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S.F.P.D. LIMITED OUTDOOR LIGHTING DESIGN  
FOR TROWBRIDGE PARK : TROWBRIDGE TOWN COUNCIL  
FLOODLIGHT THREE EXISTING TENNIS COURT NRS 1 - 3  
AND M.U.G.A.

Project PROJECT : TROWBRIDGE PARK  CLIENT : TROWBRIDGE TOWN COUNCIL  TENNIS AREA : COURT NRS 1 - 3 & M.U.G.A.	SPORTS FACILITY PLANNING & DESIGN LIMITED 39 HEMWOOD ROAD, WINDSOR, BERKSHIRE. SL4 4YX.  TEL. 01753 850123 MOB. 07770 366259 Email : OFFICE@SFPAD.CO.UK
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CONTENTS

PAGE 1 - TITLE PAGE

PAGE 2 - CONTENTS PAGE

PAGE 3 - DESIGN BRIEF

PAGE 4 - LIGHTING PERFORMANCE RESULTS ALL COURTS ON

PAGE 5 - LIGHTING PERFORMANCE RESULTS ALL COURTS ON

PAGE 6 - POSITIONS AND HEIGHTS OF LIGHT FITTINGS

PAGE 7 - POSITIONS AND HEIGHTS OF LIGHT FITTINGD

PAGE 8 - LUX LEVEL CONTOUR PLOT OVER ORDNANCE SURVEY : SITE 1:650

PAGE 9 - LUX LEVEL CONTOUR PLOT OVER ORDNANCE SURVEY : SITE 1:1250

PAGE 10 - ISOMETRIC OF PROPOSED COURT & M.U.G.A. INSTALLATION

PAGE 11 - ISOMETRIC OF VERTICAL GRID THROUGH NORTHERN TREE LINE AT 2M INTERVALS FROM GROUND

PAGE 12 - PSUEDO COLOUR IMAGE OF PROPOSED SCHEME - PLAN VIEW

PAGE 13 - PSUEDO COLOUR IMAGE OF PROPOSED SCHEME - 3D VIEW

APPENDIX 1 - PROPOSED LIGHT FITTING & COLUMN DETAIL

APPENDIX 2 - ILP REDUCTION OF OBTRUSIVE LIGHT

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S.F.P.D. LIMITED OUTDOOR LIGHTING DESIGN  
FLOODLIGHT SIX EXISTING TENNIS COURT NRS 1 - 3 & M.U.G.A.  
DESIGN CRITERIA

To provide tennis court lighting scheme suitable for L.T.A. minimum standard, whilst minimising sky glow, light spill and glare. Performance standard applied to an individually switched court by court basis. Results provided for all courts and m.u.g.a. operation.  
Court Principle Playing Area (P.P.A.) 400 Lux 0.7 Uniformity.  
Court Total Playing Area (T.P.A.) 300 Lux 0.6 Uniformity.  
Multi-Use Games Area Principle Area (PA) 200 Lux 0.6 Uniformity  
Philips Lighting PLC Clearflood Large 550 Watt and Small 300 Watt LED Panel Type Fittings.  
Mounting Height of Fittings 6.5m. Fittings installed with a tilt angle of less than 10 degrees.  
Deflectors modelled to side run elevation of muga and court Nr 3.  
Fabric screening modelled to Northern run back elevation.  
Columns positioned inside and outside fence elevations  
Light Loss Factor 0.9 has been applied

Lighting Design Software : AGI 32 V18.3  
CAD Software : AutoCad 2018  
Designer : Lee West BSC. (Hons) MRICS MCIOB

Note : The nominal values shown in this design report are the result of precision calculations, based upon positioned luminaires in a fixed relationship to each other and to the area under examination. In practice the values may vary due to tolerances on luminaires, luminaire positioning, reflection properties and electrical supply

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Luminaire Schedule					
Symbol	Qty	Label	Description	Lumens/Lamp	LLF
+	8	BVP651 T25LED650-4S-740 DX60 L90	CLEARFLD LG DX60 65KL 90 LLF	65000	0.900
+	16	BVP650 T25 LED440-4S-740 DX60	CLEAR FLD ST25 LED 440KL 90 LLF	44000	0.900

Numeric Summary								
Label	CalcType	Units	Avg	Max	Min	Min/Avg	# Pts	Meter Type
COURT NR 1 - PPA ALL ON	Illuminance	Lux	428.63	603.6	311.0	0.73	15	Horizontal
COURT NR 1 - TPA ALL ON	Illuminance	Lux	415.75	621.7	234.4	0.56	35	Horizontal
COURT NR 2 - PPA ALL ON	Illuminance	Lux	433.93	604.1	339.0	0.78	15	Horizontal
COURT NR 2 - TPA ALL ON	Illuminance	Lux	423.49	622.1	237.0	0.56	35	Horizontal
COURT NR 3 - PPA ALL ON	Illuminance	Lux	412.85	579.6	283.9	0.69	15	Horizontal
COURT NR 3 - TPA ALL ON	Illuminance	Lux	383.86	621.1	214.4	0.56	35	Horizontal
MUGA FIVE-A-SIDE CLASS II PA	Illuminance	Lux	321.78	654.5	167.6	0.52	98	Horizontal
Site Area	Illuminance	Lux	11.50	804.3	0.0	0.00	3600	Horizontal
tree line	Illuminance	Lux	2.74	33.9	0.0	0.00	66	Vert-PerpCCW

LPD Area Summary			
Label	Area	Total Watts	LPD

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Statistical Area Summary			
Label	Avg	Max	Min
COURT NR 1 - PPA ALL ON	428.63	603.6	311.0
COURT NR 1 - TPA ALL ON	415.75	621.7	234.4
COURT NR 2 - PPA ALL ON	433.93	604.1	339.0
COURT NR 2 - TPA ALL ON	423.49	622.1	237.0
COURT NR 3 - PPA ALL ON	412.85	579.6	283.9
COURT NR 3 - TPA ALL ON	383.86	621.1	214.4
MUGA FIVE-A-SIDE CLASS II PA	321.78	654.5	167.6
Site Area	11.50	804.3	0.0
tree line	2.74	33.9	0.0

LPD Area Summary			
Label	Area	Total Watts	LPD

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Luminaire Location Summary									
UserField5	Label	X	Y	Z	Orient	LumNo	Switched	Dimming	
Court Nr 1	BVP650 T25 LED44	-7.522	-11.887	6.5	0	1	On	1.00	
Court Nr 1	BVP651 T25LED650	-7.522	0	6.5	0	2	On	1.00	
Court Nr 1	BVP650 T25 LED44	-7.522	11.887	6.5	0	3	On	1.00	
Court Nr 1	BVP650 T25 LED44	7.522	-11.887	6.5	180	4	On	1.00	
Court Nr 1	BVP651 T25LED650	7.522	0	6.5	180	5	On	1.00	
Court Nr 1	BVP650 T25 LED44	7.521	11.887	6.5	180	6	On	1.00	
Court Nr 2	BVP650 T25 LED44	8.697	-11.887	6.5	0	7	On	1.00	
Court Nr 2	BVP651 T25LED650	8.697	0	6.5	0	8	On	1.00	
Court Nr 2	BVP650 T25 LED44	8.697	11.887	6.5	0	9	On	1.00	
Court Nr 2	BVP650 T25 LED44	23.741	-11.887	6.5	180	10	On	1.00	
Court Nr 2	BVP651 T25LED650	23.741	0	6.5	180	11	On	1.00	
Court Nr 2	BVP650 T25 LED44	23.741	11.887	6.5	180	12	On	1.00	
Court Nr 3	BVP650 T25 LED44	24.916	-11.887	6.5	0	13	On	1.00	
Court Nr 3	BVP651 T25LED650	24.916	0	6.5	0	14	On	1.00	
Court Nr 3	BVP650 T25 LED44	24.916	11.887	6.5	0	15	On	1.00	
Court Nr 3	BVP650 T25 LED44	40.085	-11.887	6.5	180	16	On	1.00	
Court Nr 3	BVP651 T25LED650	40.085	0	6.5	180	17	On	1.00	
Court Nr 3	BVP650 T25 LED44	40.085	11.887	6.5	180	18	On	1.00	

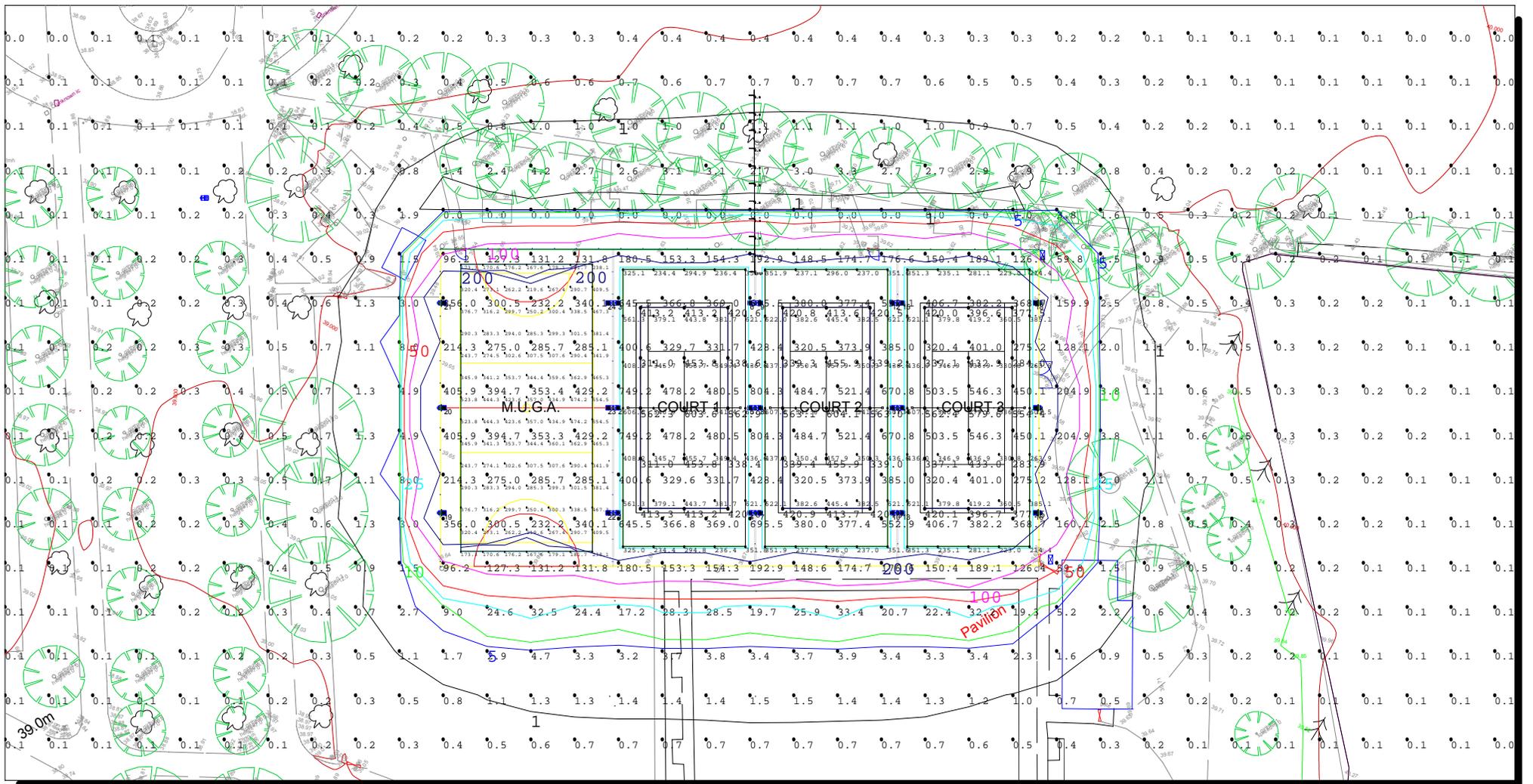
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Luminaire Location Summary									
UserField5	Label	X	Y	Z	Orient	LumNo	Switched	Dimming	
Court Nr 4	BVP650 T25 LED44	-27.39	-11.887	6.5	0	19	On	1.00	
Court Nr 4	BVP651 T25LED650	-27.39	0	6.5	0	20	On	1.00	
Court Nr 4	BVP650 T25 LED44	-27.39	11.887	6.5	0	21	On	1.00	
Court Nr 4	BVP650 T25 LED44	-8.697	-11.887	6.5	180	22	On	1.00	
Court Nr 4	BVP651 T25LED650	-8.697	0	6.5	180	23	On	1.00	
Court Nr 4	BVP650 T25 LED44	-8.697	11.887	6.5	180	24	On	1.00	

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Scale= 1: 650  
 Project  
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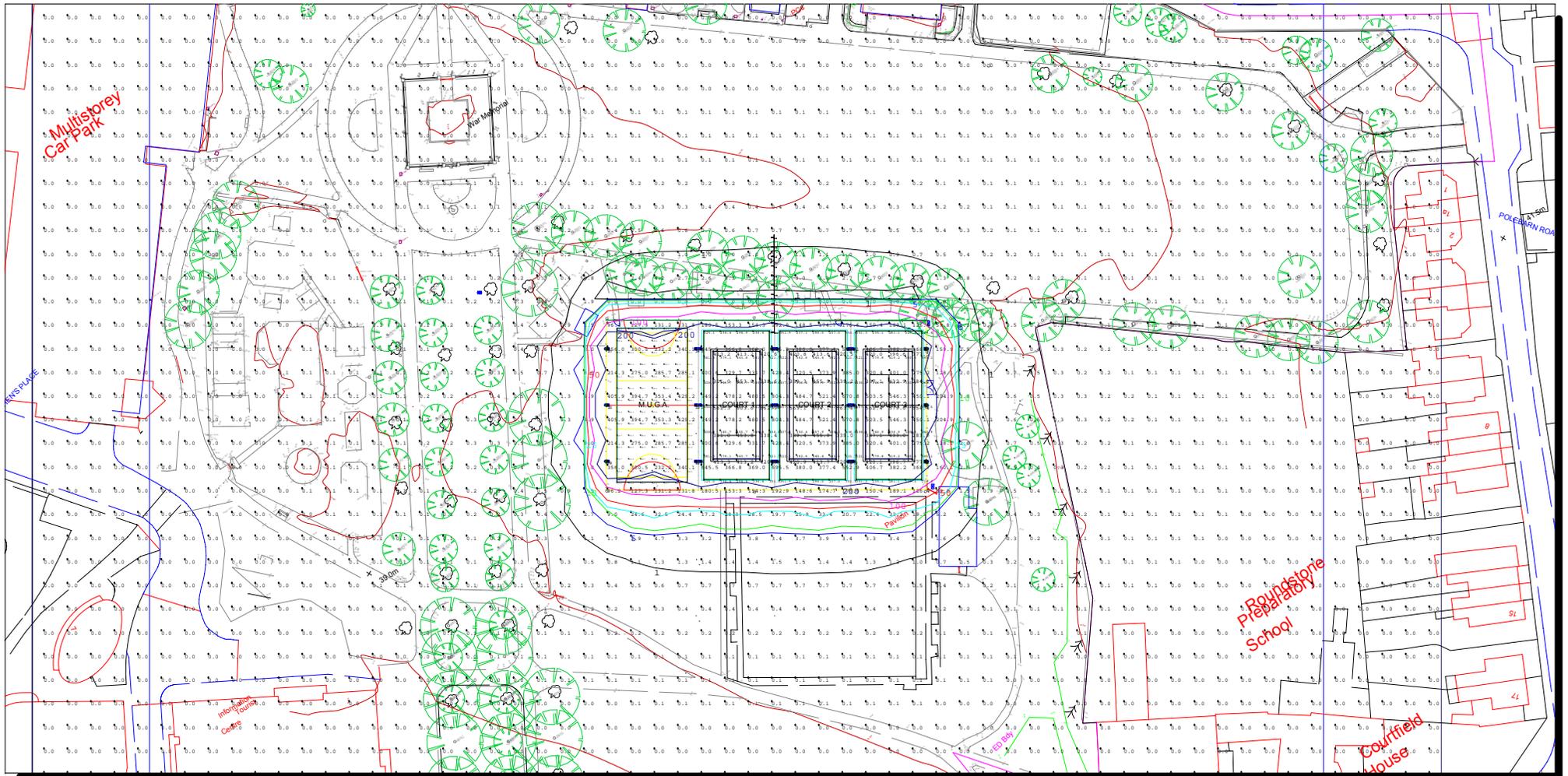
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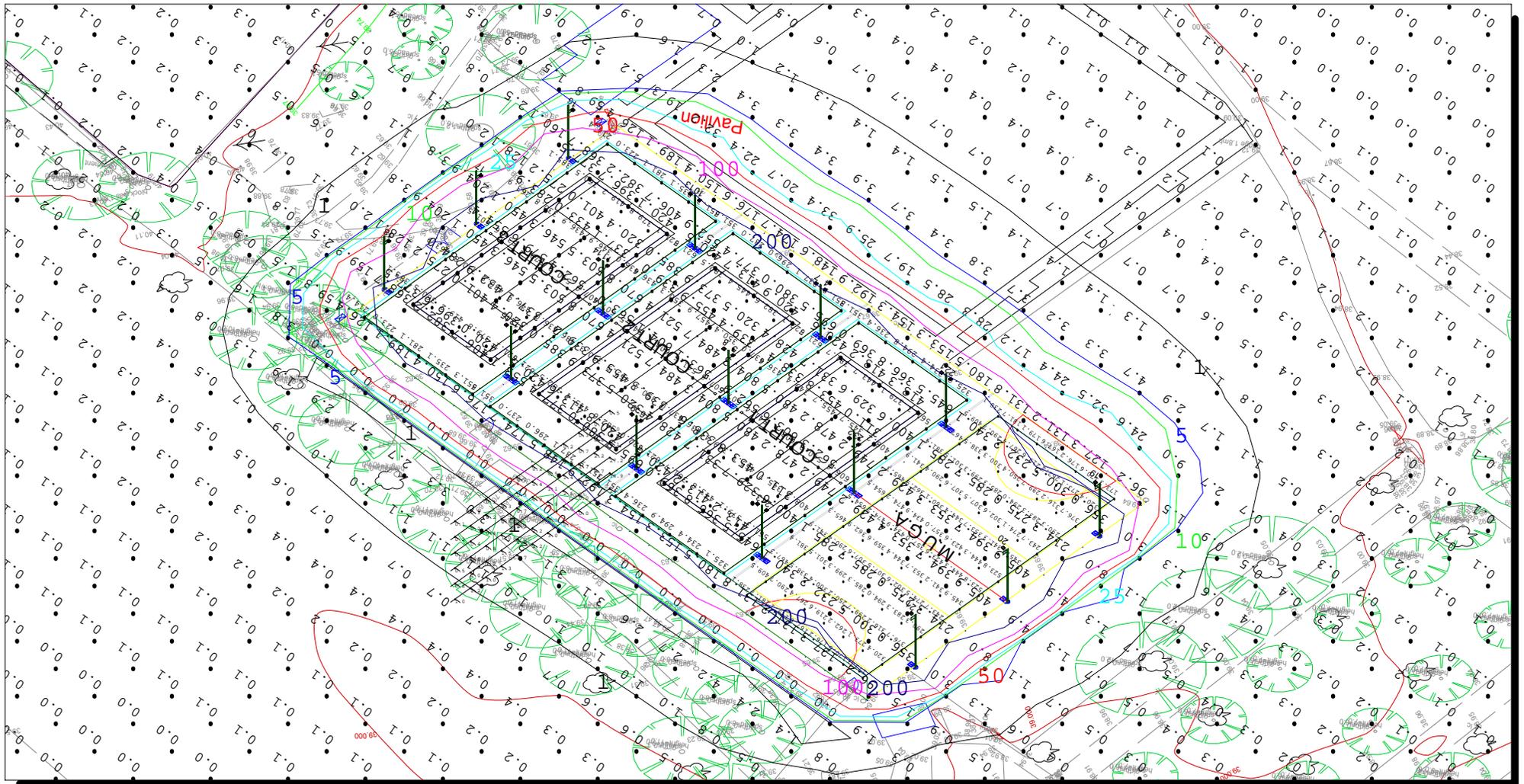




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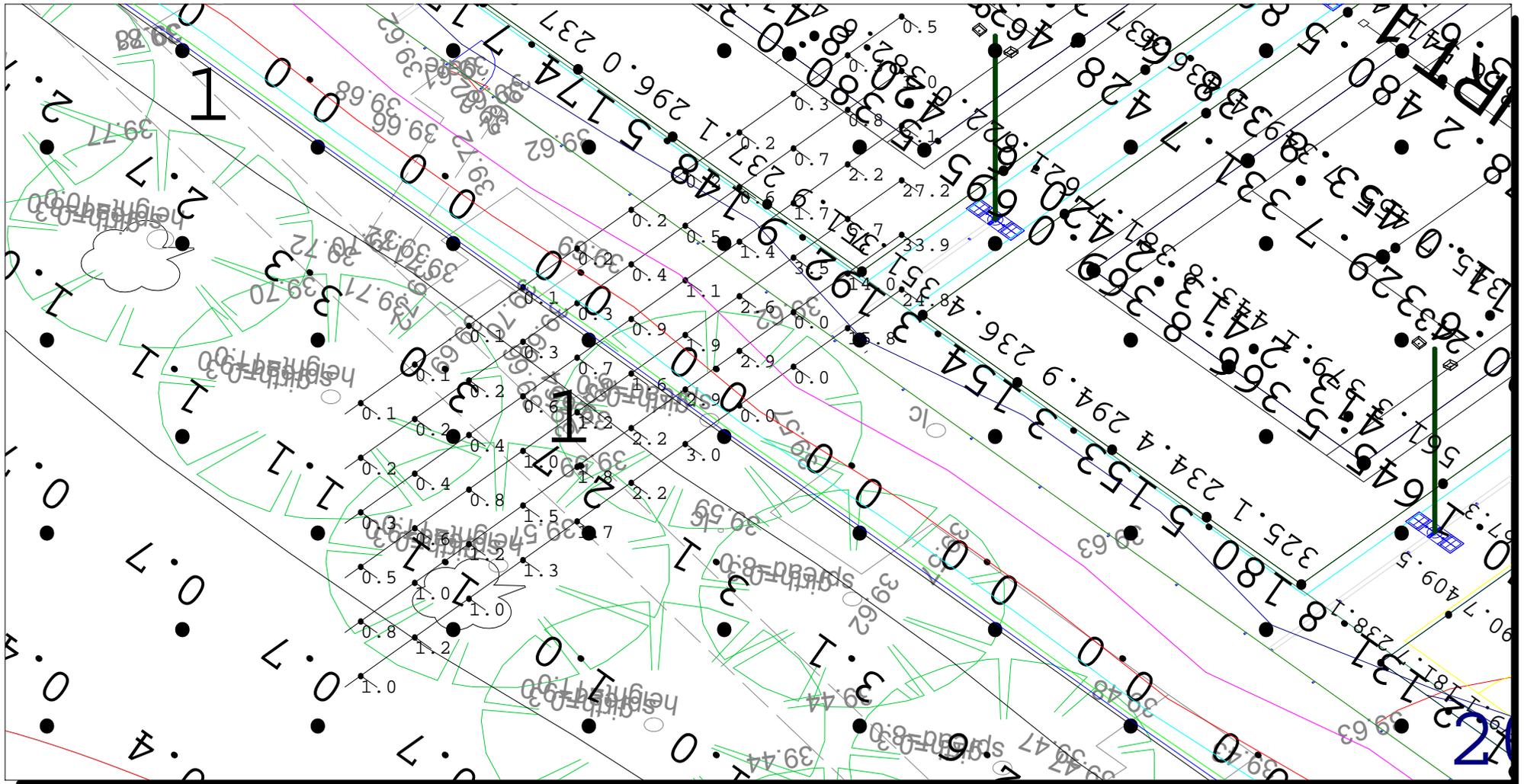




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