TONE

SCAFFOLDING
SERVICES

more than scaffolding.

Delivering Safety First

Never break the rules. Never ignore safety issues.

TONE

TONE Scaffolding is an experienced and professional scaffolding company with an unrivalled dedication to customer service, safety and quality.

We have a proven track record in delivering innovative scaffolding solutions in a creative, cost-effective manner while remaining focused on our top priority - SAFETY. Our commitment to safety has led us to gain qualifications that enable us to work in such safety-critical environments such as Utilities, Railways, Airports and Construction.

Renowned for our honest, open-door approach, we maintain a strong working relationship with our clients based on confidence and trust. This is reflected in the high level of repeat business we receive and also the fact that we are approved suppliers to a large number of organisations. Potential clients are welcome to visit our offices and sites by arrangement to see at first hand the way we run our business and meet a few of our satisfied customers.

Our commitment to excellence is found in everything we do. When your next scaffolding project demands the highest levels of expertise and reliability there is only one company to remember - TONE Scaffolding.

innovation | sustainability | tradition

more than scaffolding

before ...

... after

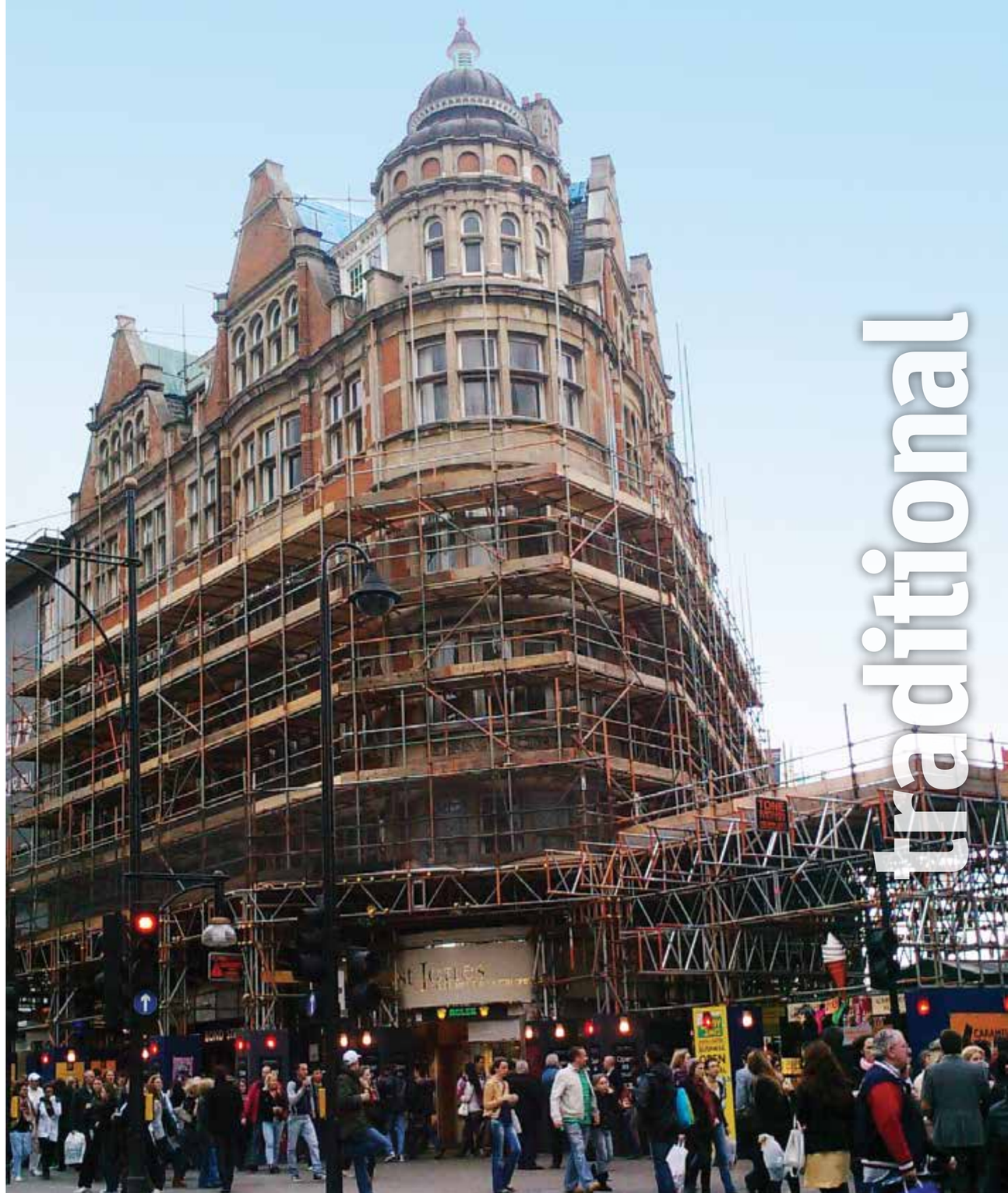
bespoke

Noise containment structure

Our challenge was noise containment using a freestanding structure 37 metres high using a bespoke system scaffolding solution

Traditional

TONE carries out many shapes and sizes of traditional tube and fitting structures from residential to commercial properties



Traditional

viaducts

Telham Viaduct

An environmentally sensitive project carried out adjacent to the railway

Battersea Power Station

Early works scaffolding project to one of London's largest brownfield sites

power stations

transport

Logistics

The TONE fleet of vehicles and plant work in support of the front line operatives and staff to deliver huge quantities of kit in a safe and timely manner

powerline crossing

Powerline crossing

TONE facilitates spanning important infrastructure across the UK for organisations such as Network Rail and the Highways Agency allowing work to be carried out safely and efficiently

TONE – more than scaffolding

SEE DRAWING TSS NWR 2010 091 01 FOR GENERAL NOTES AND IMPOSED AND PERMITTED LOADS

ALL PLAN BRACES ON ALL FOUR LIFTS OF SCAFFOLD MUST BE FIXED BETWEEN STANDARDS USING CLASS B DOUBLE COUPLERS.

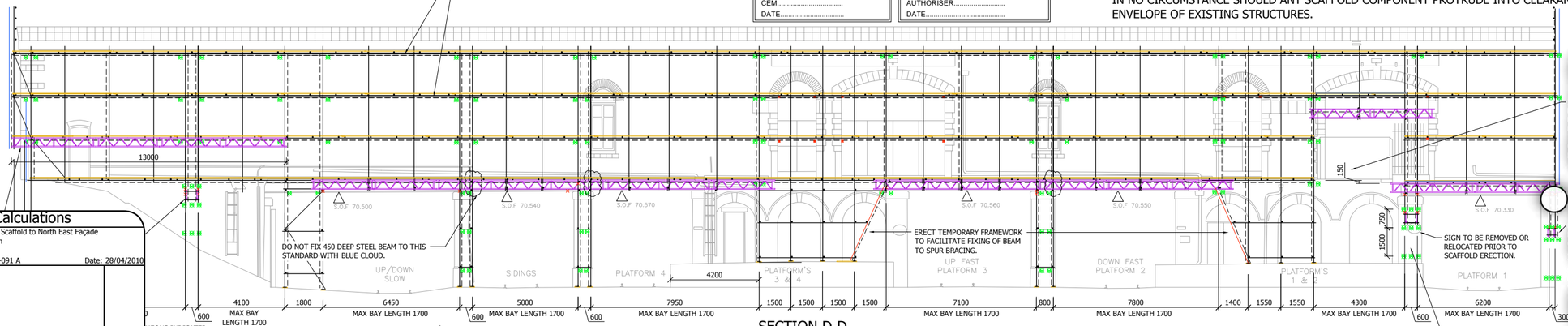
G2

APPROVED FOR CONSTRUCTION
CEM.....
DATE.....

AUTHORISED FOR ISSUE:
DESIGNER.....
CHECKER.....
AUTHORISER.....
DATE.....

ONLY TIE SCAFFOLD DIRECTLY ABOVE GROUND / PLATFORM BASED STANDARDS.

IN NO CIRCUMSTANCE SHOULD ANY SCAFFOLD COMPONENT PROTRUDE INTO CLEARANCE ENVELOPE OF EXISTING STRUCTURES.



Design Calculations

TONE SCAFFOLDING SERVICES
www.tonescaffolding.co.uk

Project: Beamed Access Scaffold to North East Façade
Site: Leicester Station
Client: May Gurney
Project Number: TSS-NWR-2010-091 A
Date: 28/04/2010

5.4 Standards - Typical Platform Based Standard

5.4.1 Inside standard:

Considering the self weight of scaffolding per bay:

Standards	1 no.	x	10.00 m	=	10.00 m
Ledgers	6 no.	x	2.00 m	=	12.00 m
Transoms	10 no.	x	0.85 m	=	8.50 m
Ledger bracing	6 no.	x	1.15 m	=	6.90 m
Plan bracing	8 no.	x	1.25 m	=	10.00 m
Total					47.40 m
Self weight of scaffold tube =	47.40 m	x	4.37 kg/m	=	207.14 kg
Fittings	33 no.	x	1.40 kg each	=	46.20 kg
			self weight of scaffold =		253.34 kg
				=	2.48 kN

Self weight of boards:

	L_E		L_W		
Working platform	2.00 m	x	0.675 m	=	1.35 m^2
	1.35 m^2	x	0.25 kN/m^2	=	0.34 kN
			5 'layers' of boards on scaffold =		1.69 kN

Imposed load

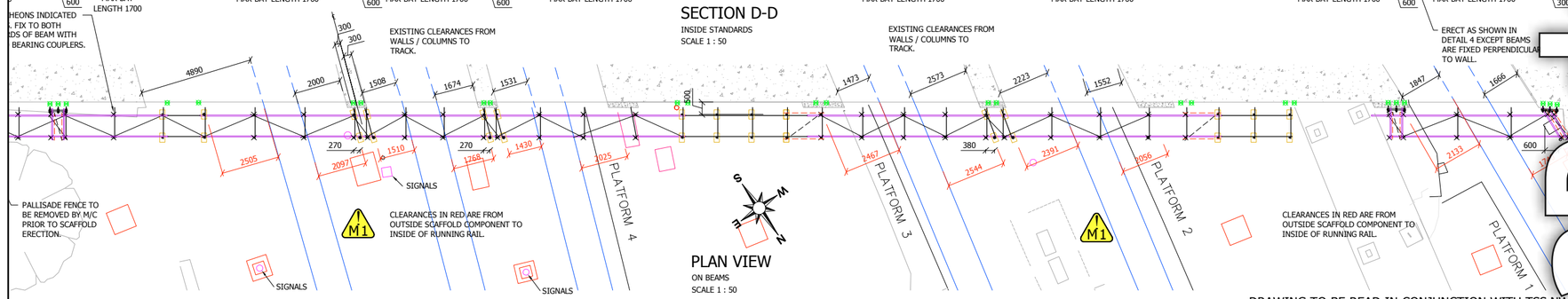
	L_E		L_W		
Working platform	2.00 m	x	0.45 m	=	0.90 m^2
	0.90 m^2	x	1.50 kN/m^2	=	1.35 kN
Inside board	2.00 m	x	0.225 m	=	0.45 m^2
	0.45 m^2	x	0.75 kN/m^2	=	0.34 kN

Buffeting Load

	L_E		L_W		
Working platform	2.00 m	x	0.675 m	=	1.35 m^2
	1.35 m^2	x	0.68 kN/m^2	=	0.92 kN
			Total vertical load in standard =		6.78 kN
	The axial load capacity for a 2000mm steel strut (TG20:08) =				28.20 kN
	28.20	>	6.78	therefore	**OK**

SECTION D-D

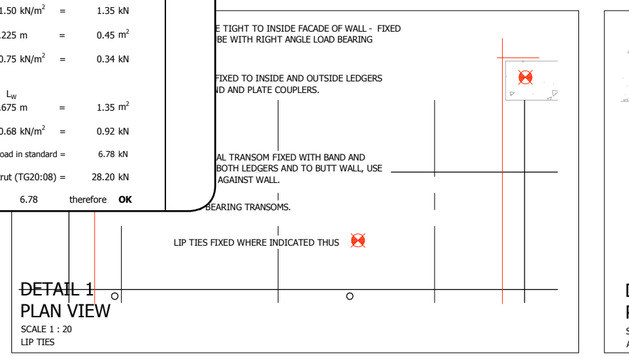
INSIDE STANDARDS
SCALE 1 : 50



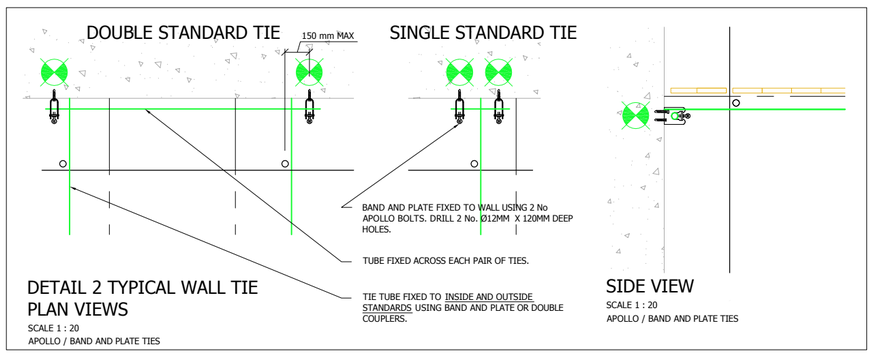
PLAN VIEW

ON BEAMS
SCALE 1 : 50

DRAWING TO BE READ IN CONJUNCTION WITH TSS NWR 2010 091 01

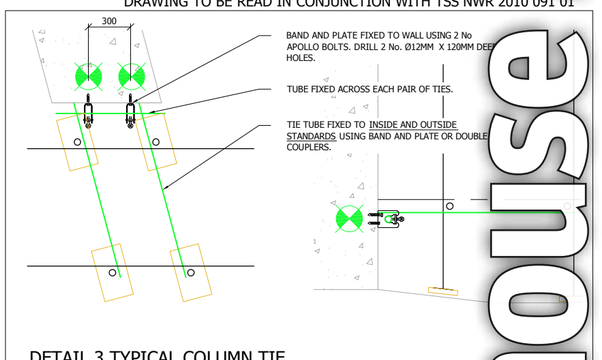


DETAIL 1
PLAN VIEW
SCALE 1 : 20
LIP TIES



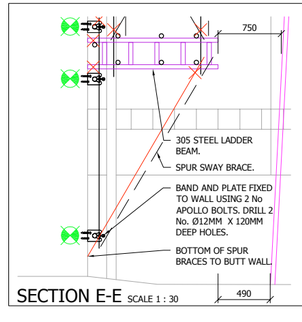
DETAIL 2 TYPICAL WALL TIE
PLAN VIEWS
SCALE 1 : 20
APOLLO / BAND AND PLATE TIES

SIDE VIEW
SCALE 1 : 20
APOLLO / BAND AND PLATE TIES

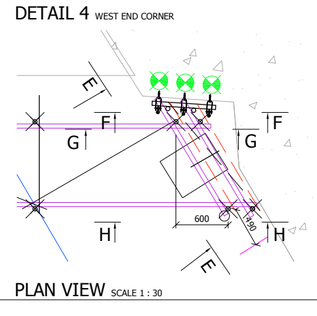


DETAIL 3 TYPICAL COLUMN TIE
PLAN VIEW
SCALE 1 : 20
APOLLO / BAND AND PLATE TIES

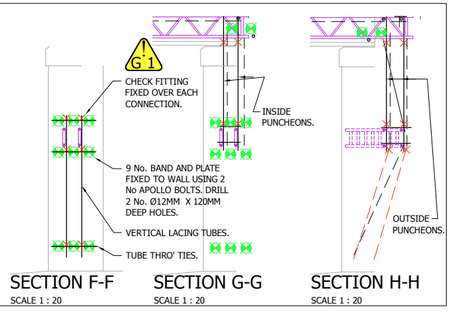
SIDE VIEW
SCALE 1 : 20
APOLLO / BAND AND PLATE TIES



SECTION E-E
SCALE 1 : 30



PLAN VIEW
SCALE 1 : 30



SECTION F-F
SCALE 1 : 20

SECTION G-G
SCALE 1 : 20

SECTION H-H
SCALE 1 : 20

No. OF TIES	: 92 TOTAL
MAXIMUM ANCHOR LOAD	: 7.57 kN
TEST SINGLE BOLT TO	: 6.00 kN (TENSILE)

TWO BOLTS PER ANCHOR. TEST MINIMUM OF TEN BOLTS ON INDEPENDENT SCAFFOLD.
TEST ONE BOLT IN ALL BRACKET ANCHORS (9no.)

UNCONTROLLED IF NOT STAMPED

REV	DESCRIPTION	BY	DATE
D	EAST END BEAM EXTENDED TO WALL SUPPORT. PLT 4 AND 2 GROUNDED STANDARDS POSITIONS AMENDED.	JW	19.05.10
C	2 ND EAST END SUPPORT AMENDED TO PUNCHEON. DRAWING 03 ADDED FOR RAMP.	JW	03.05.10
B	AMENDMENTS AS R.B. / T.M. COMMENTS	JW	28.04.10
A	WORKING DRAWING, ISSUED FOR APPROVAL	BMB	21.04.10
P2	AMENDMENTS AS PER CLIENTS COMMENTS - EMAIL DATED 15.04.10	JW	15.04.10
P1	ISSUED FOR COMMENT	JW	14.04.10

CLIENT: Clients logo here
SITE: LEICESTER STATION
TITLE: ACCESS SCAFFOLD TO NORTH EAST FACADE WITH BRIDGING OVER TRACKS.

IDENTIFICATION OF RESIDUAL HAZARDS
THE FOLLOWING SYMBOL DENOTES WHERE RESIDUAL HAZARDS REMAIN ON THE SCAFFOLD.
RISK ASSESSMENT REFERENCE
A1

DRAWING STATUS: WORKING

TONE RAIL DIVISION
www.tonescaffolding.co.uk
TONE GROUP DESIGN SERVICES
SKY HOUSE. 87-91 BEDDINGTON LANE CROYDON CR0 4TD

DRAWN BY	DATE	CHECKED BY	DATE
J.WALIA	14.04.10	B.BEAUMONT	14.04.10

SCALE	DRAWING NUMBER	REV
1 : 50 @ A1	TSS NWR 2010 - 091 - 02	D

The TONE inhouse scaffolding design & engineering team

Our team have the ability to provide the client with practical, simple solutions as well as overcoming challenging situations with innovation. 2D drawings with full calculations, 3D photo-realistic rendered images

2D design inhouse

A4

Special cantilevered structure that assisted the client to save time, money and disruption to the public

public staircases

School refurbishment

TONE produced a special staircase to allow access to an area of the school during refurbishment work

powerline crossing

actual photo

3D rendered image

3D design

inhouse 3

3d rendered image

Increasing emphasis is being placed on maintaining the customer experience in public places. Therefore the aesthetics of our structures is very important. In order to deliver the expectation, the TONE design team provide 3D photo-realistic rendered images of the final product

powerline crossing

water crossings

South Wales

The TONE rail team worked across this tidal river, hanging the scaffold from the bascule bridge structure, with the challenges of a railway above

Churches & historic buildings

The TONE team work diligently to ensure care is taken in and around the fabric of these important buildings and aim to keep disruption to an absolute minimum

restoration

major works

Dartford

Major shoring and heavy duty support work is another TONE speciality

specialist buildings

Hampton Court Palace

TONE take great care when working adjacent to buildings of national importance

airports

< Temporary scaffolding bus stop

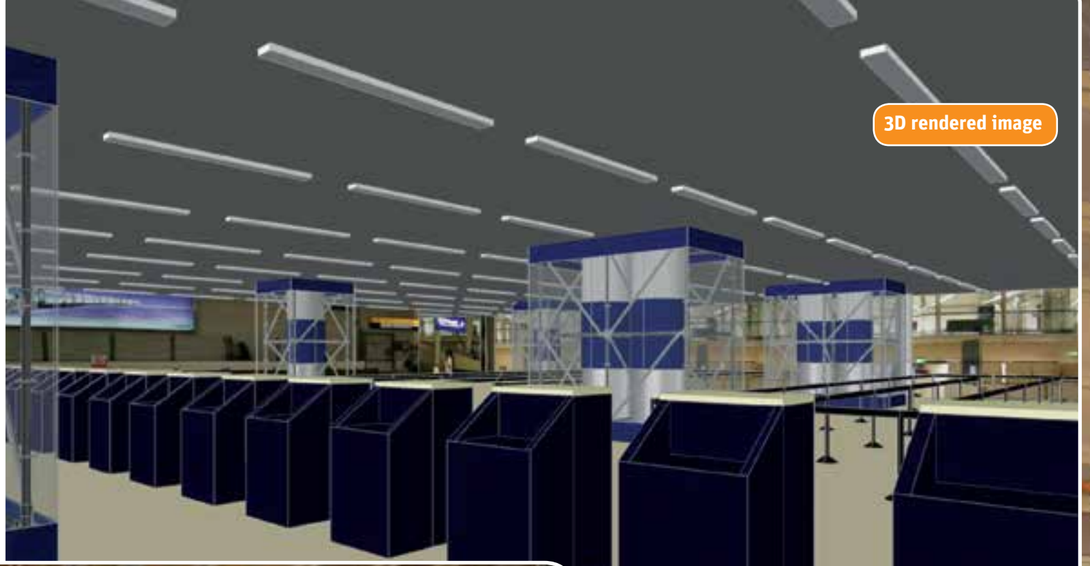
Heathrow Airport

Using system scaffolding enabled tight programme times to be achieved in both construction and access

highways

Overhead power lines

TONE Power Division working during night and day and sometimes for emergency situations across the UK



Scaffolding innovation

TONE Scaffolding won this project with its customer by demonstrating to the ultimate client that the finished structure would not impair the site of the Security Services and Border Control in this sensitive area

design solutions

before ...

after ...

protection

Gatwick Airport

Our challenge was to encapsulate the scaffold structure to enable demolition work during normal working hours this was achieved by using the cladding shown opposite - winning TONE the job and saving the client money and inconvenience to the travelling public

airports

Terminal 5 T5

TONE - a privately owned British company carried out the majority of scaffolding at Heathrow Terminal 5, it was at the time Europe's largest construction site. TONE carried out the majority of the scaffolding for a four year period.

(North Gantry shown)

Staircases

TONE is a specialist in staircase access, from a hop-up stair of 2 or 3 treads to a public fire escapes, to fit any height shape or size

Solutions

Solutions

TONE provides unique solutions to access problems

Heathrow T1

Heathrow Terminal 1 special staircase structure (inset)

Heathrow T4

TONE worked closely with the demolition contractor to avoid disruption to the travelling public

airports

public areas

London

This emergency structure enabled the hotel to remain open and met the challenge of an aesthetically pleasing finish to the scaffold

bridges

M4

Railway bridge maintenance whilst keeping the highways and railways open

M2 Kent

Our specialist power division protecting the motorway

motorways

M25

TONE carry out small one-off structures

bridges

M25

Special structure cantilevered off two bridges over the M25 with special clearance dispensation from the railway. Erected and dismantled at night during short possession times

Gypsy Hill Station

special heavy duty beam enabled us to achieve large spans with suitable loading for our client

rail crossings

Kent

Hanging scaffold erected during short possessions over busy commuter line

industrial innovation

Industrial innovation

One of our Oil & Gas clients challenged TONE to make this huge structure free-standing due to site constraints which we performed using innovative techniques to create a bespoke design

Heathrow T5

Our challenge was to build 3 special gantrys – our system scaffolding enabled this. With tube and fittings it would have been impossible to achieve the huge loading requirement – our alternative to structural steel achieved a significant saving for the client in time and money.

(South Gantry shown)

airports

public access

Crossrail Paddington Station

Due to site constraints TONE produced a feasible ramp and staircase solution to specific design regulation and scope criteria

railway specialist

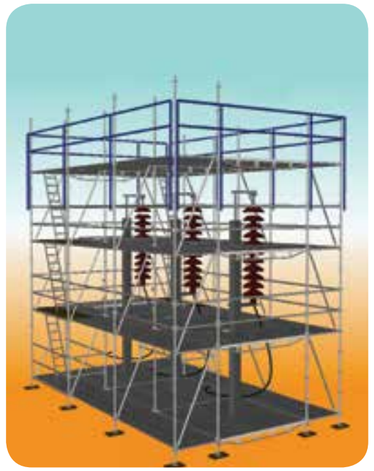
Halifax Station

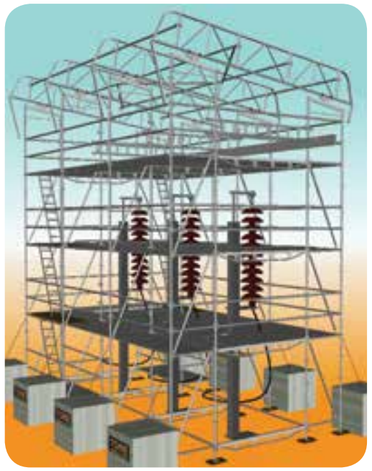
Special railway canopy
encapsulation scaffold

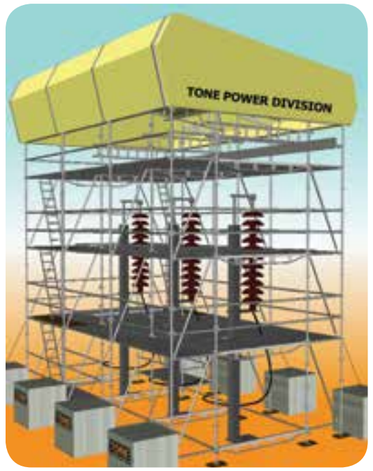
TONE Transport

4x4 or rigid vehicles can meet any challenge of delivery across the UK

logistics

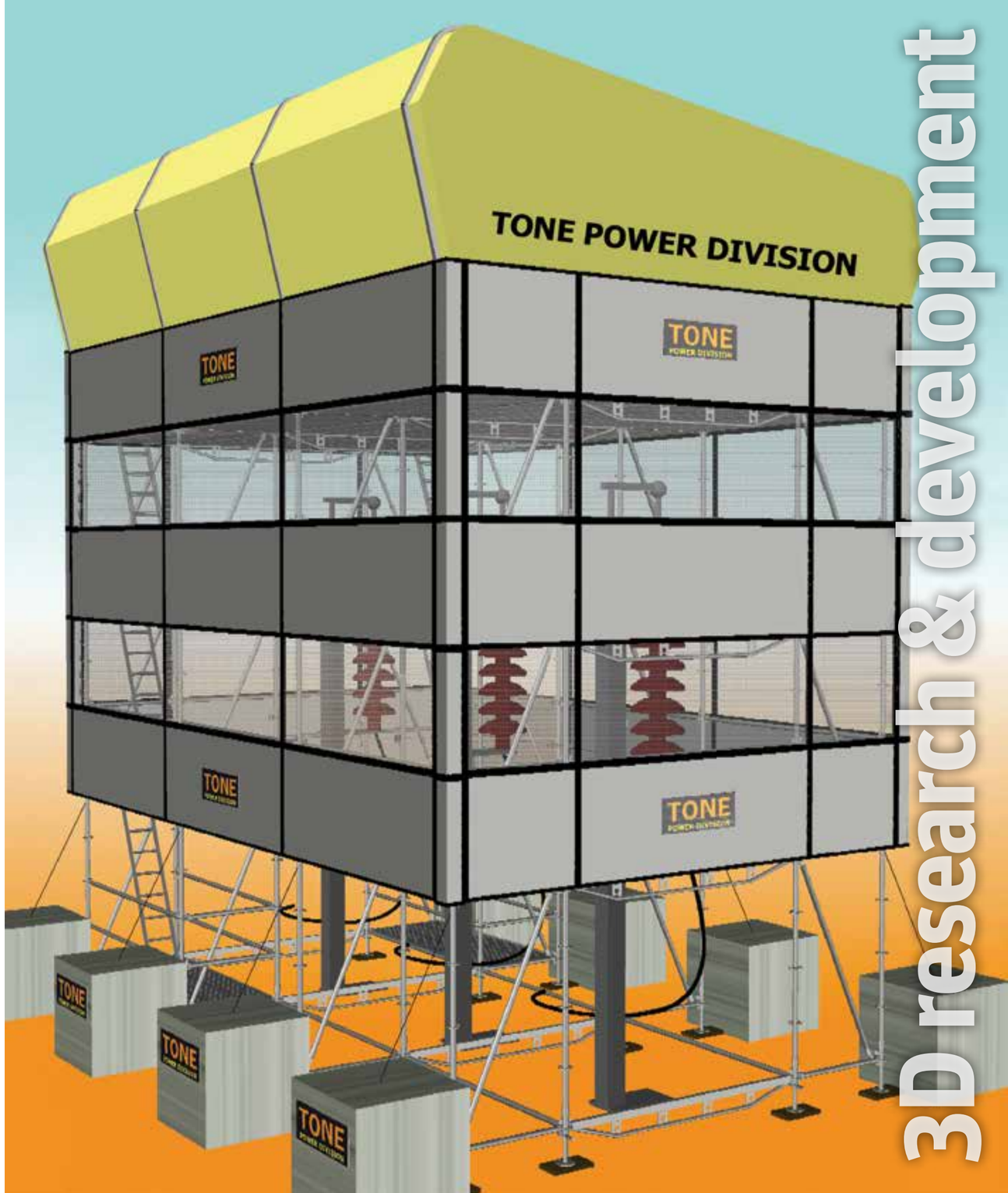






Research and development with design

Saving time and cost by investment and research



rail safety

Safety

Special clearance dispensation was granted to TONE after working closely with our client and Network Rail. This allowed the work to be completed without disruption to the travelling public.

environmental

Environmentally sensitive

TONE works closely with its customers to ensure the countryside and environment are not effected by its activities

3D modelling

3d modelling

Scaffolding terminology is often difficult to interpret. The inhouse design team at TONE can demonstrate to our clients what they will receive for their budget using 3D images

The Tube

TONE produce special bespoke structures across the London Underground station network during very restricted night working periods

underground

emergency

Emergency

TONE operate an emergency service 24hours a day, 365 days a year, responding to - major and minor incidents, fires, wind damage and national disasters anywhere in the UK

Standard structures

TONE carry out many straight forward projects for many different customers

demolition

utilities specialist

Utilities specialist

TONE work on a national basis for the utilities industry

TONE – more than scaffolding

innovation | sustainability | tradition

TONE continuously strive to improve our Safety, Quality and Reliability.

We will consistently provide and maintain safe working conditions, equipment and systems of work for our employees.

We are committed to developing and maintaining a highly trained, experienced and motivated workforce that will be suitably supervised and managed at all time to ensure the safe execution of all projects.

We will continue to design, plan and execute our work with the highest regard to the safety of the people who may be affected by our activities. TONE never has, and will never, sacrifice safety to lower costs.

The assurance of quality is fundamental to all the work undertaken by TONE Scaffolding. TONE Scaffolding Services is a Quality Assured Company in accordance with BS EN ISO 9001:2000.

Call now:

020 8684 3771

TONE Scaffolding Services Ltd
Sky House, 87 - 91 Beddington Lane
Croydon, Surrey CRO 4TD

Email: solutions@tonescaffolding.co.uk

www.tonescaffolding.co.uk

TONE - The Other Needham Enterprise

projects by **TONE**:

standard easy traditional challenging creative

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