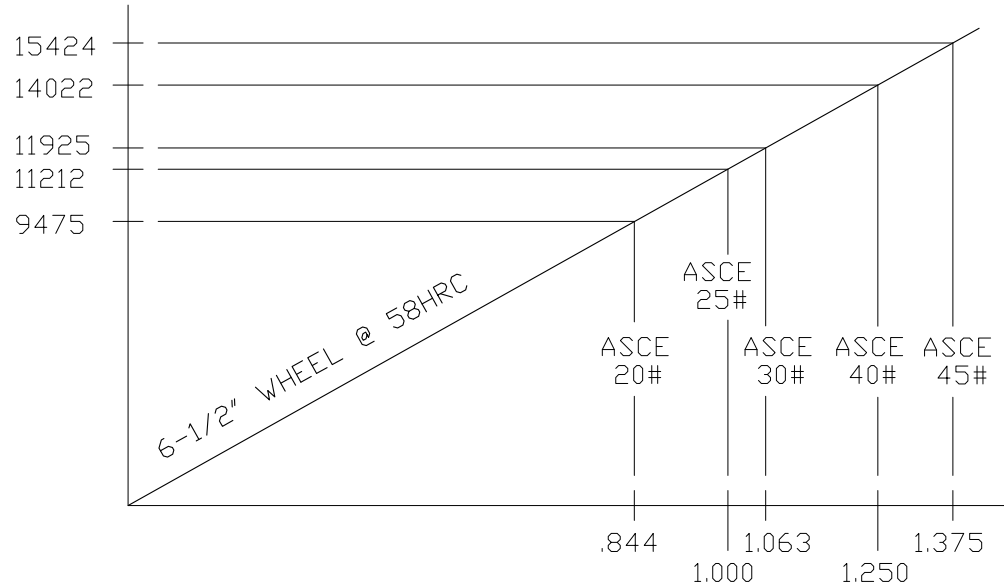


WHEEL LOAD [#]

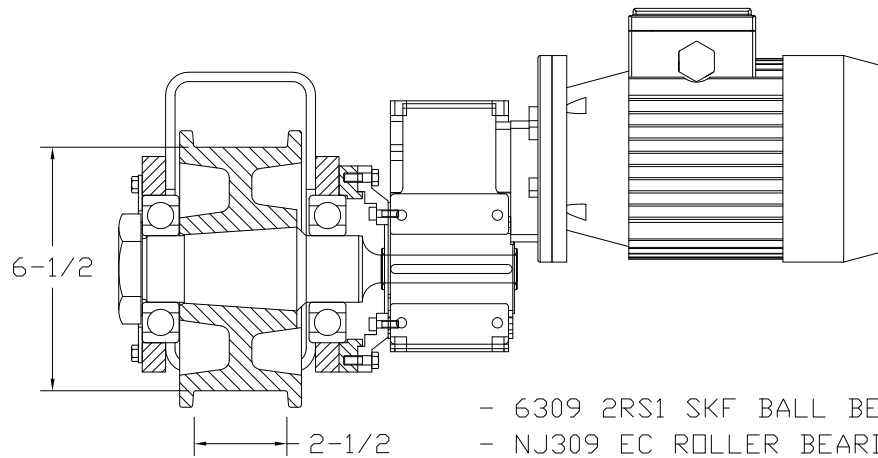


THE MAX WHEEL LOAD IS A COMBINED FUNCTION OF THE FOLLOWING FACTORS

- RUNWAY ACCURACY
- CRANE ACCURACY
- DUTY CYCLE
- OPERATING CONDITIONS
- COMPONENT STRESS LIMITS

IT IS RECOMMENDED TO ADHERE TO THE CHART FOR WHEEL LOAD LIMITATIONS BUT THE WHEEL LOAD REQUIREMENTS CAN BE DERATED BASED ON SPECIFIC DUTY CYCLE APPLICATION

EFFECTIVE RAIL WIDTH ["]



- 6309 2RS1 SKF BALL BEARINGS (STANDARD)
- NJ309 EC ROLLER BEARINGS (OPTIONAL) FOR SHOCK LOADING APPLICATIONS



DETROIT HOIST & CRANE CO.

MAXIMUM WHEEL LOAD CHART
 ACCORDING TO CMAA TABLE 4.7.1-4
 6-1/2" WHEEL (GRAPHITE DUCTILE IRON)

CHART#

HRC-6

DRAWN BY / DATE

A.B. / 04-29-09

NOTE: X

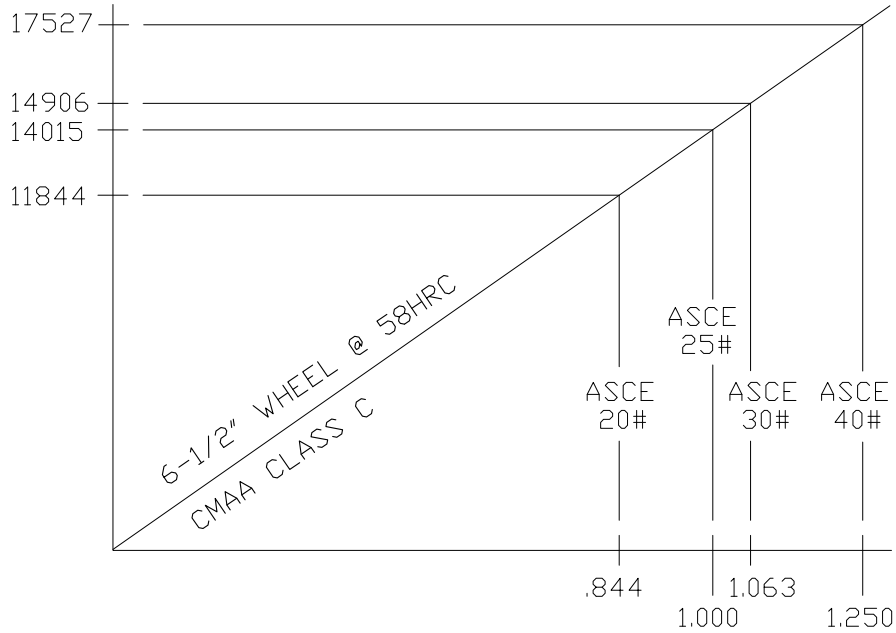
NOTE: X

NOTE: X

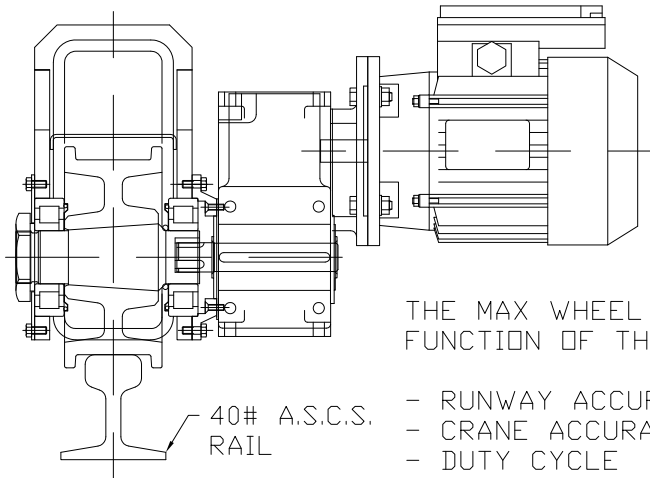
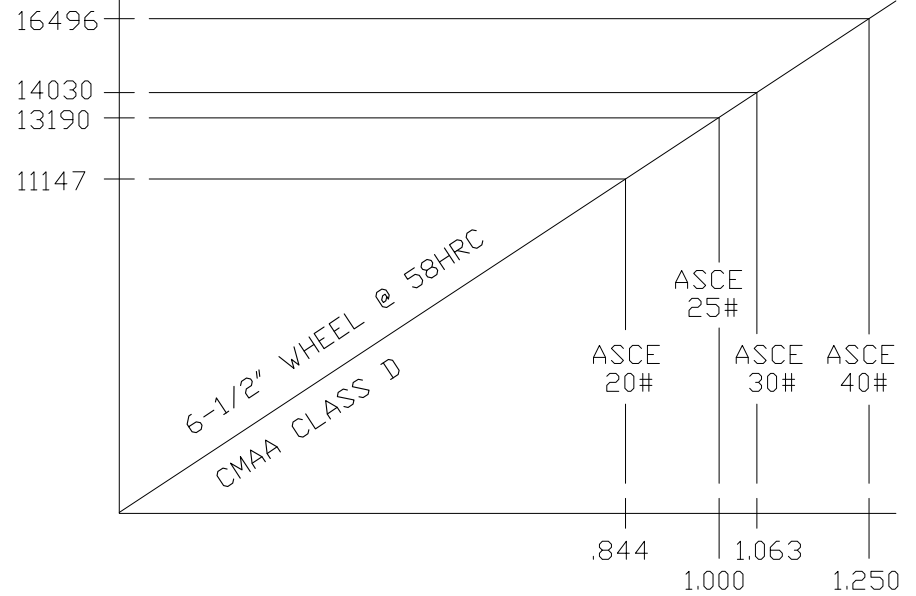
SCALE 1:X

DIRECTORY \

EQUIVALENT DURABILITY
WHEEL LOAD P_e [#]



EQUIVALENT DURABILITY
WHEEL LOAD P_e [#]



THE MAX WHEEL LOAD IS A COMBINED FUNCTION OF THE FOLLOWING FACTORS

- RUNWAY ACCURACY
- CRANE ACCURACY
- DUTY CYCLE
- OPERATING CONDITIONS
- COMPONENT STRESS LIMITS

WE RECOMMENDED TO ADHERE TO THE CHART FOR WHEEL LOAD LIMITATIONS

BEARINGS: SKF NUP EXPLORER ROLLER BEARING SERIES 3 SEALED AND SHIELDED / LUBRICATED FOR LIFE

- THESE PREMIUM QUALITY ROLLER BEARINGS ALLOW FOR HIGH DYNAMIC AND STATIC RADIAL LOADING AS WELL AS AXIAL LOADING UP TO 45% FOR THIS APPLICATION
- THE EXPLORER BEARINGS ARE MUCH BETTER SUITED FOR ENDTRUCKS THAN TAPERED ROLLER BEARINGS SINCE THEY CAN BE SEALED/SHIELDED AND DO NOT REQUIRE AXIAL PRE-LOADING, ADJUSTMENT OR MAINTENANCE



DETROIT HOIST

MAXIMUM WHEEL LOAD CHART
ACCORDING TO CMAA TABLE 4.7.1-4
6-1/2" WHEEL (GRAPHITE DUCTILE IRON)

CHART#
HRC-6R

DRAWN BY / DATE
A.B. / 01-08-10

NOTE: X

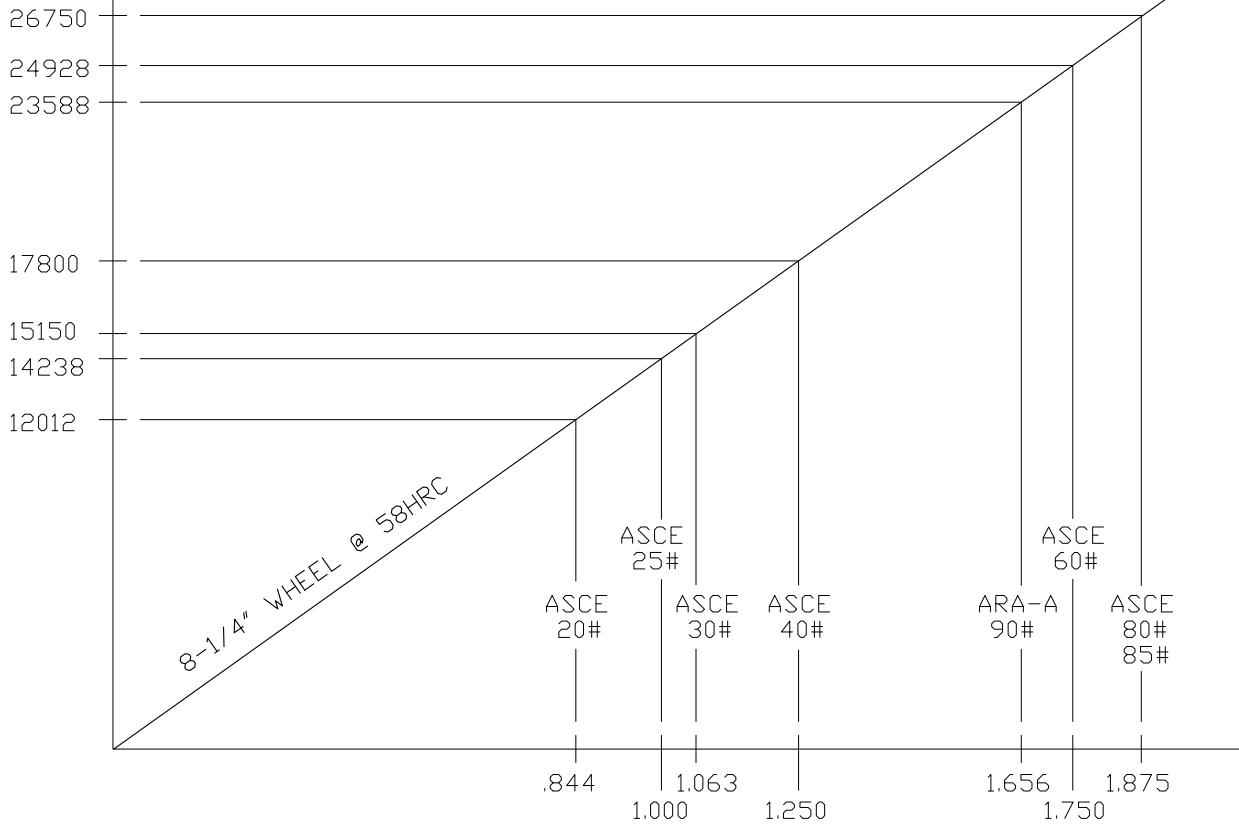
NOTE: X

NOTE: X

SCALE 1:X

DIRECTORY \

WHEEL LOAD [#]

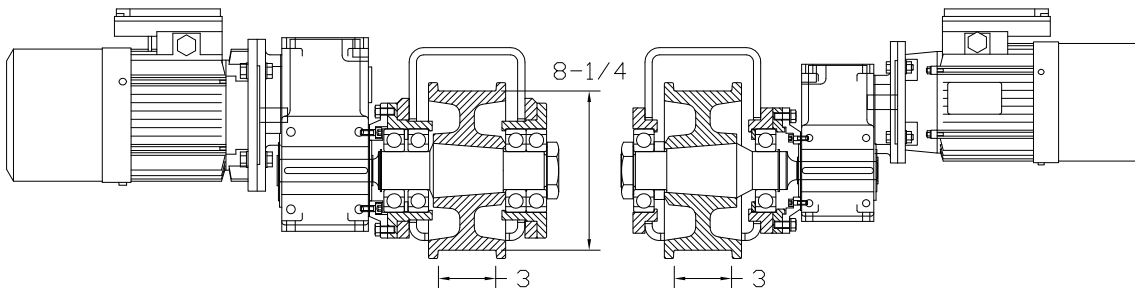


THE MAX WHEEL LOAD IS A COMBINED FUNCTION OF THE FOLLOWING FACTORS

- RUNWAY ACCURACY
- CRANE ACCURACY
- DUTY CYCLE
- OPERATING CONDITIONS
- COMPONENT STRESS LIMITS

IT IS RECOMMENDED TO ADHERE TO THE CHART FOR WHEEL LOAD LIMITATIONS BUT THE WHEEL LOAD REQUIREMENTS CAN BE DERATED BASED ON SPECIFIC DUTY CYCLE APPLICATION

EFFECTIVE RAIL WIDTH ["]



- 6310 2RS1 SKF BALL BEARINGS (STANDARD)
- NJ310 EC ROLLER BEARING (OPTIONAL) FOR SHOCK LOADING APPLICATIONS



DETROIT HOIST & CRANE CO.

MAXIMUM WHEEL LOAD CHART
 ACCORDING TO CMAA TABLE 4.13.3-4
 8-1/4" WHEEL (GRAPHITE DUCTILE IRON)

CHART#

HRC-8

DRAWN BY / DATE

A.B. / 04-29-09

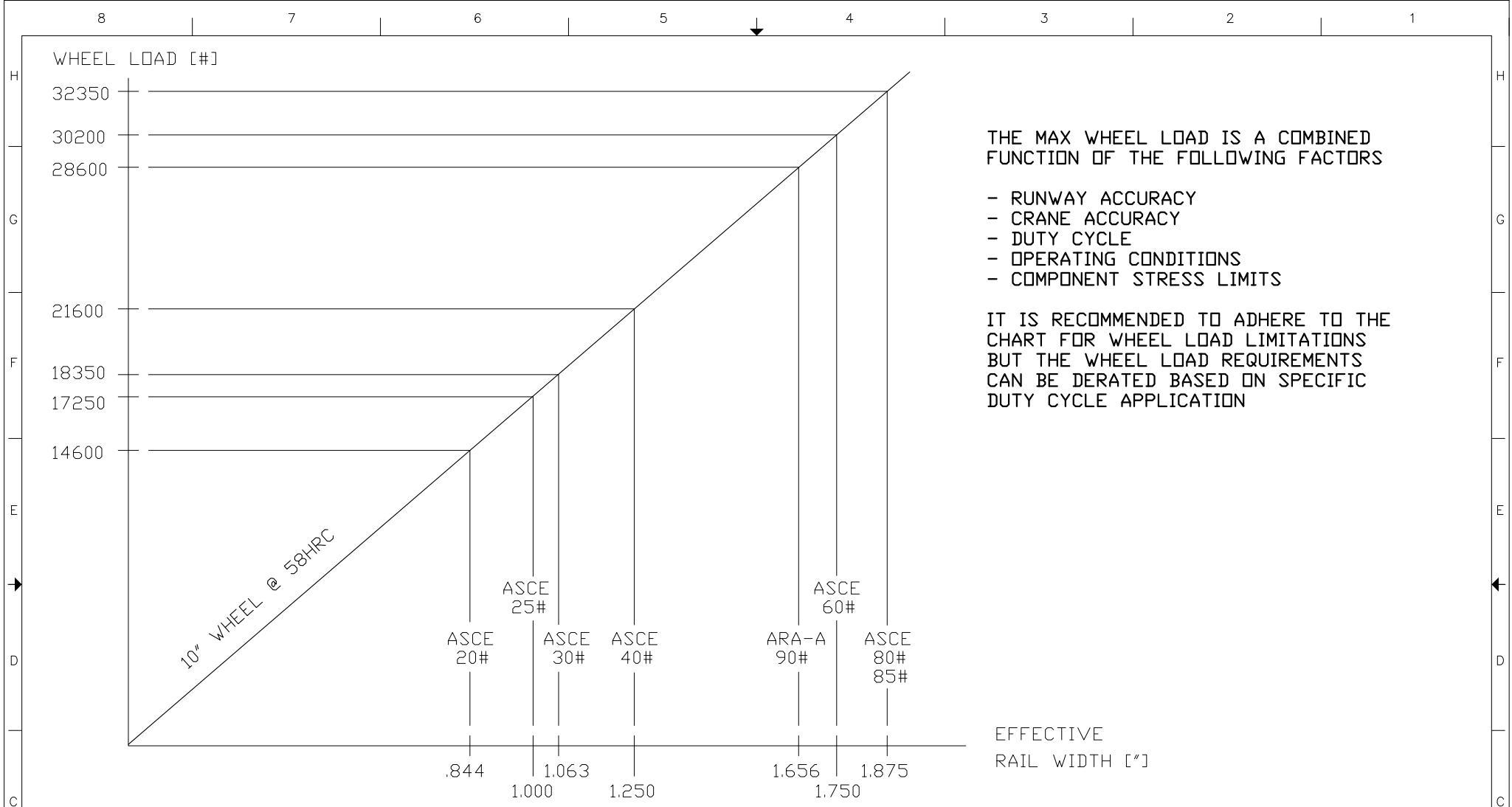
NOTE: X

NOTE: X

NOTE: X

SCALE 1:X

DIRECTORY \



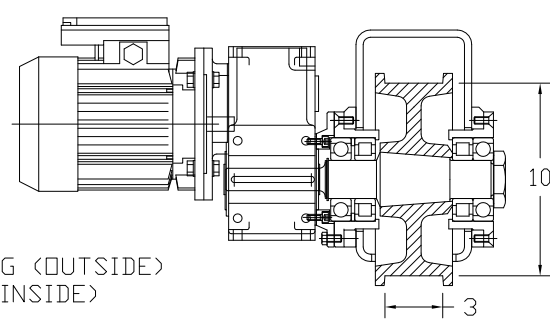
THE MAX WHEEL LOAD IS A COMBINED FUNCTION OF THE FOLLOWING FACTORS

- RUNWAY ACCURACY
- CRANE ACCURACY
- DUTY CYCLE
- OPERATING CONDITIONS
- COMPONENT STRESS LIMITS


IT IS RECOMMENDED TO ADHERE TO THE CHART FOR WHEEL LOAD LIMITATIONS BUT THE WHEEL LOAD REQUIREMENTS CAN BE DERATED BASED ON SPECIFIC DUTY CYCLE APPLICATION

10" WHEEL @ 58HRC

EFFECTIVE RAIL WIDTH ["]

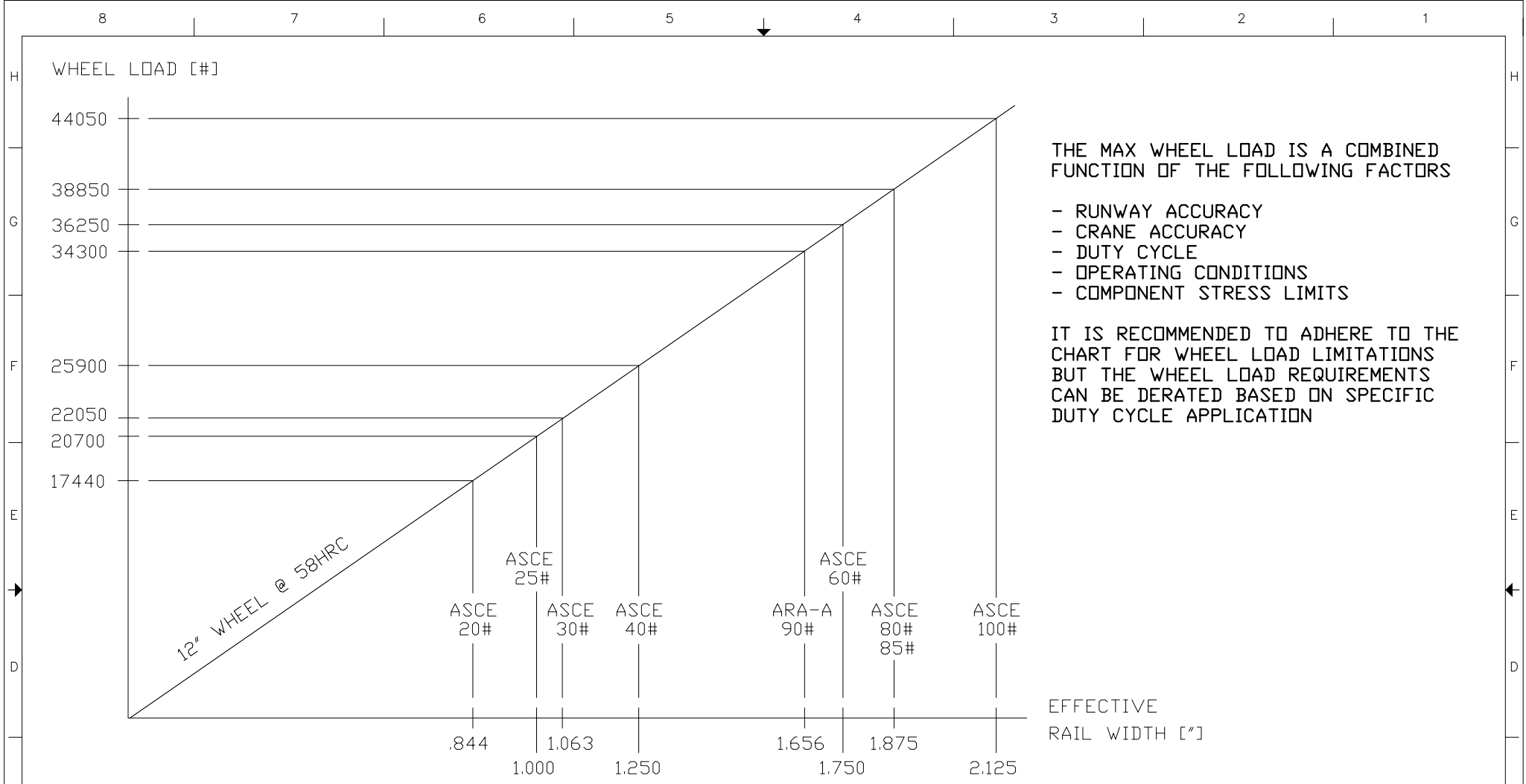


- 6310 2RS1 SKF BALL BEARING (OUTSIDE)
- NJ310 EC ROLLER BEARING (INSIDE)

 DETROIT HOIST & CRANE CO.

MAXIMUM WHEEL LOAD CHART
 ACCORDING TO CMAA TABLE 4.13.3-4
 10" WHEEL (GRAPHITE DUCTILE IRON)

CHART# HRC-10	DRAWN BY / DATE A.B. / 04-29-09
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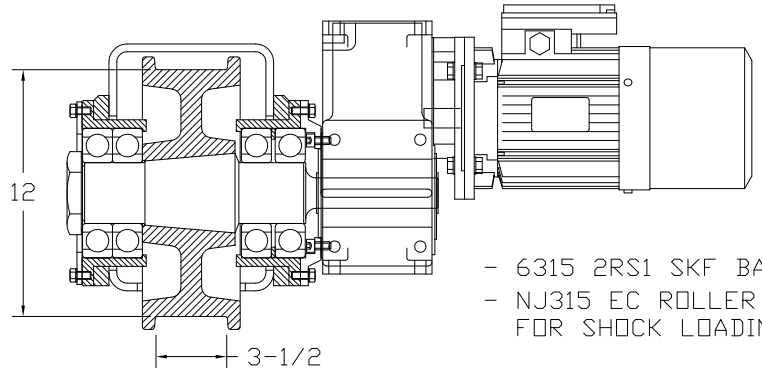
THE MAX WHEEL LOAD IS A COMBINED FUNCTION OF THE FOLLOWING FACTORS

- RUNWAY ACCURACY
- CRANE ACCURACY
- DUTY CYCLE
- OPERATING CONDITIONS
- COMPONENT STRESS LIMITS


IT IS RECOMMENDED TO ADHERE TO THE CHART FOR WHEEL LOAD LIMITATIONS BUT THE WHEEL LOAD REQUIREMENTS CAN BE DERATED BASED ON SPECIFIC DUTY CYCLE APPLICATION

12" WHEEL @ 58HRC

EFFECTIVE RAIL WIDTH ["]



- 6315 2RS1 SKF BALL BEARINGS (STANDARD)
- NJ315 EC ROLLER BEARINGS (OPTIONAL) FOR SHOCK LOADING APPLICATION

 DETROIT HOIST	
MAXIMUM WHEEL LOAD CHART ACCORDING TO CMAA TABLE 4.13.3-4 12" WHEEL (GRAPHITE DUCTILE IRON)	
CHART# HRC-12	DRAWN BY / DATE A.B. / 04-29-09