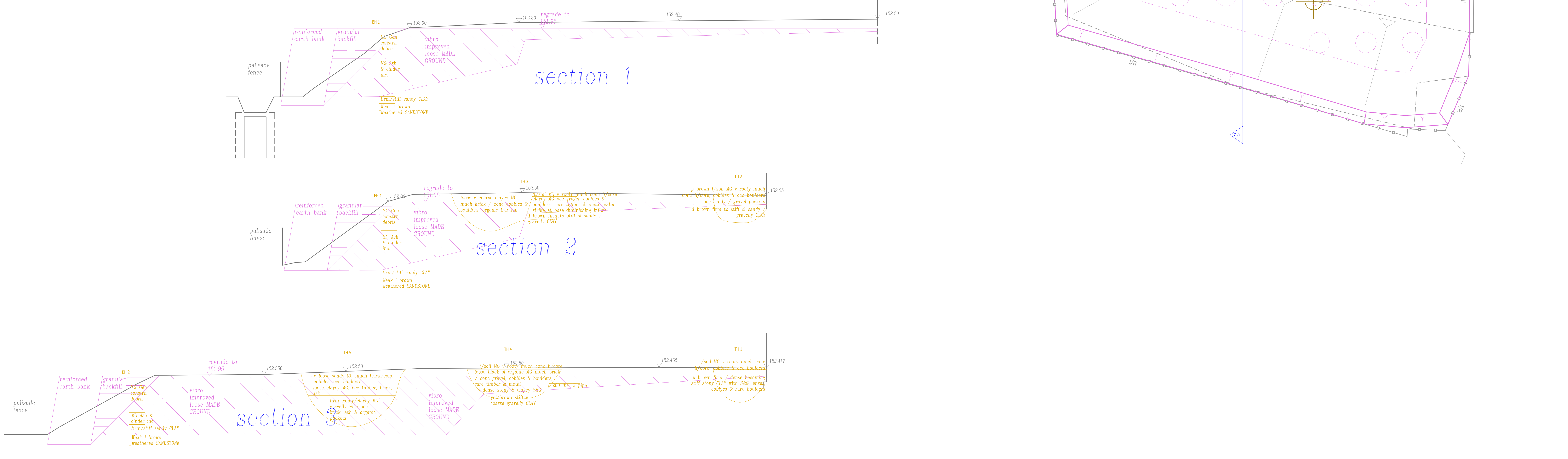
section 6
151.79
BH 1
152.170
regrade to 151.95
r lvl 151.95
152.430
152.225
vibro improved loose MADE GROUND
MG General Building debris.
MG Ash & cinder inc.
firm/stiff sandy CLAY
Weak l brown Weathered SANDSTONE
masonry r wall
section 7
BH 3
MG General constrn debris.
MG clays & cinder inc.
v dense med SAND with GRAVEL nom bedrock level
granular backfill
reinforced earth bank
900 dia PCC culvert IL a146.5
900 high stone culvert IL a146.5
Caldershaw Centre
Development Site
vibro piles (nom 2700 crs) thro MADE GROUND to achieve SBP 50 kN/sqm
Pile layout by specialist contractor design
TH 1
TH 2
TH 3
TH 4
TH 5
BH1
BH2
BH3
Unmade
Concrete
Wall
Kerb
I/R
IC
ST
TP
LV cable
125 PE LP gas
6-6.6 kV cable
6-6.6 kV cables in ducts
900 dia pcc culvert (depth & posn estimated)
900 sq stone culvert (depth & posn estimated)
exg 300 x 300 masonry culvert line and location unknown
exg 150mm dia pvc land drain line and location unknown
u/g chamber, CL 147.1, IL 142.85
assumed line of ex 900 dia stone culvert
Water seepage from from bank
1
2
3
4
5
6
7


section 1
palisade fence
reinforced earth bank
granular backfill
BH 1
152.00
152.30
regrade to 151.95
152.40
152.50
MG Gen constrn debris.
MG Ash & cinder inc.
vibro improved loose MADE GROUND
firm/stiff sandy CLAY
Weak l brown weathered SANDSTONE
section 2
TH 3
TH 2
152.50
152.35
loose v coarse clayey MG much brick / conc cobbles & boulders, organic fraction
t/soil MG v rooty much conc h/core clayey MG occ gravel, cobbles & boulders, rare timber & metal water strike at base diminishing inflow
d brown firm to stiff sl sandy / gravelly CLAY
p brown t/soil MG v rooty much conc h/core, cobbles & occ boulders occ sandy / gravel pockets
d brown firm to stiff sl sandy / gravelly CLAY
section 3
BH 2
TH 5
TH 4
TH 1
152.250
152.50
152.465
152.417
v loose sandy MG much brick/conc cobbles, occ boulders
loose clayey MG, occ timber, brick, ask
firm sandy/clayey MG, gravelly with occ brick, ash & organic pockets
t/soil MG v rooty much conc h/core
loose black sl organic MG much brick / conc gravel, cobbles & boulders, rare timber & metal
dense stony & clayey S&G
yel/brown stiff v coarse gravelly CLAY
200 dia CI pipe
t/soil MG v rooty much conc h/core, cobbles & occ boulders
p brown firm / dense becoming stiff stony CLAY with S&G lenses, cobbles & rare boulders

GENERAL NOTES.

0.0 THIS DRAWING IS COPYRIGHT AND IS SENT TO YOU IN CONFIDENCE IT MUST NOT BE COPIED, USED OR DISCLOSED, IN WHOLE OR IN PART, TO THIRD PARTIES WITHOUT WRITTEN PERMISSION. IT REMAINS THE PROPERTY OF TJBA AND MUST BE RETURNED ON REQUEST.
0.1 THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT CONTRACTUAL DOCUMENTS.
0.2 For site datum refer to Survey Systems topographical survey Reproduced on Messres Ferguson Developments drg no. 2782.02.
0.3. All dims in mm unless o/w stated.
0.4. SOP from corners of existing building to proposed steelwork grid as shown on Phase 1 Earthworks Plan & Sections drawing.
1.0 WORKMANSHIP
1.1 All workmanship and materials to comply with Building Regulations British Standards and Codes of Practice. All materials to be stored, mixed and fixed in accordance with manufacturers instructions and recommendations.
1.2 All provisions for temporary means of support and regulations for Health & Safety at Work to be complied with.
1.3 All works to be carried out to the complete satisfaction of the Local Authority Building Control Officer.
1.4 All works to be carried out in strict accordance with HSE guidance and CDM regulations.
1.5 Do not scale the contractor must verify all
dimensions prior to commencing shop drawings or work on site.
1.6 All services above and below ground to be located, identified, de-commissioned, diverted or protected as necessary prior to and during the course of the work and reinstated on completion, fully in accordance with relevant codes of practice and statutory undertakers requirements.

SEQUENCE OF WORK.

| | |
|---|---|
| PHASE 1 | identify culverts & drains & install temp diversions<br>excvn & constrn of RE embankment & gen backfilling<br>reduced level excvn of site to 151.95 maOD |
| PHASE 2 | installation of vibro piles to prepared grid<br>regrade site to 151.95 lvl.<br>install u/g drainage systems & services |
| PHASE 3 | constrn of ground beams<br>infilling ground beams to slab subgrade lvl |
| PHASE 4 | erection of steel frames, masonry walls, roof & elevation cladding<br>constrn of floor slabs<br>constrn of external kerbs, slabs & finishes |

3.0 Phase 2, VIBRO PILES.
3.1 Materials: stone filled vibro replacement / displacement.
3.2 Section: Contractor design.
3.3 Length: Contractor design, Nlt depth of made ground.
3.4 Bearing: n/a.
3.5 Detail: pile posn & crs contractors design.
3.6 Piles to ground beams: Safe working load 50kN/sqm.
3.6 Piles to ground slabs: Safe working load 50kN/sqm.
3.6 Heaved surface regraded to 151.95 (except slope to sect 7).

estimating

AMENDMENTS/ ISSUES

| ISSUE | REASON/ CHANGE | DATE | BY |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| p3 | utilities added | oct 14 | tjb |
| p2 | th's 1 to 5 added | oct 14 | tjb |
| p1 | vibro pile scheme, units 9,10&11 added | aug 14 | tjb |
| p0 | units 9, 10 & 11 omitted, original for estimating | aug 14 | tjb |

T J BOOTH ASSOCIATES
CONSULTING CIVIL & GEOTECHNICAL ENGINEERS
20A Eastgate Street
Rochdale
Lancashire
OL16 1DH
Tel:01706 868288

# IQBAL / CALDERSHAW CENTRE

## Phase 2 Earthworks Vibro Plan & Sections

FILE NAME dwg-tjba-iqbal-caldershaw centre-040913.dwg

SCALE: 1 : 100 & 150 @ A0