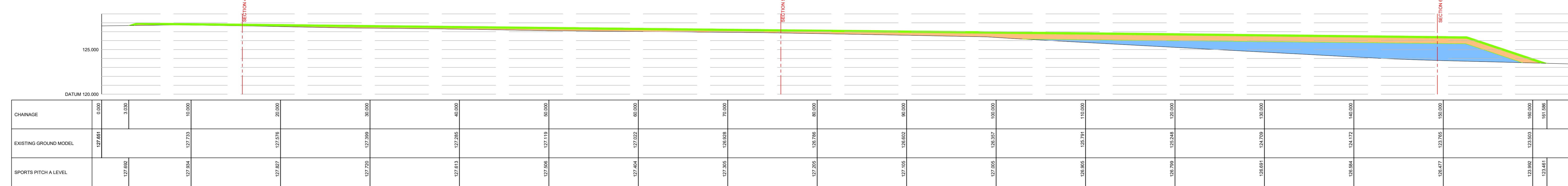
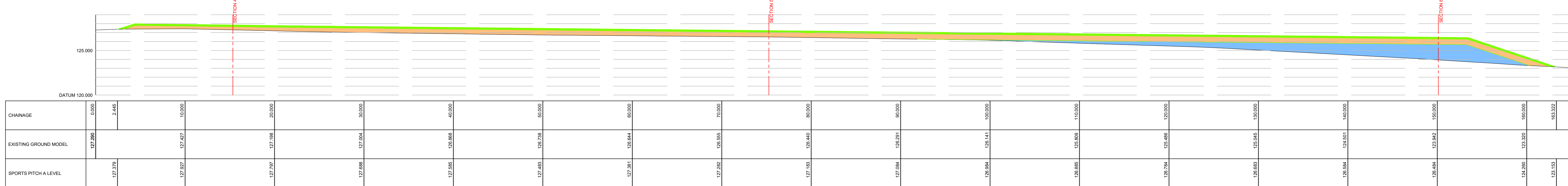


SPORTS PITCH A CROSS SECTION 1  
SCALE 1:200



SPORTS PITCH A CROSS SECTION 2  
SCALE 1:200



SPORTS PITCH A CROSS SECTION 3  
SCALE 1:200



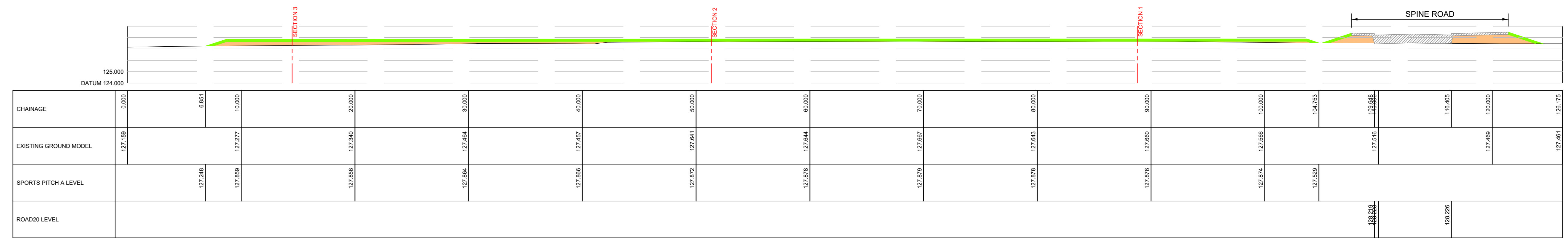
NOTES

**Sports pitch A**  
 Total fill required = 12280m³  
 Fill volume consists of - 4125m³ of Marlstone Rock deposits.  
 2474m³ Topsoil  
 5681m³ Sustainable Fill  
 Topsoil reuse volume = 2315m³ assuming 0.2m thickness  
 No topsoil strip has been assumed beneath the extent of Sports Pitch A  
 For Sports Pitch B sections refer to drawing: WPF-HYD-XX-XX-DR-C-0211  
 For LEAP sections refer to drawing: WPF-HYD-XX-XX-DR-C-0212  
 For site wide Cut & Fill Analysis refer to drawing: WPF-HYD-XX-XX-DR-C-2400

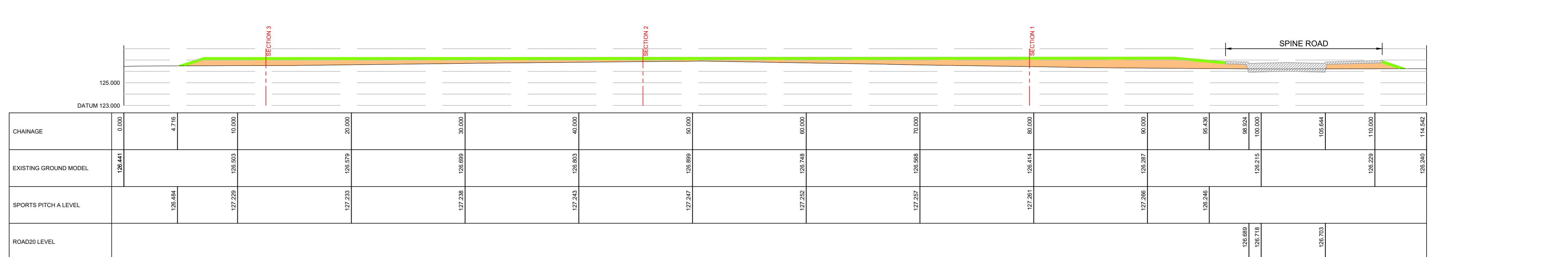
**LEGEND**

<span style="color: green;">█</span>	TOPSOIL PLACEMENT (200mm thickness where reused)
<span style="color: orange;">█</span>	FILL MATERIAL (Min 600mm cover over marlstone rock volumes)
<span style="color: red;">█</span>	CUT MATERIAL
<span style="color: blue;">█</span>	MARLSTONE ROCK (Placed in leap & sports pitch A)
<span style="color: grey;">█</span>	EXISTING GROUND
<span style="color: green;">█</span>	TOPSOIL STRIP

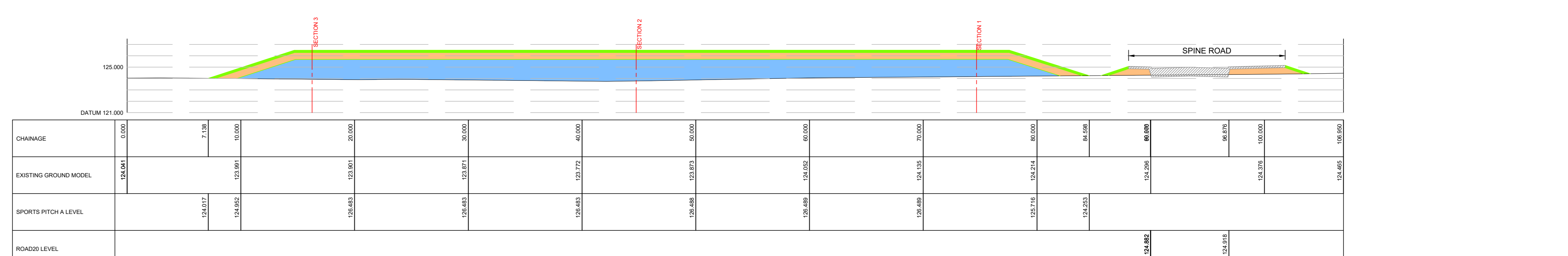
NOTES (CONTINUED)



SPORTS PITCH A CROSS SECTION 4  
SCALE 1:200



SPORTS PITCH A CROSS SECTION 5  
SCALE 1:200



SPORTS PITCH A CROSS SECTION 6  
SCALE 1:200

REVISIONS (CONTINUED)

REVISIONS

Rev	Date	Description	By	Ckd	App
P01	21/10/19	First Issue			

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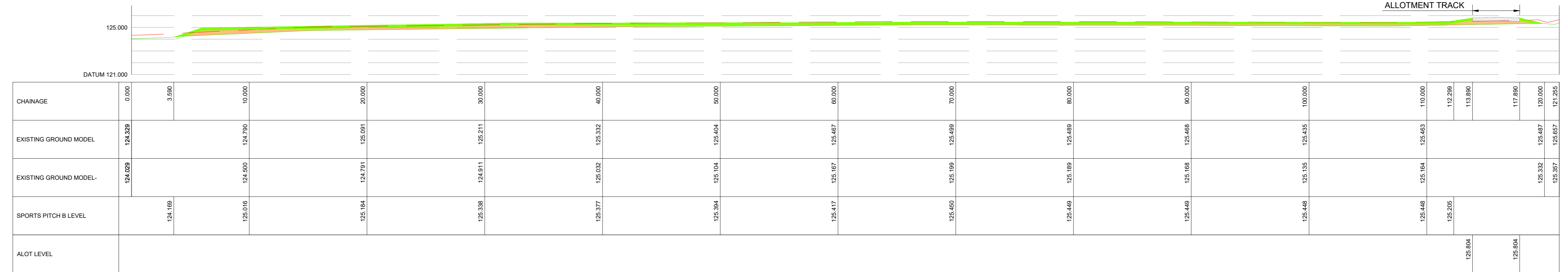
PROJECT  
**WYKHAM PARK FARM**

STATUS  
**S2**

REVISION  
**P01**

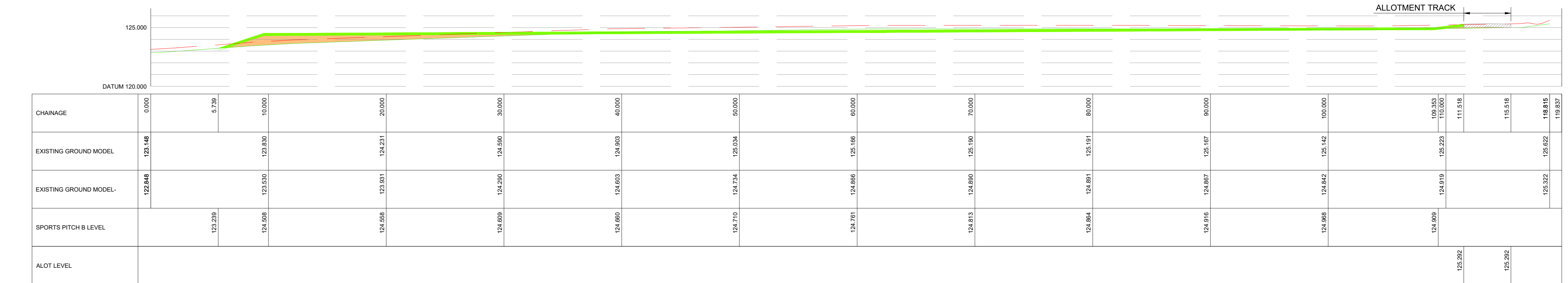
TITLE  
**CUT AND FILL ANALYSIS - SPORTS PITCH A SECTIONS**

HYDROCK PROJECT NO. <b>C-04841-C</b>	SCALE @ A/D <b>AS SHOWN</b>
STATUS DESCRIPTION <b>INFORMATION</b>	
DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE LEVEL-TYPE-ROLE-NUMBER) <b>WPF-HYD-XX-XX-DR-C-0210</b>	



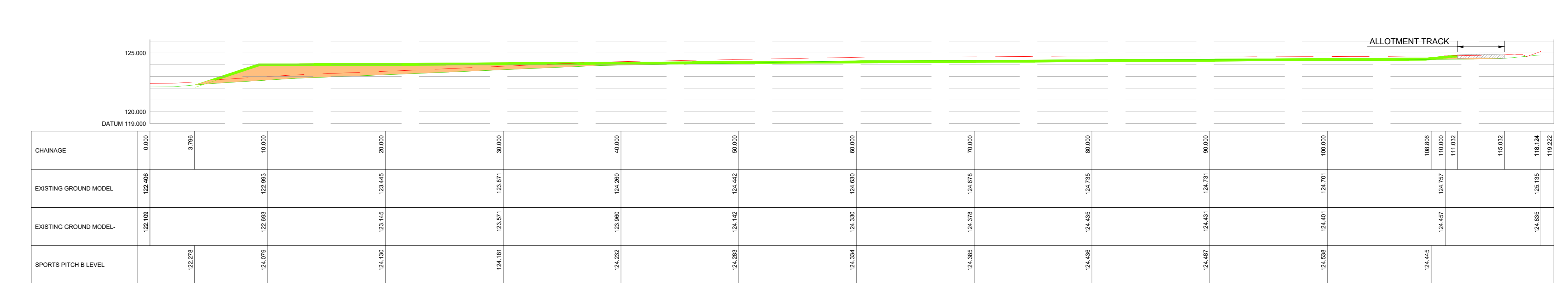
SPORTS PITCH B CROSS SECTION 1

SCALE 1:200



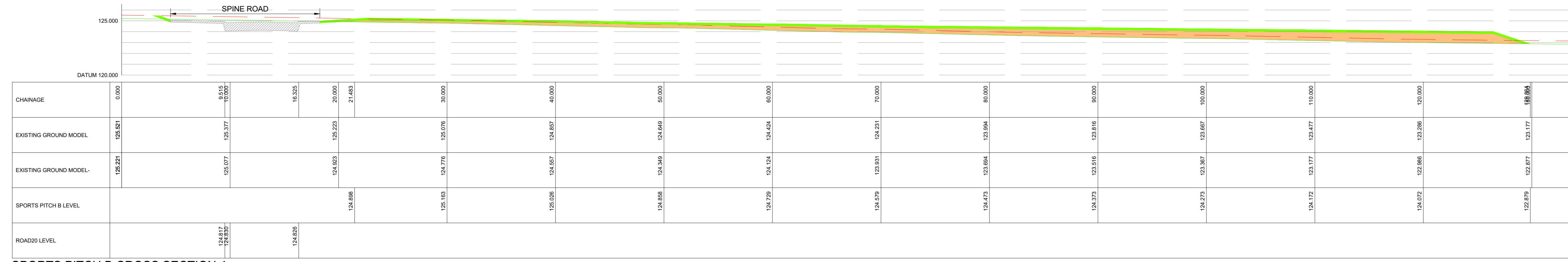
SPORTS PITCH B CROSS SECTION 2

SCALE 1:200



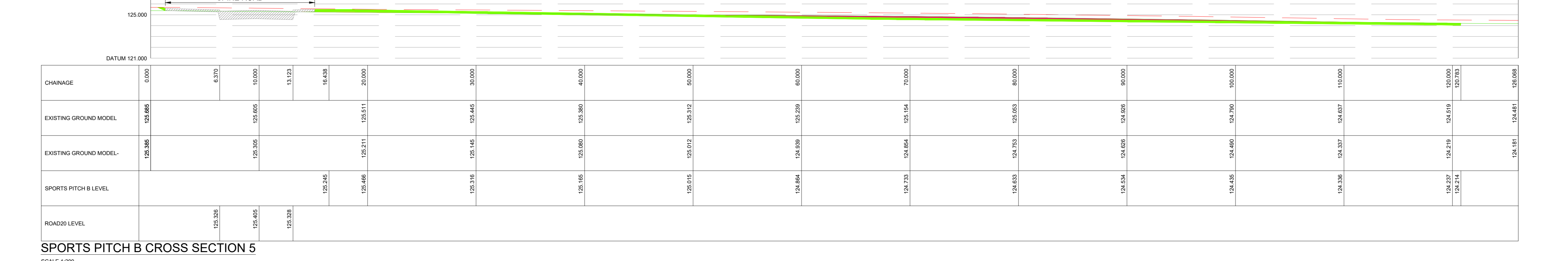
SPORTS PITCH B CROSS SECTION 3

SCALE 1:200



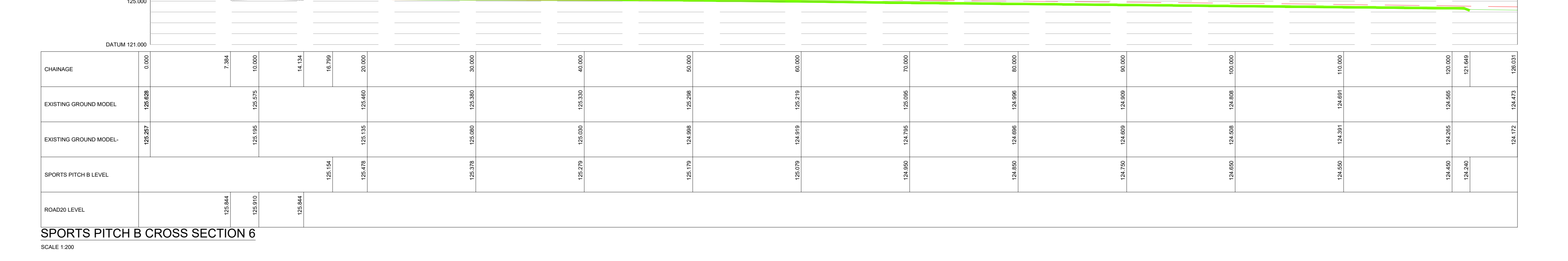
SPORTS PITCH B CROSS SECTION 4

SCALE 1:200



SPORTS PITCH B CROSS SECTION 5

SCALE 1:200



SPORTS PITCH B CROSS SECTION 6

SCALE 1:200

**LEGEND**

- TOPSOIL PLACEMENT (200mm thickness where reused)
- FILL MATERIAL (Min 600mm cover over marlstone rock volumes)
- CUT MATERIAL
- MARLSTONE ROCK (Placed in leap & sports pitch A)
- EXISTING GROUND
- TOPSOIL STRIP

**NOTES**

Sports pitch B  
 Total fill required = 2936m³  
 Fill volume consists of -  
 2474m³ Topsoil  
 5681m³ Suitable Fill  
 Topsoil reuse volume = 2315m³ assuming 0.2m thickness  
 No topsoil strip has been assumed beneath the extent of Sports Pitch A  
 For Sports Pitch B sections refer to drawing:  
 WPF-HYD-XX-XX-DR-C-0211  
 For LEAP sections refer to drawing:  
 WPF-HYD-XX-XX-DR-C-0212  
 For site wide Cut & Fill Analysis refer to drawing:  
 WPF-HYD-XX-XX-DR-C-2400

**REVISIONS**

Rev	Date	Description	By	Ckd	App
P01	01/10/19	First Issue	MF	MF	SM



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PROJECT  
WYKHAM PARK FARM

TITLE  
CUT AND FILL ANALYSIS - SPORTS PITCH B SECTIONS

HYDROCK PROJECT NO. C-04841-C	SCALE @ A0 1:AS SHOWN	STATUS S2
STATUS DESCRIPTION INFORMATION	DRAWING NO. / PROJECT CODE ORIGINATOR_ZONE-LEVEL-TYPE-SCALE-NUMBER WPF-HYD-XX-XX-DR-C-0211	REVISION P01



LEGEND	
	TOPSOIL PLACEMENT (200mm where reused)
	FILL MATERIAL (Min 600mm cover over marlstone rock volumes)
	CUT MATERIAL
	MARLSTONE ROCK (Placed in leap & sports pitch A)
	EXISTING GROUND
	TOPSOIL STRIP

**NOTES**

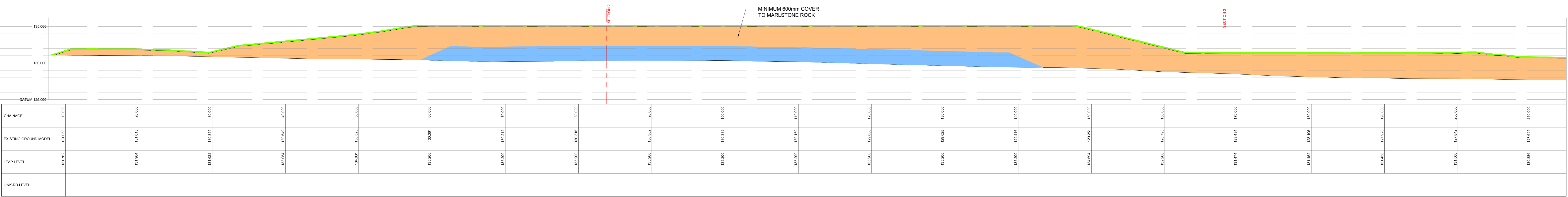
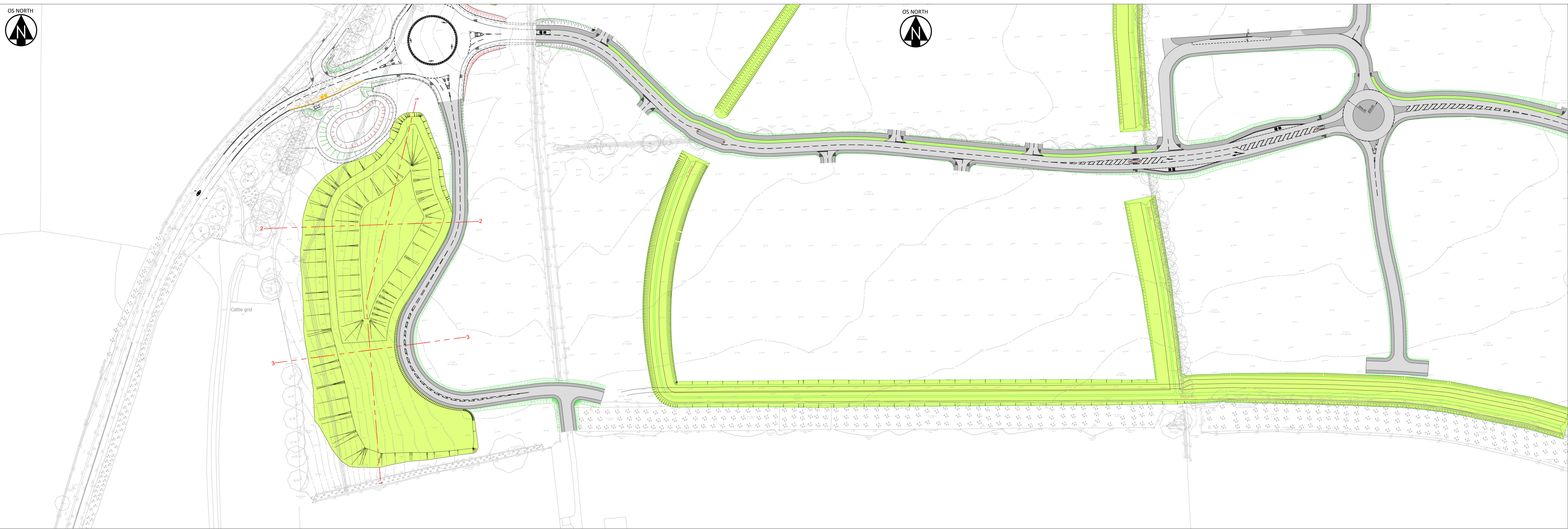
**LEAP**

Total fill available = 51084m<sup>3</sup>  
 Fill volume consists of:  
 2388m<sup>3</sup> Topsoil  
 3870m<sup>3</sup> Marlstone Rock deposits  
 44826m<sup>3</sup> Suitable Material

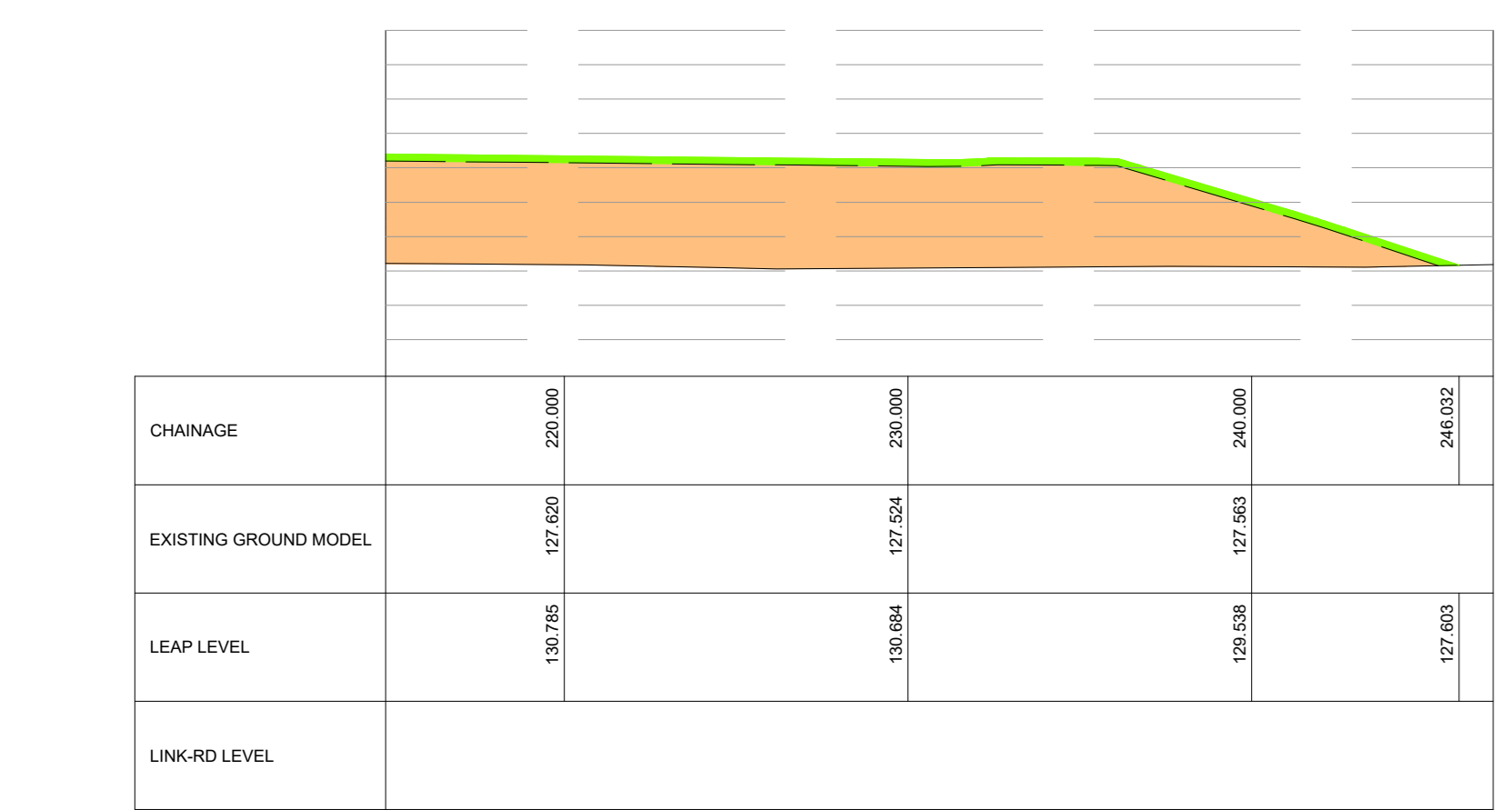
Topsoil reuse volume = 2388m<sup>3</sup> assuming 0.2m thickness

For Sports Pitch A sections refer to drawing:  
 WPF-HYD-XX-DR-C-0210  
 For Sports Pitch B sections refer to drawing:  
 WPF-HYD-XX-DR-C-0211

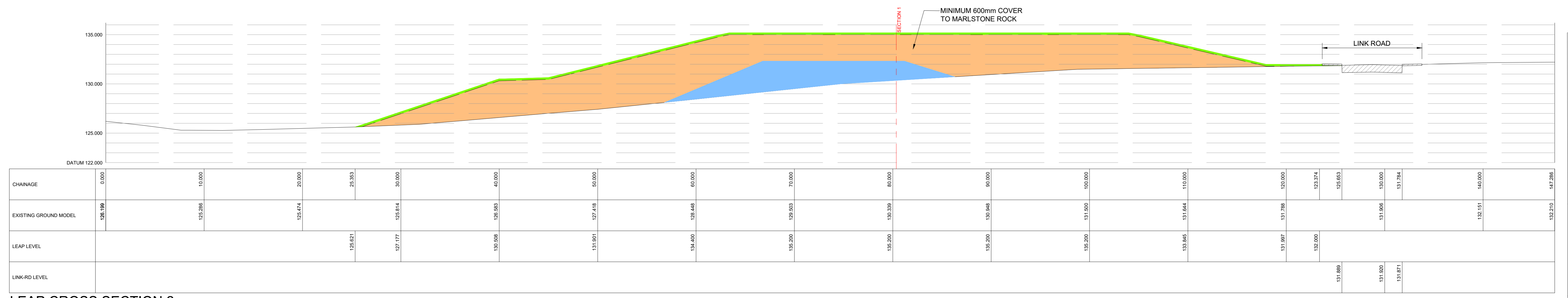
For site wide Cut & Fill Analysis refer to drawing:  
 WPF-HYD-XX-DR-C-2400



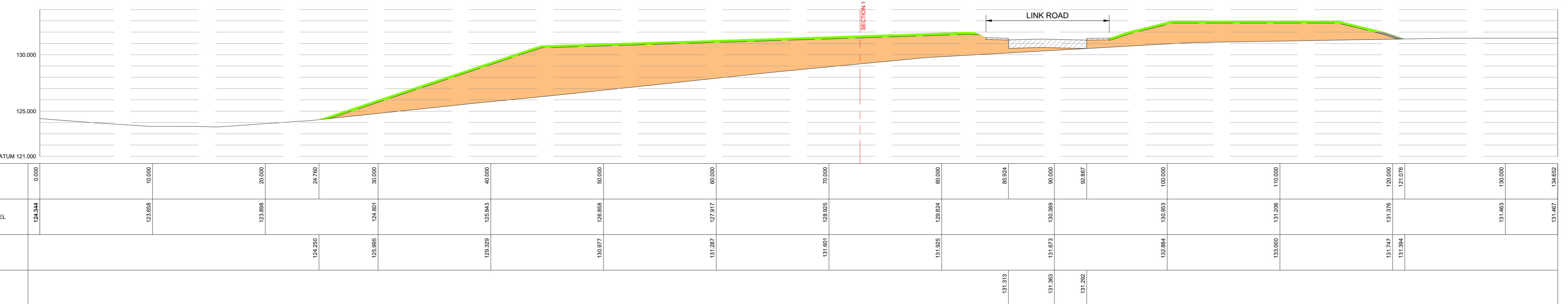
**LEAP CROSS SECTION 1**  
SCALE 1:200



**LEAP CROSS SECTION 1 Cont.,**  
SCALE 1:200



**LEAP CROSS SECTION 2**  
SCALE 1:200



**LEAP CROSS SECTION 3**  
SCALE 1:200

**NOTES**

**REVISIONS**

Rev	Date	Description	By	Ckd	App
P3	17/10/19	Amended LEAP shape and updated sections	SM	SM	BS
P2	04/07/19	Amended LEAP shape and updated sections	SM	SM	BS
P01	02/07/18	First issue	MF	SM	SM



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**PROJECT**  
WYKHAM PARK FARM  
BANBURY

**TITLE**  
CUT AND FILL ANALYSIS LEAP  
SECTIONS

HYDROCK PROJECT NO. C-04841-C	SCALE @ A0 1:1000	STATUS S2
STATUS DESCRIPTION INFORMATION	DRAWING NO. / PROJECT CODE ORIGINATOR.ZONE.LEVEL.TYPICALE NUMBER WPF-HYD-XX-DR-C-0212	REVISION P03



LEGEND	
<span style="color: green;">█</span>	TOPSOIL PLACEMENT (200mm where reused)
<span style="color: orange;">█</span>	FILL MATERIAL (Min 600mm cover over marlstone rock volumes)
<span style="color: red;">█</span>	CUT MATERIAL
<span style="color: blue;">█</span>	MARLSTONE ROCK (Placed in leap & sports pitch A)
<span style="color: grey;">█</span>	EXISTING GROUND
<span style="color: lightgrey;">█</span>	TOPSOIL STRIP

NOTES

REVISIONS

Rev	Date	Description	By	Chk	App
P2	04/07/19	Amended LEAP shape and updated sections	SM	SM	BS
P01	02/07/18	First Issue	MF	SM	SM

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**L & Q ESTATES**

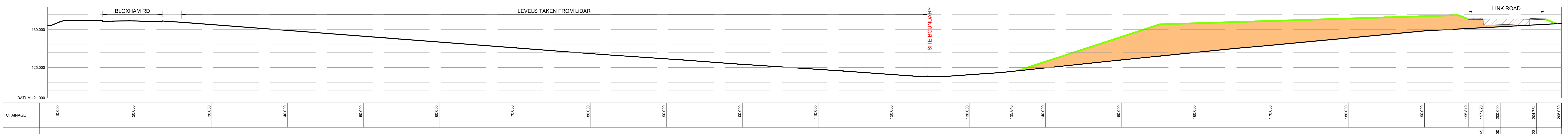
PROJECT  
**WYKHAM PARK FARM  
 BANBURY**

TITLE  
**CUT AND FILL ANALYSIS LEAP  
 SECTIONS 2**

HYDROCK PROJECT NO.  
**C-04841-C** SCALE @ A0  
**1:1000**

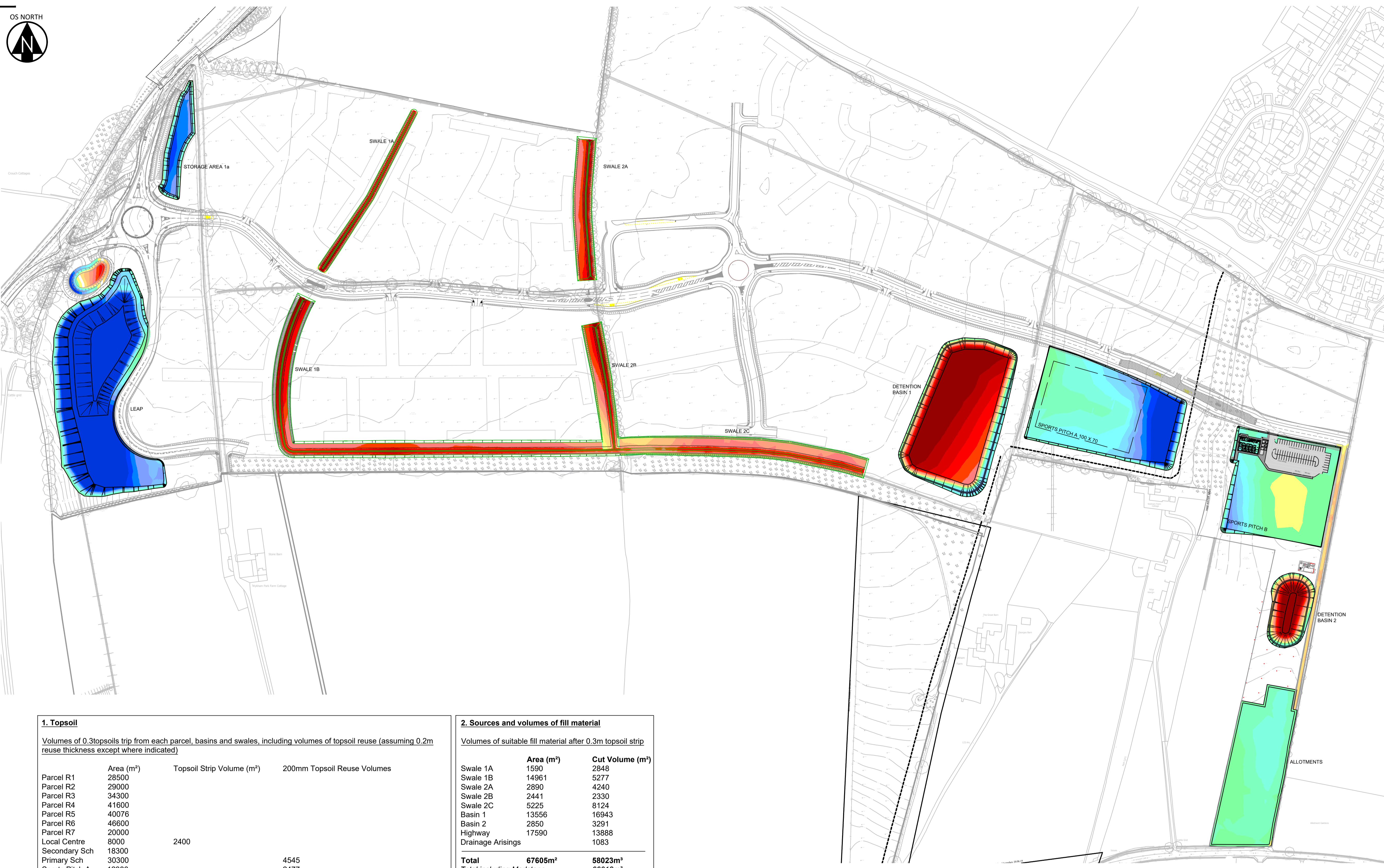
STATUS DESCRIPTION  
**INFORMATION** STATUS  
**S2**

DRAWING NO. / PROJECT CODE ORIGINATOR\_ZONE\_LEVEL\_TYPE/RCDL/NUMBER / REVISION  
**WPF-HYD-XX-XX-DR-C-0213** P02



CHAINAGE	0.000	20.000	40.000	60.000	80.000	100.000	120.000	140.000	160.000	180.000	200.000
LINK-ROD LEVEL											
LEAP LEVEL											
EXISTING GROUND MODEL	131.000	131.136	130.980	129.882	129.125	128.569	127.986	128.022	128.141	128.022	124.796
									124.616	125.870	125.195
									127.000	128.000	127.248
									126.984	127.555	127.884
									125.029	127.884	127.946
									124.910	127.850	127.946
									124.945	127.850	127.946
									124.900	127.850	127.946
									124.924	127.850	127.946
									124.925	127.850	127.946

**LEAP CROSS SECTION 1**  
 SCALE 1:200



**NOTES.**  
 It is assumed that any cut material can be reused on site as an engineered fill material. It is likely that material from site will need to be conditioned in terms of their moisture content to ensure they can be adequately compacted within proposed earthworks.  
 Topsoil strip is as advised by the geotechnical investigation report. (hydrock ref: WPF-HYD-XX-XX-RP-G-1001-P1.4-S2), this suggests topsoil thickness ranging from 0.15m to 0.4m so an average of 0.3m has been assumed.  
 A CBR value of 2.5% has been used for spine road design purposes as advised in the geotechnical investigation report (wfp-hyd-xx-xx-rp-g-1001-p1.4-s2).

CUT Depth Bands	
Band 1	-0.00 - -0.20
Band 2	-0.20 - -0.40
Band 3	-0.40 - -0.60
Band 4	-0.60 - -0.80
Band 5	-0.80 - -1.00
Band 6	-1.00 - -1.20
Band 7	-1.20 - -1.40
Band 8	-1.40 - -1.60
Band 9	-1.60 - -1.80
Band 10	-1.80 -

FILL Depth Bands	
Band 1	0.00 - 0.20
Band 2	0.20 - 0.40
Band 3	0.40 - 0.60
Band 4	0.60 - 0.80
Band 5	0.80 - 1.00
Band 6	1.00 - 1.20
Band 7	1.20 - 1.40
Band 8	1.40 - 1.60
Band 9	1.60 - 1.80
Band 10	1.80 -

Rev	Date	Description	By	Ckd
P13	10/04/20	Added isopachytes to allotment area	SM	BS
P12	27/02/20	Adjusted Sports pitch A area and removed storage area 1b	SM	BS
P11	17/10/19	Updated LEAP area and volumes	SM	BS
P10	09/10/19	Removed swale 4a amended topsoil strip volume	SM	BS
P9	30/09/19	Split storage area 1 & removed swale 4A	SM	BS
P8	20/09/19	Cut/fill removed from parcels R1 & R4	SM	BS
P7	14/08/19	Extents of leap and Sports Pitch A updated	SM	BS
P6	01/07/19	Updated LEAP area and southern link rd connections	SM	BS
P5	19/02/19	Adjusted extent of Sports Pitch A earthworks	SM	BS
P4	07/02/19	Parcel R2, R4 & Swales updated	SM	BS
P3	07/08/18	Isopachytes updated	SM	BS
P2	16/04/18	Updated Masterplan Layout to revision Y.	SM	BS
P1	16/08/17	First Issue.	SM	BS

**1. Topsoil**  
 Volumes of 0.3m topsoil strip from each parcel, basins and swales, including volumes of topsoil reuse (assuming 0.2m reuse thickness except where indicated)

Parcel	Area (m <sup>2</sup> )	Topsoil Strip Volume (m <sup>3</sup> )	200mm Topsoil Reuse Volumes
Parcel R1	28500		
Parcel R2	29000		
Parcel R3	34300		
Parcel R4	41600		
Parcel R5	40076		
Parcel R6	46600		
Parcel R7	20000		
Local Centre	8000	2400	
Secondary Sch	18300		
Primary Sch	30300		4545
Sports Pitch A	12386		2477
Sports Pitch B	11237	3371	2247
Leap	17053		3410
Storage Area A	4641		781
Basin 1	13556	4067	2711
Basin 2	2850	855	570
Highway	17590	5277	
Swales	27913	8373	5421
Allotment	9014		2181
<b>Total</b>	<b>408707m<sup>2</sup></b>	<b>24343m<sup>3</sup></b>	<b>24343m<sup>3</sup></b>

**2. Sources and volumes of fill material**  
 Volumes of suitable fill material after 0.3m topsoil strip

Area	Area (m <sup>2</sup> )	Cut Volume (m <sup>3</sup> )
Swale 1A	1590	2848
Swale 1B	14961	5277
Swale 2A	2890	4240
Swale 2B	2441	2330
Swale 2C	5225	8124
Basin 1	13556	16943
Basin 2	2850	3291
Highway	17590	13888
Drainage Arisings		1083
<b>Total</b>	<b>67605m<sup>2</sup></b>	<b>58023m<sup>3</sup></b>
<b>Total including Marlstone</b>		<b>66018m<sup>3</sup></b>

**3. Cut & Fill Volumes**  
 Where reusable fill is generated the following areas have been adjusted to reduce the volume of site won material

Total reusable fill material available taken from table 2 = 66018m<sup>3</sup>

Area	Area (m <sup>2</sup> )	Fill Volume required (m <sup>3</sup> )
Sports Pitch A	12368	9108 (4125 Marlstone Rock)
Sports Pitch B	13595	2936
Leap	11941	51286 (3870 Marlstone Rock)
Storage Area 1a	2262	2688
<b>Total</b>	<b>109216m<sup>2</sup></b>	<b>66018m<sup>3</sup></b>

An allowance for a 0.2m topsoil layer has been allowed for in the above volumes  
 Total volume of fill material taken from Table 2 = 66018m<sup>3</sup>

66018 - 66018 = **0m<sup>3</sup>**

**4. Marlstone Rock Volumes**  
 Volumes of contaminated material removed through swale excavation and topsoil strip

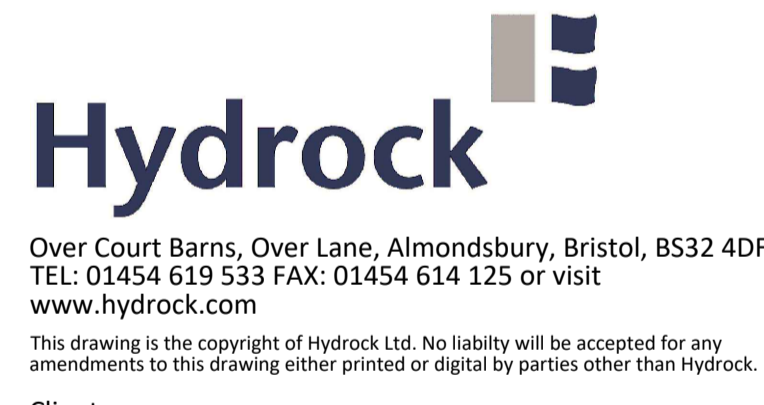
Area	Volume (m <sup>3</sup> )
Swale 1B	5619
Swale 2B	1542
Southern Foul Drainage Network	834
<b>Total Volume</b>	<b>7995m<sup>3</sup></b>

Volume stored in Sports Pitch A: 4125  
 Volume Stored in Leap: 3870  
**Total: 7995m<sup>3</sup>**

This contaminated fill has been placed within the Leap and Sports Pitch A with a minimum of 600mm cover.

**5. Cut & Fill Volumes Summary**

Total Volume of Topsoil Strip	24343m <sup>3</sup>
Topsoil Reuse Volume	24343m <sup>3</sup>
Topsoil Volume Remaining	0m <sup>3</sup>
Site won Fill Material	66018m <sup>3</sup>
Fill Material Reused	66018m <sup>3</sup>
Contaminated Fill Material	7995m <sup>3</sup>
Fill Material Remaining	0m <sup>3</sup>



Client: **L & Q ESTATES**

Project: **WYKHAM PARK FARM**  
 Hydrock Project No: **C-04841**

Drawing Title: **PRELIMINARY CUT & FILL ANALYSIS**

Status: **SO** Purpose of Issue: **INFORMATION**

Drawn: **SM** Checked: **BS** Scale @ A1: **As Shown** Drawn Date: **16/08/2017** First Issue: **16/08/2017**

Drawing No. **WPF-HYD-XX-XX-DR-C-2400** Revision **P13**

Notes:  
 All dimensions are to be checked on site before the commencement of works. Any discrepancies are to be reported to the Architect & Engineer for verification. Figured dimensions only are to be taken from this drawing. This drawing is to be read in conjunction with all relevant Engineers' and Service Engineers' drawings and specifications. This drawing is copyright.

Annex B

Reports