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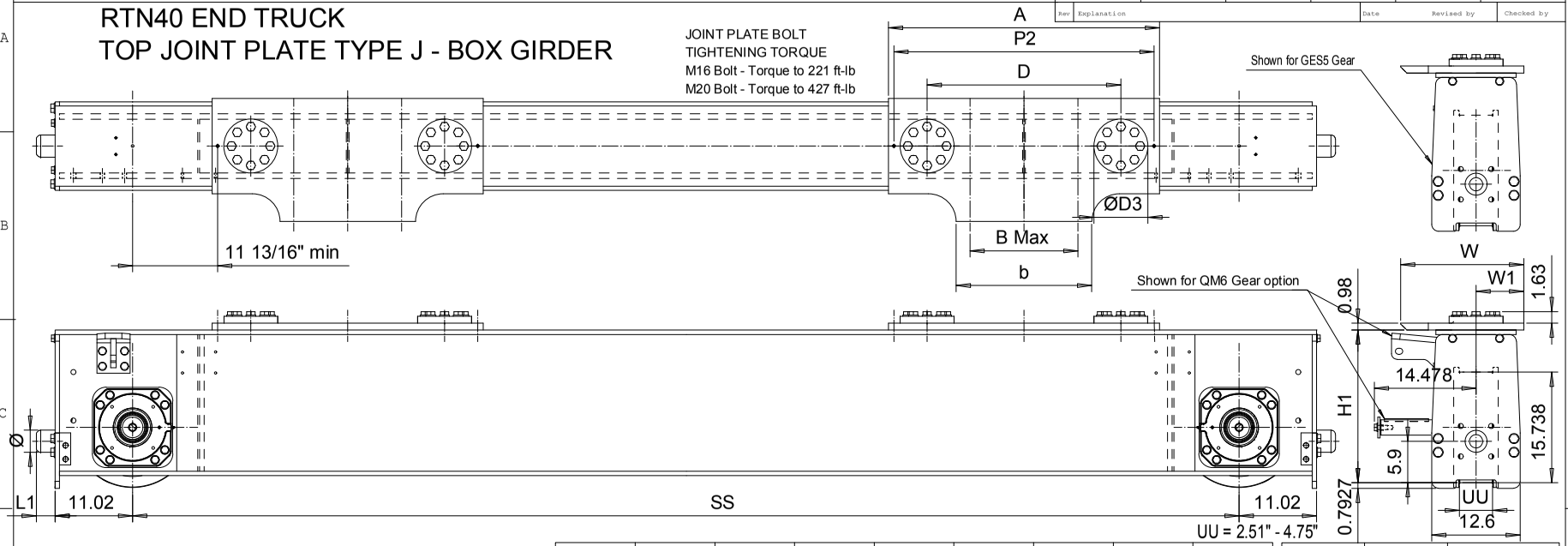
RTN40 END TRUCK
TOP JOINT PLATE TYPE J - BOX GIRDER

JOINT PLATE BOLT
TIGHTENING TORQUE
M16 Bolt - Torque to 221 ft-lb
M20 Bolt - Torque to 427 ft-lb



RTN40-4075-J11505B0000-N

Joint plate	A	B max	b	D	P2	W	W1	Wgt/pc
								(lb)
J1	38.58"	15.35"	19.29"	27.56"	37"	17.52"	6.81"	190
J2	48.43"	25.39"	29.33"	37.4"	46.85"	17.52"	6.81"	236
J3	62.2"	37.21"	41.14"	51.18"	60.63"	17.52"	6.81"	300
J4	42.52"	15.35"	19.29"	28.74"	40.94"	18.70"	7.40"	223
J5	51.18"	25.39"	29.33"	37.4"	49.61"	18.70"	7.40"	227
J6	66.14"	37.21"	41.14"	52.36"	64.57"	18.70"	7.40"	342
J7	43.31"	20.08"	24.02"	32.28"	41.73"	17.52"	6.81"	212
J8	47.24"	20.08"	24.02"	33.46"	45.67"	18.70"	7.40"	247
J9	53.15"	29.92"	33.86"	42.13"	51.57"	18.70"	6.81"	267
J0	57.09"	29.92"	33.86"	42.13"	55.51"	18.70"	7.40"	298

Minimum wheelbase with J3, J9, J0 joint plate is 13'-1 1/2".

Buffer type	L1	Ø
B	2 11/16"	3 3/16"
C	3 5/16"	3 15/16"
D	4 1/8"	4 15/16"
E	5 15/16"	3 15/16"
F	7 1/2"	4 15/16"
H	6 5/16"	6 5/16"
I	7 7/8"	7 7/8"
M	4 15/16"	4 15/16"
P	9 7/16"	6 5/16"
S	11 13/16"	7 7/8"
T	13 3/4"	9 7/8"
Y	18 3/4"	9 7/8"
B, C, D rubber		
K, G, E, F, H, I, M, P, S polyurethane		

The wheel loads listed are only a guideline. The max. wheel load listed is based on the structural integrity of the frame and load placement,and it does not take into account permissible wheel loading or bearing life. SG load placement is at the center, and DG load placement is for a trolley gage of 1400 mm [55 1/8"]. The permissible dynamic wheel load listed is based on assumptions that the bridge speed is 32 m/min [100 fpm], end truck duty is Fem 2m, and the runway rail as listed. The actual wheel load should not exceed the permissible wheel load. If the permissible dynamic wheel load is greater than the maximum dyn wheel load, then the actual wheel load cannot exceed maximum dyn wheel load. Dyn wheel load = 1.15 x static wheel load.

Wheelbase	SS	Max dyn whl load, (kip)		Perm dyn whl load, (kip)		Approx. Wt*./Trk, lb		H1
code		SG	DG	ASCE 85	BETH 135	SG	DG	
25	8'-2 7/16"	78.8	---	50.7	66.6	2273	---	21 9/16"
32	10'-4"	78.8	78.8	50.7	66.6	2154	2344	21 9/16"
40	13'-1 1/2"	78.8	78.8	50.7	66.6	2668	2857	21 3/4"
45	14'-9 1/8"	78.8	78.8	50.7	66.6	2948	3137	26 5/16"
50	16'-4 7/8"	78.8	78.8	50.7	66.6	3360	3549	26 7/16"
55	18'-1/2"	78.8	78.8	50.7	66.6	3616	3805	26 7/16"

*Approximate weight of end truck assumes GES5 drive wheel and J1 joint plate.
QM6 drive parts adds extra weight.

	Weight, lb
QM6	73

ETTPIA Design	ETTPIA Chd	Appd	Ref Drawing
2008-08-11 Date	END TRUCK		1 : 7
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		RTN40 END TRUCK J JOINT	Issue 6/2013