05. Conclusion
Belle Ombre rail station
Belle Ombre bus station
BRT Inner City Distr. bus
Electrical substation
Belle Ombre plaza
Mixed use
Inner City Distr. plaza
Belle Ombre rail station
Belle Ombre bus station
BRT
BOOM ST
Mixed use
GRAND ST
Mixed use
BRT
BLOED ST
Figure 98. (opposite) site plan not to scale.
Figure 99. (opposite, below and next page) Section a-a nts.
300x300 in-situ reinforced concrete column
off shutter finish, final spec. to engineer

200x50 in-situ reinforced concrete column
off shutter finish, final spec. to engineer

6.6 galvanized steel gutter

200x50 precast prestressed reinforced concrete beam, unfinished, final spec. to engineer

Aluminum louver with translucent insert to manufacturer

6.6 galvanized steel flashing set in recess in concrete beam to be filled with silicone. Flashing fixed to timber support beam with screws. 6x154 SAP support beam fixed to precast concrete beam with countersunk expansion bolts Ø 1000 pc

Aluminum louver with translucent insert to manufacturer

6.6 galvanized steel flashing set in recess in concrete beam to be filled with silicone. Flashing fixed to timber support beam with screws. 6x154 SAP support beam fixed to precast concrete beam with countersunk expansion bolts Ø 1000 pc

PVC grouting tube cast into in-situ concrete column

200x300 in-situ reinforced concrete column
off shutter finish, final spec. to engineer
300x300 in-situ reinforced concrete column

100x125 prestressed precast concrete post unfinished, bolted to steel support beam with galvanized steel bolts to engineer, steel and PVC washers at all connections.

cement grout fill

10x180x23.0 hot rolled taper flange structural steel channel bolted to concrete column with expansion bolt, 2mm steel washer between channel and column as spacer, also allowing for expansion through oval hole in channel.

75x50x20x2.0 galvanized cold formed unequal lip angle bolted to channel, to act as fixing bracket for concrete posts.

Hole for concrete post connection bolt

175x75x27x2.0 galvanized cold formed unequal lip angle bolted to channel, teflon shadowline, 15mm holes drilled for drainage at 500cc

Figure 100. (including opposite) details A & B, sts.
76x102x6.7 hot rolled galvanized steel channel, perforated and accommodates light fitting, fixed to column with welded steel bracket with countersunk self tapping steel screws removable for maintenance of wp LED light fitting.

490x490x50 precast concrete tiles on cement screed to 1:70 fall to floor drain

In-situ concrete washing troughs, polystyrene blocks to act as void filling.

76x102x6.7 perforated galvanized steel channel fixed to concrete column with M8 expansion bolts where welded vertical extension connects to column. All welding to be done before galvanizing.

uPVC floor drain set in cement screed, 80mm uPVC downpipe in column to basement drain and greywater reticulation system.

Figure 101. (including opposite) detail C. nts.
basement plan
Figure 104. Collage including first floor plan.
Figure 105. Collage including roof plan.