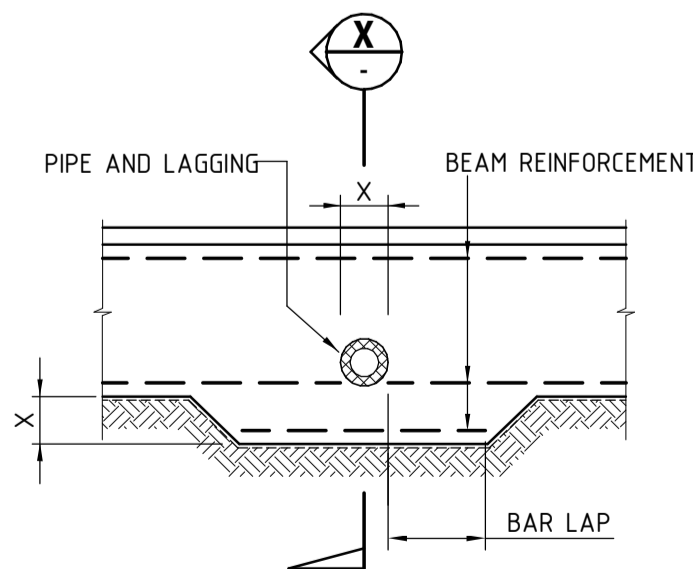


**PART BASEMENT LAYOUT PLAN**  
SCALE 1:100

**NOTES:**  
1. PILE DESIGN BASE ON GEOTECHNICAL REPORT BY WGA (WGA181548). REFER TO THIS REPORT FOR MORE INFORMATION.  
2. ALL PILES TO BE CFA PILES AS RECOMMENDED IN THE GEOTECHNICAL REPORT DUE TO THE PRESENCE OF HIGH WATER TABLE.



**BEAM PENETRATION DETAILS**

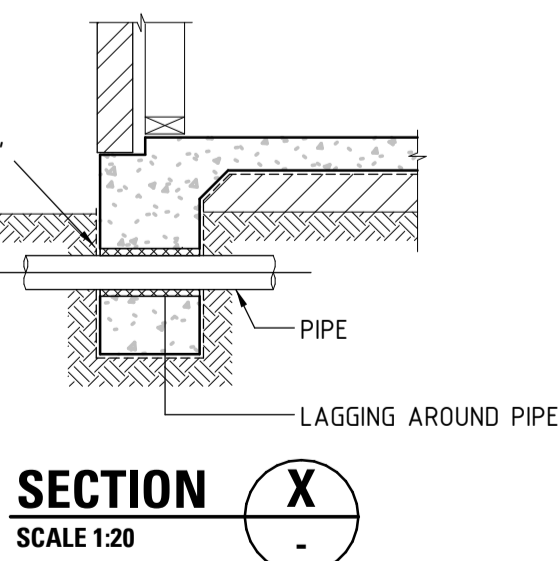
LOCALLY DEEPEN BEAM UNDER PIPE LOCATION WHEN PIPE AND LAGGING DIA. EXCEED 1/3 BEAM DEPTH ("X" = PIPE Ø + LAGGING)

**PIPE LAGGING REQUIREMENTS:**  
(EXTERNAL BEAMS ONLY)

CLASS A, S, M-D SITES - 20mm CLOSED CELL POLYETHYLENE  
CLASS H-D, E-D SITE - 40mm CLOSED CELL POLYETHYLENE  
FLEXIBLE CONNECTIONS SHALL BE PROVIDED IN PIPES THROUGH EXTERNAL BEAMS IN CLASS H-D & E-D SITES.

**NOTE:**  
THE USE OF 'DENSO TAPE' IS RECOMMENDED

FOR FOOTING BEAM AND UNDER SLAB DETAILS REFER EXTERNAL AND INTERNAL FOOTING DETAILS



**SECTION X**  
SCALE 1:20

**PILE DESIGN & INSTALLATION NOTES:**

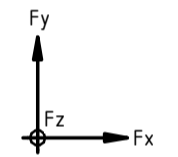
1. ALL LOADS ARE IN KN & ULTIMATE LOADS
2. DESIGN LIFE OF PILES - 50 YEARS
3. THE PILING INSTALLATION SHALL BE TO AS2159-2009 FOR THE LOADS TABULATED.
4. THIS IS A DESIGN & CONSTRUCT CONTRACT THE PILING CONTRACTOR TO PROVIDE CERTIFICATION CONFIRMING THAT THE PILE DESIGN CONFORMS TO AS2159-2009 & THAT THE PILES HAVE BEEN INSTALLED TO ACHIEVE THE DESIGN LOADS.
5. CUT-OFF LEVELS OF THE PILES SHALL BE PROVIDED TO THE CONTRACTOR.
6. THE CONTRACTOR SHALL SUBMIT WITH HIS TENDER A SET-OUT DRAWING SHOWING PILE LOCATIONS & CAPACITIES.
7. THE PILING TENDER SHALL INCLUDE A SCHEDULE OF PILING RATES WITH THE TENDER.
8. FOR MULTIPLE PILE SOLUTIONS CONTRACTOR TO ALSO PROVIDE PILE CAP DETAILS AS PART OF THE PROPOSED PILING METHOD.

**PILE LOAD SCHEDULE**

LOAD MARK	DESIGN LOADS (KN) (ULTIMATE)			
	SHEAR FORCE Fx	SHEAR FORCE Fy	AXIAL FORCE Fz	
			COMP	TENS
P1	30	30	875	-
P2	30	30	875	-
P3	30	30	810	-
P4	30	30	810	-
P5	30	30	965	-
P6	30	30	965	-
P7	30	30	885	-
P8	30	30	885	-
P9	30	30	915	-
P10	30	30	915	-
P11	30	30	1380	-
P12	30	30	1210	-
P13	30	30	1210	-
P14	30	30	1415	-
P15	30	30	1415	-
P16	30	30	1310	-
P17	30	30	1310	-
P18	45	30	1465	-
P19	45	30	1465	-
P20	30	30	1215	-
P21	30	30	1215	-
P22	30	30	1343.3	-
P23	30	30	1343.3	-
P24	30	30	1343.3	-
P25	30	30	1150	-
P26	30	30	1150	-
P27	30	30	1150	-
P28	30	30	1460	-
P29	30	30	1460	-
P29a	30	30	1460	-
P30	30	30	1310	-
P31	30	50	1265	-
P32	30	50	1265	-
P33	30	30	1575	-
P34	30	30	1575	-
P35	460	260	4980	350
P36	460	260	3780	350
P37	460	260	4980	350
P38	460	260	4980	350
P39	460	260	3780	350
P40	460	260	4980	350
P41	30	30	685	-
P42	30	30	685	-
P43	30	30	1685	-
P44	30	30	1685	-
P45	30	30	1685	-

**PILE LOAD SCHEDULE (CONT.)**

LOAD MARK	DESIGN LOADS (KN) (ULTIMATE)			
	SHEAR FORCE Fx	SHEAR FORCE Fy	AXIAL FORCE Fz	
			COMP	TENS
P46	350	470	4050	2060
P47	350	470	4050	2060
P48	350	470	4050	2060
P49	350	470	4050	2060
P50	350	470	4050	2060
P51	350	470	4050	2060
P52	350	470	4050	2060
P53	350	470	4050	2060
P54	350	470	4050	2060
P55	30	350	1445	-
P56	30	350	1445	-
P57	30	30	1075	-
P58	30	30	1075	-
P59	30	30	1075	-
P60	30	30	1075	-
P61	30	45	1066.6	-
P62	30	45	1066.6	-
P63	30	45	1066.6	-
P64	30	200	540	-
P65	30	200	540	-
P66	30	55	740	-
P67	30	55	740	-
P68	30	200	1106.6	-
P69	30	200	1106.6	-
P70	30	200	1106.6	-
P71	30	215	480	-
P72	30	215	480	-
P73	30	70	825	-
P74	30	70	825	-
P75	30	30	1320	-
P76	30	30	1320	-
P77	30	30	1320	-
P78	30	30	1320	-
P79	30	340	1480	-
P80	30	340	1480	-
P81	30	150	980	-
P82	30	150	980	-
P83	30	60	1050	-
P83a	30	60	1050	-
P84	30	55	1160	-
P85	30	55	1160	-
P86	30	110	1050	-
P87	30	110	1050	-
P88	30	155	950	-
P89	30	155	950	-



**LOAD DIRECTION**

**CONCRETE COLUMN SCHEDULE (east)**

MARK	SIZE	REMARKS
1C1	400 x 900	CONCRETE COLUMN
1C2	600 x 350	CONCRETE COLUMN
1C3	600 x 350	CONCRETE COLUMN
2C1	600 x 350	CONCRETE COLUMN
2C2	600 x 350	CONCRETE COLUMN
BC1	400 x 900	CONCRETE COLUMN
BC2	400 x 900	CONCRETE COLUMN
BC3	600 x 350	CONCRETE COLUMN
CC3	600 x 350	CONCRETE COLUMN
GC1	400 x 900	CONCRETE COLUMN
GC2	600 x 350	CONCRETE COLUMN

**STRIP FOOTING SCHEDULE**

MEMBER	WIDTH	DEPTH	REINFORCEMENT
SF1	400	800	3N16 TOP & BTM, W8-800 LIGS.
SF2	300	600	3N12 TOP & BTM, W6-800 LIGS.

**PILE CAP SCHEDULE**

MEMBER	LENGTH	WIDTH	THICKNESS	REINFORCEMENT
PC1	3650	3335	900	N28-150 EW, TOP & BTM.
PC2	3650	1300	750	N28-150 TOP & BTM, 2/N16-150 LIGS.
PC3	3650	3650	1100	N28-150 EW, TOP & BTM.
PC4	1300	1300	600	N24-200 EW, TOP & BTM.
PC5	6600	4050	1100	N24-200 EW, TOP & BTM.
PC6	6850	6850	1100	N24-200 EW, TOP & BTM.

**LEGEND:**

- ☒ DENOTES COLUMN ABOVE (BOLD TEXT)
- ☒ DENOTES COLUMN UNDER
- DENOTES CONTROL JOINT. REFER TYPICAL DETAIL ON 20492-S03.

Designer	RW	Drawn	82 & MM
Approved	AV	Date	02/07/2019 1:00:21 PM
STRUCTURAL		Sheet	2 of 4

Project  
**HYDE PARK PLACE**  
**248 UNLEY ROAD,**  
**HYDE PARK SA**

Client  
**CITYFY & BFC PTY LTD**

Drawing Title  
**BASEMENT LAYOUT PLAN**

Drawing Number  
**20492-S02**



Scale  
As indicated

Issue  
**T**