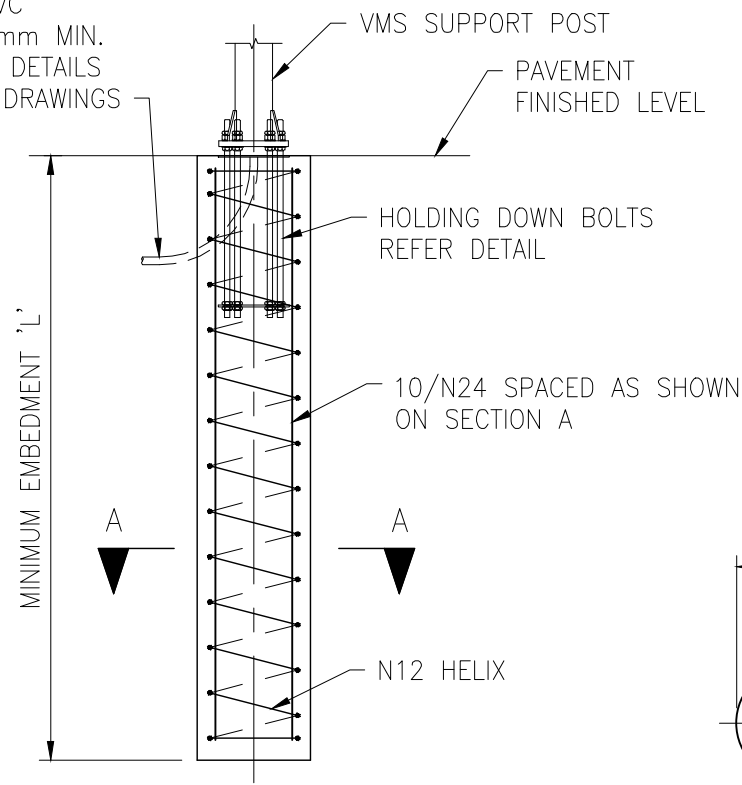
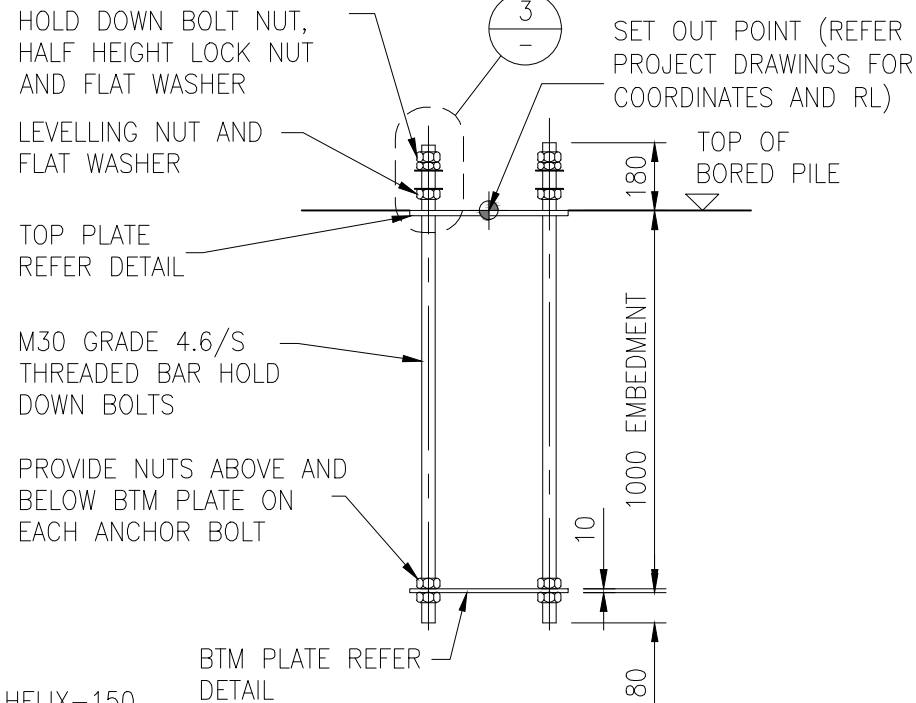


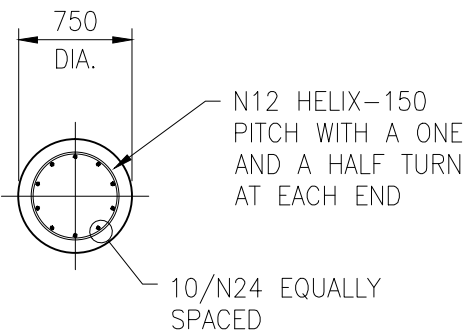
50 DIA. ORANGE PVC CONDUIT WITH 600mm MIN. BEND RADIUS. FOR DETAILS REFER ELECTRICAL DRAWINGS



VMS SUPPORT STRUCTURE BORED PILE DETAIL
SCALE 1:50

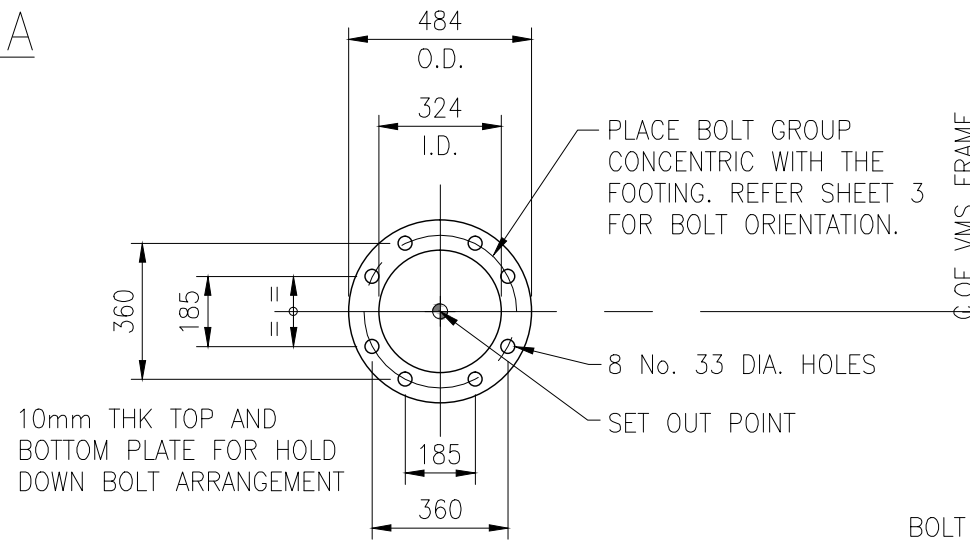


HOLDING DOWN BOLT DETAIL
SCALE 1:20



SECTION A
SCALE 1:50

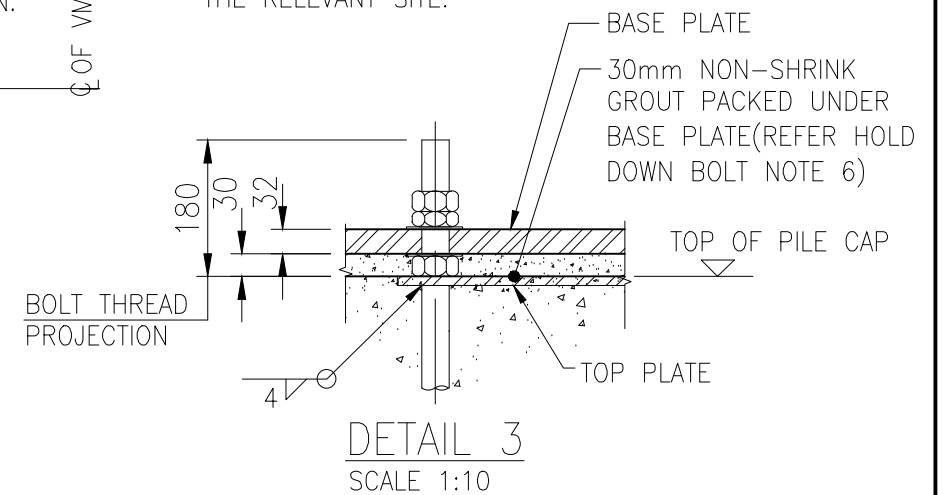
FOUNDING MATERIAL			MINIMUM EMBEDMENT 'L' (mm)
GENERAL CLASSIFICATION	MATERIAL TYPE	UNDRAINED COHESION Cu (kPa) RANGE $\phi_g=0.45$	
POOR	FIRM TO STIFF CLAY	50 - 100	4500
MEDIUM	STIFF TO VERY STIFF/HARD CLAY	100 - 200	3500
GOOD	VERY STIFF / HARD CLAY OR VERY LOW / LOW STRENGTH ROCK	> 200	3000



H.D. BOLT TOP AND BOTTOM CAST IN PLATE DETAIL
SCALE 1:20

NOTES

1. BORED PILE SHALL BE INSTALLED AT THE LOCATION SHOWN ON THE RELEVANT PROJECT DRAWINGS. THE FOUNDING MATERIAL SHALL BE ASSESSED AND CONFIRMED ON SITE BY AN EXPERIENCED GEOTECHNICAL ENGINEER (RPEQ) APPOINTED BY THE CONTRACTOR.
2. 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.
3. IF PERMANENT LINERS ARE USED TO INSTALL THE BORED PILE, THE EMBEDMENT DEPTH SHALL BE MEASURED FROM THE BOTTOM OF THE STEEL LINER.
4. CONTRACTOR IS REQUIRED TO CARRY OUT A BORE HOLE INVESTIGATION AT EACH SITE TO ASSESS PROPERTIES OF THE FOUNDING MATERIALS. THE DEPTH OF THE BORE HOLE SHALL BE AT LEAST EQUAL TO THE EMBEDMENT DEPTH OF THE PILE.
5. 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.



DETAIL 3
SCALE 1:10

STRUCTURAL DESIGN CERTIFICATION		
DESIGN <small>Dilan Rowel RPEQ:8455 2013.10.29 16:25:02 +10'00'</small>	DESIGN CHECK <small>santo.potane@brisbane.qld.gov.au 2013.10.29 16:42:14 +10'00'</small>	AUTHORISED FOR ISSUE <small>bala.balakumar@brisbane.qld.gov.au 2013.10.30 08:46:44 +10'00'</small>
BRISBANE CITY COUNCIL STANDARD DRAWING		
VMS SUPPORT STRUCTURE TYPE BCCVA - FOOTING DETAILS		SCALE: NOT TO SCALE
SHEET 5 OF 5		DWG No. BSD-4312
ORIGINAL SIZE: A3	REVISION: C	

ISSUE	AMENDMENT	DRAWN DATE	CHK'D DATE	APPR'D DATE
C	Drawing Title Amended	JAN '16	JUL '16	JUL '16
B	NOTES AMENDED	SEPT '14	SEPT '14	SEPT '14
A	ORIGINAL ISSUE	Oct '13	Oct '13	Oct '13

DRAWING AUTHORISED FOR PUBLICATION
Signature on Original
Inga Condric Dated 15/04/14

FOR ASSET ENGINEERING MANAGER
STRATEGIC ASSET MANAGEMENT

DESIGN APPROVED
Eric Bradley Signature on Original
Dec 2013

Intelligent Transport Systems Manager

DESIGN	D.R.	DATE	Oct '13
DRAWN	D.M.	DATE	Oct '13
CHECKED	S.P.	DATE	Oct '13
DRAWING FILENAME	BSD-4312 (C) VMS support structure Type BCCVA - Footing details - Sheet 5 of 5.dwg		
ASSOCIATED PLANS	BSD-4311 SHEETS 1, 2, 3 & 4		

