

PROVIDE NUTS ABOVE AND BELOW ANCHOR PLATES AT EACH ANCHOR BOLT

VMS SUPPORT STRUCTURE BORED PILE DETAIL

SCALE 1:50

SECTION A

SCALE 1:50

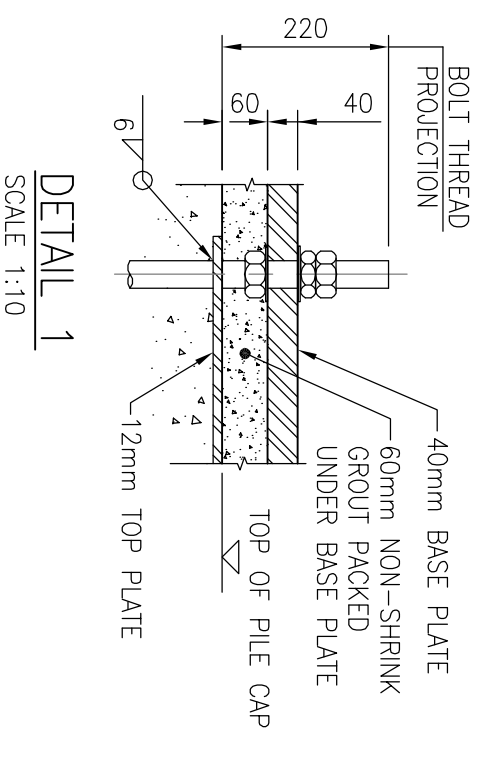
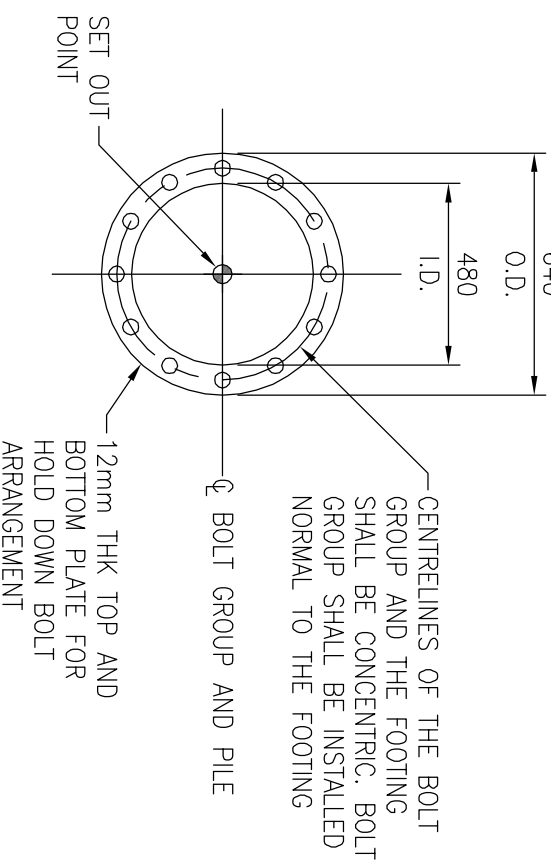
HOLDING DOWN BOLT DETAIL

SCALE 1:20

NOTES

- BORED PILES SHALL BE INSTALLED AT THE LOCATIONS SHOWN IN THE RELEVANT PROJECT DRAWINGS. THE FOUNDING MATERIAL SHALL BE ASSESSED AND CONFIRMED ON SITE BY AN EXPERIENCED GEOTECHNICAL ENGINEER (RPEQ) APPOINTED BY THE CONTRACTOR.
- THE EMBEDMENT LENGTHS 'L' SHOWN IN THE TABLE ARE BASED ON THE ASSUMPTION THAT THERE ARE NO TRENCHES OR PITS ADJACENT TO THE BORED PILE. IF THERE ARE SUCH EXCAVATIONS WITHIN A RADIUS OF 3m FROM THE CENTRE OF THE PILE, THE EMBEDMENT LENGTHS SHOWN IN THE TABLE SHALL BE INCREASED BY AN AMOUNT EQUAL TO THE DEPTH OF THE EXCAVATION UNLESS ADVISED OTHERWISE BY THE DESIGNER.
- IF PERMANENT LINERS ARE USED TO INSTALL THE BORED PILE, THE EMBEDMENT DEPTH SHALL BE MEASURED FROM THE BOTTOM OF THE STEEL LINER.
- CONTRACTOR IS REQUIRED TO CARRY OUT A BORE HOLE INVESTIGATION AT EACH SITE TO ASSES PROPERTIES OF THE FOUNDING MATERIALS. THE DEPTH OF THE BORE HOLE SHALL BE AT LEAST EQUAL TO THE EMBEDMENT DEPTH OF THE PILE.
- THE DESIGN PARAMETERS SHOWN ARE FOR COHESIVE TYPE SOILS ONLY. IF COHESIONLESS SOIL OR SOILS HAVING UNDRAINED COHESION VALUES LESS THAN 50kPa ARE ENCOUNTERED AT SITE, THE CONTRACTOR SHALL NOTIFY AND SEEK ADVICE FROM THE DESIGNER BEFORE PROCEEDING WITH WORKS. THE NOTIFICATION SHALL ACCOMPANY BORE HOLE LOGS OBTAINED FOR THE RELEVANT SITE.

GENERAL CLASSIFICATION	MATERIAL TYPE	UNDRAINED COHESION Cu (kPa) RANGE $\phi_g=0.45$	MINIMUM EMBEDMENT 'L' (mm)
POOR	FIRM TO STIFF CLAY	50 - 100	9500
MEDIUM	STIFF TO VERY STIFF/HARD CLAY	100 - 200	5500
GOOD	VERY STIFF / HARD CLAY OR VERY LOW / LOW STRENGTH ROCK	> 200	4500



STRUCTURAL DESIGN CERTIFICATION

DESIGN

DESIGN CHECK

AUTHORISED FOR ISSUE

DRAWING AUTHORISED FOR PUBLICATION

ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE
A	ORIGINAL ISSUE	Oct '13	Oct '13	Oct '13

PROF ASSET ENGINEERING MANAGER
STRATEGIC ASSET MANAGEMENT
DESIGN APPROVED
Eric Bradley Signature on Original
Dec 2013
Intelligent Transport Systems Manager

DESIGN	D.R.	DATE
DRAWN	D.M.	Oct '13
CHECKED	L.M.	Oct '13

DRAWING FILENAME: \BSD-431-SHEET 5 (A).dwg
ASSOCIATED PLANS: BSD-431 SHEETS 1, 2, 3 & 4



BRISBANE CITY COUNCIL STANDARD DRAWING

VMS SUPPORT STRUCTURE
TYPE BCC-VC SHEET 5 OF 5
FOOTING DETAILS

SCALE: AS SHOWN

DWG NO: BSD-4311

ORIGINAL SIZE: A3

REVISION: A