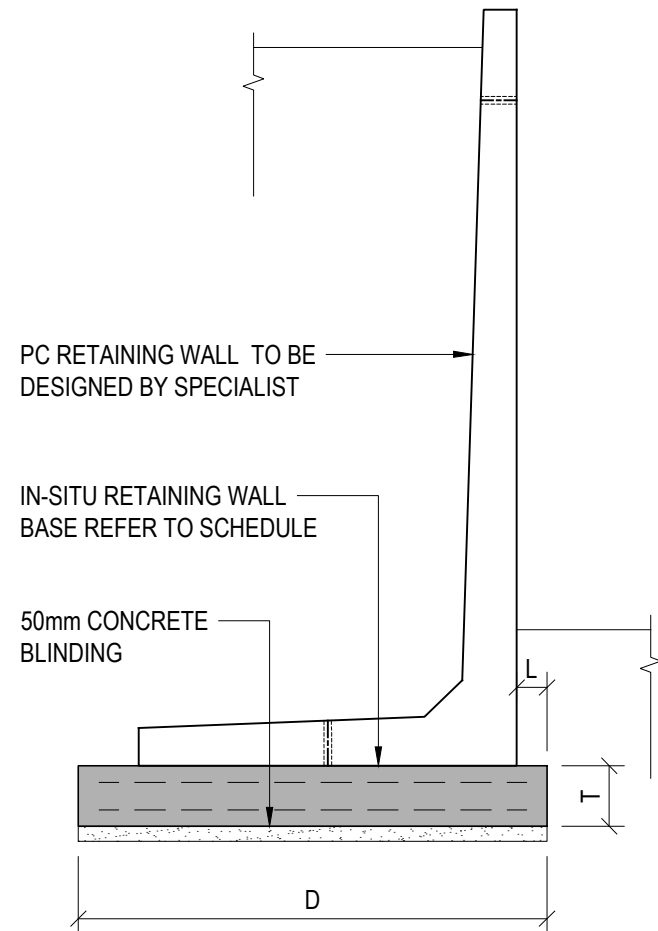




TYPICAL PC RETAINING WALL DETAIL
SCALE 1: 25

RETAINING WALL BASE SCHEDULE				
SURCHARGE: 10 KN/m ² (FOOTPATH)				
UNIT HEIGHT (m)	D (mm)	T (mm)	L (mm)	REINFORCEMENT REQUIREMENT
1.0m	1250	250	150	1 LAYER OF A393 MESH TOP & BOTTOM (50mm COVER)
1.5m	1500	250	150	1 LAYER OF A393 MESH TOP & BOTTOM (50mm COVER)
1.75m	1750	300	150	1 LAYER OF A393 MESH TOP & BOTTOM (50mm COVER)
2.0m	2000	300	300	1 LAYER OF A393 MESH TOP & BOTTOM (50mm COVER)
2.5m	2750	350	300	2 LAYERS OF A393 MESH TOP & BOTTOM (50mm COVER)
3.0m	3000	350	300	2 LAYERS OF A393 MESH TOP & BOTTOM (50mm COVER)
3.5m	3250	350	350	1 LAYER OF B1131 MESH TOP & BOTTOM (50mm COVER)
4.0m	3750	400	450	1 LAYER OF A393+1 LAYER OF B1131 MESH TOP & BOTTOM (50mm COVER)
BASED ON ALLOWABLE GBP OF 150kN/m ² VIA VIBRO STONE COLUMN GROUND IMPROVEMENT				

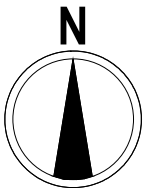
RETAINING WALL BASE SCHEDULE				
SURCHARGE: 25 KN/m ² (EXTERNAL YARD)				
RETAINED HEIGHT	D(mm)	T(mm)	L (mm)	REINFORCEMENT REQUIREMENT
1.0m	1250	250	150	1 LAYER OF A393 MESH TOP & BOTTOM
1.5m	1750	250	150	1 LAYER OF A393 MESH TOP & BOTTOM
1.75m	2000	300	300	1 LAYER OF A393 MESH TOP & BOTTOM
2.0m	2500	300	300	1 LAYER OF A393 MESH TOP & BOTTOM
2.5m	3250	350	450	2 LAYERS OF A393 MESH TOP & BOTTOM
3.0m	4250	450	550	1 LAYER OF B1131 MESH TOP & BOTTOM (50mm COVER)
3.5m	4500	550	600	1 LAYER OF B1131 MESH TOP & BOTTOM (50mm COVER)
4.0m	5000	550	750	1 LAYER OF A393+1 LAYER OF B1131 MESH TOP & BOTTOM (50mm COVER)
BASED ON ALLOWABLE GBP OF 150kN/m ² VIA VIBRO STONE COLUMN GROUND IMPROVEMENT				

NOTES

1. PRECAST RETAINING WALLS TO BE DESIGNED BY SPECIALIST TO SUIT NATURAL SOIL PARAMETERS (REFER TO GROUND INVESTIGATION REPORT). DESIGNS MUST TAKE INTO ACCOUNT DEPTH OF RETAINED EARTH AND APPROPRIATE SURCHARGE LOAD:
 - EXTERNAL YARD 25kN/m²
 - FOOTPATH 10kN/m²
2. FORMATION TO BE WELL COMPACTED AND FREE FROM SOFT SPOTS OR DELETERIOUS MATERIAL. ANY SOFT OR DELETERIOUS MATERIAL TO BE REMOVED AND REPLACED WITH COMPACTED GRANULAR FILL.
3. FOLLOWING PREPARATION OF FORMATION, CONTRACTOR TO CARRY OUT 750mm DIAMETER PLATE BEARING TESTS AT A RATE AGREED WITH THE ENGINEER.
4. FOUNDATION CONCRETE GRADE DESIGNATED MIXES:
 - BLINDING CONCRETE TO BE GRADE C25/30
 - REINFORCED CONCRETE BASES TO BE GRADE FND2

ALL DESIGNATED CONCRETE TO THE LATEST EDITIONS OF BS EN 206-1 AND BS 8500-1&2. (DESIGN SULPHATE CLASS DS-2, AGGRESSIVE CHEMICAL ENVIRONMENT FOR CONCRETE CLASS AC-2)

T1	26.04.24	TENDER ISSUE	MH	IG
P1	05.04.24	PRE-TENDER REVIEW	MH	IG
Rev.	Date	Description	Technician	Reviewer





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Project

CRABTREE LANE,
MANCHESTER

Drawing

PRECAST RETENTION

Drawing Set

STRUCTURE

Drawing Status

TENDER

Scale

1:25 @ A3

Project Number

23-026-I&L

Drawing Number

S13

Revision

T1