PRICE & MYERS

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Date	29.09.2020	Eng	CA	Chd	AS
Job	8 Oakhill Avenue				

STEEL COLUMN SCHEDULE
SC1 - 150x150x16.0 SHS (S355)
SC2 - 152x152x37UC
SC3 - 203x203x86 UC
SC4 - 120x80x10 RHS (S355)
SC5 - 200x100x8 RHS (S355)
SC6 - 203x203x46 UC
SC7 - 254x146x43 UB
SC8 - 200x150x10 RHS (S355)
SC9 - 160x80x10 RHS (S355)

STEEL BEAM SCHEDULE
SB1 - 152x152x37 UC
SB2 - 203x203x46 UC
SB3 - 203x203x60 UC
SB4 - 203x203x71 UC
SB5 - 203x203x86 UC
SB6 - 203x102x23 UB
SB7 - 203x133x30 UB
SB8 - 200x90x30 PFC
SB9 - 150x90x24 PFC
SB10 - 305x102x33 UB
SB11 - 125x65x15 PFC
SB12 - 200x150x10 RHS
SB13 - 200x100x10 RSA
SB14 - 152x89x16 UB

TIMBER MEMBER SCHEDULE
Rafter Schedule (C24 at 400crs)
R1 100x50
Joist Schedule (C24 at 400crs)
J1 125x50
J2 250x50
J3 150x50
J4 200x50
Flitch Beams (C24 joists+ S235 plate)
FB1 - 2No 225x50 + 220x12

CONCRETE BEAM, COLUMN AND PADSTONE SCHEDULE
CB1 - 600x600 (4no H16 T+B ,EF; 4leg H8 links at 250crs)
CB2 - 600x900 (4no H16 T+B, EF; 4leg H8 links at 250crs)

CC1 - 200x800 (4no H16 EF; H8 links at 150crs)

P1 - 450lg x 110wd x 215dp
P2 - 600lg x 110wd x 215dp
P3 - 450lg x 215wd x 215dp

FOR COSTING
NOT FOR CONSTRUCTION

All internal faces of ground beams to have 75mm cordek heavegaurd or similar

All exposed RC to be fair faced in accordance with Architects specification

Existing terrace build-up retained below new rear extension

Piles designed by Contractor, assume CFA piles, 12-18m deep. Pile Loads: DL=125kN, LL=25kN (unfactored load/pile)

Tree

Existing wall retained

Site boundary

250thk RC liner wall H16s at 150 vertical bars and H12s at 150 distribution bars

275thk RC retaining walls H16s at 150 vertical bars and H12s at 150 distribution bars

RC wall extended to edge of ground floor void above to support ground floor steel columns

Mass concrete transition underpins stepping 1m per 1m

New folded steel cantilever stair to Architects details and subject to structural design by others. Allow for SC5 columns in each corner and 200x100x10RHS stringers

6 Oakhill Avenue

8 Oakhill Avenue

200thk RCS2

P1 P2 CB2 P3 P4

3093

CB2 P5 CB1 P6 CB1 P7

CB1

P8 P9 P10 P11

3093

400thk

CC1

CC1

1.2x1.2 x.45 RC foundation

1.8x1.8x.45 RC foundation

Existing foundations over

RC pump chamber with 200thk RC walls and base Approx internal dimensions 2.25lg x 1.25wd x 1.25dp H12s at 150 T+B/EF both directions (180kg/m3)

1.8x1.8x.45 RC foundation

1.8x1.8x.45 RC foundation

Root Protection Zone

All foundations to be found at 1.5m below ground level in undisturbed natural clays

Allow for localised underpinning of existing foundation to prevent undermining during construction of new pad

Tree

Tree

200thk RCS2

300thk RCS1

3092

3092

8 Oakhill Avenue

10 Oakhill Avenue

Root Protection Zone

200thk RC retaining walls with H12 bars at 150crs both direction each face. Typical throughout

Services trench cast below ground floor slab and enters basement at high level, provide 150RC walls and base with A193 mesh throughout

Legend

- Existing structure
- Existing structure demolished
- Structure under
- New brickwork (20N)
- New blockwork (7N)
- New steel beam
- New steel transfer beam
- Sxx* Denotes moment connection; Astrix denotes hot dip galvanised steelwork
- HB/VB 100x10 steel cross bracing
- *Existing* joists; New C24 joist at 400crs with 2no layers of 12mm WBP plywood deck glued and screwed to all joists, cross lapped. Refer to joist schedule for sizes
- 110thk Comflor51+ with H8 bars in every trough (150crs) and A193 mesh in top, 30mm cover to all rebar
- Reinforced concrete slab RCS1 - H12s at 150 T+B EW RCS2 - A393 mesh T+B GB - Ground bearing on 50mm Gen1 blinding on 150mm well compacted type 1 hardcore

Cellcore requirements
Under ground beams - 220thk Hx-B 24/32
Internal face of ground beams and pad foundations - 75thk heaveguard
Under ground floor extension slab - 225thk Hx-S 7/10

Proposed Basement Floor Plan

Temporary Works
Contractor to allow for temporary propping to retained existing roof structure while internal load bearing structure removed below. Also allow for restraint at each floor level to existing brick elevations. Undermining of temporary works should be considered during the excavation of basement/foundations