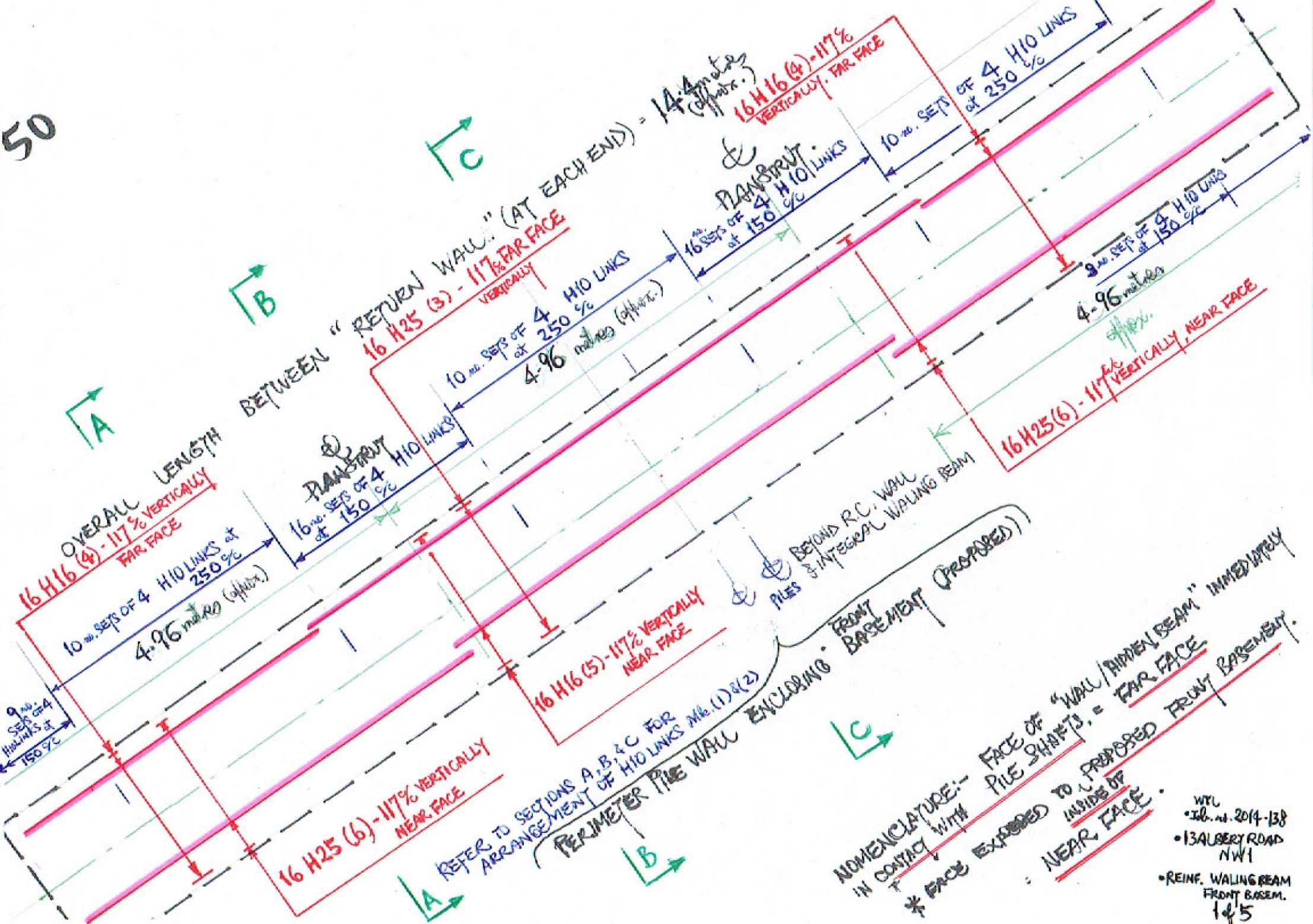
50


BETWEEN "RETURN WALL" (AT EACH END) = 14·4 metres (approx.)
OVERALL LENGTH
16 H16 (4) - 117 c/c VERTICALLY FAR FACE
16 H25 (3) - 117 c/c FAR FACE VERTICALLY
16 H16 (4) - 117 c/c VERTICALLY, FAR FACE
10 no. SETS OF 4 H10 LINKS at 250 c/c
4·96 metres (approx.)
& PLANSTRUT 16 no. SETS OF 4 H10 LINKS at 150 c/c
10 no. SETS OF 4 H10 LINKS at 250 c/c
4·96 metres (approx.)
& PLANSTRUT 16 no. SETS OF 4 H10 LINKS at 150 c/c
9 no. SETS OF 4 H10 LINKS at 150 c/c
4·96 metres (approx.)
16 H25 (6) - 117 c/c VERTICALLY, NEAR FACE
16 H16 (5) - 117 c/c VERTICALLY NEAR FACE
& BEYOND R.C. WALL & INTEGRAL WALING BEAM
PILES
9 no. SETS OF 4 H10 LINKS at 150 c/c
16 H25 (6) - 117 c/c VERTICALLY NEAR FACE
REFER TO SECTIONS A, B & C FOR ARRANGEMENT OF H10 LINKS Mks. (1) & (2)
PERIMETER PILE WALL ENCLOSING FRONT BASEMENT (PROPOSED)
A
B
C
NOMENCLATURE:- FACE OF "WALL/HIDDEN BEAM" IMMEDIATELY IN CONTACT WITH PILE SHAFTS. = FAR FACE
* FACE EXPOSED TO & INSIDE OF PROPOSED FRONT BASEMENT. = NEAR FACE.
WFL
• Job. no. 2014-138
• 13 ALBERY ROAD NW1
• REINF. WALING BEAM FRONT BASEM.
1 of 5

Calculations

WT&L CHARTERED ENGINEERS BUILDING DESIGN CONSULTANTS

Job Ref:			
Calc	Checked	Date OCTOBER 2015	Project 13 PRINCE ALBERT ROAD, NW1	Page No

WALL FROM "TOP-DOWN" CONSTRUCTION

475

1800

117

H10 (2)

H10 overall link mark (1)

10ϕ OVERALL LINK mark (1)

16 no. H16 FAR FACE

16 no. H25 (6) near face

FAR FACE

NEAR FACE

SECTION NEAR MIDSPAN OF END SPANS

A-A

35 cover to links

16 no. H25 FAR FACE mark (3)

16 no. H16 NEAR FACE mark (5)

SECTION AT END OF 356×368 UC153 PLAN STRUT

B-B

16 no. H16 FAR FACE

16 no. H16 NEAR FACE

SECTION NEAR MIDSPAN OF CENTRAL SPAN

C-C

WT&L CONSULTING LTD

Bar schedule ref :

Rev letter

Site ref : 13 ALBERT ROAD NW1

Date prepared : 1st OCTOBER, 2015

Job no : 2014 - 138

Prepared by : GC Checked by : GC

Member	Bar mark	Type and size	No. of mbrs	No. of bars in each	Total no.	Length of each bar † mm	Shape code	A * mm	B * mm	C * mm	D * mm	E/R * mm	Rev letter
INTEGRAL WALING BEAM	1	H10	1	80	80	4600	51	1800	410	130	130		
	2	H10	1	240	240	1780	51	400	410	130	130		
FRONT WALL PARALLEL TO PRINCE ALBERT ROAD	3	H25	1	16	16	8400	00	8400					
	4	H16	1	32	32	4000	00	4000					
	5	H16	1	16	16	5600	00	5600					
	6	H25	1	32	32	5200	00	5200					
RETURN WALLS PERPENDICULAR TO FRONT WALL	5	H16	2	16	32	5600	00	5600					
	6	H25	2	16	32	5200	00	5200					
	1	H10	2	27	54	4600	51	1800	410	130	130		
	2	H10	2	81	162	1780	51	400	410	130	130		

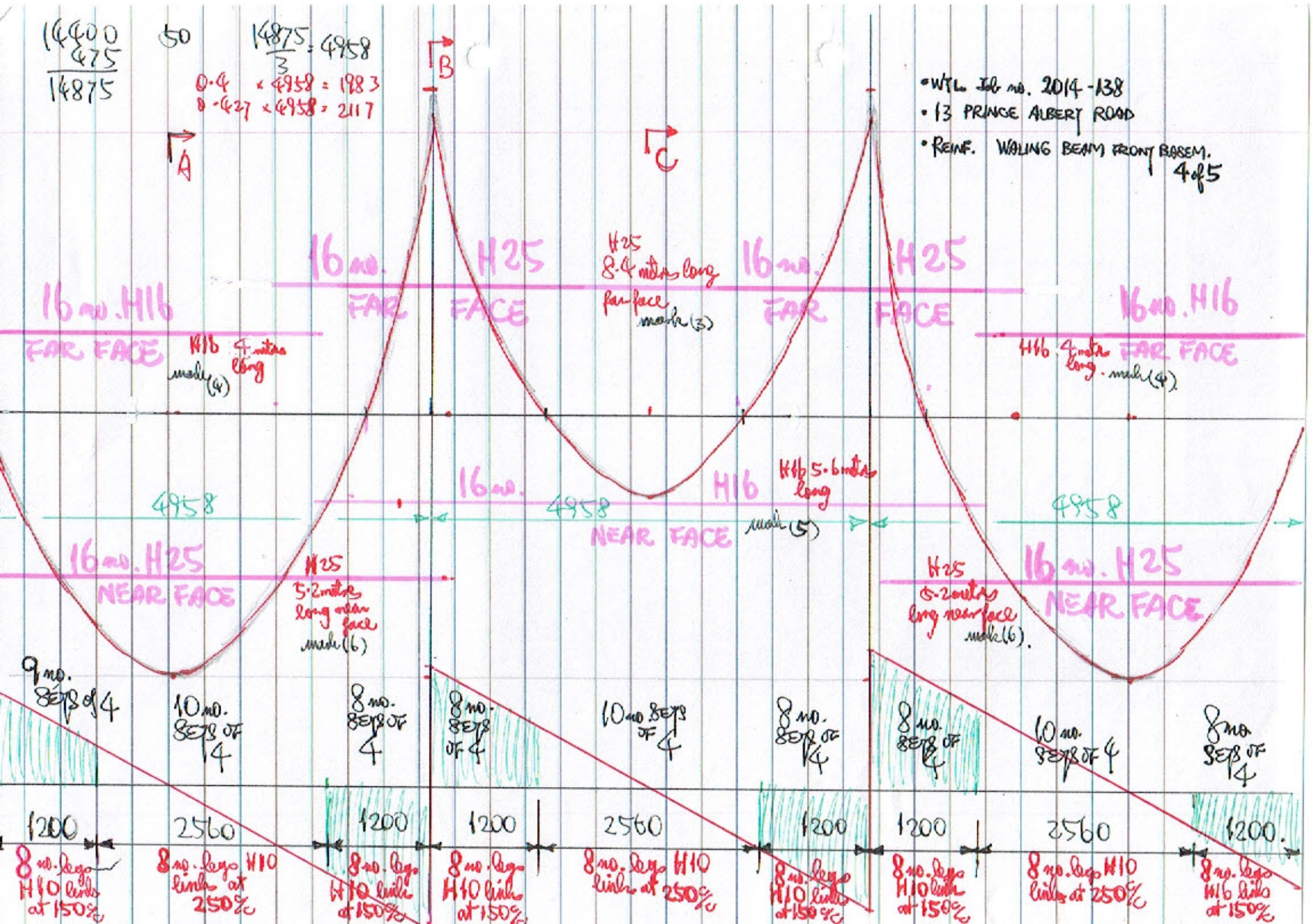
This schedule conforms to BS 8666:2005

SPREADSHEET LICENSED TO HYDER CONSULTING (UK) LTD

Bar Schedule 8666 v5.01

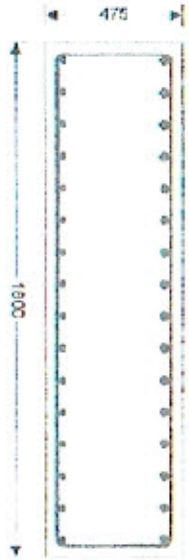
* Specified in multiples of 5mm.

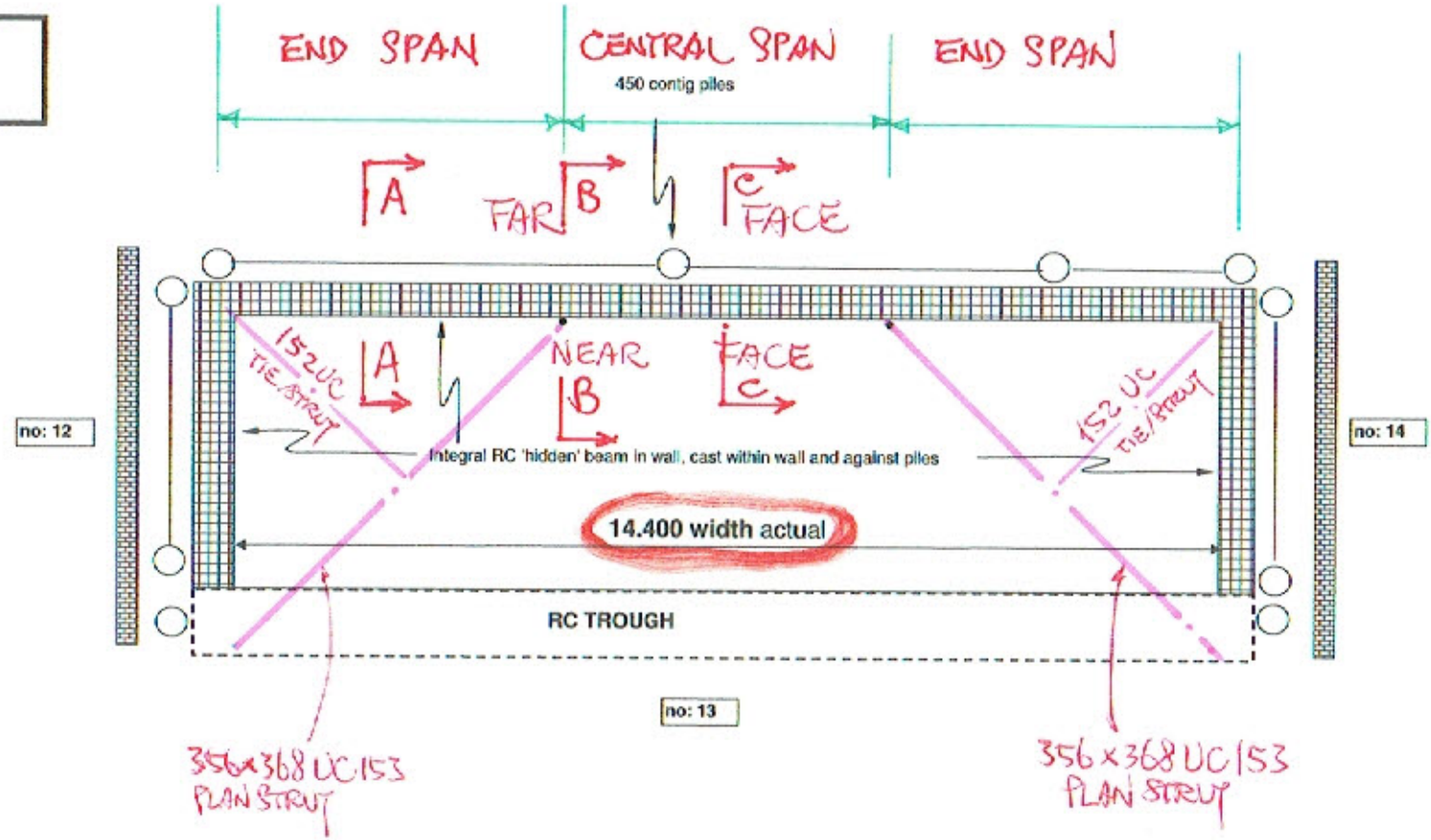
† Specified in multiples of 25mm.


14400
475
14875
50
14875/3 = 4958
0.4 × 4958 = 1983
0.427 × 4958 = 2117
B
A
C
• W.C. Job no. 2014-138
• 13 PRINCE ALBERT ROAD
• REINF. WALING BEAM FRONT BASEM.
4 of 5
16 no. H25 FAR FACE
H25 8.4 metres long far face mark (3)
16 no. H16 FAR FACE
H16 4 metres long mark (4)
16 no. H16 FAR FACE
H16 4 metres long mark (4)
16 no. H25 FAR FACE
4958
16 no. H16 NEAR FACE
H16 5.6 metres long mark (5)
4958
16 no. H25 NEAR FACE
H25 5.2 metres long near face mark (6)
H25 5.2 metres long near face mark (6).
16 no. H25 NEAR FACE
9 no. SETS OF 4
10 no. SETS OF 4
8 no. SETS OF 4
8 no. SETS OF 4
10 no. SETS OF 4
8 no. SETS OF 4
8 no. SETS OF 4
10 no. SETS OF 4
8 no. SETS OF 4
1200
2560
1200
1200
2560
1200
1200
2560
1200
8 no. legs H10 links at 150%
8 no. legs H10 links at 250%
8 no. legs H10 link at 150%
8 no. legs H10 link at 150%
8 no. legs H10 links at 250%
8 no. legs H10 links at 150%
8 no. legs H10 links at 150%
8 no. legs H10 links at 250%
8 no. legs H16 links at 150%

Areaview 13 Prince Albert Rd. Front 'hidden' beam

SK Integ Wal Bm. Frnt.29-9-15





Geoffrey,

on Wallaces analysis pages 15,16,17,18 & 19, there are calcs for various diameter of bar
Can you confirm what diameter bars are in this 'hidden' beam including, locations for varying diameters (if any) spacings, also shear lengths diameter and spacings, also corner bars

- WTL Job no. 2014-138
- 13 PRINCE ALBERT ROAD NW1
- REINF. WALING BEAM FRONT BASEM. 5 of 5