

ENGINEERING & EXPEDITING SERVICES

HOWARD I. SHAPIRO & ASSOCIATES

2021

WWW.HISASSOC.COM
INFO@HISASSOC.COM
(516) 791-2600

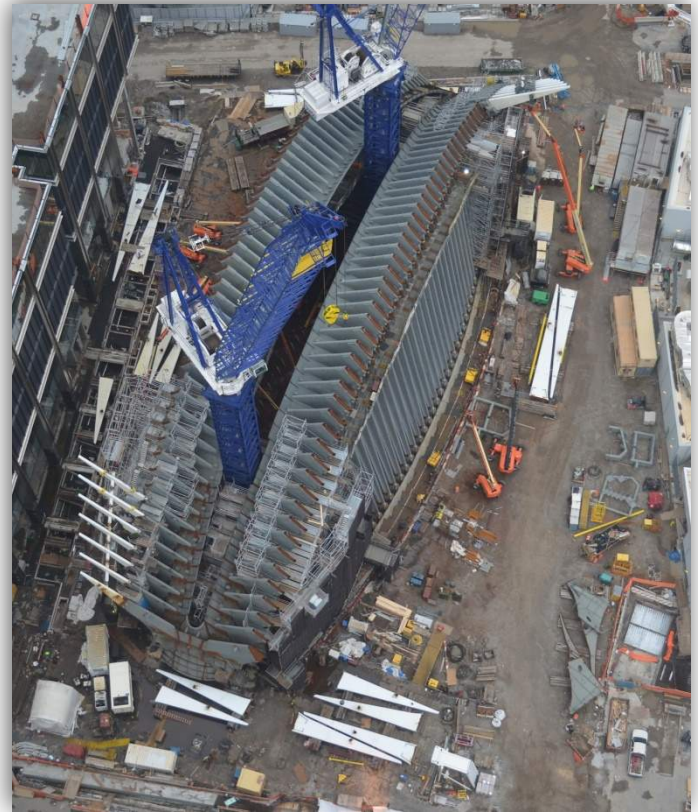


HOWARD I. SHAPIRO
& ASSOCIATES
CONSULTING ENGINEERS, P.C.



Tower Crane Services

- Tower crane type and model selection and logistics planning
- Design of simple or complex tower crane foundations and support systems
 - Design of climbing systems and basket climbing/support systems
 - Design of “diving board” support frames cantilevered from building structures
- Development of climbing schedules
- Erection & dismantling plans utilizing mobile cranes or derricks
- Peer review of tower crane foundation, tie design and logistics
- Accident investigation & recovery
- NYC Expertise:
 - Crane Notice (CN) engineering & filing with NYC DOB Cranes & Derricks Division
 - CN Amendment engineering & filing
 - Filing tower crane plans with all agencies in the Tri-State Area, including NYC Transit Authority, Amtrak, LIRR, Port Authority, FAA
 - Filings for variances, renewals and all permits related to tower cranes with NYC DOB
 - Prototype filing with NYC DOB Cranes & Derricks Division
 - CD registration with NYC DOB Cranes & Derricks Division



Mobile Crane Services

- Mobile Crane installation engineering
 - Advise on crane selection
 - Design of crane support on simple or complex conditions such as building floors
 - Engineering of tandem picks
 - Engineering crane installations for demolition or dismantling of structures
 - Tower crane erection and dismantling
 - Post-accident recovery of cranes
- Mobile crane logistics planning
 - Crane Configuration selection for difficult hoisting geometry
 - Crane location selection for difficult or constricted sites
- Peer review of mobile crane installations and usage plans



- NYC Expertise:
 - Crane Notice (CN) Engineering, filing and controlled inspections with NYC DOB Cranes & Derricks Division
 - CN Amendment engineering & filing
 - Filing mobile crane plans with all agencies in the Tri-State Area, including NYC Transit Authority, Amtrak, LIRR, Port Authority, FAA
 - Filings for variances, renewals and all permits related to use of mobile cranes with NYC DOB
 - Preparation and filing of applications for NYC Prototype Approval of Mobile Cranes, Pile Drivers, Articulating Boom Cranes
 - Prototype filing with NYC DOB Cranes & Derricks Division
 - CD registration with NYC DOB Cranes & Derricks Division



Derrick Installation Design

- Logistics planning for derrick installation & operation for building construction, façade replacement, HVAC or generator hoisting, tower crane dismantling
- NYC Expertise: Crane Notice (CN) engineering and filing with NYC DOB Cranes & Derricks

Logistics & DOT Permitting

- Logistics plans for all types of construction: new buildings, major alterations, demolition and crane usage in NYC
- NYC Expertise:
 - NYC DOT New Building Logistics Planning and Approval
 - Filing for new and renewal of DOT permits for construction work
 - DOT approval of relocation of parking meters, bus stops, agency parking
 - Release of agency holds on DOT permits
 - DOT OCMC Meetings
- NY State DOT logistics & approvals



Site Safety Plans

- SSP to be filed with NYC DOB
- SSP not requiring filing with NYC DOB
- Amendments to approved SSP
- Resolution of Stop Work Orders

Demolition Engineering

- Engineering for full or partial demolition of buildings and other structures
 - Evaluation of demolition equipment loading on floors/ structure being demolished
 - Stabilization and engineered demolition of partially collapsed structures
- NYC Expertise: engineering for full demolition and alteration plans to be filed with NYC DOB

Means & Methods Engineering

- Bracing design
- Shoring design
- Temporary structure design
- Work platform design

Rigging & Special Lifting

- Design of custom lifting solutions
- Engineering for rigging plans

Forensic Engineering

- Construction accident investigation
- Expert testimony

