Fig. 123 (Rev. 02/09) (Concluded)
(New 02/60)

PIPE, STEEL, 26 IN. O.D. AND LESS, UNIFORM OR MIXED LENGTHS AND DIAMETERS, WITH WIRE, NO. 3 GAUGE HIGH TENSION—GONDOLAS

Item	No. of Pcs.	Description
D	See Table 2.	Stake ties: two strands of No. 8 gauge high tension wire. Place one tie near top of car side, place one tie across top of load. Intermediate ties required should be equally spaced between the bottom and top ties.

Table 2.

No. of Stake Ties	Pile Height Above Car Side		
	2 ft or less	over 2 ft 4 in.	over 4 ft
2	2 ties	3 ties	4 ties

Note: On loads 18 in. or less above car sides, space ties not less than 18 in. apart.

E	See Table 3.	Unitizing wires: No. 8 gauge high tension wire. Place around entire pile, as far from bearing pieces and separators as possible.

Table 3.

Pile Length	Pile Height Above Car Side	
	3 ft 6 in. or less	over 3 ft 6 in.
34 ft or less	5 wires	6 wires
Over 34	6 wires	8 wires

F	As required. Minimum 3 per layer when used.	Separators: horizontal, lumber 2 in. × 4 in. Maximum length must not exceed width of car. Minimum length equal to width of load. Use optional.
G	As required.	Separators: vertical. Use any suitable material. Must be placed or constructed to prevent displacement. Use optional. Not shown on drawing.

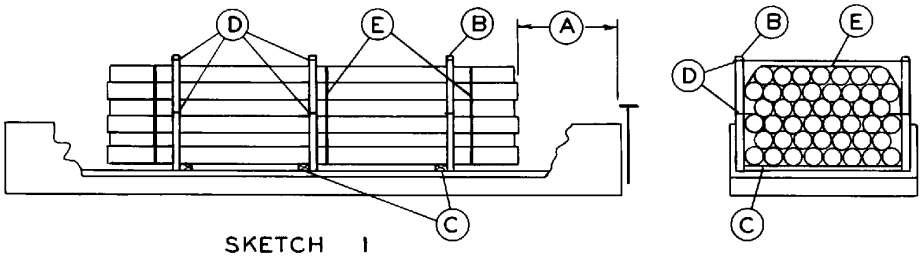
Notes and Additional Requirements:

1. Height of load above car floor must not exceed 10 ft.
2. Pipe under 12 ft long must be loaded below top of car sides.
3. Small-diameter pipe must not be loaded inside larger-diameter pipe, except when loaded below top of car sides.
4. Pipe can be nested only below top of car side.
5. Pipe located on the outside of pile must contact all stakes used on that pile.
6. Suitable nesting, blocking, or securement must be used to fill in crosswise voids.
7. If separators are used:
   - 7.1. When mixed diameters are loaded in one layer except the top layer, the layer must be leveled off with either additional pipe or suitable blocking.
   - 7.2. When a layer of smaller-diameter pipe is loaded on top of layer of larger-diameter pipe, suitable supports must be used under Item F or two 2 × 4s side by side or equivalent must be used for each separator required.
8. Flat metal strips, heavy paper, or other similar material may be placed between pipe where separations are required for identification purposes.
9. Tubular steel poles, tapered or made of two or more sections of different diameters, must be loaded with the large and small ends alternated in each layer. Use suitable fillers when necessary to equalize the load.

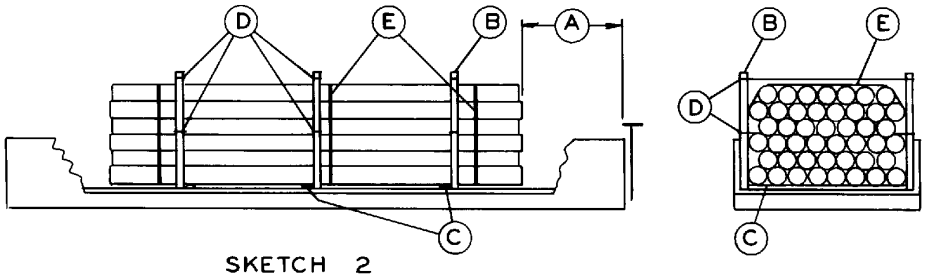
Reference the General Rules in Section No. 1 of the *Open Top Loading Rules Manual* for additional details.

Fig. 124 (Rev. 10/14)
(New 02/60)

PIPE, STEEL, 26 IN. O.D. OR LESS, UNIFORM OR MIXED LENGTHS AND DIAMETERS—GONDOLAS (MUST HAVE 4 FT VOID AT EACH END ON MATERIAL LOADED ABOVE CAR ENDS AT ORIGIN)



SKETCH 1



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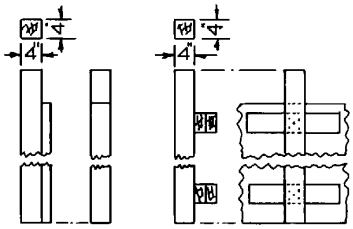
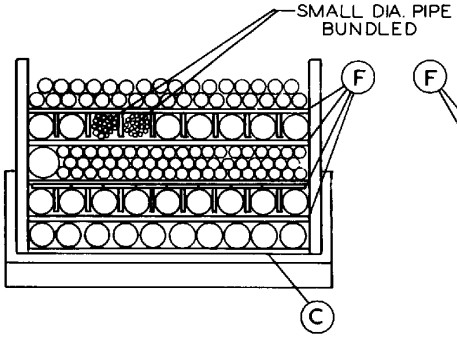
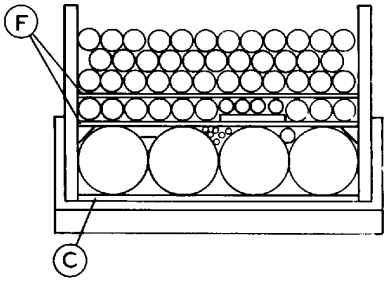


SKETCH B-1



SKETCH 3



SKETCH 4

Item	No. of Pcs.	Description
A		Brake wheel clearance: see General Rule 2 in Section 1.
B	See Table 1.	Side stakes: lumber per General Rule 13.1, Section 1. Stakes must be of sufficient length to allow for placement of stake ties, Item D across top of load. Stakes should be equally spaced. Locate end stakes approximately 3 ft from ends of pipe contacting the stakes. Adequate fillers must be secured to the stake at each layer of pipe to fill inner and outer voids between stake and car side and between the stake and the pipe. See Sketch B-1.

Table 1.

	Pile Height Above Car Sides	
Pile Length	**3 ft 6 in. or less**	**Over 3 ft 6 in.**
34 ft or Less	3 pairs	4 pairs
Over 34 ft	4 pairs	4 pairs*

*If the load extends 5 ft 6 in. above the car side, or the load is 9 ft or higher above car floor, five pairs of stakes are required.

IMPLEMENTED 11/2014

Fig. 124 (Rev. 10/14) (Concluded)
(New 02/60)

PIPE, STEEL, 26 IN. O.D. OR LESS, UNIFORM OR MIXED LENGTHS AND DIAMETERS—GONDOLAS (MUST HAVE 4 FT VOID AT EACH END ON MATERIAL LOADED ABOVE CAR ENDS AT ORIGIN)

Item	No. of Pcs.	Description
C	3 per pile.	Bearing pieces: 2 in. × 4 in. lumber. Length must be approximately equal to width of car, but not less than width of load. Space suitably under each pile.
D	See Table 2.	Stakes ties: 1 1/4 × .029 high tension band or six strands of No. 11 gauge wire or two strands of No. 8 gauge high tension wire. Place one tie close to top of car side and one across top of load. Intermediate ties required should be equally spaced between top and bottom ties.

Table 2.

	Pile Height Above Car Sides		
	2 ft or less	Over 2 ft to 4 ft	Over 4 ft
Number of Stake Ties	2 ties*	3 ties	4 ties

Note: *On loads 18 in. or less above car sides, space ties not less than 18 in. apart.

E	See Table 3.	Encircling bands: 1 1/4 × .029 high tension. Place around entire pile. Locate as far from bearing pieces and stakes as possible.

Table 3.

	Pile Height Above Car Sides	
Pile Length	3 ft 6 in. or less	Over 3 ft 6 in.
34 ft or Less	3 bands	4 bands
Over 34 ft	4 bands	6 bands

F	As required. Minimum 3 per pile when used.	Separators: horizontal, 2 in. × 4 in. lumber. Maximum length must not exceed width of car. Minimum length equal to width of load. Use optional.
G	As required.	Separators: vertical. Use any suitable material. Must be applied to prevent displacement. Use optional.

Notes and Additional Requirements:

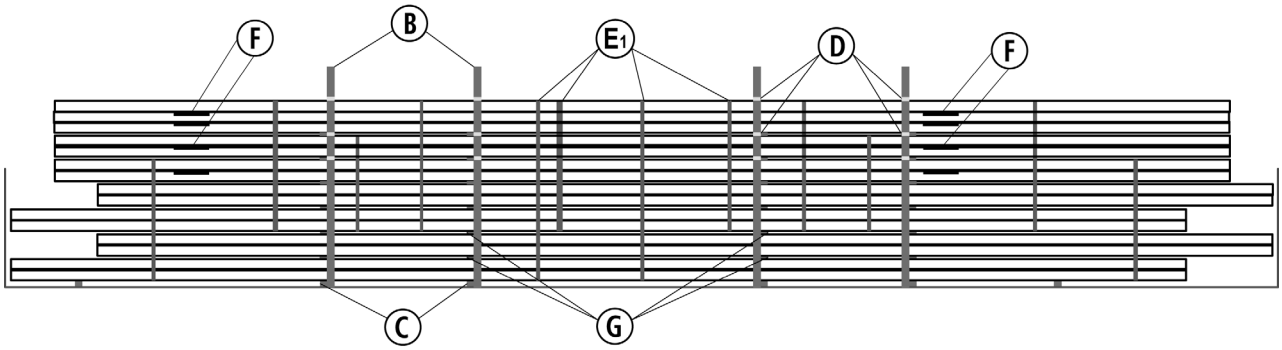
1. Height of load above car floor must not exceed 10 ft.
2. Pipe under 12 ft long must be loaded below top of car sides.
3. Small-diameter pipe must not be loaded inside larger-diameter pipe, except when loaded below top of car sides.
4. Pipe located on the outside of pile must contact all stakes used on that pile.
5. Suitable nesting, blocking, or securement must be used to fill in crosswise voids.
6. If horizontal separators are used:
   - 6.1. When mixed diameters are loaded in same layer except the top layer, the layer must be leveled off with additional pipe or suitable blocking.
   - 6.2. When a layer of smaller-diameter pipe is loaded on top of larger-diameter pipe, suitable supports must be used under Items F, or two 2 × 4's side-by-side or equivalent must be used for each separator required.
7. Flat metal strips, heavy paper, or other similar material may be placed between pipe where separations are required for identification purposes.
8. Tubular steel poles, tapered or made of two or more sections of different diameters, must be loaded with the large and small ends alternated in each layer. Use suitable fillers when necessary to equalize load.
9. All pipe loaded above the car sides must be 8 ft less in length than the inside length of car and centered at origin. On gondola cars equipped with end bulkheads higher than the car sides, pipe may be full length of car provided the pipe does not exceed the height of the bulkheads.

Reference the General Rules in Section No. 1 of the *Open Top Loading Rules Manual* for additional details.

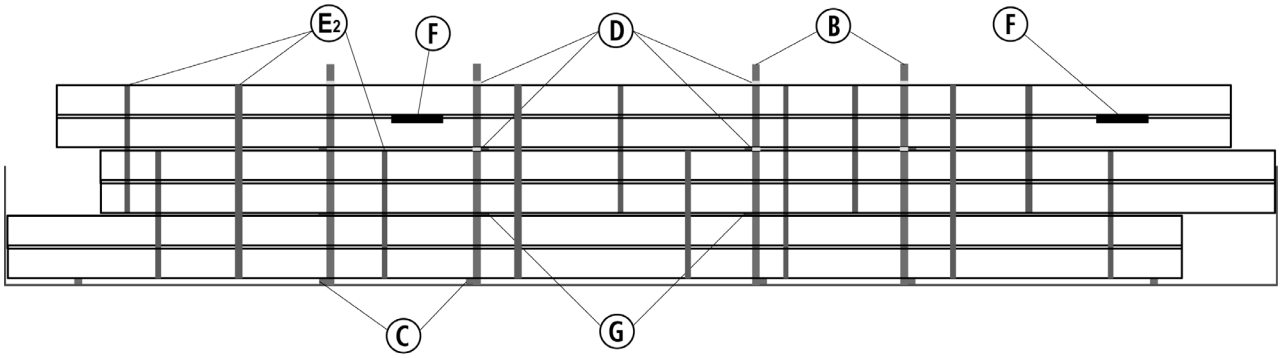
IMPLEMENTED 11/2014

Fig. 124-A
(New 01/13)

PIPE, STEEL, COATED OR UNCOATED, 24 IN. OD OR LESS, 40 FT TO 61 FT LONG—GONDOLAS



Sketch 1 (12 in. diameter or less)



Sketch 2 (12 in. to 24 in. diameter)

Item	No. of Pcs.	Description
A		Vacant
B	See Table 1.	Side stakes: hardwood. Stakes must be of sufficient length to allow for placement of stake ties, Item D, across top of load. Stakes should be equally spaced. Locate end stakes approximately 3 ft from ends of pipe contacting the stakes. Adequate fillers must be secured to the stake at each layer of pipe to fill inner and outer voids between stake and car side and between the stake and the pipe.

Table 1.

Pile Length	Pile Height Above Car Sides	
	5 ft 6 in. or less	Over 5 ft 6 in.
40 ft to 60 ft	4 pairs	5 pairs

*If the load extends 5 ft 6 in. above the car side, or the load is 9 ft or higher above car floor, five pairs of stakes are required.

IMPLEMENTED 11/2014