# SITE NOTES:

- THE CONTRACTOR SHALL ENGAGE A GEOTECHNICAL ENGINEER PROGRESSIVELY DURING CONSTRUCTION TO INSPECT AND CERTIFY THAT THE FOOTINGS ARE FOUNDED INTO THE NOMINATED FOUNDING MATERIAL AND ALLOWABLE BEARING CAPACITY HAS BEEN ACHIEVED.
- GOOD SITE DRAINAGE IS RECOMMENDED TO AVOID ABNORMAL MOISTURE CONDITIONS, REFER TO CIVIL/HYDRAULICS CONSULTANT FOR ALL DRAINAGE/PLUMBING ARTICULATION REQUIREMENTS TO SITE CLASS NOMINATED BY GEOTECH CONSULTANT.
- THE GROUND IN THE IMMEDIATE VICINITY OF THE PERIMETER FOOTING, INCLUDING THE GROUND UPHILL OF THE SLAB ON CUT & FILL SITES, SHALL BE GRADED TO FALL 50mm MINIMUM AWAY FROM THE FOOTING OVER A DISTANCE OF 1m.
- FUTURE SHRUBS AND TREES SHOULD BE PLANTED AT A DISTANCE AT LEAST EQUIVALENT TO THEIR TWICE MATURE HEIGHT AWAY FROM THE BUILDING. ROOT BARRIERS SHOULD BE INSTALLED IF ANY SHRUBS OR TREES ARE CLOSE TO THE BUILDING.

#### SERVICES AND FOOTINGS:

- CONTRACTOR IS TO CONFIRM ACTUAL SERVICE LOCATIONS PRIOR TO COMMENCING CONSTRUCTION. THE DESIGN ENGINEER IS TO BE ADVISED IF ANY DESIGN CHANGES ARE REQUIRED.
- THE BUILDER IS TO REMOVE ALL EXISTING REDUNDANT SERVICES, ON APPROVAL ANY REDUNDANT FOOTINGS AND SLABS IN THE VICINITY OF THE NEW BUILDING WORKS.
- THE BUILDER IS TO EMPLOY THE SERVICES OF A SERVICE LOCATION SPECIALIST AS PART OF THEIR CONTRACT. ANY SERVICES THAT ARE CUT (BOTH ELECTRICAL OR PLUMBING) BY THE CONTRACTOR OR HIS REPRESENTATIVE ARE TO BE REPAIRED BY THE CONTRACTOR AT NO EXTRA COST TO THE CONTRACT.
- ALL PLUMBING STRAPPING AND ARTICULATION IS TO BE CARRIED OUT TO MINIMUM REQUIREMENTS OF LOCAL AUTHORITIES AND THAT OF THE Q.B.C.C. SUBSIDENCE POLICY. DEQ HAS NOT BEEN COMMISSIONED TO PROVIDE PLUMBING ARTICULATION SPECIFICATIONS, REFER TO HYDRAULIC ENGINEER FOR ALL PLUMBING ARTICULATION SPECIFICATIONS AND DETAILS.
- NO SERVICE PIPES ARE PERMITTED IN PIER CAPS. SERVICE PIPES TO BE WITHIN AVAILABLE SLAB DEPTH ONLY OVER PIER CAPS

#### BORED PIER NOTES

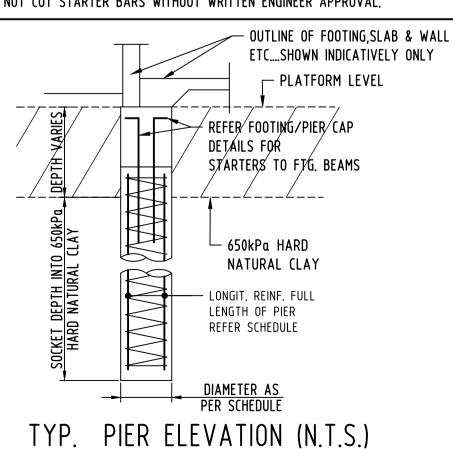
- BORED PIER BASES SHALL BE CLEAN OF LOOSE AND WATER AFFECTED MATERIAL. BORED PIER BASES SHALL BE CLEANED BY CLEANOUT BUCKET. THE PRACTICE OF ADDING WATER AND SPINNING THE AUGER SHALL NOT BE PERMITTED.
- FOUND ALL BORED PIERS INTO HARD NATURAL CLAY HAVING A MINIMUM ALLOWABLE BEARING CAPACITY OF 650 kPa. SOCKET DEPTH AS NOMINATED IN PIER SCHEDULE.

## BORED PIER SCHEDULE

• TO BE READ IN CONJUNCTION WITH BORED PIERS DETAILS ON SO3

MARK	SYMBOL	DIAMETER Ø (mm)	PIER REINFORCEMENT	MINIMUM SOCKET DEPTH (mm)
BP1		450 <b>ø</b>	4/N12 VERT. R6 HELIX-200 PITCH	2500 MIN INTO HARD NATURAL CLAY
BP2		600 <b>ø</b>	6/N16 VERT. R6 HELIX-200 PITCH	2500 MIN INTO HARD NATURAL CLAY
BP3		900φ	10/N20 VERT. R10 HELIX-200 PITCH	2500 MIN INTO HARD NATURAL CLAY
BP4		1200 <b>ø</b>	16/N20 VERT. R10 HELIX-200 PITCH	2500 MIN INTO HARD NATURAL CLAY
BP5	+ + + + + + + + + + + + + + + + + + +	1200¢	16/N20 VERT. R10 HELIX-200 PITCH	3500 MIN INTO HARD NATURAL CLAY
BP6		1500 <i>¢</i>	18/N24 VERT. N12 HELIX-200 PITCH	2500 MIN INTO HARD NATURAL CLAY
BP7		1500 <i>¢</i>	18/N24 VERT. N12 HELIX-200 PITCH	3500 MIN INTO HARD NATURAL CLAY
BP8		1500 <i>¢</i>	18/N24 VERT. N12 HELIX-200 PITCH	4500 MIN INTO HARD NATURAL CLAY

WHERE STARTER BARS CLASH WITH FOOTING REINFORCEMENT OR CAGES DO NOT CUT STARTER BARS WITHOUT WRITTEN ENGINEER APPROVAL



## FOOTINGS AND SLABS

TYPICAL FOOTING FOUNDING:

FOOTING TO BE FOUNDED INTO 650 kPa HARD NATURAL CLAY

VIA BORED PIERS WHERE NECESSARY. TYPICAL SLAB FOUNDING: SLABS TO BE FOUNDED INTO CONTROLLED FILL

## FOOTINGS NOTES:

- THE BUILDER IS TO ALLOW TO SUPPORT THE SIDES OF THE FOOTING TRENCHES TO PREVENT COLLAPSE DURING CONSTRUCTION.
- FOOTINGS SHOULD BE PLACED WITH MINIMAL DELAY AFTER EXCAVATION TO AVOID DESICCATION OR WETTING OF THE FOUNDING SOILS. IF FOOTINGS CANNOT BE POURED ON THE SAME DAY AS EXCAVATION, A BLINDING LAYER OF 75mm THICKNESS (BELOW UNDERSIDE OF FOOTING) IS TO BE POURED. BORED PIERS SHOULD BE POURED IMMEDIATELY.

## PIER CAP SCHEDULE

- PC1: 600 DEEP x 800 SQ. PIER CAP, N20 'U' BARS AT 200 MAX CENTRES TOP AND BOTTOM, EACH WAY.
- PC2: 1000 DEEP x 1000 SQ. PIER CAP, N24 'U' BARS AT 200 MAX CENTRES TOP AND BOTTOM, EACH WAY.
- PC3: **1000 DEEP x 1400 SQ.** PIER CAP, N24 'U' BARS AT 200 MAX CENTRES TOP AND BOTTOM, EACH WAY.
- PC4: 1000 DEEP x 1600 SQ. PIER CAP. N24 'U' BARS AT
- 200 MAX CENTRES TOP AND BOTTOM, EACH WAY. PC5: 1000 DEEP x 1200w x 3500l PIER CAP, 12-N24 LONGITUDINALLY TOP AND BOTTOM, N20 'U' BARS AT
- 200 MAX CENTRES TOP AND BOTTOM LIGS. PC6: **1200 DEEP x 1400w x 4500l** PIER CAP, 14-N24 LONGITUDINALLY TOP AND BOTTOM, N20 'U' BARS AT 200 MAX CENTRES TOP AND BOTTOM LIGS.
- PROVIDE STARTER BARS INTO REINFORCED CONCRETE COLUMNS OVER, REFER TO COLUMN/WALL DETAILS
- BUILDER TO ALLOW TO BUILD PIER CAP CAGES IN SITU.

#### FOOTING SCHEDULE

- SF1: 600 DEEP x 450 WIDE STRIP FOOTING
- 3-N16 TOP AND BOTTOM, R10 LIGS AT 400 SF2: 600 DEEP x 600 WIDE STRIP FOOTING
- 4-N16 TOP AND BOTTOM, R10 LIGS AT 400 SF3: 1000 DEEP x 1200 WIDE STRIP FOOTING 10-N24 TOP AND BOTTOM, N20 U BARS TOP AND BOTTOM AT 200 MAX CENTRES
- 600 DEEP x 350 WIDE INTERNAL BEAM 3-N16 TOP AND BOTTOM, R10 LIGS AT 400
- 600 DEEP x 450 WIDE STRIP FOOTING 4-N16 TOP AND BOTTOM, R10 LIGS AT 400
- SF/IB/PIER CAPS TIED TOGETHER TO TYPICAL FOOTING

# SLAB NOTES:

JUNCTION DETAILS

- SERVICE PIPES TO PENETRATE SLAB VERTICALLY ONLY. PIPES ARE NOT TO RUN HORIZONTALLY IN SLAB WITHOUT WRITTEN ENGINEER APPROVAL.
- REFLECT ALL SLAB JOINTS THROUGH SURFACE FINISHES AND WALLS OVER SLAB.
- REFER TO ARCHITECTS DRAWINGS FOR LOCATIONS AND DEPTHS OF SETDOWNS STEPS AND FALLS IN FLOOR SLAB.
- REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE SURFACE FINISH AND COLOURING REQUIREMENTS ON SLABS ON GROUND AND EXPOSED SECTIONS OF CONCRETE.
- PROVIDE 200 MICRON VISQUEEN OR EQUIVALENT UNDER ALL SLABS. LAP AND TAPE ALL JOINTS. VISQUEEN OVER 50mm BEDDING SAND TYPICAL
- THE SLAB HAS NOT BEEN DESIGNED FOR A "POLISHED" OR HONED CONCRETE FINISH, CONTACT ENGINEER IMMEDIATELY FOR RE-DESIGN IF POLISHED CONCRETE FINISH IS TO BE USED.

## **SLAB SCHEDULE:**

#### SLABS:

DENOTES 120thk SLAB ON GROUND SL92 FABRIC IN TOP. 45 COVER INTERNAL

N40 CONCRETE

- DENOTES 3-N12 x 2000 LONG TIED TO UNDERSIDE OF SLAB REINF. (TYP. ALL RE-ENTRANT & RECESS CORNERS)
- DENOTES STEP IN SLAB, REFER TO ARCH, TYP.
- DENOTES GRATED DRAIN TO ARCHITECTS DETAILS
- DENOTES 800 LONG x 500 WIDE ENGAGED BLOCK PIER TO UNDERSIDE OF FOOTING OVER (290+190 BLOCK), REFER TO TYPICAL DETAILS.

