LEGEND
- SEPARATED BIKE LINES
- SEPARATED MUP
- SHARED MUP
- D D D SEPARATED MUP WITH SAWCUT CONCRETE

All Dimensions Shown In Metres, Unless Otherwise Noted

3
2
1 JULY 2017

Revision Date Approved

Title SEPERATED CYCLING PATHS

Approved

Date JULY 2017

Drawn By Surrey Engineering

CITY CENTRE STANDARD DRAWINGS

CITY OF SURREY
the future lives here.

DRAWING NUMBER CCSD-4
NOTE: UNDERGROUND PARKING TO BE CROPPED BELOW ADJACENT STREET GARDEN

BOULEVARD SECTION
N.T.S.

NOTES:
(1) LANDSCAPED MEDIAN AS PER SSD–R16, LEFT TURN BAY AS PER SSD–R15.
(2) REFER TO SPECIFIC TREATMENT OPTION FOR CIVIC CENTRE, COMMERCIAL, AND RESIDENTIAL FRONTAGE.
(3) DISTRICT ENERGY UTILITY LOCATION TO BE CONFIRMED BY ENGINEERING.

All Dimensions Shown In Metres, Unless Otherwise Noted

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<th>TYPICAL ARTERIAL ROAD CROSS SECTION 32m ROW</th>
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<td>Drawn By</td>
<td>Surrey Engineering</td>
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CITY OF SURREY
the future lives here.

CITY CENTRE STANDARD DRAWINGS

CCSD–5a
NOTES:
(1) EXPANSION JOINTS SHALL USE FULL DEPTH ASPHALT IMPREGNATED FIBREBOARD @ MAXIMUM 9m LONGITUDINAL SPACING. EXPANSION JOINTS SHALL BE PROVIDED AGAINST ALL VERTICAL EDGES AND CHANGE IN MATERIALS. 50mm SMOOTH TROWEL ON BOTH SIDES OF EXPANSION JOINT.
(2) CONTROL JOINTS SHALL HAVE A MAXIMUM 3m SPACING. CONTROL JOINTS SHALL BE SAWCUT ONLY.
(3) CONTROL JOINT AND EXPANSION JOINT LAYOUTS TO BE CHALK MARKED AND APPROVED BY LANDSCAPE ARCHITECT PRIOR TO COMPLETION.
(4) CONCRETE EDGE ALONG PROPERTY LINE TO HAVE 150mm TROWEL FINISH. ALL SCORELINES TO STOP PRIOR TO TROWELED EDGE.
(5) INSTALL SOIL CELL AS PER MANUFACTURERS RECOMMENDATIONS.
BOULEVARD SECTION

NOTES:
1. LANDSCAPED MEDIAN AS PER SSD-R16, LEFT TURN BAY AS PER SSD-R15.
2. REFER TO SPECIFIC TREATMENT OPTION FOR CIVIC CENTRE, COMMERCIAL, AND RESIDENTIAL FRONTAGE.
3. DISTRICT ENERGY UTILITY LOCATION TO BE CONFIRMED BY ENGINEERING.
4. BUFFER SEPARATION BETWEEN TRAVEL LANES AND CYCLE TRACK.

All Dimensions Shown In Metres, Unless Otherwise Noted
NOTES:
(1) 0.5m SRW for I/C & MAINS.
(2) IF BUILDING NOT ADJACENT TO SIDEWALK, ADD ON ADDITIONAL 0.5m TO ROW

All Dimensions Shown In Metres, Unless Otherwise Noted

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Title: PROTECTED BIKE LANE

PLAN VIEW (30m) ROW

CITY CENTRE STANDARD DRAWINGS

Approved Date JULY 2017

Drawn By Surrey Engineering

DRAWING NUMBER CCSD-6b
SECTION THROUGH TREE PLANTING

SECTION THROUGH CUT THROUGH

NOTES:

1. EXPANSION JOINTS SHALL USE FULL DEPTH ASPHALT IMPREGNATED FIBREBOARD & MAXIMUM 9m LONGITUDINAL SPACING. EXPANSION JOINTS SHALL BE PROVIDED AGAINST ALL VERTICAL EDGES AND CHANGE IN MATERIALS. 50mm SMOOTH TROWEL ON BOTH SIDES OF EXPANSION JOINT.

2. CONTROL JOINTS SHALL HAVE A MAXIMUM 3m SPACING. CONTROL JOINTS SHALL BE SAWCUT ONLY.

3. CONTROL JOINT AND EXPANSION JOINT LAYOUTS TO BE CHALK MARKED AND APPROVED BY LANDSCAPE ARCHITECT PRIOR TO COMPLETION.

4. CONCRETE EDGE ALONG PROPERTY LINE TO HAVE 150mm TROWEL FINISH. ALL SCORELINES TO STOP PRIOR TO TROWELED EDGE.

5. INSTALL SOIL CELL AS PER MANUFACTURERS RECOMMENDATIONS.
BOULEVARD SECTION

NOTES:

(1) LANDSCAPED MEDIAN AS PER SSD–R16, LEFT TURN BAY AS PER SSD–R15.
(2) REFER TO SPECIFIC TREATMENT OPTION FOR CIVIC CENTRE, COMMERCIAL, AND RESIDENTIAL FRONTAGE.
(3) BUFFER SEPARATION BETWEEN TRAVEL LANES AND CYCLE TRACK.
(4) DISTRICT ENERGY UTILITY LOCATION TO BE CONFIRMED BY ENGINEERING.
NOTES:
(1) 0.5m SRW for I/C & MAINS.
(2) IF BUILDING NOT ADJACENT TO SIDEWALK, ADD ON ADDITIONAL 0.5m TO ROW

All Dimensions Shown In Metres, Unless Otherwise Noted

Title
PROTECTED BIKE LANE
PLAN VIEW (24m) ROW

Revision Date
JULY 2017

Date
JULY 2017

Approved

DRAWING NUMBER
CCSD-7b
SECTION THROUGH TREE PLANTING

SECTION THROUGH CUT THROUGH

NOTES:
(1) EXPANSION JOINTS SHALL USE FULL DEPTH ASPHALT IMPREGNATED FIBREBOARD @ MAXIMUM 9m LONGITUDINAL SPACING. EXPANSION JOINTS SHALL BE PROVIDED AGAINST ALL VERTICAL EDGES AND CHANGE IN MATERIALS. 50mm SMOOTH TROWEL ON BOTH SIDES OF EXPANSION JOINT.
(2) CONTROL JOINTS SHALL HAVE A MAXIMUM 3m SPACING. CONTROL JOINTS SHALL BE SAWCUT ONLY.
(3) CONTROL JOINT AND EXPANSION JOINT LAYOUTS TO BE CHALK MARKED AND APPROVED BY LANDSCAPE ARCHITECT PRIOR TO COMPLETION.
(4) CONCRETE EDGE ALONG PROPERTY LINE TO HAVE 150mm TROWEL FINISH. ALL SCORELINES TO STOP PRIOR TO TROWELED EDGE.
(5) INSTALL SOIL CELL AS PER MANUFACTURERS RECOMMENDATIONS.

3
2
1 JULY 2017

Title
PROTECTED BIKE LANE
CROSS SECTION (24m) ROW

All Dimensions Shown In Metres,
Unless Otherwise Noted

Approved

DRAWING NUMBER
CCSD–7c

Date
JULY 2017

Drawn By
Surrey Engineering
NOTES:
(1) REFER TO MINIMUM SPACING BETWEEN SEWERS IN THE COMMON TRENCH DRAWING SSD–G.3.
(2) REFER TO SPECIFIC TREATMENT OPTION FOR CIVIC CENTRE, COMMERCIAL, AND RESIDENTIAL FRONTAGE.
All Dimensions Shown in Metres, Unless Otherwise Noted

Title: LOCAL BOULEVARD FOR 20M ROW HARDSCAPE FRONTAGE

Revision Date Approved
JULY 2017

Drawn By: Surrey Engineering

CITY OF SURREY
CITY CENTRE STANDARD DRAWINGS

Approved Date: JULY 2017
DRAWING NUMBER: CCSD-8b
EXPANSION JOINT (TYPICAL) TREE PIT/BOULEVARD STREET LIGHT AS PER CCSD— BENCHES OR OTHER STREET FURNITURE AS PER CCSD—14g STREET TREES AS PER CITY CENTRE STREET TREE MAP CCSD—3

25mm ARCHITECTURAL SAWCUT, (TYP.)

A

PROPERTY LINE

PLAN

SECTION A—A

TREE PIT / BOULEVARD

BC HYDRO, TELUS, VAULTS, LT/P ELMs MHs (TYP.)

H/T/C/E/O, JUNCTION BOXES

ORNAMENTAL GRASS

BENCH AS PER CCSD—__ (TYP.)

PED./STREETLIGHT SEE DWG. CCSD—__ OTHER ABOVE GROUND FURNITURE

BIKE RACK AS PER DWG. CCSD—22

BOULEVARD TREATMENT AS PER CCSD—11d (TYP.)

150mm THICK BROOM FINISH CONCRETE (TYPICAL)

SOIL CELL (TYP.) SEE DWG. CCSD—11e

19mm ROAD BASE COMPACTED TO 95% MPD

All Dimensions Shown In Metres, Unless Otherwise Noted

Title: LOCAL BOULEVARD FOR 20m ROW BLVD TREATMENT PLAN & SECTION

Approved

DRAWING NUMBER CCSD—8c

Date: JULY 2017

Drawn By: Surrey Engineering
TREE PLANTING

NOTES:
(1) EXPANSION JOINTS SHALL USE FULL DEPTH ASPHALT IMPREGNATED FIBREBOARD @ MAXIMUM 9m LONGITUDINAL SPACING. EXPANSION JOINTS SHALL BE PROVIDED AGAINST ALL VERTICAL EDGES AND CHANGE IN MATERIALS. 50mm SMOOTH TROWEL ON BOTH SIDES OF EXPANSION JOINT.
(2) CONTROL JOINTS SHALL HAVE A MAXIMUM 3m SPACING. CONTROL JOINTS SHALL BE SAWCUT ONLY.
(3) CONTROL JOINT AND EXPANSION JOINT LAYOUTS TO BE CHALK MARKED AND APPROVED BY LANDSCAPE ARCHITECT PRIOR TO COMPLETION.
(4) INSTALL SOIL CELL AS PER MANUFACTURE RECOMMENDATION.
TYPICAL RESIDENTIAL EXAMPLE

2.0 SIDEWALK
0.5 SRW
2.5 BOULEVARD
0.15

ALIGN EXPANSION JOINT ALONG TREE PAD

EXPANSION JOINT (TYP.)

STREET LIGHT AS PER CCSD-

ENGINEERING TO SPECIFY BIKE RACK, GARBAGE CAN, BENCHES, AND OTHER STREET FURNITURE

H/T/C/F.O. JUNCTION BOXES

LOCATION FOR BC HYDRO, TELUS, VAULTS, LPT'S, MH'S(TYP.)

SEE DWG.-8d FOR SECTION

STREET TREES AS PER CITY CENTRE STREET TREE MAP CCSD-3

TREE PIT/BOULEVARD AS PER CCSD-8c & 8f

OTHER ABOVE GROUND FURNITURE

1.0x1.0 SAWCUT CONCRETE SIDEWALK

PLANT
NOTES:

1. PLANT MATERIAL TO BE SELECTED FROM LIST OF ACCEPTABLE PLANT MATERIAL OF SURREY PARKS DIVISION

2. PROTECT PLANT MATERIAL FROM DAMAGE DURING TRANSPORTATION AND PLANTING.

3. LOCATE AND FLAG ALL BURIED UTILITIES IN PLANTING BEDS PRIOR TO DIGGING ENSURE THAT UTILITIES ARE PROTECTED DURING CONSTRUCTION.

4. DO NOT EXPOSE PLANTS TO DIRECT SUN OR FROST.

5. PRUNE ONLY IN ACCORDANCE WITH STANDARD CONSTRUCTION DOCUMENTS.
SECTION A-A

NOTES:  
1. TREE SPECIES TO BE AS PER CITY CENTRE STREET TREE AREA MAP CCSD-4.  
2. BOULEVARD TO BE SODDED WITH MIN. 450mm THICK ABSORBANT TOPSOIL.  
3. COLUMNER STREET TREES
NOTES:  
(1) TREE SPECIES TO BE AS PER CITY CENTRE STREET TREE AREA MAP CCSD-4. 
(2) BOULEVARD TO BE SODDED WITH MIN. 450mm THICK ABSORBANT TOPSOIL. 
(3) ADDITIONAL STREET TREES MAY BE PLACED IN SMALL GROUPINGS WITH A MIXTURE 
OF LARGE CANOPY AND MEDIUM UNDERSTORY TREES IN CURB EXTENSION AS 
DIRECTED BY ENGINEER. 
(4) PARKING MAY BE PERMITTED IN LANE AS DIRECTED BY ENGINEER.
ENGINEERING TO SPECIFY BIKE RACK, GARBAGE CAN, BENCHES, AND OTHER STREET FURNITURE

BIKE RACKS AS PER CCSD-14f

1.5x1.0 SAWCUT CONCRETE SIDEWALK

PRIVATE IRRIGATION REQUIRED FOR PLANTING ZONE

BENCHES AS PER CCSD-14g

I/C’S AND VALVES CENTRED IN 0.5 ROW

ASPHALT MUP TO BE 65mm THICK UC#2

ASPHALT WITH 100mm GRANULAR BASE

ALL BIKE LINES SHALL BE ABLE TO WITHSTAND A MAINTENANCE VEHICLE: MINI SWEEPER, MINI SNOWPLOW, PICK-UP TRUCK (PARKS OPERATIONS)

ORNAMENTAL GRASS

GARBAGE BIN

200mm CONCRETE FLAT CURB (250mm THICK)

NOTES:
(1) 0.5m SRW FOR I/C & MAINS
(2) IF BUILDING NOT ADJACENT TO SIDEWALK, ADD A 0.5m TO ROW

3
2
1 JULY 2017

Title: BC PARKWAY WITH HARDSCAPE BOULEVARD

All Dimensions Shown In Metres, Unless Otherwise Noted

DRAWING NUMBER

Approved

City of Surrey

CITY CENTRE STANDARD DRAWINGS

Date

Drawn By

Surrey Engineering
450mm DEEP PLANTER
BED WITH SURREY
APPROVED GROWING MEDIUM

SECTION THROUGH TREE PLANTING

NOTES:
1. EXPANSION JOINTS SHALL USE FULL DEPTH ASPHALT IMPREGNATED FIBREBOARD @ MAXIMUM 9m
   LONGITUDINAL SPACING. EXPANSION JOINTS SHALL BE PROVIDED AGAINST ALL VERTICAL EDGES AND
   CHANGE IN MATERIALS. 50mm SMOOTH TROWEL ON BOTH SIDES OF EXPANSION JOINT.
2. CONTROL JOINTS SHALL HAVE A MAXIMUM 3m SPACING. CONTROL JOINTS SHALL BE SAWCUT ONLY.
3. CONTROL JOINT AND EXPANSION JOINT LAYOUTS TO BE CHALK MARKED AND APPROVED BY
   LANDSCAPE ARCHITECT PRIOR TO COMPLETION.
4. CONCRETE EDGE ALONG PROPERTY LINE TO HAVE 150mm TROWEL FINISH. ALL SCORELINES TO STOP
   PRIOR TO TROWELED EDGE.

All Dimensions Shown In Metres,
Unless Otherwise Noted

Title
BC PARKWAY WITH HARDSCAPE BLVD –
CROSS SECTION

Approved

Date
JULY 2017

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SURREY
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CITY CENTRE
STANDARD
DRAWINGS

DRAWING NUMBER
CCSD–10b

Drawn By
Surrey Engineering
SECTION THROUGH TREE PLANTING

SECTION THROUGH CUT THROUGH

NOTES:
1. EXPANSION JOINTS SHALL USE FULL DEPTH ASPHALT IMPREGNATED FIBREBOARD @ MAXIMUM 9m LONGITUDINAL SPACING. EXPANSION JOINTS SHALL BE PROVIDED AGAINST ALL VERTICAL EDGES AND CHANGE IN MATERIALS. 50mm SMOOTH TROWEL ON BOTH SIDES OF EXPANSION JOINT.
2. CONTROL JOINTS SHALL HAVE A MAXIMUM 3m SPACING. CONTROL JOINTS SHALL BE SAWCUT ONLY.
3. CONTROL JOINT AND EXPANSION JOINT LAYOUTS TO BE CHALK MARKED AND APPROVED BY LANDSCAPE ARCHITECT PRIOR TO COMPLETION.
4. CONCRETE FINISH TO MATCH EXISTING CONCRETE SIDEWALK FINISH
5. CONCRETE EDGE ALONG PROPERTY LINE TO HAVE 150mm TROWEL FINISH. ALL SCORERLINES TO STOP PRIOR TO TROWEL EDGE.
NOTE: 1. STANDARD RAMP LENGTH: 2.0m AT CENTRE OF RAMP. RECOMMENDED RAMP SLOPE: 7.1% ± 1.2%
MAX. SLOPE 8.3% (1:12) WHERE TOPOGRAPHY PERMITS. ADJUST LENGTH OF RAMP AS REQUIRED WHEN SITE CONDITIONS DO NOT PERMIT TYPICAL LAYOUT. CONTACT CITY ENGINEER FOR APPROVAL OF DESIGN.

SCORE LINES MUST LINE UP IN DIRECTION OF TRAVEL AND BE PARALLEL WITH THE CROSSING OR MARKED CROSSWALK. SCORE LINES TO BE 40cm APART. USE 3/8" TROWEL. TROWEL EDGE TO BE AS CLOSEST TO FLUSH AS POSSIBLE WITH BROOM FINISH.

SINGLE RAMP

RAMP SHALL BE UNIFORM THICKNESS OF 100mm FROM TOP OF LIP TO TOP OF SIDEWALK
BARRIER CURB & GUTTER

MAX. RISE 0.01 FROM GUTTER LINE TO BACK OF CURB

SECTION A—A CURB RAMP

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Title: SINGLE LETDOWN AT INTERSECTION BOULEVARD

CITY CENTRE STANDARD DRAWINGS

Approved
Date | JULY 2017
Drawn By | Surrey Engineering

DRAWING NUMBER: CCSD-11a
NOTE: 1. STANDARD RAMP LENGTH: 2.0m AT CENTRE OF RAMP. RECOMMENDED RAMP SLOPE: 7.1% ± 1.2%
MAX. SLOPE 8.3% (1:12) WHERE TOPOGRAPHY PERMITS. ADJUST LENGTH OF RAMP AS REQUIRED WHEN SITE CONDITIONS DO NOT PERMIT TYPICAL LAYOUT. CONTACT CITY ENGINEER FOR APPROVAL OF DESIGN.

SPLIT LETDOWN

RAMP SHALL BE UNIFORM THICKNESS OF 100mm FROM TOP OF LIP TO TOP OF SIDEWALK

NOTE: MAX. RISE 0.01 FROM GUTTER LINE TO BACK OF CURB

SECTION A—A CURB RAMP

All Dimensions Shown In Metres, Unless Otherwise Noted

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Title
SPLIT LETDOWN AT INTERSECTION BOULEVARD GREATER THAN 4.50m

Approved
Date JULY 2017
Drawn By Surrey Engineering

CITY OF SURREY
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CITY CENTRE STANDARD DRAWINGS

DRAWING NUMBER CCSD-11b
NOTE: 1. STANDARD RAMP LENGTH: 2.0m AT CENTRE OF RAMP. RECOMMENDED RAMP SLOPE: 7.1% ± 1.2%
MAX. SLOPE 8.3% (1:12) WHERE TOPOGRAPHY PERMITS. ADJUST LENGTH OF RAMP AS REQUIRED WHEN SITE CONDITIONS DO NOT PERMIT TYPICAL LAYOUT. CONTACT CITY ENGINEER FOR APPROVAL OF DESIGN.

SCORE LINES MUST LINE UP IN DIRECTION OF TRAVEL AND BE PARALLEL WITH THE CROSSING OR MARKED CROSSWALK. SCORE LINES TO BE 40cm APART. USE 3/8" TROWEL.
TROWEL EDGE TO BE AS CLOSEST TO FLUSH AS POSSIBLE WITH BROOM FINISH.

PLAN

RAMP SHALL BE UNIFORM THICKNESS OF 100mm FROM TOP OF LIP TO TOP OF SIDEWALK

BARRIER CURB & GUTTER

NOTE: MAX. RISE 0.01 FROM GUTTER LINE TO BACK OF CURB

SECTION A—A CURB RAMP

All Dimensions Shown In Metres, Unless Otherwise Noted

Title | SINGLE RAMP LETDOWN WITH PARALLEL SCORING

Approved

Date | JULY 2017

Drawn By | Surrey Engineering

DRAWING NUMBER | CCSD—11c

Approved

Date | JULY 2017

Drawn By | Surrey Engineering

DRAWING NUMBER | CCSD—11c
RAMP SHALL BE UNIFORM THICKNESS FROM TOP OF LIP TO FRONT OF SIDEWALK

25 LIP WITH 15 RADIUS

4.9 TYP. (±)

4.5% ± 1.0%

2.0%

0.12 THICK CONCRETE SIDEWALK

COMPACT GRANULAR BASE TO 95% MPD

ASPHALT SEPARATED BIKE LANE TO MATCH DRIVEWAY THICKNESS

CONC. BARRIER CURB

CONCRETE SIDEWALK
Type II

Ramp shall be uniform thickness from top of lip to front of sidewalk

25 lip with 15 radius

6.5 max

2.0

2.0m

2.0m

0.12 thick concrete sidewalk

Sodded boulevard

Compact granular base to 95% MPD

Asphalt mup to match driveway thickness

Conc. sidewalk

Conc. Barrier curb

R = 2.5m (typ.)

10.0

2.0

8.0 typ.

1.0 typ.
ABOVE GROUND UTILITY OR STREET TREE

CONTRACTION JOINT

EXPANSION JOINT AT BACK OF SIDEWALK IF ABUTTING DRIVEWAY IS CONCRETE

TOOLED LINES @ 300 SPACING

CONTRACTION JOINT

CUT CONTRACTION JOINT AT CENTRELINE OF DRIVEWAY WHERE 'W' EXCEEDS 5.0m AND INSTALL EXPANSION JOINT WHERE 'W' EXCEEDS 8.0m

---

**ZONE** | **OPERATION** | **W MIN. (m)** | **S MIN. DISTANCE FROM SIDE PROPERTY LINE (m)** | **θ MIN. ANGLE BTWN. THE FRONTAGE PROP. LINE AND THE EDGE OF DRIVEWAY (DEG.)**
--- | --- | --- | --- | ---
SINGLE FAMILY RESIDENTIAL | N/A | 4.5 | 6.0 | 1.2 | 90
MULTI FAMILY RESIDENTIAL | TWO WAY | N/A | 7.3 | 2.0 | 90
| ONE WAY | N/A | 4.5 | 2.0 | 45
LANE | RESIDENTIAL | N/A | 7.3 | 2.0 | 90
| COMMERCIAL | N/A | 9.3 | 2.0 | 45
COMMERCIAL | TWO WAY | 7.3 | 9.0 | 2.0 | 90
| ONE WAY | N/A | 4.5 | 2.0 | 45
INDUSTRIAL | TWO WAY | 9.0 | 11.0 | 2.0 | 90
| ONE WAY | N/A | 5.0 | 2.0 | 30

**NOTES:**
(1) FOR SECTION A–A REFER TO SSD–R.42.1.
(2) FOR UTILITY STRIP LESS THAN 2.0m, LETDOWN SLOPE SHALL BE 2% AND REFER TO SECTION B–B ON SSD–R.42.1.
(3) FRAIL IS NOT PERMITTED FOR SINGLE FAMILY RESIDENTIAL UNLESS DIRECTED BY ENGINEER.
(4) EXPANSION JOINTS SHALL USE FULL DEPTH ASPHALT IMPREGNATED FIBREBOARD @ MAXIMUM 9m LONGITUDINAL SPACING. EXPANSION JOINTS SHALL BE PROVIDED AGAINST ALL VERTICAL EDGES AND CHANGE IN MATERIALS.
LED LUMINAIRE

DUPLEX RECEPTACLE
C/W "IN-USE" WEATHERPROOF COVER.
PAINT TO MATCH POLE

BASE DETAILS
TO BE DETERMINED BY
ENGINEER TO SUIT POLE
LOADING FACTORS

TYPICAL PROPOSED TYPE 'A'
DECORATIVE LUMINAIRE POST

NOTES:
(1) BOX FOR FUSE AND PHOTOCELL TO BE INSTALLED WHERE IDENTIFIED BY
STREETLIGHT ENGINEER.
(2) POLE TO BE POWDER COATED BLACK.
7.61m, 8" ROUND GATEWAY SURREY POLE
IN ACCORDANCE WITH SSD E-3, WITH
EXCEPTION TO THE LUMINAIRES. EXACT
POLE SIZE/THICKNESS TO BE DETERMINED
THE ENGINEER TO SUIT NEW BANNER ARMS

DUPLEX RECEPTACLE C/W "IN-USE"
WEATHERPROOF COVER, PAINT
TO MATCH POLE

LED LUMINAIRE

BASE DETAILS TO BE
DETERMINED BY THE ENGINEER
TO SUIT POLE LOADING FACTORS

TYPICAL PROPOSED TYPE 'B'
DECORATIVE LUMINAIRE POLE

NOTES:  
(1) TYPICAL 3.2m SPACING ON OPPOSITE SIDES, NOT STAGGERED
SUBJECT TO ENGINEER APPROVAL
(2) SUBJECT TO EXCEEDING ILLUMINATION REQUIREMENTS.
(3) POLE TO BE POWDER COATED RAL 7016 (GREY).
LED LUMINAIRE

9.60m, 6" ROUND GATEWAY SURREY POLE
IN ACCORDANCE WITH SSD E-4, WITH
EXCEPTION TO THE LUMINAIRES. EXACT
POLE SIZE/THICKNESS TO BE DETERMINED
BY THE ENGINEER

DUPLEX RECEPTACLE TO BE
FACING AWAY FROM TRAFFIC
C/W "IN-USE" WEATHERPROOF
COVER. PAINT TO MATCH POLE

LED LUMINAIRE

BASE DETAILS TO BE
DETERMINED BY THE ENGINEER
TO SUIT POLE LOADING FACTORS

TYPICAL PROPOSED TYPE 'C'
DECORATIVE LUMINAIRE POLE

NOTES:
(1) TYPICAL 40m SPACING ON OPPOSITE SIDES, NOT STAGGERED
SUBJECT TO ENGINEER APPROVAL
(2) SUBJECT TO EXCEEDING ILLUMINATION REQUIREMENTS
(3) 11m POLE MAY BE REQUIRED.
(4) POLE TO BE POWDER COATED BLACK.
(5) TO ACCOMMODATE BANNER ARMS, CONFIRM WIND LOADING
WITH STRUCTURAL ENGINEERING

All Dimensions Shown In Metres,
Unless Otherwise Noted

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CITY CENTRE STANDARD DRAWINGS

CCSD-14c
LED LUMINAIRE

OVERHEAD STREET NAME SIGN
SUPPLIED BY SURREY AND
INSTALLED BY CONTRACTOR (TYP.)

SECONDARY HEAD
C/W 300mm LONG
TUNNEL VISORS
(TYPICAL)

PEDESTRIAN
PUSH BUTTON

TYPE L2 CONCRETE BASE
C/W 1–75mm RPVC

NOTES: (1) POLES TO BE POWDER COATED BLACK.
LEFT SIDE VIEW
NTS

FRONT SIDE VIEW
NTS

ISOMETRIC VIEW
NTS

Title: TYPICAL TRASH CAN (BIG BELLY)

All Dimensions Shown in Metres,
Unless Otherwise Noted
SPECIFICATIONS

BICYCLE CAPACITY 2
RECOMMENDED SPACING 1.2m OC
MINIMUM SPACING 0.9m OC
LONGITUDINAL SPACING 3.0m OC

ASSEMBLY MATERIAL MILD STEEL (STAINLESS 304)
TUBE SIZE 40.0mm
WALL THICKNESS 3.0mm
LOGO BAR 4.0mm PLATE
WEIGHT 8.4KG

FINISH POWDER COATED OVER ZINC PRIMER
#4 POLISH (STAINLESS STEEL ONLY)

ANCHOR TYPE CONCRETE WEDGE ANCHOR
13mm X 75mm
GALVANIZED (STAINLESS)
OPTIONAL BREAKAWAY NUTS

All Dimensions Shown in Metres, Unless Otherwise Noted

Title TYPICAL BIKE RACK (BR1)

Approved
Date JULY 2017
Drawn By Surrey Engineering

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CITY CENTRE STANDARD DRAWINGS

DRAWING NUMBER CCSD-14f
### SURREY TYPICAL ORNAMENTAL GRASSES

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<th>BOTANICAL NAME</th>
<th>COMMON NAME</th>
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<tr>
<td><strong>GRASSES, FESCUES AND SEDGES</strong></td>
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<tr>
<td>CALAMAGROSTIS ACUTIFOLIA</td>
<td>FEATHER REED GRASS</td>
</tr>
<tr>
<td>CAREX VARIETIES</td>
<td>SEDGE</td>
</tr>
<tr>
<td>FESTUCA GLUACA</td>
<td>BLUE FESCUE</td>
</tr>
<tr>
<td>HELICOTOTRICHON</td>
<td>BLUE OAT GRASS</td>
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<td>STIPA TENUISSIAN</td>
<td>FEATHER GRASS</td>
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**BOULEVARD GRASS PLAN VIEW**

**ORNAMENTAL GRASS PLAN VIEW**

**BOULEVARD GRASS SECTION VIEW**

**ORNAMENTAL GRASS SECTION VIEW**

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**Revision**

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**Title**

**ORNAMENTAL GRASSES**

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**Approved**

- **Date**: JULY 2017
- **Drawn By**: Surrey Engineering

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**DRAWING NUMBER**

**CCSD-15**