

# LIVE DESIGN

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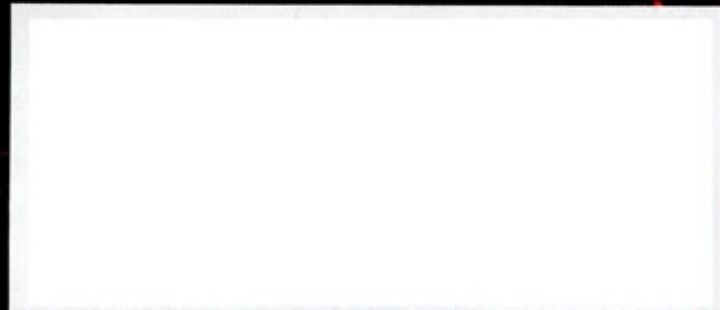
August/September 2009  
Official Magazine of LDI

## the temple of attention

U2 360° in pictures

DAVID GALLO'S  
GERMAN WESTERN

PET SHOP BOYS' CUBIC  
PANDEMONIUM



PROJECTING THE RING CYCLE  
PRG'S BAD BOY  
DIGICO'S SD8



# sphere OF influence

THE U2 360° TOUR IN PHOTOS

There is really only one way to talk about the U2 360° Tour, and that is *not* to talk about it, but to see it. While we've been covering all the technical details—and there are many—on our U2 microsite, we thought we might put a lid on it and just show you the goods in this unique photo essay. For all the details, visit [livedesignonline.com/u2360tour](http://livedesignonline.com/u2360tour).



## design

**Show Designer/Director:** Willie Williams

**Video Screen Concept:** Frederic Opsomer

**Video Screen Kinetic Design:** Chuck Hoberman

**Production Architect/Designer:** Mark Fisher

**FOH Audio Director:** Joe O'Herlihy

**Video Director:** Tom Krueger

**Video Content Producer:** Sam Pattinson

**Video Content:** Catherine Owen

**Video Technical Director:** Stefaan "Smasher" Desmedt

**Presentation Animation:** Adrian Mudd

**Lighting Director:** Ethan Weber

**Associate Lighting Designer:** Alexander Murphy

**Production and Technical Design:** Jeremy Lloyd

**Structural and Membrane Engineering:** Neil Thomas, Atelier One

**Project Leader, Hoberman Associates:** Matt Davis

**Project Engineer, Hoberman Associates:** Ziggy Drozdowski

**Video Screen Structural Engineering:** Buro Happold, New York

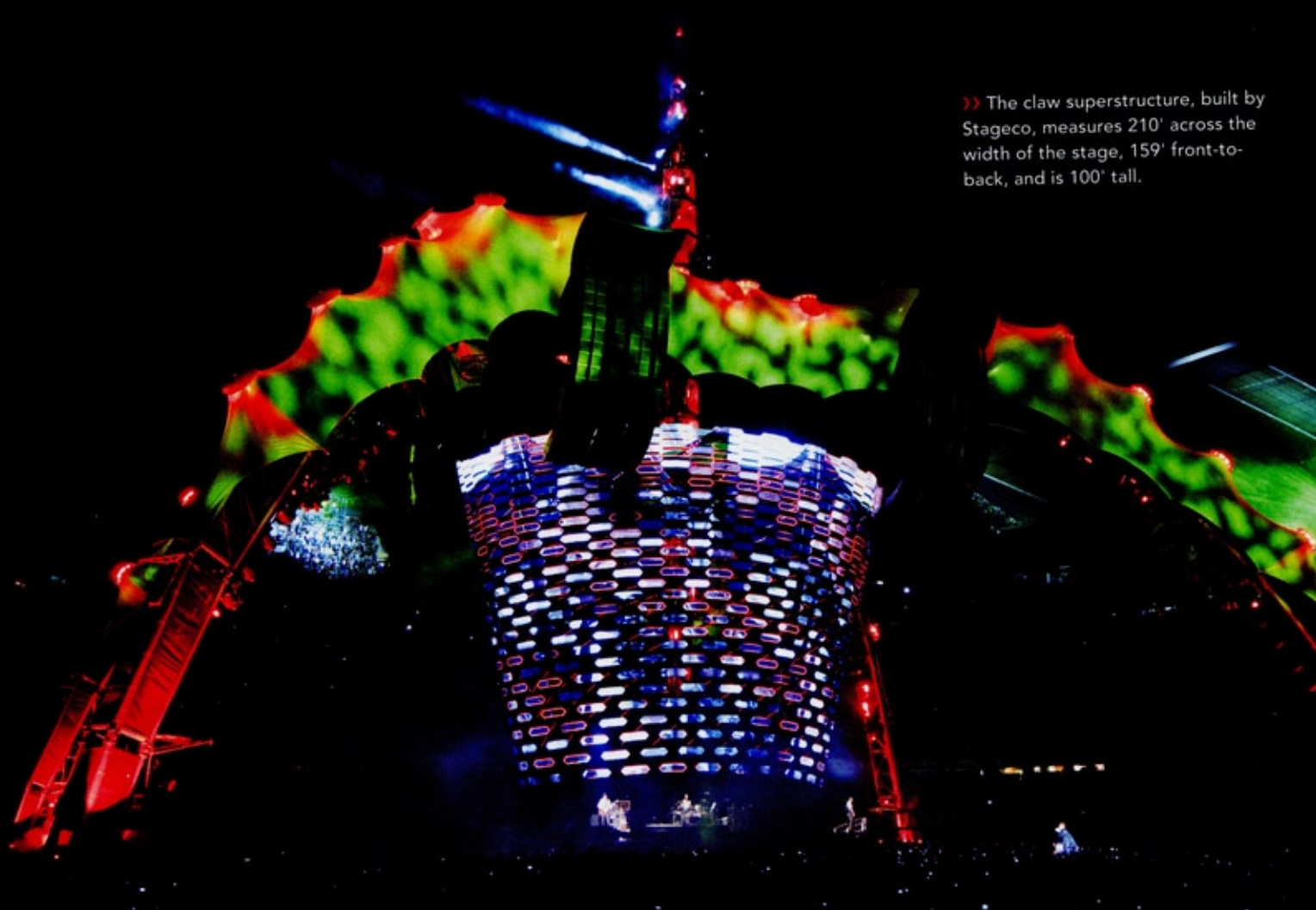
**Lead Structural Engineer, Buro Happold:** Oliver Osterwind

**Video Screen LED System:** Frederic Opsomer

**Membrane Form Finding:** Gavin Sayers, David Dexter Associates

**Technical Coordinator:** Nick Evans

**Video Screen Technical Management:** Richard Hartman



» The claw superstructure, built by Stageco, measures 210' across the width of the stage, 159' front-to-back, and is 100' tall.

## production

**Production Director:** Jake Berry  
**Tour Director:** Craig Evans  
**Stage Manager:** Rocko Reedy  
**Assistant Stage Manager:** George Reeves

**Production Coordinator:**  
 Helen Campbell

**Prod Coordinator:** Jessica Berry  
**Tour Coordinator:** Alison Larkin  
**Lights Crew Chief:** Nick Barton  
**Lighting - Temporary Crew Chief through Paris:** Rodney Clay  
**System Crew Chief:** Craig Hancock  
**Lights - Dimmers/Distro:** Mick Stowe  
**Lights - General/Mains:** Stuart Lee  
**Lights - Hi Platforms:**  
 Russell 'Bits' Lyons

**Lights - Moving Lights:** Andrew Beller  
**Lights - Moving Lights:** Blaine Dracup  
**Lights - Moving Lights:** Jake Sullivan  
**Lights:** Chris Keene  
**Lights:** Jessica LaPoint  
**Lights:** Alison Triplett  
**Lights:** Gareth Morgan  
**Lights:** Christopher Davis

**LED Tech/Crew Chief:** Patrick Van Steelant

**Video Engineer:** Bob Larkin  
**Video Engineer:** Myway Marain  
**LED Tech:** Jan Bonny  
**LED Tech:** Jeroen Mahieu  
**Camera Operator:** Mark Cruikshank  
**Camera Operator:** Gordon Davies

**Camera Operator:** Luke Levitt  
**Camera Operator:** Eoin McLoughlin  
**Video:** Olivier Clybow  
**Video:** Tobias Kokemper  
**Video:** Frederik Gomaere  
**Video:** Jan Paulsen

**Head Rigger:** Todd Mauger  
**Rigger:** Scott Fremgen  
**Rigger:** Robert Slepicka  
**Rigger:** Dion Pearce  
**Head Carpenter:** Flory Turner  
**Assistant Head Carpenter:** AJ Rankin  
**Carpenter:** Gino Cardelli  
**Carpenter:** Johnny Gonzalez Mendez  
**Carpenter:** Andrew Johnstone  
**Carpenter:** Hajime "Haji" Minatodani

**Carpenter:** Jesse Thayer  
**Carpenter:** Appy Thörig  
**Carpenter:** "Sox" Shewmake

**Head of Automation:** Raffaele Buono  
**Automation Tech:** Jack Richard  
**Automation Tech:** Timothy Woo

**Crew Chief and Drum Tech:** Sam O'Sullivan  
**Edge Guitars:** Dallas School  
**Keyboards:** Terry Lawless  
**Adam Clayton Guitar Tech:** Stuart Morgan  
**Electronics Wizard:** Colm 'Fab' McAllister  
**Bono Guitar Tech:** Phil Docherty



» The transformable LED screen was built by Barco and its subsidiary Innovative Designs. The screen, video control, and cameras were supplied by XL Video.

**Wardrobe Associate:** Karen Nicholson  
**Wardrobe Asst:** Chloe Bloch  
**Wardrobe Asst:** Eva Maguire

**Monitor Engineer:** David Skaff  
**Monitor Engineer:** Niall Slevin  
**Monitor Engineer/Recording:** Alistair McMillian


**Consultant :** Robbie Adams  
**Sound Crew Chief:** Jo Ravitch  
**Sound:** Ben Blocker  
**Sound:** Dave Coyle  
**Sound:** Hannes Dander  
**Sound:** Thomas 'Duds' Ford  
**Sound:** Chris Fulton  
**Sound:** Kelsey Gingrich  
**Sound:** Pascal Harlaut

**Sound:** Joel Merrill  
**Sound:** Jason O'Dell  
**Sound:** Vincent Perreux  
**Sound:** Jennifer Smola

**Crew Chief CAT Power:** Jon Boss  
**CAT Power:** Dennis Crespo  
**CAT Power:** Jason McCabe  
**CAT Power:** Erich Nemier  
**CAT Power:** Michael Tagliabue  
**CAT Power:** Francisco Reyes  
**CAT Power:** Jimmy Angerami  
**IT:** Joshua Kapellen  
**Frequencies:** Joshua Flower  
**Health and Safety:** Dave Wilke  
**Ambiance Director:** James Jacques  
**Ambiance Asst:** Mark Caldwell

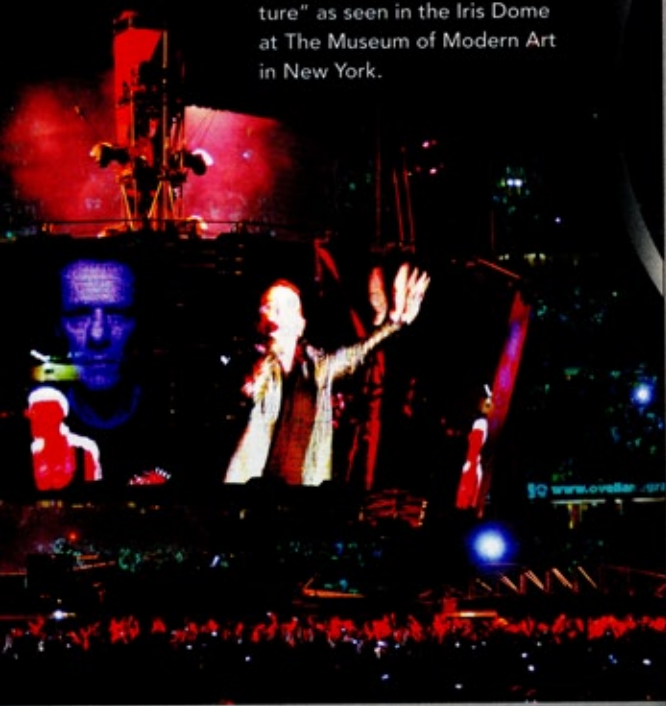
**Tour Accountant:** Ian Jeffery  
**Security Director:** Scott Nichols  
**Personal Chef - Sweet Chili:** Sandy Hylton  
**Catering:** Steve Quinn  
**Catering:** Franca Geppert  
**Catering:** Joshua Ireland  
**Catering:** Courtney Keene  
**Catering:** Tai Lopez  
**Catering:** Lindsay McGoran  
**Catering:** Rob Mullen  
**Catering:** Natalie Parkinson  
**Catering:** Chris Ricalis  
**Catering:** Christian Streppel  
**Catering:** Marisa Zoccolan  
**VIP Party Coordinator:** Jared Braverman

**VIP Party Coordinator:** Jessica Yaccino  
**Red Zone:** Fran Coombs  
**Merch - All:** Paul Nolan  
**Merch - EU:** Graeme Bell  
**Merch EU:** Jonathan Ellis  
**Merch USA:** Richard Carter  
**Production Security Coordinator:** Knute Brye  
**Ticketing and Security Assistant:** Sarah O'Herlihy  
**Ncompass:** Andrew Kloack  
**Ncompass:** Joseph Lucchese  
**Ncompass:** Scott Graves  
**Ncompass:** Carl Lyon  
**Ncompass:** Valerie Adamson



» Willie Williams and Mark Fisher collaborated on the tour design, while Frederic Opsomer contributed the video screen concept and Chuck Hoberman, the screen's kinetic design.

» The expanding video screen is based on a Hoberman sphere and his patented "Iris Structure" as seen in the Iris Dome at The Museum of Modern Art in New York.



» Lighting director Ethan Weber handles all the automated fixtures, while lighting associate Alex Murphy calls all the followspot cues and controls the LEDs in the set and on the roof.



Three versions of the massive set exist, so it takes three set construction crews to tour the structure, affectionately dubbed "The Claw."

## blue steel

**Site Coordinator:** Toby Fleming  
**Advance Caterer:** Adrian Morson  
**Stageco Crew Chief:**  
 Johan 'Bellekes' Van Espen

**For Stageco:**  
 António Alves Monteiro  
 Tim Beckers  
 Olaf Brinkmann  
 Austin Brown  
 Cees Dazler  
 Arne De Knecht  
 Jo De Wit  
 Mark Gandy  
 Wilco Geerts

Rene Havermans  
 Jonathan Hawkins  
 Jan Heylen  
 Hans Koersen  
 Tambani Lokoza  
 Franz Rieger  
 Jasper Ruebens  
 Franciscus Schilte  
 Kurt Schneider  
 Sonya Schubert  
 Yuri Sparidaans  
 Tom Strauf  
 Karsten Truyens  
 Michiel van den Boomen  
 Roman Van Den Dugen  
 Martin van Eijk  
 Jan van Eyck  
 Johan Van Lieshout  
 Jesse Winn

Jimmy Termaat  
 Carly Thomas  
 Janneman Van Battum  
 Bart Van Damme  
 Marco Van de Beek  
 Michel Van Der Veken  
 Erwin Van Duyse  
 Mark van Gorp  
 Jozef Vermeerbergen  
 Gregory Vervoort  
 Jaap Vriens  
 Norbert Wiesinger  
 Ryan Worsham

## green steel

**Site Coordinator:** Seth Goldstein  
**Advance Caterer:** Matthew Pierce  
**Stageco Crew Chief:** Hendrik Verdeyen

**For Stageco:**  
 Milt Angelopoulos  
 Jason Bond  
 Wim Carens  
 Wilfried Celen  
 Huckle Cleary  
 Ken De Roovere  
 Andreas Eibl  
 Randall Ellson  
 Magnus Harding  
 Iain Hardwick  
 Ben Hommers  
 Hugues Imschoot  
 Johan Jonckheere  
 Oisín Kelly  
 Janos Kerekgyarto

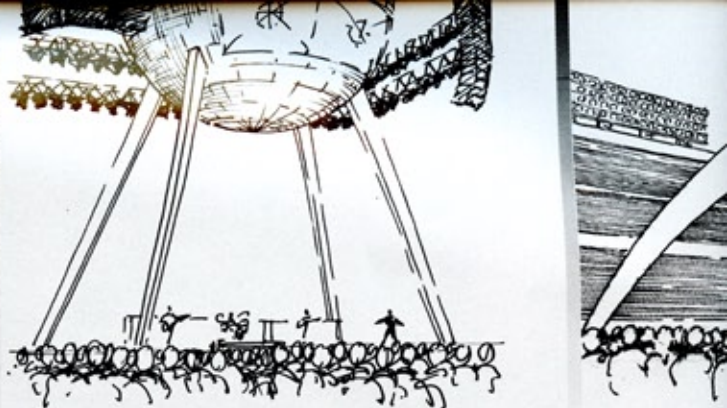
Jurgen Krauts  
 Patrick Lively  
 Erik Muhm  
 Florian Sadrawetz  
 Chris Staal  
 Benny Sterckx  
 Joerg Strobel  
 Marc Van Dijck  
 Rudi van Hool  
 Christophe Van Hostauijen  
 Maarten van Kruisjdijk  
 Pieter van Tulder  
 Florus Van Zaten  
 Bill Yager

**Field Cover:** Okan Tombulca  
**Field Cover:** Sebastian Tobie  
**Field Cover:** Dirk Boda  
**Field Cover:** Dirk Henneberger  
**Field Cover:** Matthew Kelly  
**Field Cover:** Richard Dunne

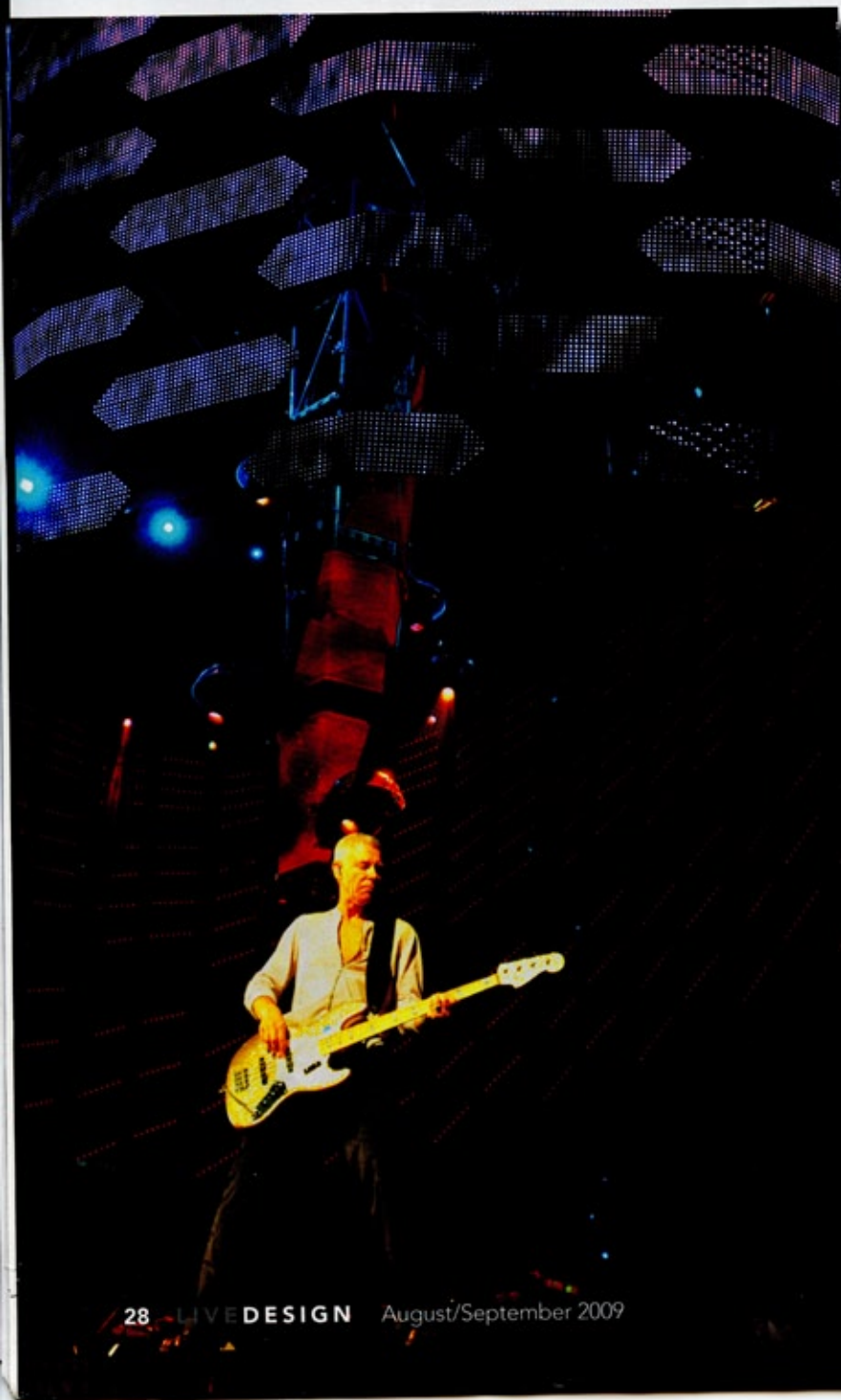
## red steel

**Site Coordinator:** Robert Hale  
**Advance Caterer:** Paul Kennedy  
**Stageco Crew Chief:** Patrick Martens  
**For Stageco:** Kim Achterberg

Koen Daems  
 Eivind Haugen  
 Ludo Hoebrechts  
 Stefan Jans  
 Christopher Lanosga  
 David 'Cinch' Lanosga  
 Marcel Leederts  
 Thomas Lomanto  
 Marc Melotte  
 Dalibor Misura  
 Lothar Schader  
 Lennart Siik  
 Bjorn Steegen  
 Robert Szerszyn

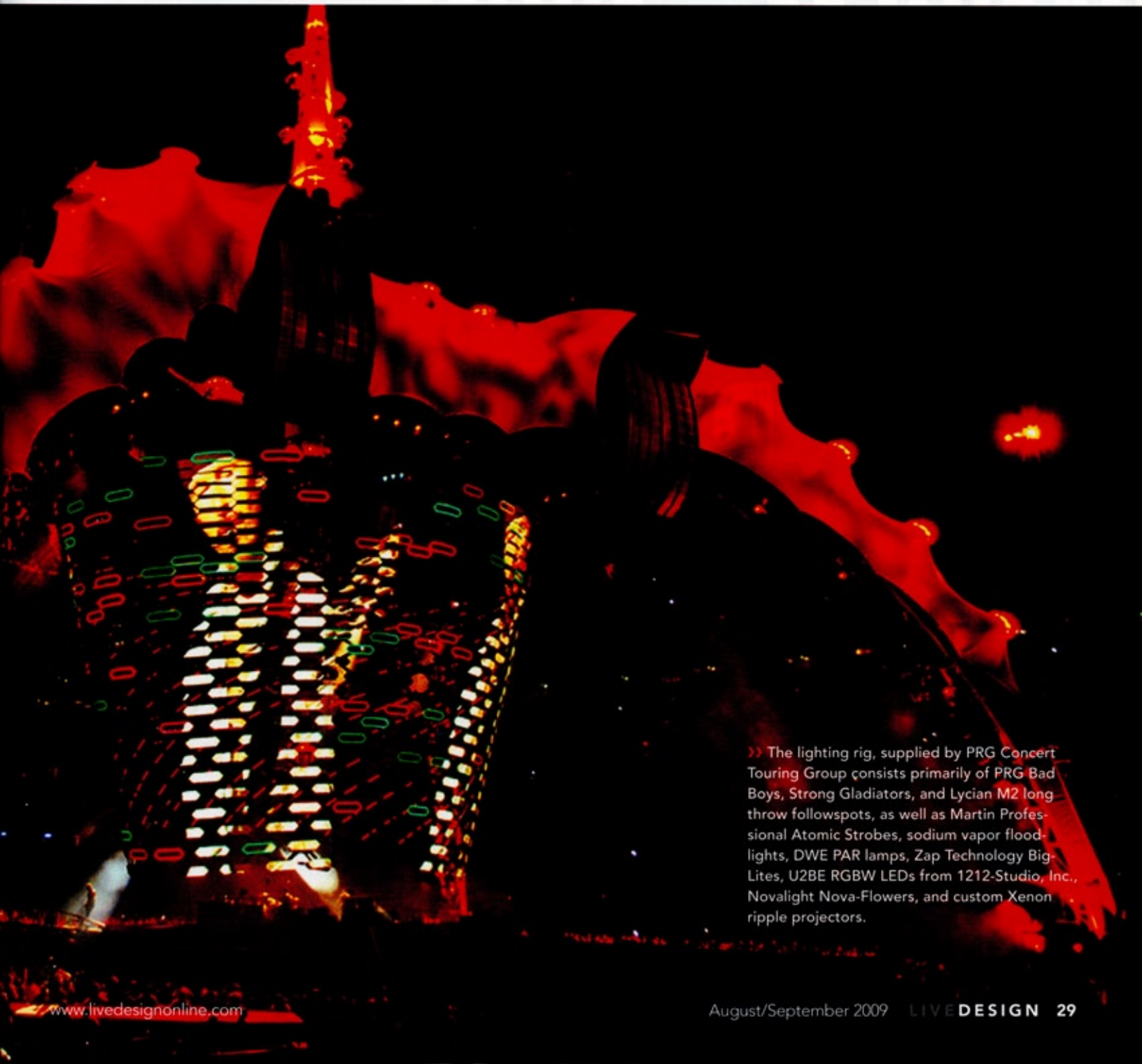
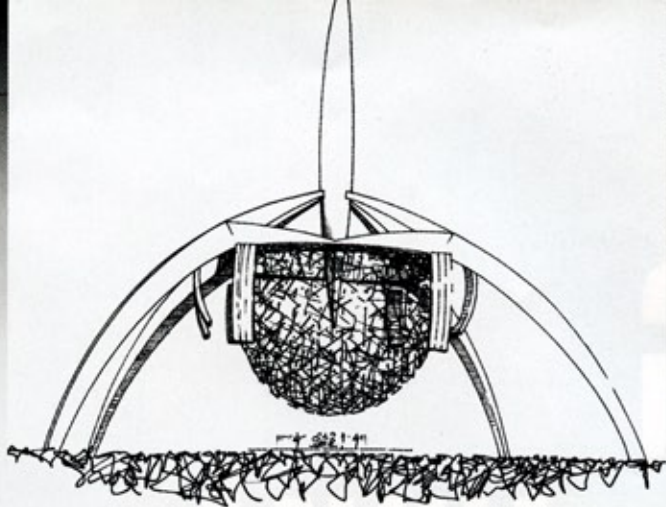
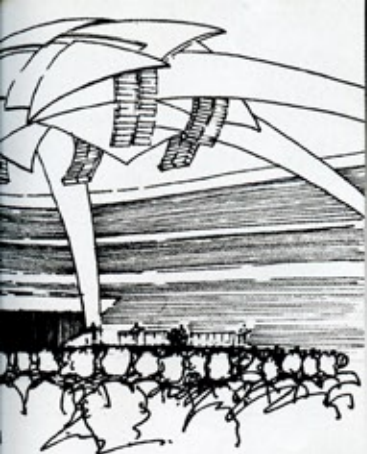


» Early conceptual sketches (far left) for the production date back to ideas hatched during the *Vertigo* tour, and the design took on several iterations before landing where it is today (far right).



## vendors

**Primary Steelwork Fabrication:** Stageco  
**Main Stage, "B" Stage and Bridge Fabrication:** Tait Towers  
**Video Screen Fabrication:** Innovative Designs  
**Video Screen Truss Fabrication:** Wi Creations  
**Video Screen Automation:** Kinesys Projects Limited  
**Membrane Fabrication:** Architen Landrell Associates  
**Polyp Mushrooms:** Steel Monkey Engineering  
**Motion Control System Design:** Kinesys  
**Cigar/Pylon/Spire:** Brilliant Stages  
**PA System:** Clair Brothers  
**Lighting System:** PRG Inc.  
**Video System:** XL Video



» The lighting rig, supplied by PRG Concert Touring Group consists primarily of PRG Bad Boys, Strong Gladiators, and Lycian M2 long throw followspots, as well as Martin Professional Atomic Strobes, sodium vapor floodlights, DWE PAR lamps, Zap Technology Big Lites, U2BE RGBW LEDs from 1212-Studio, Inc., Novalight Nova-Flowers, and custom Xenon ripple projectors.