

# **HS2 Enabling Works Heritage Sub Group**

Costain-Skanska Joint Venture 12<sup>th</sup> June 2018





**SKANSKA** 

Fast Track for Britain's Future

### Agenda:



- Activities Summary
- Update on live sites
- Community Engagement Activities
- Stakeholders
- Innovation
- Planned Works
- Questions

### **Activities Summary S2/S4:**



- Completion of strategic approach for S2/S4 works
- 18" and 48" main diversions works
- Site visits to upcoming works in Old Oak Common, Victoria Road and land within Colne Valley
- Preparation for Historic Building Surveys at Old Oak Commons Short Stabling Shed
- Asset assessment OOC Short Stabling Shed to ensure asset retention where possible

### **Activities Summary S1/S3:**



- Start of additional archaeological trial trenches to complete tent footings for St James's Gardens main dig
- Removal of 405 gravestones from St James's Gardens
- Trialling UAV Technology for 3D model progress shots
- Trialling UAV Technology for volumetric assessments
- Community Engagement 100 volunteers working on gravestone recording and archival research
- Stakeholder engagement
- HAMS ESG Railings/ Royal College General Practitioners/ Obelisk to Baron Southampton/ Christie Memorial in preparation
- Design for Historic Environment themed community garden at Hampstead Road offices, Euston

### St James's Gardens, S3





Image taken on 17<sup>th</sup> May by CSjv UAV team to show site progress



### St James's Gardens, S3



- 6 foundation trenches opened
- 4 trenches proved in advance of works
- 405 funerary monuments identified and removed
- 628 burials removed to date (inc. 3 lead)
- 6 large vaults identified within the upper ground



### **Trench C1: Excavation**



- Now identified as tomb of William Barclay – established 1807 (Marker stone W.B 1807 shown above right)
- Barclay was a noted Tallow
   Chandler who supplied candles to
   the wealthy of London including
   Royalty. Change in social status led
   him to exhume members of his
   family from the third ground to be
   reinterred in the newly constructed
   vaults
- Vault roof removed: 5 burials identified in total 3 adults and 2 children
- 2 lead coffins removed
- 3 wood coffins





### **Activities in S2/S4**





### S4 - Old Oak Common



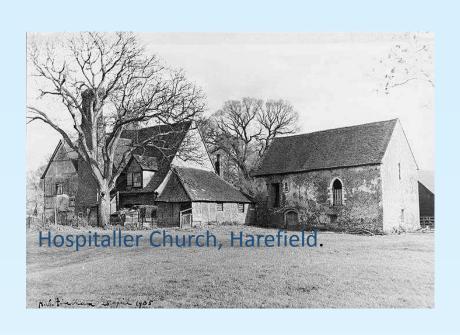
- Forthcoming works on the Short Stabling Sheds ahead of demolition:
  - Level 2 Historic Building Recording
  - Salvage assessment and liaison with heritage groups



### S2 -West Ruislip Portal to Dews Farm



- First tranche of noninvasive investigations scheduled:
  - DDBA on Monastic and Medieval activity in the Pinn Valley and Harefield.
  - Re-assessment of geophysical data – collaboration with Academic Partners



# Lithics from floodplain of the Newyear's Bourne Safe at heart





### **Gravestones: 405 lifted to date Community Engagement Volunteer Recording**





Local volunteers working with MOLA Headland recording gravestones in secure work area on Cardington Street.

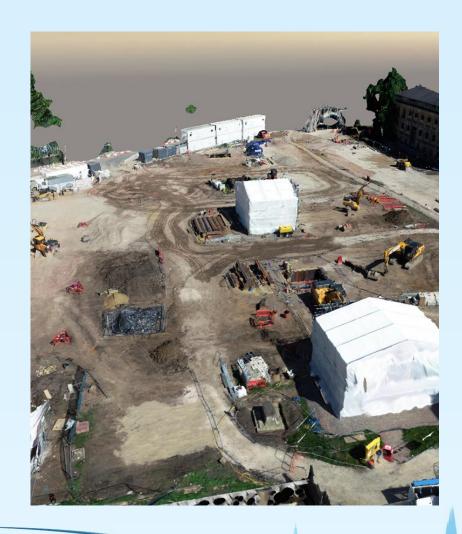
100 individuals volunteered over the process over 4 weeks

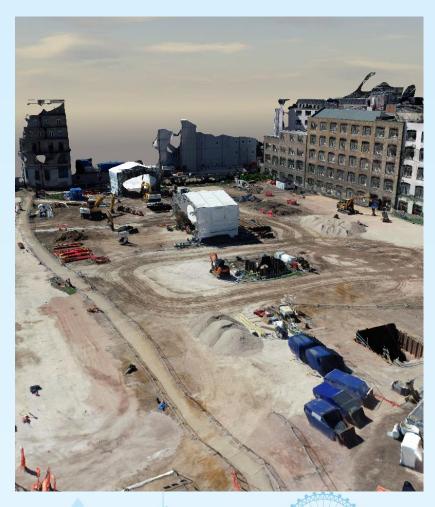




# Innovations: UAV Technology for 3D Modelling and Volumetrics





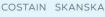


## Innovations: Digital Recording Process Goes to HS2 Innovations Panel 25<sup>th</sup> June



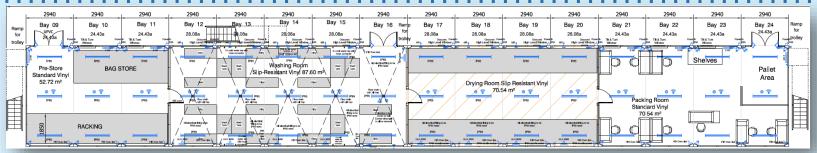
- Rapid recording of skeletalised remains and coffin furniture
- Instant data base generated
- Multi-user platform
- Aids in training of new team members
- Improves quality of archive
- Contributes to LEAN Planning platform





# The Application of LEAN Principles and Ergonomics





**Cardington Street Processing Laboratory** 

- Reviewed/assessed a number of typical archaeological work environments
- Applied Ergonomic workflow principles to improve efficiency, environment and overall health and wellbeing of our staff
- Applying a 'Continuous Improvement' process, utilising operative knowledge and engaging with our teams
- Use of Value Stream Mapping to engage with staff to understand and remove obstacles and process blockers
- Visual Management Tools to highlight progress and show benefit of improvements

#### Where we've applied this?

- Tent Design
- Processing areas
- Lab areas
- Storage/Drying facilities
- Site Layout
- KPI design
- Capacity management
- Data Modelling Spoil rates, density impact, depth changes



#### **Upcoming Activities:**



#### **S1/S3**

- Historic Building Surveys including Bree Louise, 1-3 Cobourg, Thistle Hotel, Walkden House
- MSc Students and student placements at SJG from University of Bradford & Durham
- Construction of the "big tent" in SJG
- Monitoring of Historic Buildings at Euston
- Removal of assets under Schedule 18 Table 1
- Time Truck events for Schools

#### S2/S4

- West Ruislip Golf Course Works Geophysics/ Test Pitting/ Evaluation Trenching and
- New Years Green Common multiple comparative geophysical techniques
- New Years Bourne Augering, deposit modelling and other geo-archaeological works
- Collaboration with specialists SUMO & University of Bradford

