APPENDIX A—CITY OF CHICAGO SPECIAL GUIDELINES  
Standard Construction Details

## Table of Contents

<table>
<thead>
<tr>
<th>Description</th>
<th>SHEET</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Section 1: Typical Right of Way</strong></td>
<td></td>
</tr>
<tr>
<td>1) Standard Street Section</td>
<td>A-1-1</td>
</tr>
<tr>
<td>2) Standard Alley Section</td>
<td>A-1-2</td>
</tr>
<tr>
<td>3) Intersection Crosswalk Layout</td>
<td>A-1-3</td>
</tr>
<tr>
<td><strong>Section 2: Pavement Details</strong></td>
<td></td>
</tr>
<tr>
<td>1) Street Cuts and Asphalt Restoration Requirement</td>
<td>A-2-1A thru A-2-1D</td>
</tr>
<tr>
<td>2) Street Pavement Restoration detail</td>
<td>A-2-2A thru A-2-2C</td>
</tr>
<tr>
<td>3) Typical Joint Layout for P. C. Concrete Pavements</td>
<td>A-2-3A thru A-2-3C</td>
</tr>
<tr>
<td>4) Pavement Widening Adjacent to New Construction</td>
<td>A-2-4</td>
</tr>
<tr>
<td>5) Street Widening for diagonal Parking</td>
<td>A-2-5</td>
</tr>
<tr>
<td>6) P. C. Concrete Curb and Gutter</td>
<td>A-2-6</td>
</tr>
<tr>
<td>7) Driveway Construction Detail (See Appendix B. ADA Standards)</td>
<td>A-2-7</td>
</tr>
<tr>
<td>8) Alley Pavement Restoration</td>
<td>A-2-8</td>
</tr>
<tr>
<td>9) P.C.C. Alley Pavement Restoration, Pipe or Conduit Trench Detail,</td>
<td>A-2-9</td>
</tr>
<tr>
<td>Concrete Alley</td>
<td></td>
</tr>
<tr>
<td>10) Alley pavement Restoration, Pipe or Conduit Trench Detail,</td>
<td>A-2-10</td>
</tr>
<tr>
<td>Asphalt Alley</td>
<td></td>
</tr>
<tr>
<td>11) Portland Cement Concrete Alley</td>
<td>A-2-11</td>
</tr>
<tr>
<td>12) Detail of Structure Casting Isolation Box</td>
<td>A-2-12A and A-12-12B</td>
</tr>
<tr>
<td>14) Catch Basin Adjustment in Existing Pavement</td>
<td>A-2-14</td>
</tr>
<tr>
<td>15) Frame Adjustment in Pavement</td>
<td>A-2-15</td>
</tr>
<tr>
<td><strong>Section 3: Sidewalk Details</strong></td>
<td></td>
</tr>
<tr>
<td>1) ADA Compliant Sidewalk Construction Details</td>
<td>A-3-1</td>
</tr>
<tr>
<td>(See Appendix B, ADA Standards)</td>
<td></td>
</tr>
<tr>
<td>2) P. C. Concrete Sidewalk Joint Details</td>
<td>A-3-2</td>
</tr>
<tr>
<td>3) Elimination of Vaulted Sidewalk Adjacent to Building</td>
<td>A-3-3 and A-3-3A</td>
</tr>
<tr>
<td><strong>Section 4: Department of Water Management Details</strong></td>
<td></td>
</tr>
<tr>
<td>1) Catch Basin, Type A, 4’ Diameter</td>
<td>A-4-1</td>
</tr>
<tr>
<td>2) Special Provision for Inlet Control System</td>
<td>A-4-2</td>
</tr>
<tr>
<td>3) Type ‘A’ Manhole for Sewers 21” and Smaller</td>
<td>A-4-3</td>
</tr>
<tr>
<td>4) Type ‘B’ Manhole</td>
<td>A-4-4</td>
</tr>
<tr>
<td>5) Type ‘B’ Manhole for Sewers 24” and Smaller</td>
<td>A-4-5</td>
</tr>
<tr>
<td>6) Drop Manhole Type C</td>
<td>A-4-6</td>
</tr>
<tr>
<td>7) Detail of Storm Sewer Connections to Sewer</td>
<td>A-4-7</td>
</tr>
<tr>
<td>Description</td>
<td>SHEET</td>
</tr>
<tr>
<td>-----------------------------------------------------------------------------</td>
<td>------------</td>
</tr>
<tr>
<td><strong>Section 5: Miscellaneous Details</strong></td>
<td></td>
</tr>
<tr>
<td>1) Tree Planting Detail in Parkway</td>
<td>A-5-1</td>
</tr>
<tr>
<td>2) Tree Planting Detail in Sidewalk (Tree Pit Detail)</td>
<td>A-5-2 and A-5-2A</td>
</tr>
<tr>
<td>3) Trenching Guideline Adjacent to Trees</td>
<td>A-5-3</td>
</tr>
<tr>
<td>4) Bus Shelter</td>
<td>A-5-4A thru A-5-4D</td>
</tr>
<tr>
<td><strong>Section 6: Traffic Control Detail</strong></td>
<td></td>
</tr>
<tr>
<td>1) Area in traffic Control Zone</td>
<td>A-6-1</td>
</tr>
<tr>
<td>2) Lane Closure, 2L, 2W, Short Time Operations</td>
<td>A-6-2</td>
</tr>
<tr>
<td>3) Lane Closure, 2L, 2W Moving Operations – Day Only</td>
<td>A-6-3</td>
</tr>
<tr>
<td>4) Urban Lane Closure, 2L, 2W, Undivided</td>
<td>A-6-4</td>
</tr>
<tr>
<td>5) Urban Lane Closure, 2L, 2W, with Bidirectional Left Turn Lane</td>
<td>A-6-5A and A-6-5B</td>
</tr>
<tr>
<td>6) Urban Lane Closure, 1W or 2W with non-traversable Median</td>
<td>A-6-6A and A-6-6B</td>
</tr>
<tr>
<td>7) Urban Lane Closure, Multilane, 2W, with Bidirectional Left Turn Lane</td>
<td>A-6-7A thru A-6-7D</td>
</tr>
<tr>
<td>8) Urban Lane Closure, Multilane, 2W with Mountable Median</td>
<td>A-6-8A and A-6-8B</td>
</tr>
<tr>
<td>9) Urban Lane Closure, Multilane, Intersection</td>
<td>A-6-9</td>
</tr>
<tr>
<td>10) Traffic Control Devices</td>
<td>A-6-10A thru A-6-10C</td>
</tr>
<tr>
<td>11) Crosswalk and Sidewalk Closure</td>
<td>A-6-11</td>
</tr>
<tr>
<td><strong>Section 7: Pavement Markings</strong></td>
<td></td>
</tr>
<tr>
<td>12) Crosswalk Marking Details</td>
<td>A-7-1</td>
</tr>
<tr>
<td>13) 6’ Bike Symbol</td>
<td>A-7-2</td>
</tr>
<tr>
<td>14) 8’ Bike Symbol</td>
<td>A-7-3</td>
</tr>
<tr>
<td>15) Bike Arrow</td>
<td>A-7-4</td>
</tr>
<tr>
<td>16) Bike Turn Arrow</td>
<td>A-7-5</td>
</tr>
<tr>
<td>17) Bike Chevron</td>
<td>A-7-6</td>
</tr>
</tbody>
</table>
Section 4

DWM Details

DEPARTMENT OF WATER MANAGEMENT DETAILS
NOTE:

HALF-TRAP SHALL BE ENCLOSED WITH 6" CONCRETE SLEEVE AS DIRECTED BY THE COMMISSIONER.

FURNISHING AND INSTALLING THE HALF TRAP AND SAND BACKFILL SHALL BE THE INSTALLER'S RESPONSIBILITY.

PLASTIC Restructure OF THE SIZE AND TYPE APPROVED BUT DEPARTMENT OF WATER MANAGEMENT.

**Restrictors are NOT required on arterials. Streets (Dept. of Water Management).
**SPECIAL PROVISIONS FOR INLET CONTROL SYSTEM**

- **GROUT ANNUlus SPACE FOR WATER TIGHT SEAL**
- **INSERT FOR TIGHT FIT**
- **4"X3" PVC SPIGOT BY HUB FLUSH BUSHING DRAIN WASTE VENT**
- **4"X6" PVC INCREASE COUPLING SCH 40 DRAIN WASTE VENT HUB TO HUB**

**CATCH BASIN WALL**

**OUTLET PIPE**
- **8" Ø VITRIFIED CLAY HALP TRAP**

*PLASTIC RESTRICTOR OF THE SIZE AND TYPE APPROVED BY DEPARTMENT OF WATER MANAGEMENT.

**RESTRICTORS ARE NOT REQUIRED ON ARTERIAL STREETS (DEPT. OF WATER MANAGEMENT).
TYPE 'A' MANHOLE
FOR SEWERS 21" AND SMALLER

NOTE:
FIRST LADDER RUNGS SHOULD BE MAXIMUM OF 31 INCHES DOWN FROM TOP OF MANHOLE FRAME.

ALL LADDER RUNGS SHALL BE ALUMINUM, GALVANIZED WROUGHT IRON OR DUCTILE IRON, 1 INCH DIAMETER.

ALUMINUM LADDER RUNGS SHALL BE COATED WITH ASPHALT PAINT APPLIED BY DIPPING OR BRUSHING ON THE PORTION OF THE RUNGS TO BE IMMERSED IN CONCRETE. THE COATING SHALL EXTEND BEYOND THE IMMERSEMENT AT LEAST TWO INCHES.

FURNISHING AND INSTALLING TYPE X & TYPE Y LADDER RUNGS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR MANHOLES.

LADDER RUNGS

CDOT
CHICAGO DEPARTMENT OF TRANSPORTATION

DATE REVISION CITY OF CHICAGO

TYPE 'A' MANHOLE FOR SEWERS 21" AND SMALLER

DATE SHEET DRAWN BY

12/28/06 A-4-3 CDOT
TYPE "B" MANHOLE - SECTION C-C
FOR SEWERS 24" Ø AND SMALLER

CONCRETE BASE

MATCH INVERTS

VARY SEWER Ø "A" VARY SEES "4" - "6"

STANDARD LADDER RUNGS

PLAN

ELEVATION

TYPE "X"

ELEVATION

TYPE "Y"

HAND HOLD TYPE "Z" RUNGS

SPACING

PLAN

ELEVATION

CDOT
CHICAGO DEPARTMENT OF TRANSPORTATION

CITY OF CHICAGO

DATE REVISION
- -

TYPE 'B' MANHOLE FOR SEWERS 24" AND SMALLER

DATE SHEET DRAWN BY
01-11-2007 A-4-5 CDOT

112
DROP MANHOLE TYPE "C"
SECTION A – A

SECTIONAL PLAN

CDOT
CHICAGO DEPARTMENT OF TRANSPORTATION

<table>
<thead>
<tr>
<th>DATE</th>
<th>REVISION</th>
<th>CITY OF CHICAGO</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>DROP MANHOLE TYPE 'C'</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DATE</th>
<th>SHEET</th>
<th>DRAWN BY</th>
</tr>
</thead>
<tbody>
<tr>
<td>01/03/07</td>
<td>A-4-6</td>
<td>CDOT</td>
</tr>
</tbody>
</table>
DETAIL OF STORM SEWER CONNECTIONS TO SEWER

DETAIL 1

EXISTING OR PROPOSED SEWER

APPROXIMATELY 60°

1" MAX. (SEE NOTE)

SECTIONAL PLAN

DETAIL 2

UNIFORM GRADE (MINIMUM 1%)

1" MAX. (SEE NOTE)

BRICKS LAYED RADially

APPROXIMATELY 45°

EXISTING OR PROPOSED SEWER

SECTIONAL VIEW

DETAIL 3

RISER PIPE

1/2

MAXIMUM GRADE

CURVES TO BE USED WHEN CONNECTING TO SMALL SIZE EXISTING SEWERS.

1" MAX. (SEE NOTE)

SECTIONAL VIEW

NOTE:

FOR CLAY PIPE SEWER, USE A 'Y' BRANCH FOR ALL CONNECTIONS TO PROPOSED SEWERS.

USE A 'T' OR 'Y' SADDLE FOR ALL CONNECTIONS TO EXISTING SEWERS.

USE OF A 'T' OR 'Y' CONNECTION SHALL BE INCIDENTAL TO THE STORM SEWER ITEMS.

OPENINGS IN ALL EXISTING CLAY AND CONCRETE SEWERS ARE TO BE DRILLED THE SAME SIZE AS THE EXTERNAL DIAMETER OF THE PROPOSED PIPE.

CITY OF CHICAGO

DETAIL OF STORM SEWER CONNECTIONS TO SEWER

DATE | REVISION | CITY OF CHICAGO
--- | --- | ---
 | | DETAIL OF STORM SEWER CONNECTIONS TO SEWER

<table>
<thead>
<tr>
<th>DATE</th>
<th>SHEET</th>
<th>DRAWN BY</th>
</tr>
</thead>
<tbody>
<tr>
<td>01/02/07</td>
<td>A-4-7</td>
<td>CDOT</td>
</tr>
</tbody>
</table>
Pruning shall not change the habit of the tree. All cuts shall be made flush. Pruning shall be limited to removal of competing leaders, dead, rubbing, broken, or damaged branches and to compensate for the loss of roots. All pruning to be done after planting.

Wrap entire surface of trunk to height of second branches. Tie securely at top and at 24" intervals vertically.

Existing grade

Depth of rootball

Ball diameter

Twice ball diameter

4" mulch do not place mulch around base of trunk.

5" high saucer at perimeter of planting hole

Untie all cords binding burlap to trunk. Remove all burlap and wire baskets from top 1/3 of rootball.

Backfill with acceptable topsoil carefully compact to eliminate voids per specs.

City of Chicago

Tree planting detail in parkway

Date

Revision

01/11/2007

A-5-1

CDOT
TREE PIT OPENING 5'-0" X 5'-0"

PRUNING SHALL NOT CHANGE THE HABIT OF THE TREE. ALL CUTS SHALL BE MADE JUST OUTSIDE THE BRANCH BARK RIDGE AND COLLAR, ANGULATING AWAY FROM THE STEM. PRUNING SHALL BE LIMITED TO THE REMOVAL OF COMPETING LEADERS OR DEAD, RUBBING, BROKEN, OR DAMAGED BRANCHES AND ONLY AT THE DIRECTION OF THE COMMISSIONER.

1ST LAYER - GALVANIZED HARDWARE CLOTH
2ND LAYER - 2'-4" VOLCANIC ROCK
3RD LAYER - WEED BARRIER
(1ST AND 3RD LAYER NOT NECESSARY OUTSIDE GREATER DOWNTOWN AREA PURSUANT TO LANDSCAPE ORDINANCE)

WRAP ENTIRE SURFACE OF TRUNK TO HEIGHT OF SECOND BRANCHES, TIE SECURELY AT TOP AND AT 2'-0" INTERVALS VERTICALLY (SEE NOTE 1)

PULVERIZED TOP SOIL

ROOTBALL SET INTO UNDISTURBED SUB-Grade TO STABILIZE

SEE TREE PIT - CROSS SECTION DETAIL AND TREE PIT - LONGITUDINAL SECTION DETAIL FOR LIMITS OF EXCAVATION AND BACKFILL

NOTES:
1. TREE WRAP SHOULD ONLY BE INSTALLED DURING THE FALL PLANTING SEASON, ON SPECIES SUSCEPTIBLE TO FROST, CRACKING OR SUN SCALD SUCH AS, BUT NOT LIMITED TO, THE FOLLOWING: ACER, POPULUS, TIJU, LIRIODENDRON AND FRAXINUS AMERICANA.

2. SEE PLANTING DETAIL SPECIFICATION FOR BACKFILL MATERIAL.

3. CONTRACTOR SHALL NOT LIFT TREE BY WIRE BASKET OR TRUNK.

CDOT
CHICAGO DEPARTMENT OF TRANSPORTATION

<table>
<thead>
<tr>
<th>DATE</th>
<th>REVISION</th>
<th>CITY OF CHICAGO</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>TREE PIT DETAIL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DATE</th>
<th>SHEET</th>
<th>DRAWN BY</th>
</tr>
</thead>
<tbody>
<tr>
<td>01/11/2007</td>
<td>A-5-2</td>
<td>CDOT</td>
</tr>
</tbody>
</table>

117
**SPECIFICATIONS FOR TUNNELING OR TRENCHING NEAR TREES FOR THE INSTALLATION OF UNDERGROUND UTILITY SERVICES**

<table>
<thead>
<tr>
<th>TREE DIAMETER</th>
<th>DISTANCE OF TUNNEL FROM TREETRUNK</th>
<th>DISTANCE OF OPEN BYPASS TRENCH FROM TREETRUNK</th>
</tr>
</thead>
<tbody>
<tr>
<td>INCHES</td>
<td>FEET</td>
<td>FEET</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>6</td>
<td>6*</td>
<td>10</td>
</tr>
<tr>
<td>12</td>
<td>6*</td>
<td>12</td>
</tr>
<tr>
<td>18</td>
<td>7*</td>
<td>14</td>
</tr>
<tr>
<td>24+</td>
<td>8*</td>
<td>16</td>
</tr>
</tbody>
</table>

* DEPENDENT ON PARKWAY WIDTH

**DIAGRAM ILLUSTRATING THE USE OF SOIL AUGERS IN THE PRESENCE OF TREES.**

---

**CDOT**

CHICAGO DEPARTMENT OF TRANSPORTATION

<table>
<thead>
<tr>
<th>DATE</th>
<th>REVISION</th>
<th>CITY OF CHICAGO</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>TRENCH GUIDELINES ADJACENT TO TREES</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DATE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>01/11/2007</td>
</tr>
</tbody>
</table>
JCDECAUX BUS SHELTER
3 SECTION—FULL SIZE
NEW INSTALLATION

SIDEWALK

40" MINIMUM SIDEWALK
BEHIND BUS SHELTER

STREET LIGHT
(TYPICAL REF.)

BUS SHELTER
FOOTPRINT

SETBACK DIMENSION:
(CLEAR ZONE)
39' FROM BACK OF CURB

BUS STOP 85'
(NO PLANTER IN SIDEWALK ADJACENT TO BUS STOP)

STREET

DIRECTION OF TRAVEL
JCDECAUX BUS SHELTER
3 SECTION-1 GLASS PANEL REMOVED
NEW INSTALLATION

NOTE:
1 REAR GLASS PANEL REMOVED

SIDEWALK

STREET LIGHT (TYPICAL REF.)

48' MINIMUM SIDEWALK BEHIND BUS SHELTER

BUS SHELTER FOOTPRINT

SETBACK DIMENSION:
(CLEAR ZONE)
39' FROM BACK OF CURB

BACK OF CURB

BUS STOP 85'
(NO PLANTER IN SIDEWALK ADJACENT TO BUS STOP)

OFFSET DIMENSION

STREET

DIRECTION OF TRAVEL

CDOT
CHICAGO DEPARTMENT OF TRANSPORTATION

DATE
REVISION
CITY OF CHICAGO

DATE
01/02/2007

SHEET
A-5-4B

DRAWN BY
CDOT
JCDECAUX BUS SHELTER
2 SECTION—FULL SIZE
NEW INSTALLATION

SIDEWALK

40" MINIMUM SIDEWALK
BEHIND BUS SHELTER

BUS SHELTER FOOTPRINT

STREET LIGHT
(TYPICAL REF.)

LIFT
DEPLOYMENT
CLEAR ZONE

SETBACK DIMENSION
(CLEAR ZONE)
39" FROM BACK OF CURB

10' X 6'
CLEAR ZONE

OFFSET DIMENSION

BUS STOP 85'
(NO PLANTER IN SIDEWALK ADJACENT TO BUS STOP)

STREET

DIRECTION OF TRAVEL

CDOT
CHICAGO DEPARTMENT
OF TRANSPORTATION

<table>
<thead>
<tr>
<th>DATE</th>
<th>REVISION</th>
<th>CITY OF CHICAGO</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>BUS SHELTER</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>01/02/2007</td>
<td>A-5-4C</td>
<td>DRAWN BY CDOT</td>
</tr>
</tbody>
</table>

122
JCDECAUX BUS SHELTER
3 SECTION--NARROW SIZE
NEW INSTALLATION

SIDEWALK

STREET LIGHT
(TYPICAL REF.)

LIFT DEPLOYMENT CLEAR ZONE

BUS SHELTER FOOTPRINT

SETBACK DIMENSION:
(CLEAR ZONE)
48" FROM BACK OF CURB

36" X 36" CLEAR ZONE

48" MINIMUM SIDEWALK
BEHIND BUS SHELTER

13"

10" X 8"
CLEAR ZONE

OFFSET DIMENSION

BUS STOP 85'
(NO PLANTER IN SIDEWALK ADJACENT TO BUS STOP)

STREET

DIRECTION OF TRAVEL

---

DATE  REVISION
-----  ------

CITY OF CHICAGO

BUS SHELTER

DATE  SHEET  DRAWN BY
-----  ------  -------

01/02/2007  A-5-4D  CDOT

123
Section 6

TRAFFIC CONTROL DETAILS
CASE I
(Signs required for two directional)

SIGN SPACING

- [Table with speed and sign spacing]

SYMBOLS

- [Diagram with symbols: Arrow board, Barricade or drum with steady burning non-directional light, Barricade or drum without flashing light, Flagger with traffic control sign, Cone, drum or barricade, Sign on portable or permanent support]

GENERAL NOTES

This Standard is used to close one lane of an urban, two lane, two way roadway with a bi-directional turn lane.

Case I applies when no workers are present; then workers are present, two lanes shall be closed and traffic control shall be according to Standard 105(G).

Calculate L as follows:

SPEED LIMIT FORMULAS

\[
S = \frac{L}{276} + \frac{50}{L}
\]

30 km/h (19 mph) or less:

\[
L = 6.65 \times L_{DD}
\]

\[
S = \frac{L}{276} + \frac{50}{L}
\]

50 km/h (30 mph) or greater:

\[
L = 6.5 \times L_{DD}
\]

Where:

- L = Minimum offset in meters on each
- L_{DD} = Normal posted speed in km/h

All dimensions are in millimeters unless otherwise shown.

URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE

STANDARD 701502-01
**GENERAL NOTES**

1. A temporary walkway may encroach on an existing parking lane. If the temporary walkway encroaches on a travel lane, the lane shall be closed in accordance with appropriate lane closure details. Permits required.

2. The sidewalk closed / use other side sign shall be placed at the nearest crosswalk or intersection to each end of the closure. Where the closure occurs at a corner, the signs shall be erected on the corners across the street from the closure. The sidewalk closed signs shall be used at the ends of the actual closures.

3. All walkways shall be clearly identified, protected from motor vehicle traffic, and free of any obstructions and hazards such as holes, debris, mud, construction equipment, stored materials, etc.

4. All hazards (ditches, trenches, excavations, etc.) near or adjacent to walkways shall be already delineated.

5. Type II barricades and RTI-2-4830 signs shall be positioned as shown in road closed to all traffic detail on highway standard 25SB.

6. When the posted speed limit is 35 M.P.H. or more, all warning signs shall have a minimum dimension of 48 in. or, with the approval of the Engineer, 36 in. by 36 in. If the posted speed limit is 30 M.P.H. or less, all warning signs shall have a minimum dimension of 36 in. by 36 in.

7. When the existing pedestrian access route is blocked by construction, alteration, maintenance, or other temporary conditions, an alternate pedestrian access route complying with the maximum extent feasible with Appendix B, ADA standards shall be approved.

8. Barricades within the pedestrian access route shall have a solid continuous bottom rail between 4" and 12" in height.
SECTION 7: PAVEMENT MARKINGS
GENERAL NOTES:
1. DO NOT INSTALL NEW OR REPLACE EXISTING CROSSWALKS ACROSS STREETS WITH 4 OR MORE LANES AT UNCONTROLLED (NO TRAFFIC SIGNAL OR ALL-WAY STOP) LOCATIONS WITHOUT COORDINATING WITH CDOT TRAFFIC ENGINEERS.
2. STOP LINE SHOULD BE PLACED A MINIMUM OF 4" IN ADVANCE OF A CROSSWALK. AT THE ENGINEER'S DISCRETION, THE STOP BAR MAY BE MORE THAN 4" FROM THE CROSSWALK TO AVOID ENTRAPMENT BY TURNING VEHICLES.
AREA = 16.2 ft²

ALL ROUNDS R1.5" UNLESS OTHERWISE NOTED

DATE | REVISION | CITY OF CHICAGO
-----|----------|------------------

8' BIKE SYMBOL

DATE | SHEET | DRAWN BY
-----|-------|---------
06/25/12 | A-7-3 | CDOT
AREA = 4.56 ft$^2$
NOTE:
THIS SPECIFICATION REPRESENTS THE BIKE LEFT TURN ARROW. FOR A BIKE RIGHT TURN ARROW, USE A MIRROR IMAGE.

AREA = 7.5 FT^2