



DESIGN SCHEDULE													
FOOTING TYPE	FOOTINGS				WEIGHT (kg)	COLUMN		BEARINGS					
	FOOTING SIZE					COL. SIZE	BRG. PL.		BEARING PAD			SP.	
	"A" (mm)	"B" (mm)	"C" (mm)	"D" (mm)	"J" (mm)	"K" (mm)	"M" (mm)	"N" (mm)	"P" (mm)	"Q" (mm)	"R" (mm)	"U" (mm)	
S1	150	150	700	1400	890	323	9.5	400	19	350	20	350	600
S2	175	175	850	1700	1520	323	9.5	400	19	350	20	450	600
S3	200	200	1000	2000	2400	323	9.5	500	25	450	25	500	650
S4	200	250	1150	2300	3810	406	9.5	550	25	500	25	550	650
S5	225	275	1300	2600	5380	508	9.5	600	32	550	25	600	700

SLOTTED HOLES OR OTHER APPROPRIATE BEARING AND SUBSTRUCTURE DETAILS SHOULD BE CONSIDERED IF SPAN EXCEEDS 15m.

BRIDGE SCHEDULE				
FOOTING	MAX. SPAN FOR LOADING SHOWN			
	L75	L100	L150	L165
S1	12 000			
S2	20 000	14 000	10 000	
S3	38 000	22 000	16 000	12 000
S4	40 000	40 000	26 000	22 000
S5			40 000	38 000

SPAN LENGTHS LIMITED TO 40 METRES.

- NOTES**
- DESIGN: CAN/CSA-S6-88 (MODIFIED).
 - FOR LOADING REFER TO DWG. STD-E-030-01
 - STEEL: CSA G40.21M GRADE 350A (SECTIONS) GRADE 300W - PAINTED (COLUMN BRACING)
 - WELDING: CSA W59 6 F.W. U/N.
 - PIPE: ASTM A252 GRADE 2.
 - CONCRETE: CAN3 A23.1 EXPOSURE CLASS C1, f'c = 35MPa @ 28 DAYS.
 - PRECAST CONCRETE: CSA A23.4-94 BY CSA CERTIFIED PLANT.
 - REINFORCING: CSA G30.18M GRADE 400.
 - COAT STEEL SUBSTRUCTURE WITH ONE COAT BITUMINOUS PAINT PRIOR TO BACKFILLING.
 - BEARING: FOOTINGS ARE DESIGNED FOR 200 KPa ALLOWABLE BEARING PRESSURE. REGULATE UNEVEN SUBGRADE USING GRANULAR MATERIAL COMPACTED TO MINIMUM 98% STANDARD PROCTOR DENSITY OR BED FOOTINGS ON WET CONCRETE. IN SOFT SUBGRADES, USE PILES OR OBTAIN ENGINEERING ADVICE.

SCALE AS SHOWN

Designed: J.H. Date: MAY 1998
 Checked: D.H. Date: MAY 1998
 Drawn: J.E.H. Date: MAY 1998

Rev	Date	DESCRIPTION	Init

REVISIONS

Province of British Columbia
 MINISTRY OF FORESTS
 RESOURCE TENURES and ENGINEERING BRANCH

STANDARD BRIDGE DRAWING

STANDARD SUBSTRUCTURE DETAILS SHEET 1

ORIGINAL SIGNED and SEALED BY: DAVID I. HARVEY
 DESIGN ENGINEER: KEITH HOLMES
 DATE: June/99

APPROVED BY: [Signature]
 HOF ENGINEER: [Signature]
 DATE: June/99

FILE No. STD-E-050-10

ASSUME NOT TO SCALE