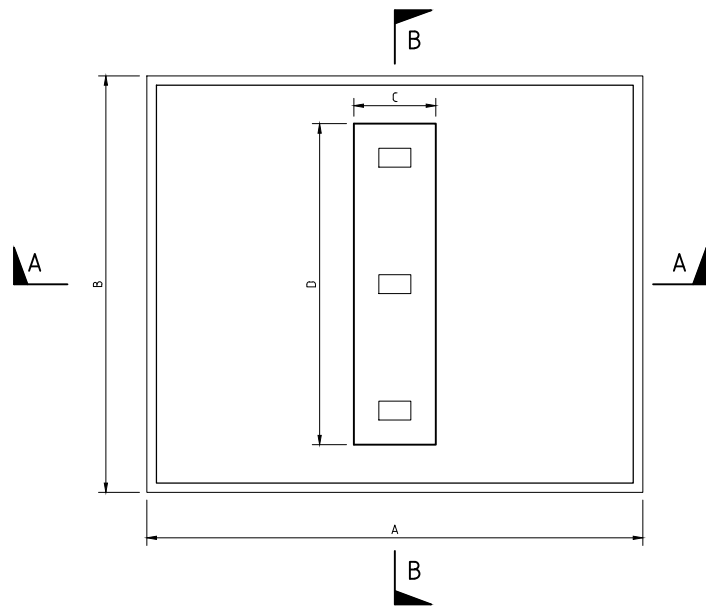
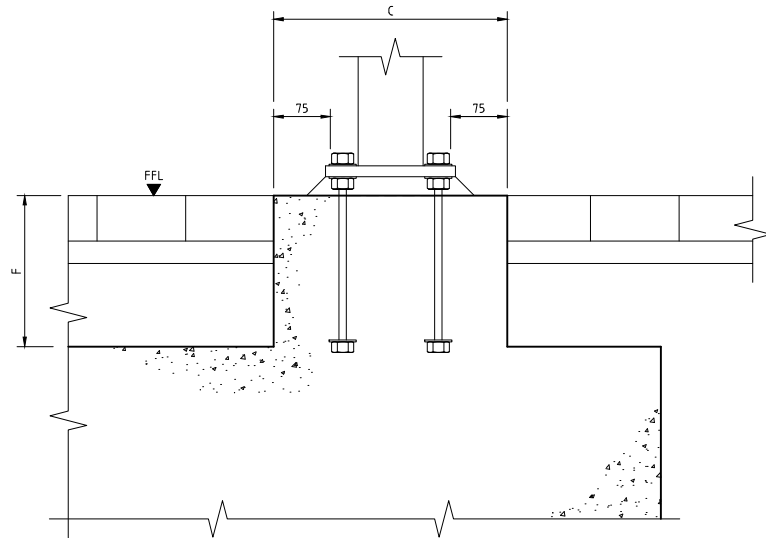
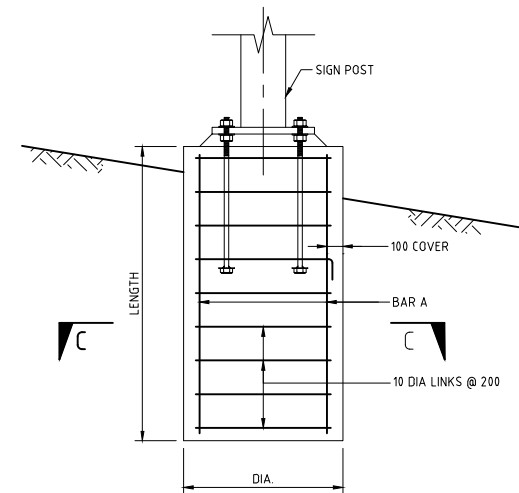




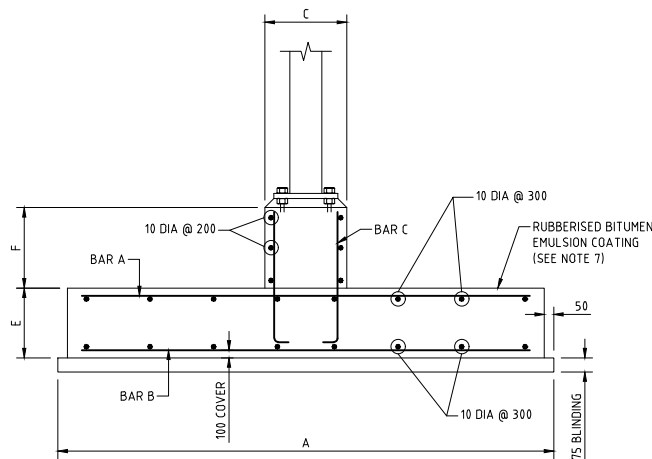
SPREAD FOOTING FOUNDATION



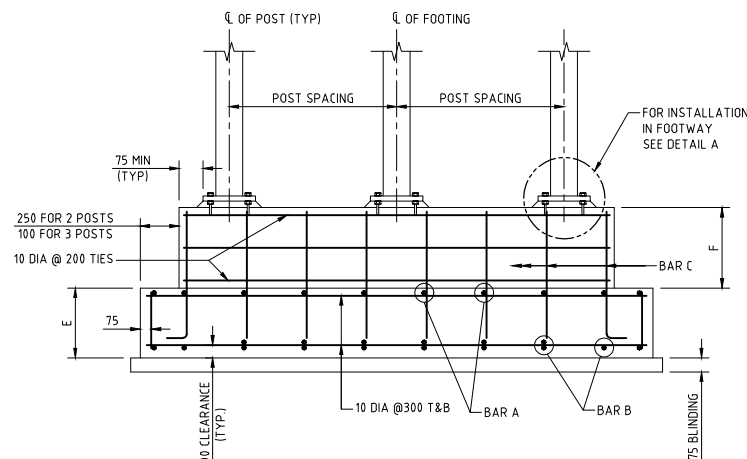
DETAIL A



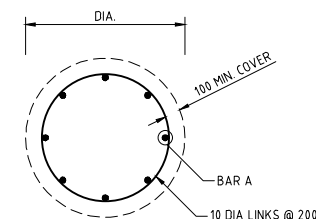
CIDH FOUNDATION



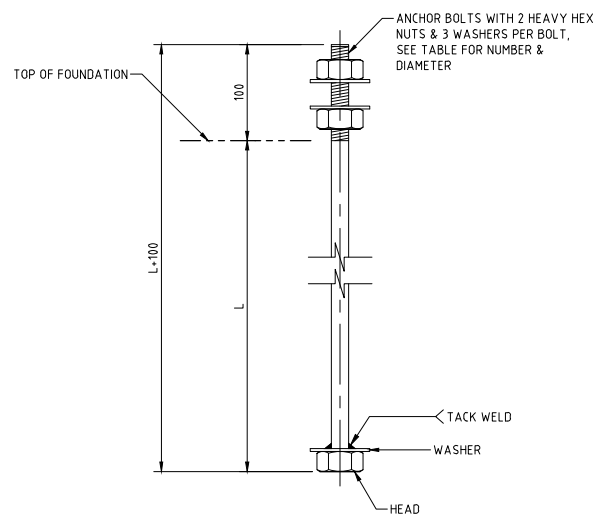
SECTION A-A



SECTION B-B



SECTION C-C



ANCHOR BOLT DETAIL

NUMBER & SIZE OF POST	SPREAD FOOTING FOUNDATION DATA (REFER TO NOTE 4)								
	SPREAD FOOTING						REINF. STEEL BAR MARK		
	A	Bx	C	Dx	E	F	A	B	C
2-PI	1500	1850	500	1350	350	500	10φ @ 300	10φ @ 300	10φ @ 300
2-PII	2600	1980	500	1480	400	500	10φ @ 300	10φ @ 300	10φ @ 300
2-PIII	3000	2500	500	2000	400	500	10φ @ 300	10φ @ 300	12φ @ 300
2-PIV	3500	3500	550	3000	450	600	10φ @ 300	10φ @ 250	12φ @ 250
2-PV	4200	4050	600	3550	500	700	10φ @ 200	12φ @ 200	12φ @ 200
2-PVI	5200	4200	650	3700	500	1000	16φ @ 250	16φ @ 250	16φ @ 250
2-PVII	6400	4200	750	3700	600	1300	16φ @ 200	16φ @ 200	16φ @ 100
3-PI	1000	4800	500	4600	350	800	10φ @ 300	10φ @ 300	10φ @ 300
3-PII	2000	4900	500	4700	400	850	10φ @ 300	10φ @ 300	10φ @ 300
3-PIII	2500	4900	500	4700	400	900	10φ @ 300	10φ @ 300	10φ @ 300
3-PIV	3200	5700	550	5500	450	1000	10φ @ 300	12φ @ 300	12φ @ 300
3-PV	4400	5800	600	5600	500	1000	10φ @ 200	12φ @ 200	12φ @ 200
3-PVI	5200	5900	650	5700	500	1500	16φ @ 150	16φ @ 200	16φ @ 200
3-PVII	6200	5900	750	5700	600	1500	16φ @ 150	16φ @ 150	16φ @ 150

× DIMENSIONS INDICATED ARE MINIMUM AND SHALL BE INCREASED TO ACCOMMODATE WIDER POST SPACING.

FOUNDATION CIDH DATA

POST TYPE	DIA.	LENGTH	BAR A
PI	500	1000	6 φ 14
PII	500	1300	8 φ 14
PIII	600	1500	8 φ 16
PIV	650	2000	8 φ 16
PV	750	2400	10 φ 18
PVI	900	2800	12 φ 20
PVII	900	3400	12 φ 20

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CURRENT Q.C.S. UNLESS OTHERWISE AGREED WITH THE ENGINEER.
- DIRECTIONAL SIGNS SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITIONS OF BS 873 AND THE QATAR TRAFFIC CONTROL MANUAL.
- STANDARD DETAILS SHOW THE MINIMUM FOUNDATION SIZE AND DEPTH IN ACCORDANCE WITH THE QATAR TRAFFIC CONTROL MANUAL. FOR EACH SIGN THE CONTRACTOR SHALL PREPARE DETAILED CALCULATIONS AND WORKSHOP DRAWINGS TO DEMONSTRATE THE SUITABILITY OF THE PROPOSED FOUNDATION FOR LOCAL CONDITIONS.
- BOLT TEMPLATE SHALL BE PROVIDED DURING INSTALLATION OF ANCHOR BOLTS.
- THE SIGN SUPPORT SYSTEM SHALL BE DESIGNED TO BE PASSIVELY SAFE AND TO CONFORM WITH THE REQUIREMENTS OF BS EN 12767.
- ALL BURIED PORTIONS OF THE FOOTING SHALL BE COATED WITH RUBBERIZED BITUMEN EMULSION UP TO A LEVEL 50mm BELOW FINISHED GROUND.
- ALL DIRECTIONAL SIGNS TO BE INSTALLED BY ASHGHAL APPROVED CONTRACTORS.

CONCRETE:

- ALL BLINDING CONCRETE SHALL BE GRADE SRC 30.
- ALL STRUCTURAL CONCRETE SHALL BE MINIMUM GRADE SRC 40.

REINFORCEMENT:

- ALL REINFORCEMENT SHALL BE TYPE 2 DEFORMED MINIMUM GRADE B 500 CONFORMING TO BS 4449.
- MINIMUM LAP LENGTH TO BE 55 x DIA OF SMALLER LAPPED BAR.
- MINIMUM COVER TO REINFORCEMENT TO BE 75mm UNLESS OTHERWISE NOTED.

LEGEND:

CIDH	CAST IN DRILLED HOLE
FFL	FINISHED FOOTWAY LEVEL
SRC	SULFATE RESISTANT CEMENT

Rev.	Date	Revision Details	Appd.
2	17MAR19	ISSUED FOR USE	
1	20MAR16	ISSUED FOR USE	
0	15SEP13	ISSUED FOR USE	

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PA
PROJECTS AFFAIRS

QCS Section:
Section 6 - Road Works
Part 13 - Traffic Signs, Markings and Studs

Drawing Title:
ROUTE CONFIRMATION AND GENERAL INFORMATION SIGN TYPICAL FOUNDATION DETAILS

Approved:	Sheet No: 1 OF 1
Date: MARCH 2019	Scale: N.T.S.
Drawing Number: SD 6-13-115	Revision: 2