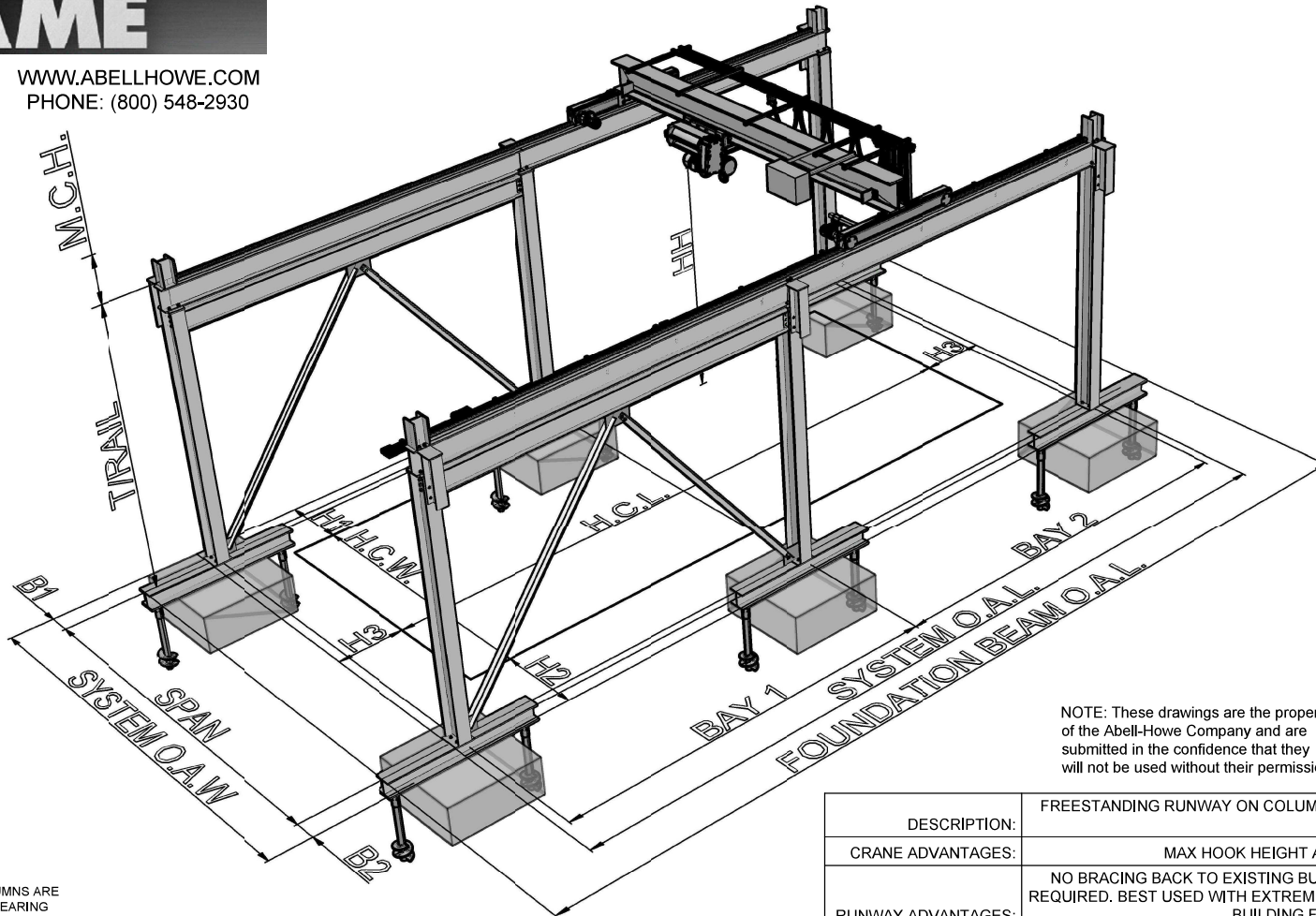


# ABELL-HOWE FREEDOM FRAME™

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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 6C
CRANE TYPE:	TOP RUNNING
TIE BACK TO BUILDING	NO
TYPE OF LATERAL BRACING	TIEBACK TO STUB BRACE
LONGITUDINAL BRACING @ ENDS	MAY BE REQUIRED
LONGITUDINAL BRACING @ MID BAYS	REQUIRED
FLANGE BRACING	MAY BE REQUIRED
CRANE FOUNDATION REQ'D	NO
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 BEAM O.A.L. (OVER ALL LENGTH)	
HH (HOOK HEIGHT)	
H1	
H2	
H3	
H.C.L. (HOOK COVERAGE LENGTH)	
H.C.W. (HOOK COVERAGE WIDTH)	

NOTE: These drawings are the property of the Abell-Howe Company and are submitted in the confidence that they will not be used without their permission.

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.

DESCRIPTION:	FREESTANDING RUNWAY ON COLUMNS WITH TIE STUB BRACES WITH GRADE BEAMS AND HELICAL PIERS
CRANE ADVANTAGES:	MAX HOOK HEIGHT AND CRANE SPAN CAN BE ACHIEVED.
RUNWAY ADVANTAGES:	NO BRACING BACK TO EXISTING BUILDING STRUCTURE. NO CRANE FOUNDATIONS ARE REQUIRED. BEST USED WITH EXTREME SPACE RESTRICTIONS AND AVOIDANCE OF EXISTING BUILDING FOUNDATIONS IS REQUIRED.
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:	GRADE BEAMS ARE BURIED INTO FLOOR BY CONCRETE. LOCATION OF EXISTING FOOTINGS MUST BE FOUND.
ENGINEERING:	SOIL PRESSURE ANALYSIS MUST BE DONE TO DETERMINE GRADE BEAMS AND HELICAL PIER DEPTH
INSTALLATION:	GROUTING OF COLUMNS IS REQUIRED FOR LEVELING AND FULL BEARING SUPPORT.