

DRAWING No.

C0.1

Concrete & Miscellaneous Details

Sheet Number	Sheet Title	Description
C0.1	DRAWING INDEX	CONCRETE & MISCELLANEOUS DETAILS
C0.2	DRAWING INDEX	CONCRETE & MISCELLANEOUS DETAILS
C1.1	SIDEWALKS	RESIDENTIAL SIDEWALK
C2.1	SIDEWALKS	COMMERCIAL SIDEWALK 1.8m - 2.4m
C2.2	SIDEWALKS	COMMERCIAL SIDEWALK > 2.4m
C4.1	CURBS	CONCRETE CURB TYPE A
C4.2	CURBS	CONCRETE CURB TYPE B
C4.3	CURBS	CONCRETE CURB TYPE C
C4.4	CURBS	CONCRETE CURB TYPE D
C4.5	CURBS	CONCRETE CURB TYPE E
C4.6	CURBS	CONCRETE CURB TYPE F
C5.1	CURBS	TEMPORARY CONCRETE & ASPHALT
C6.1	CURBS	CURB DRAINS AND BACKFILL
C6.2	CURBS	CONSTRUCTION DETAILS
C6.3	CURBS	STANDARD STEEL CURB INLET
C7.1	DRIVEWAYS	RESIDENTIAL DRIVEWAY CROSSING
C7.2	DRIVEWAYS	COMMERCIAL DRIVEWAY CROSSING
C7.3	DRIVEWAYS	BIKE LANE DRIVEWAY CROSSING
C8.1	CURB RAMPS	DOUBLE CURB RAMP (PREFERRED)
C8.2	CURB RAMPS	LARGE SINGLE CURB RAMP
C8.3	CURB RAMPS	SINGLE CURB RAMP
C8.4	CURB RAMPS	T-INTERSECTION CURB RAMP
C9.1	LANEWAYS	LANE CURB RAMP
C9.2	LANEWAYS	CONCRETE CROSSING
C9.3	LANEWAYS	BIKE LANE LANEWAY CROSSING
C12.1	BOLLARDS	PARTS LIST & ASSEMBLED PARTS
C12.2	BOLLARDS	COVER PLATE & BURN TABLE PATTERNS
C12.3	BOLLARDS	RECEIVER ASSEMBLY
C12.4	BOLLARDS	INSERT ASSEMBLY
C12.5	BOLLARDS	COMPLETE BOLLARD ASSEMBLY
C12.6	BOLLARDS	SINGLE LOCK ASSEMBLY & INSTALLATION
C12.7	BOLLARDS	DOUBLE LOCK ASSEMBLY & INSTALLATION
C12.8	BOLLARDS	BIKE FRIENDLY BOLLARDS
C15.1	MEDIANS	MEDIAN CURB
C15.2	MEDIANS	BARRIER CURB
C16.1	BUS	REINFORCED BUS SLAB
C17.1	TRAFFIC CALMING	RAISED CROSSWALK (80mm) - PLAN

REV. REVISION DATE APPROVED

DRAWING INDEX CONCRETE & MISCELLANEOUS DETAILS

ISSUE DATE: SEPTEMBER 2018 APPROVED BY: J. LEE



DRAWING No.

Concrete & Miscellaneous Details

Sheet Number	Sheet Title	Description
C17.2	TRAFFIC CALMING	RAISED CROSSWALK (80mm) - SECTIONS
C17.3	TRAFFIC CALMING	RAISED CROSSWALK (125mm) - PLAN
C17.4	TRAFFIC CALMING	RAISED CROSSWALK (125mm) - SECTIONS
C18.1	TRAFFIC CALMING	SPEED HUMP (30km/hr)
C18.2	TRAFFIC CALMING	SPEED HUMP (40km/hr)
C18.3	TRAFFIC CALMING	LANE SPEED HUMP VALLEY DRAINAGE
C19.1	SIGNAGE	PARKING METER SLEEVE
C19.2	SIGNAGE	TRAFFIC SIGN SLEEVE
C19.3	SIGNAGE	BUS STOP SIGN SLEEVE

REV.	REVISION DATE	APPROVED

DRAWING INDEX CONCRETE & MISCELLANEOUS DETAILS

ISSUE DATE: SEPTEMBER 2018 APPROVED BY: J. LEE









DRAWING No.

C4.1













DRAWING No.

C4.6











DRAWING No.

C6.3







STANDARD DETAIL DRAWINGS ENGINEERING SERVICES - VANCOUVER, B.C.

DRAWING No.

C7.3















STANDARD DETAIL DRAWINGS ENGINEERING SERVICES - VANCOUVER, B.C.

DRAWING No.

C9.3





DRAWING No.

C12.1

	1 AL						
			PARTS LIST				
ITEM	QTY	PART #	DESCRIPTION	MATERIAL	LENGTH	WIDTH	MASS (kg)
1	1	CROSBY 1014075	9.5mm WELDLESS END LINK	STEEL, GALVANIZED			0.10
2	1		CONCRETE ROD	STEEL, MILD	165.1	12.7	0.16
3	1		COVER PLATE	STEEL, MILD, 9.5mm	120.7	120.7	0.68
4	3		DIAMOND GRADE REFLECTIVE TAPE	VINYL (DECAL)	277.8	101.6	0.03
5	2	IFI 128-3/8-16	HEX COUPLING NUT - UNC	STEEL, MILD			0.03
6	1		LOCK TAB	STEEL, MILD, 6.4mm	44.5	82.6	0.17
7	1	75mm SCHED 40 PIPE	PIPE INSERT	STEEL, MILD	1124.0		11.01
8	1	100mm SCHED 40 PIPE	PIPE RECEIVER	STEEL, MILD	355.6		5.71
9	1		PIPE STIFFENER	STEEL, MILD, 6.4mm	111.1	117.5	0.55
10	1		ROD	STEEL, MILD	50.8	9.5	0.03
11	1	SHARPEPRODUCTS 9112	STEEL DOMED WELD-ON CAP	STEEL, MILD			0.27
12	2	IFI-3/8-16-UNC x 1.25	SQUARE RECESSED FLAT COUNTERSUNK HEAD MACHINE SCREW - TYPE III - UNC	STEEL, MILD			0.02
32	1	GUARD 836/50	#12 PADLOCK	BRASS. SOFT YELLOW			0.38
(8		(DECALS TO BE PL AFTER FINISHING	(11) (4) ACED IS APPLIED)		(7

NOTES:

- 1. BURN TABLE PROGRAMS MADE FOR COVER PLATE, STIFFENER, AND LOCK TAB.
- 2. ENTIRE ASSEMBLY INCLUDING BASE TO HDG (HOT DIPPED GALVANIZED) CONFIRM WITH RELATED WORK ORDER.
- 3. PAINTING AS PER WORK ORDER.
- 4. ALL DIMENSIONS IN MILLIMETERS UNLESS STATED OTHERWISE.

SCALE: N.T.S.

6)

				ISSUE DATE: SEPTEMBER 2018
			BULLARDS	ISSUE DATE. SEPTEMBER 2010
			PARTS LIST & ASSEMBLED PARTS	APPROVED BY: R. KENNY
REV.	REVISION DATE	APPROVED	TAILIS EIST & ASSEMBLED TAILIS	

9

8

2

3



DRAWING No.







NOTES:

- 1. BURN TABLE PROGRAMS MADE FOR COVER PLATE, STIFFENER, AND LOCK TAB.
- 2. ENTIRE ASSEMBLY INCLUDING BASE TO HDG (HOT DIPPED GALVANIZED) CONFIRM WITH RELATED WORK ORDER.
- 3. PAINTING AS PER WORK ORDER.

9.5

355.6

4. ALL DIMENSIONS IN MILLIMETERS UNLESS STATED OTHERWISE.

SCALE: N.T.S.

			BOLLARDS	ISSUE DATE: SEPTEMBER 2018
			RECEIVER ASSEMBLY	APPROVED BY: R. KENNY
REV.	REVISION DATE	APPROVED	RECEIVER ASSEMBLT	



REVISION DATE

REV.

APPROVED

STANDARD DETAIL DRAWINGS ENGINEERING SERVICES - VANCOUVER, B.C.

DRAWING No.







DRAWING No.

				PLAN	365.1
	COMPLE	TE BOLLARD	BOLLARD POST	BOLLARD E	BASE
	MANUFACTURING NOTES: 1. BOLLARDS MAY BE LE 2. OTHER OPTIONS AND BASIC INSTALLATION NOTES: 1. TEMPORARY SLEEVE ADHERE TO CONCRET NEEDS CLEANING OUT 2. CONCRETE DIAMETER 3. CONCRETE DEPTH TO 4. KEEP CONCRETE OUT 5. RECEIVER MUST BE IN 6. DRAINAGE ROCK DEP USU. 100mm - 600mm) (IMPROPER INSTALLATION CO BOW OUT THE BASE. THIS CO	EFT BARE, POWDER CO CUSTOMIZATIONS AR MAY BE REQUIRED TO TE/ASPHALT SO THAT T (ESPECIALLY IMPOR AS PER PROJECT EN DE APPROXIMATELY OF RECEIVER DURIN NSTALLED IN DRAINAG TH AS PER PROJECT I OULD ALLOW THE BOL DULD ALLOW THE BOL	DATED, OR HDG (HOT DIPPED E AVAILABLE. D ENSURE THAT COVER PLAT IT MAY BE REMOVED IN FUTU TANT FOR ROAD INSTALLS). IGINEER, THAT OF RECEIVER. G INSTALL. E ROCK. ENGINEER (VARIES AS PER S LARD TO FREEZE IN PLACE A E PAINT TO COME OFF.)	O GALVANIZED). TE DOES NOT URE IF HOLE SOLID CONDITIONS	SCALE: N.T.S.
_		_	BOLLARDS		ISSUE DATE: SEPTEMBER 2018
			CK ASSEMBLY & INST	ALLATION	APPROVED BY: <u>R. KENNY</u>
REV.	REVISION DATE APPROVED				



DRAWING No.

















REV.

REVISION DATE

RAISED CROSSWALK (125mm) - PLAN







SECTION B-B
99 101 102 101 99
Image: Weight of the second
0.15 0.45 0.75 1.05 1.35 1.65 1.95 2.25 2.55 2.85 3.15 3.45 DISTANCE (m)
SECTION A-A
DISTANCE (m) 0 0.150 0.300 0.450 0.600 0.750 0.900 1.050 1.200 1.350 1.500 1.650 1.800
FINISHED HEIGHT (mm) 0 16 31 44 56 67 76 84 90 95 99 101 102
FINISHED HEIGHT (mm) 0 16 31 44 56 67 76 84 90 95 99 101 102 SINUSOIDAL SPEED HUMP DEVELOPMENT
FINISHED HEIGHT (mm) 0 16 31 44 56 67 76 84 90 95 99 101 102 SINUSOIDAL SPEED HUMP DEVELOPMENT NOTES: 1. FOR USE WITH VALLEY DRAINAGE WITH LONGITUDINAL GRADES LESS THAN 1% & NO SEWERS AVAILABLE. 2. SITE ACCESS TO BE CONSIDERED IN LOCATING SPEED HUMP. 3. LONGITUDINAL PROFILE VARIES WITH TYPE OF SPEED HUMP. 4. AU DIMETERDI IN METERDIA UNITYPE OF SPEED HUMP.
FINISHED HEIGHT (mm) 0 16 31 44 56 67 76 84 90 95 99 101 102 SINUSOIDAL SPEED HUMP DEVELOPMENT NOTES: 1. FOR USE WITH VALLEY DRAINAGE WITH LONGITUDINAL GRADES LESS THAN 1% & NO SEWERS AVAILABLE. 2. SITE ACCESS TO BE CONSIDERED IN LOCATING SPEED HUMP. 3. LONGITUDINAL PROFILE VARIES WITH TYPE OF SPEED HUMP. 4. ALL DIMENSIONS IN MILLIMETERS UNLESS STATED OTHERWISE. SCALE: N.T.S









DRAWING No.

C19.4

