# Appendix J
# Wetlands Summary and Potential Wetland/Surface Water Impact Exhibits

APPENDIX J

# Wetlands Summary and Potential Wetland/Surface Water Impact Exhibits

TABLE J-1
Summary of the Wetlands in the Project Vicinity and their Characteristics

| Wetland Site Number | Wetland Type (Plant Community/ Cover Type) | NWI Code[a] | Dominant Plant Species[b] | Mean C-Value | FQI | Percent Adventive | Soil Type/NRCS Hydric Soil Indicator(s)[c] | Hydrologic Indicators (Primary/Secondary) | Wetland Size (ac)[d] | Wetland Functions |
|---|---|---|---|---|---|---|---|---|---|---|
| 3 | marsh | none | narrow-leaved cattail | 2.2 | 7.0 | 50.0 | undetermined/ A11, F2 | high water table/ drainage patterns, geomorphic position, FAC-Neutral Test | NA (c)<br>0.36 (t) | surface water storage |
| 6 | marsh | PEMC | narrow-leaved cattail | 2.3 | 11.6 | 34.1 | Ashkum silty clay loam/A12 | drift deposits, high water table/ drainage patterns, geomorphic position, FAC-Neutral Test | 0.00 (c)<br>2.97 (t) | surface water storage, fair quality wildlife habitat |
| 7 | marsh | POWGx | spike rush, Dudley's rush, purple loosestrife | 2.8 | 11.8 | 32.1 | undetermined/ F6 | sparsely vegetated concave surface/ surface soil cracks, geomorphic position, FAC-Neutral Test | NA (c)<br>0.13 (t) | surface water storage, fair quality wildlife habitat |
| 8 | pond | POWGx | comb pondweed, narrow-leaved cattail | 2.4 | 7.8 | 27.8 | undetermined/ A11, F2 | surface water, inundation visible on aerial imagery, true aquatic plants/ geomorphic position, FAC-Neutral Test | NA (c)<br>1.16 (t) | surface water storage, fair quality wildlife habitat |

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|---|---|---|---|---|---|---|---|---|---|---|
| 9 | marsh | none | red top, alkali bulrush, spike rush, seaside goldenrod | 2.5<br>8.4 | | 40.0 | undetermined/ A11, F3 | sediment deposits, sparsely vegetated concave surface/ surface soil cracks, geomorphic position, FAC-Neutral Test | NA (c)<br>0.21 (t) | surface water storage |
| 12 | forested depression | none | box elder, common buckthorn, ground ivy, poison ivy, riverbank grape | 2.1 | 6.3 | 47.1 | Peotone silty clay loam/A12 | no primary indicators/ crayfish burrows, geomorphic position, FAC-Neutral Test | NA (c)<br>0.54 (*) | surface water storage, wildlife habitat |
| 14 | floodplain forest | none | box elder, common buckthorn, garlic mustard, jewelweed, purple loosestrife, reed canary grass | 1.8 | 8.5 | 36.1 | Peotone silty clay loam/A12 | sediment deposits/ drainage patterns, geomorphic position, FAC-Neutral Test | NA (c)<br>0.37 (*) | surface water storage, wildlife habitat |
| 15 | wet shrubland | none | pale dogwood, sandbar willow, cut-leaved teasel, reed canary grass, poison ivy | 2.1<br>8.0 | | 12.5 | undetermined/ A11, F3 | water-stained leaves/ crayfish burrows, geomorphic position, FAC-Neutral Test | NA (c)<br>0.06 (t) | surface water storage, wildlife habitat |
| 21 | marsh | none | narrow-leaved cattail | 1.8<br>4.0 | | 58.3 | undetermined/ A12, F6, F7 | drift deposits, water-stained leaves/ drainage patterns, geomorphic position, FAC-Neutral Test | 0.01 (c)<br>0.03 (t) | surface water storage |

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|---|---|---|---|---|---|---|---|---|---|---|
| 25 | marsh | none | narrow-leaved cattail | 2.1 | 8.3 | 37.5 | Ashkum silty clay loam/A12 | surface water, true aquatic plants/ geomorphic position, FAC-Neutral Test | NA (c)<br>0.73 (*) | wildlife habitat, surface water storage |
| 27 | marsh | none | inland salt grass, common reed, salt spurrey, narrow-leaved cattail | 2.1 | 8.0 | 42.3 | Peotone silty clay loam/ A12 | true aquatic plants/ surface soil cracks, geomorphic position, FAC-Neutral Test | 0.74 (c),(t) | surface water storage |
| 28 | marsh/pond | none | spike rush, comb pondweed, narrow-leaved cattail | 2.4 | 10.1 | 35.7 | undetermined/ F7 | surface water, inundation visible on aerial imagery, true aquatic plants/ geomorphic position, FAC-Neutral Test | 0.29 (c)<br>1.85 (t) | surface water storage |
| 34 | forested depression | PSS1C | eastern cottonwood, common buckthorn, sandbar willow, purple loosestrife, reed canary grass, Canada goldenrod, narrow-leaved cattail | 2.1 | 7.5 | 31.6 | Ashkum silty clay loam/ A12 | surface water, drift deposits, algal mat or crust, sparsely vegetated concave surface, water-stained leaves/ geomorphic position, crayfish burrows, FAC-Neutral Test | NA (c)<br>1.70 (t) | wildlife habitat, surface water storage |

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|---|---|---|---|---|---|---|---|---|---|---|
| 35 | marsh | none | spike rush, common reed | 1.8 | 3.5 | 60.0 | undetermined/ A11, F3 | saturation, sparsely vegetated concave surface/ surface soil cracks, drainage patterns, geomorphic position, FAC-Neutral Test | NA (c)<br>0.12 (t) | surface water storage |
| 36 | marsh | none | spike rush, great bulrush, seaside goldenrod | 2.8 | 6.3 | 50.0 | undetermined/ F3 | surface water, algal mat or crust/ geomorphic position, FAC-Neutral Test | NA (c)<br>0.26 (t) | surface water storage |
| 40 | marsh | none | red top, spike rush, narrow-leaved cattail | 1.4 | 3.1 | 37.5 | undetermined/ A11, F3 | surface water, sparsely vegetated concave surface/ geomorphic position, FAC-Neutral Test | NA (c)<br>0.02 (t) | surface water storage |
| 41 | wet meadow | none | reed canary grass | 2.1 | 6.0 | 42.9 | Ashkum silty clay loam/ A12 | water-stained leaves/ drainage patterns, geomorphic position, FAC-Neutral Test | NA (c)<br>0.16 (t) | surface water storage |
| 42 | wet shrubland | none | box elder, common buckthorn, grassleaf goldenrod, reed canary grass | 2.1 | 10.4 | 20.6 | Ashkum silty clay loam/ A12 | drift deposits, sediment deposits, sparsely vegetated concave surface, algal mat or crust/ geomorphic position, FAC-Neutral Test | 0.20 (c)<br>0.26 (t) | surface water storage |
| 43 | marsh | none | common reed, narrow-leaved cattail | 1.0 | 1.0 | 80.0 | water/ inaccessible; hydric soil assumed | surface water/ geomorphic position, FAC-Neutral Test | NA (c)<br>0.51 (t) | surface water storage |

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|---|---|---|---|---|---|---|---|---|---|---|
| 46 | marsh | none | narrow-leaved cattail | 1.9 | 6.6 | 50.0 | undetermined/ A12, F6, F7 | algal mat or crust, high water table/ drainage patterns, geomorphic position, FAC-Neutral Test | NA (c)<br>0.30 (t) | surface water storage |
| 48 | marsh | none | common reed, seaside goldenrod, narrow-leaved cattail | 2.2 | 9.2 | 28.0 | Ashkum silty clay loam/ A12 | high water table/ geomorphic position, FAC-Neutral Test | NA (c)<br>1.22 (t) | wildlife habitat, surface water storage |
| 49 | wet shrubland/ marsh | none | sandbar willow, purple loosestrife, reed canary grass, narrow-leaved cattail | 2.0 | 10.6 | 39.6 | Houghton muck/ A1 | sediment deposits, drift deposits/ drainage patterns, geomorphic position, FAC-Neutral Test | 1.94 (c),(t) | surface water storage, wildlife habitat |
| 50 | marsh | none | spike rush, common reed, narrow-leaved cattail | 2.4 | 10.3 | 32.1 | Houghton muck/ A1 | surface water, sediment deposits, drift deposits, algal mat or crust/ drainage patterns, geomorphic position, FAC-Neutral Test | 0.97 (c),(t) | surface water storage, wildlife habitat |
| 52 | wet shrubland | none | sandbar willow, purple loosestrife, narrow-leaved cattail | 2.4 | 9.7 | 22.7 | undetermined/ A11, F3 | algal mat or crust/ geomorphic position, FAC-Neutral Test | 0.25 (c),(t) | surface water storage, wildlife habitat |
| 53 | marsh | none | common reed | 2.1 | 8.7 | 32.0 | undetermined/ A11, F3 | surface water, true aquatic plants/ geomorphic position, FAC-Neutral Test | 0.43 (c),(t) | surface water storage, wildlife habitat |

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|---|---|---|---|---|---|---|---|---|---|---|
| 54 | forested depression | none | silver maple, pale dogwood | 2.6 | 8.9 | 20.0 | undetermined/ A11, F3 | surface water, water marks, drift deposits, sparsely vegetated concave surface, water-stained leaves/ geomorphic position, FAC-Neutral Test | 0.25 (c),(t) | surface water storage, wildlife habitat |
| 55 | wet meadow | none | Dudley's rush, reed canary grass | 2.6 | 9.4 | 40.9 | Ashkum silty clay loam/ A12 | surface water, algal mat or crust/ geomorphic position, FAC-Neutral Test | 0.41 (c),(t) | surface water storage, wildlife habitat |
| 57 | marsh | none | reed canary grass, common reed, narrow-leaved cattail | 1.3 | 3.3 | 53.8 | undetermined/ F3 | surface water/ geomorphic position, FAC-Neutral Test | 0.97 (c)<br>1.04 (t) | surface water storage |
| 59 | wet shrubland/ marsh | none | sandbar willow, Canada goldenrod, narrow-leaved cattail | 1.6 | 6.1 | 39.1 | undetermined/ F3 | surface water/ geomorphic position, FAC-Neutral Test | 0.26 (c)<br>0.30 (t) | surface water storage |
| 61 | marsh | none | reed canary grass, common reed | 1.2 | 3.7 | 47.1 | Peotone silty clay loam/ A12, F6, F7 | sediment deposits/ geomorphic position, FAC-Neutral Test | 0.17 (c)<br>0.98 (t) | surface water storage |
| 62 | wet shrubland | PEMC | sandbar willow, reed canary grass | 2.5 | 12.4 | 28.6 | Ashkum silty clay loam/ A12 | surface water, drift deposits, water marks, water-stained leaves/ geomorphic position, FAC-Neutral Test | 0.70 (c),(t) | surface water storage, wildlife habitat |

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|---|---|---|---|---|---|---|---|---|---|---|
| 63 | wet meadow | none | reed canary grass, Kentucky blue grass | 1.8 | 4.5 | 57.1 | undetermined/ A11, F2 | surface water, drift deposits, sediment deposits/ geomorphic position, FAC-Neutral Test | NA (c)<br>0.25 (t) | surface water storage |
| 64 | marsh | none | reed canary grass, common reed | 2.6 | 13.3 | 23.5 | undetermined/ A12 | algal mat or crust, high water table/ geomorphic position, FAC-Neutral Test | 0.63 (c),(t) | surface water storage, wildlife habitat |
| 69 | marsh | none | common reed | 1.6 | 4.6 | 38.5 | undetermined/ A11, F2 | surface water/ geomorphic position, FAC-Neutral Test | 0.09 (c)<br>0.32 (t) | surface water storage |
| 71 | forested depression | none | eastern cottonwood, box elder, cottonwood buckthorn, reed canary grass | 2.3 | 10.3 | 19.2 | Ashkum silty clay loam/A12 | surface water, drift deposits, water marks, algal mat or crust, water-stained leaves/ geomorphic position, FAC-Neutral Test | 0.51 (c),(t) | surface water storage, wildlife habitat |
| 73 | floodplain forest | none | box elder, green ash, common buckthorn, riverbank grape, Virginia wild rye, reed canary grass, narrow-leaved cattail | 2.4 | 13.9 | 21.4 | undetermined/ A11, F3 | surface water, drift deposits/geomorphic position, FAC-Neutral Test | NA (c)<br>0.32 (t) | flood water storage, wildlife habitat |

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|---|---|---|---|---|---|---|---|---|---|---|
| 74 | floodplain forest | none | green ash, box elder, common buckthorn, jewelweed | 2.1 | 9.6 | 36.4 | Ashkum silty clay loam/ A12 | drift deposits, sediment deposits/ drainage patterns, geomorphic position, FAC-Neutral Test | NA (c)<br>0.41 (t) | flood water storage, streambank stabilization, wildlife habitat |
| 75 | marsh | none | common reed, narrow-leaved cattail | 2.6 | 16.0 | 27.8 | Ashkum silty clay loam/ A12 | drift deposits, true aquatic plants/ surface soil cracks, drainage patterns, geomorphic position, FAC-Neutral Test | NA (c)<br>0.55 (t) | flood water storage, wildlife habitat |
| 76 | marsh | none | common reed, narrow-leaved cattail | 2.2 | 9.4 | 41.9 | undetermined/ A12 | sparsely vegetated concave surface/ geomorphic position, FAC-Neutral Test | NA (c)<br>0.28 (t) | surface water storage |
| 77 | marsh | none | spike rush | 2.7 | 8.5 | 23.1 | undetermined/ A11, F3 | sediment deposits, sparsely vegetated concave surface, algal mat or crust/ crayfish burrows, geomorphic position, FAC-Neutral Test | NA (c)<br>2.21 (t) | surface water storage |
| 78 | marsh | none | alkali bulrush, seaside goldenrod, narrow-leaved cattail | 2.3 | 4.0 | 81.3 | undetermined/ F3 | sediment deposits, sparsely vegetated concave surface, algal mat or crust/ surface soil cracks, FAC-Neutral Test | 0.02 (c)<br>0.20 (t) | surface water storage |

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|---|---|---|---|---|---|---|---|---|---|---|
| 82 | marsh | PEMC | common reed, narrow-leaved cattail | 2.8 | 18.8 | 17.0 | Peotone silty clay loam/ A12 | true aquatic plants/drainage patterns, geomorphic position, FAC-Neutral Test | NA (c)<br>1.72 (*) | high quality wildlife habitat, large amount of surface water storage, heritage/ recreation |
| 83 | pond | none | leafy pondweed | 2.7 | 9.7 | 40.9 | undetermined/ A11, F3 | surface water, true aquatic plants/ geomorphic position, FAC-Neutral Test | NA (c)<br>2.63 (t) | surface water storage, mitigation wetland |
| 84 | marsh | PEMC, PEMF | common reed | 2.4 | 10.9 | 39.4 | Ashkum silty clay loam/ A12 | surface water/ drainage patterns, geomorphic position, FAC-Neutral Test | 0.16 (c)<br>7.35 (t) | high quality wildlife habitat, large amount of surface water storage |
| 85 | marsh | none | reed canary grass, common reed, narrow-leaved cattail | 2.3 | 11.4 | 25.0 | Ashkum silty clay loam/ A12 | algal mat or crust, true aquatic plants/surface soil cracks, drainage patterns, geomorphic position, FAC-Neutral Test | NA (c)<br>0.30 (t) | surface water storage, wildlife habitat |

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|---|---|---|---|---|---|---|---|---|---|---|
| 87 | marsh/pond | PUBGx, PSS1Fx, PEMF | common duckweed, narrow-leaved cattail | 2.4 | 13.8 | 28.9 | Peotone silty clay loam/ A12 | surface water, true aquatic plants, inundation visible on aerial imagery/ drainage patterns, geomorphic position, FAC-Neutral Test | NA (c)<br>6.48 (t) | high quality wildlife habitat, large amount of surface water storage |
| 88 | marsh/pond | PUBGx | purple loosestrife, spatterdock, leafy pondweed, narrow-leaved cattail | 2.8 | 16.1 | 12.2 | undetermined/ A11, F3 | surface water, sediment deposits, inundation visible on aerial imagery, true aquatic plants/ geomorphic position, FAC-Neutral Test | NA (c)<br>3.86 (t) | wildlife habitat, surface water storage, heritage/ recreation |
| 89 | wet meadow | PEMA | reed canary grass | 3.0 | 8.5 | 42.9 | Peotone silty clay loam/ A12 | drift deposits/ geomorphic position, FAC-Neutral Test | 0.08 (c),(t) | surface water storage |
| 90 | marsh | PEMCd | common reed, narrow-leaved cattail | 2.6 | 11.8 | 36.4 | Ashkum silty clay loam/ A12 | surface water, water-stained leaves, true aquatic plants/ geomorphic position, FAC-Neutral Test | 0.13 (c)<br>1.19 (t) | wildlife habitat, surface water storage, mitigation wetland |
| 91 | marsh | none | common reed | 0.6 | 1.3 | 50.0 | undetermined/ A11, F3 | surface water/ drainage patterns, geomorphic position, FAC-Neutral Test | 0.10 (c),(t) | surface water storage |

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|---|---|---|---|---|---|---|---|---|---|---|
| 92 | forested depression | PFO1F, PUBGh | box elder, common buckthorn, common reed, narrow-leaved cattail | 2.5 | 13.1 | 27.0 | Peotone silty clay loam/ A12 | surface water/ geomorphic position, FAC-Neutral Test | NA (c)<br>0.47 (*) | wildlife habitat, surface water storage |
| 93 | marsh | PEMCd | reed canary grass, narrow-leaved cattail | 1.8 | 5.7 | 54.5 | Peotone silty clay loam/ A12 | no primary indicators/ geomorphic position, FAC-Neutral Test | NA (c)<br>2.95 (*) | wildlife habitat, surface water storage |
| 94 | marsh | none | common reed, narrow-leaved cattail | 2.8 | 13.2 | 24.1 | Ashkum silty clay loam/ A12 | surface water/ drainage patterns, geomorphic position, FAC-Neutral Test | NA (c)<br>0.26 (t) | surface water storage |
| 95 | marsh | none | river bulrush, reed canary grass, common reed | 2.0 | 6.3 | 44.4 | Peotone silty clay loam/ A12 | no primary indicators/ drainage patterns, geomorphic position, FAC-Neutral Test | NA (c)<br>0.07 (*) | wildlife habitat, surface water storage |
| 97 | marsh | none | reed canary grass, common reed | 1.4 | 4.3 | 25.0 | Peotone silty clay loam/ A12 | no primary indicators/ geomorphic position, FAC-Neutral Test | 0.05 (c)<br>0.27 (t) | surface water storage |
| 98 | wet shrubland | none | sandbar willow, reed canary grass, narrow-leaved cattail | 2.3 | 9.7 | 28.0 | undetermined/ A11, F3 | no primary indicators/ geomorphic position, FAC-Neutral Test | NA (c)<br>0.59 (t) | surface water storage |

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|---|---|---|---|---|---|---|---|---|---|---|
| 99 | marsh | none | narrow-leaved cattail | 2.4 | 12.3 | 34.1 | Ashkum silty clay loam/ A12 | surface water, true aquatic plants/ geomorphic position, FAC-Neutral Test | 0.12 (c)<br>3.78 (t) | wildlife habitat, surface water storage |
| 101 | marsh | none | spike rush, Torrey's rush, reed canary grass, narrow-leaved cattail | 2.3 | 8.6 | 30.0 | Peotone silty clay loam/ A12 | no primary indicators/ drainage patterns, geomorphic position, FAC-Neutral Test | NA (c)<br>0.28 (t) | surface water storage |
| 102 | pond | none | common reed, narrow-leaved cattail | 3.3 | 13.9 | 35.5 | undetermined/ A11, F3 | surface water, true aquatic plants, inundation visible on aerial imagery/ geomorphic position, FAC-Neutral Test | 0.04 (c)<br>1.28 (t) | wildlife habitat, surface water storage |
| 103 | marsh | PUBFx, PEMA | narrow-leaved cattail | 2.3 | 7.8 | 45.5 | undetermined/ F3 | surface water, true aquatic plants, inundation visible on aerial imagery/ surface soil cracks, geomorphic position, FAC-Neutral Test | 0.01 (c)<br>2.18 (t) | wildlife habitat, surface water storage |
| 105 | forested depression | none | eastern cottonwood, black willow, sandbar willow, reed canary grass, narrow-leaved cattail | 2.7 | 14.2 | 23.1 | Peotone silty clay loam/ A12 | surface water/ geomorphic position, FAC-Neutral Test | 0.43 (c)<br>0.63 (t) | wildlife habitat, surface water storage |

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|---|---|---|---|---|---|---|---|---|---|---|
| 107 | forested depression | none | eastern cottonwood, reed canary grass, narrow-leaved cattail | 2.6 | 13.3 | 25.0 | Peotone silty clay loam/ A12 | drift deposits, sparsely vegetated concave surface, water-stained leaves, true aquatic plants/ geomorphic position, FAC-Neutral Test | NA (c)<br>1.19 (t) | wildlife habitat, surface water storage |
| 108 | marsh | none | reed canary grass, common reed, narrow-leaved cattail | 2.4 | 9.9 | 32.0 | Peotone silty clay loam/ A12 | no primary indicators/ geomorphic position, FAC-Neutral Test | 0.00 (c)<br>0.30 (t) | wildlife habitat, surface water storage |
| 109 | forested depression | PEMF | silver maple, common buckthorn | 2.0 | 5.7 | 38.5 | Peotone silty clay loam/A12 | drift deposits, water marks, water-stained leaves, sparsely vegetated concave surface/geomorphic position, FAC-Neutral Test | NA (c)<br>0.47 (*) | wildlife habitat, surface water storage |
| 111 | wet shrubland | PEMCd | sandbar willow, reed canary grass, narrow-leaved cattail | 2.8 | 15.8 | 26.7 | Peotone silty clay loam/ A12 | surface water, true aquatic plants/ geomorphic position, FAC-Neutral Test | 0.00 (c)<br>0.57 (t) | wildlife habitat, surface water storage |
| 113 | forested depression | PEMCd | silver maple, eastern cottonwood, reed canary grass | 2.9 | 14.3 | 20.0 | Ashkum silty clay loam/ A12 | surface water/ geomorphic position, FAC-Neutral Test | 0.07 (c)<br>0.20 (t) | wildlife habitat, surface water storage |

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|---|---|---|---|---|---|---|---|---|---|---|
| 114 | marsh | PEMCd, PUBF | panicled aster, narrow-leaved cattail | 2.2 | 13.8 | 26.4 | Peotone silty clay loam/ A12 | algal mat or crust, true aquatic plants/ surface soil cracks, drainage patterns, geomorphic position, FAC-Neutral Test | 0.07 (c)<br>2.39 (t) | wildlife habitat, surface water storage |
| 123 | marsh | none | spike rush | 2.0 | 6.0 | 25.0 | undetermined/ A12 | surface water/geomorphic position, FAC-Neutral Test | NA (c)<br>0.25 (*) | surface water storage, heritage/ recreation |
| 124 | marsh/pond | PEMCd | reed canary grass, common reed, narrow-leaved cattail | 2.4 | 13.3 | 33.3 | Peotone silty clay loam/ A12 | surface water, drift deposits, inundation visible on aerial imagery, true aquatic plants/ geomorphic position, FAC-Neutral Test | 4.06 (c)<br>13.34 (t) | wildlife habitat, surface water storage, mitigation wetland, heritage/ recreation |

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|---|---|---|---|---|---|---|---|---|---|---|
| 125 | marsh | PEMCd | reed canary grass, common reed, narrow-leaved cattail | 2.3 | 15.1 | 23.6 | Peotone silty clay loam/ A12 | surface water, drift deposits, true aquatic plants/ geomorphic position, FAC-Neutral Test | 2.19 (c)<br>31.43(*) | high quality wildlife habitat, large amount of surface water storage, heritage/ recreation (portion overlaps with mapped DuPage County critical wetland) |
| 134 | marsh | none | narrow-leaved cattail | 2.5 | 11.7 | 24.1 | undetermined/ F6, F7 | surface water, drift deposits, true aquatic plants/ geomorphic position, FAC-Neutral Test | 0.49 (c)<br>0.52 (t) | wildlife habitat, surface water storage |
| 137 | marsh/pond | PSS1A | spike rush, fragrant water lily | 3.0 | 7.9 | 38.5 | Houghton muck/ A1 | surface water/ geomorphic position, FAC-Neutral Test | 0.12 (c)<br>1.93 (t) | wildlife habitat, surface water storage |
| 138 | marsh | PSS1A | common duckweed, narrow-leaved cattail | 2.1 | 7.2 | 36.8 | Houghton muck/ A1 | surface water, true aquatic plants/ geomorphic position, FAC-Neutral Test | 0.50 (c)<br>2.93 (t) | surface water storage |

TABLE J-1
Summary of the Wetlands in the Project Vicinity and their Characteristics

| Wetland Site Number | Wetland Type (Plant Community/ Cover Type) | NWI Code[a] | Dominant Plant Species[b] | Mean C-Value | FQI | Percent Adventive | Soil Type/NRCS Hydric Soil Indicator(s)[c] | Hydrologic Indicators (Primary/Secondary) | Wetland Size (ac)[d] | Wetland Functions |
|---|---|---|---|---|---|---|---|---|---|---|
| 139 | marsh | none | common reed | 2.7 | 9.0 | 47.6 | undetermined/ A12, F6 | surface water/ drainage patterns, geomorphic position, FAC-Neutral Test | 0.34 (c),(t) | surface water storage |
| 140 | marsh | none | narrow-leaved cattail | 2.0 | 10.2 | 35.0 | Ashkum silty clay loam/ A12 | surface water/ drainage patterns, geomorphic position, FAC-Neutral Test | 3.21 (c),(t) | surface water storage |
| 141 | marsh | PEMA | Torrey's rush, reed canary grass, narrow-leaved cattail | 1.5 | 6.1 | 43.3 | Ashkum silty clay loam/ A12 | saturation/ geomorphic position, FAC-Neutral Test | 0.49 (c),(t) | surface water storage |
| 142 | marsh | none | common reed, cattail | 2.0 | 9.6 | 22.6 | undetermined/ A11, F3 | no primary indicators/ geomorphic position, FAC-Neutral Test | 0.89 (c),(t) | surface water storage |
| 143 | marsh | none | narrow-leaved cattail | 1.7 | 2.9 | 72.7 | undetermined/ A11, F3 | high water table/ geomorphic position, FAC-Neutral Test | 0.02 (c),(t) | surface water storage |
| 144 | marsh | none | narrow-leaved cattail | 2.0 | 4.5 | 28.6 | undetermined/ inaccessible; hydric soil assumed | surface water/ geomorphic position, FAC-Neutral Test | 0.01 (c)<br>2.43 (t) | surface water storage |
| 146 | marsh/wet meadow | none | red top, narrow-leaved cattail | 3.0 | 9.9 | 18.8 | undetermined/ A11, F3 | no primary indicators/ geomorphic position, FAC-Neutral Test | 0.01 (c),(t) | surface water storage, heritage/ recreation (high floristic quality) |

TABLE J-1
Summary of the Wetlands in the Project Vicinity and their Characteristics

| Wetland Site Number | Wetland Type (Plant Community/ Cover Type) | NWI Code[a] | Dominant Plant Species[b] | Mean C-Value | FQI | Percent Adventive | Soil Type/NRCS Hydric Soil Indicator(s)[c] | Hydrologic Indicators (Primary/Secondary) | Wetland Size (ac)[d] | Wetland Functions |
|---|---|---|---|---|---|---|---|---|---|---|
| 148 | marsh/pond | none | common duckweed, narrow-leaved cattail | 2.2 | 7.5 | 47.8 | Ashkum silty clay loam/A12 | surface water, true aquatic plants/ geomorphic position, FAC-Neutral Test | NA (c)<br>0.42 (t) | surface water storage |
| 149 | pond | PUBGx | leafy pondweed, comb pondweed, narrow-leaved cattail | 3.0 | 9.0 | 35.7 | Ashkum silty clay loam/ A12 | surface water, true aquatic plants/ geomorphic position, FAC-Neutral Test | NA (c)<br>0.32 (t) | surface water storage |
| 150 | restored wet prairie | none | squirrel-tail, Torrey's rush, prairie switchgrass, narrow-leaved cattail | 2.9 | 15.2 | 30.8 | Ashkum silty clay loam/A12 | sparsely vegetated concave surface/surface soil cracks, drainage patterns, geomorphic position, FAC- Neutral Test | NA (c)<br>0.23 (t) | surface water storage |
| 151 | marsh | none | narrow-leaved cattail | 2.0 | 4.5 | 58.3 | Ashkum silty clay loam/ A12 | no primary indicators/ drainage patterns, geomorphic position, FAC-Neutral Test | 0.16 (c),(t) | surface water storage |
| 152 | marsh | none | narrow-leaved cattail | 2.7 | 13.3 | 35.1 | undetermined/ F3 | surface water/ drainage patterns, geomorphic position, FAC-Neutral Test | 0.99 (c),(t) | surface water storage |
| 154 | marsh | none | fragrant water lily, narrow-leaved cattail | 2.9 | 17.8 | 25.5 | Ashkum silty clay loam/ A12 | surface water/ geomorphic position, crayfish burrows, FAC-Neutral Test | NA (c)<br>1.33 (t) | wildlife habitat, surface water storage |

TABLE J-1
Summary of the Wetlands in the Project Vicinity and their Characteristics

| Wetland Site Number | Wetland Type (Plant Community/ Cover Type) | NWI Code[a] | Dominant Plant Species[b] | Mean C-Value | FQI | Percent Adventive | Soil Type/NRCS Hydric Soil Indicator(s)[c] | Hydrologic Indicators (Primary/Secondary) | Wetland Size (ac)[d] | Wetland Functions |
|---|---|---|---|---|---|---|---|---|---|---|
| 155 | marsh | none | reed canary grass, great bulrush, narrow-leaved cattail | 2.3 | 9.9 | 26.9 | Peotone silty clay loam/ A12 | no primary indicators/ drainage patterns, geomorphic position, crayfish burrows, FAC-Neutral Test | 0.42 (c),(t) | surface water storage |
| 158 | marsh | PEMC | river bulrush, wooly sedge, common reed, great bulrush | 3.1 | 22.8 | 20.9 | Ashkum silty clay loam/ A12 | surface water/ geomorphic position, crayfish burrows, FAC-Neutral Test | NA (c)<br>1.47 (t) | wildlife habitat, surface water storage, heritage/ recreation (high floristic quality) |
| 160 | pond | none | narrow-leaved cattail | 2.2 | 5.3 | 22.2 | undetermined/ A2, A3, A11, F2 | surface water, drift deposits, true aquatic plants/ geomorphic position, FAC-Neutral Test | 0.36 (c)<br>1.53 (t) | surface water storage |
| 161 | pond | none | narrow-leaved cattail | 2.2 | 9.9 | 19.2 | Ashkum silty clay loam/ A12 | surface water, sparsely vegetated concave surface, algal mat or crust, true aquatic plants / geomorphic position, crayfish burrows, FAC-Neutral Test | 0.03 (c)<br>0.10 (t) | surface water storage |
| 162 | marsh | none | narrow-leaved cattail | 2.2 | 12.6 | 24.4 | Peotone silty clay loam/ A12 | sediment deposits / drainage patterns, geomorphic position, FAC-Neutral Test | NA (c)<br>2.56 (t) | surface water storage, wildlife habitat, heritage/ recreation |

TABLE J-1
Summary of the Wetlands in the Project Vicinity and their Characteristics

| Wetland Site Number | Wetland Type (Plant Community/ Cover Type) | NWI Code[a] | Dominant Plant Species[b] | Mean C-Value | FQI | Percent Adventive | Soil Type/NRCS Hydric Soil Indicator(s)[c] | Hydrologic Indicators (Primary/Secondary) | Wetland Size (ac)[d] | Wetland Functions |
|---|---|---|---|---|---|---|---|---|---|---|
| 163 | marsh | none | narrow-leaved cattail | 2.2 | 10.6 | 40.0 | Peotone silty clay loam/ A12 | surface water/ drainage patterns, geomorphic position, FAC-Neutral Test | NA (c)<br>1.32 (t) | surface water storage, wildlife habitat, heritage/ recreation |
| 164 | forested depression | PUBGx, PEMC | green ash, silver maple, common duckweed, reed canary grass, common reed, narrow-leaved cattail | 2.1 | 11.5 | 31.9 | Ashkum silty clay loam/ A4, A12 | surface water, drift deposits, true aquatic plants/ surface soil cracks, geomorphic position, FAC-Neutral Test | 0.74 (c)<br>5.18 (*) | wildlife habitat, surface water storage |
| 165 | pond | none | spike rush, leafy pondweed | 1.6 | 5.5 | 36.8 | Ashkum silty clay loam/A12 | surface water, true aquatic plants/ geomorphic position, FAC-Neutral Test | NA (c)<br>0.47 (t) | surface water storage |
| 170 | pond | PSS1A, PEMA | common duckweed, leafy pondweed | 3.0 | 15.3 | 18.8 | undetermined/ A11, F6, F7 | surface water, true aquatic plants/ geomorphic position, FAC-Neutral Test | NA (c)<br>0.90 (t) | wildlife habitat, surface water storage |
| 171 | forested depression | PSS1A | eastern cottonwood, American elm, green ash, common buckthorn, riverbank grape | 2.0 | 5.7 | 20.0 | Peotone silty clay loam/ A12 | sparsely vegetated concave surface, drift deposits, water-stained leaves/ geomorphic position, FAC-Neutral Test | NA (c)<br>0.30 (t) | surface water storage |

TABLE J-1
Summary of the Wetlands in the Project Vicinity and their Characteristics

| Wetland Site Number | Wetland Type (Plant Community/ Cover Type) | NWI Code[a] | Dominant Plant Species[b] | Mean C-Value | FQI | Percent Adventive | Soil Type/NRCS Hydric Soil Indicator(s)[c] | Hydrologic Indicators (Primary/Secondary) | Wetland Size (ac)[d] | Wetland Functions |
|---|---|---|---|---|---|---|---|---|---|---|
| 172 | wet meadow | none | beggar's ticks, bluejoint grass, spike rush | 1.5 | 6.7 | 26.9 | Drummer silty clay loam/ A12 | algal mat or crust/ geomorphic position, FAC-Neutral Test | 0.21 (c)<br>0.32 (t) | surface water storage |
| 175 | marsh | none | spike rush, narrow-leaved cattail | 2.6 | 12.9 | 29.4 | Drummer silty clay loam/ A12 | surface water, drift deposits, true aquatic plants/ geomorphic position, FAC-Neutral Test | NA (c)<br>0.40 (t) | surface water storage, heritage/ recreation |
| 177 | pond | none | leafy pondweed, water milfoil | 1.9 | 7.5 | 37.5 | undetermined/ A11, F3 | surface water, drift deposits, true aquatic plants, inundation visible on aerial imagery/ geomorphic position, FAC-Neutral Test | NA (c)<br>0.24 (t) | surface water storage, heritage/ recreation |
| 178 | wet meadow | PEMC | reed canary grass | 2.0 | 7.2 | 38.1 | Sawmill silty clay loam/ A12 | sediment deposits/ drainage patterns, geomorphic position, FAC-Neutral Test | 0.86 (c)<br>2.48 (t) | flood water storage, streambank stabilization, wildlife habitat, heritage/ recreation |
| 180 | marsh | PEMC | common reed | 2.2 | 4.9 | 0.0 | Sawmill silty clay loam/ A12 | surface water, sediment deposits, drift deposits/ drainage patterns, geomorphic position, FAC-Neutral Test | NA (c)<br>2.39 (t) | wildlife habitat, flood water storage, mitigation wetland, heritage/ recreation |

TABLE J-1
Summary of the Wetlands in the Project Vicinity and their Characteristics

| Wetland Site Number | Wetland Type (Plant Community/ Cover Type) | NWI Code[a] | Dominant Plant Species[b] | Mean C-Value | FQI | Percent Adventive | Soil Type/NRCS Hydric Soil Indicator(s)[c] | Hydrologic Indicators (Primary/Secondary) | Wetland Size (ac)[d] | Wetland Functions |
|---|---|---|---|---|---|---|---|---|---|---|
| 181 | marsh | none | common reed, narrow-leaved cattail | 1.9 | 7.8 | 19.0 | Sawmill silty clay loam/ A12 | surface water, sediment deposits, drift deposits, true aquatic plants/ drainage patterns, geomorphic position, FAC-Neutral Test | 2.03 (c)<br>2.30 (t) | wildlife habitat, surface water storage, heritage/ recreation |
| 184 | marsh | none | common reed | 1.2 | 3.9 | 35.3 | Ashkum silty clay loam/ A12 | no primary indicators/ drainage patterns, geomorphic position, FAC-Neutral Test | 0.20 (c),(t) | surface water storage |
| 186 | pond | none | European water milfoil | 2.3 | 5.7 | 40.0 | undetermined/ A11, F2 | surface water, inundation visible on aerial imagery, true aquatic plants/ geomorphic position, FAC-Neutral Test | NA (c)<br>0.18 (t) | surface water storage |
| 187 | forested depression | PEMC | eastern cottonwood, box elder, common buckthorn, reed canary grass | 2.2 | 10.0 | 36.4 | undetermined/ A11, F2 | surface water, sediment deposits, true aquatic plants/ geomorphic position, FAC-Neutral Test | 0.80 (c)<br>0.81 (t) | wildlife habitat, surface water storage |
| 188 | pond | PEMC | broad-leaf water-plantain, arrowhead | 2.1 | 8.0 | 36.4 | Ashkum silty clay loam/ A12 | surface water, inundation visible on aerial imagery, true aquatic plants/ geomorphic position, FAC-Neutral Test | 0.21 (c),(t) | surface water storage |

TABLE J-1
Summary of the Wetlands in the Project Vicinity and their Characteristics

| Wetland Site Number | Wetland Type (Plant Community/ Cover Type) | NWI Code[a] | Dominant Plant Species[b] | Mean C-Value | FQI | Percent Adventive | Soil Type/NRCS Hydric Soil Indicator(s)[c] | Hydrologic Indicators (Primary/Secondary) | Wetland Size (ac)[d] | Wetland Functions |
|---|---|---|---|---|---|---|---|---|---|---|
| 189 | forested depression | PEMC | eastern cottonwood, green ash, reed canary grass | 1.8 | 7.3 | 23.8 | Ashkum silty clay loam/ A12 | surface water/ geomorphic position, FAC-Neutral Test | 1.03 (c),(t) | wildlife habitat, surface water storage |
| 190 | forested depression | PEMA | eastern cottonwood, box elder, common buckthorn, reed canary grass | 1.9 | 6.3 | 31.3 | undetermined/ F3, F6 | surface water/ geomorphic position, FAC-Neutral Test | 0.34 (c),(t) | wildlife habitat, surface water storage |
| 191 | marsh | none | narrow-leaved cattail | 1.9 | 5.7 | 10.0 | Ashkum silty clay loam/ A12 | no primary indicators/ drainage patterns, geomorphic position, FAC-Neutral Test | 0.14 (c),(t) | surface water storage |
| 192 | wet meadow | none | dogbane, reed canary grass | 2.3 | 9.9 | 18.2 | Ashkum silty clay loam/ A12 | water-stained leaves, algal mat or crust/ geomorphic position, FAC-Neutral Test | 0.06 (c),(t) | surface water storage |
| 194 | marsh | none | red top, narrow-leaved cattail | 2.1 | 6.3 | 25.0 | Ashkum silty clay loam/ A12 | no primary indicators/ drainage patterns, geomorphic position, FAC-Neutral Test | 0.14 (c),(t) | surface water storage |
| 195 | marsh | none | common reed, narrow-leaved cattail | 2.5 | 6.1 | 40.0 | Peotone silty clay loam/ A12 | algal mat or crust/ drainage patterns, geomorphic position, FAC-Neutral Test | 0.20 (c),(t) | surface water storage |

TABLE J-1
Summary of the Wetlands in the Project Vicinity and their Characteristics

| Wetland Site Number | Wetland Type (Plant Community/ Cover Type) | NWI Code[a] | Dominant Plant Species[b] | Mean C-Value | FQI | Percent Adventive | Soil Type/NRCS Hydric Soil Indicator(s)[c] | Hydrologic Indicators (Primary/Secondary) | Wetland Size (ac)[d] | Wetland Functions |
|---|---|---|---|---|---|---|---|---|---|---|
| 1A | marsh | upland | common reed | 1.8 | 4.9 | 20.0 | undetermined/ F6 | high water table, saturation/ geomorphic position, FAC-Neutral Test | NA (c)<br>0.09 (t) | surface water storage |
| 1C | marsh | upland | spike rush, purple loosestrife, red top, Dudley's rush, cattail | 2.6 | 15.9 | 26.4 | Sawmill silty clay loam/A10, F3 | high water table, saturation, sediment deposits, drift deposits/ drainage patterns, geomorphic position, FAC-Neutral Test | 1.04 (c)<br>1.05 (t) | surface water storage, wildlife habitat, heritage/ recreation |
| 2C | wet meadow | upland | reed canary grass | 2.2 | 8.5 | 25.0 | Sawmill silty clay loam/ A12 | high water table, saturation, sediment deposits, drift deposits/ drainage patterns, geomorphic position, FAC-Neutral Test | 0.48 (c)<br>0.88 (t) | wildlife habitat, flood water storage, streambank stabilization, heritage/ recreation |
| 3A | marsh | upland | common reed | 1.7 | 4.1 | 66.7 | undetermined/ A11, F3 | high water table, saturation/ geomorphic position, FAC-Neutral Test | NA (c)<br>0.02 (t) | surface water storage |
| 5C | wet meadow | PUBF | red top, spike rush, Kentucky bluegrass | 1.0 | 1.7 | 50.0 | Ashkum silty clay loam/F6 | surface water, high water table, saturation/ geomorphic position, FAC-Neutral Test | 0.00 (c)<br>0.19 (t) | surface water storage |

TABLE J-1
Summary of the Wetlands in the Project Vicinity and their Characteristics

| Wetland Site Number | Wetland Type (Plant Community/ Cover Type) | NWI Code[a] | Dominant Plant Species[b] | Mean C-Value | FQI | Percent Adventive | Soil Type/NRCS Hydric Soil Indicator(s)[c] | Hydrologic Indicators (Primary/Secondary) | Wetland Size (ac)[d] | Wetland Functions |
|---|---|---|---|---|---|---|---|---|---|---|
| 11C | marsh | upland | narrow-leaved cattail | 1.5 | 3.0 | 37.5 | unmapped by NRCS/F3 | surface water, high water table, saturation, aquatic fauna/ drainage patterns, geomorphic position, FAC-Neutral Test | 0.25 (c)<br>0.32 (t) | surface water storage |

*Source*: Matthews et al., 2009; Matthews et al., 2010; Mathews et al., 2011; DuPage County Department of Development and Environmental Concerns, 1999; CH2M HILL GIS database, 2011

[a] National Wetlands Inventory (NWI) Codes: P = palustrine; EM = emergent; OW = open water (unknown bottom); SS1 = scrub-shrub, broad-leaved deciduous; UB = unconsolidated bottom; A = temporarily flooded; C = seasonally flooded; F = semipermanently flooded; G = intermittently exposed; d = partially drained/ditched; x = excavated

[b] Scientific names are provided in Table J-2.

[c] Natural Resources Conservation Service (NRCS) Mapped Soil Series are provided, unless revised by Illinois Natural History Survey (INHS). “Water” and “undetermined” are not Soil Series, but represent what was observed at time of the field investigation.
NRCS Hydric Soil Indicators: A1 = Histosol; A2 = Histic Epipedon; A3 = Black Histic; A4 = Hydrogen Sulfide; A10 = 2cm Muck; A11 = Depleted Below Dark Surface; A12 = Thick Dark Surface; F2 = Loamy Gleyed Matrix; F3 = Depleted Matrix; F6 = Redox Dark Surface; F7 = Depleted Dark Surface

[d] (c) = acreage within project corridor; (t) = total acreage; (*) = wetland site extends beyond field study limits, total acreage is not known; an acreage of 0.00 (c) = wetland with an area of less than 0.005 acre within the project corridor limits; NA (c) = not within project corridor

TABLE J-2
Wetland Plant List

| Common Name | Scientific Name |
|---|---|
| alkali bulrush | *Bolboschoenus maritimus* |
| American elm | *Ulmus americana* |
| arrowhead | *Sagittaria latifolia* |
| beggar's ticks | *Bidens comosa* |
| black willow | *Salix nigra* |
| bluejoint grass | *Calamagrostis canadensis* |
| box elder | *Acer negundo* |
| broad-leaf water-plantain | *Alisma plantago-aquatica* |
| Canada goldenrod | *Solidago canadensis* |
| cattail | *Typha latifolia* |
| comb pondweed | *Stuckenia pectinata* |
| common buckthorn | *Rhamnus cathartica* |
| common duckweed | *Lemna minor* |
| common reed | *Phragmites australis* |
| cut-leaved teasel | *Dipsacus laciniatus* |
| dogbane | *Apocynum cannabinum* |
| Dudley's rush | *Juncus dudleyi* |
| eastern cottonwood | *Populus deltoides* |
| European water milfoil | *Myriophyllum spicatum* |
| fragrant water lily | *Nymphaea odorata* |
| garlic mustard | *Alliaria petiolata* |
| grassleaf goldenrod | *Euthamia graminifolia* |
| great bulrush | *Schoenoplectus tabernaemontani* |
| green ash | *Fraxinus pennsylvanica* |
| ground ivy | *Glechoma hederacea* |
| inland salt grass | *Distichlis spicata* |
| jewelweed | *Impatiens capensis* |
| Kentucky blue grass | *Poa pratensis* |
| leafy pondweed | *Potamogeton nodosus* |
| narrow-leaved cattail | *Typha angustifolia* |
| pale dogwood | *Cornus obliqua* |
| panicled aster | *Aster lanceolatus* var. *simplex* |

TABLE J-2
Wetland Plant List

| Common Name | Scientific Name |
|---|---|
| poison ivy | *Toxicodendrom radicans* |
| prairie switchgrass | *Panicum virgatum* |
| purple loosestrife | *Lythrum salicaria* |
| red top | *Agrostis alba/A. gigantea* |
| reed canary grass | *Phalaris arundinacea* |
| riverbank grape | *Vitis riparia* |
| river bulrush | *Bolboschoenus fluviatilis* |
| salt spurrey | *Spergularia media* |
| sandbar willow | *Salix interior* |
| seaside goldenrod | *Solidago sempervirens* |
| silver maple | *Acer saccharinum* |
| spatterdock | *Nuphar luteum macrophyllum* |
| spike rush | *Eleocharis erythropoda* |
| squirrel-tail | *Hordeum jubatum* |
| Torrey's rush | *Juncus torreyi* |
| Virginia wild rye | *Elymus virginicus* |
| water milfoil | *Myriophyllum* sp. |
| wooly sedge | *Carex pellita* |

**APPENDIX J**

# References


CH2M HILL. 2011. GIS Database.

DuPage County Department of Development and Environmental Concerns. 1999. *DuPage County Wetland Inventory (DCWI) Maps*.

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Matthews, J., I. Draheim, B. Zercher, and J. Zylka. INHS. 2010. *Wetland Survey Report for Elgin O'Hare Expressway in Cook and DuPage Counties – Addenda A and B*. Prepared for the Illinois Department of Transportation. September 7.

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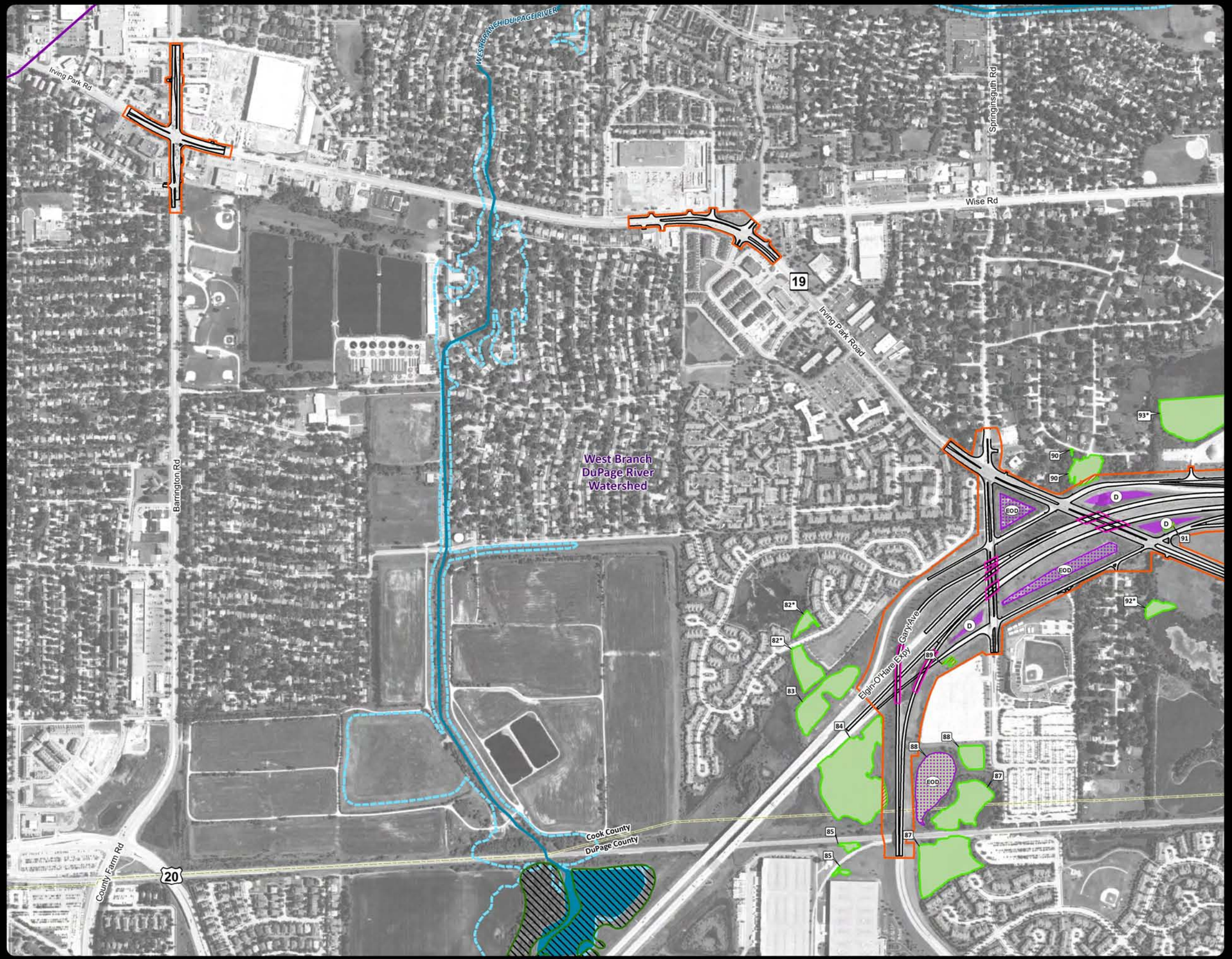


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## LEGEND

- Impacted Wetland/Waters
- Wetlands
- Mapped Critical Wetlands
- Surface Waters
- 100-Year Floodplain
- Existing Elgin-O'Hare Detention Ponds
- Potential Stormwater Management Facility
  - Compensatory Storage Site
  - Detention Site
  - Pump Station
- Watershed Boundary
- Proposed Edge of Pavement
- Proposed Bridge
- Runway Protection Zone (Proposed and/or Existing)
- O'Hare Airport
- County Boundary
- Project Corridor

Notes:
-Wetland Id numbers with an * represent wetlands that extend beyond the limits of this study (i.e., the entire wetland is not shown).
-Some creek boundaries located outside of project corridor have been revised based on aerial interpretation.

Sources:
-Wetlands: Matthews et al., 2009; Matthews et al., 2010; Matthews et al., 2011
-Mapped Critical Wetlands: DuPage County Wetland Inventory, 2006
-Surface Waters: Cook County, 2006; DuPage County, 2009; IEPA, 2006; Matthews and Zercher, 2010; and Matthews, et al., 2011
-100-Year Floodplain: CBBEL, 2006; FEMA, 1993; FEMA, 2004; FEMA, 2008
-Existing Elgin-O'Hare Expressway Detention Ponds: Elgin-O'Hare Expressway General Layout Plan, undated
-Watershed Boundary: IEPA, 2002
-Runway Protection Zone: City of Chicago, 2003
-O'Hare Airport: City of Chicago, 2003
-Aerial photography: Airphoto USA, 2008; City of Chicago, 2009
-County Boundary: Tele Atlas North America, Inc., 2008

NORTH

0 400 800 1,600
Feet

# Exhibit J-1
Potential Wetland/ Surface Water Impacts

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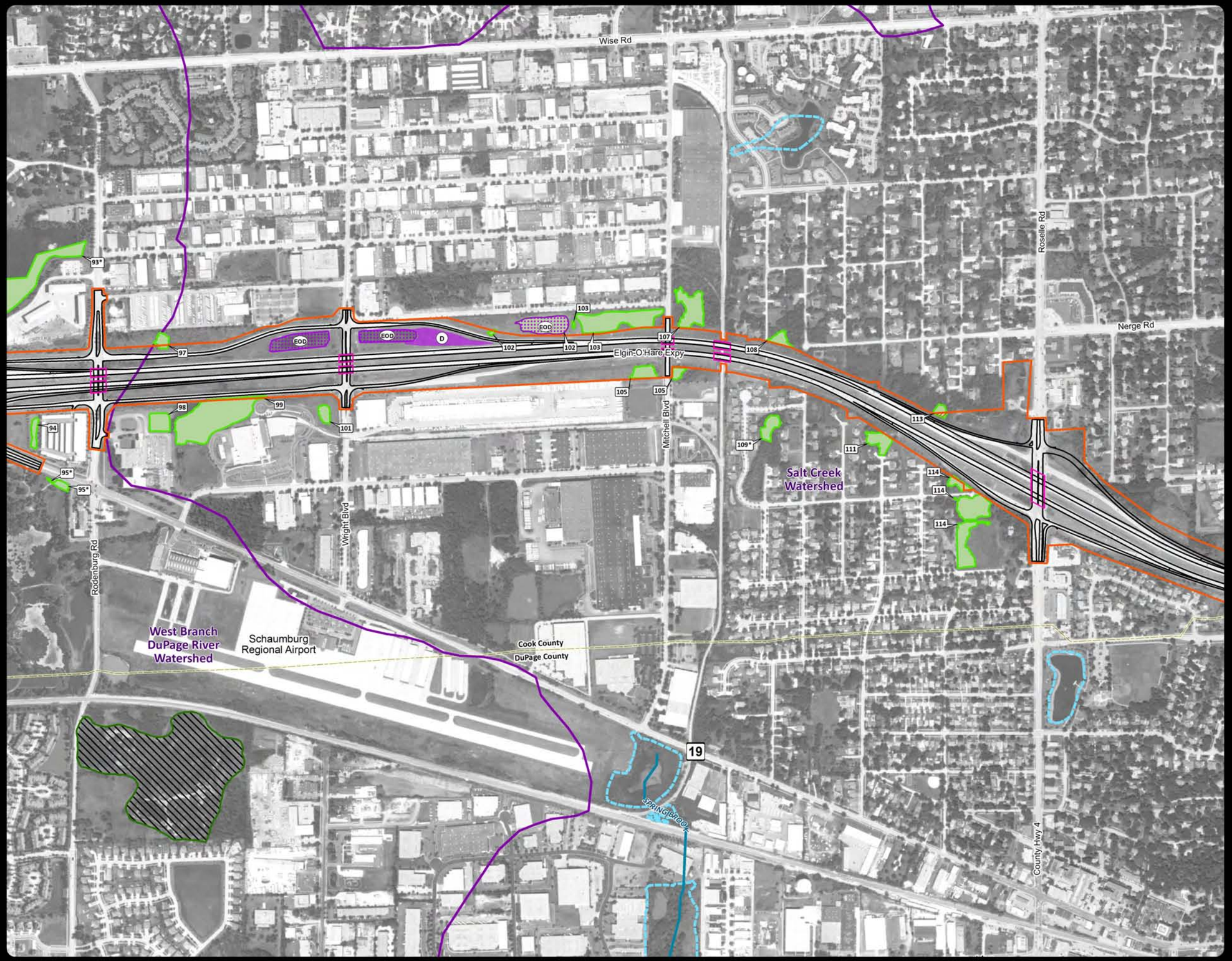


## LEGEND

- Impacted Wetland/Waters
- Wetlands
- Mapped Critical Wetlands
- Surface Waters
- 100-Year Floodplain
- Existing Elgin-O'Hare Detention Ponds
- Potential Stormwater Management Facility
  - Compensatory Storage Site
  - Detention Site
  - Pump Station
- Watershed Boundary
- Proposed Edge of Pavement
- Proposed Bridge
- Runway Protection Zone (Proposed and/or Existing)
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Notes:
-Wetland Id numbers with an * represent wetlands that extend beyond the limits of this study (i.e., the entire wetland is not shown).
-Some creek boundaries located outside of project corridor have been revised based on aerial interpretation.

Sources:
-Wetlands: Matthews et al., 2009; Matthews et al., 2010; Matthews et al., 2011
-Mapped Critical Wetlands: DuPage County Wetland Inventory, 2006
-Surface Waters: Cook County, 2006; DuPage County, 2009; IEPA, 2006; Matthews and Zercher, 2010; and Matthews, et al., 2011
-100-Year Floodplain: CBBEL, 2006; FEMA, 1993; FEMA, 2004; FEMA, 2008
-Existing Elgin-O'Hare Expressway Detention Ponds: Elgin-O'Hare Expressway General Layout Plan, undated
-Watershed Boundary: IEPA, 2002
-Runway Protection Zone: City of Chicago, 2003
-O'Hare Airport: City of Chicago, 2003
-Aerial photography: Airphoto USA, 2008; City of Chicago, 2009
-County Boundary: Tele Atlas North America, Inc., 2008

NORTH

0 400 800 1,600
Feet

# Exhibit J-2
Potential Wetland/ Surface Water Impacts

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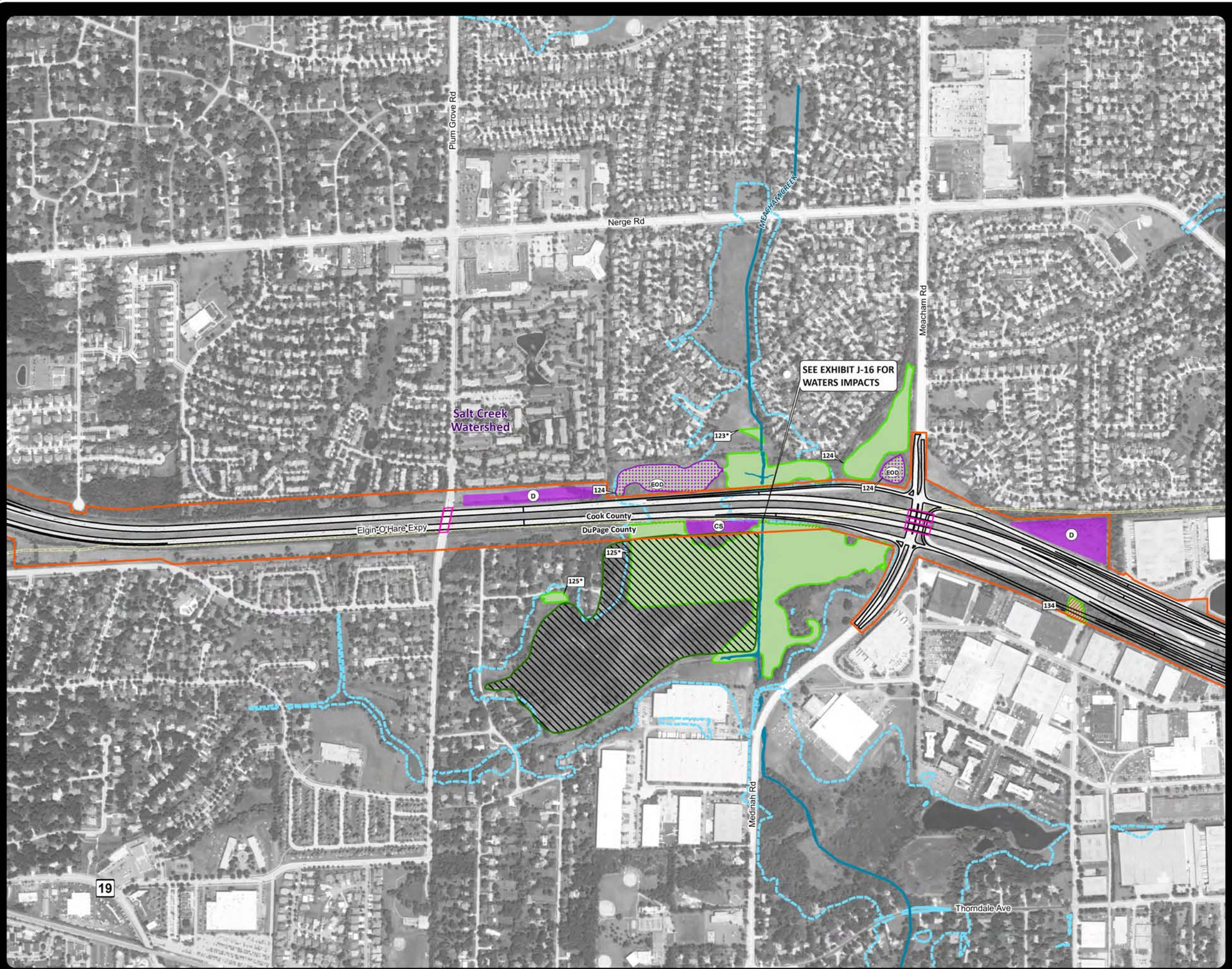


## LEGEND

- Impacted Wetland/Waters
- Wetlands
- Mapped Critical Wetlands
- Surface Waters
- 100-Year Floodplain
- Existing Elgin-O'Hare Detention Ponds
- Potential Stormwater Management Facility
  - CS Compensatory Storage Site
  - D Detention Site
  - PS Pump Station
- Watershed Boundary
- Proposed Edge of Pavement
- Proposed Bridge
- Runway Protection Zone (Proposed and/or Existing)
- O'Hare Airport
- County Boundary
- Project Corridor

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-100-Year Floodplain: CBBEL, 2006; FEMA, 1993; FEMA, 2004; FEMA, 2008
-Existing Elgin-O'Hare Expressway Detention Ponds: Elgin-O'Hare Expressway General Layout Plan, undated
-Watershed Boundary: IEPA, 2002
-Runway Protection Zone: City of Chicago, 2003
-O'Hare Airport: City of Chicago, 2003
-Aerial photography: Airphoto USA, 2008; City of Chicago, 2009
-County Boundary: Tele Atlas North America, Inc., 2008

NORTH

0 400 800 1,600
Feet

# Exhibit J-3
Potential Wetland/ Surface Water Impacts

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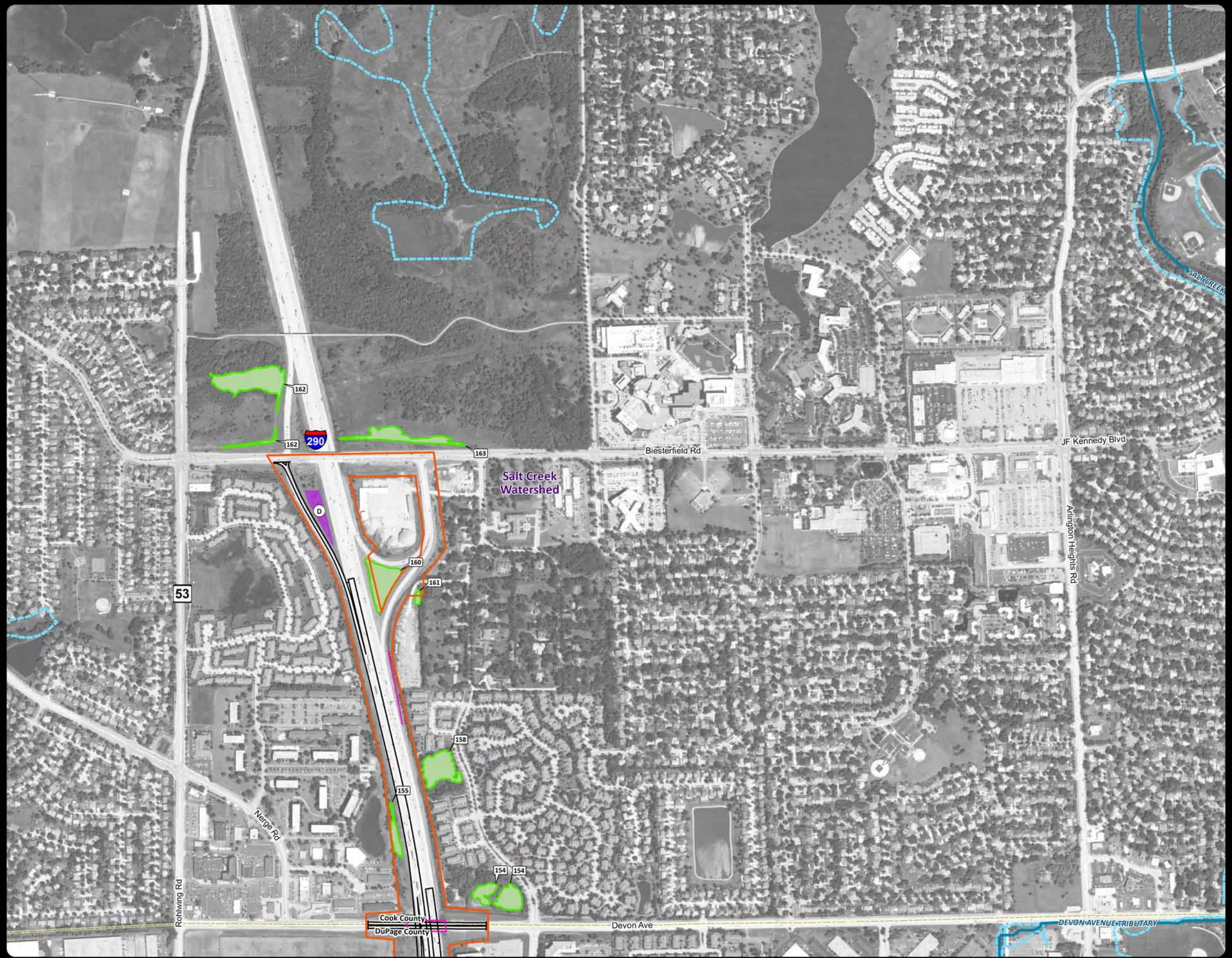


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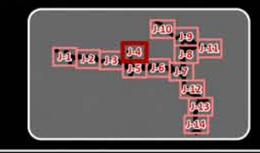


## LEGEND

- Impacted Wetland/Waters
- Wetlands
- Mapped Critical Wetlands
- Surface Waters
- 100-Year Floodplain
- Existing Elgin-O'Hare Detention Ponds
- Potential Stormwater Management Facility
  - CS Compensatory Storage Site
  - D Detention Site
  - PS Pump Station
- Watershed Boundary
- Proposed Edge of Pavement
- Proposed Bridge
- Runway Protection Zone (Proposed and/or Existing)
- O'Hare Airport
- County Boundary
- Project Corridor

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-100-Year Floodplain: CBBEL, 2006; FEMA, 1993; FEMA, 2004; FEMA, 2008
-Existing Elgin-O'Hare Expressway Detention Ponds: Elgin-O'Hare Expressway General Layout Plan, undated
-Watershed Boundary: IEPA, 2002
-Runway Protection Zone: City of Chicago, 2003
-O'Hare Airport: City of Chicago, 2003
-Aerial photography: Airphoto USA, 2008; City of Chicago, 2009
-County Boundary: Tele Atlas North America, Inc., 2008

NORTH

0 400 800 1,600
Feet

# Exhibit J-4
Potential Wetland/ Surface Water Impacts

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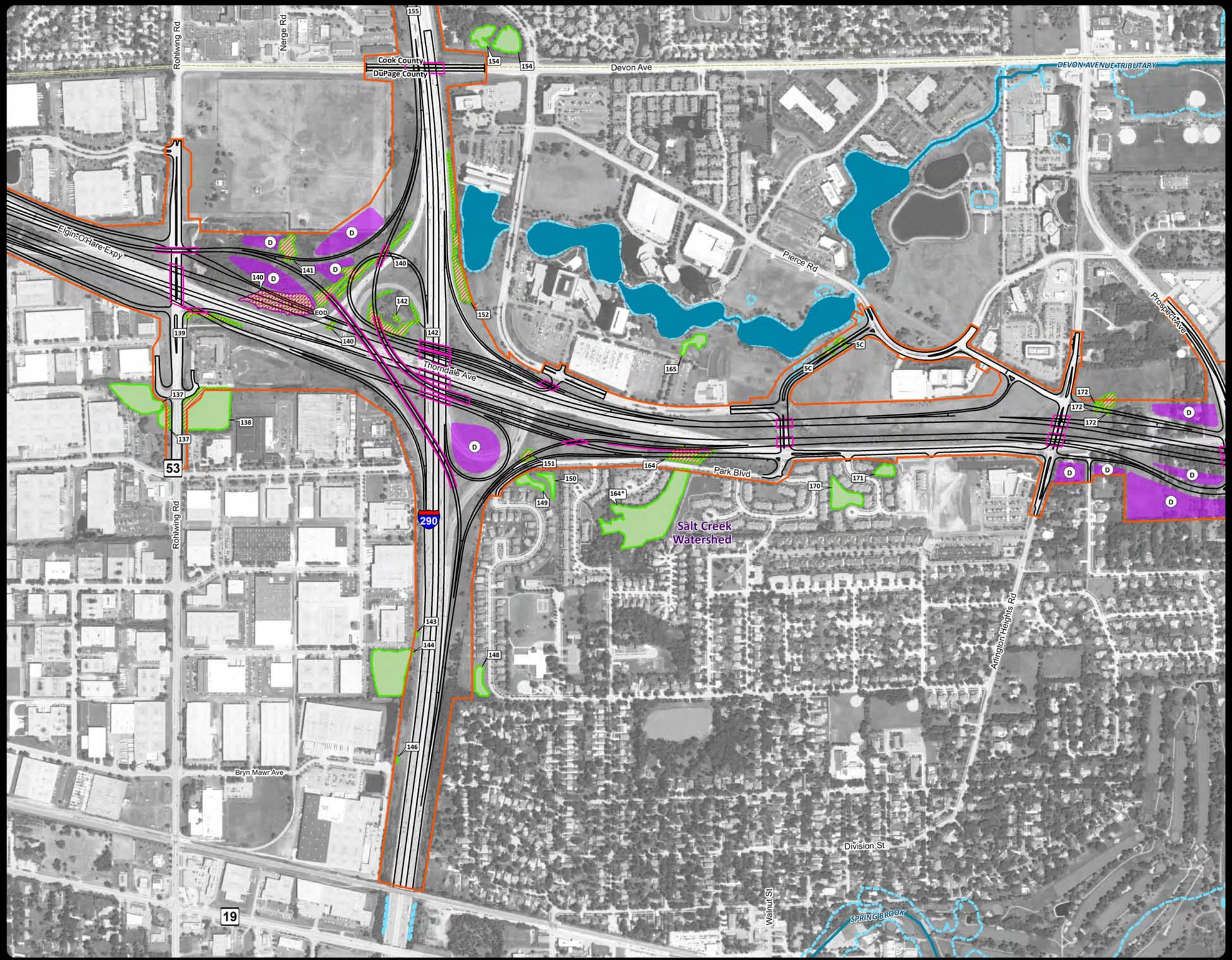


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## LEGEND

- Impacted Wetland/Waters
- Wetlands
- Mapped Critical Wetlands
- Surface Waters
- 100-Year Floodplain
- Existing Elgin-O'Hare Detention Ponds
- Potential Stormwater Management Facility
  - Compensatory Storage Site
  - Detention Site
  - Pump Station
- Watershed Boundary
- Proposed Edge of Pavement
- Proposed Bridge
- Runway Protection Zone (Proposed and/or Existing)
- O'Hare Airport
- County Boundary
- Project Corridor

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-Existing Elgin-O'Hare Expressway Detention Ponds: Elgin-O'Hare Expressway General Layout Plan, undated
-Watershed Boundary: IEPA, 2002
-Runway Protection Zone: City of Chicago, 2003
-O'Hare Airport: City of Chicago, 2003
-Aerial photography: Airphoto USA, 2008; City of Chicago, 2009
-County Boundary: Tele Atlas North America, Inc., 2008

NORTH

0 400 800 1,600
Feet

# Exhibit J-5
Potential Wetland/ Surface Water Impacts

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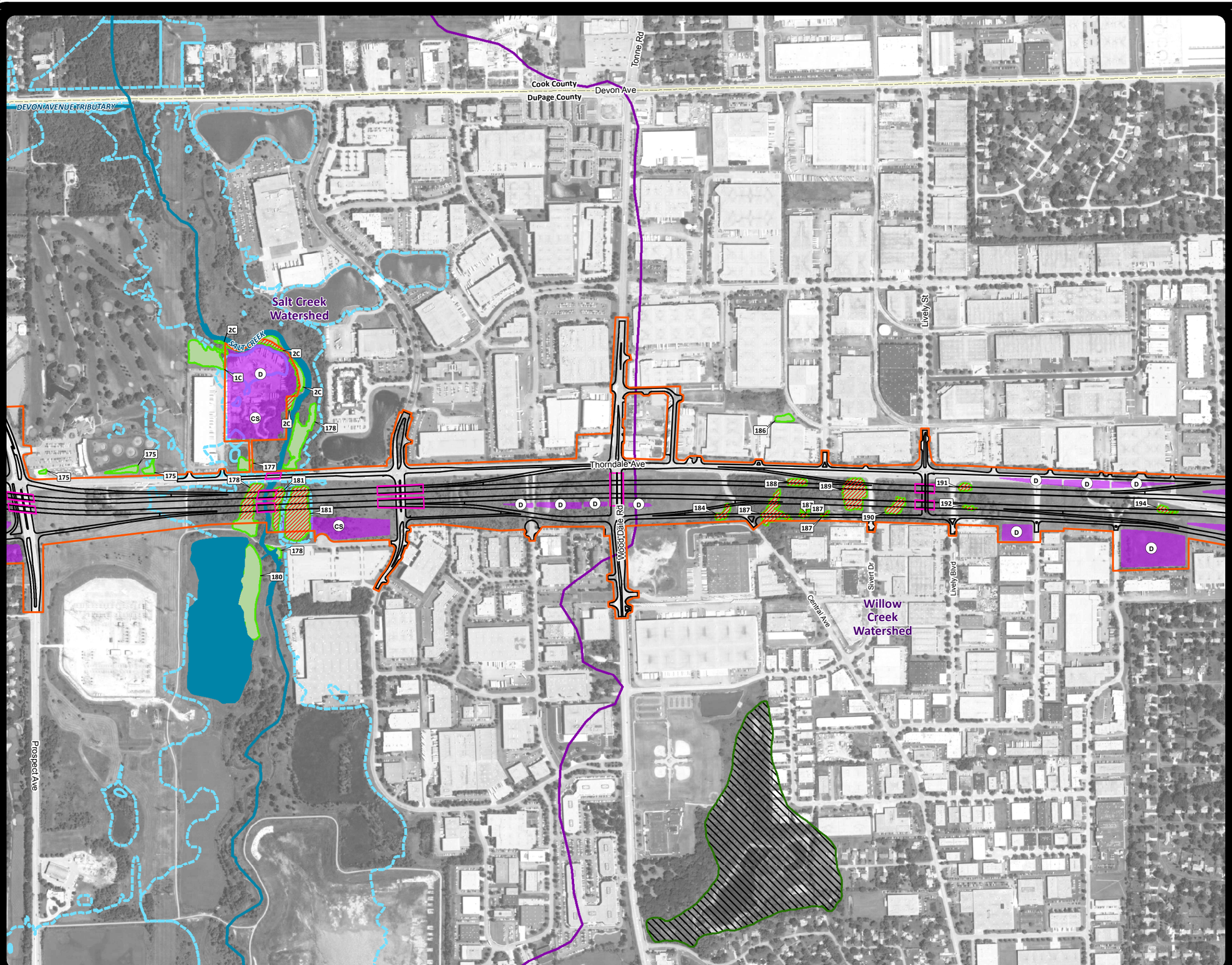


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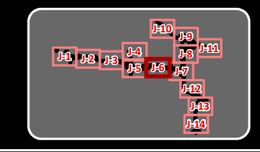


## LEGEND

- Impacted Wetland/Waters
- Wetlands
- Mapped Critical Wetlands
- Surface Waters
- 100-Year Floodplain
- Existing Elgin O'Hare Detention Ponds
- Potential Stormwater Management Facility
  - CS Compensatory Storage Site
  - D Detention Site
  - PS Pump Station
- Watershed Boundary
- Proposed Edge of Pavement
- Proposed Bridge
- Runway Protection Zone (Proposed and/or Existing)
- O'Hare Airport
- County Boundary
- Project Corridor

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-Surface Waters: Cook County, 2006; DuPage County, 2009; IEPA, 2006; Mathews and Zercher, 2010; and Mathews, et al., 2011
-100-Year Floodplain: CBBEL, 2006; FEMA, 1993; FEMA, 2004; FEMA, 2008
-Existing Elgin O'Hare Expressway Detention Ponds: Elgin-O'Hare Expressway General Layout Plan, undated
-Watershed Boundary: IEPA, 2002
-Runway Protection Zone: City of Chicago, 2003
-O'Hare Airport: City of Chicago, 2003
-Aerial photography: Airphoto USA, 2008; City of Chicago, 2009
-County Boundary: Tele Atlas North America, Inc., 2008

NORTH

0 400 800 1,600
Feet

# Exhibit J-6

Potential Wetland/ Surface Water Impacts

Path: N:\idot\070404\GIS\Exhibits\Tier 2\Wetlands\Impact Sheets\Exhibits\Impact Sheets.mxd

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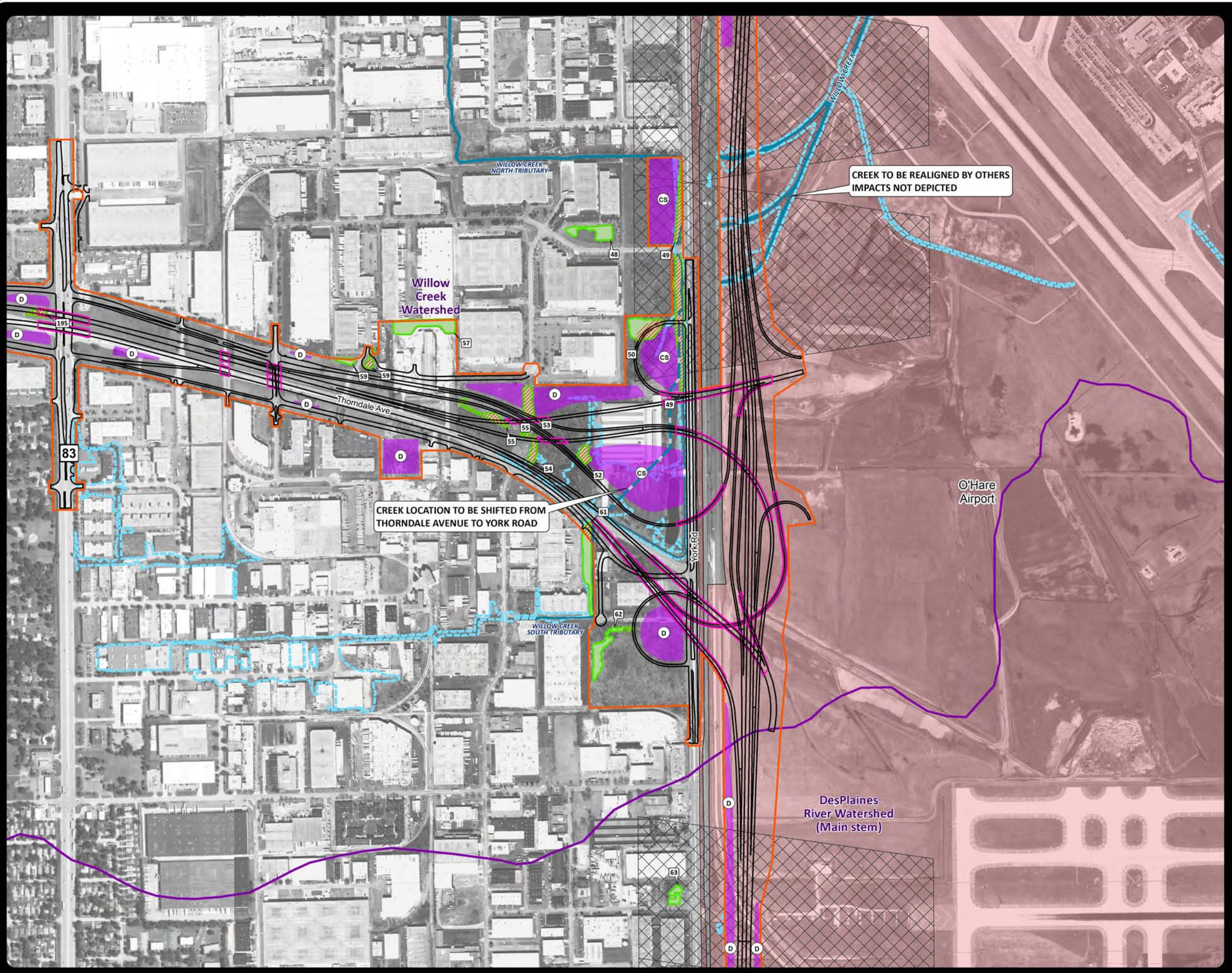


## LEGEND

- Impacted Wetland/Waters
- Wetlands
- Mapped Critical Wetlands
- Surface Waters
- 100-Year Floodplain
- Existing Elgin-O'Hare Detention Ponds
- Potential Stormwater Management Facility
  - CS Compensatory Storage Site
  - D Detention Site
  - PS Pump Station
- Watershed Boundary
- Proposed Edge of Pavement
- Proposed Bridge
- Runway Protection Zone (Proposed and/or Existing)
- O'Hare Airport
- County Boundary
- Project Corridor

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-100-Year Floodplain: CBBEL, 2006; FEMA, 1993; FEMA, 2004; FEMA, 2008
-Existing Elgin-O'Hare Expressway Detention Ponds: Elgin-O'Hare Expressway General Layout Plan, undated
-Watershed Boundary: IEPA, 2002
-Runway Protection Zone: City of Chicago, 2003
-O'Hare Airport: City of Chicago, 2003
-Aerial photography: Airphoto USA, 2008; City of Chicago, 2009
-County Boundary: Tele Atlas North America, Inc., 2008

NORTH

0 400 800 1,600
Feet

**Exhibit J-7**
Potential Wetland/ Surface Water Impacts

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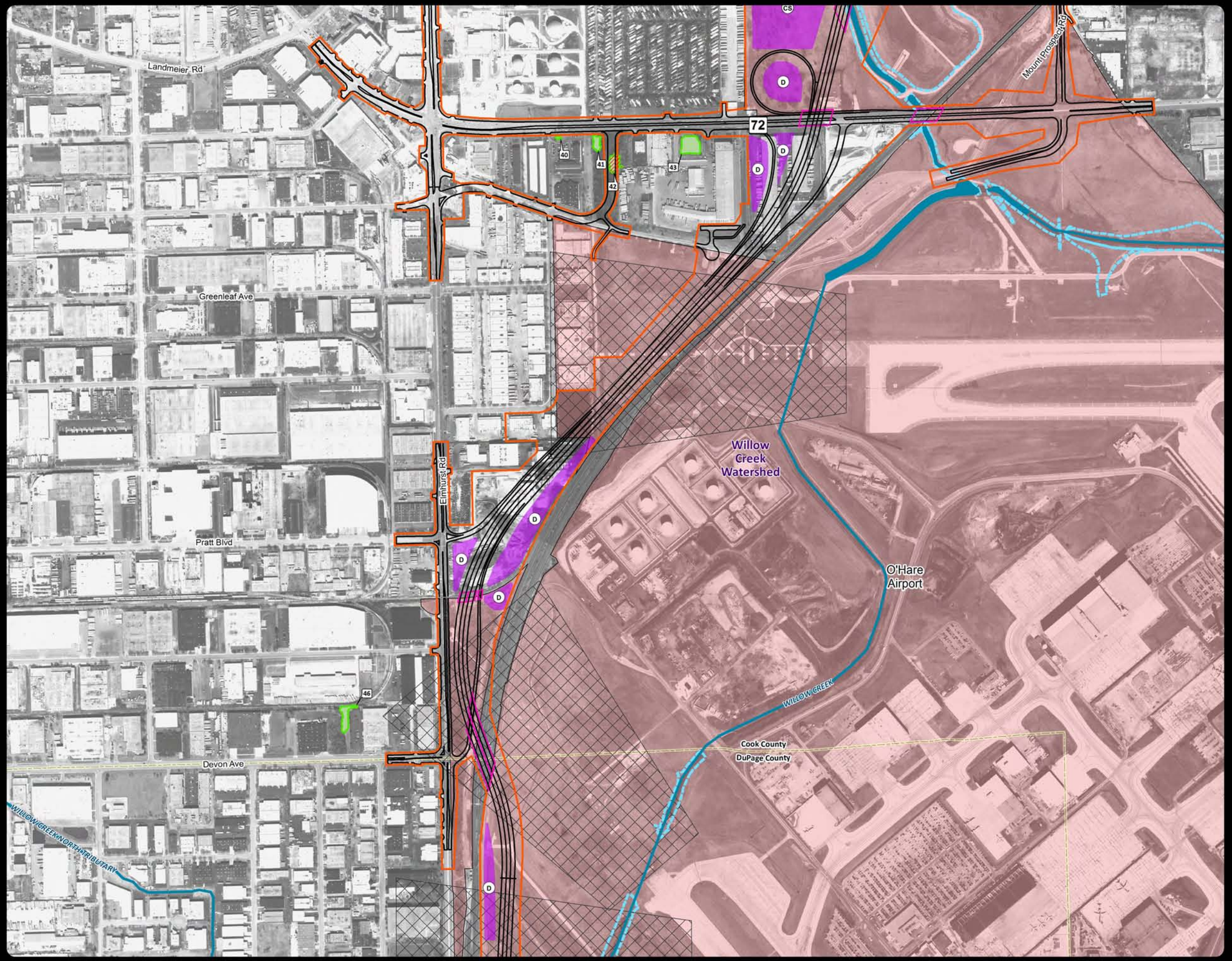


## LEGEND

- Impacted Wetland/Waters
- Wetlands
- Mapped Critical Wetlands
- Surface Waters
- 100-Year Floodplain
- Existing Elgin-O'Hare Detention Ponds
- Potential Stormwater Management Facility
  - CS Compensatory Storage Site
  - D Detention Site
  - PS Pump Station
- Watershed Boundary
- Proposed Edge of Pavement
- Proposed Bridge
- Runway Protection Zone (Proposed and/or Existing)
- O'Hare Airport
- County Boundary
- Project Corridor

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-100-Year Floodplain: CBBEL, 2006; FEMA, 1993; FEMA, 2004; FEMA, 2008
-Existing Elgin-O'Hare Expressway Detention Ponds: Elgin-O'Hare Expressway General Layout Plan, undated
-Watershed Boundary: IEPA, 2002
-Runway Protection Zone: City of Chicago, 2003
-O'Hare Airport: City of Chicago, 2003
-Aerial photography: Airphoto USA, 2008; City of Chicago, 2009
-County Boundary: Tele Atlas North America, Inc., 2008

NORTH

0 400 800 1,600 Feet

**Exhibit J-8**
Potential Wetland/ Surface Water Impacts

Path: N:\idot\070404\GIS\Exhibits\Tier 2\Wetlands\Impact Sheets\Exhibits\Impact Sheets.mxd

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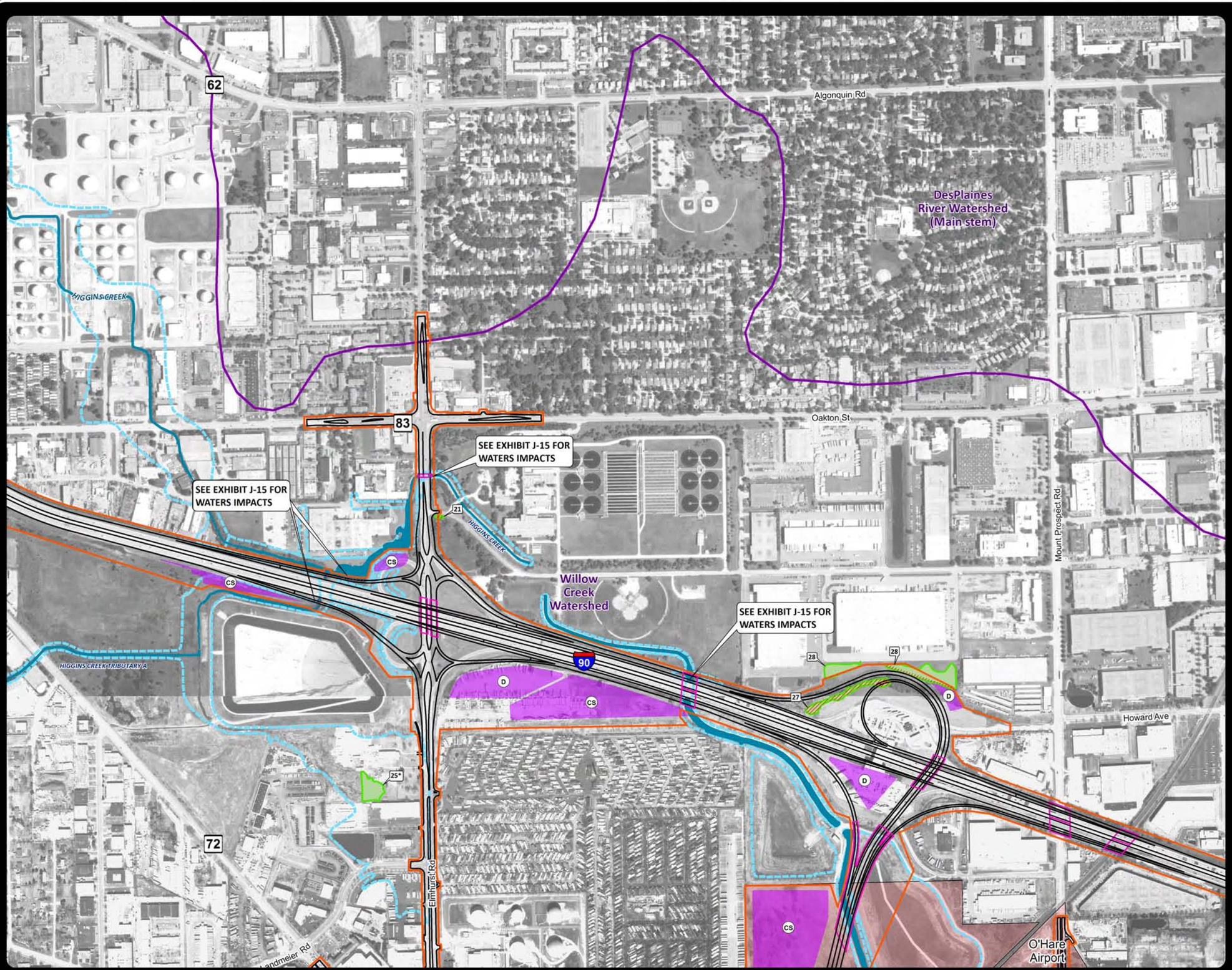


## LEGEND

- Impacted Wetland/Waters
- Wetlands
- Mapped Critical Wetlands
- Surface Waters
- 100-Year Floodplain
- Existing Elgin-O'Hare Detention Ponds
- Potential Stormwater Management Facility
  - CS Compensatory Storage Site
  - D Detention Site
  - PS Pump Station
- Watershed Boundary
- Proposed Edge of Pavement
- Proposed Bridge
- Runway Protection Zone (Proposed and/or Existing)
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-Watershed Boundary: IEPA, 2002
-Runway Protection Zone: City of Chicago, 2003
-O'Hare Airport: City of Chicago, 2003
-Aerial photography: Airphoto USA, 2008; City of Chicago, 2009
-County Boundary: Tele Atlas North America, Inc., 2008

NORTH

0 400 800 1,600
Feet

# Exhibit J-9
Potential Wetland/ Surface Water Impacts

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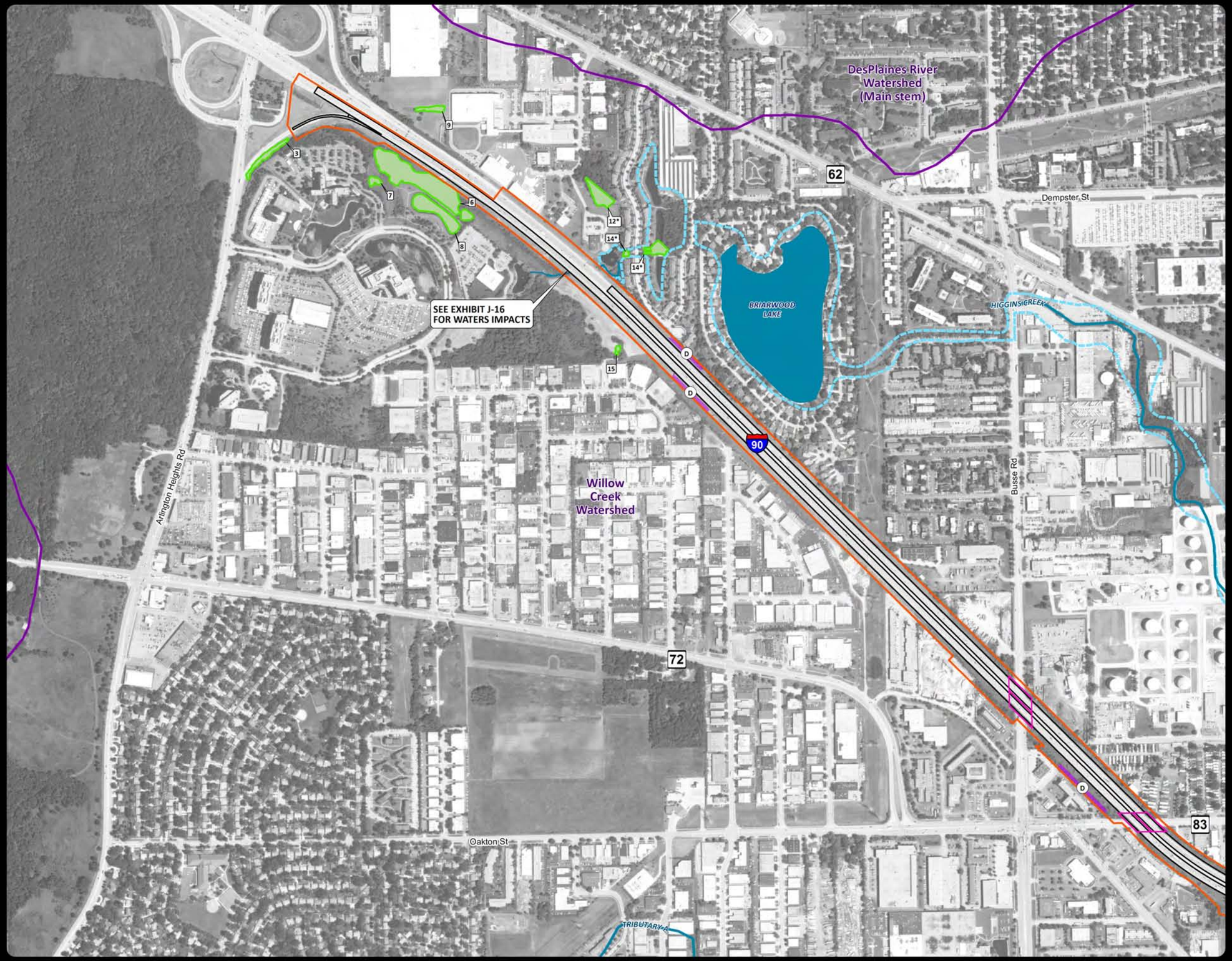


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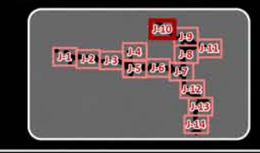


## LEGEND

- Impacted Wetland/Waters
- Wetlands
- Mapped Critical Wetlands
- Surface Waters
- 100-Year Floodplain
- Existing Elgin-O'Hare Detention Ponds
- Potential Stormwater Management Facility
  - Compensatory Storage Site
  - Detention Site
  - Pump Station
- Watershed Boundary
- Proposed Edge of Pavement
- Proposed Bridge
- Runway Protection Zone (Proposed and/or Existing)
- O'Hare Airport
- County Boundary
- Project Corridor

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-Runway Protection Zone: City of Chicago, 2003
-O'Hare Airport: City of Chicago, 2003
-Aerial photography: Airphoto USA, 2008; City of Chicago, 2009
-County Boundary: Tele Atlas North America, Inc., 2008

NORTH

0 400 800 1,600
Feet

# Exhibit J-10

Potential Wetland/ Surface Water Impacts

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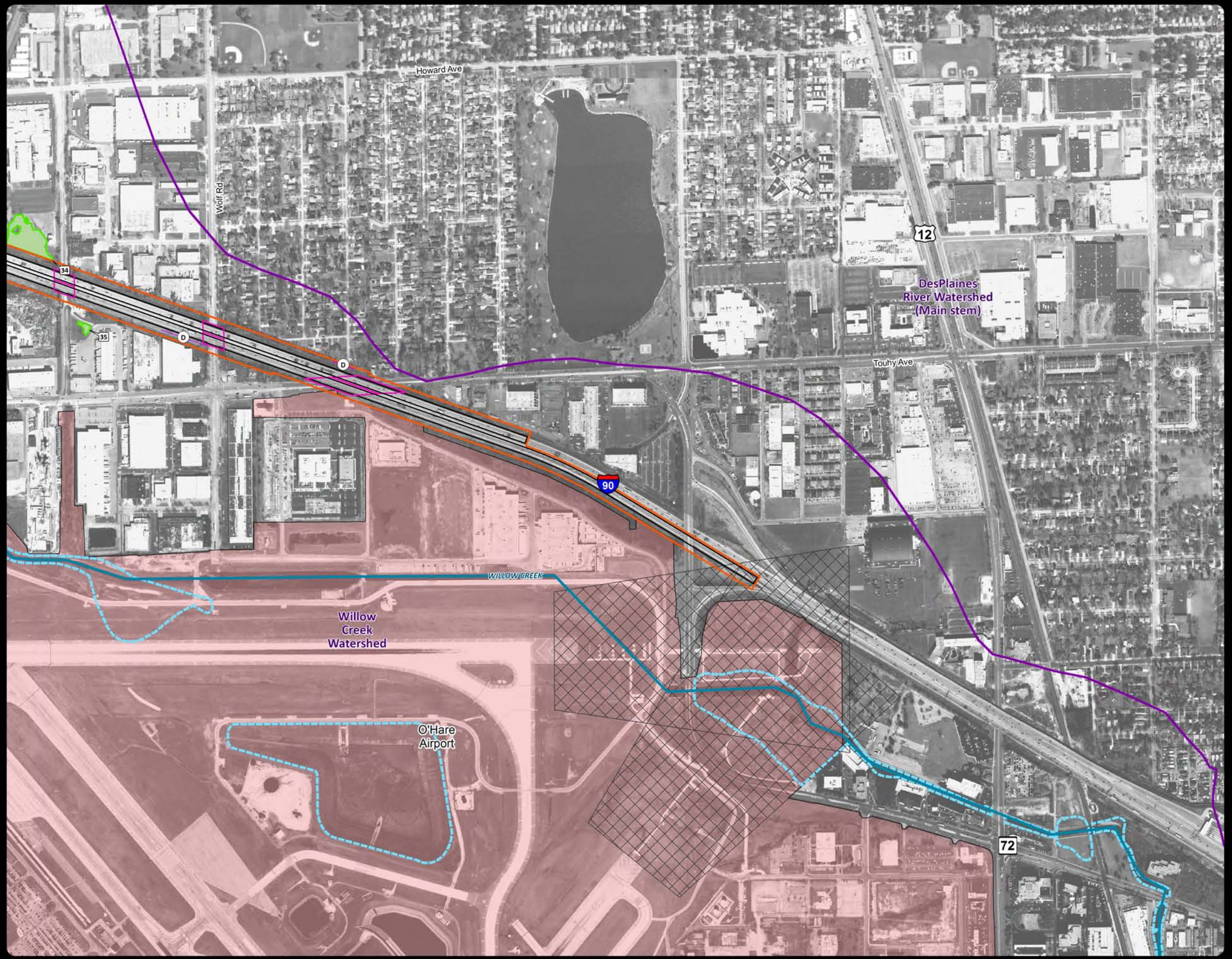


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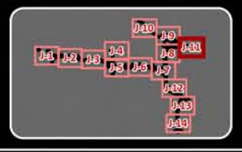


## LEGEND

- Impacted Wetland/Waters
- Wetlands
- Mapped Critical Wetlands
- Surface Waters
- 100-Year Floodplain
- Existing Elgin-O'Hare Detention Ponds
- Potential Stormwater Management Facility
  - Compensatory Storage Site
  - Detention Site
  - Pump Station
- Watershed Boundary
- Proposed Edge of Pavement
- Proposed Bridge
- Runway Protection Zone (Proposed and/or Existing)
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- Project Corridor

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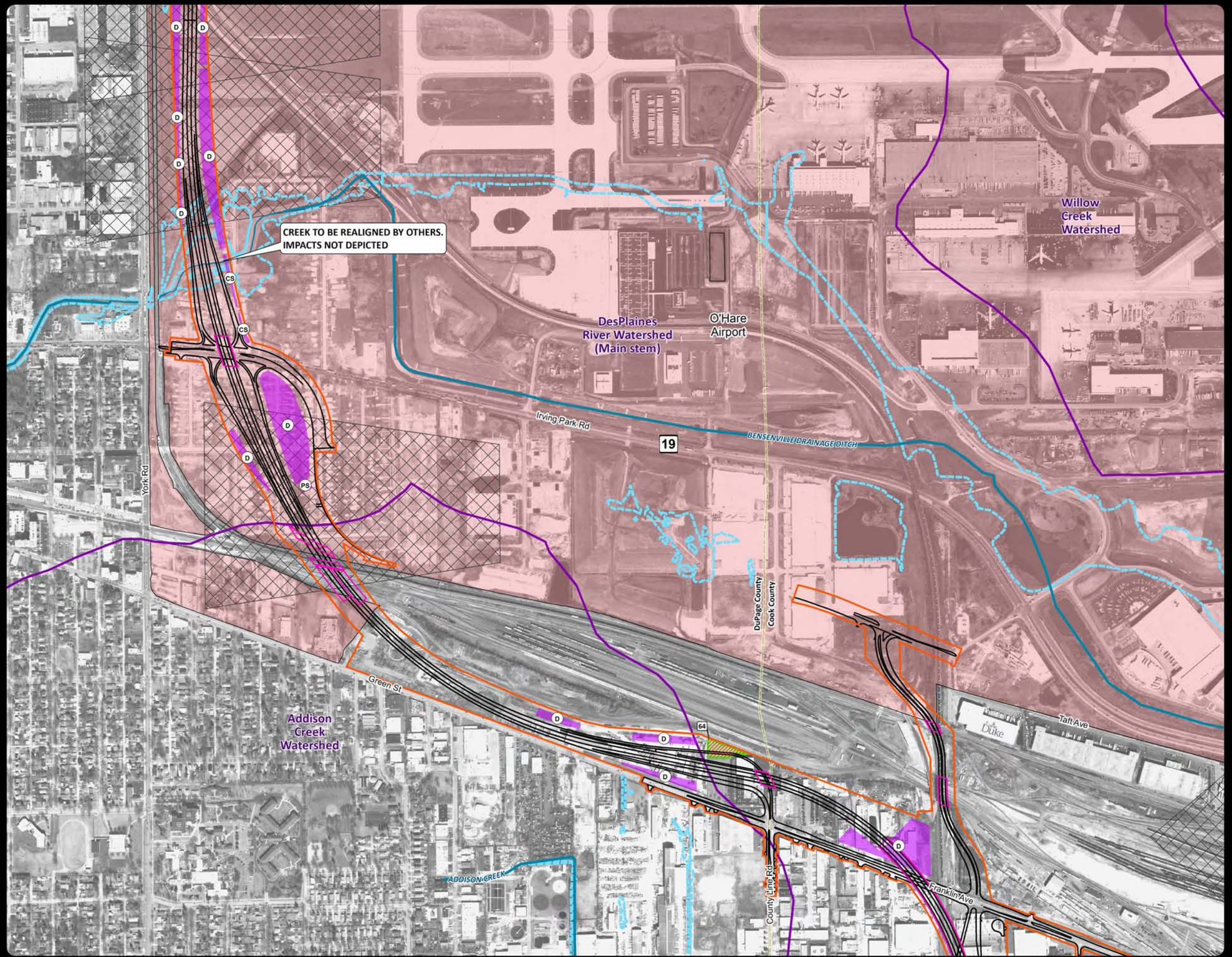
-Runway Protection Zone: City of Chicago, 2003
-O'Hare Airport: City of Chicago, 2003
-Aerial photography: Airphoto USA, 2008; City of Chicago, 2009
-County Boundary: Tele Atlas North America, Inc., 2008

NORTH

0 400 800 1,600
Feet

**Exhibit J-11**
Potential Wetland/
Surface Water Impacts

Path: N:\dot\070404\GIS\Exhibits\Tier 2\Wetlands\Impact Sheets\Exhibit\Impact Sheets.mxd

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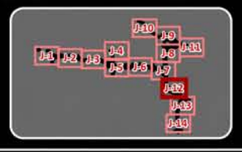


## LEGEND

- Impacted Wetland/Waters
- Wetlands
- Mapped Critical Wetlands
- Surface Waters
- 100-Year Floodplain
- Existing Elgin-O'Hare Detention Ponds
- Potential Stormwater Management Facility
  - CS Compensatory Storage Site
  - D Detention Site
  - PS Pump Station
- Watershed Boundary
- Proposed Edge of Pavement
- Proposed Bridge
- Runway Protection Zone (Proposed and/or Existing)
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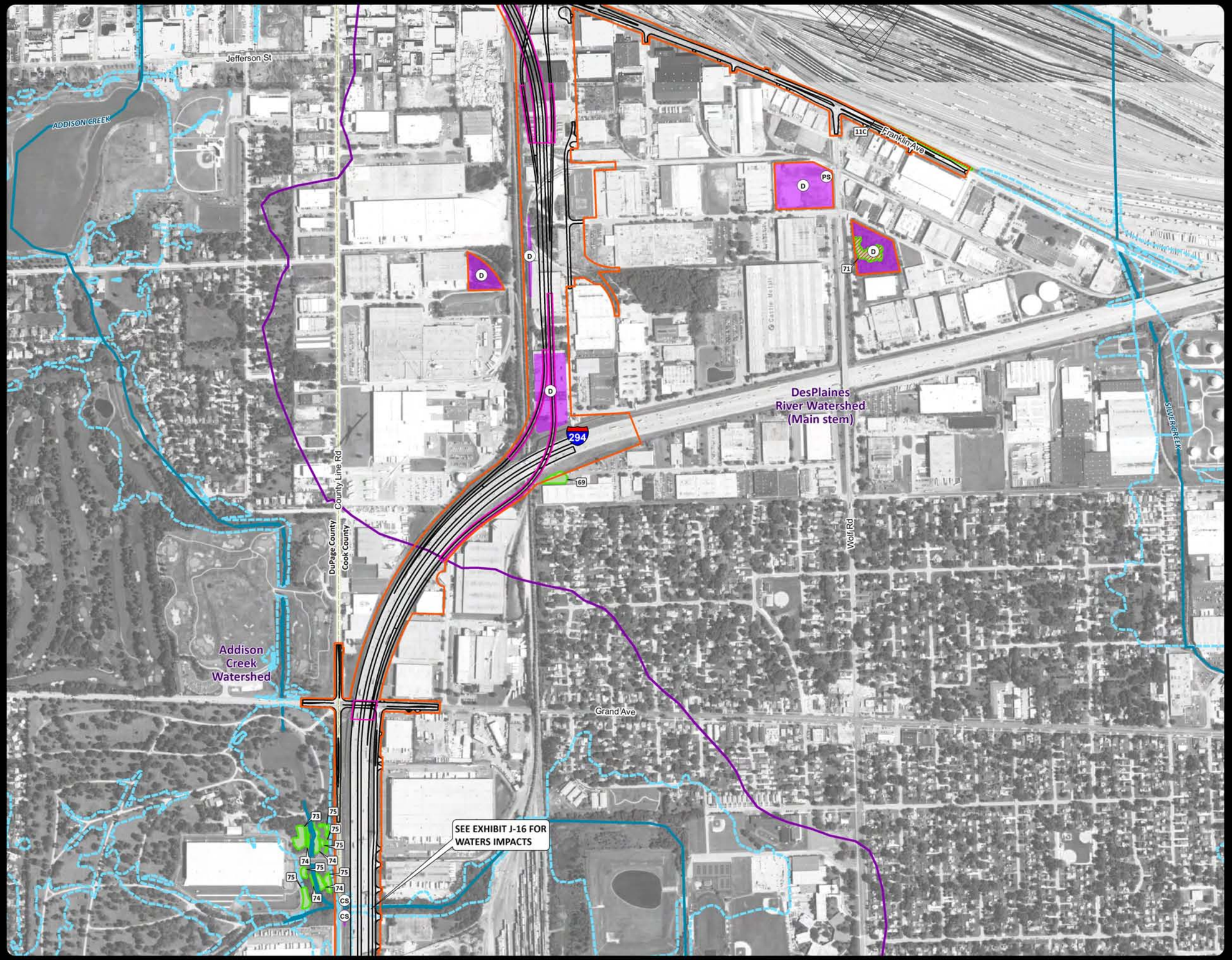
-Watershed Boundary: IEPA, 2002
-Runway Protection Zone: City of Chicago, 2003
-O'Hare Airport: City of Chicago, 2003
-Aerial photography: Airphoto USA, 2008; City of Chicago, 2009
-County Boundary: Tele Atlas North America, Inc., 2008

NORTH

0 400 800 1,600
Feet

**Exhibit J-12**
Potential Wetland/
Surface Water Impacts

Path: K:\dot\070404\GIS\Exhibits\Tier 2\Wetlands\Impact Sheets\Exhibits\Impact Sheets.mxd

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## LEGEND

- Impacted Wetland/Waters
- Wetlands
- Mapped Critical Wetlands
- Surface Waters
- 100-Year Floodplain
- Existing Elgin-O'Hare Detention Ponds
- Potential Stormwater Management Facility
  - CS Compensatory Storage Site
  - D Detention Site
  - PS Pump Station
- Watershed Boundary
- Proposed Edge of Pavement
- Proposed Bridge
- Runway Protection Zone (Proposed and/or Existing)
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- County Boundary
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-Watershed Boundary: IEPA, 2002
-Runway Protection Zone: City of Chicago, 2003
-O'Hare Airport: City of Chicago, 2003
-Aerial photography: Airphoto USA, 2008; City of Chicago, 2009
-County Boundary: Tele Atlas North America, Inc., 2008

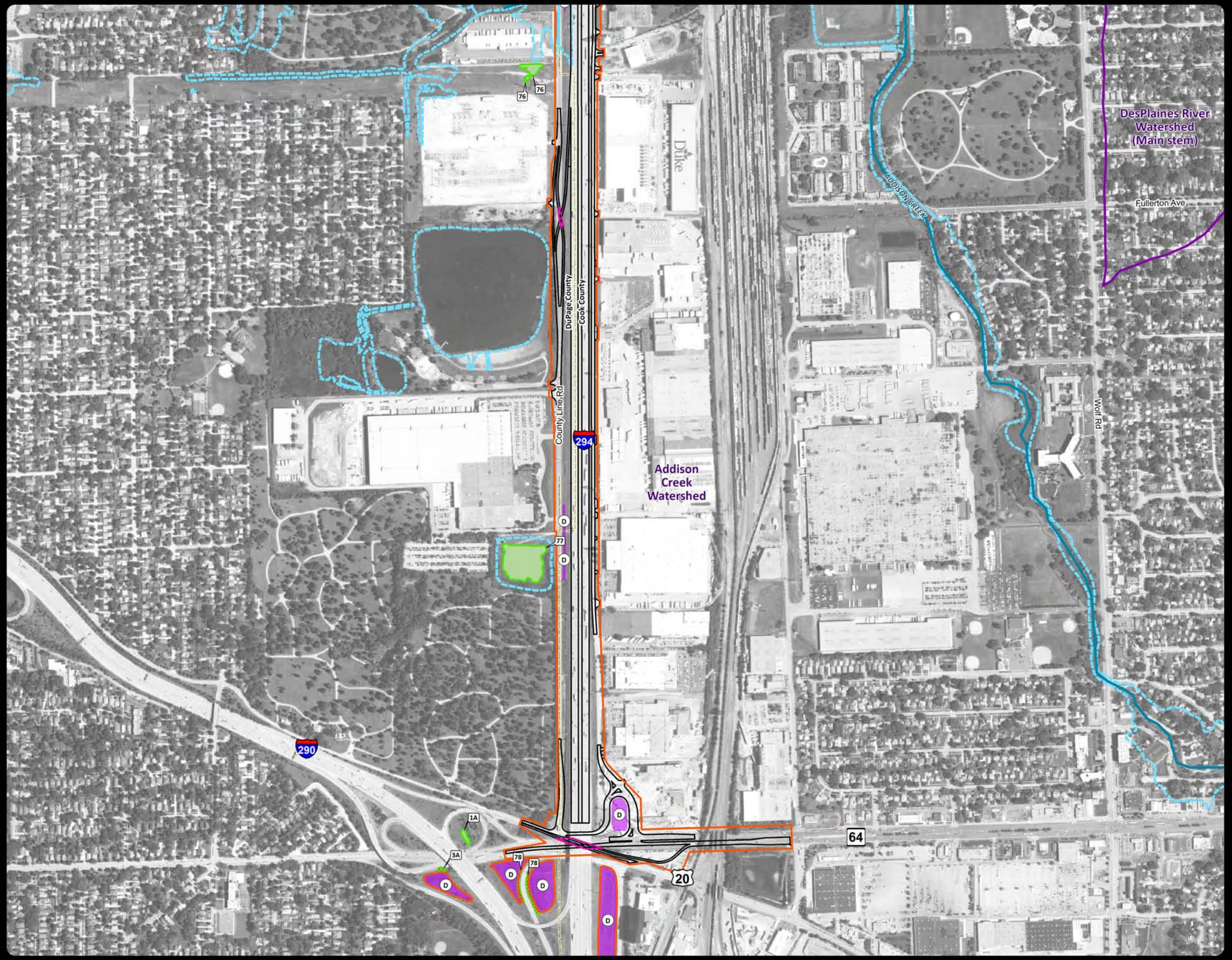
NORTH

0 400 800 1,600
Feet

# Exhibit J-13

Potential Wetland/ Surface Water Impacts

Path: N:\dot\070404\GIS\Exhibits\Tier 2\Wetlands\Impact Sheets\Exhibits\Impact Sheets.mxd

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## LEGEND

- Impacted Wetland/Waters
- Wetlands
- Mapped Critical Wetlands
- Surface Waters
- 100-Year Floodplain
- Existing Elgin-O'Hare Detention Ponds
- Potential Stormwater Management Facility
  - Compensatory Storage Site
  - Detention Site
  - Pump Station
- Watershed Boundary
- Proposed Edge of Pavement
- Proposed Bridge
- Runway Protection Zone (Proposed and/or Existing)
- O'Hare Airport
- County Boundary
- Project Corridor

Notes:
-Wetland Id numbers with an * represent wetlands that extend beyond the limits of this study (i.e., the entire wetland is not shown).
-Some creek boundaries located outside of project corridor have been revised based on aerial interpretation.

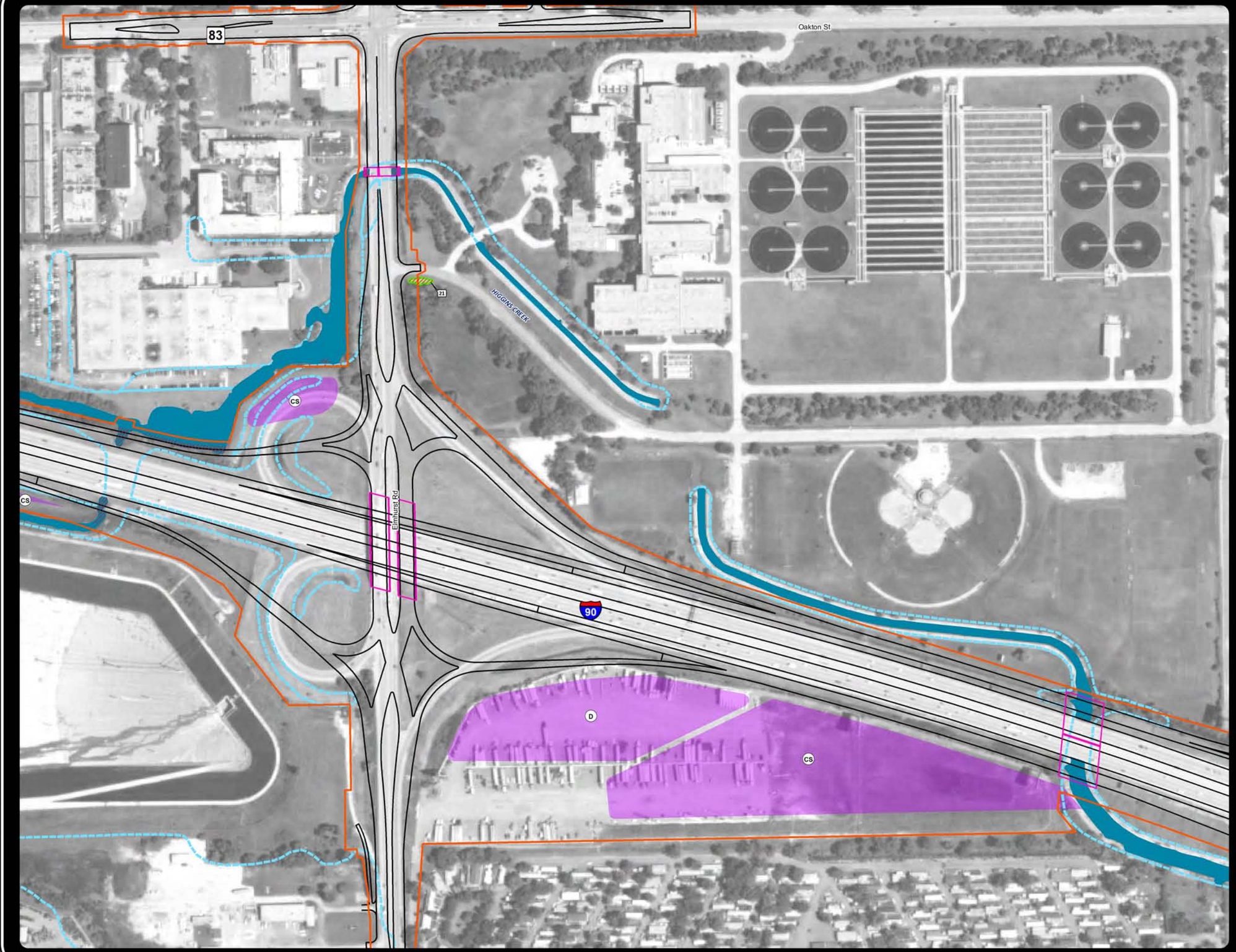
Sources:
-Wetlands: Matthews et al., 2009; Matthews et al., 2010; Matthews et al., 2011
-Mapped Critical Wetlands: DuPage County Wetland Inventory, 2006
-Surface Waters: Cook County, 2006; DuPage County, 2009; IEPA, 2006; Matthews and Zercher, 2010; and Matthews, et al., 2011
-100-Year Floodplain: CBBEL, 2006; FEMA, 1993; FEMA, 2004; FEMA, 2008
-Existing Elgin-O'Hare Expressway Detention Ponds: Elgin-O'Hare Expressway General Layout Plan, undated
-Watershed Boundary: IEPA, 2002
-Runway Protection Zone: City of Chicago, 2003
-O'Hare Airport: City of Chicago, 2003
-Aerial photography: Airphoto USA, 2008; City of Chicago, 2009
-County Boundary: Tele Atlas North America, Inc., 2008

NORTH

0 400 800 1,600
Feet

# Exhibit J-14
Potential Wetland/ Surface Water Impacts

Path: N:\idot\070404\GIS\Exhibits\Tier 2\Wetlands\Impact Sheets\Exhibits\Impact Sheets.mxd

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## LEGEND

- Impacted Wetland/Waters
- Wetlands
- Mapped Critical Wetlands
- Surface Waters
- 100-Year Floodplain
- Existing Elgin-O'Hare Detention Ponds
- Potential Stormwater Management Facility
  - CS Compensatory Storage Site
  - D Detention Site
  - PS Pump Station
- Watershed Boundary
- Proposed Edge of Pavement
- Proposed Bridge
- Runway Protection Zone (Proposed and/or Existing)
- O'Hare Airport
- County Boundary
- Project Corridor

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-Surface Waters: Cook County, 2006; DuPage County, 2009; IEPA, 2006; Matthews and Zercher, 2010; and Matthews, et al., 2011
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-Watershed Boundary: IEPA, 2002
-Runway Protection Zone: City of Chicago, 2003
-O'Hare Airport: City of Chicago, 2003
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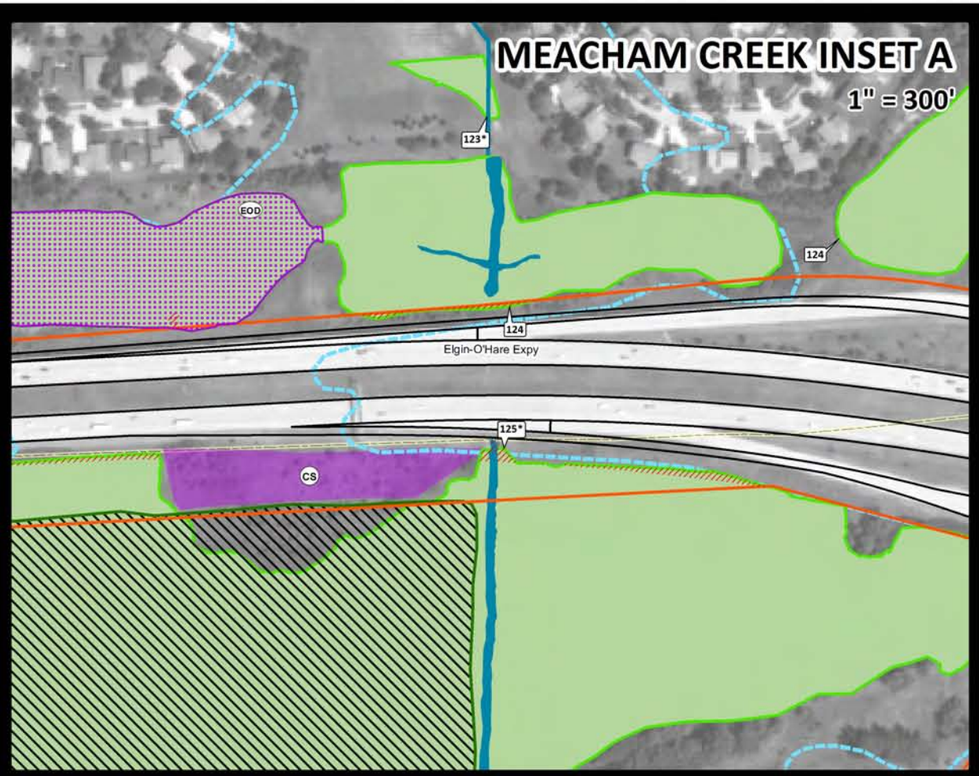
-County Boundary: Tele Atlas North America, Inc., 2008

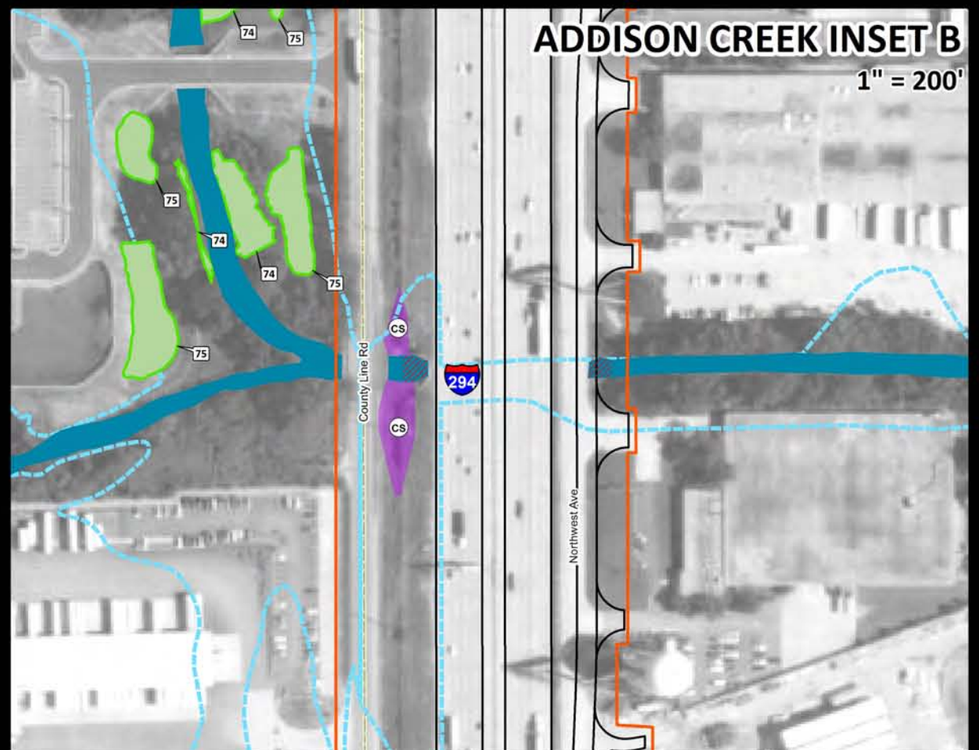
NORTH

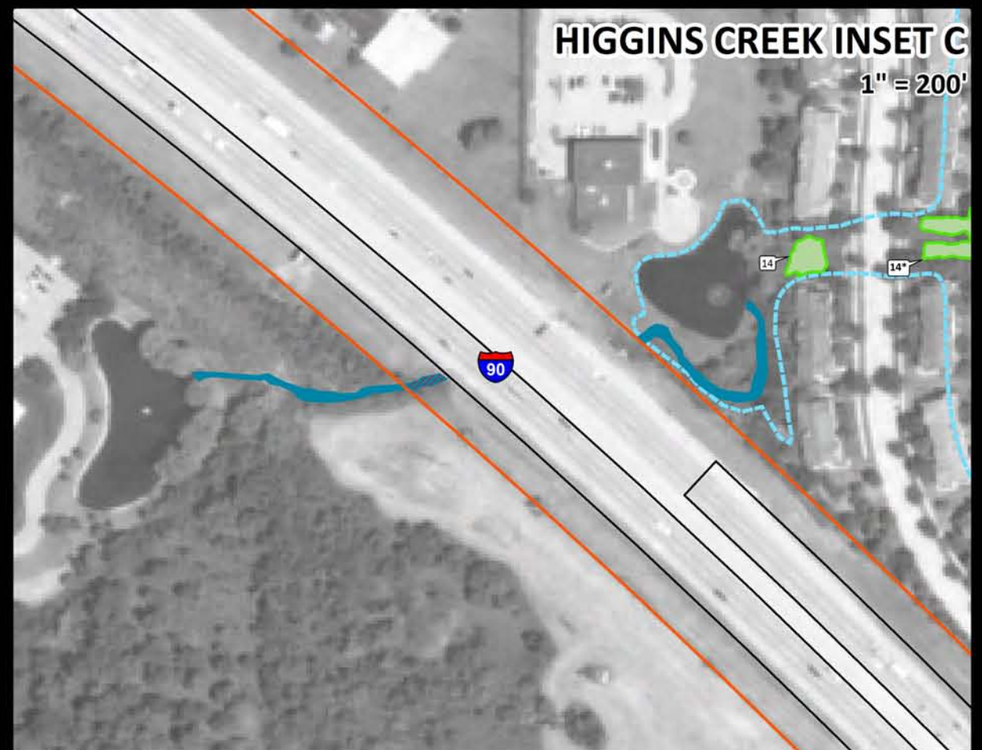
0 150 300 600
Feet

# Exhibit J-15
Potential Wetland/ Surface Water Impacts

Path: N:\idot\070404\GIS\Exhibits\Tier 2\Wetlands\Impact Sheets\Exhibits\Waters Impact Sheet 2.mxd

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## LEGEND

- Impacted Wetland/Waters
- Wetlands
- Mapped Critical Wetlands
- Surface Waters
- 100-Year Floodplain
- Existing Elgin-O'Hare Detention Ponds
- Potential Stormwater Management Facility
  - CS Compensatory Storage Site
  - D Detention Site
  - PS Pump Station
- Watershed Boundary
- Proposed Edge of Pavement
- Proposed Bridge
- Runway Protection Zone (Proposed and/or Existing)
- O'Hare Airport
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-Existing Elgin-O'Hare Expressway Detention Ponds: Elgin-O'Hare Expressway General Layout Plan, undated
-Watershed Boundary: IEPA, 2002
-Runway Protection Zone: City of Chicago, 2003
-O'Hare Airport: City of Chicago, 2003
-Aerial photography: Airphoto USA, 2008; City of Chicago, 2009
-County Boundary: Tele Atlas North America, Inc., 2008

NORTH

**Exhibit J-16**
Potential Wetland/
Surface Water Impacts

Path: N:\Idot\070404\GIS\Exhibits\Tier 2\Wetlands\Impact Sheets\Exhibits\Waters Impact Sheet 1.mxd