C. E. (T. & R.S.) DEPT. B.R.B. H.Q.

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JAN. 1968 EDITION.

B.R. FREIGHTLINER TRAINS

FEATURES OF DESIGN REGARDING LIFTING
OF I.S.O. / FREIGHTLINER CONTAINERS AND
LOCATING & SECURING ON ROAD & RAIL VEHICLES.

B.R. CONTAINER HANDLING

CEB

Type:- Covered 10 FOOT

Item

- 1. External Dimensions
- 2. Internal Dimensions
- 3. Cubic Content
- 4. Rating
- 5. No. and Types of Doors
- 6. Lifting
 - (a) Freightliner Centres
 - (b) I.S.O. Lifting Using corner castings
- 7. Stacking
- 8. External Roof
- 9. Internal Roof
- 10. External Sides
- 11. Internal Sides
- 12. External Fixed end
- 13. Internal Fixed end
- 14. Floor
- 15. Ventilation
- 16. Freightliner Location
- 17. Freightliner Securing
- 18. I.S.O. Securing and Location

91 92" long x 810" wide x 810" high 0.A.

9'2½" long x 7'7.3/8" wide x 7'2½" high

505 cubic ft. Minimum

10 tons (including tare)

1 pair end doors 7'6" wide

714"

9'12" minimum corner fitting aperture relationship (Lifted at least from top at the corners by devices which apply the lifting forces vertically).

4 high minimum (Ends and Sides Flush)

Single Panel. (Peripheral rivets only)

Plywood 3/16" thick.

Horizontally ribbed.

Plywood 1" thick with flush securing bars and light alloy 1' high protection panel.

Plain Panel

Plywood 4" thick with flush securing bars and light alloy 1 ft. high protection panel.

Timber

Adjustable type 1 per side

2 sockets

2 points

4 points using corner castings.

- (a) The container will conform to BS3951: 1967 & BS4228: 1967 for the specification and testing of series 1 Freight containers.
- (b) General weatherproofing especially door seals.
- (c) Door fastening to be secure and capable of being locked and sealed. All external nuts to be welded and hinge pins not removable.
- (d) Doors able to clip back to sides when open.
- (e) Interior to be smooth and free from projecting rivet heads, nuts and bolt heads, etc.
- (f) Containers for international service to be in accordance with T.I.R. regulations and U.I.C. Leaflet 592.

Type:- Covered 20 FOOT

Item

- 1. External Dimensions
- 2. Internal Dimensions
- 3. Cubic Content
- 4. Rating
- 5. No. and Type of Doors
- 6. Lifting
 - (a) Freightliner Centres
 - (b) I.S.O.Lifting using corner castings
- 7. Stacking
- 8. External Roof
- 9. Internal Roof
- 10. External sides
- 11. Internal Sides
- 12. External Fixed End
- 13. Liternal Fixed End
- 14. Floor
- 15. Ventilation
- 16. Freightlimer
- 17. Freightliner Securing
- 18. I.S.O. Securing and Location

19' $10\frac{1}{2}$ " long x 8'0" wide x 8'0" high 0.A.

19'31" long x 7'73/8" wide x 7'21" high

1058 Cubic feet minimum

20 tons (including tare)

1 pair end doors 7'6" wide.

1210"

19'22" minimum corner fitting aperture relationship (Lifted at least from top at the corners by devices which apply the lifting forces vertically)

4 high minimum (Ends and Sides flush)

Single Panel. Peripheral rivets only.

Plywood 3/16" thick.

Horizontally ribbed

Plywood 1" thick with flush securing bars and light alloy 1 ft. high protection panel.

Plain Panel

Plywood 1" thick with flush securing bars and light alloy 1 ft. high protection panel.

Timber

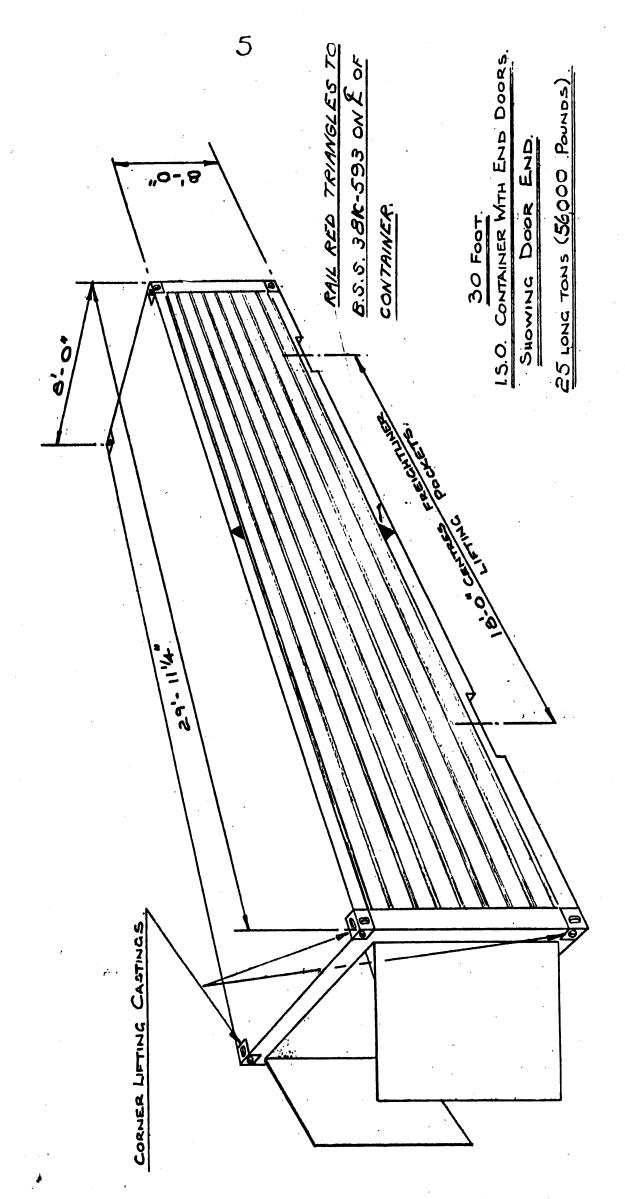
Adjustable type, 1 per side.

Laceke ts.

L points.

4 points using corner casting.

- (a) The container will conform to BS3951: 1967 & BS4228: 1967 for the specification and testing of series 1 Freight Containers.
- (b) General weatherproofing especially door seals.
- (c) Door fastening to be secure and capable of being locked and scaled. All external nuts to be welded and hinge pins not removable.
- (d) Doors able to clip back to sides when open.
- (e) Interior to be smooth and free from projecting rivet heads, nuts and bolt heads, etc.
- (f) Containers for international service to be in accordance with T.I.R. regulations and U.I.C. Leaflet 592



Type:- Covered 30 FOOT

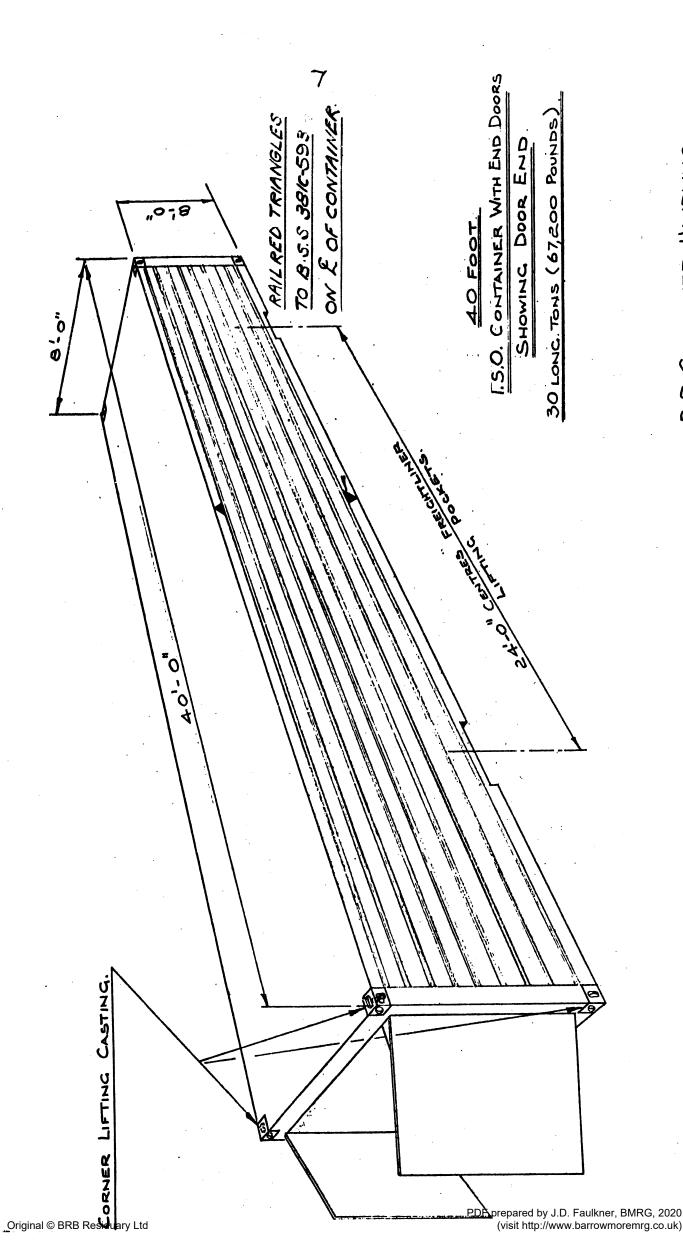
Item

- 1. External Dimensions
- 2. Internal Dimensions
- 3. Cubic Content
- 4. Rating
- 5. No. and Type of Doors
- 6. Lifting:
 - (a) Freightliner centres
 - (b) I.S.O. Lifting using corner castings
- 7. Stacking
- 8. External Roof
- 9. Internal Roof
- 10. External Sides
- 11. Internal Sides
- 12. External Fixed end
- 13. Internal Fixed end
- 14. Floor
- 15. Ventilation
- 16. Proightliner Location
- 17. Preightliner Securing
- 18. I.S.O. Securing and location

- 29' 111" long x 8'0" wide x 8'0" high 0.A.
- 29' 4" long x $7'7^3/8$ " wide x $7'2\frac{1}{2}$ " high.
- 1610 cubic feet
- 25 tons (including tare)
 - 1 pair end doors 7'6" wide
- 181 0"
- 29' 31" minimum corner fitting aperture relationship (Lifted at least from top at the corners by devices which apply the lifting forces vertically.
- 4 high minimum (Ends and sides flush)
- Single Panel, peripheral rivets only.
- Plywood 3/16" thick.
- Horizontally ribbed.
- Plywood 1 thick with flush securing bars and light alloy 1 ft. high protection panel.
- Plain Panel
- Plywood $\frac{1}{4}$ " thick with flush securing bars and light alloy 1 ft. high protection panel.
- Timber
- Adjustable type 1 per side
- 4 sockets
- 6 points
 - 4 points using corner castings

- (a) The containers will conform to BS3951: 1967 & BS4228: 1967 for the specification and testing of series 1 Freight Containers.
- (b) General weatherproofing, especially door seals
- (c) Door fastening to be secure and capable of being locked and sealed.

 All external nuts to be welded and hinge pins not removable.
- (d) Doors able to clip back to sides when open.
- (e) Interior to be smooth and free from projecting rivet heads, nuts and bolt heads, etc.
- (f) Containers for international service to be in accordance with T.I.R. regulations and U.I.C. Leaflet 592



B.R. CONTAINER HANDLING.

Type:- Covered 40 FOOT

Item

- 1. External Dimensions
- 2. Internal Dimensions
- 3. Cubic Content
- 4. Rating
- 5. No. and type of doors
- 6. Lifting
 - (a) Freightliner centres
 - (b) I.S.O. Lifting using corner castings
- 7. Stacking
- 8. External roof
- 9. Internal roof
- 10. External sides
- 11. Internal Sides
- 12. External fixed end
- 13. Internal fixed end
- 14. Floor
- 15. Ventilation
- 16 Freightliner Lecation
- 17. Preightliner securing
- 18. I.S.O. Securing and location

40'0" long x 8'0" wide x 8'0" high 0.A.

 $39'4\frac{1}{2}''$ long x $7'7^3/8''$ wide x $7'2\frac{1}{2}''$ high

2,160 cu. ft.

30 tons (including tare)

1 pair end doors, 7'6" wide.

2410"

39'4" minimum corner fitting aperture relationship (Lifted at least from top at the corners by devices which apply the lifting forces vertically).

4 high minimum (ends and sides flush)

Single panel, peripheral rivets only.

Plywood 3/16" thick.

Horizontally ribbed.

Plywood 1 thick with flush securing bars with light alloy 1 ft. high protection panel.

Plain panel.

Plywood ¹/₄" thick with flush securing bars with light alloy 1 ft. high protection panel.

Timber

'Adjustable type 1 per side.

4 sockets.

6 points.

4 points using corner castings.

- (a) The container will conform to B63951: 1967 & BS4228: 1967 for the specification and testing of series 1 Freight Containers.
- (b) General weatherproofing, especially door seals
- (c) Door fastening to be secure and capable of being locked and sealed. All external nuts to be welded and hinge pins not removable.
- (4) Doors able to clip back to sides when open.
- (c) Interior to be smooth and free from projecting rivet heads, nuts and bolt heads, etc.
- (f) Containers for international service to be in accordance with T.I.R. regulations and U.I.C Leaflet 592

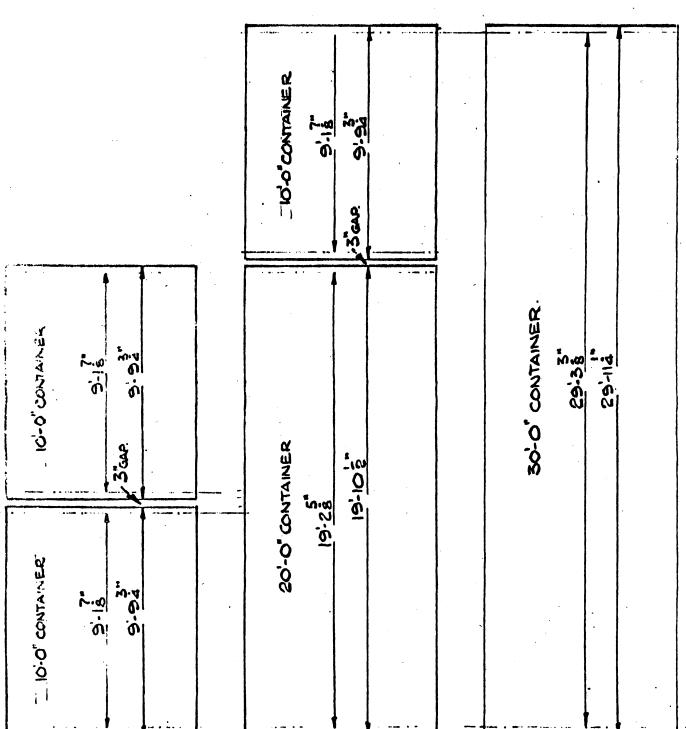
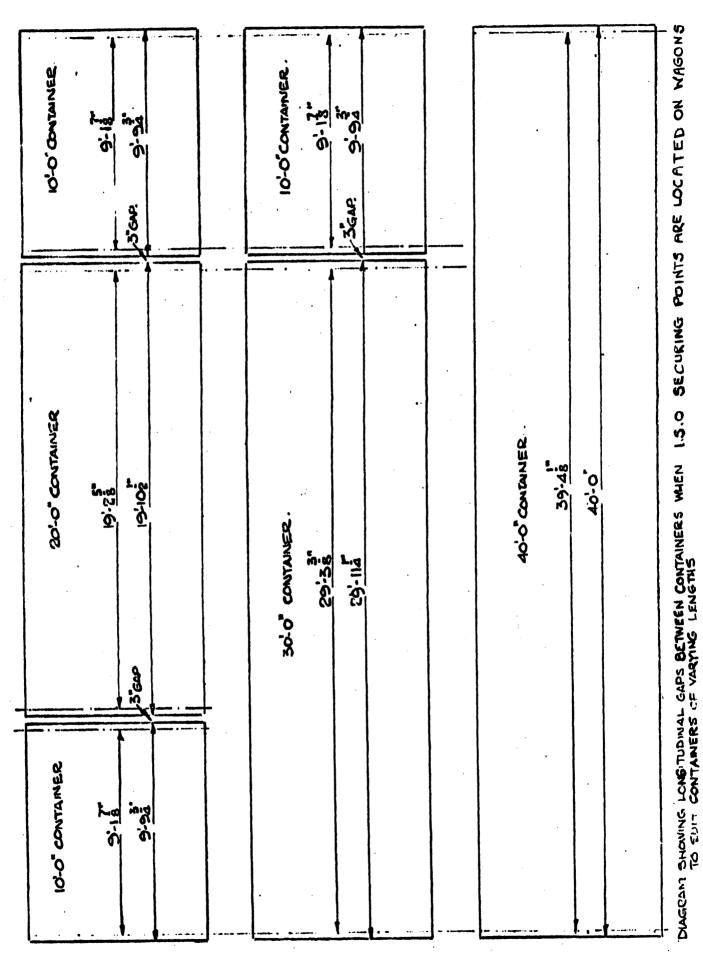
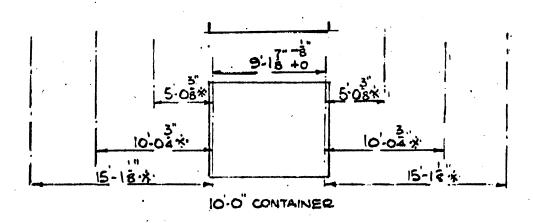
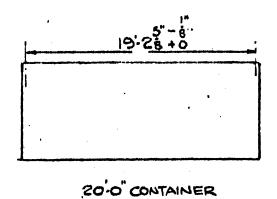
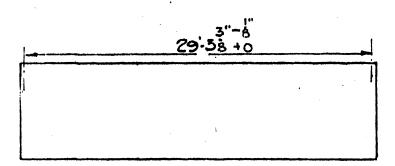


DIAGRAM SHOWING LONGITUDINAL GAPS BETWEEN CONTAINERS WHEN 150 SECURING POINTS ARE LOCATED ON WAGONS TO SUIT CONTAINERS OF YARYING LENGTHS.

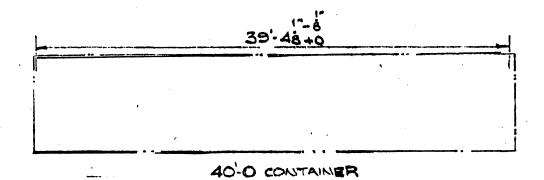






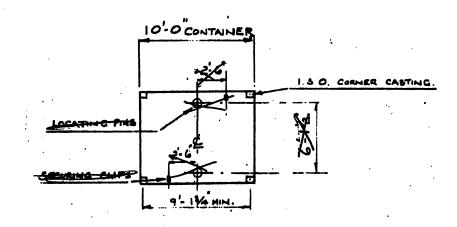


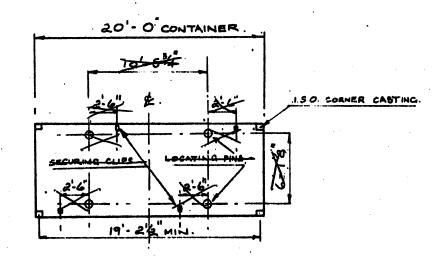
30'-0" CONTAINER.

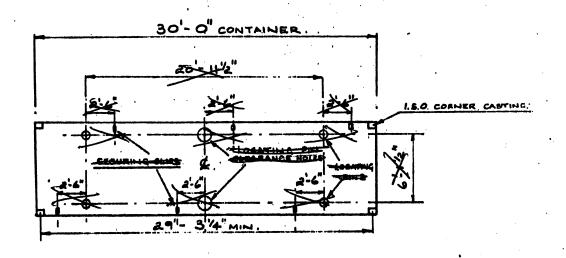


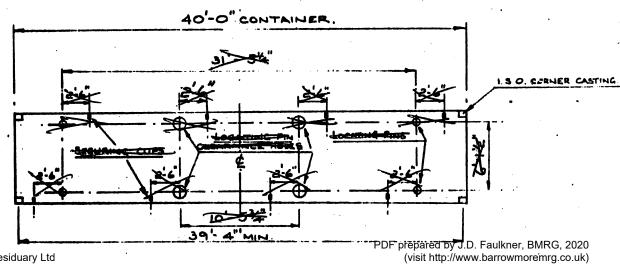
DIMENSIONS MARKED THUS 'X' INDICATE LENGTH ADJUSTMENT POINTS OF CONTAINER LIFTING POINTS.

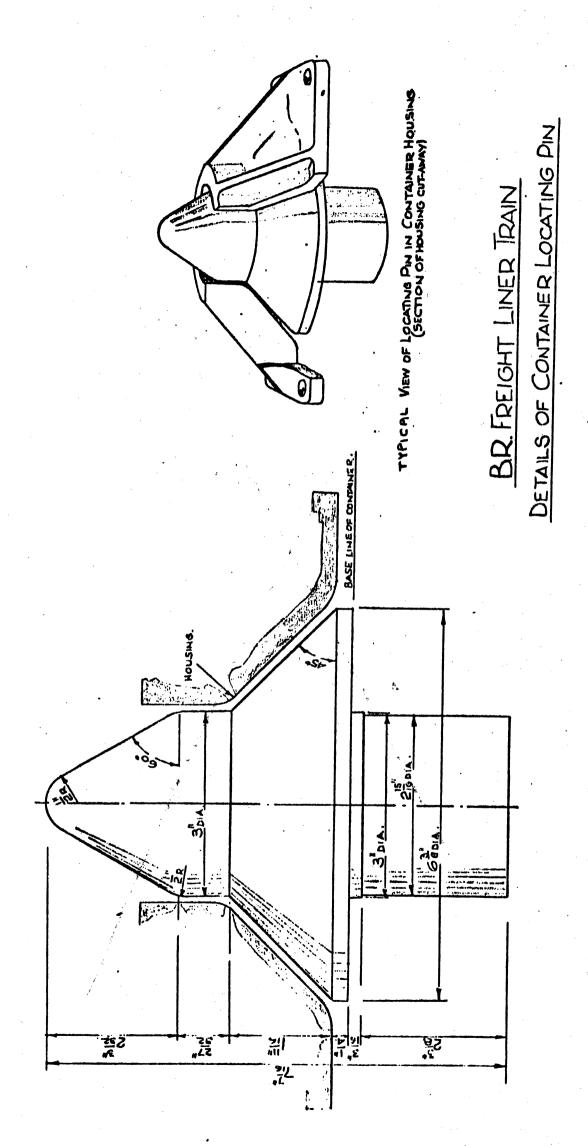
FLOOR PLANS OF I.S.O. CONTAINERS WITH FREIGHTLINER FITTINGS.

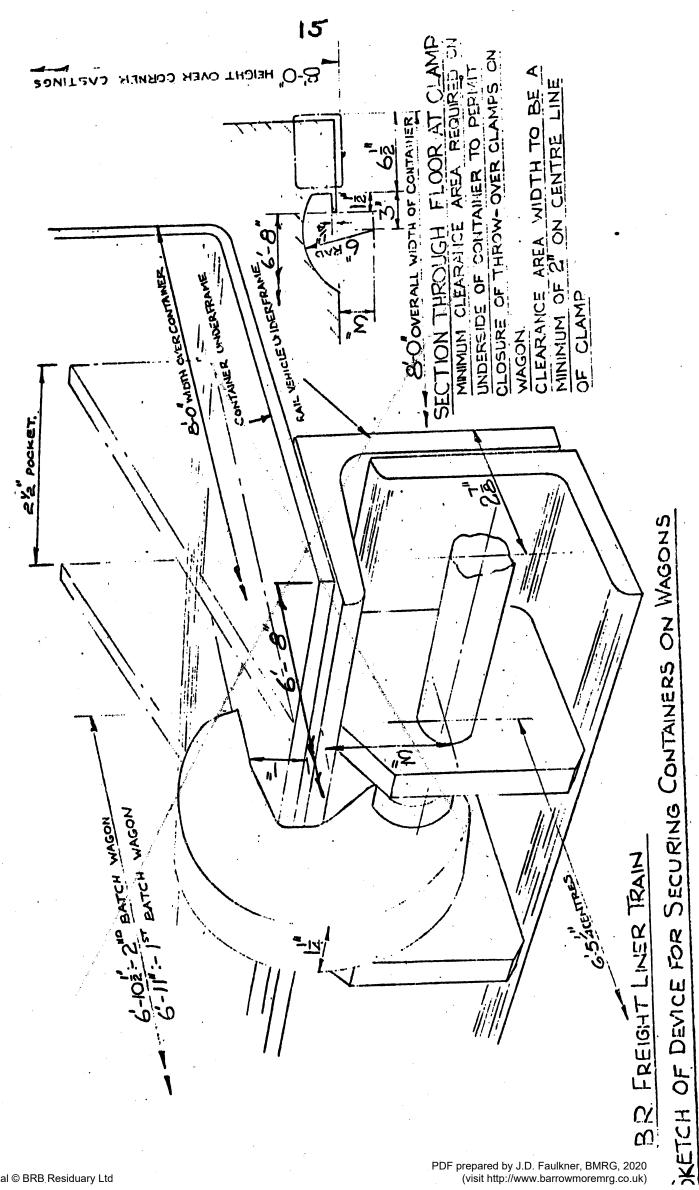


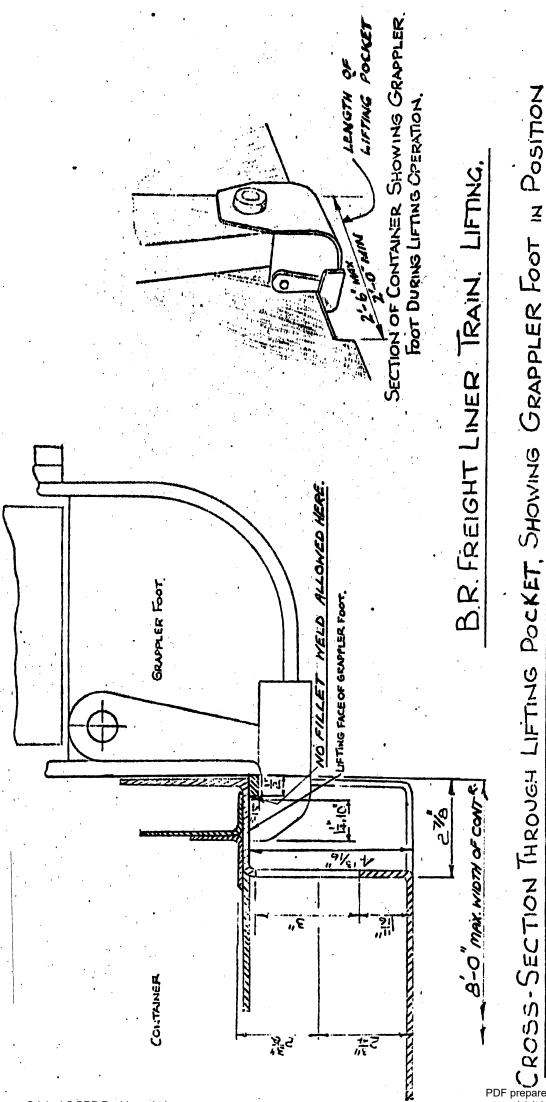






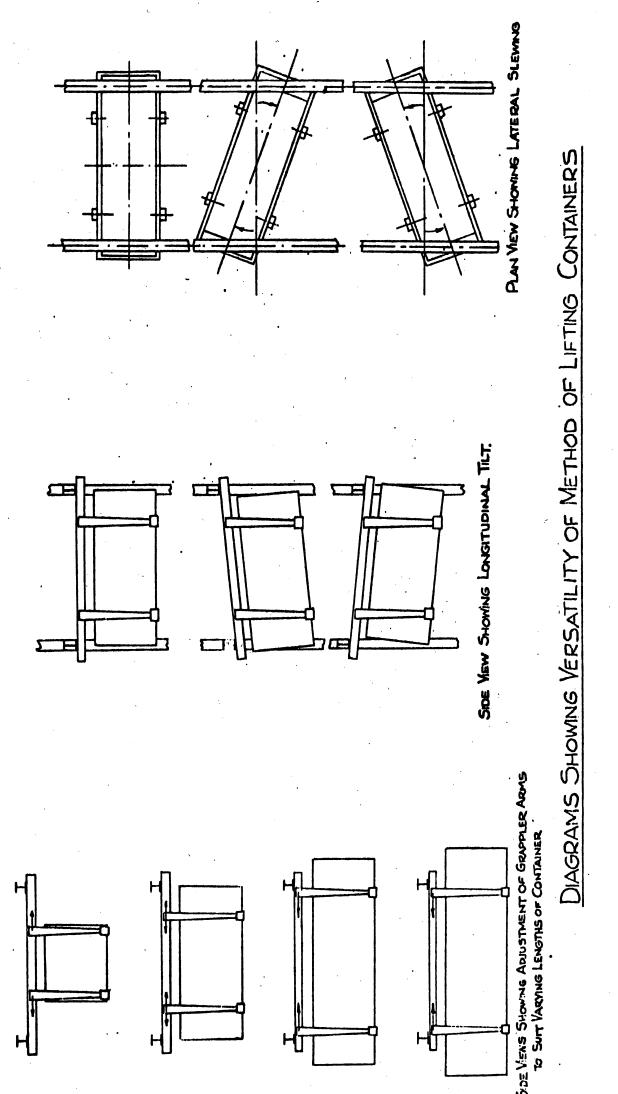


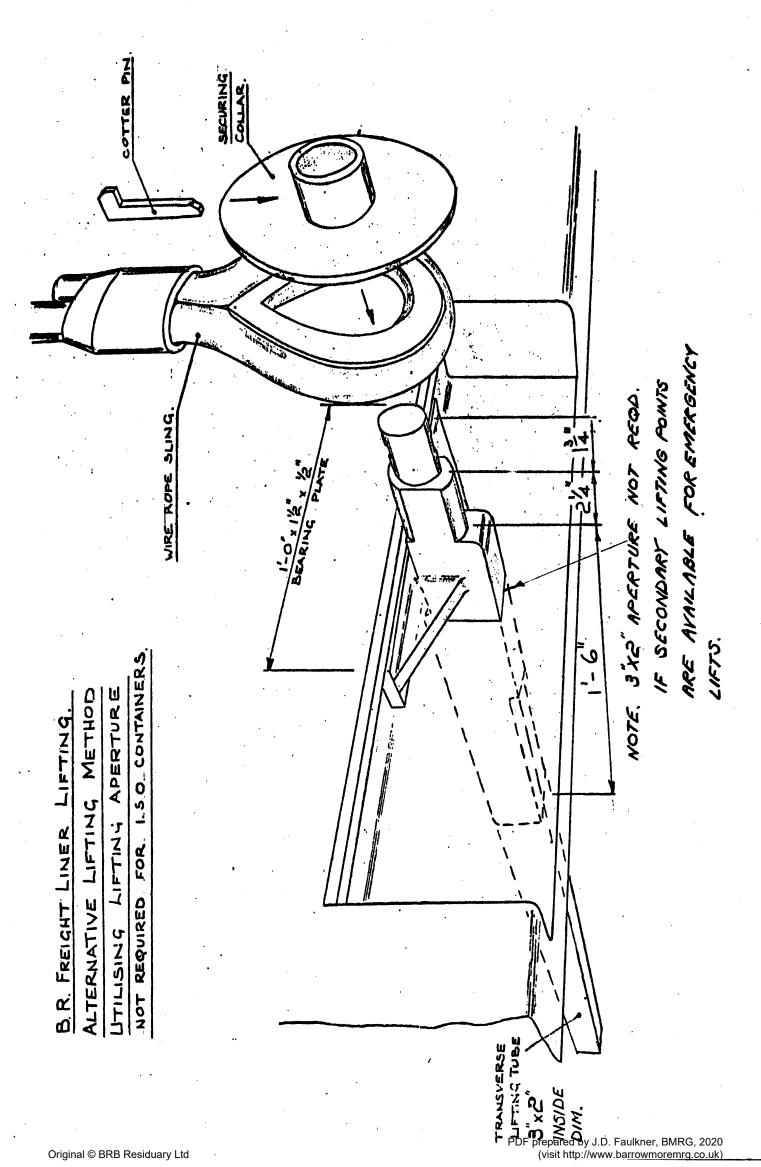




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prepared by J.D. Faulkner, BMRG, 2020 (visit http://www.barrowmoremrg.co.uk)





CORNER FITTINGS TYPICAL USAGE

BOTTOM LIFT.

SPECIAL HOOK

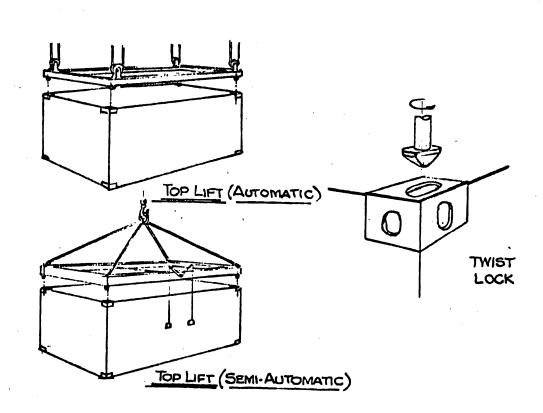
BOTTOM LIFT.

STD.

STD.

D SHACKLE

SAFETY AND STABILITY.



B.R. CONTAINER HANDLING

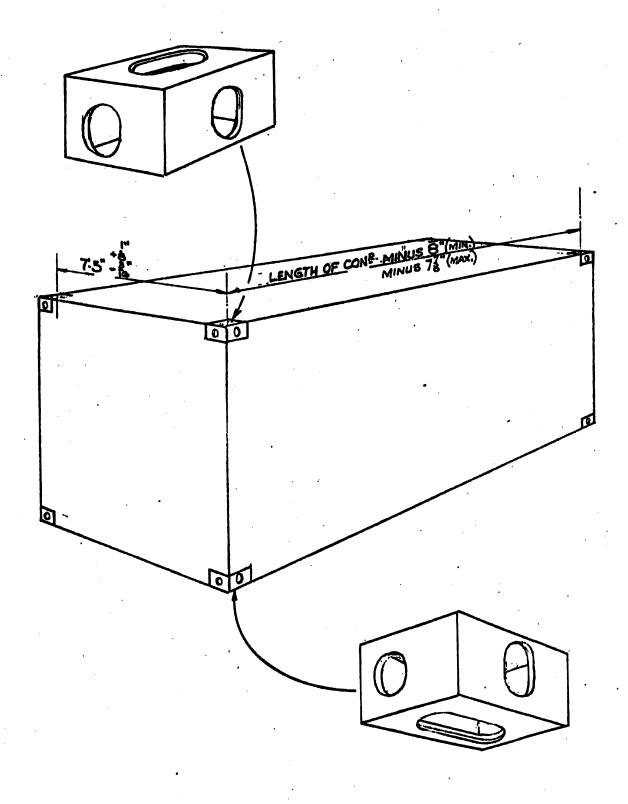
1.

2.

(3.

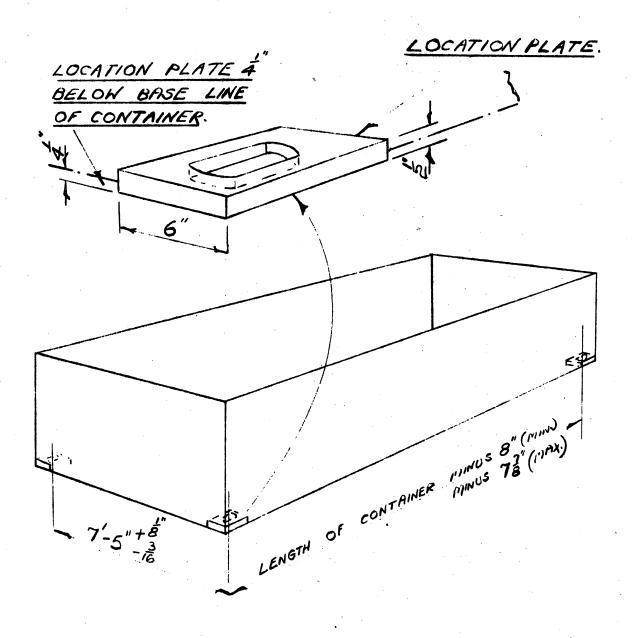
4.

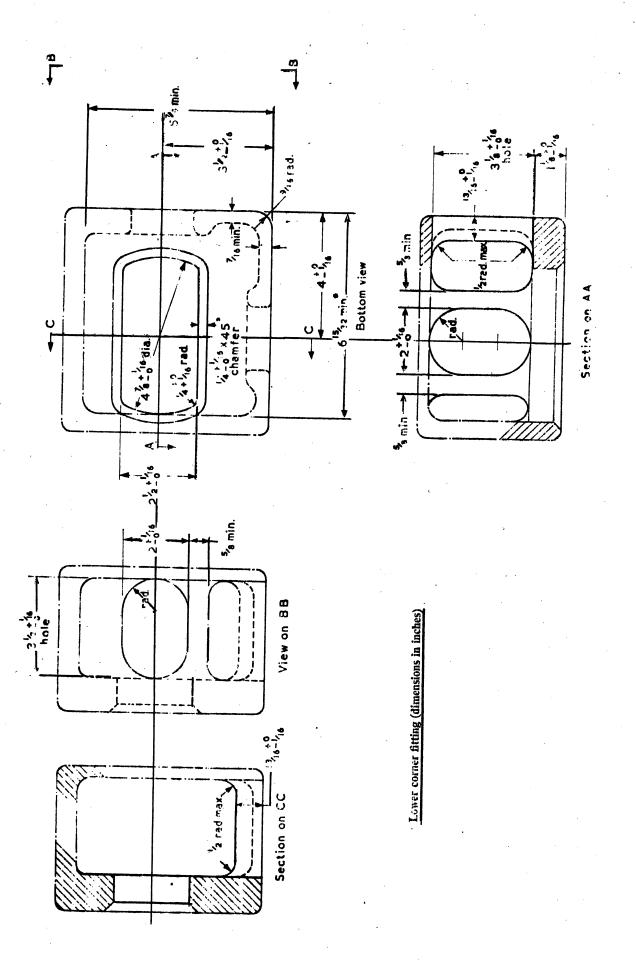
STANDARD CORNER FITTINGS

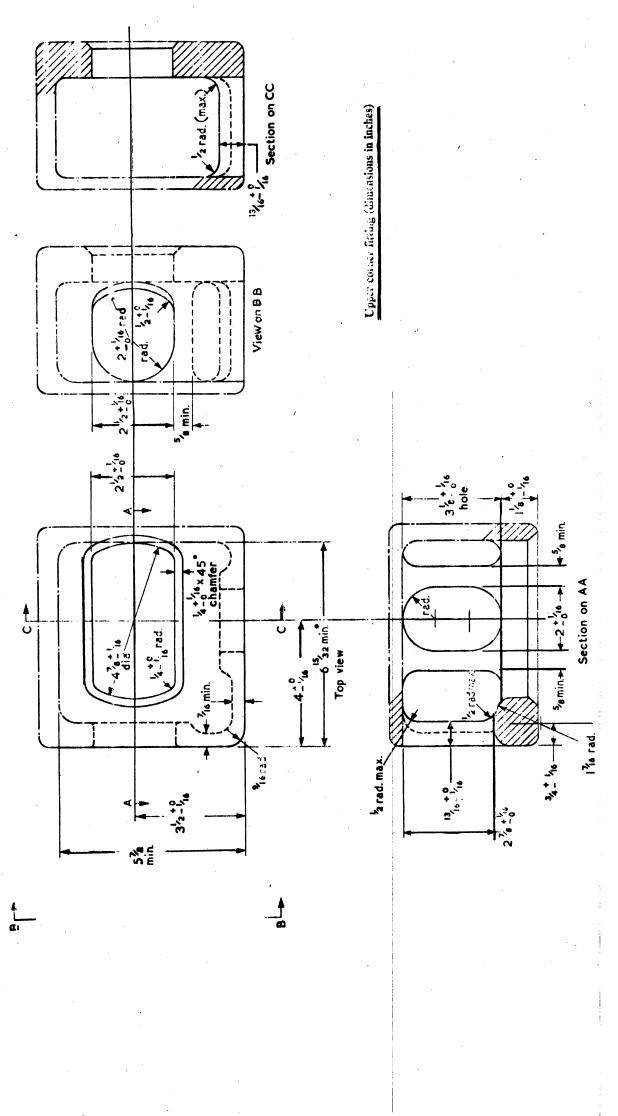


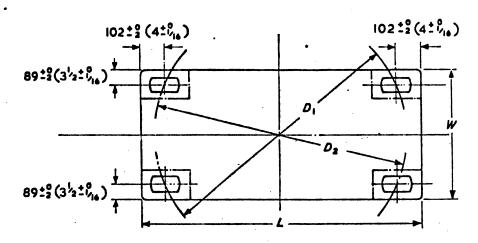
B.R. CONTAINER HANDLING

CENTRES OF LOCATION PLATE HOLES, ON OPEN CONTAINERS ETC.









Dimensions in millimetres (inches in brackets)

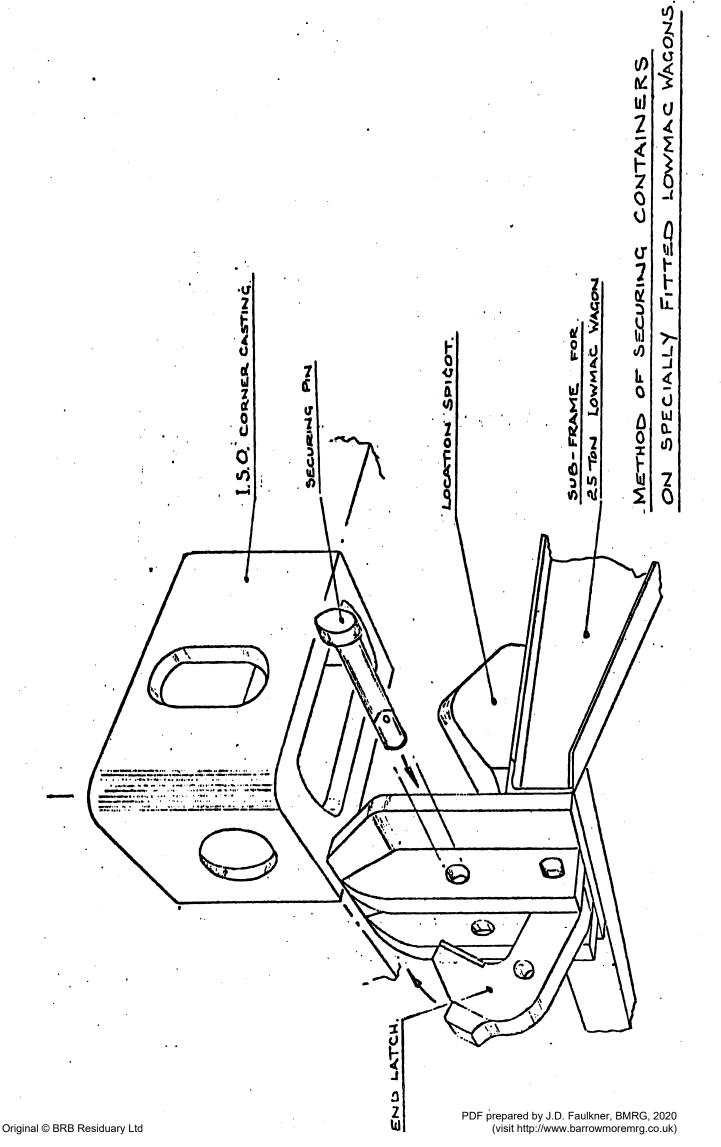
View on top or bottom planes

Relationship between corner fitting and container

- L = length of container measured over end (outer) faces of corner fittings to which container length tolerances are applied, resulting in maximum permissible length, L max. and minimum permissible length, L min.
- W= width of container measured over side (outer) faces of corner fittings to which container width tolerances are applied,
- resulting in maximum permissible width, $\,W\,$ max. and minimum permissible width, $\,W\,$ min.
- D = distance between centre of apertures of diagonally opposite corner fittings resulting in two dimensions, D_1 and D_2 .
- $K = \text{difference between } D_1 \text{ and } D_4, \text{ i.e. } K = D_1 D_2 \text{ or } K = D_2 D_3.$

VALUES OF K

| Container designation | L | | P/ | | K | L | | F | | K |
|--------------------------|--------|-----------|-------|----------|----|----------|------------|----------|-----------|----|
| | mm | mm +2 | mm | mm | mm | ft in | in | ft in | in +0 | in |
| · A | 12 190 | -8 | 2435 | +3 -2 | 19 | 40 0 | +0 −¾ | 8 0 | -¾c | 34 |
| В | 9 125 | +0 -10 | 2435 | +3 -2 | 19 | 29 111/4 | +0 -% | 8 0 | +0 −¾6 | * |
| c · | 6 055 | +3 -3 | 2 435 | +3 -2 | 13 | 19 101/2 | +0 -1⁄4 | 80 | +0 −¾s | 34 |
| D | 2 990 | +1 -4 | 2435 | +3 -2 | 10 | 9 9¾ | +0 -¾6 | 8 0 | +0 -¾s | ₩ |

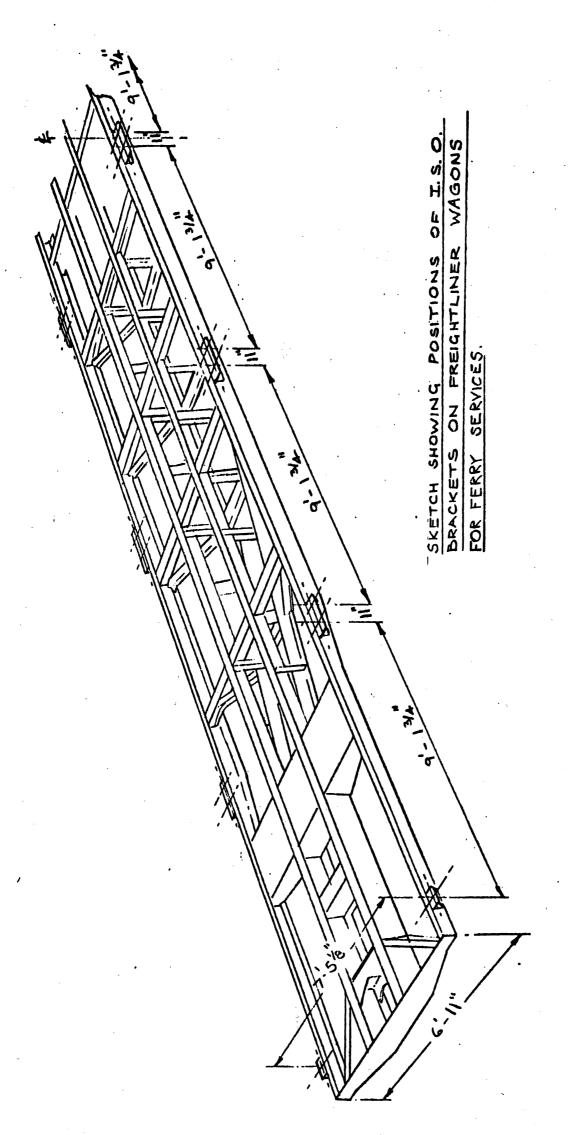


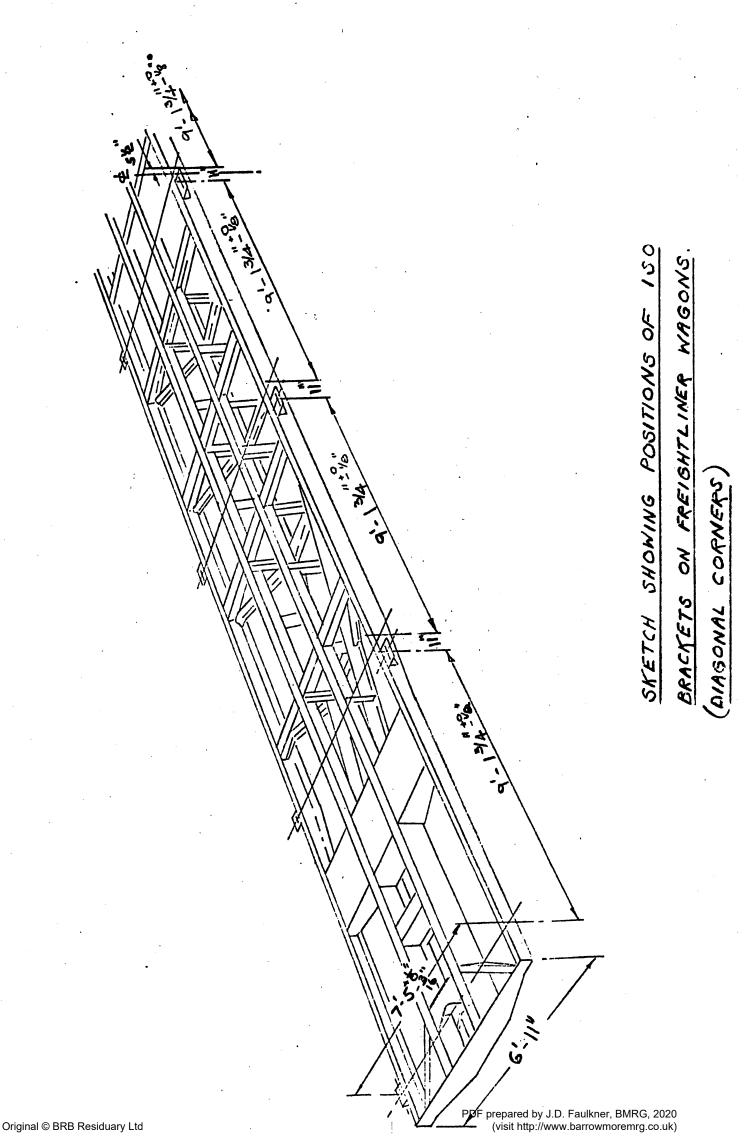
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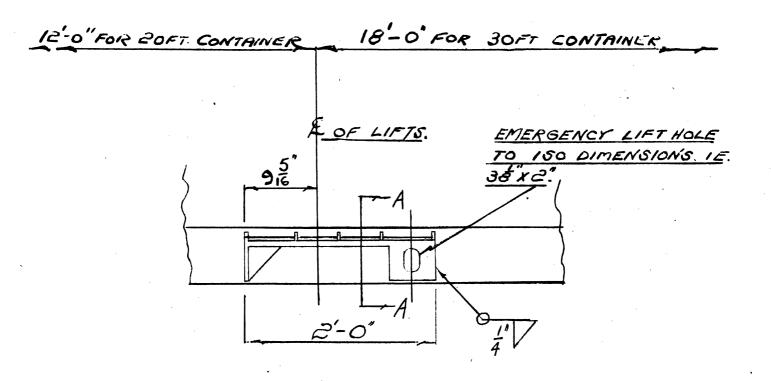
METHOD OF SECURING 1.50 CONTAINERS ON FREIGHTLINER TRAINS

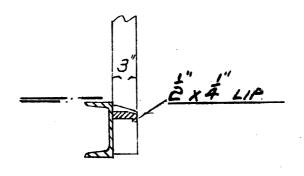
PDF prepared by J.D. Faulkner, BMRG, 2020

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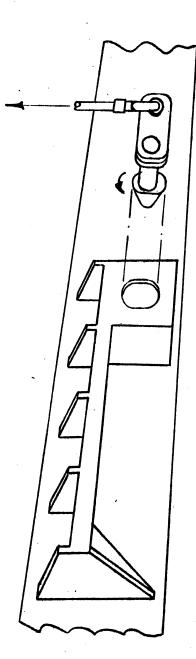




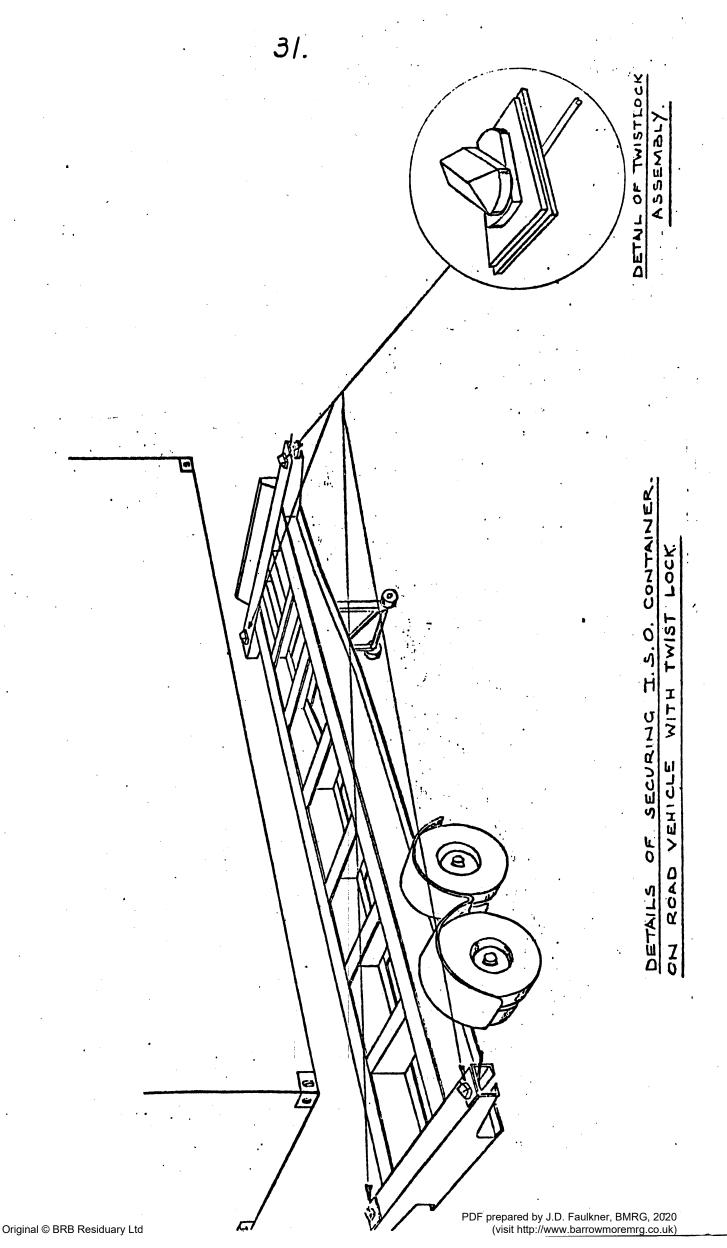


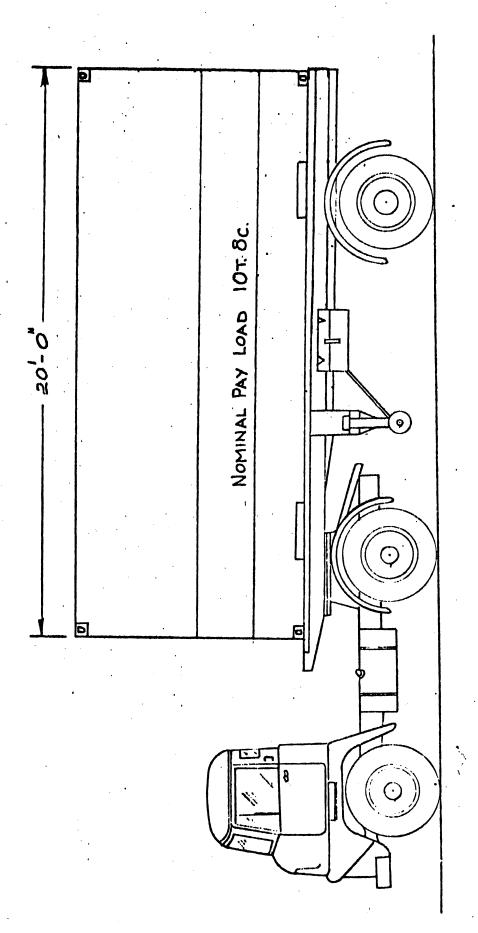
SECTION A-A.

CAST STEEL LIFTING BRACKET FOR MK. IT OPEN
FREIGHTLINER CONTAINERS.

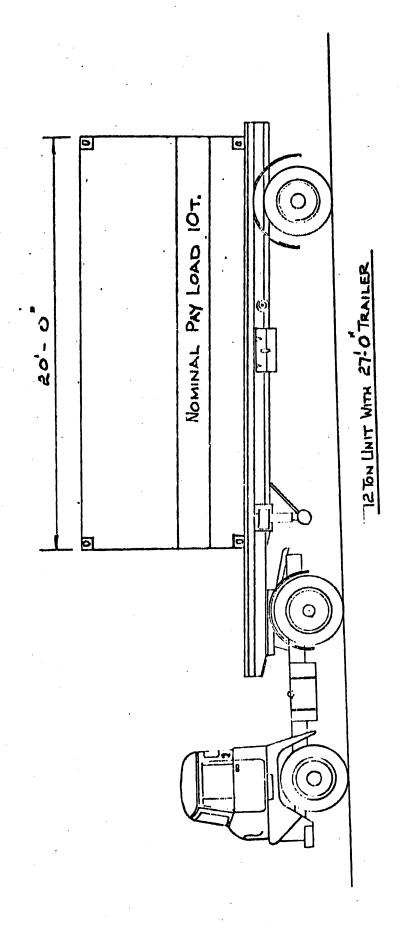


EMERGENCY LIFT FOR MK. II OPEN CONTAINER

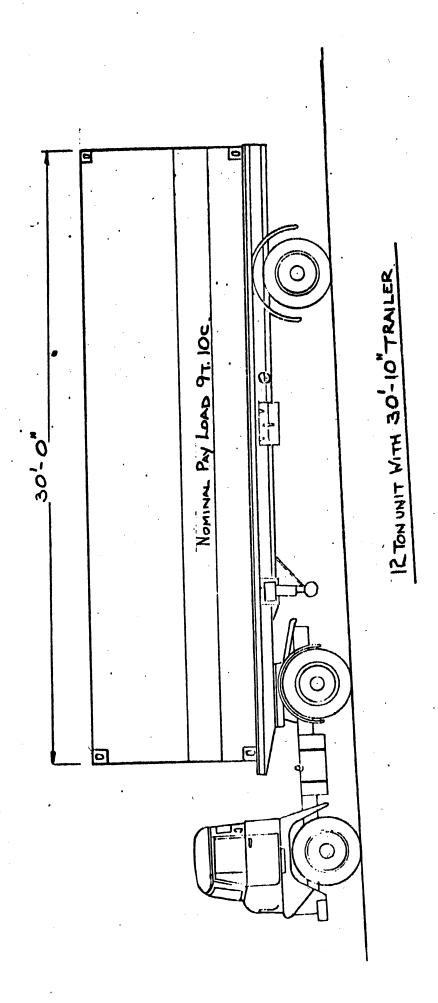




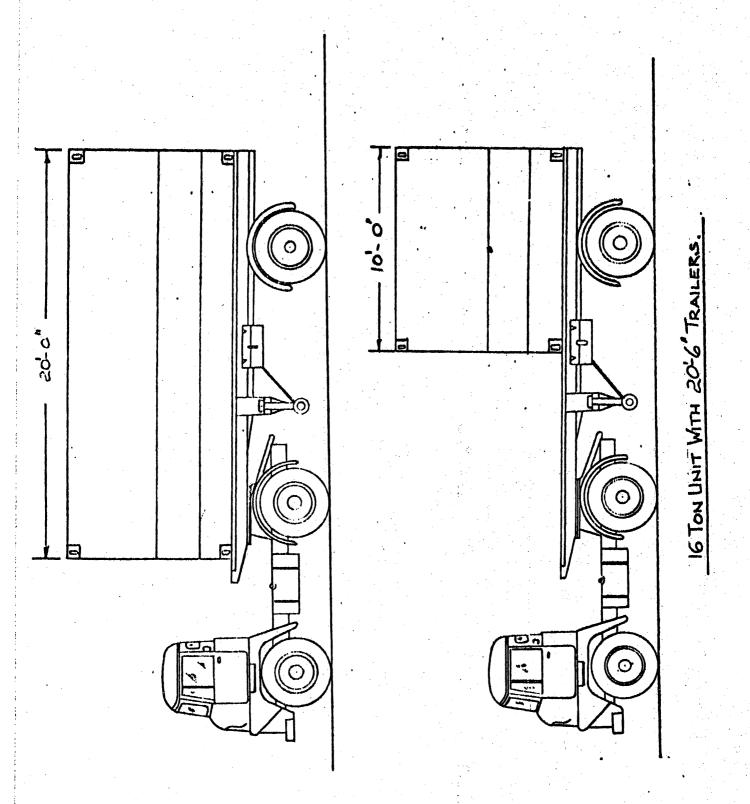
12 TON UNIT WITH 20-6" TRALER.

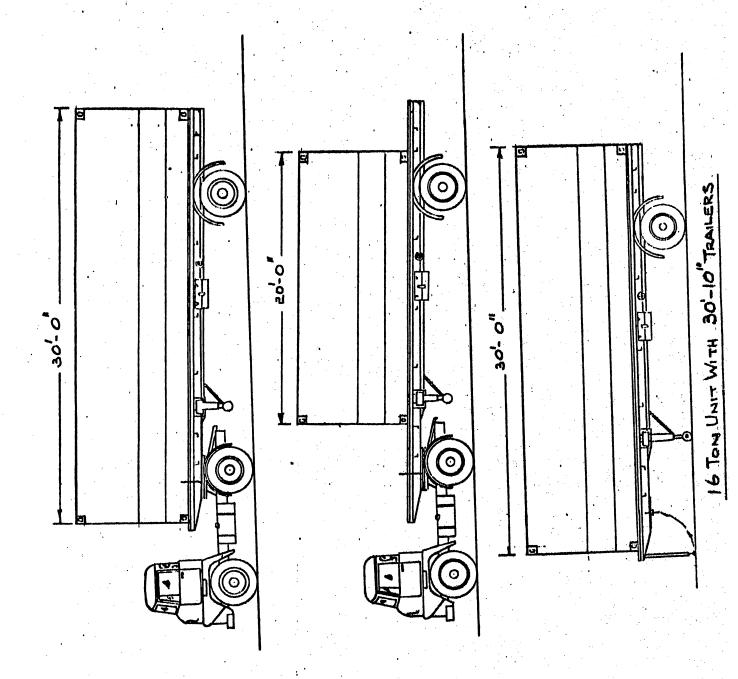


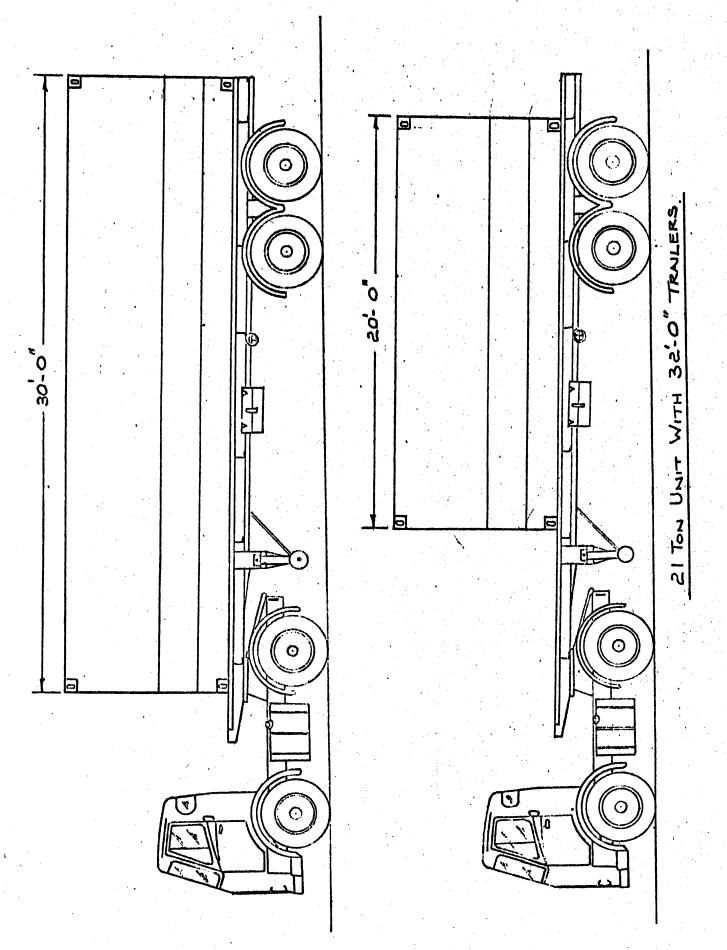
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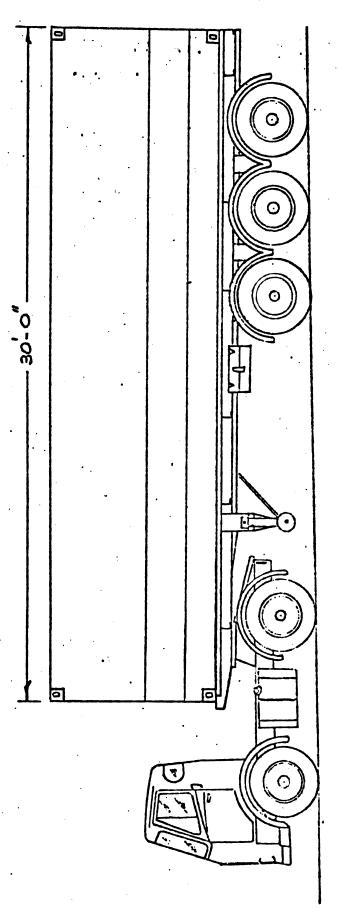
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22 TON UNIT WITH 30'-OF TRAILER.

One of two twin-screw dissel-engined vessels to be built for Parkeston Quay - Zeebrugge service