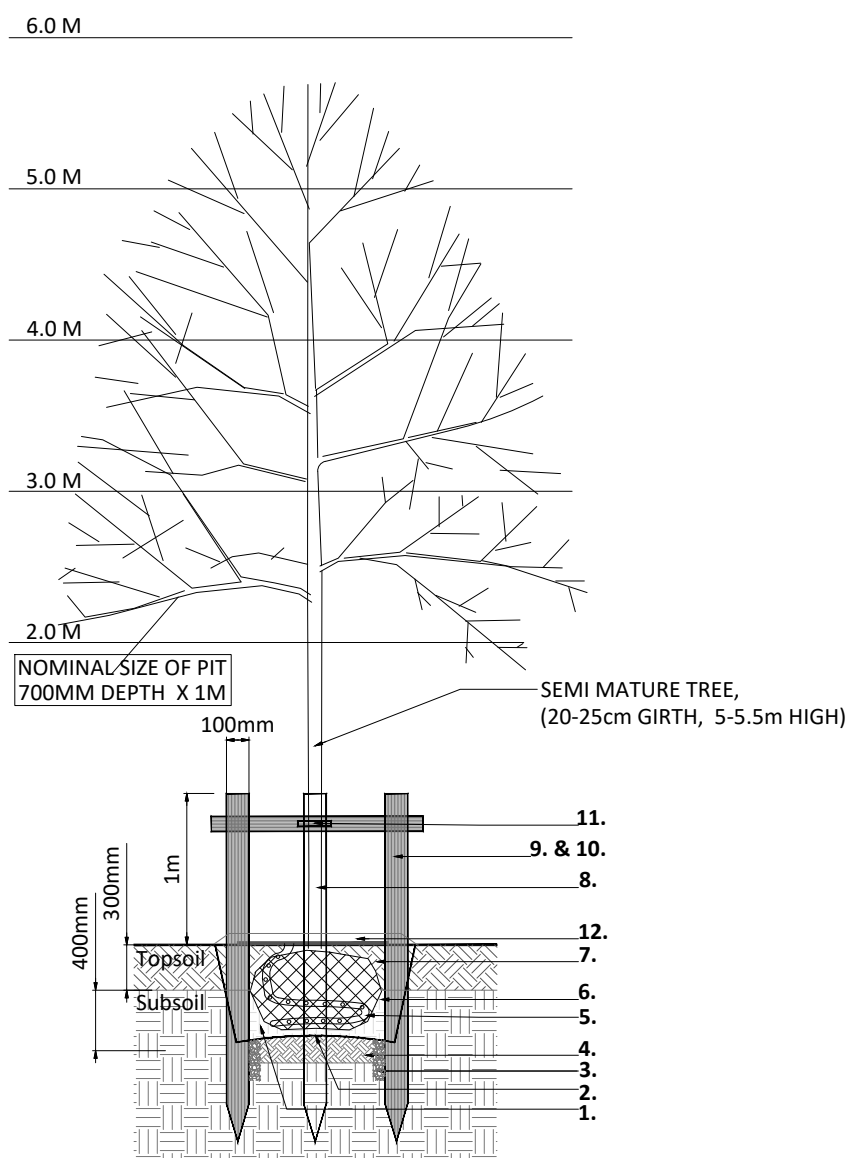
TREATMENT 2 - to general planting areas



TREATMENT 3 - to pollinator friendly planting areas



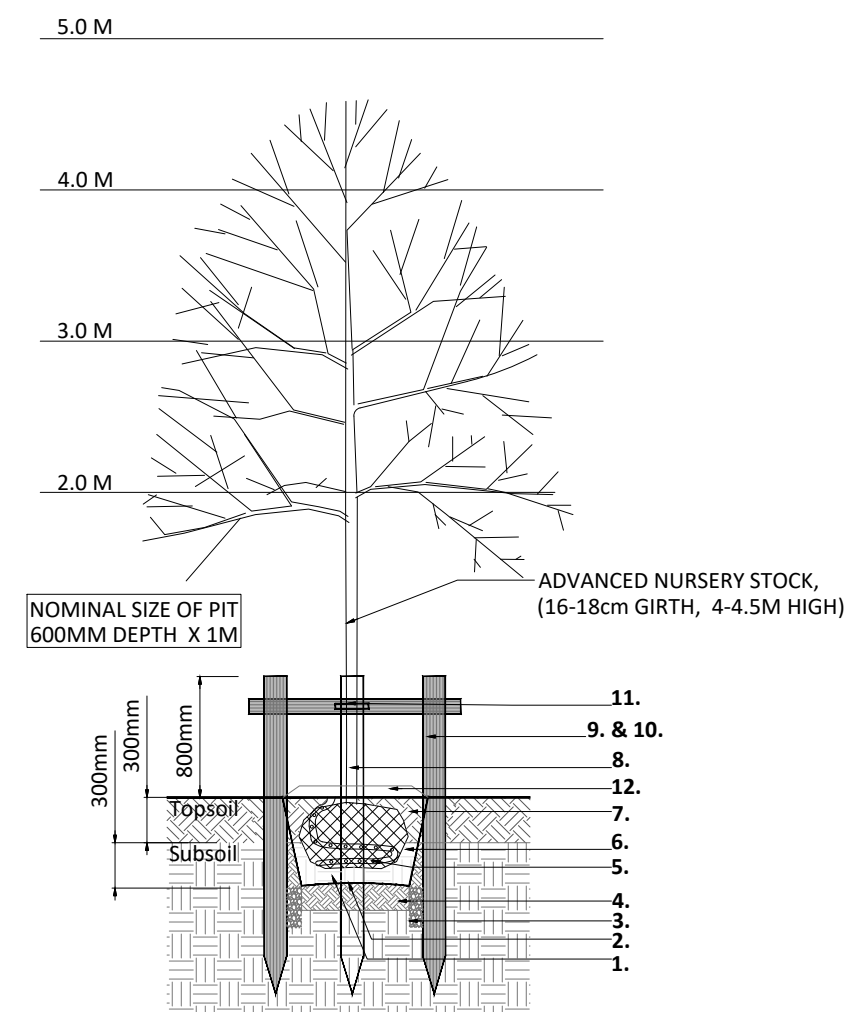
5 TOPSOIL DEPTHS Scale nts@A1



NOTES:

1. LARGER TREE PITS SHOULD BE EXCAVATED TO MINIMISE THE DESTRUCTION OF SOILS STRUCTURE. MAXIMUM 700MM DEPTH, PREFERABLE 600MM, 1M IN WIDTH.
2. MOUND THE PIT SLIGHTLY TO HELP SHED WATER AWAY FROM THE UPPER ROOTBALL.
3. INCORPORATE A MINI SOAKAWAY IN THE BASE OF THE PIT, OR CONNECTING THE PIT TO A POSITIVE DRAINAGE OUTFALL.
4. FORK THE BOTTOM AND SIDES OF THE PIT TO BREAK UP THE SUB SOIL. (150MM DEPTH)
5. ENSURE AN IRRIGATION SYSTEM SUCH AS THE GREENLEAF ROOT RAIN PRODUCT O.S.E.A IS PLACED AROUND ROOTBALL FOR WATERING AND LIQUID FERTILISER.
6. IF EXCAVATED SUBSOIL IS PARTICULARLY HEAVY-TEXTURED SOILS (SILTY OR CLAYEY), IMPORT A HIGH SAND CONTENT SUBSOIL OR EVEN A QUARRIED SAND SAND TO SIT THE ROOTBALL ON.
7. MIX THE TOPSOIL WITH ENRICH COMPOST AND MYCORRHIZAL ROOTGROW.
8. TREES ARE TO BE PLANTED AT THE SAME DEPTH AS IN NURSERY (AS INDICATED BY THE SOIL MARK ON THE STEM OF TREES) AND THE SOIL IS CAREFULLY FIRMED BACK UP TO EXISTING GROUND LEVEL.
9. PAINT STAKES AND RAIL IN A PRIMER AND APPLY TWO COATS OF FLAT BLACK PAINT TO WOOD.
10. DRIVE IN THE 4 STAKES SO THE STAKES SO THEY ARE A MINIMUM OF 300MM BELOW THE BOTTOM OF THE POT AND 1M ABOVE GROUND LEVEL. THE STAKES AND RAIL ARE TO BE SWEET CHESTNUT OR PEELD LARCH POLES, POINTED AT ONE END, PRESSURE TREATED, AND STRONG ENOUGH TO TAKE NAIL WITHOUT SPLITTING.
11. FIT TREE TIE. TREE TIES SHALL BE OF RUBBER, OR BIODEGRADABLE FABRIC COMPOSITION AND SHALL BE SECURED TO THE STAKE CROSS RAIL USING GALVANISED NAILS.
12. SPREAD 75-100MM DEPTH OF MULCH OVER AN AREA OF 1M DIAMETER AROUND THE TREE, AND MAINTAIN UNTIL SPRING FOLLOWING THE FIRST GROWING SEASON.
13. PROTECT THE TREE BASE FROM RABBIT DAMAGE ECT. BY USING A TREE GUARD.
14. THE STAKES AND RAIL ARE TO BE REMOVED AS SOON AS THE TREE IS ANCHORED SECURELY BY ITS OWN ROOTS (AT THE START OF THE SECOND GROWING SEASON AFTER PLANTING).

6 20-25cm OAK TREE PLANTING Scale 1:50@A1



16-18cm TREE NOTES:

1. LARGER TREE PITS SHOULD BE EXCAVATED TO MINIMISE THE DESTRUCTION OF SOILS STRUCTURE. MAXIMUM 700MM DEPTH, PREFERABLE 600MM, 1M IN WIDTH.
2. MOUND THE PIT SLIGHTLY TO HELP SHED WATER AWAY FROM THE UPPER ROOTBALL.
3. INCORPORATE A MINI SOAKAWAY IN THE BASE OF THE PIT, OR CONNECTING THE PIT TO A POSITIVE DRAINAGE OUTFALL.
4. FORK THE BOTTOM AND SIDES OF THE PIT TO BREAK UP THE SUB SOIL. (150MM DEPTH)
5. ENSURE AN IRRIGATION SYSTEM SUCH AS THE GREENLEAF ROOT RAIN PRODUCT O.S.E.A IS PLACED AROUND ROOTBALL FOR WATERING AND LIQUID FERTILISER.
6. IF EXCAVATED SUBSOIL IS PARTICULARLY HEAVY-TEXTURED SOILS (SILTY OR CLAYEY), IMPORT A HIGH SAND CONTENT SUBSOIL OR EVEN A QUARRIED SAND SAND TO SIT THE ROOTBALL ON.
7. MIX THE TOPSOIL WITH ENRICH COMPOST AND MYCORRHIZAL ROOTGROW.
8. TREES ARE TO BE PLANTED AT THE SAME DEPTH AS IN NURSERY (AS INDICATED BY THE SOIL MARK ON THE STEM OF TREES) AND THE SOIL IS CAREFULLY FIRMED BACK UP TO EXISTING GROUND LEVEL.
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13. PROTECT THE TREE BASE FROM RABBIT DAMAGE ECT. BY USING A TREE GUARD.
14. THE STAKES AND RAIL ARE TO BE REMOVED AS SOON AS THE TREE IS ANCHORED SECURELY BY ITS OWN ROOTS (AT THE START OF THE SECOND GROWING SEASON AFTER PLANTING).

7 16-18cm TREE PLANTING Scale 1:50@A1

Rev	Date	Drawn	Checked	Description
04	19/08/19	EMD	JK	Revised Tender Drawings
03	04/06/19	EMD	JK	Revised Tender Drawings
02	02/05/19	EMD	JK	Revised Tender Drawings
01	Dec/2018	EMD	JK	Revised to updated layout



Project Ireland 2040
Building Ireland's Future

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Project	Dodder Greenway Donnybrook	Project No.	5911
Drg.	Landscape Details	Drawing No.	414
Rev.		Rev.	05
Scales	As shown @A1	Status	Tender
Date	22/08/2019	Drn.	EMD
Chd.	JK	Passed	
Canal House, Canal Road, Dublin 6 Tel: +353(0)1 2081900	mail@bradyshipmanmartin.com www.bradyshipmanmartin.com		

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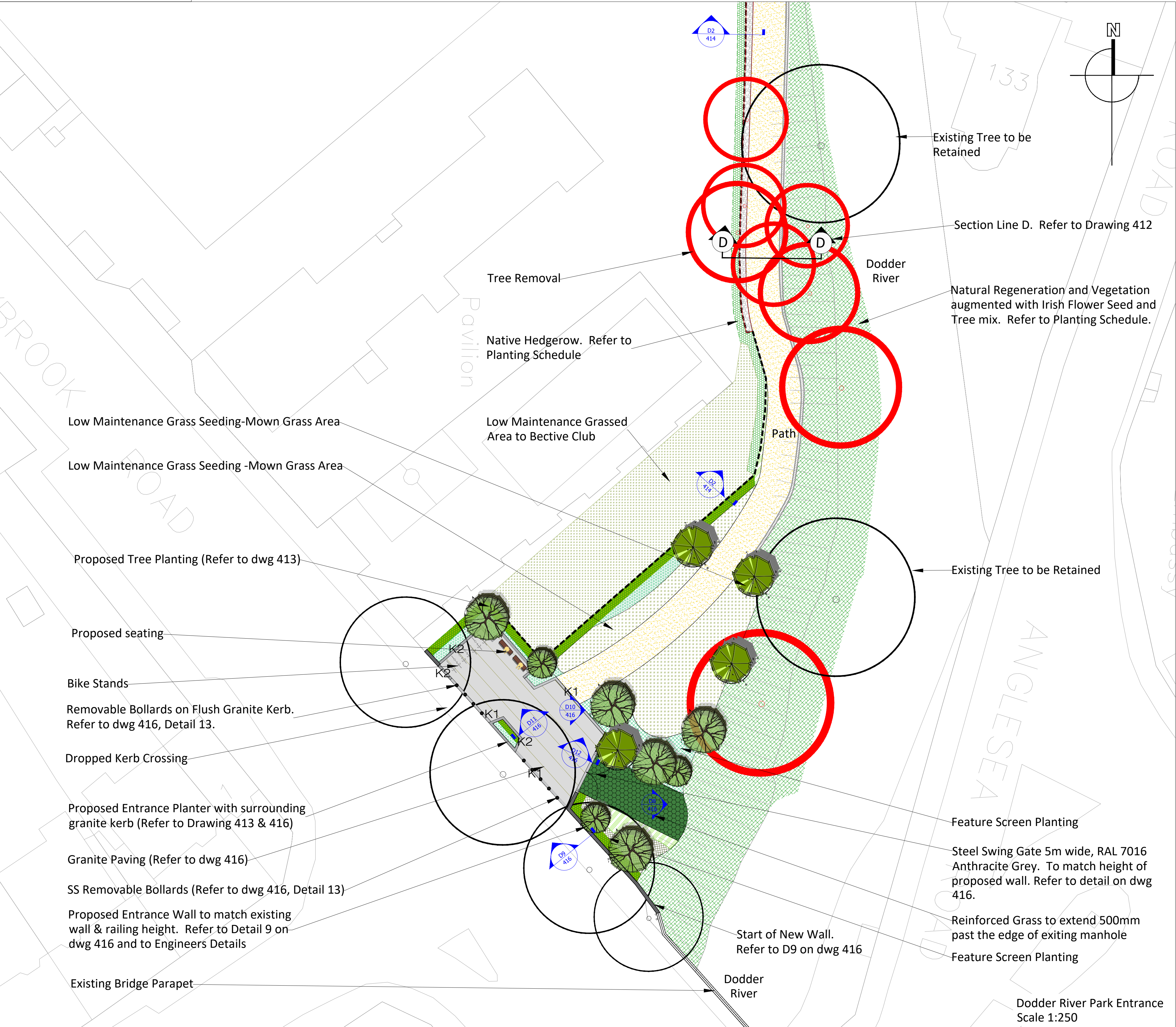
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1968

LEGEND

- Tree Removal Proposals
- Proposed Irish Native Trees. Refer to Dwg. No.413
- Existing trees to be retained
- Existing native vegetation to be retained to River Dodder bank
- Proposed mixed native hedgerow. Refer to Dwg. No. 413 & 414-D4.
- Proposed native hedgerow. Refer to Dwg. No. 413 & 414-D4.
- Proposed Pollinator Friendly planting (at entrance) as specified by All Ireland National Pollinator Plan 2015-2021 and RHS Pollinator friendly planting
- Proposed groundcover planting. Refer to Dwg. No.413
- Proposed low maintenance grass - Bective Lawn Tennis Club
- Proposed mown grass - Dodder Park Entrance
- Proposed Reinforced Grass with plastic protection mesh. Refer to Drg 5911-416
- Gravel drainage strip inside boundary fence to Engineer's detail
- Proposed Paladin boundary fence to Engineers detail & 414-D2
- Proposed stone wall to Engineers' detail
- Proposed 1.0m high Estate fence type to the river bank. Refer to Dwg No. 414-D1
- Proposed park benches to open space. Refer to Dwg No.412 for details
- Proposed 600x600x63mm modular granite paving. Refer to Drg 5911-416
- Proposed low limestone clad wall and capping to engineer's detail.
- Proposed grey granite flush kerb to paved area 900x300x300mm. Refer to Drg.5911-416
- Proposed grey granite kerb upstand to planter 900x300x300mm. Refer to Drg 5911-416
- Proposed cycle/pedestrian path to Arup specification.
- Cycle Stands to Engineer's Details
- Low Gate Swing Gate (Refer to D12-dwg 416). Anthracite Grey RAL 7016 Powder Coated Steel to Engineers Details)
- Removable Bollards (Refer to dwg 416, Detail 13)



Northern Entrance to Dodder River Greenway
Scale 1:250



Dodder River Park Entrance
Scale 1:250

06	19-08-2019	EMD	JK	Revised Paving Material
05	23-07-2019	EMD	JK	Tender Package
04	28-06-2019	EMD	JK	Tender Package
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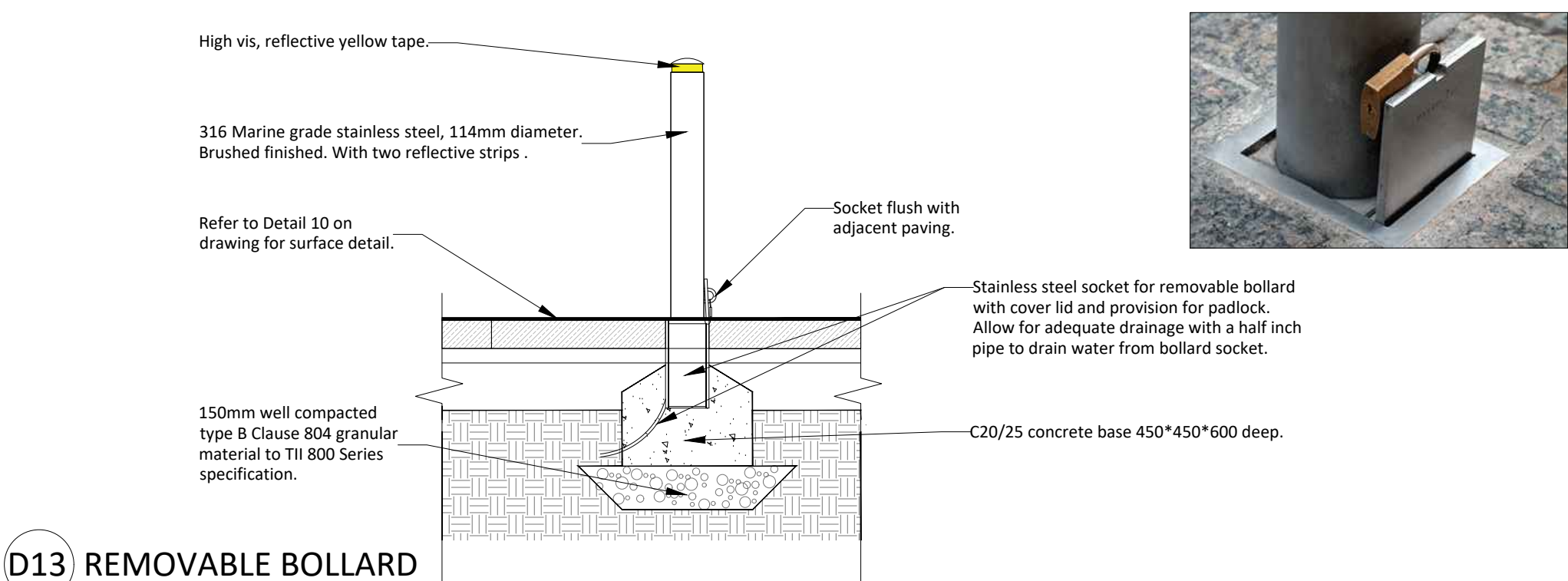
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Dwg. Dodder Park Entrance Detail Plan			Drawing No. 415		Rev. 07
Scales As shown @A1		Status Tender	Date 24/09/2019		
Canal House, Canal Road, Dublin 6 Tel: +353(0)1 2081900			mail@bradysjpmannmartin.com www.bradysjpmannmartin.com		
			Drn. EMD	Chd. JK	Passed



BSM
Est. 1968



D13 REMOVABLE BOLLARD

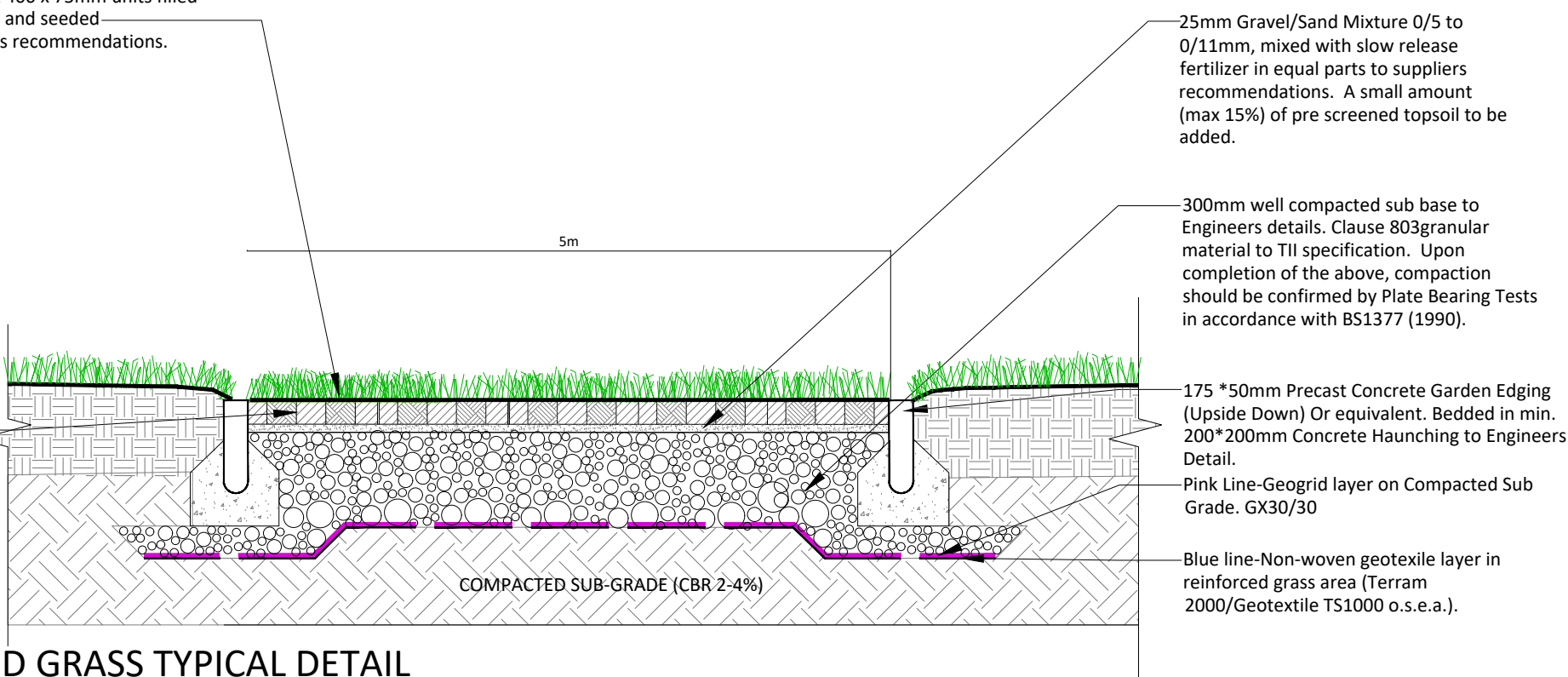


'CELLPAVE HD' - 600 x 400 x 75mm units filled with topsoil, compost and seeded. Laid to Manufacturer's recommendations.

Fill with Substrates with a high water capacity (>50% by volume) and adequate air capacity(>=10% by air). Substrates based on approximated 50% by volume of a low salt(max 3g salt/l), mature, vegetation-compatible compost mixed with open-pored mineral substances. (eg. lava/pumice) Allow for settlement and refill.

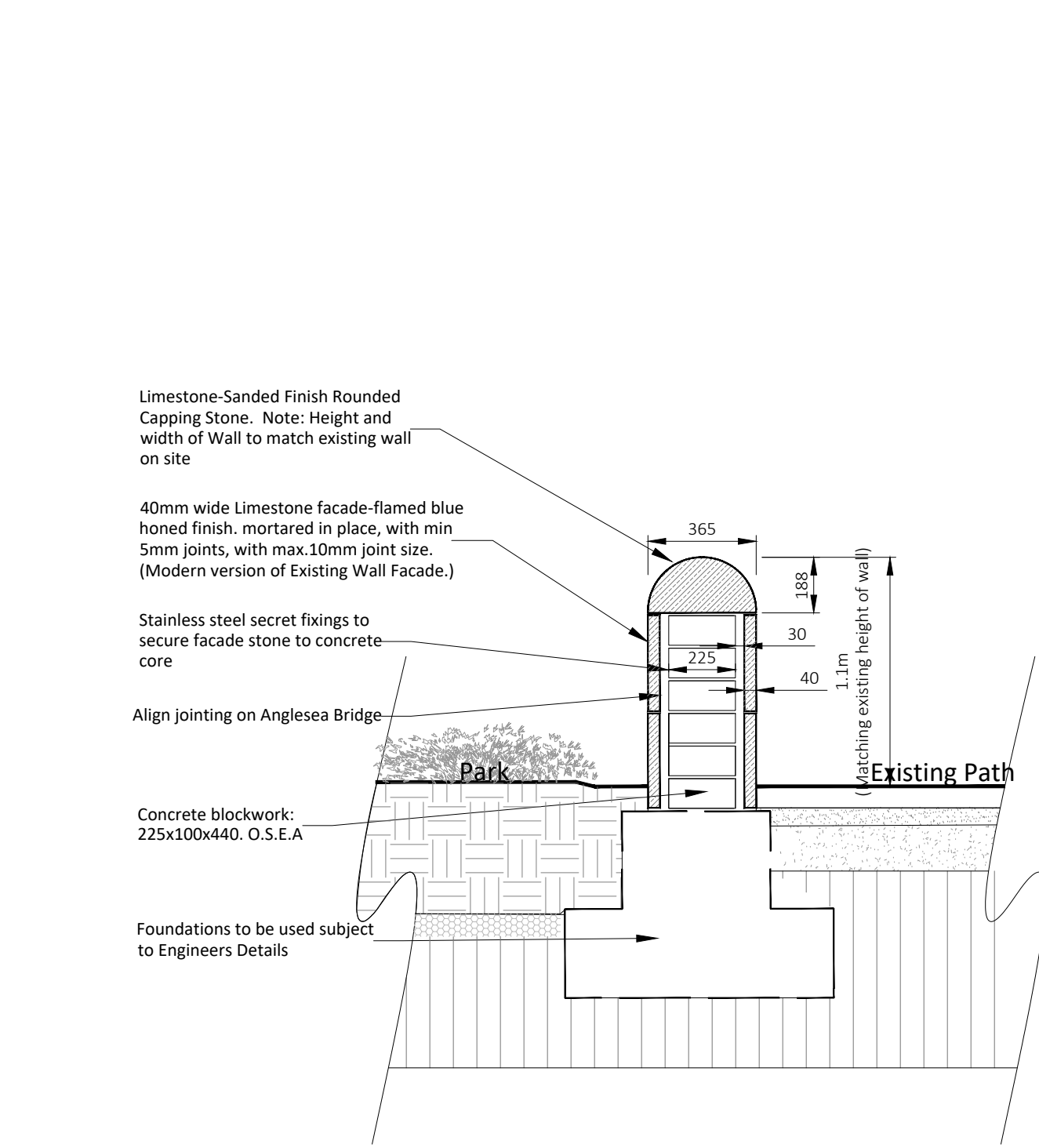
Plant drought tolerant grass seed @50sq.m. into these pockets, such as

- 50% Perennial Ryegrass
- 20% Slender Creeping Red Fescue
- 25% Strong Creeping Red Fescue
- 5% Browntop Bent, or equivalent.



D8 'CELLPAVE HD' REINFORCED GRASS TYPICAL DETAIL

SCALE 1:20



D9 PROPOSED STUB WALL-LIMESTONE FACADE DETAIL

SCALE 1:20

PAVING NOTES:

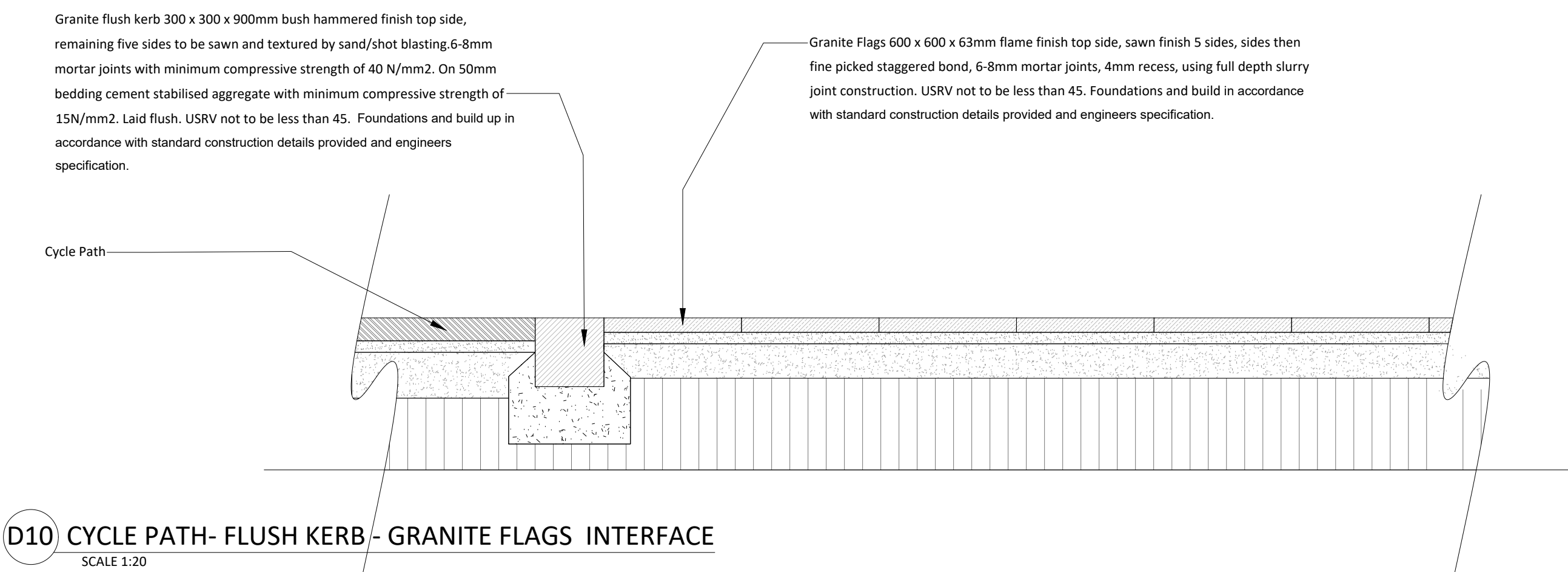
- Paving to be laid parallel to existing pathway/road.
- In a Stretcher Bond Pattern with Staggered Joints.
- Paving to have 6-8mm Mortar Joints

Paving Materials:

- Silver Granite Flags 600 x 600 x 63mm flame finish top side. Refer to D10 & D11
- Silver Granite Raised Kerb with Bush Hammered Finish 200 x 300 x 900mm with 30mm Bullnose Edge. Refer to D11.
- Silver Granite Flush Kerb. Bush Hammered Top side. Remaining sides to be sawn and sand blasted. Size 300 x 300 x 900mm. Refer to D10

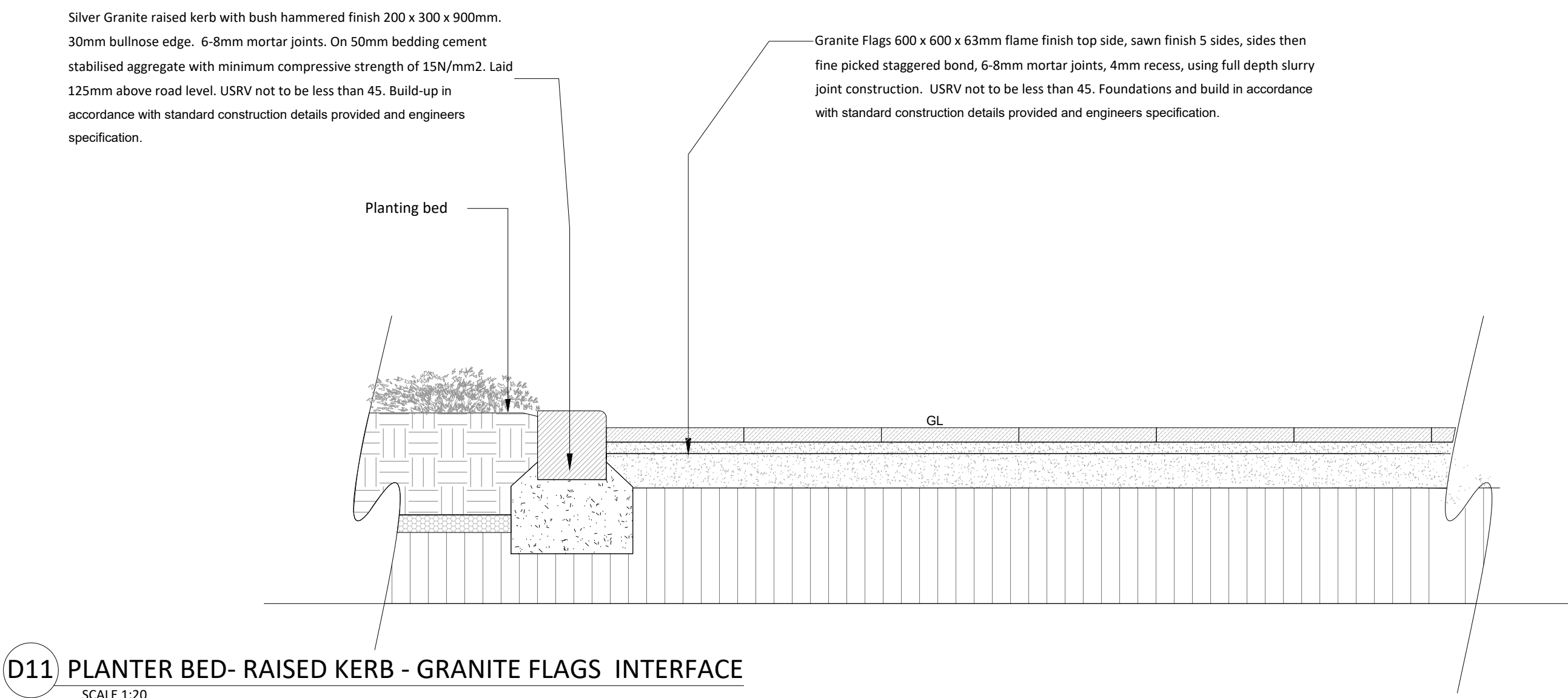
PROPOSED GATE NOTES:

- Material to be finished in selected colour over hot dipped galvanised finish. Acid pickled, followed by galvanising in accordance with BS729
- All material to be Galvanised to EN1501461 and Powder coated to Anthracite Grey Powder Coated Colour. RAL 7016m
- All gate components to manufacturer's detail and engineer's approvals
- All fixings,hinges, and opening mechanism to manufacturer's detail



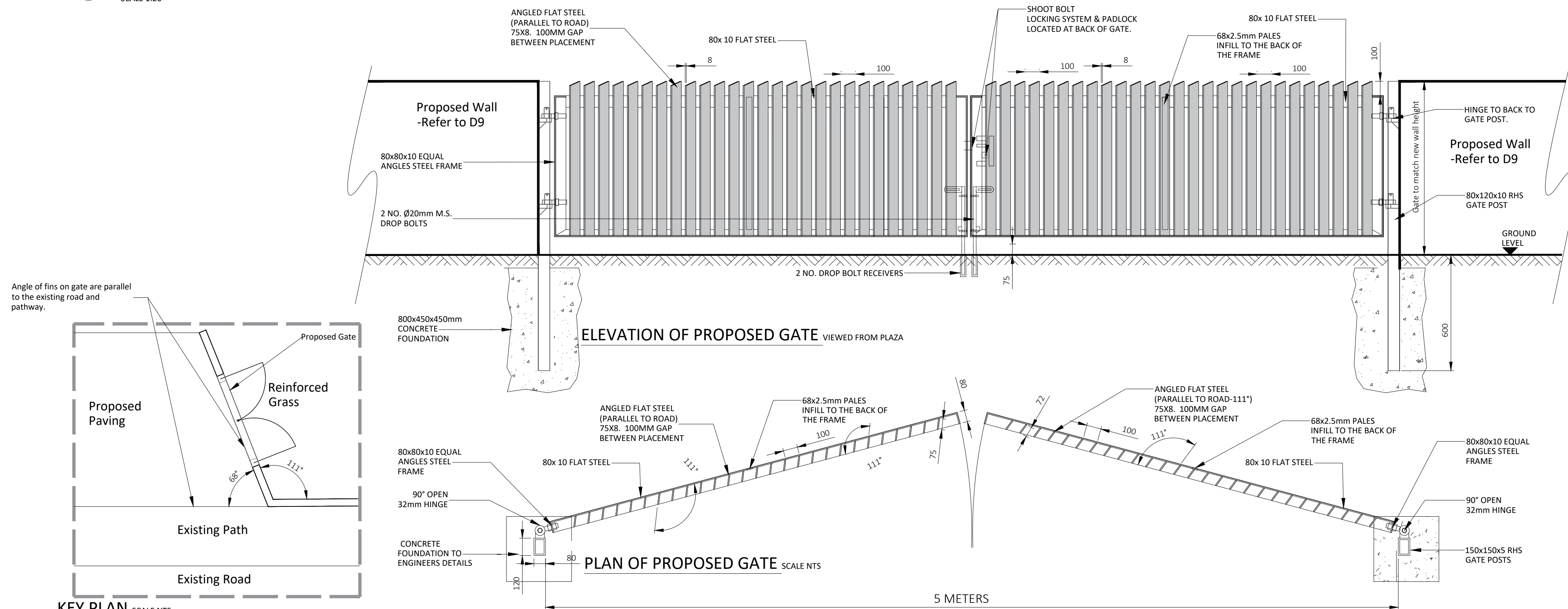
D10 CYCLE PATH- FLUSH KERB - GRANITE FLAGS INTERFACE

SCALE 1:20



D11 PLANTER BED- RAISED KERB - GRANITE FLAGS INTERFACE

SCALE 1:20



D12 PROPOSED GATE DETAILS

06	20/09/19	EMD	JK	Revised Tender Package
05	22/08/19	EMD	JK	Revised Tender Package
04	19/08/19	EMD	JK	Revised Tender Package
03	05/06/19	EMD	JK	Tender Layout
02	04/05/19	EMD	JK	Draft Tender Layout
01	Dec-2018	CF	TB	Revised to Updated Layout
Rev	Date	Drawn	Checked	Description



Project Ireland 2040
Building Ireland's Future

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Project	Dodder Greenway Donnybrook	Project No.	5911
Disc	Paving Details	Drawing No.	416 Rev. 07
Scales	1:20 @ A1	Status	Tender
Date	24/09/2019	Drn.	EMD
Chd.	DB	Passed	
mail@bradyshipmanmartin.com Canal House, Canal Road, Dublin 6 Tel: +353(0)1 2081900			

BSM

Est. 1968