Volume 3 of the Ontario Provincial Standard Drawings (OPSD), and the current City of London Standard Drawings, are amended as follows:

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LIMIT OF RESTORATION
600 TYPICAL EACH SIDE

50mm HL3 ASPHALT WITH
45° HAND -TAMPED EDGE
(SEE NOTE 1)

PARK STANDARD SEED

SCREENED TOPSOIL
AS REQUIRED

150mm MINIMUM
GRANULAR 'A' BASE
COMPACTED TO 98% S.P.D.D.
(SEE NOTE 2)

SUITE EXISTING SUB-
GRADE COMPACTED TO
98% S.P.D.D. OR IN
ACCORDANCE WITH
GEO TECHNICAL
RECOMMENDATIONS

50
150
WIDTH VARIES
SLOPE TO DRAIN
(SEE NOTE 3)

EXISTING GRADE

NOTES:

1. ASPHALT SURFACE TO BE ONE (1) 50mm LAYER
(AFTER COMPACTION) OF HOT MIX HL3 IN ACCORDANCE
WITH O.P.S.S. 310. ASPHALT EDGE TO BE
45° HAND TAMPED SMOOTH EDGE WITHOUT
LATERAL DEVIATIONS.

2. GRANULAR BASE MATERIAL SHALL BE
IN ACCORDANCE WITH O.P.S.S. 1010.

3. FINISHED SLOPE ON PATHWAY SURFACE
TO BE 1% MINIMUM CROWNED
OR CROSS-SLOPED TO SUIT
EXISTING AND/OR PROPOSED GRADES.

4. ALL DIMENSIONS IN MILLIMETRES.

CITY OF LONDON STANDARD DRAWING

ASPHALT PATHWAY

DWG SPO - 1.1 DATE 2002 01 14 APPROVED BY
PARKS PLANNING & DESIGN
NOTES:

1. ASPHALT SURFACE TO BE ONE (1) 50mm LAYER (AFTER COMPACTION) OF HOT MIX HL3 IN ACCORDANCE WITH O.P.S.S. 310. ASPHALT EDGE TO BE 45° HAND TAMPERED SMOOTH EDGE WITHOUT LATERAL DEVIATIONS.

2. GRANULAR BASE MATERIAL SHALL BE IN ACCORDANCE WITH O.P.S.S. 1010.

3. FINISHED SLOPE ON PATHWAY SURFACE TO BE 1% MINIMUM CROWNED OR CROSS-SLOPED TO SUIT EXISTING AND/OR PROPOSED GRADES.

4. CENTRELINE MARKING SHALL BE IN ACCORDANCE WITH O.P.S.S. 532

5. THIS DETAIL IS NOT TO BE USED AS A MAINTENANCE ACCESS PATHWAY

6. ALL DIMENSIONS IN MILLIMETRES.
TOP OF FINISHED PATHWAY TO BE SET 25mm HIGHER THAN EXISTING GRADE

PARK STANDARD SEED

EXISTING/IMPORTED SCREENED TOPSOIL EDGE AS REQUIRED

LIMIT OF RESTORATION 600 TYP. EACH SIDE

WIDTH VARIES

SLOPE TO DRAIN (SEE NOTE 2)

EX. GRADE

150mm CRUSHED LIMESTONE SCREENINGS COMPACTED TO 98% S.P.D.D. (SEE NOTE 1)

SUITABLE EXISTING SUBGRADE COMPACTED TO 98% S.P.D.D. OR IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS

NOTES:

1. CRUSHED LIMESTONE SCREENINGS SHALL CONFORM TO THE FOLLOWING MECHANICAL SIEVE GRADATIONS:

<table>
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<th>SIEVE SIZE</th>
<th>SPECIFIC REQUIREMENT</th>
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<tr>
<td>%6</td>
<td>100%</td>
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<tr>
<td>*4</td>
<td>50-100%</td>
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<td>*16</td>
<td>20-55%</td>
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<td>*50</td>
<td>10-30%</td>
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<tr>
<td>*200</td>
<td>0-12%</td>
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2. FINISHED SLOPE ON PATHWAY SURFACE TO BE 1% MINIMUM CROWNED OR CROSS-SLOPED TO SUIT EXISTING AND/OR PROPOSED GRADES.

3. FINISHED LINEAR SLOPE ON PATHWAY NOT TO EXCEED 4%.

4. ALL DIMENSIONS IN MILLIMETRES.

CITY OF LONDON STANDARD DRAWING

GRANULAR PATHWAY

DWG SPO - 1.3 DATE 2002 12 18 APPROVED BY PARKS PLANNING & DESIGN
LIMIT OF RESTORATION
600 TYP. EACH SIDE

400 TYP.

3200

SLOPE TO DRAIN
(SEE NOTE 3)

SUITABLE EXISTING SUB- GRADE COMPACTED TO 98% S.P.D.D. OR IN ACCORDANCE WITH GEOTECHNICAL REPORT

EXISTING GRADE

150mm GRANULAR 'A'
BASE COMPACTED TO 98% S.P.D.D.
(SEE NOTE 1)

375mm GRANULAR 'B'
SUBBASE COMPACTED TO 98% S.P.D.D. OR AS SPECIFIED BY THE GEOTECHNICAL REPORT
(SEE NOTE 1)

NOTES:

1. GRANULAR BASE MATERIAL SHALL BE IN ACCORDANCE WITH O.P.S.S. 1010

2. ASPHALT SURFACE TO BE ONE (1) 75mm LAYER 
(AFTER COMPACTION) OF HOT MIX HL3 IN ACCORDANCE WITH O.P.S.S. 310. ASPHALT EDGE TO BE 45° HAND TAMPED SMOOTH EDGE WITHOUT LATERAL DEVIATIONS.

3. ASPHALT ACCESS ROADS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 4%. CROSS SLOPE SHALL BE 1% MINIMUM AND 2% MAXIMUM.

4. ALL DIMENSIONS IN MILLIMETRES.

CITY OF LONDON STANDARD DRAWING

ASPHALT MAINTENANCE ACCESS ROAD

DWG SPO - 1.4A DATE 2012 08 27 APPROVED BY PARKS PLANNING & DESIGN
NOTES:
1. ALL DIMENSIONS IN MILLIMETRES.
PARK STANDARD SEED

75mm TOPSOIL IN ACCORDANCE WITH THE CITY OF LONDON'S STANDARD SPECIFICATION FOR TOPSOIL.

SLOPE TO DRAIN
(SEE NOTE 2)

4000

75

150

SUITABLE EXISTING SUB- GRADE COMPACTED TO 98% S.P.D.D. OR IN ACCORDANCE WITH GEOTECHNICAL REPORT

EXISTING GRADE

150mm GRANULAR 'A' BASE COMPACTED TO 98% S.P.D.D. (SEE NOTE 1)

375mm GRANULAR 'B' SUBBASE COMPACTED TO 98% S.P.D.D. OR AS SPECIFIED BY THE GEOTECHNICAL REPORT (SEE NOTE 1)

NOTES:
1. GRANULAR BASE MATERIAL SHALL BE IN ACCORDANCE WITH O.P.S.S. 1010

2. TURF ACCESS ROADS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 4%. CROSS SLOPE SHALL BE 2% MINIMUM AND 4.5% MAXIMUM.

3. ALL DIMENSIONS IN MILLIMETRES.

CITY OF LONDON STANDARD DRAWING

TURF MAINTENANCE ACCESS ROAD

DWG SP0 - 1.4C DATE 2012 08 30 APPROVED BY PARKS PLANNING & DESIGN
PLAN VIEW:

- Catch basin and frame with grate.
- 20mm diameter clear stone.
- Turf swale or approved alternative.
- 150mm diameter perforated rigid pipe with sock and end cap.
- Example location of catch basin pipe outlet.

SECTION VIEW:

- Catch basin frame and grate as per OPSD 704.010. Frame to be set in a full mortar bed.
- First adjustment unit to be set in full mortar bed.
- Three (3) 50mm adjustment units to be installed on top of catch basin to allow for future grade alterations.
- Filter fabric to encompass granular fill around subdrain pipe.
- Turf swale and or approved alternative.
- 300mm of topsoil or approved alternative.
- 20mm diameter clear stone to be installed above and below proposed drainage tile.
- 150mm diameter perforated rigid pipe with sock and end cap. Subdrain to be installed into a 200mm knockout provided in the catch basin pot.
- Undisturbed subgrade.
- 300mm of compacted granular 'A' backfill.
- Standard catch basin unit as per OPSD 705.010.
- Granular 'A' sub base compacted to 98% S.P.D.D. 300mm minimum depth.
- Suitable existing subgrade compacted to 98% S.P.D.D. or in accordance with geotechnical recommendations.

NOTES:

1. Precast concrete catch basin to be installed as per OPSD 705.010.
2. Precast concrete adjustment units to be installed as per OPSD 704.010.
3. All dimensions in millimeters unless otherwise noted.
CHAIN-LINK FENCING

OPTIONAL LIGHTS, IF STREET TO STREET CONNECTION

SCREEN PLANTING AS REQUIRED

TREE PLANTING

3m PATH TYPICAL

5m PATH & SHOULDERS CLEAR AREA

15m TYPICAL

5m DRAINAGE / GRADING / PLANTING / SCREENING ZONE

CITY OF LONDON STANDARD DRAWING

MINIMUM PARK CORRIDOR - SECTION
MUNICIPAL SIDEWALK PATHWAY MAY SPLIT INTO 2 BRANCHES AT ENTRANCES

PATHWAY WITH CURVILINEAR DESIGN TO SUIT LENGTH
SCREEN PLANTING AS REQUIRED

DRAINAGE SWALES
TREE PLANTING OUTSIDE OF SWALES AND PATHWAY CLEARANCE ZONE
CATCH BASINS AND SWALE TO BE ACCOMMODATED

ADJACENT LOTS

CHAIN-LINK FENCE
OPTIONAL LIGHTING - SPACING AS PER DETAILED SPECIFICATIONS

* TOTAL WIDTH MAY BE REDUCED TO 10m IF ADJACENT TO OPEN SPACE ON ONE SIDE

CITY OF LONDON STANDARD DRAWING
MINIMUM PARK CORRIDOR PLAN

DWG SPO 1.7 DATE 2009 08 23 APPROVED BY PARKS PLANNING & DESIGN
BROOM FINISHED CONCRETE SURFACE SHALL BE SLOPED 1-2% OR AS DIRECTED BY CONTRACT ADMINISTRATOR

150MM THICK 32MPA POURED CONCRETE WITH 5-8% AIR ENTRAINMENT

6-GUAGE, 150MM X 150MM WIRE MESH SET IN THE BOTTOM 1/3 OF CONCRETE SLAB

200mm MINIMUM GRANULAR ‘A’ BASE, COMPACTED TO 98% S.P.D.D., OR IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS.

COMPACTED SUBGRADE TO 98% SPD

NOTES:

1. CONCRETE TO BE 32MPa, CLASS C-2 AT 28 DAYS WITH 5-8% AIR ENTRANDED
2. GRANULAR BASE MATERIAL SHALL BE IN ACCORDANCE WITH O.P.S.S. 1010.
3. COLOURED CONCRETE SAMPLES TO BE CAST FOR APPROVAL BY CONTRACT ADMINISTRATOR.
4. FIBROUS EXPANSION JOINTS TO BE LOCATED EVERY 6 METRES, WHERE CONCRETE ABUTS STRUCTURES OR AS DIRECTED BY CONTRACT ADMINISTRATOR. ASPHALT FELT BOARD SHALL BE 12 MM AND 175MM TYPICAL.
5. CONTROL JOINTS TO BE LOCATED AT MINIMUM INTERVALS OF 3 METRES OR AS DIRECTED BY CONTRACT ADMINISTRATOR.
6. NATURAL CONCRETE TO BE SPRAYED WITH WHITE PIGMENT CURING COMPOUND.
7. ALL DIMENSIONS IN MILLIMETERS
NOTES:

1. CURB TO BE Poured AT CONSISTENT ELEVATION SO THAT PLAY AREA IS LEVELED.

2. CONCRETE PAD TO BE BROOM FINISHED WITH EXPANSION JOINT ALONG CONCRETE CURB AND ONE CONTROL JOINT THROUGH CENTRE AS SHOWN.

3. CB/WW CONNECTIONS OR LOCATION OF DRAINAGE PIPE OUTFALL TO BE APPROVED ON-SITE BY PROJECT MANAGER.

4. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.

5. LAYOUT MAY CHANGE ACCORDING TO SPECIFIC PARK DESIGN, AS APPROVED BY PROJECT MANAGER.
PARK STANDARD TURF SEED
IMPORTED TOPSOIL AS REQUIRED
150mm MIN. GRANULAR "A" BASE
COMPACTED TO 98% S.P.D.D.
UNDISTURBED OR COMPACTED
SUBGRADE
100mm CONCRETE BENCH PAD
(REFER TO SPO - 2.1 FOR LAYOUT)
EXPANSION JOINT
SLOPE TO DRAIN
R=50 TYP.

CONCRETE CURB 25MPa
AT 28 DAYS (SEE NOTE 1)
150mm MIN GRANULAR "A"
BASE COMPACTED TO
98% S.P.D.D.

19mm DIA. CLEAR GRANULAR
STONE (IN PLAY AREA ONLY)
100mm DIA. PERFORATED PVC
DRAINAGE PIPE WITH FILTER
SOCK WRAP
TERRAFIX 240R FILTER
FABRIC OR APPROVED EQUAL
100mm ASPHALT SAND
DRAINAGE COURSE
300mm COMPACTED
WOOD FIBER/WOOLCARPET
OR APPROVED EQUAL

NOTES:
1. CONCRETE CURB TO BE BROOM FINISHED WITH CONTROL JOINTS EVERY 2.0 M (MIN)
AND EXPANSION JOINTS EVERY 10.0 M (MIN). TOP OF CURB TO BE FLUSH WITH
CONCRETE BENCH PAD
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
UNDISTURBED OR COMPACTED SUBGRADE

IMPORTED TOPSOIL AS REQUIRED

100mm DIA. NON-PERFORATED PVC DRAINAGE PIPE, CONNECT TO CB OR STORM WATER MH OR OUTFALL AT GRADE (USING RODENT-PROOF MESH)
SEE NOTE 2.

CONCRETE CURB
AS PER SPO - 2.2

GRANULAR "A" BASE
AS PER SPO - 2.2

SAFETY SURFACE
AS PER SPO - 2.2

PVC CONNECTION COUPLING
AS REQUIRED.

100mm DIA. PERFORATED PVC DRAINAGE PIPE WITH FILTER SOCK WRAP

19mm DIA. CLEAR GRANULAR STONE (IN PLAY AREA ONLY)

TERRAFIX 24OR FILTER FABRIC OR APPROVED EQUAL

100mm ASPHALT SAND DRAINAGE COURSE

ENGINEERED WOOD CHIP

NOTES:

1. CB/MH CONNECTIONS OR LOCATION OF DRAINAGE PIPE OUTFALL TO BE APPROVED BY PROJECT MANAGER ON-SITE

2. ALL DRAINAGE PIPES TO BE SET AT 1% SLOPE MINIMUM.

3. ALL DIMENSIONS ARE IN MILLIMETRES.
NOTES:

1. PLAY STRUCTURE TO HAVE STRINGER FOOTINGS.

2. ENSURE SITE DRAINAGE SHEET FLOWS AWAY FROM PLAY AREA (2% MINIMUM SLOPE).

3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.

CITY OF LONDON STANDARD DRAWING

TEMPORARY PLAY AREA LAYOUT

DWG SPO - 2.4 DATE 2006 11 06 APPROVED BY PARKS PLANNING & DESIGN
NOTES:

1. CONCRETE CURB TO BE BROOM FINISHED WITH CONTROL JOINTS EVERY 2.0 M (MIN) AND EXPANSION JOINTS EVERY 10.0 M (MIN). TOP OF DEPRESSED CURB TO BE AT WOODCHIP LEVEL.

2. CB/MH CONNECTIONS OR LOCATION OF DRAINAGE PIPE OUTFALL TO BE APPROVED BY PROJECT MANAGER ON-SITE.

3. ALL DRAINAGE PIPES TO BE SET AT 1% SLOPE MINIMUM.

4. ASPHALT PATHWAY SLOPE VARIES ACCORDING TO PARK DESIGN (15% MAXIMUM).

5. ALL DIMENSIONS ARE IN MILLIMETRES.
NOTES:

1. ASPHALT SURFACE TO BE IN ACCORDANCE WITH O.P.S.S. 310. ASPHALT EDGE TO BE 45° HAND TAMPERED SMOOTH EDGE WITHOUT LATERAL DEVIATIONS.

2. GRANULAR BASE MATERIAL SHALL BE IN ACCORDANCE WITH O.P.S.S. 1010.

3. FINISHED SLOPE ON PARKING AREAS SHALL BE IN ACCORDANCE WITH THE CONTRACT DRAWINGS OR AS SPECIFIED BY THE PROJECT MANAGER.

4. ALL DIMENSIONS IN MILLIMETRES.
NOTES:

1. ASPHALT SURFACE TO BE IN ACCORDANCE WITH O.P.S.S. 310.
2. GRANULAR BASE MATERIAL SHALL BE IN ACCORDANCE WITH O.P.S.S. 1010.
3. FINISHED SLOPE ON PARKING AREAS SHALL BE IN ACCORDANCE WITH THE CONTRACT DRAWING OR AS SPECIFIED BY PROJECT MANAGER
4. ALL DIMENSIONS IN MILLIMETRES.

CITY OF LONDON STANDARD DRAWING

ASPHALT PARKING AREA WITH BARRIER CURB

DWG SPO - 3.2 DATE 2002 12 18 APPROVED BY PARKS PLANNING & DESIGN
NOTES:

1. RECYCLED ASPHALT MATERIAL AND GRANULAR BASE MATERIAL SHALL BE IN ACCORDANCE WITH O.P.S.S. 1010

2. FINISHED SLOPE ON PARKING AREAS SHALL BE IN ACCORDANCE WITH THE CONTRACT DRAWINGS OR AS SPECIFIED BY THE PROJECT MANAGER.

3. ALL DIMENSIONS IN MILLIMETRES.
NOTES:

1. RECYCLED ASPHALT MATERIAL AND GRANULAR BASE MATERIAL SHALL BE IN ACCORDANCE WITH O.P.S.S. 1010.

2. ALL DIMENSIONS IN MILLIMETRES.

LIMIT OF RESTORATION 250

600mm TYP.

150

50mm MIN.

400

150

150

150

250 250 250

PARKS STANDARD SEED

SCREENED TOPSOIL AS REQUIRED

NATIVE BACKFILL

CONC. BARRIER CURB (AS PER OPSD 600.11)

150mm COMPACTED RECYCLED ASPHALT (SEE NOTE #1)

150mm GRANULAR 'A' BASE COMPACTED TO 98% S.P.D.D. (SEE NOTE #1)

150mm GRANULAR 'B' SUB-BASE COMPACTED TO 98% S.P.D.D. (SEE NOTE #1)

SUITABLE EXISTING SUBGRADE COMPACTED TO 98% S.P.D.D. OR IN ACCORDANCE WITH GEOTECHNICAL REPORT

CITY OF LONDON STANDARD DRAWING

GRANULAR PARKING AREA WITH BARRIER CURB

DWG SPO - 3.4

DATE 2002 12 18

APPROVED BY PARKS PLANNING & DESIGN
Notes:

All white cedar to be stripped of bark, have a consistent width and be straight with no major defects.

55 x 150mm rough-cut white cedar is an approved alternative for rails.

150mm Ø min. white cedar posts, direct bury at 2100mm O.C. Compact backfill. Post tops at 15° angle toward road/turf/main pathway.

100mm Ø min. white cedar rails.

13mm Ø gal. carriage bolts and lock nuts with washers. Counter sink hardware into rails and/or posts. Trim off any excess thread.

Minimize disturbance to site and restore vegetation around posts.
NOTES:
REFER TO SPO-4.1 FOR CONSTRUCTION AND MATERIAL SPECIFICATIONS.

2400mm TALL POST FOR BYLAW SIGN

150mmØ MIN. WHITE CEDAR POST

100mmØ MIN. WHITE CEDAR RAIL

2100 O.C. TYP
1200 O.C.
2100 O.C. TYP

ROAD / TURF / MAIN PATHWAY SIDE

150mmØ MIN. WHITE CEDAR POST

100mmØ MIN. WHITE CEDAR RAIL

FINISHED GRADE

BYLAW SIGN (BY OTHERS)

2400
NOTES

DETAIL TO BE READ IN CONJUNCTION WITH SPO-4.1

ALL HARDWARE AND FASTENERS TO BE GALVANIZED STEEL.

WELDS MUST BE PROTECTED WITH 2 COATS OF GREY RUST PAINT.

WHITE CEDAR POST

19mmØ GAL. STEEL GATE PIN

WHITE CEDAR GATE MEMBERS

75mm x 75mm GAL. STEEL PLATE WELDED TO PIN

75mm x 75mm GAL. STEEL PLATE, FASTEN SECURELY

GATE LOCK AS SUPPLIED BY CITY

DOUBLE LOCK SENARIO

TRIM RAIL FLUSH WITH POST

PROTECTED SIDE (BACKSIDE)게이트 본문

SINGLE LOCK SENARIO

CEDAR RAIL FENCE (REFER TO SPO-4.1)

CEDAR POST

GATE MEMBERS

150mmØ MIN. WHITE CEDAR POST. INSTALL IN CONC. FOOTING WITH SONO TUBE. POST TOP TO BE CUT AT 15° ANGLE TOWARD ROAD/TURF/MAIN PATHWAY SIDE

6mm THICK STEEL GATE HINGE WITH 19mmØ HINGE PIN

GATE LOCK MECHANISM (REFER TO ABOVE)

ALL GATE MEMBERS 50 x 150mm ROUGH-CUT WHITE CEDAR. FINISHED GRADE

6mm THICK STEEL ADJUSTABLE HINGE WITH 19mmØ HINGE PIN

150mmØ MIN WHITE CEDAR POST, DIRECT BURY AND COMPACT BACKFILL. POST TOP AT 15° ANGLE TOWARD ROAD/TURF/MAIN PATHWAY SIDE.

150mmØ MIN WHITE CEDAR POST

STEEL GATE HINGE

50 x 50mm ROUGH-CUT WHITE CEDAR GATE MEMBERS

STEEL ADJUSTABLE GATE HINGE

CONC. POST FOOTING

FINISHED GRADE

CITY OF LONDON STANDARD DRAWING

CEDAR RAIL SINGLE ACCESS GATE

DWG SPO - 4.3 DATE 2002 12 18 APPROVED BY PARKS PLANNING & DESIGN
AREA UNDER CONSTRUCTION →

AREA UNDER PRESERVATION

STAKE DRIVEN FLUSH

89 x 89 x 1500mm MIN. WOOD POST
OR 1500mm MIN. STEEL T-RAIL POST
OR 89mm DIA. X 1500mm MIN. CEDAR POST

ALL POSTS SPACING @ 1200mm O.C.

14 GA. WIRE FENCE WITH
3-14 GA. WIRE TIES PER POST
OR APPROVED EQUAL

CLASS 1 MATERIAL
GEOTEXTILE FILTER FABRIC
SECURED TO WOOD POSTS

EXISTING GRADE

STRAW BALES
TRENCH TO BE BACKFILLED AND
COMPACTED

300mm MIN OF GEOTEXTILE
BELOW EXISTING GRADE

50 x 50mm WOOD STAKE
SET FIRMLY INTO GROUND.
INSTALL 2 STAKES PER BALE
@ 150mm FROM BALE ENDS

FLOW

COMPACTED NATIVE BACKFILL

CITY OF LONDON STANDARD DRAWING

ROBUST SILTATION BARRIER

<table>
<thead>
<tr>
<th>DWG</th>
<th>SPO - 4.5</th>
<th>DATE</th>
<th>2007 10 16</th>
<th>APPROVED BY</th>
<th>PARKS PLANNING AND DESIGN</th>
</tr>
</thead>
</table>

[Signature]
Cable Clip (Gal.)

CITY OF LONDON STANDARD DRAWING
POST AND CABLE BARRIER

NOTES:
ALL WHITE CEDAR TO BE STRIPPED OF BARK, HAVE A CONSISTANT WIDTH AND BE STRAIGHT WITH NO DEFECTS.

150mmØ MIN. WHITE CEDAR POSTS.
DIRECT BURY 3000mm O.C. MAX.
COMPACT BACKFILL. POST TOPS CUT AT 15° ANGLE TOWARD ROAD/PARKING LOT

12mmØ ZINC COATED CABLE TO BE INSTALLED WITH MINIMAL DEFLECTION

TURN BUCKLES (GAL.) AT ENDS. FASTEN TO END POSTS

150mmØ MIN. WHITE CEDAR ANGLE SUPPORT. INSTALL AT ALL ENDS. NOTCH POSTS TO SUIT ANGLE SUPPORT AND FASTEN SECURELY.
NOTES:
1. ALL EXPOSED CONCRETE TO HAVE SMOOTH FINISH
2. REINFORCING STEEL TO MEET INDUSTRY STANDARDS FOR TYPE, QUALITY AND PLACEMENT.
3. MINIMIZE DISTURBANCE TO SITE AND RESTORE VEGETATION AROUND MONUMENT.
4. ALL DIMENSIONS IN MILLIMETRES.

CITY OF LONDON STANDARD DRAWING

PROPERTY BOUNDARY MONUMENT DETAIL
CHAIN-LINK FENCE DETAIL
N.T.S.

NOTES:
1. FENCE POSTS, RAILS AND HARDWARE SHALL BE BLACK POWDER COATED. FASTENERS SHALL BE HOT DIP GALVANIZED.
2. FENCE FABRIC SHALL BE BLACK VINYL COATED STEEL FABRIC 3.76mm. WITH A UNIFORM 38mm. OR 50mm. MAX. OPENING DIAMOND PATTERN.
3. FENCE FABRIC SHALL BE INSTALLED ON "CITY" SIDE OF FENCE.
4. POST CAPS SHALL BE WATER PROOF AND MECHANICALLY SECURED TO POSTS.
5. STRAINING POSTS SHALL BE INSTALLED AT INTERVALS NOT EXCEEDING 150M. ADDITIONAL STRAINING POSTS SHALL BE INSTALLED WHERE CHANGES IN VERTICAL GRADE EXCEED 30 DEGREES.
6. CONCRETE SHALL BE 20MPa @ 28 DAYS IN ACCORDANCE WITH O.P.S.S. 904.
7. FENCE SHALL BE INSTALLED ON PROPERTY LINES, UNLESS OTHERWISE DIRECTED BY CONTRACT ADMINISTRATOR.
8. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.

TYPICAL FOOTING DETAIL
N.T.S.

<table>
<thead>
<tr>
<th>POST AND FOOTING DETAILS TABLE (IN mm.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>POST TYPE</td>
</tr>
<tr>
<td>LINE POST</td>
</tr>
<tr>
<td>TERMINAL POST</td>
</tr>
</tbody>
</table>

CITY OF LONDON STANDARD DRAWING

PARK CHAIN-LINK FENCE

DWG SPO - 4.8 DATE 2007 10 16 APPROVED BY PARKS PLANNING AND DESIGN

[Signature]
**DESIGN LOADS:**

<table>
<thead>
<tr>
<th>Dead Load</th>
<th>Live Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.6 kPa (12 psf)</td>
<td>2.9 kPa (60 psf)</td>
</tr>
</tbody>
</table>

**EQUIPMENT AND OPERATIONS**

1. These boardwalks are typically constructed in Environmentally Sensitive Areas; therefore restrictions may apply to the use of equipment. Consult with project coordinator in the Parks Planning and DSN section to determine permitted construction methods prior to accessing individual work sites.

2. Existing trees and vegetation adjacent to the new boardwalks are considered to be 'significant' in terms of their size and/or species. The contractor shall ensure that these trees are not damaged by operations. A plan drawing and listing of these trees may be available from the City of London – Parks Planning and Design Section.

3. All excavated materials and excess concrete and materials shall be hauled away off site by the contractor. The contractor shall take extraordinary care to ensure that no concrete spillage occurs in the work area. The contractor shall clean up and restore the site to its original condition once the work is complete.

**FOUNDATIONS**

1. Foundations are designed based on a minimum allowable soil bearing capacity of 2000 psf; if existing bearing capacities are lower than 2000 psf the contractor shall inform the project coordinator in order to retain a soils consultant.

2. If a soils consultant is retained by the City of London, the base of excavations must be reviewed by the soils consultant prior to placing of concrete. Contractor shall inform the soils consultant at least 24 hours in advance of any concrete placement.

3. Formwork shall be used for the concrete piers and walls. Concrete placement for each pier shall be done in one pour.

4. Backfill and compact walls below grade in such a way that the soil level on one side is never more than 500mm above the soil on the other side.

5. Backfill wing wall structure with approved free draining native or Granular B backfill compacted to 98% SPDD.

**CONCRETE**

1. All concrete work has been designed in accordance with CAN3-A23.3-04.

2. Concrete requirements are as follows:

   Min. Strength @ 28 Days | Max. Water Cement Ratio | Air Content
   -------------------------|-------------------------|-----------
   32 MPa | 0.4 | 5% - 8%

   Concrete shall have a minimum cement content of 350 kg/cubic metre.

3. Reinforcing steel shall have a minimum 400 MPa yield strength and shall be detailed and placed in accordance with The Reinforcing Steel Institute of Canada "Manual of Standard Practice". All laps shall be class B laps unless noted otherwise.

4. All concrete materials and methods of concrete construction shall be in accordance with CAN/CSA-A23.1. Testing of concrete shall comply with the requirements of CAN/CSA-A23.2.

5. Concrete protection to reinforcement shall be 75 mm for concrete cast against earth and 50mm in all other locations.

6. Provide sufficient support bars on high chairs, slab bolsters, and other accessories to maintain the reinforcing steel in the required positions with proper clearances before and during placing of concrete. Tie bars at all intersections. "Floating" of reinforcement is strictly prohibited.

7. The contractor shall notify the project manager and materials consultant at least 24 hours in advance of all concrete pours in order to arrange for site review of reinforcement.

8. Concrete finishes shall be a Class A finish as defined in Ontario Provincial Standard Specification 904.

**WOOD FRAMING**

1. All wood decking, rail and handrail components shall be white cedar Grade No.2 or better, unless otherwise noted. Railing components shall be dressed (planed) and decking shall be rough sawn.

2. All wood not exposed to view (i.e. joists, beams, columns and bracing) shall be No. 2 grade S-P-F or better and pressure treated (P.T.)

3. All wood and wood components have been designed in accordance with CSA-086.

4. All construction to comply with applicable sections of the 2006 Ontario Building Code.

5. All screw fasteners shall be corrosion resistant (coated) and minimum No. 10 size. Minimum two fasteners per connection or as required to resist anticipated loading.

**STEEL CONNECTORS**

1. All steel connectors shall be 'Simpson' brand. Substitutions shall only be considered for a credit to the contract.

2. All connectors shall be installed in strict conformance with manufacturers instructions, including, but not limited to, the number and type of fasteners required to achieve the maximum capacity of the connector.

3. All fasteners shall be hot-dipped galvanized or stainless steel. Hot Dip Galvanizing (HDG) shall be in accordance with CAN/CSA-G164 (minimum zinc coating 600 gsm).

4. **Members Connected**

   - Simpson Fastener
   - Remarks
   - 3-35 x 286 BU Beam to 140 x 140 column | PC 64 | Install additional 5/8" dia. through bolts in post & BU beam
   - 3-35 x 286 BU Beam to concrete pier | CB 4.5 | Install 40MPa dry packed grout under steel plate
   - 38 x 235 joist to BU beam | HU 2B | -----
   - 2 - 38 x 140 Guardrail post to conc. headwall | CBSQ46-SDS2 | At Each post — four per headwall
   - Joist hold down clips | H2.5 | -----

**THIS DRAWING PREPARED BY:**

debbert engineering inc.

**TELEPHONE:** (519) 668 2022

**JUNE 2007**

**CITY OF LONDON STANDARD DRAWING**

**BOARDWALK - GENERAL NOTES**

**DWG**

**DATE**

**APPROVED BY**

**PARKS PLANNING & DESIGN**

**JUNE 2007**
WITH RADIUS EDGES

400mm DIA. CONCRETE PIER

3 - 38 X 286 BUILT UP BEAM P.T.

50 X 305 ROUGH CUT FACIA

2 - 38 X 140 DRESSED POSTS Ø 1500 mm MAX. O.C.

RAILPOST AT MIDSPAN

58 X 235 BLOCKING Ø MIDSPAN

38 X 140 DRESSED TOP RAIL WITH RADIUS EDGES

50 X 150 DECKING WITH 6mm GAPS BETWEEN

100 X 100 CONTINUOUS RAIL C/W 50 X 100 X 100 SPACERS Ø 500mm O.C.

500 TYP.

610 TYP.

400 TYP.

2100 MAX.

3775 MAX.

3775 MAX.

1500 O.C. MAX.

150 TYP.

3250 MAX.

50 X 505 ROUGH FINISH

CUT FACIA

2 - 3E X 140 DRESSED POSIS @ 1500 mm MAX. O.C.

50 X 505 ROUGH FINISH

CUT FACIA

2 - 3E X 140 DRESSED POSIS @ 1500 mm MAX. O.C.

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CITY OF LONDON STANDARD DRAWING

BOARDWALK - 5.0m SPAN BOARDWALK PLAN & DETAILS

THIS DRAWING PREPARED BY: debbert engineering inc.

TELEPHONE: (519) 668 2022

JUNE 2007
STANDARD PARK BENCH, RECYCLED PLASTIC SLATS (REDWOOD COLOUR) WITH POWDER COATED STEEL FRAME (BLACK). SURFACE MOUNT CONTOUR MODEL AS SUPPLIED BY CLASSIC DISPLAYS (BRAMPTON ON,) OR APPROVED EQUAL.

100mm CONCRETE BENCH PAD WITH BROOM FINISH 30 MPa @ 28 DAYS

CONTROL JOINT, 84mm (2.5") DEEP

1% SLOPE

ACCESSIBLE ROUTE

100mm CONCRETE BENCH PAD WITH BROOM FINISH
150mm GRANULAR 'A' BASE COMPACTED TO 98% S.P.D.D.

600 TYP. LIMIT OF RESTORATION

1% SLOPE

FASTEN BENCH WITH 50mm LONG MIN. GAL. BOLTS WITH EXPANSION SHIELDS

SUITABLE SUBSOIL COMPACTED TO 98% S.P.D.D.

CITY OF LONDON STANDARD DRAWING

PARK BENCH AND CONCRETE PAD

DWG SPO - 6.1 DATE 2006 11 06 APPROVED BY PARKS PLANNING & DESIGN
1. All pipe shall be Schedule 40 or better.

2. All exposed welds shall be spatter-free and finished smooth to the touch.

3. All exposed steel to be completely painted yellow with industry standard paint.

4. All excess excavated material shall be removed from site.

5. All dimensions in millimetres.
SLEEVE PLUG WELDED TO PIPE

FOUR (4) 25mm DIA HOLES FOR PLUG WELD

38mm x 50mm x 8mm (3/8") FLAT TAB WELDED TO PIPE

18mm DIA HOLE FOR PARK STANDARD LOCK

38mm x 50mm x 8mm (3/8") FLAT TAB WELDED TO PIPE.

SLEEVE TO PIPE CLEARANCE IS .065” + .010” (SLEEVE MAY HAVE TO BE TURNED)

6mm STEEL CAP

WHITE / SILVER REFLECTIVE TAPE AROUND BOLLARD

100mm STEEL PIPE, PAINTED YELLOW WITH INDUSTRY STANDARD PAINT.

88mm STEEL PIPE SLEEVE

SMOOTH FINISH ALL EXPOSED CONCRETE AND SLOPE TO DRAIN OR AVOID PONDING AT BASE OF BOLLARD

NOTES:

1. ALL PIPE SHALL BE SCHEDULE 40 OR BETTER.

2. ALL EXPOSED WELDS SHALL BE SPATTER-FREE AND FINISHED SMOOTH TO THE TOUCH.

3. ALL EXPOSED STEEL TO BE COMPLETELY PAINTED YELLOW WITH INDUSTRY STANDARD PAINT.

4. ALL EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM SITE.

5. ALL DIMENSIONS ARE IN MILLIMETRES.

CITY OF LONDON STANDARD DRAWING

REMOVABLE BOLLARD

DWG. SPO - 6.3 DATE 2005 11 01 APPROVED BY

PARKS PLANNING & DESIGN
NOTES:

1. ARMOURSTONE TO BE SOLID BLOCKS OF DOLOMITIC LIMESTONE OR APPROVED EQUAL.
2. ARMOURSTONE TO BE RECTANGULAR AND REGULAR IN SHAPE WITH SMOOTH SIDES AND A FLAT TOP. IRREGULAR AND/OR SHARP EDGED STONE BLOCKS WILL NOT BE ACCEPTABLE.
3. LIMESTONE SCREENINGS TO BE IN ACCORDANCE WITH OPSS 1010.
4. EXCESS SPOILS TO BE REMOVED FROM THE SITE UNLESS OTHERWISE INSTRUCTED BY PROJECT MANAGER.
5. ALL GRADES TO THE APPROVAL OF PROJECT MANAGER.
6. ORIENTATION OF ARMOURSTONE SEAT TO THE APPROVAL OF PROJECT MANAGER.
7. ALL DIMENSIONS ARE IN MILLIMETERS.
NOTES:

1. ARMOURSTONE TO BE SOLID BLOCKS OF DOLOMITIC LIMESTONE OR APPROVED EQUAL.
2. ARMOURSTONE TO BE RECTANGULAR AND REGULAR IN SHAPE WITH SMOOTH SIDES AND A FLAT TOP. IRREGULAR AND/OR SHARP EDGED STONE BLOCKS WILL NOT BE ACCEPTABLE.
3. EXCESS SpoILS TO BE REMOVED FROM THE SITE UNLESS OTHER WISE INSTRUCTED BY PROJECT ADMINISTRATOR.
4. ALL GRADES TO THE APPROVAL OF PROJECT MANAGER.
5. ORIENTATION OF ARMOURSTONE SEAT TO THE APPROVAL OF PROJECT MANAGER.
6. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
NOTES:

1. ARMOUR STONE TO BE SOLID BLOCKS OF DOLOMITIC LIMESTONE OR APPROVED EQUAL.
2. ARMOURSTONE TO BE RECTANGULAR AND REGULAR IN SHAPE WITH SMOOTH SIDES AND A FLAT TOP. IRREGULAR AND/OR SHARP EDGED STONE BLOCKS WILL NOT BE ACCEPTED.
3. EXCESS SPOIL TO BE REMOVED FROM SITE UNLESS OTHERWISE DIRECTED BY PROJECT ADMINISTRATOR.
4. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
SMOOTH FINISH ALL EXPOSED CONCRETE SLOPE TO DRAIN AND AVOID PONDING AT BASE OF BIKE RACK

METRO STYLE BIKE RACK, IN-GROUND MODEL (OR APPROVED EQUAL) WITH BLACK POWDER COATING

DISTURBED AREA TO BE RESTORED

EXISTING SUBGRADE

12mm x 175mm REBAR, WELD THROUGH CENTRE OF PIPE

BIKE RACK DIRECTLY BURIED WITH 250mm DIA CONCRETE FOOTING FORMED BY SONOTUBE

NOTES:
1. ALL EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM SITE.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.

CITY OF LONDON STANDARD DRAWING

NEIGHBOURHOOD PARK BIKE RACK

DWG  SPO - 6.7  DATE  2012 08 27  APPROVED BY  PARKS PLANNING & DESIGN
SMOOTH FINISH ALL EXPOSED CONCRETE SLOPE TO DRAIN AND AVOID PONDING AT BASE OF BIKE RACK

METRO STYLE BIKE RACK, IN-GROUND MODEL (OR APPROVED EQUAL) WITH BLACK POWDER COATING

DISTURBED AREA TO BE RESTORED

EXISTING SUBGRADE

12mm x 175mm REBAR, WELD THROUGH CENTRE OF PIPE

BIKE RACK DIRECTLY BURIED WITH 250mm DIA CONCRETE FOOTING FORMED BY SONOTUBE

NOTES:
1. ALL EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM SITE.
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CITY OF LONDON STANDARD DRAWING

NEIGHBOURHOOD PARK BIKE RACK

DWG SPO - 6.10 DATE 2006 11 06 APPROVED BY PARKS PLANNING AND DESIGN
Municipal Park Address Number Optional, Include When Directed by Project Manager.
Font: Arial-Narrow (Width Factor 50%)
Colour: Metallic Gun Metal Grey (Avery)
Centre Horizontally within Border.

13mm Slotted Bolt Holes. Use Tamper Proof Fasteners

City of London Tree Logo as per City Sign Production Standards.
Tree/Text Colour: Green Pantone 3308
Background Colour: Metallic Gun Metal Grey (Avery)

Notes:
1. Detail to be used in conjunction with SPO-7.2.
2. All vinyl graphics to be baked on sign blank.

City of London Standard Drawing

Neighbourhood Park Sign - Layout
NOTES:

- DETAIL TO BE USED IN CONJUNCTION WITH SPO-7.1
- GAL. STEEL POST MUST BE INSTALLED STRAIGHT AND TRUE TO THE SATISFACTION OF THE PROJECT MANAGER
- EXACT SITE LOCATION OF THE NEIGHBOURHOOD PARK SIGN IS SUBJECT TO CITY APPROVAL
- INSTALL EACH EXTRUDED ALUMINUM SIGN ON THE CORRECT POST SIDE. TEXT BOTTOM MUST FACE ROAD/SIDWALK SIDE.
- CONTRACTOR TO INSTALL REBAR ANCHOR IN POST.
EXISTING GRADE

TOP 80mm OF EXISTING TOPSOIL WITHIN PATHWAY ALIGNMENT SHALL BE STRIPPED AND REUSED TO RESTORE WORK AREA FOLLOWING CONSTRUCTION. FINISHED GRADE OF WOOD CHIP PATHWAY SHALL BE 100mm ABOVE EXISTING GRADE.

COMPACTED WOOD CHIP PATHWAY, 180 mm DEPTH. PRODUCT SAMPLE SHALL BE SUBMITTED TO PROJECT ADMINISTRATOR FOR QUALITY APPROVAL PRIOR TO INSTALLATION (REFER TO NOTE NO. 3 BELOW).

COMPACT EXISTING SUBGRADE PRIOR TO INSTALLATION OF HARDWOOD CHIPS. DO NOT COMPACT EXISTING TOPSOIL BEYOND LIMITS OF HARDWOOD CHIP PATHWAY.

RESTORE PATHWAY EDGES WITH TOPSOIL PREVIOUSLY STRIPPED FROM SITE.

PARK STANDARD SEED MIX TO BE APPLIED TO ALL RESTORED SURFACES ALONG PATH EDGE.

UNDISTURBED SUBGRADE AND/OR TOPSOIL WIDTH VARIES DEPENDING ON PROJECT PARAMETERS (TYPICALLY 1000-2000)

NOTES:

1. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

2. DISTURBANCE BEYOND 600mm FROM PATHWAY EDGE WILL NOT BE PERMITTED. EFFORT SHALL BE TAKEN TO MINIMIZE DISTURBANCE AND COMPACTION TO TOPSOIL AND VEGETATION WITHIN THIS 600mm DISTANCE.

3. SUPPLY OF WOOD CHIPS SHALL BE FREE OF NAILS, PRESSURE TREATED WOOD, TOPSOIL AND SAWDUST. WOOD CHIPS SHALL BE A CONSISTENT SIZE. WOOD CHIPS SHALL BE OF A SIZE THAT AVOIDS RAPID DECAY, WHILE PERMITTING COMFORTABLE PEDESTRIAN FOOT TRAFFIC. PRIOR TO INSTALLATION, CONTRACTOR SHALL SUBMIT SAMPLE OF WOOD CHIPS TO CONTRACT ADMINISTRATOR FOR QUALITY ACCEPTANCE.

CITY OF LONDON STANDARD DRAWING

WOOD CHIP TRAIL

DWG SPO 8.1 DATE 2007-10-16 APPROVED BY PARKS PLANNING AND DESIGN
50x150 rough cut cedar decking. Cedar decking to be secured to joist using 89mm (3.5") decking screws (two screws per side). 12mm spacing between boards.

150x150 rough cut cedar joist.

125x255 steel plates connecting joists. One plate on each side of joist. Plate shall be minimum 3mm (1/8") thick.

150x150 rough cut cedar beam.

Individual cedar joists to be fastened to beam using a 254mm (10") long galvanized spike.

Precast concrete patio slab 300x300 set on 100 of compacted (hand tamped) limestone screenings. Patio slab shall have a minimum thickness of 38mm (1.5").

NOTES:

1. All dimensions in millimeters unless otherwise noted.

2. Disturbance beyond 600mm from edge of boardwalk will not be permitted. Effort shall be taken to minimize disturbance and compaction to topsoil and vegetation within this 600mm distance.

3. All fasteners to be hot dipped galvanized.

4. Alignment of proposed boardwalk to be approved on site by Parks Planning and Design staff prior to any clearing and/or construction commencing.

5. Any "ramp" from existing grade up to the level portion of boardwalk shall not exceed 6%.

6. A ramp shall be constructed at all termination points of the boardwalk. Ramp shall have a maximum slope of 6%. End of ramp shall be flush with trail approach so no step or trip hazard is present.

CITY OF LONDON STANDARD DRAWING

TRAIL BOARDWALK (ON-GRADE)

DWG SP0 - 8.2 DATE 2011 09 02 APPROVED BY PARKS PLANNING & DESIGN
PLAN VIEW:

50x150 rough cut cedar decking. Cedar decking to be secured to joist using 89mm (3.5") decking screws (two screws per side). 12mm spacing between boards.

150x150 rough cut cedar joist.

125x255 steel plates connecting uprights to the joists. One plate on each side of joist. Plate shall be minimum 3mm (1/8") thick.

50x100 rough cut cedar cross brace. Secure cross brace to uprights using four 89mm (3.5") long decking screws at each upright.

Precast concrete patio slab 300x300 set on 100 of compacted (hand tamped) limestone screenings. Patio slab shall have a minimum thickness of 38mm (1.5").

SECTION VIEW:

50x150 rough cut cedar decking. 12mm spacing between boards.

150x150 rough cut cedar upright.

Existing grade. Boardwalk shall be constructed in a fashion that minimizes disturbance to surrounding vegetation and drainage patterns.

150x150 rough cut cedar joist.

125x255 steel plates connecting uprights to the joists. Plate shall be 3mm (1/8") thick min. One steel plate to be secured on each side of joist using four 13mmx203mm (1/2"x8") bolts. Bolts shall be inserted through predrilled holes in the joint and uprights and bolts - tighten with washer and nut. Washer and nut to be placed on inside of joint.

Precast concrete patio slab 300x300. Patio slab shall have a minimum thickness of 38mm (1.5").

100 depth of compacted (hand tamped) limestone screenings.

Undisturbed subgrade.

NOTES:

1. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE NOTED.

2. DISTURBANCE BEYOND 600mm FROM EDGE OF BOARDWALK WILL NOT BE PERMITTED. EFFORT SHALL BE TAKEN TO MINIMIZE DISTURBANCE AND COMPACTION TO TOPSOIL AND VEGETATION WITHIN THIS 600mm DISTANCE.

3. ALL FASTENERS TO BE HOT DIPPED GALVANIZED.

4. ALIGNMENT OF PROPOSED BOARDWALK TO BE APPROVED ON SITE BY PARKS PLANNING AND DESIGN STAFF PRIOR TO ANY CLEARING AND CONSTRUCTION COMMENCING.

5. ANY "RAMP" FROM EXISTING GRADE UP TO THE LEVEL PORTION OF BOARDWALK SHALL NOT EXCEED 6%.

6. A RAMP SHALL BE CONSTRUCTED AT ALL TERMINATION POINTS OF THE BOARDWALK. RAMP SHALL HAVE A MAXIMUM SLOPE OF 6%. END OF RAMP SHALL BE FLUSH WITH TRAIL APPROACH SO NO STEP OR TRIP HAZARD IS PRESENT.

CITY OF LONDON STANDARD DRAWING

TRAIL BOARDWALK (ELEVATED)
NOTES:
1. BASE OF SHRUB TO HAVE SAME ELEVATION RELATIVE TO FINISHED GRADE AS PREVIOUSLY OCCUPIED PRIOR TO TRANSPLANTING.
2. SAUCER TO BE SOAKED WITH WATER AND MULCHED IMMEDIATELY FOLLOWING PLANTING.
3. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
4. SIZE OF SHRUB MUST MEET CONTRACT REQUIREMENTS.
5. ALL PLANT MATERIAL SHALL CONFORM TO THE STANDARDS OF THE CANADIAN NURSERY TRADES ASSOCIATION FOR SIZE AND SPECIES.

CITY OF LONDON STANDARD DRAWING
TYPICAL SHRUB PLANTING DETAIL

DWG SPO - 9.1 DATE 2012-08-27 APPROVED BY PARKS PLANNING AND DESIGN
FIGURE 1: Typical Shrub Module Layout and Size (see notes below)

NOTES:
1. PLANTING MODULES SHALL CONSIST OF 15-NATIVE SHRUBS INSTALLED +/- 2.0 METERS ON CENTRE. TYPICAL MODULE SHALL BE SIZED AS ILLUSTRATED ABOVE.
2. PROPOSED SHRUBS WITHIN MODULE SHALL BE INSTALLED IN INFORMAL NATURALISTIC GROUPINGS. DO NOT PLANT IN STRAIGHT ROWS.
3. INDIVIDUAL SHRUB PITS WITHIN MODULE SHALL BE DUG AND BACKFILLED IN ACCORDANCE WITH THE CITY OF LONDON ‘TYPICAL SHRUB PLANTING DETAIL’ (SPO 9.1).
4. WOOD MULCH TO A DEPTH OF 100MM AROUND BASE OF SHRUBS ONLY AS ILLUSTRATED ON SPO 9.1.
5. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
6. SUBSTITUTIONS TO THE RECOMMENDED PLANT LISTS WILL NOT BE PERMITTED WITHOUT THE PRIOR WRITTEN APPROVAL FROM THE CONTRACT ADMINISTRATOR.

<table>
<thead>
<tr>
<th>LABEL CODE</th>
<th>SCIENTIFIC NAME</th>
<th>COMMON NAME</th>
<th>QTY</th>
<th>SIZE</th>
<th>COND.</th>
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<tbody>
<tr>
<td>U1</td>
<td>Cornus racemosa</td>
<td>Grey Dogwood</td>
<td>5</td>
<td>60cm, 3gal</td>
<td>Potted</td>
</tr>
<tr>
<td></td>
<td>Prunus virginiana</td>
<td>Common ChokeCherry</td>
<td>5</td>
<td>60cm, 3gal</td>
<td>Potted</td>
</tr>
<tr>
<td></td>
<td>Rhus typhina</td>
<td>Staghorn Sumac</td>
<td>5</td>
<td>60cm, 3gal</td>
<td>Potted</td>
</tr>
<tr>
<td>U2</td>
<td>Cornus alternifolius</td>
<td>Alternate-leaved Dogwood</td>
<td>5</td>
<td>60cm, 3gal</td>
<td>Potted</td>
</tr>
<tr>
<td></td>
<td>Hamamelis virginiana</td>
<td>Witch Hazel</td>
<td>5</td>
<td>60cm, 3gal</td>
<td>Potted</td>
</tr>
<tr>
<td></td>
<td>Cornus nuttallii</td>
<td>Round-leaved Dogwood</td>
<td>5</td>
<td>60cm, 3gal</td>
<td>Potted</td>
</tr>
<tr>
<td>U3</td>
<td>Rhus glabra</td>
<td>Smooth Sumac</td>
<td>5</td>
<td>60cm, 3gal</td>
<td>Potted</td>
</tr>
<tr>
<td></td>
<td>Amelanchier canadensis</td>
<td>Serviceberry</td>
<td>5</td>
<td>60cm, 3gal</td>
<td>Potted</td>
</tr>
<tr>
<td></td>
<td>Cornus racemosa</td>
<td>Grey Dogwood</td>
<td>5</td>
<td>60cm, 3gal</td>
<td>Potted</td>
</tr>
</tbody>
</table>

FLOODPLAIN MODULES

| F1         | Cornus sericea   | Red Osier Dogwood | 5   | 60cm, 3gal | Potted    |
|            | Salix bebbiana   | Bebb's Willow     | 5   | 60cm, 3gal | Potted    |
|            | Prunus americana | Wild Plum         | 5   | 60cm, 3gal | Potted    |
| F2         | Sambucus canadensis | American Elder   | 5   | 60cm, 3gal | Potted    |
|            | Viburnum lentago | Nannyberry        | 5   | 60cm, 3gal | Potted    |
|            | Physocarpus opulifolius | Common Ninebark | 5   | 60cm, 3gal | Potted    |
| F3         | Salix lucida     | Shining Willow    | 5   | 60cm, 3gal | Potted    |
|            | Viburnum trilobum | Highbush Cranberry | 5   | 60cm, 3gal | Potted    |
|            | Ilex verticillata | Winterberry       | 5   | 60cm, 3gal | Potted    |

FIGURE 2: Typical Species Composition for Individual Shrub Modules.
NOTES:
1. ALL DIMENSIONS GIVEN IN METERS UNLESS OTHERWISE NOTED.
2. DRAWING SHALL BE READ IN CONJUNCTION WITH CITY OF LONDON STANDARD DRAWING SPO-10.3
3. LENGTH OF SINGLE MINI SOCCER PITCH TO BE A MINIMUM OF 60 METERS TO A MAXIMUM OF 70 METERS IN LENGTH. REFER TO DETAIL SPO-10.2 FOR LENGTH OF DOUBLE MINI SOCCER PITCH.
4. BUFFER DISTANCES MAY BE ALTERED DUE TO ON-SITE CONDITIONS AT THE DISCRETION AND APPROVAL OF THE CITY OF LONDON.

DIMENSION SCHEDULE

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
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<tbody>
<tr>
<td>REGULATION</td>
<td>100</td>
<td>60</td>
<td>30</td>
<td>15</td>
<td>5</td>
</tr>
<tr>
<td>MINI SOCCER</td>
<td>60/70</td>
<td>40</td>
<td>15</td>
<td>15</td>
<td>5</td>
</tr>
</tbody>
</table>
NOTES:

1. ALL DIMENSIONS GIVEN IN METERS UNLESS OTHERWISE NOTED.
2. DRAWING SHALL BE READ IN CONJUNCTION WITH CITY OF LONDON STANDARD DRAWING SPO-10.1
3. BUFFER DISTANCES MAY BE ALTERED DUE TO ON-SITE CONDITIONS AT THE DISCRETION AND APPROVAL OF THE CITY OF LONDON.
NOTES:
1. TOPSOIL SHALL BE IN ACCORDANCE WITH CITY OF LONDON STANDARD SPO-10.
NOTES:
1. ALL MEASUREMENTS GIVEN IN METERS UNLESS OTHERWISE SPECIFIED.
2. REFER TO CITY OF LONDON STANDARD DRAWING SPO-11.4 FOR GRADING REQUIREMENTS.
3. TURF OUTFIELD SHALL BE IN ACCORDANCE WITH CITY OF LONDON STANDARD SPO-13.
4. BUFFER DISTANCES MAY BE ALTERED DUE TO ON-SITE CONDITIONS AT THE DISCRETION AND APPROVAL OF THE CITY OF LONDON.

CITY OF LONDON STANDARD DRAWING
BASEBALL DIAMOND LAYOUT

DWG  SPO - 11.1  DATE  2011 09 02  APPROVED BY  PARKS PLANNING & DESIGN
NOTES:

1. DETAIL TO BE USED IN CONJUNCTION WITH SPO-13.3 AND SPO-13.4.
2. NO STRUCTURES MAY BE SITUATED WITHIN THE 2000mm WIDE NO ENCROACHMENT ZONE.
3. ALL LINES TO BE 2 COATS OF WHITE TRAFFIC PAINT IN ACCORDANCE WITH O.P.S.S 532.
4. 1% MAXIMUM GRADE ACROSS ASPHALT COURT. 2% MAXIMUM GRADE ACROSS NO ENCROACHMENT ZONE.
5. ALL DIMENSIONS ARE IN MILLIMETRES.

CITY OF LONDON STANDARD DRAWING

HALF-COURT BASKETBALL LAYOUT

DWG SPO-13.1 DATE 2012 08 27 APPROVED BY PARKS PLANNING & DESIGN
NOTES:

1. DETAIL TO BE USED IN CONJUNCTION WITH SPO-13.3 AND SPO-13.4.
2. NO STRUCTURES MAY BE SITUATED WITHIN THE 2000mm WIDE NO ENCROACHMENT ZONE.
3. ALL LINES TO BE 2 COATS OF WHITE TRAFFIC PAINT IN ACCORDANCE WITH O.P.S.S 532.
4. 1% MAXIMUM GRADE ACROSS ASPHALT COURT. 2% MAXIMUM GRADE ACROSS NO ENCROACHMENT ZONE.
5. ALL DIMENSIONS ARE IN MILLIMETRES.

CITY OF LONDON STANDARD DRAWING

FULL-COURT BASKETBALL LAYOUT

DWG SPO - 13.2 DATE 2011 09 02 APPROVED BY PARKS PLANNING & DESIGN
LIMIT OF RESTORATION
600 TYP. EACH SIDE

150 MIN
TYP.

45° HAND TAMPED
EDGE (TYPICAL)

50mm HL3 ASPHALT WITH
45° HAND TAMPED EDGE
(SEE NOTE 1)

SCREENED TOPSOIL AS REQUIRED
(SEE NOTE 3)

PARK STANDARD SEED
(SEE NOTE 4)

200mm GRANULAR 'A' BASE
COMPACTED TO 98% S.P.D.D.
(SEE NOTE 2)

SUITABLE EXISTING SUB-
GRADE COMPACTED TO
98% S.P.D.D. OR IN
ACCORDANCE WITH
GEOTECHNICAL
RECOMMENDATIONS

SLOPE TO DRAIN
(SEE NOTE 5)

NOTES:

1. ASPHALT SURFACE TO BE ONE (1) 50mm LAYER
(AFTER COMPACTION) OF HOT MIX HL3 IN ACCORDANCE
WITH O.P.S.S. 310. ASPHALT EDGE TO BE
45° HAND TAMPED SMOOTH EDGE WITHOUT
LATERAL DEVIATIONS.

2. GRANULAR BASE MATERIAL SHALL BE
IN ACCORDANCE WITH O.P.S.S. 1010.

3. IMPORTED TOPSOIL SHALL CONSIST OF A LOOSE
FRIABLE LOAM SOIL IN ACCORDANCE WITH CITY OF
LONDON CONSTRUCTION SPECIFICATIONS FOR TOPSOIL.

4. PARK STANDARD SEEDING IN ACCORDANCE WITH CITY
OF LONDON CONSTRUCTION SPECIFICATIONS FOR SEEDING
AND COVER

5. FINISHED SLOPE ON BASKETBALL COURTS
SHALL BE IN ACCORDANCE WITH THE CONTRACT
DRAWINGS OR AS SPECIFIED BY THE PROJECT MANAGER

6. ALL DIMENSIONS IN MILLIMETRES.
FAN SHAPED STEEL BACKBOARD
STEEL MOUNTING HARDWARE
HEAVY DUTY DOUBLE HOOP STEEL BASKETBALL GOAL
HEAVY DUTY NYLON BASKETBALL NET
CONCRETE POST FOOTING IN SONO TUBE
COMPACT SUBGRADE TO 98% SPD

NOTES:
1. CONCRETE FOOTING TO BE 25MPa @ 28 DAYS
2. DETAIL TO BE USED IN ACCORDANCE WITH SPO - 13.1 OR SPO - 13.2
3. ALL DIMENSIONS ARE IN MILLIMETRES.

CITY OF LONDON STANDARD DRAWING

BASKETBALL GOAL ASSEMBLY

DWG SPO - 13.4 DATE 2011 09 02 APPROVED BY PARKS PLANNING & DESIGN