ABELL-HOWE

FREEDOM FRAME™

MADE IN THE USA — RECOGNIZED WORLDWIDE FOR UNSURPASSED PERFORMANCE™

CMAA
CRANE MANUFACTURERRS ASSOCIATION OF AMERICA, INC. MEMBER COMPANY

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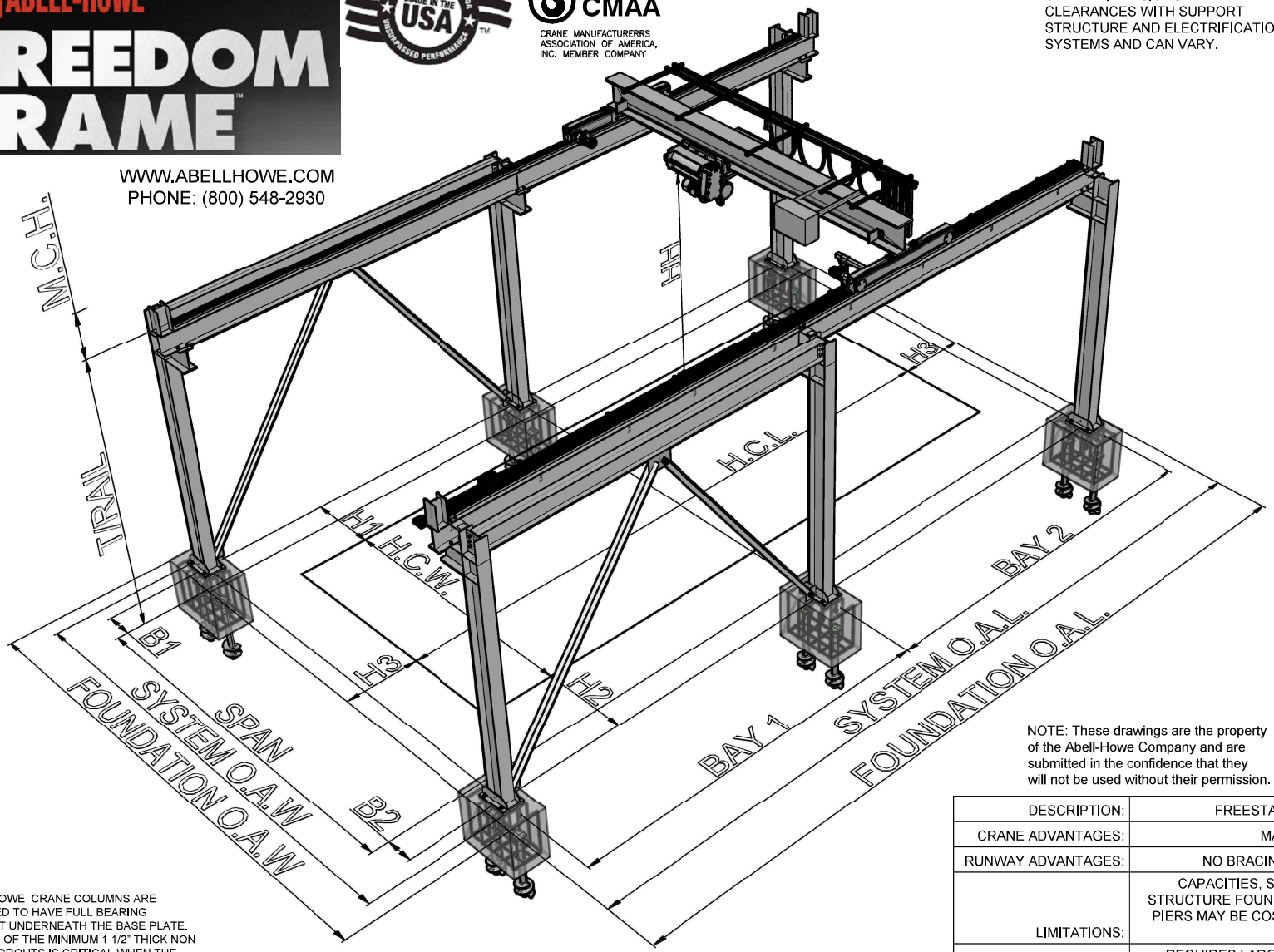

HOOK COVERAGES ARE BASED ON CRANE DIMENSIONS AND CLEARANCES WITH SUPPORT STRUCTURE AND ELECTRIFICATION SYSTEMS AND CAN VARY.

RUNWAY SYSTEM TYPE:	TYPE 3B
CRANE TYPE:	TOP RUNNING
TIE BACK TO BUILDING	NO
TYPE OF LATERAL BRACING	TIEBACK TO CRANE COLUMN
LONGITUDINAL BRACING @ ENDS	MAY BE REQUIRED
LONGITUDINAL BRACING @ MID BAYS	REQUIRED
FLANGE BRACING	MAY BE REQUIRED
CRANE FOUNDATION REQ'D	YES
SPAN	
B1	
B2	
O.A.W. (OVER ALL WIDTH)	
T/RAIL (TOP OF RAIL)	
M.C.H.(MAX CRANE HEIGHT)	
SYSTEM O.A.L. (OVER ALL LENGTH)	
BAY 1	
BAY 2	
ADDITIONAL BAYS	
FOUNDATION O.A.W. (OVER ALL WIDTH)	
FOUNDATION O.A.L. (OVER ALL LENGTH)	
HH (HOOK HEIGHT)	
H1	
H2	
H3	
H.C.L. (HOOK COVERAGE LENGTH)	
H.C.W. (HOOK COVERAGE WIDTH)	

DESCRIPTION:	FREESTANDING RUNWAY ON HAUNCHED COLUMNS
CRANE ADVANTAGES:	MAX HOOK HEIGHT CAN BE ACHIEVED
RUNWAY ADVANTAGES:	NO BRACING BACK TO EXISTING BUILDING STRUCTURE
LIMITATIONS:	CAPACITIES, SPANS ARE ONLY LIMITED TO EXISTING BUILDING STRUCTURE FOUNDATION INTERFERENCES AND DIMENSIONS. HELICAL PIERS MAY BE COSTLY TO INSTALL OR RESTRICTED DUE TO BUILDING HEIGHT.
COMMENTS:	REQUIRES LARGE FOUNDATIONS, HELICAL PIERS CAN BE USED TO REDUCE SIZE OF FOUNDATIONS.
ENGINEERING:	SOIL PRESSURE ANALYSIS MUST BE DONE TO DETERMINE FOUNDATION SIZE
INSTALLATION:	GROUTING OF COLUMNS IS REQUIRED FOR LEVELING AND FULL BEARING SUPPORT.

ABELL HOWE CRANE COLUMNS ARE DESIGNED TO HAVE FULL BEARING SUPPORT UNDERNEATH THE BASE PLATE. THE USE OF THE MINIMUM 1 1/2" THICK NON SHRINK GROUTS IS CRITICAL WHEN THE FOUNDATION SURFACE IS NOT EVEN OR LEVEL. WHEN GROUTING IS NOT USED, IT IS THE CUSTOMER'S RESPONSIBILITY TO ENSURE THAT THE FOUNDATION SURFACE IS LEVEL AND SMOOTH AS WELL AS MAKING SURE THERE IS FULL BEARING SUPPORT UNDERNEATH THE BASE PLATE.

LIABILITY NOTICE: Abell-Howe crane, assumes no responsibility for loading imposed on building structure or footings by this equipment. We suggest this be checked by a licensed structural engineer and any necessary permits be secured.