

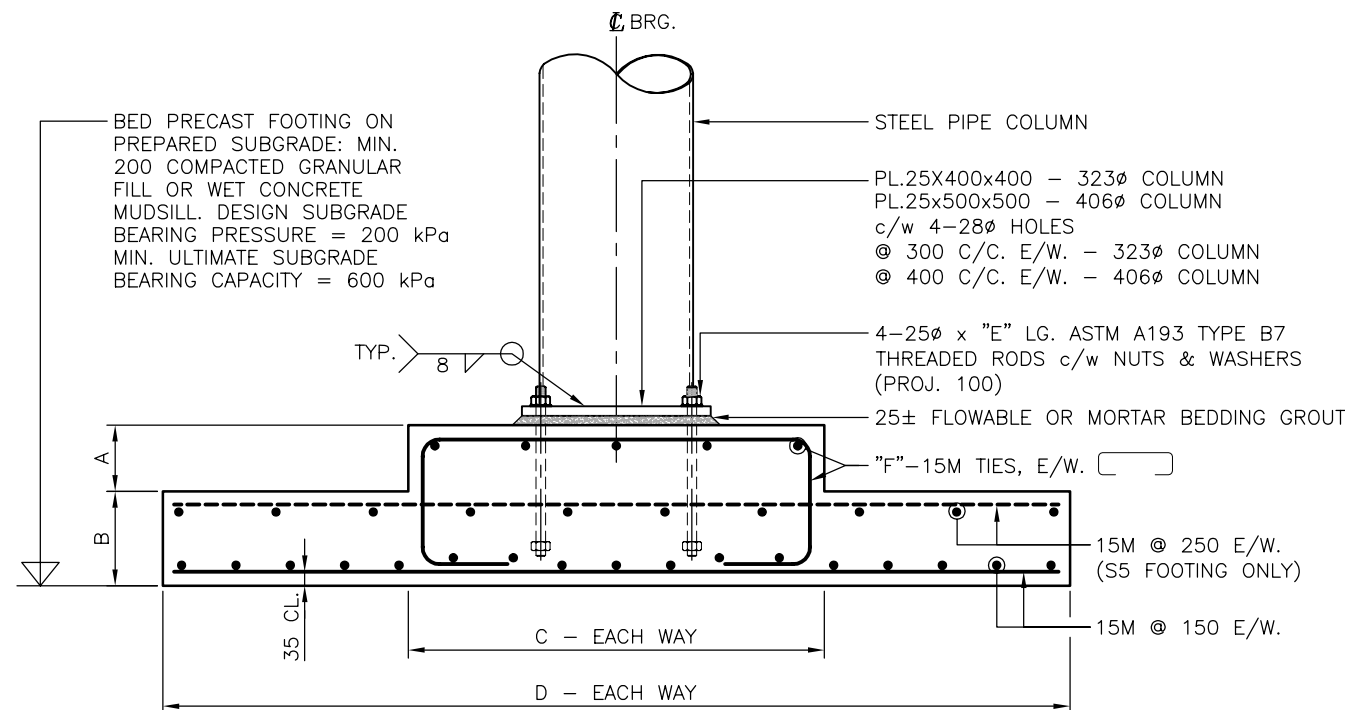
CONCRETE SLAB BRIDGES FOOTING SIZE SELECTION BCL-625				
DECK WIDTH	4276	4876	5486	6096
SPAN	MIN. FOOTING	MIN. FOOTING	MIN. FOOTING	MIN. FOOTING
9000	S1	S1	S1	S1
12000	S1	S1	S1	S1
15000	S1	S1	S2	S2

CONCRETE SLAB BRIDGES FOOTING SIZE SELECTION L150			
DECK WIDTH	4876	5486	6096
SPAN	MIN. FOOTING	MIN. FOOTING	MIN. FOOTING
9000	S2	S2	S2
12000	S2	S3	S3
15000	S3	S3	S3

FOOTING DIMENSIONS FOR CONCRETE SLAB BRIDGES							
FOOTING TYPE	FOOTING SIZE						WEIGHT (kg)
	A	B	C	D	E	F	
S1	175	200	900	1800	425	5	1960
S2	175	250	1100	2100	475	5	3350
S3	175	250	1200	2400	475	6	4310
S4	200	250	1400	2700	500	6	5640

CONCRETE SLAB BRIDGES FOOTING SIZE SELECTION L100				
DECK WIDTH	4276	4876	5486	6096
SPAN	MIN. FOOTING	MIN. FOOTING	MIN. FOOTING	MIN. FOOTING
9000	S1	S1	S1	S1
12000	S1	S1	S2	S2
15000	S2	S2	S2	S3

CONCRETE SLAB BRIDGES FOOTING SIZE SELECTION L165			
DECK WIDTH	4876	5486	6096
SPAN	MIN. FOOTING	MIN. FOOTING	MIN. FOOTING
9000	S2	S2	S3
12000	S3	S3	S3
15000	S3	S4	S4



PRECAST CONCRETE FOOTING DETAIL
1:20

NOTES:

- FOOTINGS HAVE BEEN SIZED BASED ON THE ASSUMPTION THAT THE UNDERLYING FOUNDATION MATERIAL HAS THE ABILITY TO SUPPORT A MINIMUM 200 kPa SERVICEABILITY LIMIT STATES COMBINATION 1 STRESS IN ACCORDANCE WITH SECTION 3 AND 6 OF THE CANADIAN HIGHWAY BRIDGE DESIGN CODE (CAN/CSA-S6). WHERE THE UNDERLYING MATERIAL IS UNABLE TO SUPPORT THIS APPLIED STRESS, THE ENGINEER SHALL DESIGN THE SUBSTRUCTURE COMPONENTS BASED ON THE ASSESSED STRENGTH OF THE FOUNDATION MATERIALS OR DESIGN FOR AN ALTERNATIVE FOUNDATION SYSTEM SUCH AS DRIVEN PILES.
- FOOTING DESIGNED BASED ON THE MAXIMUM SLAB DEPTH SHOWN ON DWG. STD-EC-050-20. IF THE SLAB DEPTH EXCEEDS THE SPECIFIED LIMITS, DWG'S STD-EC-050-18 THROUGH 21 ARE NOT APPLICABLE AND AN ENGINEER SHOULD COMPLETE A PROJECT SPECIFIC SUBSTRUCTURE DESIGN.

ASSUME NOT TO SCALE
ORIGINAL SIGNED AND SEALED

DESIGN ENGINEER	0 2 4 6 8 10 meters	Ministry of Forests, Lands and Natural Resource Operations ENGINEERING BRANCH																				
	SCALE AS SHOWN BAR LENGTH IS 40mm ON ORIGINAL.																					
Checked <u>HELEN DU</u> Date <u>14/04/01</u>	Drawn <u>ERFAN FARJOO</u> Date <u>14/04/01</u>	STANDARD BRIDGE DRAWING DRAWING TITLE: SUBSTRUCTURE DETAILS FOR CONCRETE SLAB BRIDGES - SHEET 4																				
<table border="1"> <thead> <tr> <th>Rev</th> <th>Date</th> <th>DESCRIPTION</th> <th>Init</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	Rev		Date	DESCRIPTION	Init																	DESIGNED BY: HELEN DU, P.ENG.
Rev	Date	DESCRIPTION	Init																			
PROFESSIONAL SEAL	REVISIONS	COORDINATING REGISTERED PROFESSIONAL:	FLNR ENGINEER:																			
		FILE No.	DRAWING No. STD-EC-050-21																			