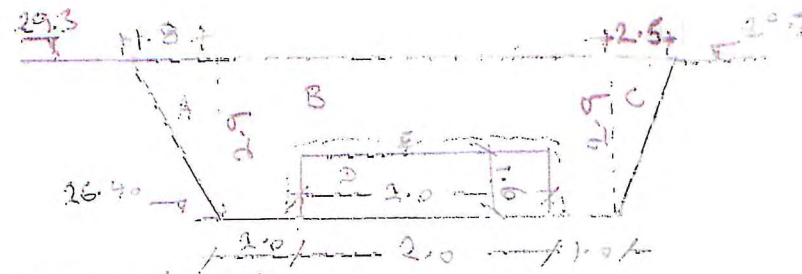


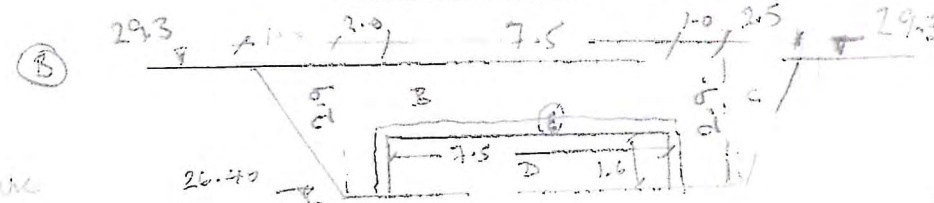
GF Fill

ATTENUATION TANK



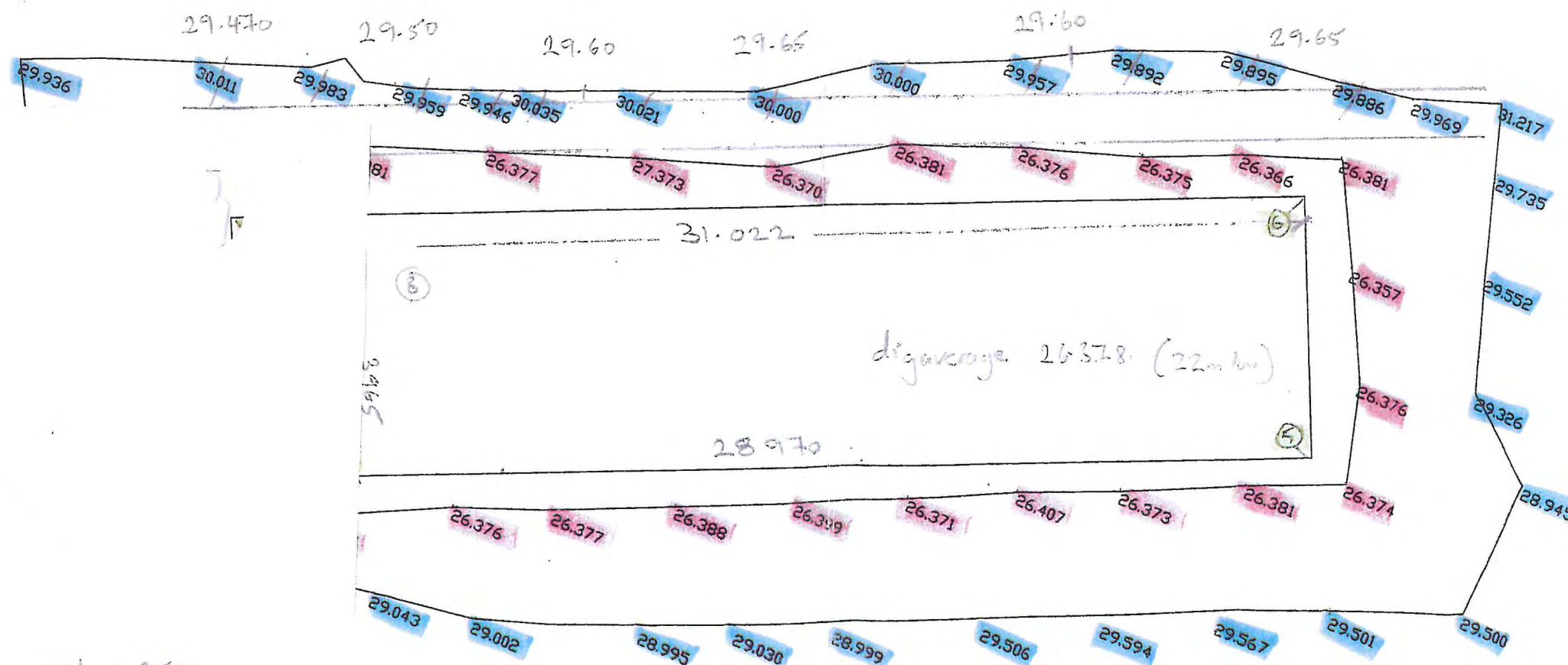
A $1.8 \times 2.9 \times 0.5 = 2.61$
 B $5.0 \times 2.9 = 14.50$
 C $2.5 \times 2.9 \times 0.5 = 3.62$
 D $2.0 \times 1.6 = 3.2$
 E $5.4 \times 0.1 = 0.54$

$16.99 \times 2 = 34m^3$



A $1.8 \times 2.9 \times 0.5 = 2.6$
 B $10.5 \times 2.9 = 30.4$
 C $2.5 \times 2.9 \times 0.5 = 3.6$
 D $7.5 \times 1.6 = 12.0$
 E $10.9 \times 0.1 = 1.09m^3$

$23.5 \times 29m = 681.5m^3$



A $7.5 \times 2.9 = 217.5$

B $3.5 \times 2 = 7.0$

$224.5m^2 \times 1.6dp = 359$

$228m^2 \times 1.6dp = 364.80m$

(1) $E = 383783.792$
 $N = 399224.441$

(2) $E = 383784.201$
 $N = 399221.273$

(3) $E = 383787.021$
 $N = 399222.027$

(4) $E = 383788.631$
 $N = 399218.494$

(5) $E = 383815.102$
 $N = 399230.175$

(6) $E = 383812.138$
 $N = 399237.045$

ACTUAL ATTENUATION
 TANK EXCAVATION
 AS HANDED TO MAYO
 (RECORDS FROM
 MAYO FILES)

Phil Wang MAYO CIVIL



Banks Engineering And Management Ltd

Revisions:

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Rev.	Date	Description	By
------	------	-------------	----

Project:
MANCHESTER COLLEGE
CITY CENTRE

Drawing Title:
SITE AS RECEIVED
BY MAYO

Drawing Ref No:
MMP 002

Drawn/Surveyed By:
AB

Date: 17/7/2020

Scale at A3:
1:500

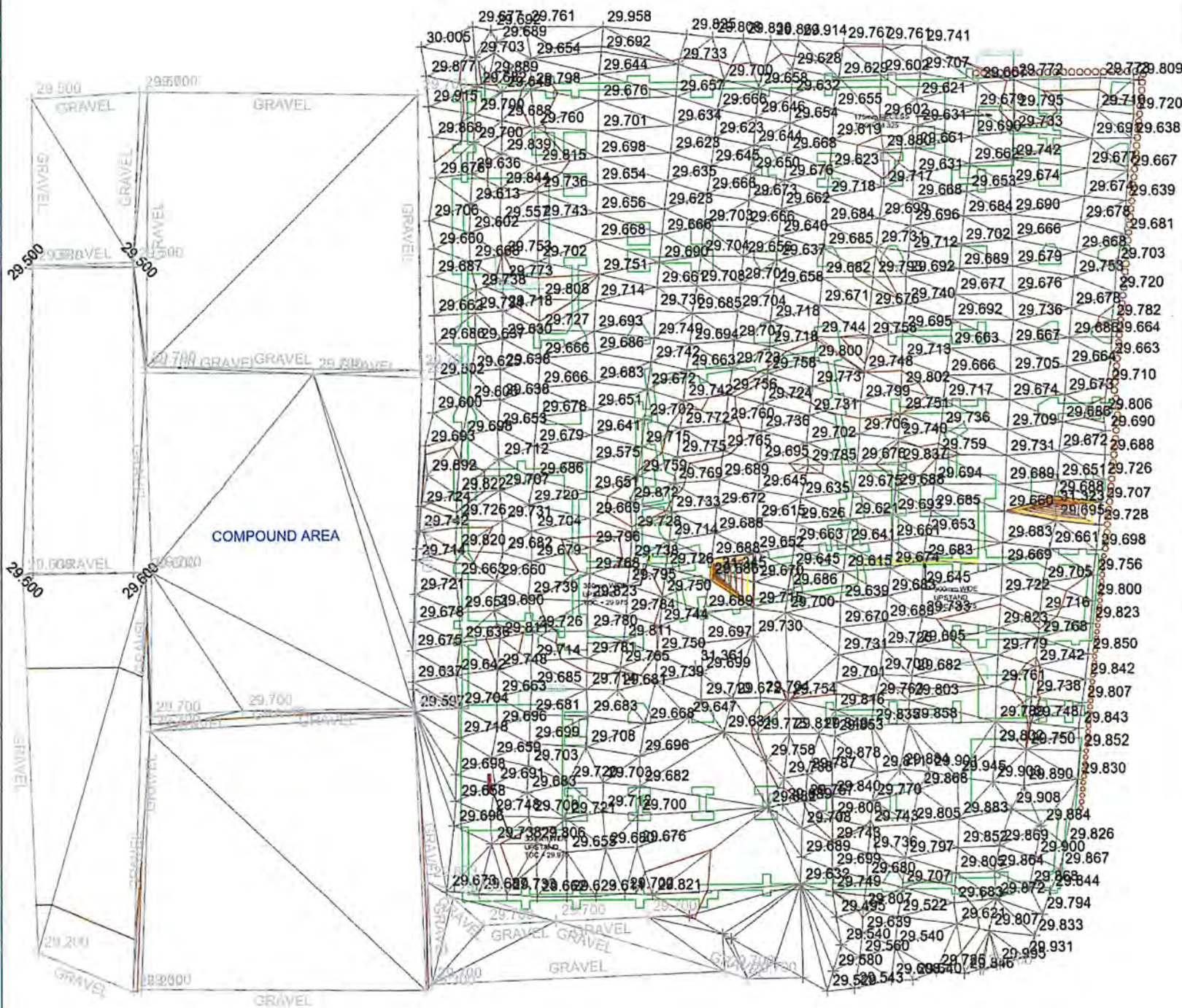
Notes:

LEVELS WITHIN BLDG FOOTPRINT
TAKEN BY MAYO ENGINEER
PRE-COMMENCEMENT

LEVELS IN COMPOUND & ACCESS
ROAD TAKEN FROM LK TARGET
REMEDATION LEVELS

Cut and fill figures only account for
works in and around the coloured areas
shown on the 'Design'

FOR INFORMATION ONLY



Revisions:

Rev.	Date	Description	By

Project:
MANCHESTER COLLEGE
CITY CENTRE

Drawing Title:
SITE ASAT 21-7-20

Drawing Ref No:
MMP 003

Drawn/Surveyed By:
AB

Date: 21/7/2020

Scale at A3:
1:500

Notes:

LEVELS WITHIN BLDG FOOTPRINT
TAKEN BY AERIAL DRONE SURVEY

ALL VOLUMES REPRESENT COMPACTED
MATERIALS, NO ADJUSTMENT HAS BEEN
MADE FOR BULKING UP/RE-COMPACTION

Cut and fill figures only account for
works in and around the contoured areas
shown on the 'Design'



VOLUME CHANGE SINCE SITE COMPLETED BY LK				
Volume	Value	Area	Value	Avg Depth
Cut	1282.52	Cut	3518.79	Cut
Fill	1018.25	Fill	4839.97	Fill
Balance	264.27	Null	0.06	0.210

FOR INFORMATION ONLY

Appendix B - Weekly Bulk Earthworks Records

Cut and Fill Diary Sheet Summary

W/E	Site Works		Import/Export	
	Dig	Backfill	Import*	Export
17-Jul	247	40		
	386	85		
		115		
24-Jul	134	54	24	280
	325	20		
31-Jul	166	100	263	167
	41	57		
07-Aug	139	61	119	0
	29			
	62	130		
	40	60		
	11	44		
14-Aug	43	133		
	225	51	161.25	0
	55	42		
	95	107		
	11	12		
21-Aug	110	197	55.5	0
	15	39		
	182			
28-Aug	24	28	126	104
	128	132		
	180			
04-Sep		59	0	0
		50		
11-Sep		72	45.5	88
	21	122		
	30	12.5		
	131	10		
		30		
18-Sep		108	33	0
25-Sep	120	86	34	0
Totals	2950	2056.5	861.25	639
NET Dig & Fill		893.5		

Summary Text

- 1) We have excavated 2950 cu.m for foundation works
- 2) We have re-used 2057 cu.m to backfill and surround cast foundations
- 3) This leaves a theoretical surplus on site of 893 cu.m
- 4) Which correlates with the concrete imported for the foundations of 861 cu.m
- 5) Of this 861 cu.m 639 was exported leaving 222 cu.m on site
- 6) From drawing MMP007 (by surveys) overall site volume (not including structural above ground concrete etc) has increased by 91 cu.m, leaving 131 cu.m unaccounted for over a site footprint of 4800 sq.m this equates to a depth of 27mm which can be accounted for by the general compaction of the mat under plant loadings as observed on site

* Import figures cover concrete brought on to site for below ground foundations/works which would replace excavated ground

MATERIALS CLASSIFICATIONS

MC01 – CLEAN SITE WON 6F5

MC02 – IMPORTED 6F5

MC03 – IMPORTED MOT TYPE 1

MC04 – SITE WON SPOIL SUITABLE FOR TESTING & POSSIBLE REUSE

MC05 – SITE WON SPOIL UNSUITABLE FOR REUSE (EG TOO WET)

MC06 – SITE PROCESSED 6F2 (GENERATED FROM MC04)

MC07 – SITE PROCESSED MOT TYPE 1 (GENERATED FROM MC04)

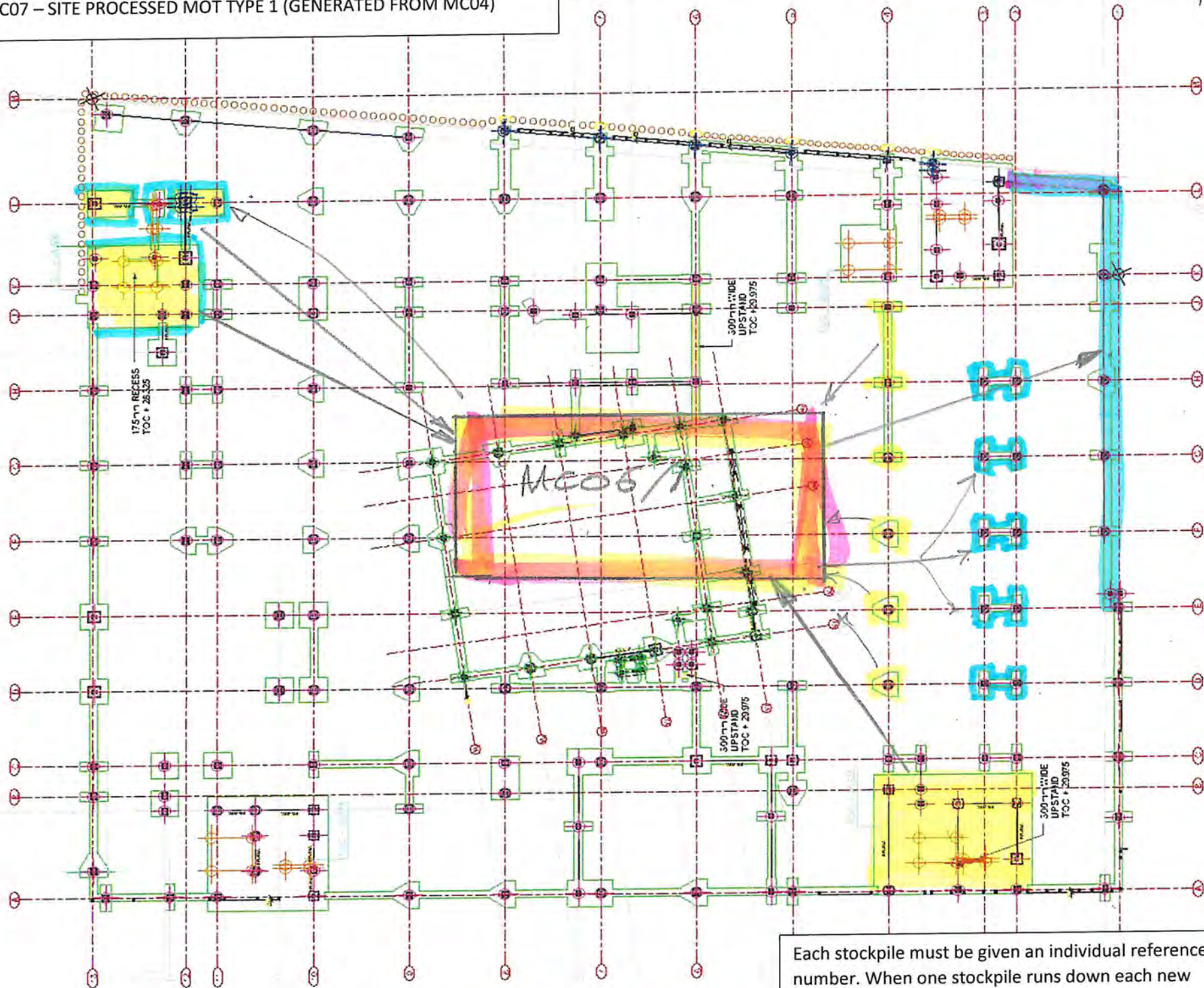
Manchester City Centre College BULK EARTHWORKS RECORD

Bulk Materials Import/Export

Imp/Exp	Type	Volume	Equiv Comp'd Vol
Exp	ARISINGS	2568	2140
Imp	CONC	443.57237	680

FROM MAYO STAIR
UP TO 17/7/20

SEE
COVER
SHEET
FOR WORK UP
TO 17/7/20.



NOTE:

(FIGURES IN BRACKETS REPRESENT COMPACTED VOLUMES)

CUT

Fill

Stockpile

Each stockpile must be given an individual reference number. When one stockpile runs down each new stockpile should be given the next sequential number. Format should be MCXX/SPYY Where MCXX is the material type as per the table above SPYY is the stockpile number

DATE:

W/E 17/7/20

COMPLETED BY:

AB

WEATHER AM

WEATHER PM

MOVEMENT OF MATERIALS ALREADY ON SITE

VOLUME	MATERIAL CLASS	FROM	TO	COMMENTS
(1247)		L-3/13 CAPS	MC06/1	
(386)		A/2-4 pile CAP	MC06/1	
(40)	ARISINGS	MC06/1	GL1 FOUNDN R/ALE	Backfill from Dig To Face of CORRIFORM
(85)		MC06/1	GL 2+3 pile CAPS	
(115)		MC06/1	L-3/13 CAPS	

Revisions:

Rev.	Date	Description	By

Project:
MANCHESTER COLLEGE
CITY CENTRE

Drawing Title:
AERIAL SURVEY 21/7/20 vs
FOUNDATION LAYOUT

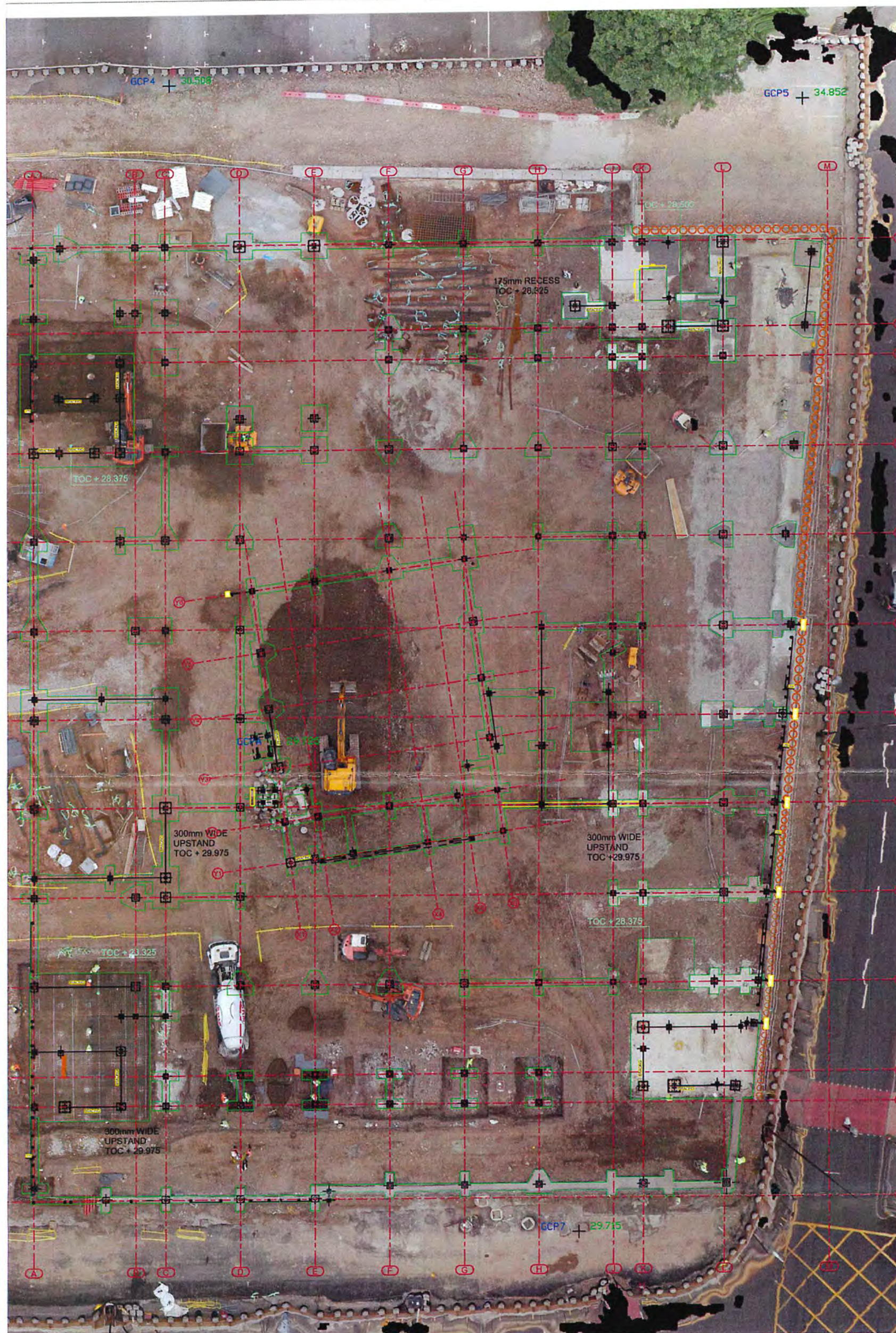
Drawing Ref No:
Site Record 007

Drawn/Surveyed By:
AB

Date: 22-2-2020

Scale at A3:
NTS

Notes:



FOR INFORMATION ONLY

MATERIALS CLASSIFICATIONS

MC01 – CLEAN SITE WON 6F5

MC02 – IMPORTED 6F5

MC03 – IMPORTED MOT TYPE 1

MC04 – SITE WON SPOIL SUITABLE FOR TESTING & POSSIBLE REUSE

MC05 – SITE WON SPOIL UNSUITABLE FOR REUSE (EG TOO WET)

MC06 – SITE PROCESSED 6F2 (GENERATED FROM MC04)

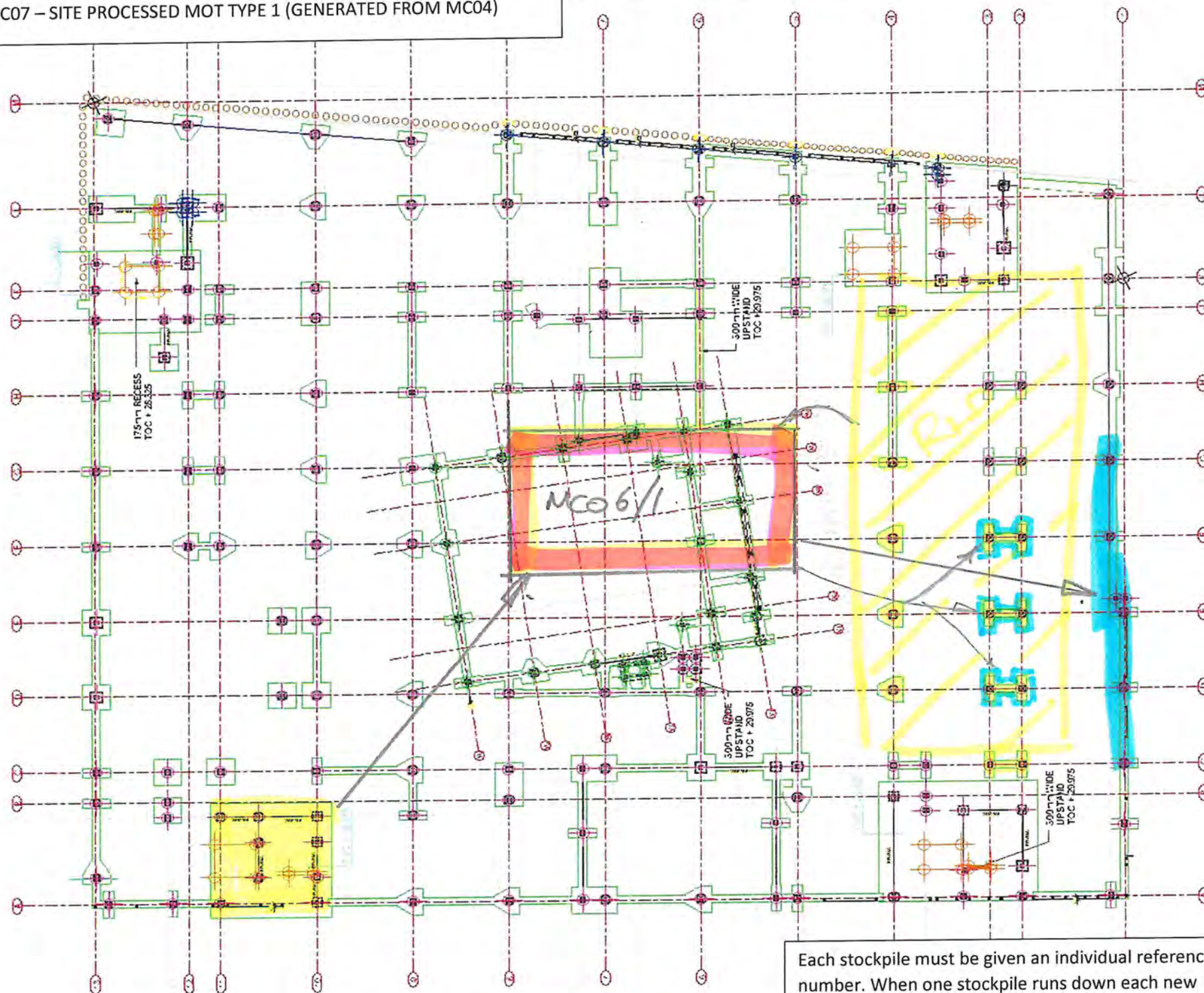
MC07 – SITE PROCESSED MOT TYPE 1 (GENERATED FROM MC04)

Manchester City Centre College

BULK EARTHWORKS RECORD

Bulk Materials Import/Export

Imp/Exp	Type	Volume	Equiv Comp'd Vol
EXP	6F2	336 m ³ .	(280 m ³ .)
IMP	CONC.	24 m ³	(24 m ³)
TBAL.			(256 m ³) ^{NET} Exg.



NOTE:

(FIGURES IN BRACKETS REPRESENT COMPACTED VOLUMES)

Each stockpile must be given an individual reference number. When one stockpile runs down each new stockpile should be given the next sequential number. Format should be MCXX/SPYY Where MCXX is the material type as per the table above SPYY is the stockpile number

DATE:

COMPLETED BY:

WEATHER AM

WEATHER PM

W/E 24/7/20.

AB.

MOVEMENT OF MATERIALS ALREADY ON SITE

VOLUME	MATERIAL CLASS	FROM	TO	COMMENTS
(54)	ARISINGAS.	MC06/1.	C-9/1 FANON SPOILS	
(134)		PC5	MC06/1.	
(325)		RLD	MC06/1.	
(20)		MC06/1.	GL 2+3 CAPS	FINISHED FROM LAST WK.

+385 ADDED TO STOCKPILE.



Project:
MANCHESTER COLLEGE CITY CENTRE

Date: 28-07-2020

Drawing Title:
AERIAL SURVEY vs FOUND'N PLAN

Scale at A3:
NTS

Drawing Ref No:
Site Record 010.0

Notes:
INFORMATION SHOULD BE USED FOR PROGRESS MONITORING ONLY. NOT TO BE USED TO MEASURE
ACCURACY OF AS-BUILT INDIVIDUAL ELEMENTS.

Drawn/Surveyed
By: AB

FOR INFORMATION ONLY





Banks Engineering And Management Ltd

Revisions:

Rev. Date Description By

Project:
MANCHESTER COLLEGE
CITY CENTRE

Drawing Title:
SITE AS AT 28-7-20

Drawing Ref No:
MMP 004

Drawn/Surveyed By:
AB

Date: 28/7/2020

Scale at A3:
1:500

Notes:

LEVELS WITHIN BLDG FOOTPRINT
TAKEN BY AERIAL DRONE SURVEY

ALL VOLUMES REPRESENT
COMPACTED MATERIALS,
NO ADJUSTMENT HAS BEEN MADE
FOR BULKING UP/RE-COMPACTION

Cut and fill figures only account for
works in and around the contoured areas
shown on the 'Design'

ENGINEERING
CHECKED TO
CONFIRM
ASSUMED VOLUME
EXPORT IS
ACCURATE

VOLUME CHANGE TO 21-7-20

Volume	Value	Area	Value
Cut	1188.20	Cut	3780.87
Fill	1219.89	Fill	3212.82
Balance	-31.69	Null	0.06

SUMMARY:

21/7 SURVEY BALANCE WAS 264.27 CUT
NET EXPORT THIS WEEK 256 m³
8 m³ CUT

NEGLIGIBLE ERROR ✓ OK

FOR INFORMATION ONLY

MATERIALS CLASSIFICATIONS

MC01 – CLEAN SITE WON 6F5

MC02 – IMPORTED 6F5

MC03 – IMPORTED MOT TYPE 1

MC04 – SITE WON SPOIL SUITABLE FOR TESTING & POSSIBLE REUSE

MC05 – SITE WON SPOIL UNSUITABLE FOR REUSE (EG TOO WET)

MC06 – SITE PROCESSED 6F2 (GENERATED FROM MC04)

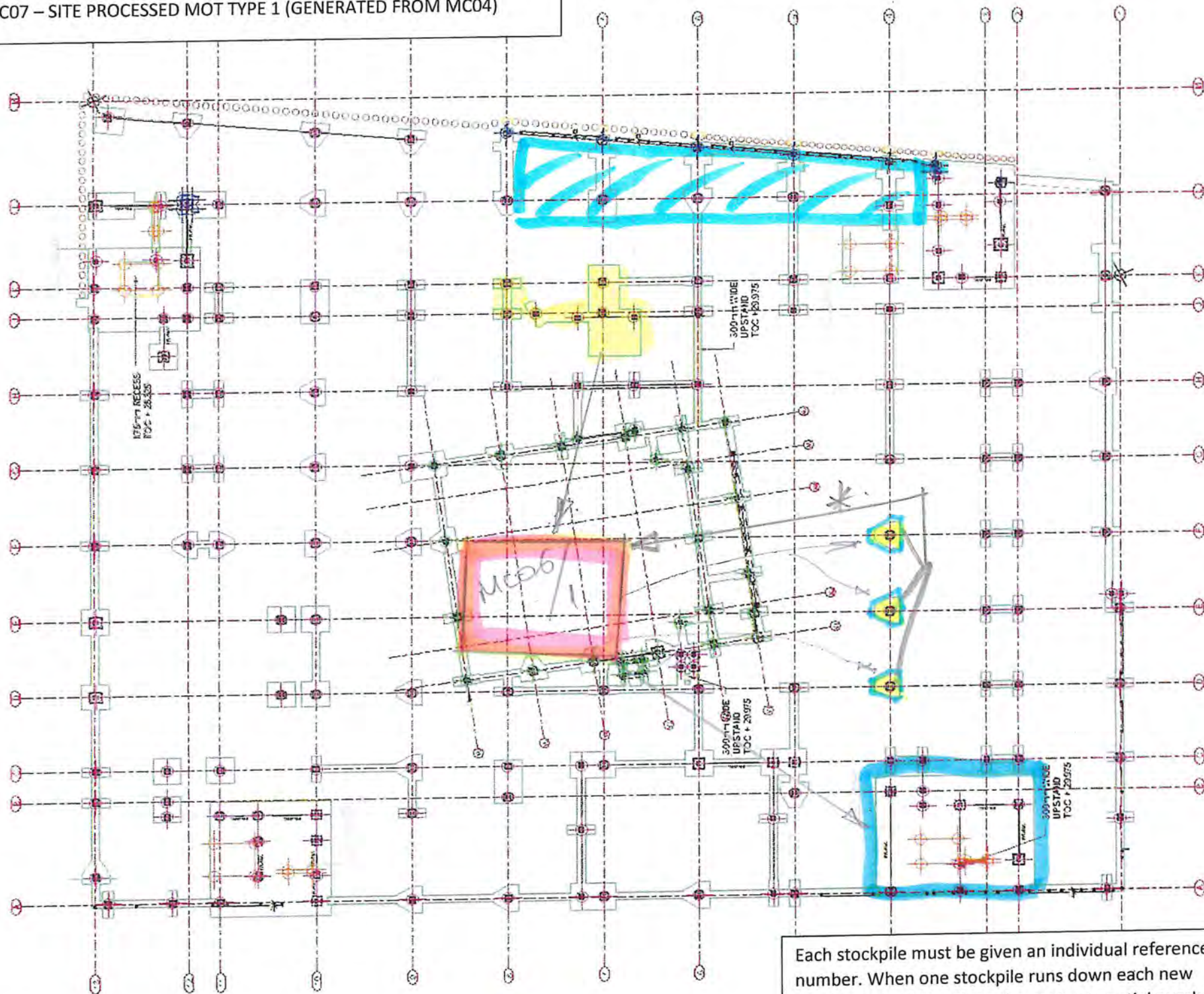
MC07 – SITE PROCESSED MOT TYPE 1 (GENERATED FROM MC04)

Manchester City Centre College

BULK EARTHWORKS RECORD

Bulk Materials Import/Export

Imp/Exp	Type	Volume	Equiv Comp'd Vol
Exp	6F2	200m ³	(167)m ³
Imp	Conc	263 m ³	(263)m ³
Bac.			(+96)m ³



NOTE:

(FIGURES IN BRACKETS REPRESENT COMPACTED VOLUMES)

Cor

File

Stockpile

Each stockpile must be given an individual reference number. When one stockpile runs down each new stockpile should be given the next sequential number. Format should be MCXX/SPYY Where MCXX is the material type as per the table above SPYY is the stockpile number

DATE:

w/e 31/7/20

COMPLETED BY:

AB.

WEATHER AM

WEATHER PM

MOVEMENT OF MATERIALS ALREADY ON SITE

VOLUME	MATERIAL CLASS	FROM	TO	COMMENTS
(100)	ARISWAS.	MC06/1.	A/2-4 pile cap.	REDUCED DUE TO BROKEN PILE REBAR.
(166)		GL3-K/7-8.	MC06/1.	
(57)		MC06/1.	GL4/D-F.	
(61)		D-F/3.	MC06/1.	

MC07 – SITE PROCESSED MOT TYPE 1 (GENERATED FROM MC04)

-130)	6F2	PLD	PERIOD LOVES
-------	-----	-----	--------------

MATERIALS CLASSIFICATIONS

MC01 – CLEAN SITE WON 6F5

MC02 – IMPORTED 6F5

MC03 – IMPORTED MOT TYPE 1

MC04 – SITE WON SPOIL SUITABLE FOR TESTING & POSSIBLE REUSE

MC05 – SITE WON SPOIL UNSUITABLE FOR REUSE (EG TOO WET)

MC06 – SITE PROCESSED 6F2 (GENERATED FROM MC04)

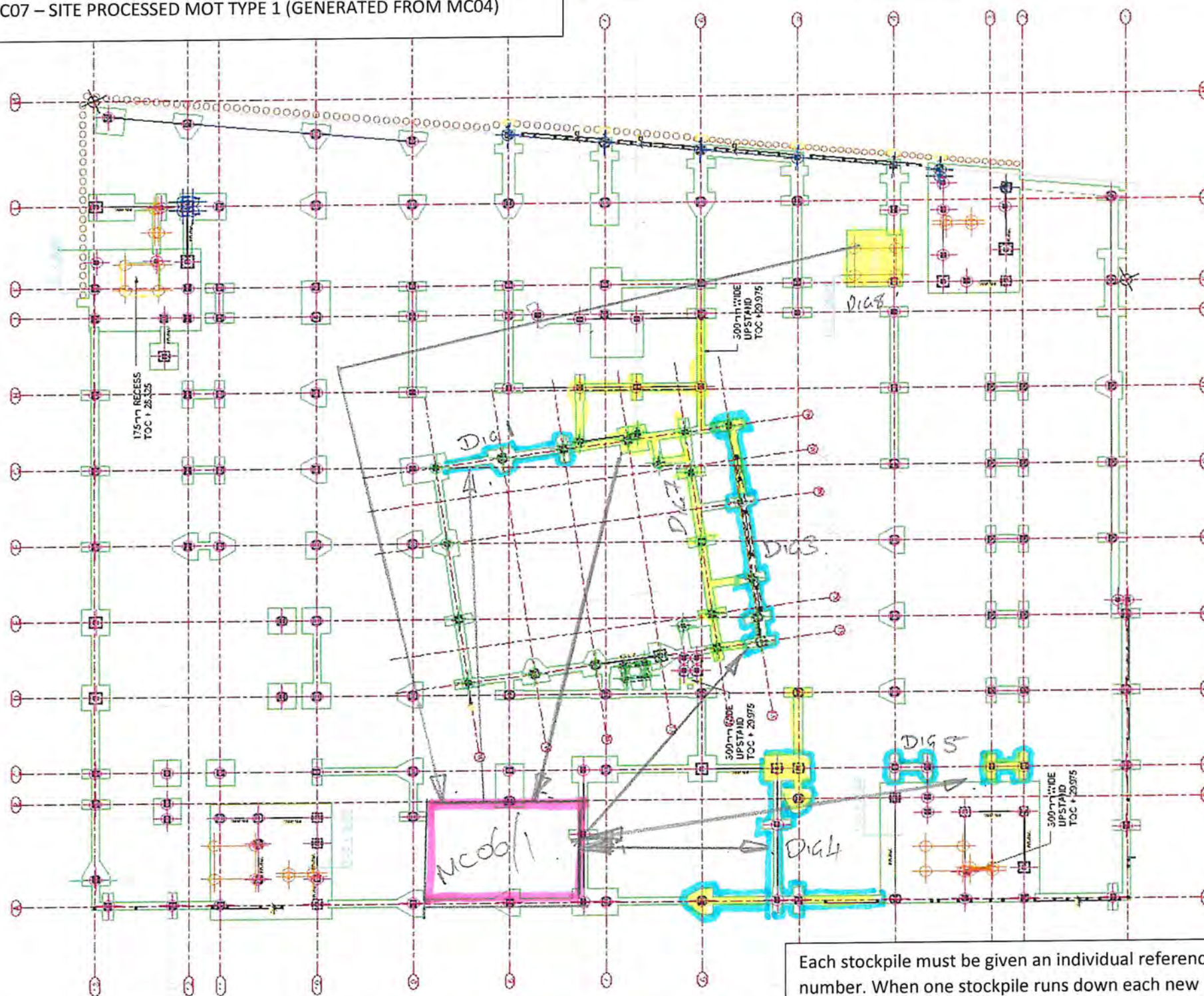
MC07 – SITE PROCESSED MOT TYPE 1 (GENERATED FROM MC04)

Manchester City Centre College

BULK EARTHWORKS RECORD

Bulk Materials Import/Export

Imp/Exp	Type	Volume	Equiv Comp'd Vol
Imp	CONC.	161.25	(161.25)
Exp			



NOTE:

(FIGURES IN BRACKETS REPRESENT COMPACTED VOLUMES)

CUT
FILL
STOCKPILE

Each stockpile must be given an individual reference number. When one stockpile runs down each new stockpile should be given the next sequential number. Format should be MCXX/SPYY Where MCXX is the material type as per the table above SPYY is the stockpile number

DATE: w/r. 14/8/20	COMPLETED BY: A.B	WEATHER AM _____	WEATHER PM _____
-----------------------	----------------------	---------------------	---------------------

MOVEMENT OF MATERIALS ALREADY ON SITE

VOLUME	MATERIAL CLASS	FROM	TO	COMMENTS
-(51)	ARISINGS.	MC06/1	DIG 1	BACKFILL SURROUND
+(225)		DIG 7	MC06/1	
+(55)		DIG 8	MC06/1	UNCOVER BASE FOR LIFT PIT INSTALL.
-(42)		MC06/1	DIG 3	BACKFILL SURROUND.
+(95)		DIG 4	MC06/1	CONTINUED FROM PREVIOUS WEEK.
-(107)		MC06/1	DIG 4	BACKFILL SURROUND.
+(11)		DIG 5	MC06/1	RE-DIG
-(12)		MC06/1	DIG 5	BACKFILL SURROUND.

MATERIALS CLASSIFICATIONS

MC01 – CLEAN SITE WON 6F5

MC02 – IMPORTED 6F5

MC03 – IMPORTED MOT TYPE 1

MC04 – SITE WON SPOIL SUITABLE FOR TESTING & POSSIBLE REUSE

MC05 – SITE WON SPOIL UNSUITABLE FOR REUSE (EG TOO WET)

MC06 – SITE PROCESSED 6F2 (GENERATED FROM MC04)

MC07 – SITE PROCESSED MOT TYPE 1 (GENERATED FROM MC04)

Manchester City Centre College

BULK EARTHWORKS RECORD

Bulk Materials Import/Export

Imp/Exp	Type	Volume	Equiv Comp'd Vol
IMP	CONC	55.5	(55.5)
EXP			



DATE: w/r
21/8/2020

COMPLETED BY:
A. BANKS.

WEATHER AM

WEATHER PM

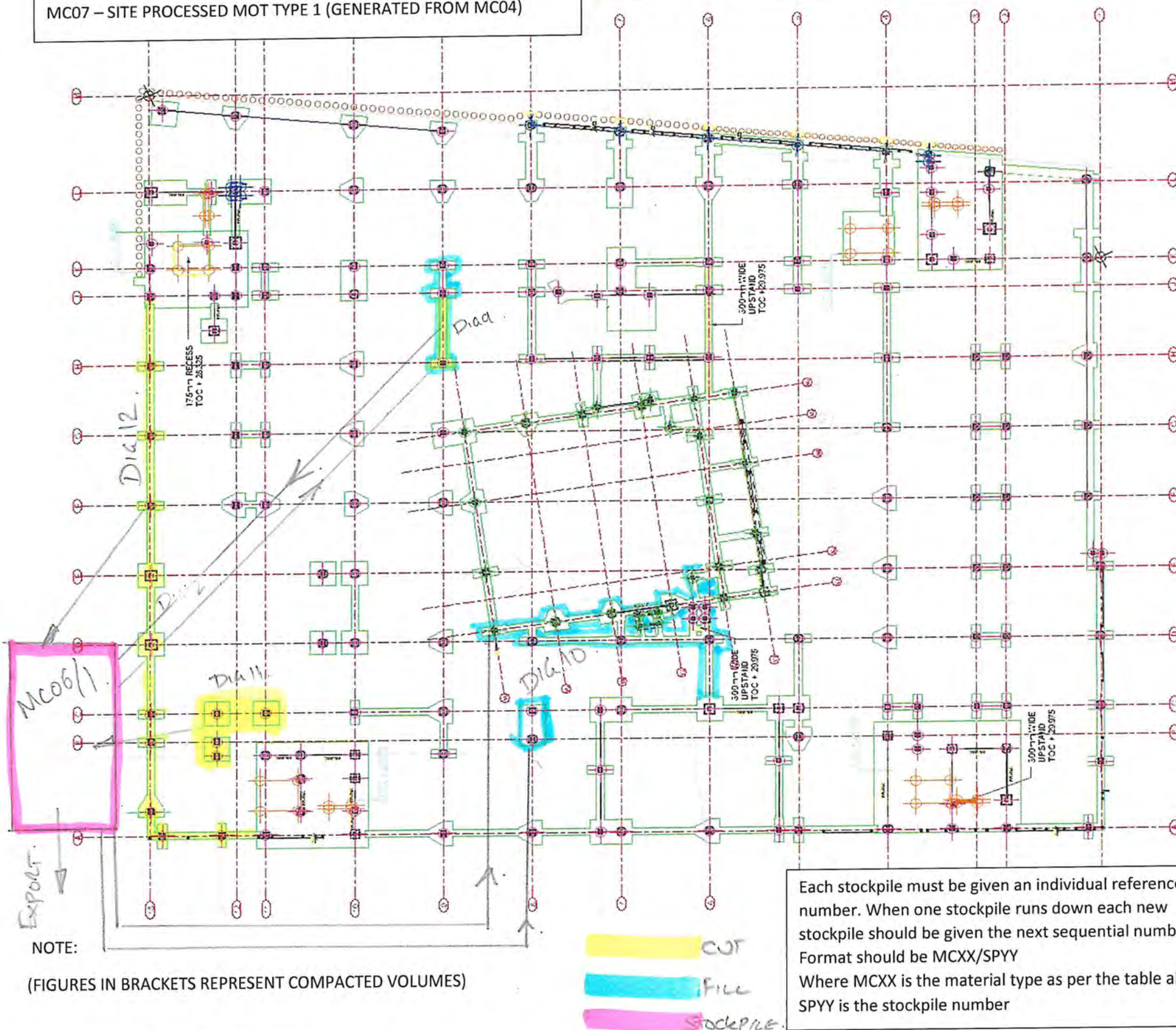
MOVEMENT OF MATERIALS ALREADY ON SITE

VOLUME	MATERIAL CLASS	FROM	TO	COMMENTS
(197) +(110) -(39) +(15) +(182)	ASIS/AS.	MC06/1 Dia 8 MC06/1 Dia 9 Dia 10	Dia 7 BACKFILL MC06/1 (RELOCATED) Dia 8 MC06/1 (RELOCATED) MC06/1 (RELOCATED)	SURROUND TO FOUNDATIONS SURROUND TO FOUNDATIONS

MC07 – SITE PROCESSED MOT TYPE 1 (GENERATED FROM MC04)

BULK EARTHWORKS RECORD

Bulk Materials Import/Export			
Imp/Exp	Type	Volume	Equiv Comp'd Vol
EXP	UNSUITABLE MATE.	13 LOADS.	(104)
IMP	CONC.		(126)



DATE: Wk 28/8/2020

COMPLETED BY:

A.B

WEATHER AM

WEATHER PM

MOVEMENT OF MATERIALS ALREADY ON SITE

VOLUME	MATERIAL CLASS	FROM	TO	COMMENTS
+ (24).	ARIS WAS.	Dia 9	MC06/1.	FINISH DIA.
- (28).		MC06/1.	Dia 9.	SURROUND TO FOUNDATIONS.
- (132)		MC06/1.	Dia 10.	FOUNDATION SURROUND.
+ (128)		Dia 11	MC06/1.	
+ (180)		Dia 12	MC06/1.	

MATERIALS CLASSIFICATIONS

- MC01 – CLEAN SITE WON 6F5
- MC02 – IMPORTED 6F5
- MC03 – IMPORTED MOT TYPE 1
- MC04 – SITE WON SPOIL SUITABLE FOR TESTING & POSSIBLE REUSE
- MC05 – SITE WON SPOIL UNSUITABLE FOR REUSE (EG TOO WET)
- MC06 – SITE PROCESSED 6F2 (GENERATED FROM MC04)
- MC07 – SITE PROCESSED MOT TYPE 1 (GENERATED FROM MC04)

Manchester City Centre College

BULK EARTHWORKS RECORD

Bulk Materials Import/Export

Imp/Exp	Type	Volume	Equiv Comp'd Vol
IMP	CONC.	821	Ø
EXP	UNUSABLE ARISING		Ø



NOTE:

(FIGURES IN BRACKETS REPRESENT COMPACTED VOLUMES)

CUT
FILL
STOCKPILE

Each stockpile must be given an individual reference number. When one stockpile runs down each new stockpile should be given the next sequential number. Format should be MCXX/SPYY Where MCXX is the material type as per the table above SPYY is the stockpile number

DATE:

W/e 4/9/20

COMPLETED BY:

A.B.

WEATHER AM

WEATHER PM

MOVEMENT OF MATERIALS ALREADY ON SITE

VOLUME	MATERIAL CLASS	FROM	TO	COMMENTS
(59)	ARISING	MC06/1	D.C. 12	PARTIAL B/FILL TO FOUNDATIONS
-(50)	ARISING	MC06/1	A/8 TO N/6	GENERAL FILL - TOP UP LEVELS.

MATERIALS CLASSIFICATIONS

MC01 – CLEAN SITE WON 6F5

MC02 – IMPORTED 6F5

MC03 – IMPORTED MOT TYPE 1

MC04 – SITE WON SPOIL SUITABLE FOR TESTING & POSSIBLE REUSE

MC05 – SITE WON SPOIL UNSUITABLE FOR REUSE (EG TOO WET)

MC06 – SITE PROCESSED 6F2 (GENERATED FROM MC04)

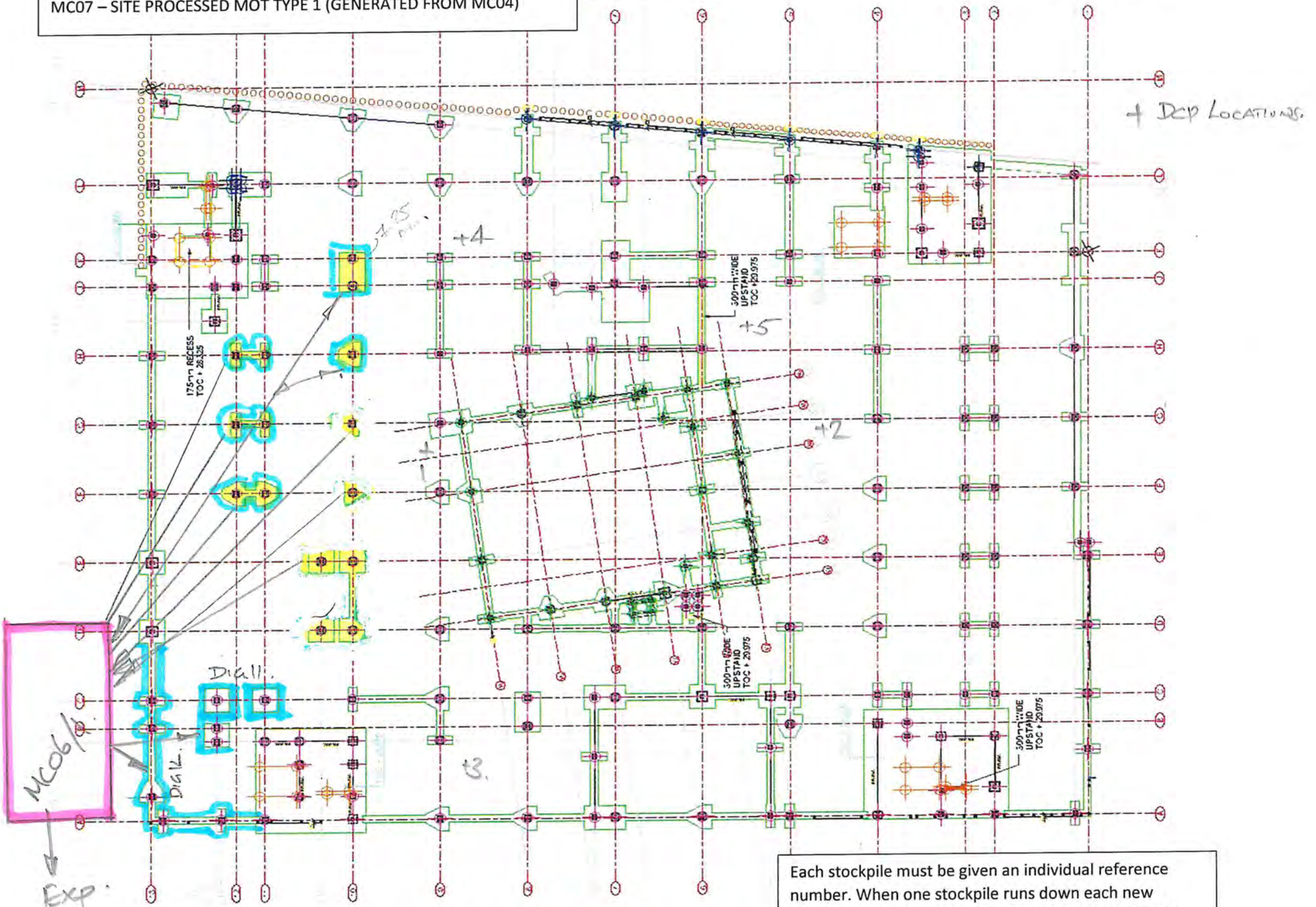
MC07 – SITE PROCESSED MOT TYPE 1 (GENERATED FROM MC04)

Manchester City Centre College

BULK EARTHWORKS RECORD

Bulk Materials Import/Export

Imp/Exp	Type	Volume	Equiv Comp'd Vol
Imp.	CONC.	45.5 m ³	45.5 m ³
Exp.	UNSUITABLE SPOIL	11 LOADS.	(88)



NOTE:

(FIGURES IN BRACKETS REPRESENT COMPACTED VOLUMES)

Each stockpile must be given an individual reference number. When one stockpile runs down each new stockpile should be given the next sequential number. Format should be MCXX/SPYY Where MCXX is the material type as per the table above SPYY is the stockpile number

DATE: W/e 11/9/20	COMPLETED BY: AB	WEATHER AM	WEATHER PM
-------------------	------------------	------------	------------

MOVEMENT OF MATERIALS ALREADY ON SITE

VOLUME	MATERIAL CLASS	FROM	TO	COMMENTS
-(72)	ARISING	MC06/1	DIA 12.	FOUNDATION SURROUND
-(122)	ARISING	MC06/1	DIA 11.	FOUNDATION SURROUND
+(2)	ARISING	F/11+12	MC06/1	
-(12.5)	ARISING	MC06/1	F/11+12	FOUNDATION SURROUND
(30)	ARISING	Q+H/11+12	MC06/1	
-(10)	ARISING	MC06/1	Q+H/11+12	FOUND SURROUND
-(13)	ARISING	GL10 FOUNDS.	MC06/1	
-(30)	ARISING	MC06/1	GLH+D/10	FOUND SURROUND

MC07 – SITE PROCESSED MOT TYPE 1 (GENERATED FROM MC04)

VOLUME	MATERIAL CLASS	FROM	TO	COMMENTS
(108)	ARISING.	MC06/1	GL10 FOUND	

MATERIALS CLASSIFICATIONS

MC01 – CLEAN SITE WON 6F5

MC02 – IMPORTED 6F5

MC03 – IMPORTED MOT TYPE 1

MC04 – SITE WON SPOIL SUITABLE FOR TESTING & POSSIBLE REUSE

MC05 – SITE WON SPOIL UNSUITABLE FOR REUSE (EG TOO WET)

MC06 – SITE PROCESSED 6F2 (GENERATED FROM MC04)

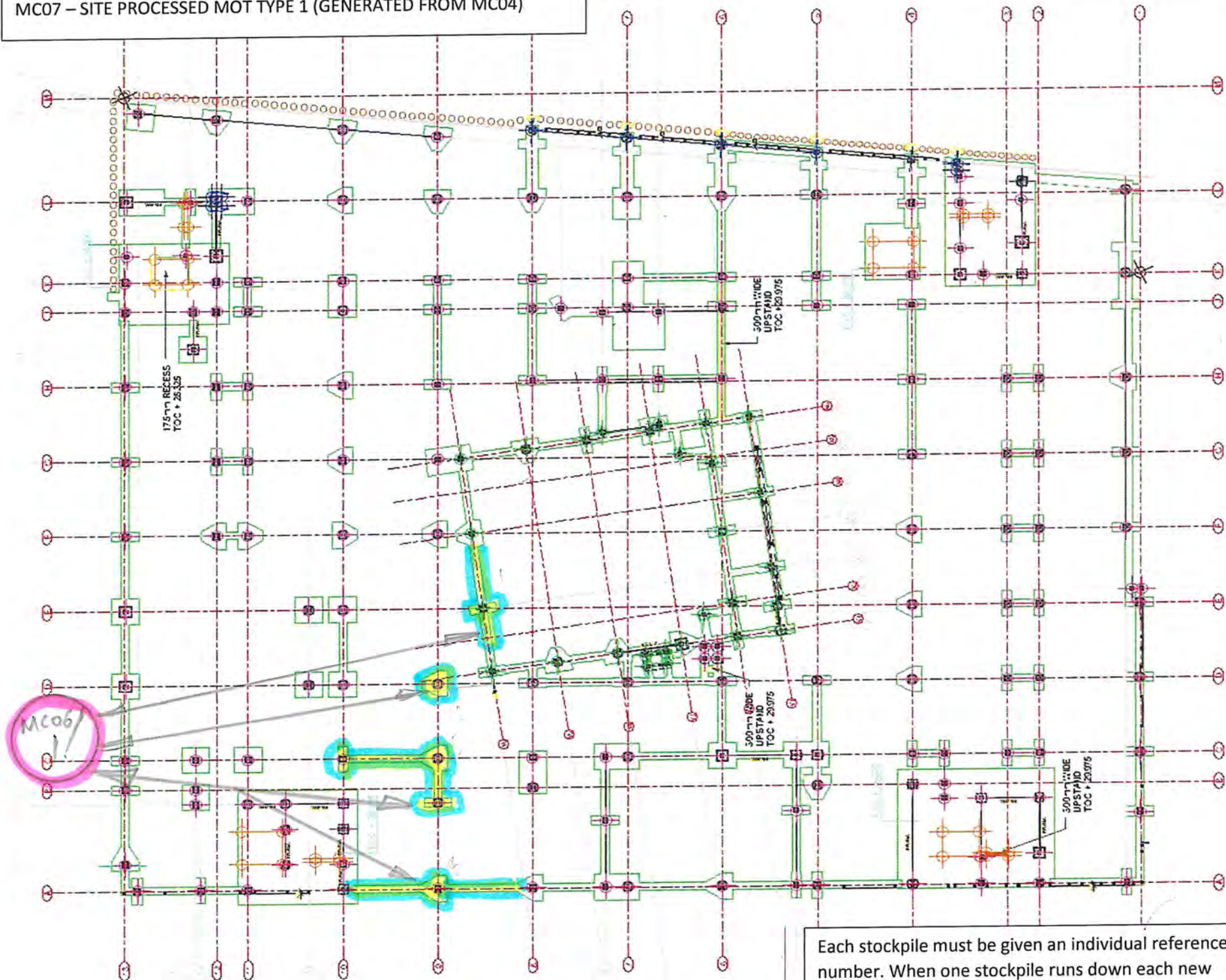
MC07 – SITE PROCESSED MOT TYPE 1 (GENERATED FROM MC04)

Manchester City Centre College

BULK EARTHWORKS RECORD

Bulk Materials Import/Export

Imp/Exp	Type	Volume	Equiv Comp'd Vol
Imp	Conc.	34	34



NOTE:

(FIGURES IN BRACKETS REPRESENT COMPACTED VOLUMES)

CUT
FILL
STOCKPILE

Each stockpile must be given an individual reference number. When one stockpile runs down each new stockpile should be given the next sequential number. Format should be MCXX/SPYY Where MCXX is the material type as per the table above SPYY is the stockpile number

DATE:

W/e 25/9/20

COMPLETED BY:

[Signature]

WEATHER AM

[Signature]

WEATHER PM

[Signature]

MOVEMENT OF MATERIALS ALREADY ON SITE

VOLUME	MATERIAL CLASS	FROM	TO	COMMENTS
(120)	ARISINGS	FOUNDATIONS.	MC06/1	
(86)	ARISINGS	MC06/1.	FOUNDATIONS.	BACKFILL SURROUND.
				FOUNDATION WORKS COMPLETED NO FURTHER SUBSTANTIAL GENERATION/ RE-USE OF ARISINGS IS EXPECTED

Appendix C

Variation in Cut and Fill Balance due to design change around stub columns

Due to a design change (details attached) the estimated overall cut/fill balance of the under-slab works increased from a projection of 109 m³ to 683 m³ of fill:

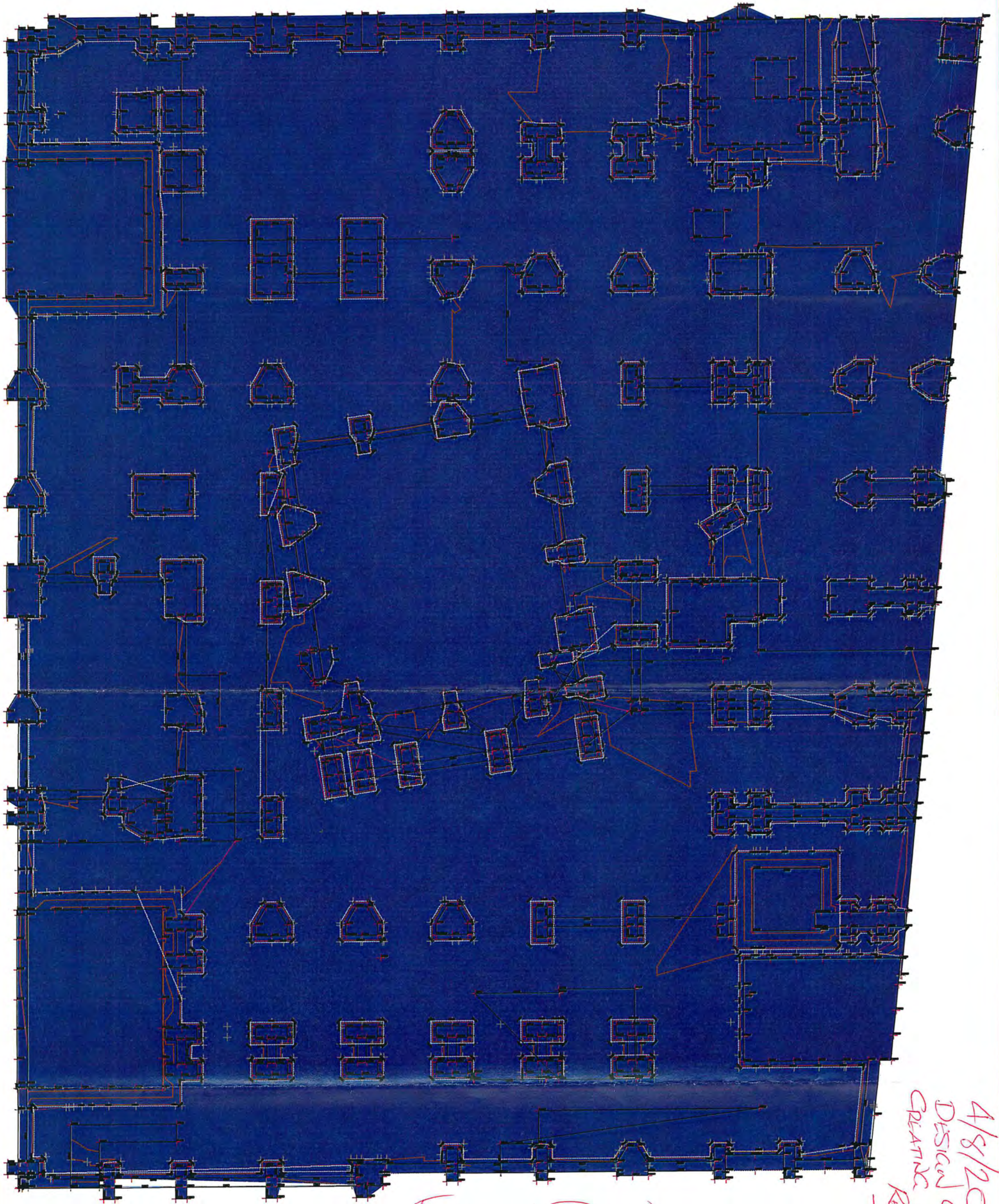
Sheet 1 & 2 – Show cut and fill figures between the original design formation and the site survey taken on 3/8/2020, showing a balance of 109m³ fill, which could be generated from the remaining foundations yet to be dug

Sheet 3 – Shows the design change, highlighted in red pen

Sheet4 – Shows the revised cut and fill balance of the 3/8/2020 survey against the new design, with a balance of 683m³ fill which is more than will be generated from foundation excavation alone.

Sheet 5 – Isopachyte highlighting the areas where this new additional fill will be required. Much of it is around the large lift pit bases which will not be backfilled until after the steel frame is complete.

Figures are purely intended to highlight the new requirements and the expectation that, rather than stockpiling approx. 300 m³ of arisings for later re-filling around the lift pits, all arisings would now be used up before the main foundations were completed and further material would need to be imported to backfill around the lift pits.



ORIGINAL FORMATION DESIGN.

Sht 1

PRISM VOLUMES : PROJECTION TO 03-08-20 2M POINT GRID			
Group	Volumes		
	Cut/Material	Fill/Void	Balance
formation plane	613.67	722.68	-109.01
Total	613.67	722.68	-109.01

4/8/20
DESIGN CHANGE
CREATING ADDITIONAL FILL
REQUIREMENT



Banks Engineering And Management Ltd

Revisions:

Rev.	Date	Description	By

Rev. Date Description By

Project:
MANCHESTER COLLEGE
CITY CENTRE

Drawing Title:
SITE AS AT 03-08-20

Drawing Ref No:
MMP 005

Drawn/Surveyed By:
AB

Date: 03/08/2020

Scale at A3:
1:500

Notes:

LEVELS WITHIN BLDG FOOTPRINT
TAKEN BY AERIAL DRONE SURVEY

ALL VOLUMES REPRESENT
COMPACTED MATERIALS,
NO ADJUSTMENT HAS BEEN MADE
FOR BULKING UP/RE-COMPACTION

Cut and fill figures only account for
works in and around the contoured areas
shown on the 'Design'

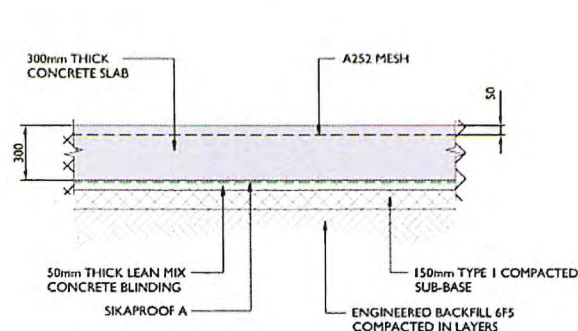
FOR INFORMATION ONLY

S472

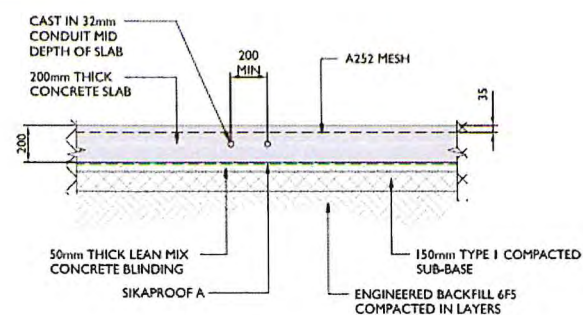
PRISM VOLUMES : PROJECTION TO DESIGN total formation			
Group	Volumes		
	Cut/Material	Fill/Void	Balance
Unassigned	613.67	722.68	-109.01
Total	0.00	0.00	0.00

NOTE

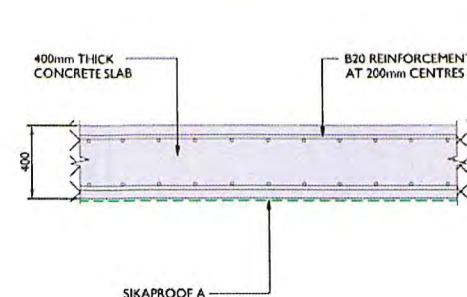
1. DO NOT SCALE FROM THIS DRAWING. WORK FROM FIGURED DIMENSIONS ONLY. ALL DIMENSIONS ARE IN MILLIMETRES AND ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM U.N.O.
2. NO DEVIATION FROM THE DETAILS SHOWN ON THIS DRAWING WILL BE ALLOWED WITHOUT THE PRIOR PERMISSION IN WRITING.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS AND SPECIALIST DRAWINGS AND SPECIFICATIONS.
4. ALL WATERPROOFING TO ARCHITECT'S DETAILS.



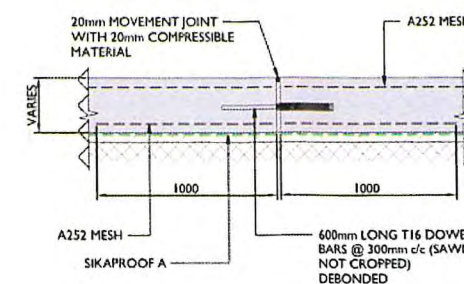
**TYPICAL 300mm THICK SLAB
CONSTRUCTION DETAIL**
SCALE 1:20



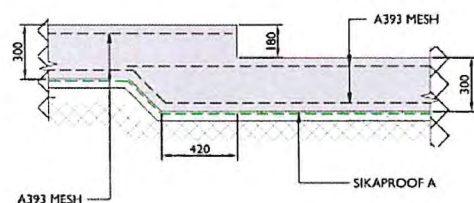
**TYPICAL 200mm THICK SLAB
CONSTRUCTION DETAIL**
SCALE 1:20



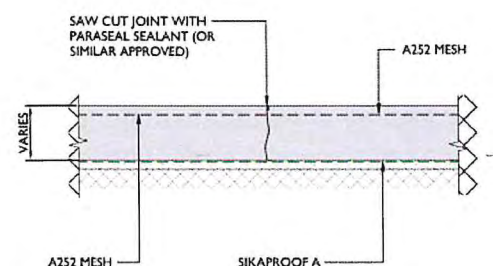
**TYPICAL 400mm THICK SLAB
CONSTRUCTION DETAIL**
SCALE 1:20



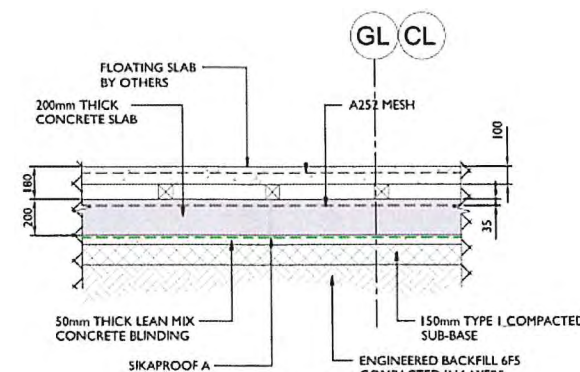
MOVEMENT JOINT DETAIL
SCALE 1:20



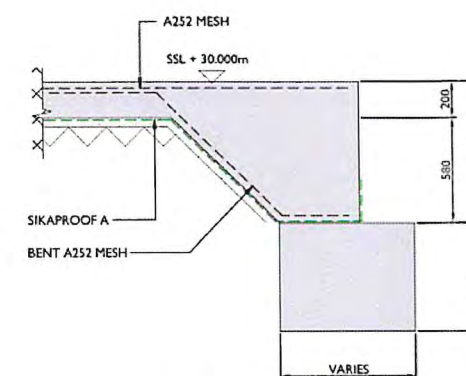
TYPICAL SLAB STEP DETAIL
SCALE 1:20



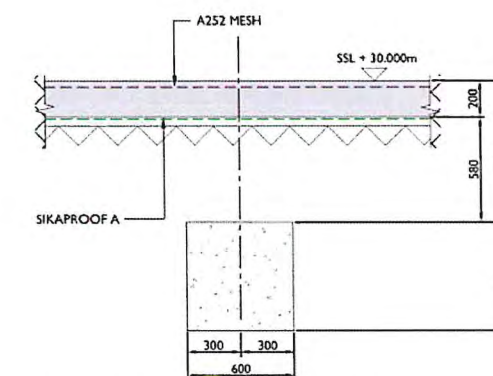
SAW CUT JOINT DETAIL
SCALE 1:20



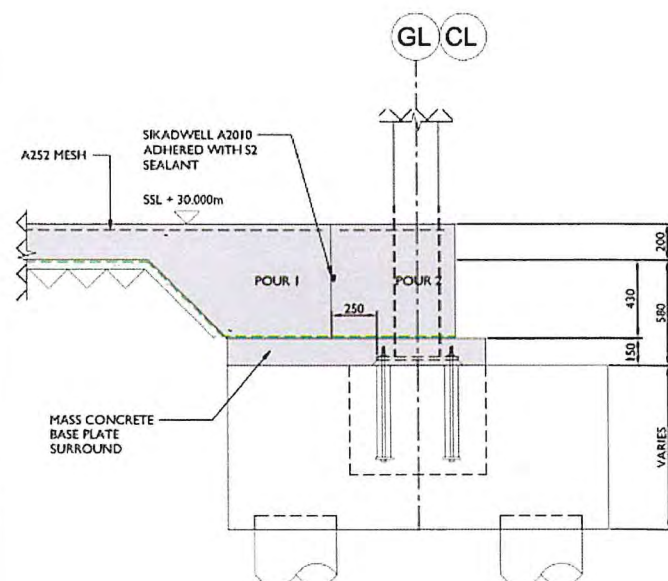
**TYPICAL FLOATING SLAB
CONSTRUCTION DETAIL**
SCALE 1:20



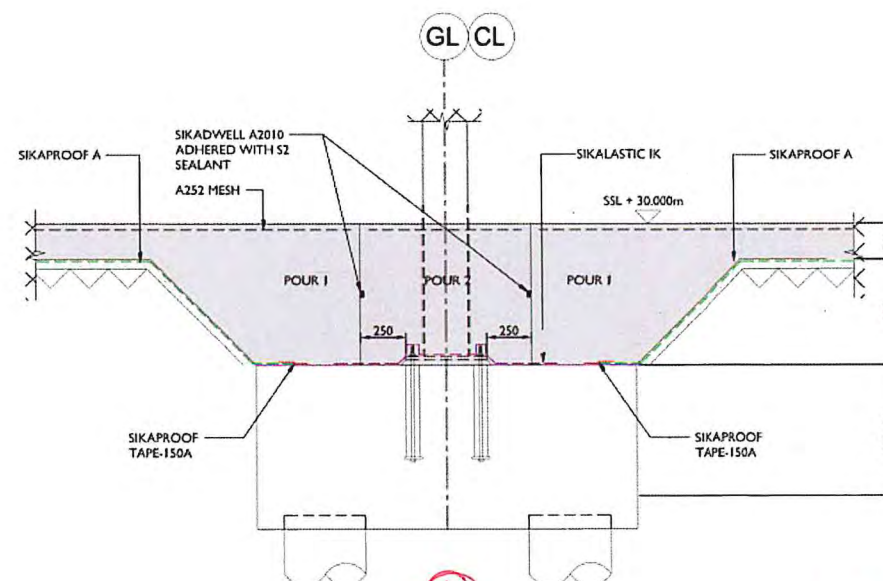
**TYPICAL SECTION THROUGH
PERIMETER GROUND BEAM**
SCALE 1:20



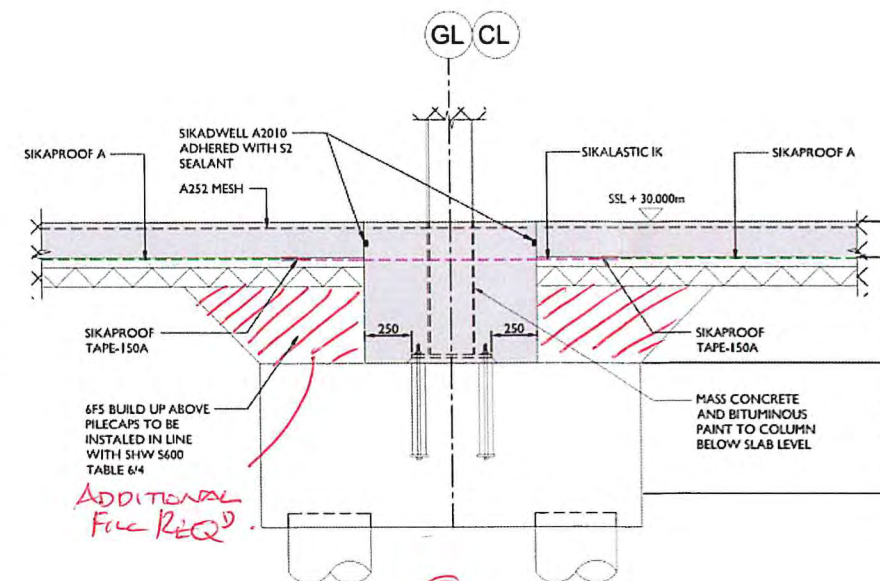
**TYPICAL SECTION THROUGH
INTERNAL GROUND BEAM**
SCALE 1:20



**TYPICAL SECTION THROUGH
PERIMETER PILECAP**
SCALE 1:20



**TYPICAL SECTION THROUGH
INTERNAL PILECAP**
SCALE 1:20



**TYPICAL COLUMN INFILL
WITHOUT THICKENING OPTION**
SCALE 1:20

4/8/20
A Replaced with B on
All Internal Column positions
outside A08 type waterproofing
(CL 4/4 to L/13).

SHT 3

POI	MINOR AMENDMENTS	LLM	MM	JP	28.07.2020
POI	ISSUED FOR CONSTRUCTION	LLM	MM	JP	18.06.2020
REV	DESCRIPTION	BY	CHK	APP	DATE

JP Structural Design

PURPOSE OF ISSUE: **FOR CONSTRUCTION** STATUS: **A5**

PROJECT: **THE MANCHESTER COLLEGE**

TITLE: **GROUND FLOOR SLAB DETAILS**

CLIENT: **WILLMOTT DIXON**

DRAWN BY: LLM	CHECKED BY: MM	APPROVED BY: JP
DATE: 18.06.2020	SCALE: (@ A1)	PROJECT NUMBER: 11035
DRAWING NUMBER: CC-JPS-ZZ-XX-DR-C-0103	REV: P01	



Banks Engineering And Management Ltd

Revisions:

A	3/8/20	New stub column design	AB
Rev.	Date	Description	By

Project:
MANCHESTER COLLEGE
CITY CENTRE

Drawing Title:
SITE AS AT 03-08-20

Drawing Ref No:
MMP 005

Drawn/Surveyed By:
AB

Date: 03/08/2020

Scale at A3:
1:500

Notes:

LEVELS WITHIN BLDG FOOTPRINT
TAKEN BY AERIAL DRONE SURVEY

ALL VOLUMES REPRESENT
COMPACTED MATERIALS,
NO ADJUSTMENT HAS BEEN MADE
FOR BULKING UP/RE-COMPACTION

Cut and fill figures only account for
works in and around the contoured areas
shown on the 'Design'

VOL CHANGE FROM 28-7-20

Volume	Value	Area	Value
Cut	1361.90	Cut	4650.52
Fill	724.66	Fill	3101.17
Balance	637.24	Null	0.02

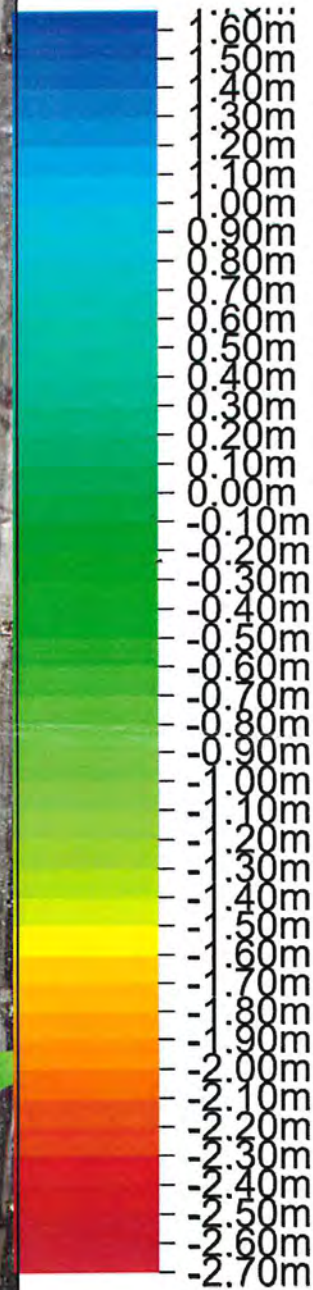
VOL FROM 03-08 SURVEY TO UNDERSIDE OF TYPE 1

Group	Depth	Volumes		
		Cut/Material	Fill/Void	Balance
Unassigned	0.0000	345.28	1029.21	-683.93
Total		0.00	0.00	0.00

ALLOWING FOR CONCRETE YET TO BE CAST
FILL VOLUME = -683.93 + 64 = 619.93 CU.M REQ'D FILL

FOR INFORMATION ONLY

547
A



Banks Engineering And Management Ltd

Revisions:

A	3/8/20	New stub column design	By
Rev.	Date	Description	By

Project:
MANCHESTER COLLEGE
CITY CENTRE

Drawing Title:
SITE AS AT 03-08-20
ISOPACH TO SLAB FORM'N

Drawing Ref No:
MMP 005A

Drawn/Surveyed By:
AB

Date: 03/08/2020

Scale at A3:
1:500

Notes:

LEVELS WITHIN BLDG FOOTPRINT
TAKEN BY AERIAL DRONE SURVEY

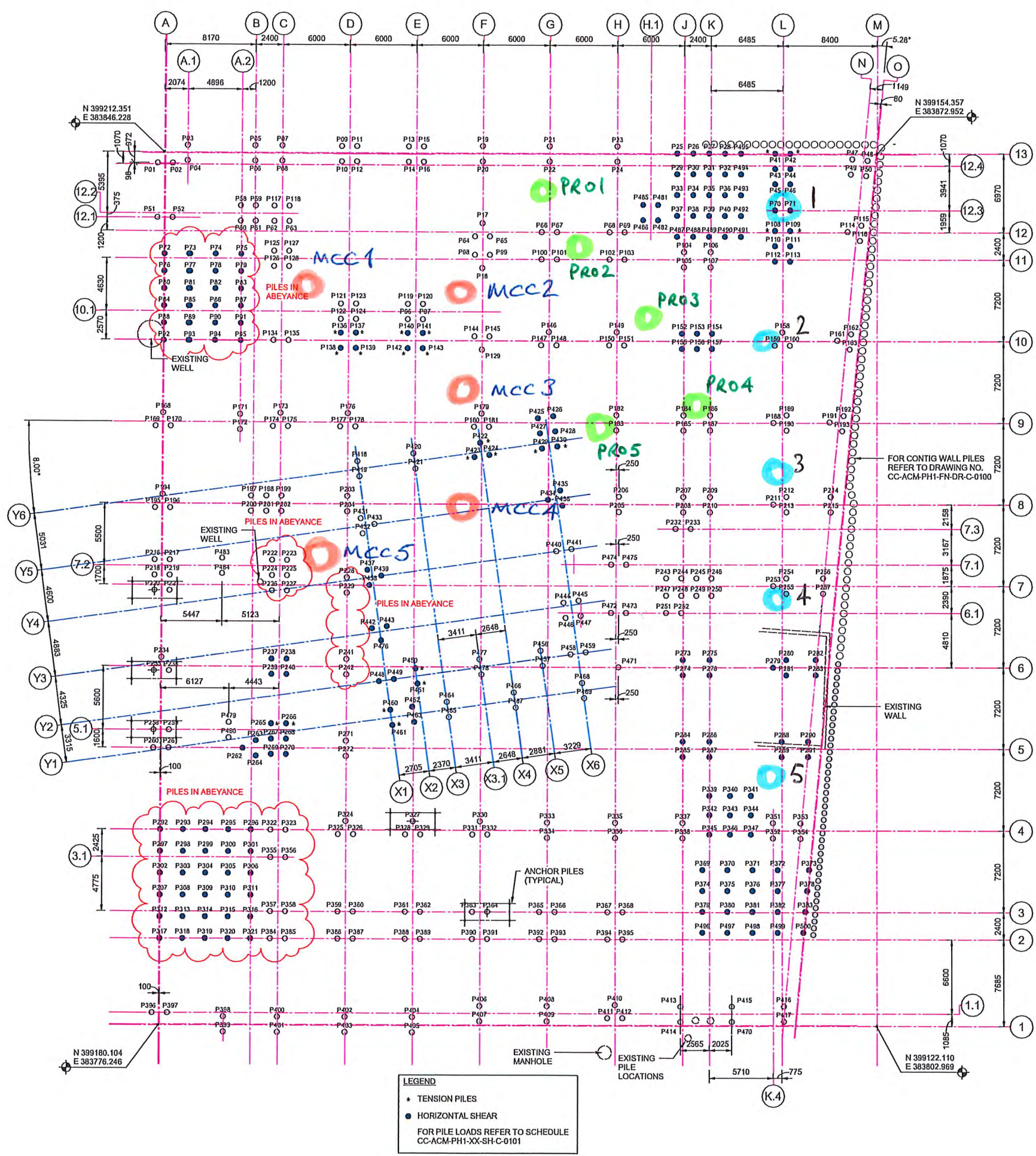
ALL VOLUMES REPRESENT
COMPACTED MATERIALS,
NO ADJUSTMENT HAS BEEN MADE
FOR BULKING UP/RE-COMPACTION

Cut and fill figures only account for
works in and around the contoured areas
shown on the 'Design'

FOR INFORMATION ONLY

5 SH

Appendix D – Geotechnical Testing Results



- NOTES
1. ALL DRAWINGS TO BE READ IN CONJUNCTION WITH AECOM PERFORMANCE SPECIFICATION.
 2. PILING
DIAMETER OF PILES = 450MM
PILES TO BE DESIGNED FOR 75MM ECCENTRICITY
CONCRETE GRADE C32/40
TESTING OF PILES REFER TO AECOM PILING SPECIFICATION
 3. FOUNDATIONS
REFER TO AECOM PILING AND CONCRETE SPECIFICATION



Project
CITY CENTRE PROJECT

Client
THE MANCHESTER COLLEGE



Consultant
AECOM
4th Floor, Bridgewater House
Whitworth Street
Manchester
M1 6LT
United Kingdom
Fax +44 (0)161 907 3559
Tel +44 (0)161 907 3500
www.aecom.com

Notes

- DO NOT SCALE FROM THIS DRAWING. WORK TO FIGURED DIMENSIONS ONLY.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH:
 - GENERAL NOTES DRAWING CC-ACM-PH1-XX-DR-S-0001
 - DESIGN REPORTS
 - SURVEY AND INTERPRETATIVE REPORTS
 - PROJECT SPECIFICATIONS AND PERFORMANCE SPECIFICATIONS
 - HEALTH AND SAFETY HAZARD REGISTER
 - RELEVANT DRAWINGS AND DOCUMENTATION ISSUED BY THE ARCHITECT, ENGINEERS AND SPECIALISTS.
 - BUILDING INFORMATION MODEL (BIM)
 - OUTLINE CONSTRUCTION METHODOLOGY
 - MOVEMENTS AND TOLERANCES REPORT
- ALL DIMENSIONS ARE IN MM EXCEPT LEVELS WHICH ARE IN METRES AND RELATE TO ORDNANCE DATUM
- ANY DISCREPANCIES SHALL BE REFERRED TO THE DESIGNER BEFORE WORK COMMENCES.

CBR TEST LOCATIONS
ON 14 MAY 2020

CBR TEST LOCATIONS
ON 20 MAY 2020

CBR TEST LOCATIONS
ON 22 MAY 2020

Issue/Revision

C04	13/05/20	FILES AND PILECAPS UPDATED TO SUIT STEELWORK LOADS AND BASEPLATE BOLT EDGE DISTANCES	IR/MA/XX
C03	01/05/20	PILE LAYOUT UPDATED TO SUIT HAMBLETONS STEEL FRAME DESIGN	IR/MA/XX
C02	27/03/20	ISSUED FOR CONSTRUCTION	IR/MA/XX
C01	06/03/20	TENDER ISSUE	IR/MA/XX
P04	05/12/19	UPDATED STAGE 4 ISSUE	IR/MA/XX
P03	19/11/19	STAGE 4 ISSUE	IR/MA/XX
P02	15/10/19	UPDATED STAGE 3 ISSUE	IR/MA/XX
P01	14/10/19	UPDATED STAGE 3 ISSUE	IR/MA/XX
Rev.	Date	Description	Drw/Chk/Apr

Key Plan

Suitability Status
A1 - Suitable For Construction

Project Number
60594458

Sheet Title
PILE LAYOUT

Sheet Number
CC-ACM-PH1-FN-DR-C-0101

Scale: 1:200@A1 Rev: C04



TEST REPORT

Client LK Remediate

Address Unit 29 Eton Business Park
Eton Hill Road
Radcliffe
Greater Manchester
M26 2ZS

Contract Former Boddington's Brewery,
Gt Ducie Street, Cheetham Hill,
Manchester M3 1PT

Job Number MRN 3817/9
Date of Issue 29 April 2020
Page 1 of 4

Approved Signatories

S J Hutchings, O P Davies

Notes

- 1 All remaining samples and remnants from this contract will be disposed 28 days from the date of this report unless you notify us to the contrary.
- 2 Result certificates, in this report, not bearing a UKAS mark, are not included in our UKAS accreditation schedule.
- 3 Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation
- 4 Certified that the samples have been examined and tested in accordance with the terms of the contract/order and unless otherwise stated conform to the standards/specifications quoted. This does not, however, guarantee the balance of the materials from which the tested samples have been taken to be of equal quality.