

1. ROCK LEVELS WHICH HAVE BEEN PROVIDED FOR AN INDICATED AND EXTRAPOLATED FROM THE GEOLOGICAL REPORT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A DETAILED DESCRIPTION OF ANTICIPATED STRATA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL SHORING WALLS INSTALLED DO NOT DAMAGE ADJACENT STRUCTURES OR SERVICES.
3. FOUNDATION AND EMENT MONITORING PLAN MUST BE PREPARED AND MONITORING RESULTS ARE REPORTED REGULARLY TO THE MANAGING CONTRACTOR.
4. WHERE MONITORING RESULTS ARE BEYOND ACCEPTABLE CRITERIA, AS OUTLINED WITHIN THE FOUNDATION AND EMENT MONITORING PLAN, THE CONTRACTOR SHALL IMMEDIATELY:
 - a. NOTIFY THE STRUCTURAL ENGINEER OF ANY REINFORCED PIPE IS DAMAGED IN ANY SERVICE PENETRATIONS, UNLESS DIRECTED BY THE CONTRACTOR.
 - b. THE PRESENCE OF UNCONTROLLED FILL INFERIOR SOILS MAY CONTAIN ELEMENTS WHICH ARE TO BE REMOVED AND REPLACED WITH COMPACTED FILL. INSTALLATION CAN PROCEED.
 - c. THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS OF THE SHORING WALLS FOR THE ANCHOR CONTRACTOR USE IN PREPARING THE ANCHOR SETOUT SHOP DRAWINGS, THE AS-BUILT DRAWINGS SHALL BE SUBMITTED WITHIN 14 DAYS OF THE COMPLETION OF THE SHORING WALLS. THE AS-BUILT INFORMATION AS DESCRIBED IN THE SPECIFICATION. ALL RECORDS ARE TO BE SUBMITTED BEFORE EXCAVATION PROCEEDS.
 - d. AN ENCOURAGEMENT TO INVESTIGATING FOOTING TEST PITS IS TO BE CARRIED OUT PRIOR TO SHORING INSTALLATION.
5. THE CONTRACTOR IS TO CONFIRM CLEARANCE AND TOLERANCE REQUIREMENTS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACTUAL ROCK TYPES AND DISPOSITIONS TO JUDGE FACE OF EXCAVATION.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT EXISTING SAGGING ACROSS THE SITE DOES NOT OVERLAP WITH THE EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE WALLS AND THE NEW STRUCTURE BEING CONSTRUCTED.

LOCATION	DESIGN VALUE	
	LL	SIDL
TYPICAL SURCHARGE FUTURE ROADWAY	15 20	- -

LOCATION	Pc
PILES	N40
SHOTCRETE	N32
CAPPING BEAM	N40
CEP LID	N50
EGRESS TUNNEL	N50

LOCATION	COVER
PILES	75mm
SHOTCRETE	30mm
CAPPING BEAM	40mm

SUPERSTRUCTURE FOUNDATIONS PILES - SCHEDULE OF RATES				
DIA (mm)	CONCRETE STRENGTH (F'c)	VERT REIF.	HELIX TIES	COMMENTS
900	50	10N20	N12-400	
1200	50	18N20	N12-400	
900	50	16N32	N12-400	TENSION PILE
1200	50	23N36	N12-400	TENSION PILE



TYPE	WORKING TEMP ANCHOR LOAD AT 30° (kN) U.N.O
TA1	250
TA2	375
TA3	500
TA4	625

WHALER SCHEDULE	
TYPE	SIZE
W1	2 / 230 PFC
W2	610UB 125

NOTE:
PERMANENT WORKS BUILDING-STRUCTURE SHOWN
ARE INDICATIVE SUBJECT TO DESIGN DEVELOPMENT.



STRUCTURAL

<div><div><div>Structural, Civil & Construction Engineering Consultant</div><div>Robert Bird Group</div><div>STONEY OFFICE: Robert Bird Group Pty Ltd PO Box A2109 Sydney South, NSW 1235 Level 11 151 Castlereagh St Sydney NSW 2000 Ph: (02) 8546 3200 ACN 010 580 248</div><div>Web Site: www.robertbird.com</div></div><div></div><div></div></div>	<div><div><div>Health Infrastructure</div><div>Health Western Sydney Local Health District</div></div></div>	BLACKTOWN AND MOUNT DRIUITT HOSPITALS REDEVELOPMENT - STAGE 2	<table><tr><td>TITLE</td><td>DATE DRAWN</td><td>23 12 2015</td></tr><tr><td>BLACKTOWN STAGE 2 - PACKAGE 2 EARLY WORKS (SERVICE AND ROAD DIVERSIONS)</td><td>DESIGNER</td><td>D.GOGGIN</td></tr><tr><td>SHORING AND BULK EXCAVATION PLAN</td><td>DESIGN CHECKER</td><td>A.CHAN</td></tr><tr><td>SHEET 1</td><td>DRAWN</td><td>A.LISTER</td></tr><tr><td></td><td>PRINCIPAL</td><td>S.MORLEY</td></tr></table>	TITLE	DATE DRAWN	23 12 2015	BLACKTOWN STAGE 2 - PACKAGE 2 EARLY WORKS (SERVICE AND ROAD DIVERSIONS)	DESIGNER	D.GOGGIN	SHORING AND BULK EXCAVATION PLAN	DESIGN CHECKER	A.CHAN	SHEET 1	DRAWN	A.LISTER		PRINCIPAL	S.MORLEY
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