Infrastructure Design Document

The purpose of this form is for the client and ACCL to fully identify design parameters that need to be considered prior to the installation and completion of any network infrastructure project. This paperwork and design document takes in the relevant requirements of both current Mandatory & Regulatory British & European Standards

This form must be used on all site surveys prior to the installation and pricing or acceptance of any works.

There is a requirement that this form be completed as per the ACCL Operational Procedures and the use of this form further demonstrates compliance with the requirements of the British Standard BS 6701and the ACCL Quality Management System.

Every relevant section of this form must be completed, any sections that are answered with either No or N/A must have notes included within section 14 of this document.

Contents

1 Details

1.1 Customer		**1.2** Infrastructure survey carried out by:	
Name		Name	
Project/Phase			**ACCL**
Address		Address	International House Cray Avenue Orpington KENT BR5 3RY
Contact		Contact	
Tel Number		Tel Number	

Infrastructure Design Performed By: _____

Date: _____

Client Name: _____

Client Signature: _____

Date: _____

ACCL Director Approval: _____

Date: _____

Drawing No	Issued By	Date	Received By

2 Channel Model

2.1 Communication Channel	Copper		Fibre Optics		Wireless		Free-Space	

3 Copper Model

3.1 Copper Type	Manufacturer Preference							
3.2 Copper Type	UTP		STP		FTP		Other	
3.2 Copper Link	Permanent Link		Channel Link					
3.3 Copper Notes								

4 Fibre Optics Model

4.1 Fibre Type	OM3		OM2		OM1		OS1	
	4.1.1 Multimode		62.5 µm			50 µm		
	4.1.2 Singlemode							
4.2 Continuity of existing fibre type?	Yes		No					
4.3 Fibre Notes								

5 Wireless Model

5.1 Data Through-Put	11Mb		54Mb					
5.2 Wireless Survey	Yes		No					
	5.2.1 Costing & Design Procedure Explained				Yes		No	
5.3 Wireless Notes								

6 Free-Space Model

6.1 Head –to Head Distance						
6.2 Line of Sight Possible	Yes		No			
6.3 Head Mounting Brackets	Yes		No			
6.4 Head Mounting Poles	Yes		No			
	6.4.1 Mounting Pole Height			Quantity		
6.5 Free-Space Notes						

7 Frames / Cabinets

7.1 Type	Cabinet		Height		Foot-Print Size		Qty	
	Frame		Height		Foot-Print Size		Qty	
	MDF		Height		Foot-Print Size		Qty	
	TGF		Height		Foot-Print Size		Qty	
	OFDS		Height		Foot-Print Size		Qty	
	Wall		Height		Foot-Print Size		Qty	
7.2 Earth Bonding	Client aware of bonding requirements BS 6701: 2004				Yes		No	
7.3 Power Requirements	Commando		PDU		Other			
7.4 Frame / Cab Notes								

8 Cabling & Containment Procedures

8.1 Cable Routing		Existing Routes			New Routes Required			
8.2 Well Defined Routes		Yes		No				
8.3 Containment Fit for Purpose		Yes		No				
	8.3.1 Tray	Yes		No		Size		
	8.3.2 Basket	Yes		No		Size		
	8.3.2 Matting	Yes		No		Size		
	8.3.4 Trunking	Yes		No		Size		
	8.3.5 Dado	Yes		No		Size		
	8.3.6 Conduit	Yes		No		Size		
	8.3.7 Other	Yes		No		Size		
8.4 Allows Future Expansion		Yes		No				
8.5 Additional containment Required		Yes		No				
	8.5.1 Tray	Yes		No		Size		
	8.5.2 Basket	Yes		No		Size		
	8.5.2 Matting	Yes		No		Size		
	8.5.4 Trunking	Yes		No		Size		
	8.5.5 Dado	Yes		No		Size		
	8.5.6 Other	Yes		No		Size		
8.6 Cabling can be raised above ceiling tiles		Basket/Tray/Cleats etc		Yes		No		
8.7 External grade cables terminated with 2M of BEF (BS 6701)				Yes		No		
8.8 Cable Tie Type		Velcro®		Nylon		Other		
8.9 Fire Stopping Responsibility		ACCL		Client		Other		
8.10 Gas Testing Responsibility		ACCL		Client		Other		
8.11 Earth Bonding Responsibility (BS 6701 & BS 7671)			Yes		No		Passed	
8.12 Electrical segregation distances explained?								
8.13 Containment system not visible: Assumption made & agreed with client					Yes		No	

8.14 Containment System Notes

9 Voice Terminations

9.1 Who will supply labelling plans accordance BS 6701?	ACCL		Client	
9.2 One pair voice modulation required?	Yes		No	
9.3 Two pair voice modulation required?	Yes		No	
9.4 Voice designation strips required?	Yes		No	
9.5 Lightning protection required for external circuits?	Yes		No	

9.6 Voice termination Notes

10 Copper Data Terminations

10.1 Required patch panel size?		16		24		48	
	10.1.1	PCB		Modular			
	10.1.2	UTP		STP			
10.2 Preferred patch panel manufacturer?							
10.3 Face plates required?		Yes		No			
	10.3.1	Euro		6C			
	10.3.2	Single		Double			
10.4 Back Boxes Required		Yes		No			
	10.4.1 Back box depth?	44mm		Other			
10.5 Manufacturer patch cords required		Yes		No			
	10.5.1 Patch Cords	Booted		Un-Booted			
	10.5.2 Colour	Data	Voice	Servers	Other		

11 Fibre Terminations

11.1 Fibre type	Internal		External		External/Internal						
11.2 Construction type	Loose Tube		Tight-Buffered		Other						
11.3 Core size	Internal		External		External/Internal						
11.4 Outlet connector	SC		ST		LC		Other				
11.5 Panel connector	SC		ST		LC		Other				
11.6 Termination Method?	Pigtails		Fusion		Mechanical						
11.7 Fibre type continuity addressed?	Yes		No								

11.8 Voice Termination Notes

12 Labelling Presentation

12.1 Cabinet/Frame labelling presentation		
12.2 Patch panel labelling presentation		
	12.2.1 Voice	
	12.2.2 Data	
	12.2.3 Servers	
	12.2.4 Other	
12.3 Work area labelling presentation		
	12.3.1 Voice	
	12.3.2 Data	
	12.3.3 Other	
12.4 Floor box labelling presentation		
	12.4.1 Voice	
	12.4.2 Data	
	12.4.3 Other	
12.5 Dado labelling presentation		
	12.5.1 Voice	
	12.5.2 Data	
	12.5.3 Other	
12.6 Labelling Plan Notes		

13 Health & Safety

13.1 Is any asbestos known to be on site (Asbestos Register)?				Yes		No
13.1.1 Asbestos location?						
13.2 Is a permit to work required?				Yes		No
13.3 Is any working at height required? Please specify on additional paper				Yes		No
13.4 Is any work due to be carried out by electrically energised equipment? Please specify on additional paper.				Yes		No
13.5 Is any work due to be carried out in a confined or restricted space? Please specify on additional paper.				Yes		No
13.6 Will gas testing be required?				Yes		No
13.6.1 Who is responsible for gas testing?	ACCL			Client		Other

13.7 Health & Safety Notes

14 Access Routes

14.1 Access Routes descriptions. Please include the height and width of doorframes, lifts etc where access is required to pass through technical technology equipment etc.

15 Additional Information

Section Code	

16 Cabinet Layout Sketches

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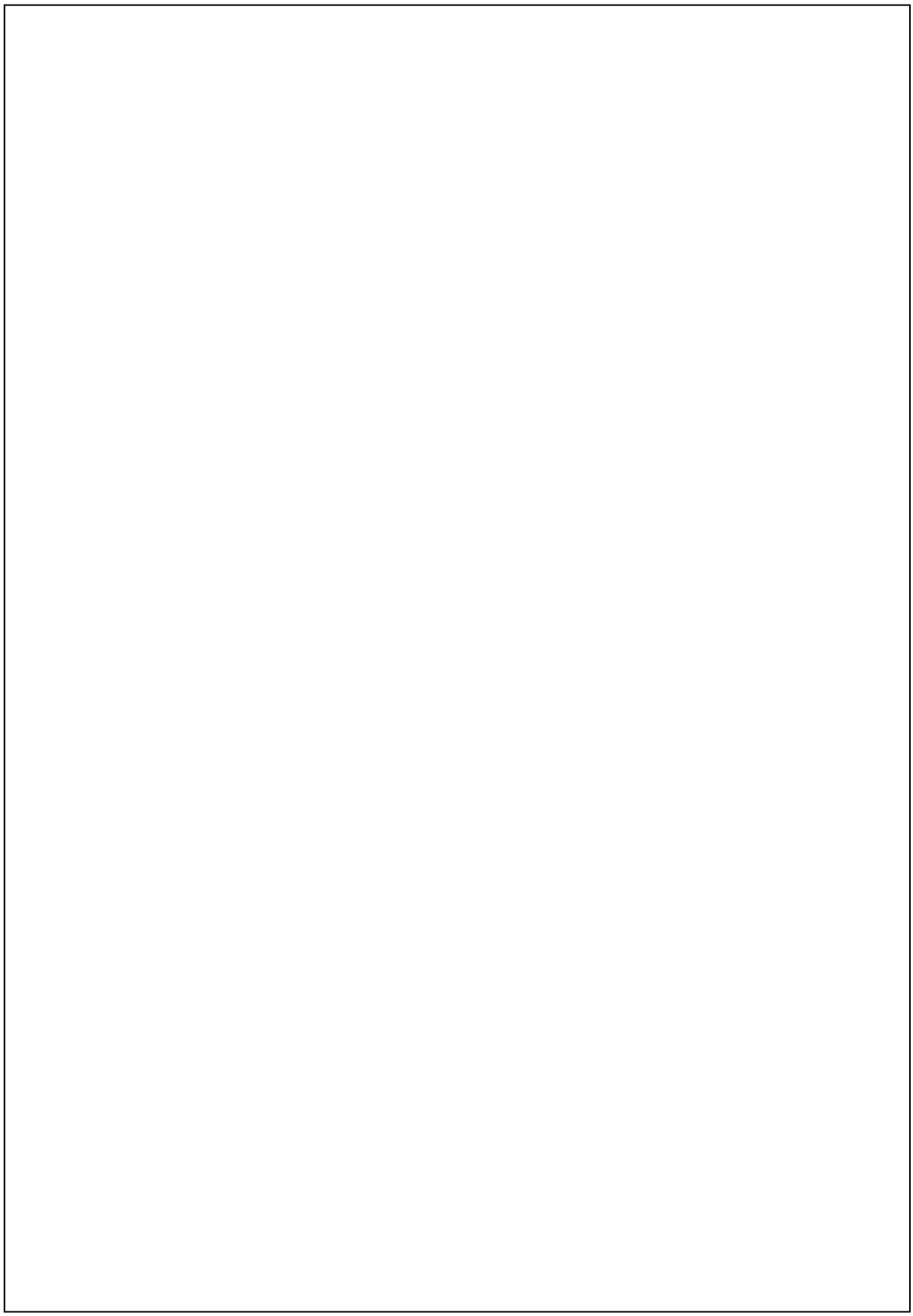
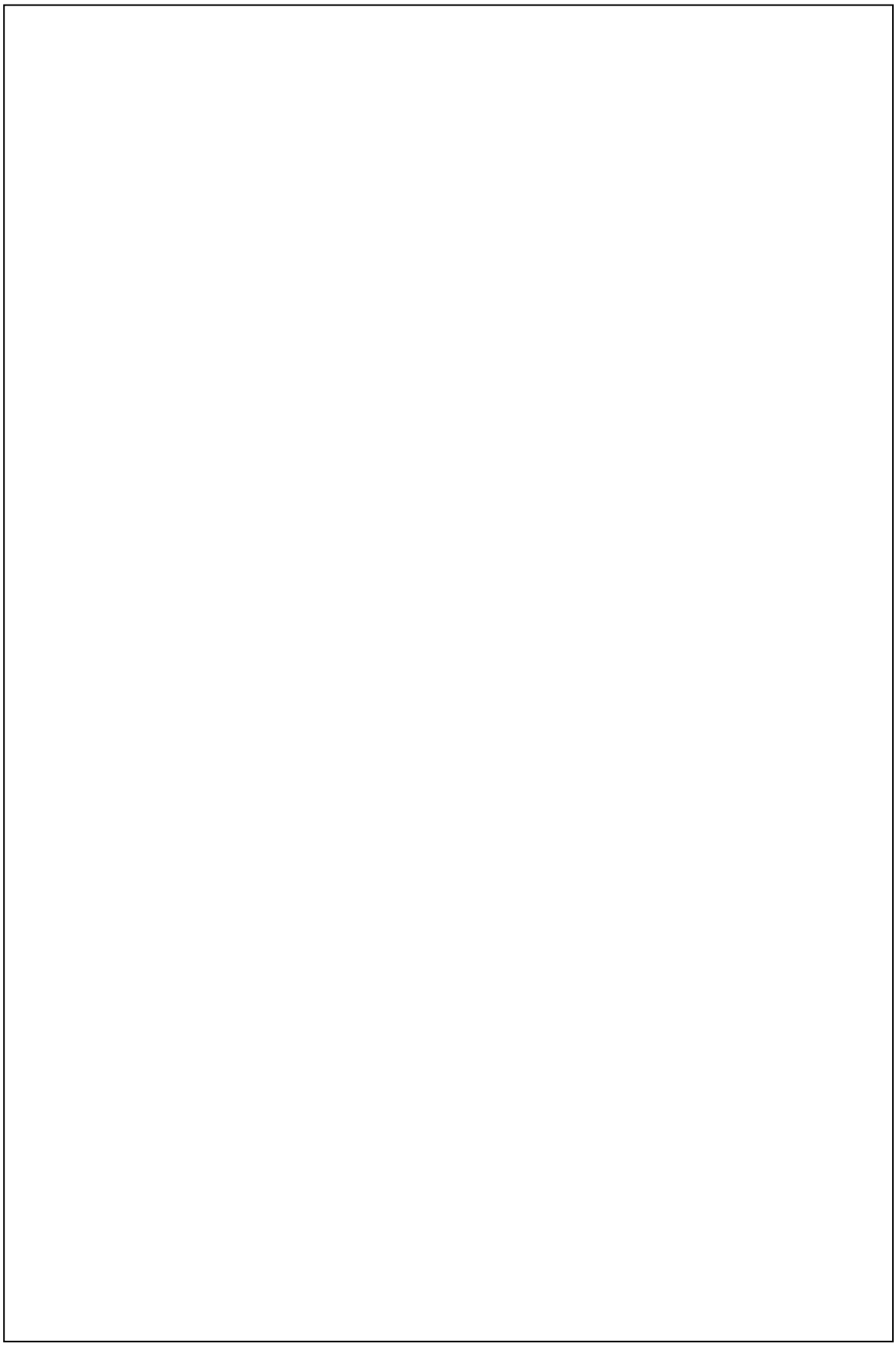
17 Sketch One



18 Sketch Two



19 Sketch Three