## Armada Way

Tree Survey Update 2024 Report No 67CA09-YGS-ZZ-RP-J-012


Date: 12 ${ }^{\text {th }}$ January 2024

ENVIRONMENTAL
CONSULTANTS

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Issue Schedule

| Issue <br> No | Date | Comments | By | Verified | Approved |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 01 | 12.01 .24 | First Issue | J Kiely <br> MICFor, EArborA, <br> CEnv | Adam King, BAA(Hons), MA, <br> CMLI, Cert Arb. | Adam King, BAA(Hons, MA, CMLI, |
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## APPENDIX A- Abbreviated Tree Survey Schedule

| Ref | Common Name | Scientific Name | Variety | $\begin{aligned} & \mathrm{Ht} \\ & (\mathrm{~m}) \end{aligned}$ | $\begin{aligned} & \text { Stem Diam } \\ & (\mathrm{mm}) \end{aligned}$ | Multiple Stem diam (mm) | RPA | Crown Spread |  |  |  | Crown Cleara nce (m) | Lowest Branch (m) | Lowest <br> Branch Dir | Life Stage | General Observations | Prelimina ry Works Recomm endation s | Rem. Contrib. | Retention Category | Retained (RET) / Moved (TRANS) for the Developme nt |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  | N | E | S | w |  |  |  |  |  |  |  |  |  |
| T001 | Cockspur Thorn | Crataegus crusgalli |  | 6 | 300 |  | Radius: 3.6 m . Area: 41 sq m | $\begin{gathered} 3 . \\ 5 \end{gathered}$ | 3 | 2 | 3 | 2.5 | 2 | N | Mature | Previous pruning wounds back to stem branch collars. Typically with peripheral asymmetrical woundwood development. Cavities forming, likely localised to collars. Limited long-term retention due to a lack of durable heartwood. |  | 20+Years | B2 | RET |
| T002 | Cockspur Thorn | Crataegus crusgalli |  | 4 | 220 |  | Radius: 2.6 m . Area: 21 sq m . | 3 | 3 | 3 | 3 | 2 | 2 | w | Semi Mature | Contact wounding to base south, likely mechanical. Good peripheral woundwood formation. Likely to occlude. Previous pruning wounds with peripheral woundwood. Cavity forming in collar south at 2 m , likely localised, considered minor. |  | 10+ Years | C1,2 | RET |
| T003 | Wild Cherry | Prunus avium |  | 6 | 310 |  | Radius: 3.7 m . Area: 43 sq m | 5 | 5 | 5 | 4 | 2 | 3 | S | Early Mature | Tree circa 1 m north of planter edging. Likely to cause future damage to planter edge stones through growth of surface rooting. Species propensity to form surface roots. Previous crown raising works, wounds flush to main stem, asymmetrical woundwood. Surface rooting around base to 1 m , typical of species. |  | 20+Years | B1,2 | RET |
| T004 | Wild Cherry | Prunus avium |  | 5 | 250 |  | Radius: 3.0 m . Area: 28 sq m | 6 | 4 | 5 | 5 | 1.5 | 2 | N | Semi Mature | High crown sparsity in crown east, poor internal bud/leaf proliferation. Potential cause root disturbance limiting water uptake reducing leaf volume east. Twig dieback in crown. Pruning wounds in crown with good woundwood. Base 1 m from planter edge. Likely to cause future structural damage. |  | 10+Years | C1,2 | RET |

ENVIRONMENTAL


| Ref | Common Name | Scientific Name | Variety | $\begin{aligned} & \mathrm{Ht} \\ & (\mathrm{~m}) \end{aligned}$ | $\begin{aligned} & \text { Stem Diam } \\ & (\mathrm{mm}) \end{aligned}$ | Multiple Stem diam (mm) | RPA | Crown Spread |  |  |  | $\begin{gathered} \text { Crown } \\ \text { Cleara } \\ \text { nce } \\ (m) \end{gathered}$ | Lowest Branch (m) | Lowest <br> Branch Dir | $\begin{aligned} & \text { Life } \\ & \text { Stage } \end{aligned}$ | General Observations | Prelimina ry Works Recomm endation s | Rem. Contrib. | Retention Category | Retained (RET)/ Moved (TRANS) for the Developme nt |
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|  |  |  |  |  |  |  |  | N | E | S | w |  |  |  |  |  |  |  |  |  |
| T045 | Whitebeam | Sorbus aria |  | 7 | 310 |  | Radius: 3.7 m . Area: 43 sq m . | 4 | 4 | 3 | 4 | 2.5 | 2 | E | Early <br> Mature | Codominant in canopy. <br> Proliferation of secondary limbs from circa 2.5 m , typical of cultivar. <br> Ivy on stem limiting visibility. Minor bark inclusions visible. |  | $20+$ Years | B2 | TRANS |
| T075 | Common Laburnum | Laburnum anagyroides |  | 4 | 210 |  | Radius: 2.5 m . Area: 20 sq m . | 4 | 1 | $\begin{aligned} & 0 . \\ & 5 \end{aligned}$ | 1 | 1.5 | 1.5 | S | Early <br> Mature | Lean north, corrective growth of third order limbs south. <br> Significant structural suppression. Previous limb removal at base with decay visible, peripheral woundwood with good adaptive growth. Wound to upper side of second order limb north at 2 m with decay visible, low risk. |  | <10 Years | u | RET |
| T076 | Common Laburnum | Laburnum anagyroides |  | 4 | 170 |  | Radius: 2.0 m . Area: 13 sq m . | 6 | 1 | 1 | 1 | 2 | 1.5 | N | Semi <br> Mature | Significant lean north, upper crown corrective growth. Likely previous codominant stem removal at base south. Decay of collar, peripheral woundwood, adaptive swelling. |  | <10 Years | u | RET |
| T077 | Common Laburnum | Laburnum anagyroides |  | 3 | 120 |  | Radius: 1.4 m . <br> Area: 6 sq m . | $\begin{aligned} & 0 . \\ & 5 \end{aligned}$ | 1 | 4 | 1 | 2 | 2.5 | S | Semi Mature | Significant lean south with corrective growth from circa 1 m . Previous significant stem removal at base west, decay of collar with peripheral woundwood and adaptive swelling present. Pruning wounds with minor cavities. Of minor landscape benefit. |  | <10 Years | U | RET |
| T078 | Norway Maple | Acer platanoides | $\begin{gathered} \text { Crimson } \\ \text { King } \end{gathered}$ | 14 | 420 |  | Radius: 4.9 m . Area: 75 sq m . | 5 | 5 | 5 | 5 | 6 | 6 | SW | Mature | Dominant. High landscape value. Considered of significant future potential. |  | 40+Years | A1,2 | RET |
| T079 | Horse Chestnut | Aesculus hippocastanum |  | 15 | 520 |  | Radius: 6.2 m . Area: 121 sq m. | 6 | 5 | 6 | 3 | 4 | 3.5 | N | Mature | Included bark union from circa <br> 3 m . West with significant included bark and no adaptive growth. East with adaptive growth, included bark on upper side of union. Crown in contact with building interface east. Requires ongoing cyclical management. Base circa 250 mm west of low height retaining wall. | Prune to clear building interface by 2 m , nearest lateral branch or branch collar (<3 months) | 10+Years | C1,2 | RET |


| Ref | Common Name | Scientific Name | Variety | $\begin{gathered} \mathrm{Ht} \\ (\mathrm{~m}) \end{gathered}$ | $\begin{aligned} & \text { Stem Diam } \\ & (\mathrm{mm}) \end{aligned}$ | Multiple Stem diam (mm) | RPA | Crown Spread |  |  |  | $\begin{aligned} & \text { Crown } \\ & \text { Cleara } \\ & \text { nce } \\ & (\mathrm{m}) \end{aligned}$ | Lowest <br> Branch (m) | Lowest <br> Branch Dir | Life Stage | General Observations | Prelimina ry Works Recomm endation s | Rem. Contrib | Retention Category | Retained (RET) / Moved (TRANS) for the Developme nt |
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|  |  |  |  |  |  |  |  | N | E | S | w |  |  |  |  |  |  |  |  |  |
| T080 | Horse Chestrut | Aesculus hippocastanum |  | 15 | 500 |  | Radius: 6.0 m . Area: 113 sq m. | 5 | 5 | 3 | 5 | 4 | 2 | s | Mature | Likely historic pollard or previously topped. Secondary stems with high aspect ratios, circa $1: 3$, arising at 2 m . Crown adjacent to building interface. Will likely require cyclical pruning to manage back from building. Base circa 300 mm west of low height wall, damage to top dressing visible. |  | $20+$ Years | B1,2 | RET |
| T081 | Single Leafed Ash | Fraxinus excelsior f. diversifolia |  | 15 | 390 |  | Radius: 4.7 m . Area: 69 sq m . | 2 | 6 | 8 | 7 | 3 | 2 | w | Mature | Codominant. Suppressing cherry south. Crown 1 m from building interface east. Major deadwood in central crown over amenity grass. | Remove deadwoo $\underset{(<1}{d}$ (<1 month) | $20+$ Years | B1,2 | RET |
| T082 | Flowering Cherry | Prunus sp. |  | 5 | 330 |  | Radius: 4.0 m . Area: 50 sq m . | 3 | 4 | 3 | 3 | 3 | 2 | E | Mature | Structurally suppressed by ash north. Secondary stems arising from circa 1.8 m with minor bark inclusions, normal for species. <br> Previously crown reduced. Dysfunction at pruning points, no woundwood visible. Moderate deadwood in crown over amenity grass planter, low risk. Lean of main stem east, corrective growth of secondary limbs. Crown regrowth extending east towards building. Will require pruning in future. |  | $10+$ Years | C1,2 | RET |
| T083 | Horse Chestrut | Aesculus hippocastanum |  | 16 | 550 |  | Radius: 6.5 m . Area: 133 sq m. | 6 | 6 | 6 | 6 | 5 | 3 | s | Mature | Bare earth in 200mm radial square from base. Tarmac or similar beyond. Likely historic lapsed pollard. Proliferation of secondary stems from circa 2.5 m . Minor bark inclusions. Crown apices east in contact with building interface. Previously pruned back. Pruning wounds to main stem south at circa $3 m$, significant wounds with asymmetrical woundwood formation or no woundwoood. |  | $20+$ Years | B1,2 | RET |



| Ref | Common Name | Scientific Name | Variety | $\begin{gathered} \mathrm{Ht} \\ (\mathrm{~m}) \end{gathered}$ | Stem Diam (mm) | Multiple Stem diam (mm) | RPA | Crown Spread |  |  |  | CrownClearanne( $m$ ) | Lowest Branch (m) | Lowest <br> Branch Dir | $\begin{aligned} & \text { Life } \\ & \text { Stage } \end{aligned}$ | General Observations | Prelimina ry Works Recomm endation s | Rem. Contrib. | Retention Category | Retained (RET) / Moved (TRANS) for the Developme nt |
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|  |  |  |  |  |  |  |  | N | E | S | w |  |  |  |  |  |  |  |  |  |
| T119 | Japanese Maple | Acer palmatum |  | 4 |  | $\begin{gathered} 80,80,60,50, \\ 50,130,120, \\ 110 \end{gathered}$ | Radius: 3.1 m . Area: 30 sq m . | 3 | 2 | 3 | 3 | 2.5 | 0.5 | SE | Early Mature | Base circa 300 mm east of retaining wall, no damage visible. Multistemmed form with minor bark inclusions, typical of species. <br> Specimen considered replaceable within short timeframe. |  | $10+$ Years | C1 | TRANS |
| T120 | Japanese Maple | Acer palmatum |  | 4 |  | 70, 70, 100, 80 | Radius: 1.9 m . Area: 11 sq m. | 3 | 2 | 3 | $\begin{aligned} & 0 . \\ & 5 \end{aligned}$ | 2.5 | 0.5 | s | Semi Mature | Multistemmed with included bark, typical of species. Multiple contact wounds to stems, good woundwood formation. Likely to occlude. Specimen considered replaceable. |  | 10+Years | C1 | TRANS |
| T121 | Sorbus | Sorbus sp. |  | 6 | 270 |  | Radius: 3.2 m . Area: 32 sq m . | 3 | 3 | 2 | 3 | 3 | 2 | w | $\begin{gathered} \text { Semi } \\ \text { Mature } \end{gathered}$ | Proliferation of secondary stems from 2m, typical of cultivar. Minor bark inclusions. Wound to stem at 1 m east almost fully occluded. Slight lean northwest with crown corrective growth. |  | $20+$ Years | B2 | RET |
| T122 | Sorbus | Sorbus thuringiaca |  | 6 | 380 |  | Radius: 4.6 m . Area: 66 sq m . | 3 | 3 | 3 | 3 | 3 | 2 | E | Mature | Proliferation of secondary stems from 2m, typical of cultivar. Minor bark inclusions. Helical rib formation, minor |  | $20+$ Years | B2 | RET |
| T125 | Silver Maple | Acer saccharinum |  | 9 | 330 |  | Radius: 4.0 m . Area: 50 sq m . | 4 | 4 | 2 | 4 | 4 | 3 | E | Early Mature | Bare earth square 200 mm radially from base with significant surface rooting/buttressing. Previously reduced, with further reduction pruning 1 m above. Internodal. Shopping basket in crown Significant wound north at circa 2 m , likely previous secondary limb union failure. Good woundwood, partial occlusion. Significant pruning wound flush to main stem at 2 m north, circa 200 mm in diameter, asymmetrical woundwood. |  | $20+$ Years | C1 | TRANS |


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|  |  |  |  |  |  |  |  | N | E | S | w |  |  |  |  |  |  |  |  |  |
| T138 | Sweet Gum | Liquidambar styraciflua |  | $\begin{aligned} & 11 \\ & \text { (9) } \end{aligned}$ | $\begin{gathered} 225 \\ (220) \end{gathered}$ |  | Radius: 2.6 m . Area: 21 sq m . | 3 | 3 | 3 | 3 | 3 | 3 | S | Semi Mature | Within likely adjustable tree pit. Significant future potential. Appropriate species selection and location of establishment. Wiring in crown. |  | $20+$ Years | B1,2 | RET |
| T139 | Sweet Gum | Liquidambar styraciflua |  | $\begin{aligned} & 11 \\ & \text { (9) } \end{aligned}$ | $\begin{gathered} 235 \\ (220) \end{gathered}$ |  | Radius: 2.6 m . Area: 21 sq m . | 3 | 3 | 3 | 3 | 3 | 3 | S | Semi Mature | Within likely adjustable tree pit. Significant future potential. Appropriate species selection and location of establishment. Wiring in crown. |  | $20+$ Years | B1,2 | RET |
| T140 | Sweet Gum | Liquidambar styraciflua |  | $\begin{aligned} & 11 \\ & (9) \end{aligned}$ | $\begin{gathered} 205 \\ (200) \end{gathered}$ |  | Radius: 2.4 m . Area: 18 sq m . | 3 | 3 | 3 | 3 | 3 | 3 | NW | Semi Mature | Within likely adjustable tree pit. Significant future potential. Appropriate species selection and location of establishment. Wiring in crown. |  | $20+$ Years | B1,2 | RET |
| T141 | Sweet Gum | Liquidambar styraciflua |  | $\begin{aligned} & 11 \\ & (9) \end{aligned}$ | $\begin{gathered} 230 \\ (210) \end{gathered}$ |  | Radius: 2.5 m . Area: 20 sq m . | 3 | 3 | 3 | 3 | 3 | 3 | NE | $\begin{gathered} \text { Semi } \\ \text { Mature } \end{gathered}$ | Within likely adjustable tree pit. Significant future potential. Appropriate species selection and location of establishment. Wiring in crown. Pruning wounds to main stem almost fully occluded. Lifting of tree pit grate east. |  | $20+$ Years | B1,2 | RET |
| T142 | Sweet Gum | Liquidambar styraciflua |  | $\begin{aligned} & 10 \\ & (8) \end{aligned}$ | 210 |  | Radius: 2.5 m . Area: 20 sq m . | 3 | 2 | 3 | 3 | 3 | 3 | w | $\begin{gathered} \text { Semi } \\ \text { Mature } \end{gathered}$ | Within likely adjustable tree pit. Significant future potential. Appropriate species selection and location of establishment. Wiring in crown. Stem base circa 10 mm from tree pit grate edge adjust. | Increase size of tree pit opening (<1 month) | 20+ Years | B1,2 | RET |
| T143 | Sweet Gum | Liquidambar styraciflua |  | $\begin{aligned} & 10 \\ & (8) \end{aligned}$ | $\begin{gathered} 210 \\ (200) \end{gathered}$ |  | Radius: 2.4 m . Area: 18 sq m | 3 | 2 | 3 | 3 | 3 | 3 | w | Semi Mature | Within likely adjustable tree pit. Significant future potential. Appropriate species selection and location of establishment. Wiring in crown. Pruning wounds to main stem, good woundwood, partially occluded. Stem base circa 10 mm from tree pit grate edge - adjust. Partial lifting of tree pit grate east. | Increase size of tree pit opening (<1 month) | 20+Years | B1,2 | RET |


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|  |  |  |  |  |  |  |  | N | E | S | w |  |  |  |  |  |  |  |  |  |
| T144 | Sweet Gum | Liquidambar styraciflua |  | $\begin{aligned} & 10 \\ & (7) \end{aligned}$ | $\begin{gathered} 205 \\ (200) \end{gathered}$ |  | Radius: 2.4 m . Area: 18 sq m . | 3 | 2 | 2 | 3 | 3 | 3 | sw | Semi Mature | Within likely adjustable tree pit. Significant future potential. Appropriate species selection and location of establishment. Wiring in crown. Pruning wounds to main stem partially occluded. Lifting of tree pit grate around base. | Adjust tree pit grate (<1 month) | $20+$ Years | B1,2 | RET |
| T145 | Sweet Gum | Liquidambar styraciflua |  | $\begin{gathered} 9 \\ (7) \end{gathered}$ | $\begin{gathered} 185 \\ (180) \end{gathered}$ |  | Radius: 2.2 m . Area: 15 sq m . | 2 | 3 | 2 | 2 | 3 | 3 | w | Semi Mature | Within likely adjustable tree pit. Significant future potential. Appropriate species selection and location of establishment. Wiring in crown. Pruning wounds to main stem almost fully occluded. |  | $20+$ Years | B1,2 | RET |
| T146 | Sweet Gum | Liquidambar styraciflua |  | $\begin{aligned} & 9.5 \\ & (7) \end{aligned}$ | $\begin{gathered} 215 \\ (200) \end{gathered}$ |  | Radius: 2.4 m . Area: 18 sq m . | 3 | 3 | 2 | 2 | 3.5 | 3 | NW | Semi Mature | Within likely adjustable tree pit. Significant future potential. Appropriate species selection and location of establishment. Wiring in crown. Pruning wounds to main stem partially occluded. |  | $20+$ Years | B1,2 | RET |
| T147 | Sweet Gum | Liquidambar styraciflua |  | $\begin{aligned} & 10 \\ & (8) \end{aligned}$ | $\begin{gathered} 245 \\ (230) \end{gathered}$ |  | Radius: 2.8 m . Area: 25 sq m . | 3 | 3 | 3 | 3 | 3 | 3 | N | Semi Mature | Within likely adjustable tree pit. Significant future potential. Appropriate species selection and location of establishment. Wiring in crown. Pruning wounds to main stem partially occluded. Significant lifting of tree pit grate. | Ameliorat <br> e tree pit grate (<1 month) | $20+$ Years | B1,2 | RET |
| T148 | Sweet Gum | Liquidambar styraciflua |  | $\begin{gathered} 10.5 \\ (8) \end{gathered}$ | 210 |  | Radius: 2.5 m . Area: 20 sq m . | 3 | 2 | 3 | 3 | 3.5 | 3.5 | NE | Semi Mature | Within likely adjustable tree pit. Significant future potential. Appropriate species selection and location of establishment. Wiring in crown. Pruning wounds to main stem partially occluded. Lifting of tree pit grate. | Ameliorat e tree pit grate month | $20+$ Years | B1,2 | RET |
| T149 | Sweet Gum | Liquidambar styraciflua |  | $\begin{aligned} & 9.5 \\ & (8) \end{aligned}$ | 210 |  | Radius: 2.5 m . Area: 20 sq m . | 3 | 3 | 3 | 3 | 4 | 4 | E | Semi Mature | Within likely adjustable tree pit. Significant future potential. Appropriate species selection and location of establishment. Wiring in crown. Pruning wounds to main stem partially occluded. Very minor lifting of tree pit grate. | Ameliorat <br> e tree pit grate (< 12 <br> months) | $20+$ Years | B1,2 | RET |


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|  |  |  |  |  |  |  |  | N | E | S | w |  |  |  |  |  |  |  |  |  |
| T150 | Sweet Gum | Liquidambar styraciflua |  | $\begin{gathered} 12.5 \\ 10 \end{gathered}$ | $\begin{gathered} 230 \\ (220) \end{gathered}$ |  | Radius: 2.6 m . Area: 21 sq m | 3 | 1 | 3 | 3 | 4 | 4 | s | Semi <br> Mature | Within likely adjustable tree pit. Significant future potential. Appropriate species selection and location of establishment. Wiring in crown. Pruning wounds to main stem partially occluded. Lifting of tree pit grate. Minor deadwood in crown, normal volume, low risk. | Ameliorat <br> e tree pit grate (<1 month) | 20+Years | B1,2 | RET |
| T151 | Sweet Gum | Liquidambar styraciflua |  | $\begin{aligned} & 11 \\ & (9) \end{aligned}$ | $\begin{gathered} 240 \\ (230) \end{gathered}$ |  | Radius: 2.8 m . Area: 25 sq m . | 3 | 2 | 3 | 3 | 4 | 4 | s | Semi Mature | Within likely adjustable tree pit. Significant future potential. Appropriate species selection and location of establishment. Wiring in crown. Pruning wounds to main stem with asymmetrical peripheral woundwood. |  | $20+$ Years | B1,2 | RET |
| T152 | Sweet Gum | Liquidambar styraciflua |  | $\begin{aligned} & 11.5 \\ & (10) \end{aligned}$ | $\begin{gathered} 290 \\ (280) \end{gathered}$ |  | Radius: 3.4 m . Area: 36 sq m | 3 | 3 | 3 | 3 | 4 | 4 | s | Semi Mature | Within likely adjustable tree pit. Significant future potential. Appropriate species selection and location of establishment. Wiring in crown. Pruning wounds to main stem partially occluded. Lifting of tree pit grate. Stem in immediate contact with tree pit grate edge. | Ameliorat <br> e tree pit grate (<1 month) | $20+$ Years | B1,2 | RET |
| T153 | Sweet Gum | Liquidambar styraciflua |  | $\begin{gathered} 11.5 \\ (9) \end{gathered}$ | $\begin{gathered} 225 \\ (220) \end{gathered}$ |  | Radius: 2.6 m . Area: 21 sq m | 3 | 3 | 3 | 3 | 3 | 3.5 | s | Semi Mature | Within likely adjustable tree pit. Significant future potential. Appropriate species selection and location of establishment. Wiring in crown. Pruning wounds to main stem partially occluded. Significant lifting of tree pit grate. | Ameliorat e tree pit grate (<1 month) | 20+Years | B1,2 | RET |






