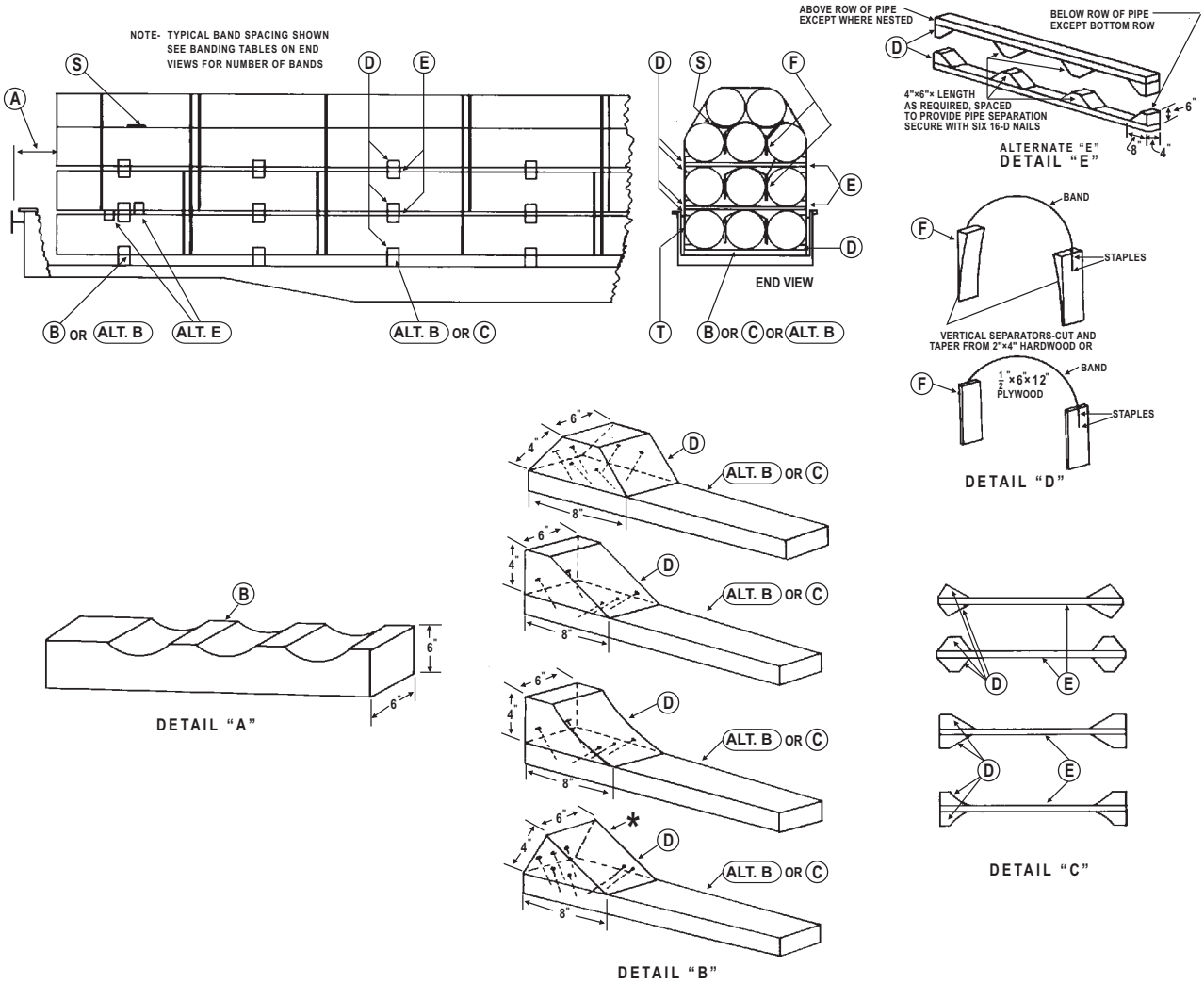
Fig. 260 (Rev. 12/14)
(New 10/73)

PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 54 IN. O.D., 60 FT LONG, SINGLE PILE—GONDOLAS, 65 FT



Item	No. of Pcs.	Description
A		Brake wheel clearance: see General Rule 2 in Section 1.
B	2 per pile. (Not used with Alternate Item B.)	End bearing pieces: 6 in. × 6 in. minimum, hardwood, length about equal to width of car, contoured to fit pipe diameter, ends not more than 3 in. for inside face of stake pockets. Secure to car floor with ten 8-in. spikes (Detail A).
C	Minimum 2 per pile. (Not used with Alternate Item B.)	Intermediate bearing piece: 4 in. × 6 in. minimum, hardwood, length about equal to width of car, ends not more than 3 in. from side of car (Detail B).
D	2 each Item C. 4 each Item E. 2 each Alternate Item B. 4 each Alternate Item E.	Wood chock blocks: 4 in. × 6 in. × 8 in., cut to fit contour of pipe or wedge-shaped. Locate to contact pipe and nail to Items C, E, Alternate B, and/or Alt E with five or six 16-D nails (Detail B, C, and E). Alternate 6 in. × 4 in. × 8 in. chock blocks may be used. *Secure with seven 16-D power-driven nails.
E	Minimum of 4 between tiers not nested.	Separator: 2 in. × 6 in. hardwood, length about equal to width of load and sufficient to apply Item D (Detail C). Separator: 6 in. × 6 in. contoured to a maximum of 2 in. top and bottom may be used as an alternate.
F	As required.	Vertical separators: consisting of material such as plywood, hardwood, or hard rubber that will not easily compress. Use a minimum of three separators per row. Use optional (Detail D).

IMPLEMENTED 12/2014

Fig. 260 (Rev. 12/14) (Continued)
(New 10/73)

PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 54 IN. O.D., 60 FT LONG, SINGLE PILE—GONDOLAS, 65 FT

Item	No. of Pcs.	Description
G thru R	See banding tables on sketches.	High tension bands: 2 in. × .044 in. All bands passing around bottom of load must be placed close together to allow maximum free space between Items B and C or Alternate Items B.
G	"	To encircle bottom two tiers.
H	"	To encircle bottom three tiers.
J	"	To encircle bottom four tiers.
K	"	To encircle tiers 2 and 3.
L	"	To encircle tiers 2, 3, and 4.
M	"	To encircle top tier only.
N	"	To encircle top two tiers.
O	"	To encircle top three tiers.
P	"	To encircle top four tiers.
Q	"	To encircle top five tiers.
R	"	To encircle all tiers.
S	4 per nested tier.	Protective material: use optional.
T	4 per load, 2 each side.	Lumber protectors: secured to top of car side. Use optional.
Alternate Items B and E		
Alt B	Minimum 4 per pile.	Bearing piece: 2 in. × 6 in. hardwood, length about equal to width of car, ends not more than 3 in. from side of car (Detail B).
Alt E	Minimum 3 pair per tier not nested.	Separators: a pair is two pieces as shown in Detail E. Place at three locations throughout length of load, one pair adjacent to each end Item E and one pair adjacent to Item E nearest center of load. Use optional.

Notes and Additional Requirements:

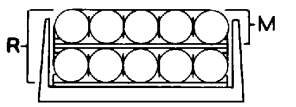
1. This figure is designed and intended for nominal pipe lengths of 60 ft (–10 ft). Random-length variations are acceptable provided all other criteria of this figure are met (see Note 2).
2. Longer-length pipe must be located on the bottom layer of the load. Place pipe shorter than 45 ft on the top two tiers. Length of pipe to be no less than 20 ft.
3. Bands shown are sufficient for loads up to 140,000 lb. Add one band of each designation, on load sketch used, for each additional 20,000 lb or less of load weight.
4. Bearing pieces and separators, as shown, are sufficient for loads up to 140,000 lb. Add one additional bearing piece and separator for each additional 20,000 lb or less of load weight.
5. When short pipe lengths are loaded on the top two tiers (see Note 2), place two extra bands that encircle the top two-thirds of the pile to include the shortest pipe length. A short length of pipe is defined as 15 ft less than the longest pipe.
6. Pipe must be centrally located on car.
7. When pipe is coated and/or wrapped, adequate padding or protection must be used to prevent chafing at bearing points. (Shipper's discretion to use as optional requirement.)
8. More pieces per tier (width of load) may be loaded if the same end configuration and number of bands required by all sketches are applied as indicated.
9. All banding must be equally spaced throughout the entire pile.
10. Maximum two pipe lengths can be loaded end to end (double-ended) on the top two tiers. The distance between the pipe must be a minimum of 12 in. and a maximum of 24 in. Pipe that is double-ended can be no longer than the pieces directly beneath it.

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

IMPLEMENTED 12/2014

Fig. 260 (Rev. 12/14) (Continued)
(New 10/73)

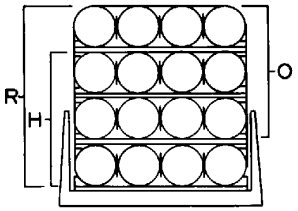
PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 54 IN. O.D., 60 FT LONG, SINGLE PILE—GONDOLAS, 65 FT



OUSIDE DIAMETER (S) 16"–20"
NUMBER OF PIECES 10

G	H	J	K	L	M	N	O	P	Q	R
					7					7

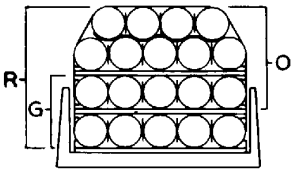
SKETCH NO. 1



OUTSIDE DIAMETER(S) 16"–24"
NUMBER OF PIECES 16

G	H	J	K	L	M	N	O	P	Q	R
	5						5			6

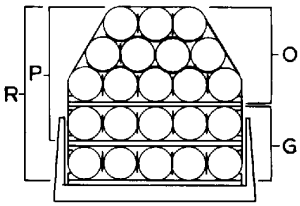
SKETCH NO. 2



OUTSIDE DIAMETER(S) 16"–20"
NUMBER OF PIECES 19

G	H	J	K	L	M	N	O	P	Q	R
5							5			6

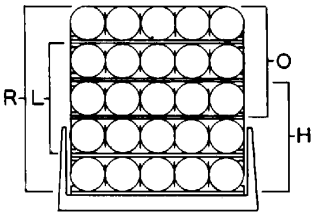
SKETCH NO. 3



OUTSIDE DIAMETER(S) 16"–20"
NUMBER OF PIECES 22

G	H	J	K	L	M	N	O	P	Q	R
4							4	4		6

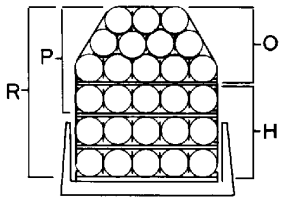
SKETCH NO. 4



OUTSIDE DIAMETER(S) 16"–20"
NUMBER OF PIECES 25

G	H	J	K	L	M	N	O	P	Q	R
	4			4			4			6

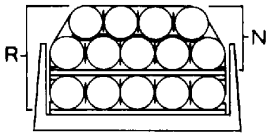
SKETCH NO. 5



OUTSIDE DIAMETER(S) 16"–20"
NUMBER OF PIECES 27

G	H	J	K	L	M	N	O	P	Q	R
	4						4	4		6

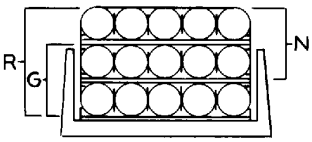
SKETCH NO. 6



OUTSIDE DIAMETER(S) 16"–20"
NUMBER OF PIECES 14

G	H	J	K	L	M	N	O	P	Q	R
						7				7

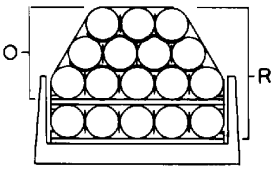
SKETCH NO. 7



OUTSIDE DIAMETER(S) 16"–20"
NUMBER OF PIECES 15

G	H	J	K	L	M	N	O	P	Q	R
5						5				6

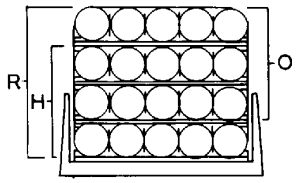
SKETCH NO. 8



OUTSIDE DIAMETER(S) 16"–20"
NUMBER OF PIECES 17

G	H	J	K	L	M	N	O	P	Q	R
							7			7

SKETCH NO. 9



OUTSIDE DIAMETER(S) 16"–20"
NUMBER OF PIECES 20

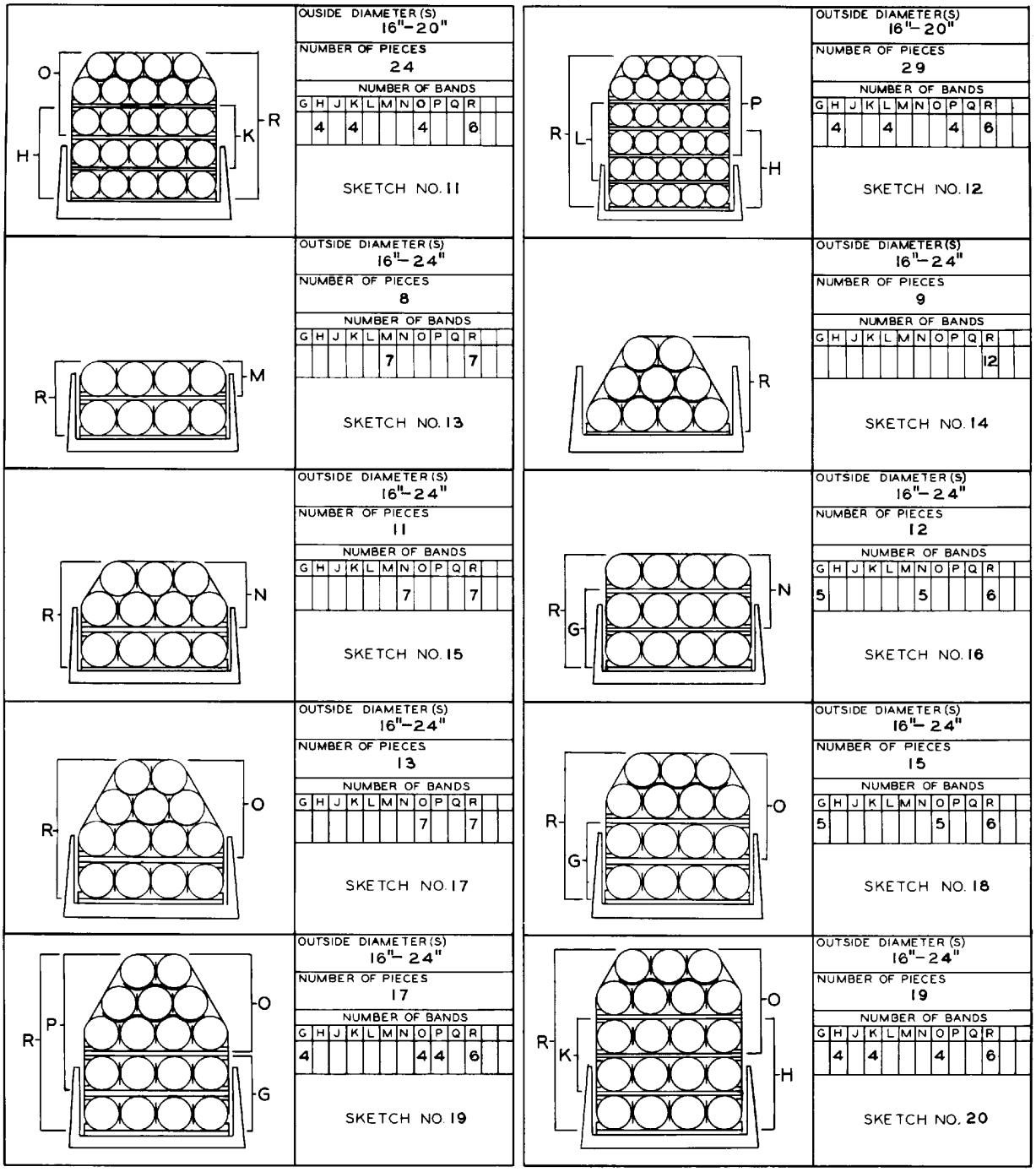
G	H	J	K	L	M	N	O	P	Q	R
	4						6			6

SKETCH NO. 10

IMPLEMENTED 12/2014

Fig. 260 (Rev. 12/14) (Continued)
(New 10/73)

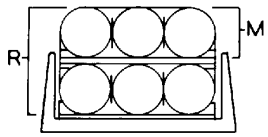
PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 54 IN. O.D., 60 FT LONG, SINGLE PILE—GONDOLAS, 65 FT



IMPLEMENTED 12/2014

Fig. 260 (Rev. 12/14) (Concluded)
(New 10/73)

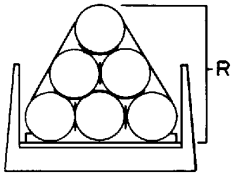
PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 54 IN. O.D., 60 FT LONG, SINGLE PILE—GONDOLAS, 65 FT



OUSIDE DIAMETER (S) 16"– 36"
NUMBER OF PIECES 6
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
					7					7

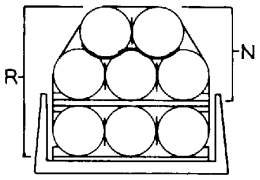
SKETCH NO. 21



OUTSIDE DIAMETER(S) 16"– 36"
NUMBER OF PIECES 6
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
										10

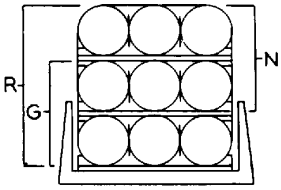
SKETCH NO. 22



OUTSIDE DIAMETER (S) 16"– 36"
NUMBER OF PIECES 8
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
					7					7

SKETCH NO. 23



OUTSIDE DIAMETER(S) 16"– 36"
NUMBER OF PIECES 9
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
5						5				6

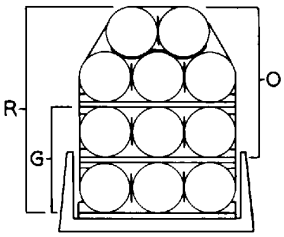
SKETCH NO. 24

Sketch Omitted Intentionally

OUTSIDE DIAMETER (S)
NUMBER OF PIECES
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R

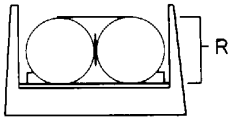
SKETCH NO. 25



OUTSIDE DIAMETER (S) 16"– 36"
NUMBER OF PIECES 11
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
5							5			6

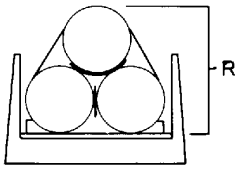
SKETCH NO. 26



OUTSIDE DIAMETER (S) 16"– 54"
NUMBER OF PIECES 2
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
										6

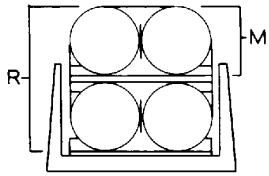
SKETCH NO 27



OUTSIDE DIAMETER (S) 16"– 54"
NUMBER OF PIECES 3
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
										8

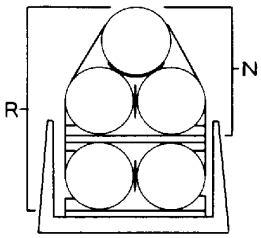
SKETCH NO. 28



OUTSIDE DIAMETER (S) 16"– 54"
NUMBER OF PIECES 4
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
					7					7

SKETCH NO. 29



OUTSIDE DIAMETER (S) 16"– 54"
NUMBER OF PIECES 5
NUMBER OF BANDS

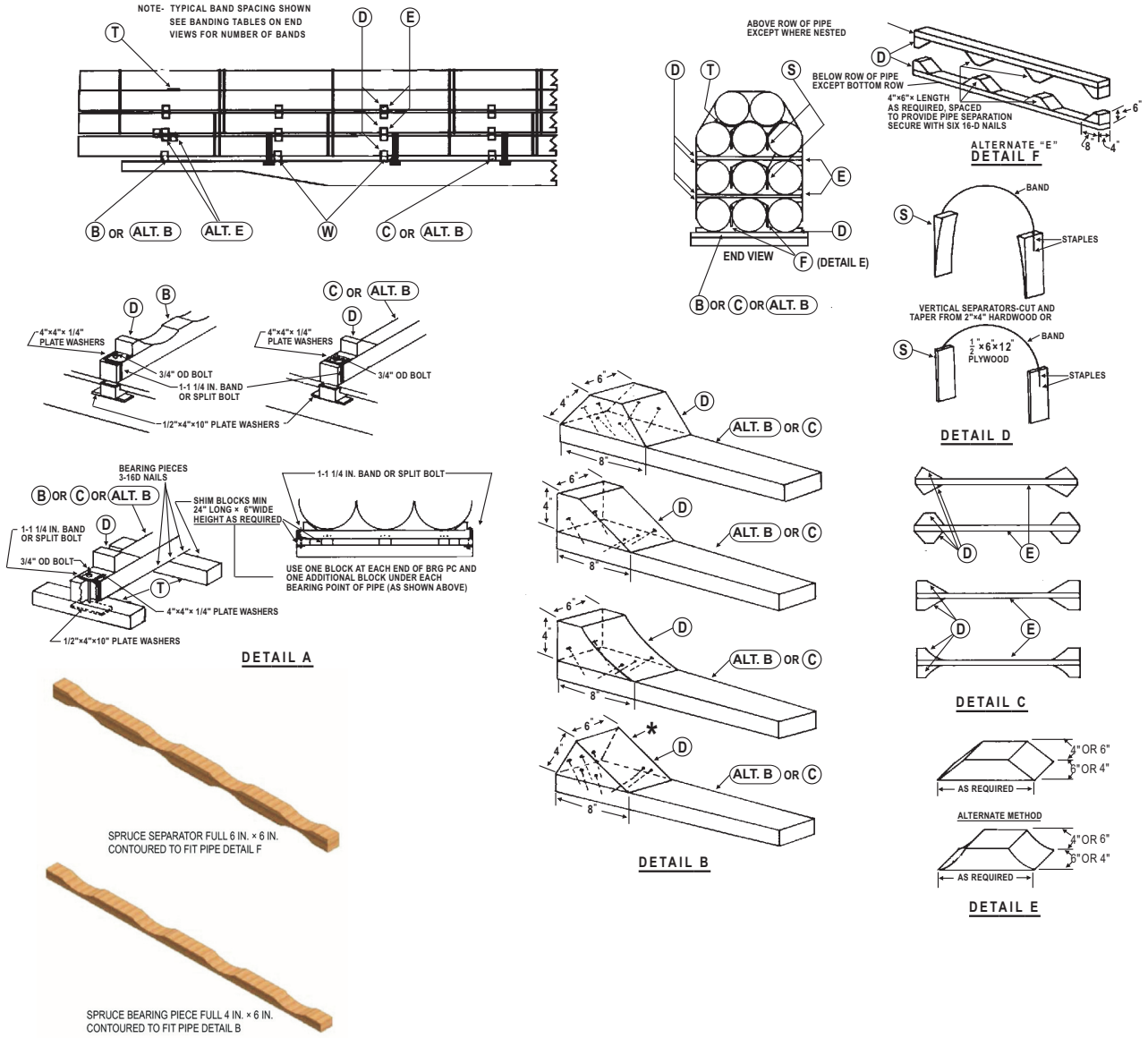
G	H	J	K	L	M	N	O	P	Q	R
						7				7

SKETCH NO. 30

IMPLEMENTED 12/2014

Fig. 263 (Rev. 12/14)
(New 10/73)

PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 72 IN. O.D., 60 FT LONG, SINGLE PILE, WITH OR WITHOUT SINGLE-END OVERHANG—FLATCARS



Item	No. of Pcs.	Description
A		Brake wheel clearance: see General Rule 2 in Section 1. Load must be located not less than 2 ft 6 in. from B end of car.
B	2 per pile. (Not used with Alternate Item B-1 or Alternate Item B-2.)	End bearing piece: 6 in. × 6 in. hardwood, length equal to width of car. Contour to fit pipe diameter. Increase height as required to provide minimum 4-in. clearance over idler cars. Secure through stake pockets or car floor with two 3/4-in.-diameter bolts. Bolts are also to pass through end Items U when used. Use a 1/2 in. × 4 in. × 10 in. plate at bottom of stake pocket or 1/2 in. × 4 in. × 18 in. plate under floor and a 1/4 in. × 4 in. × 4 in. plate washer on top of Item B. Where bolts are applied through stake pockets, they must be placed as close as possible to the inside face of the stake pocket.
C	Minimum 3 per pile. (Not used with Alternate Item B-1 or Alternate Item C.)	Intermediate bearing piece: 4 in. × 6 in. hardwood, length equal to width of car. Secure with three 3/4-in.-diameter bolts, one at each end and one as close as possible to center line of car. Hardwood, 6 in. × 6 in. or heavier, to be secured with two 3/4-in.-diameter bolts one at each end of Item C. Bolts are also to pass through end Items U, when used. Plate washers to be used in accordance with Item B. Where bolts are applied through stake pockets, they must be placed as close as possible to the inside face of the stake pocket (Detail A).

IMPLEMENTED 12/2014

IMPLEMENTED 12/2014

Fig. 263 (Rev. 12/14) (Continued)
(New 10/73)

PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 72 IN. O.D., 60 FT LONG, SINGLE PILE, WITH OR WITHOUT SINGLE-END OVERHANG—FLATCARS

Item	No. of Pcs.	Description
D	2 each Item B. 2 each Item C. 4 each Item E. 2 each Alternate Item B. 4 each Alternate Item E.	Wood chock blocks: 4 in. × 6 in. × 8 in., cut to fit contour of pipe or wedge-shaped. Locate to contact pipe and nail to Items B, C, E, Alternate B, and/or Alternate E with five or six 16-D nails (Detail A, B, C, and F). Alternate 6 in. × 4 in. × 8 in. chock blocks may be used. *Secure with seven 16-D power-driven nails.
E	Minimum of 6 between tiers not nested.	Separator: 2 in. × 6 in., hardwood, length about equal to width of load and sufficient to apply Items D (Detail C). Separator: 6 in. × 6 in., hardwood or spruce, contoured to a maximum of 2 in. top and bottom may be used as an alternate.
F	As required on end Alternate Items B.	Wood intermediate chock blocks: 4 in. × 6 in. or 6 in. × 4 in., cut to fit contour of pipe or wedge-shaped. Length as required by pipe diameter. Locate to contact pipe and nail to Alternate Item B with six 16-D nails (Detail E and End View).
G thru R	See banding tables on sketches.	High tension bands: 2 in. × .044 in. All bands passing around bottom of load must be placed close together to allow maximum free space between Item B, C, and Alternate Items B.
G	"	To encircle bottom three tiers.
H	"	To encircle bottom three tiers.
J	"	To encircle bottom four tiers.
K	"	To encircle tiers 2 and 3.
L	"	To encircle tiers 2, 3, and 4.
M	"	To encircle top tier only.
N	"	To encircle top two tiers.
O	"	To encircle top three tiers.
P	"	To encircle top four tiers.
Q	"	To encircle top five tiers.
R	"	To encircle all tiers.
S	As required.	Vertical separators: consisting of material such as plywood, hardwood, or hard rubber that will not easily compress. Use optional (Detail D).
T	4 per nested tier.	Protective material: use optional.
U	As required.	Shim blocks: minimum 6 in. wide × 24 in. long, height as required. Use one at each end of Items B, C, or Alternate B and one for each row of pipe. Secure end Items U with bolts used to secure Items B, C, or Alternate B. Secure intermediate Items U with six 16-D nails (Detail A).
V		Vacant
W	4 per pile.	Tie-down assemblies: consisting of a ratchet and polyester woven straps 4 in. wide with 5,335-lb working load limit. Locate near bearing pieces where practical. Place over bottom layer of pipe and anchor to opposite side of car, securing to prevent displacement. Winch taut using a minimum 30-in. bar. Maintain as much clearance from steel bands as possible to avoid damage to straps. Not required for uncoated pipe. Note: This application may be used only on sketches utilizing Item E separators between the bottom and second layers.
Alternate securement items		
Alt B-1	Minimum 5 per pile. (Not used with Alternate Items B-2 and C.)	All bearing pieces: 4 in. × 6 in. hardwood, length equal to width of car. Secure with 3/4-in.-diameter bolts, one at each end and one as close as possible to the center line of car. Hardwood, 6 in. × 6 in. or heavier, to be secured with two 3/4-in. bolts, one at each end. Bolts are also to pass through end Items U when used and must be applied according to Item B (Detail A).
Alt B-1A	Minimum 7 per pile. (Not used with Alternate Items B-2 and C.)	All bearing pieces: 4 in. × 6 in., spruce, contoured 2 in. deep to fit radius of pipe, length equal to width of car. Secure with ten 7-in. nails or with three 3/4-in.-diameter bolts, one at each end and one as close as possible to centerline of car. Item D chocks optional (Detail A).

Fig. 263 (Rev. 12/14) (Continued)
(New 10/73)

PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 72 IN. O.D., 60 FT LONG, SINGLE PILE, WITH OR WITHOUT SINGLE-END OVERHANG—FLATCARS

Item	No. of Pcs.	Description
Alt B-2	2 per pile. (Use with Alternate Item C.)	End bearing pieces: minimum 4 in. × 6 in. hardwood, length equal to width of car. Contour to fit pipe diameter and secure to car floor with ten 60-D nails. May be substituted with 2 in. × 6 in. hardwood, noncontoured, with Item D chock blocks applied on each side of each piece of pipe. Secure each bearing piece to car floor with eight 40-D nails.
Alt C	Minimum 3 per pile. (Use with Alternate Item B-2.)	Intermediate bearing pieces: minimum 2 in. × 6 in. hardwood, length equal to width of car. Secure each to car floor with six 20-D nails.
Alt E	Minimum 3 pair per tier not nested.	Separators: a pair is two pieces as shown in Detail F. Place at three locations throughout length of load, one pair adjacent to each end Item E and one pair adjacent to Item E nearest center of load. Use optional.

Notes and Additional Requirements:

1. This figure is designed and intended for nominal pipe lengths of 60 ft (±15 ft). Random-length variations are acceptable provided all other criteria of this figure are met (see Note 2).
2. Longer length pipe must be located on the bottom layer of the load. Place pipe shorter than 45 ft on the top two tiers, unless complying with Note 15. Length of pipe to be no less than 20 ft.
3. Bands are sufficient for loads up to 140,000 lb. Add one band of each designation, on load sketch used, for each additional 20,000 lb or less of load weight.
4. When short pipe lengths are loaded on the top two tiers (see Note 2), place two extra bands that encircle the top 2/3 of pile to include the shortest pipe length. A short length of pipe is defined as 15 ft less than the longest pipe.
5. Bearing pieces and separators, as shown, are sufficient for loads up to 140,000 lb. Add one additional bearing piece and separator for each additional 20,000 lb or less of load weight.
6. Bearing pieces may be extended beyond width of car deck to accommodate the application of Item D chock blocks. When this application is necessary, extended portion must be supported or the bearing piece size increased to 4 in. × 6 in.
7. Except for overhang end of loads, all coated and wrapped pipe must be placed a minimum of 4 ft from end of car, and bare pipe must be a minimum of 3 ft from end of car.
8. When pipe is coated and/or wrapped, adequate padding or protection must be used to prevent chafing at bearing points. (Shipper's discretion to use as optional requirement.)
9. When obtaining clearance from the rail carriers for the movements of these loads, overhang length measurements must be reported to be 3 ft longer than the actual overhang measurements to allow for clearance when the load shifts.
10. More pieces per tier (width of load) may be loaded if the same end configuration and number of bands required by all sketches are applied as indicated.
11. Sketch Nos. 25 and 40 must be prepared with contoured chocks or bearing pieces.
12. Center line of pipe must be within inside edge of car side sills.
13. All banding must be equally spaced throughout the entire pile.
14. Maximum two pipe lengths can be loaded end to end (double-ended) on the top two tiers. The distance between the pipe must be a minimum of 12 in. and a maximum of 24 in. Pipe that is double-ended can be no longer than the pieces directly beneath it.
15. Maximum two pipe lengths can be loaded end to end (double-ended) on the bottom layer and must be equal to the length of pipes above it. The distance between the pipe must be a minimum of 12 in. and a maximum of 24 in. Outside pipe must be a single piece and be the full length of the load.

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

IMPLEMENTED 12/2014

IMPLEMENTED 12/2014

Fig. 263 (Rev. 12/14) (Continued)
(New 10/73)

PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 72 IN. O.D., 60 FT LONG, SINGLE PILE, WITH OR WITHOUT SINGLE-END OVERHANG—FLATCARS

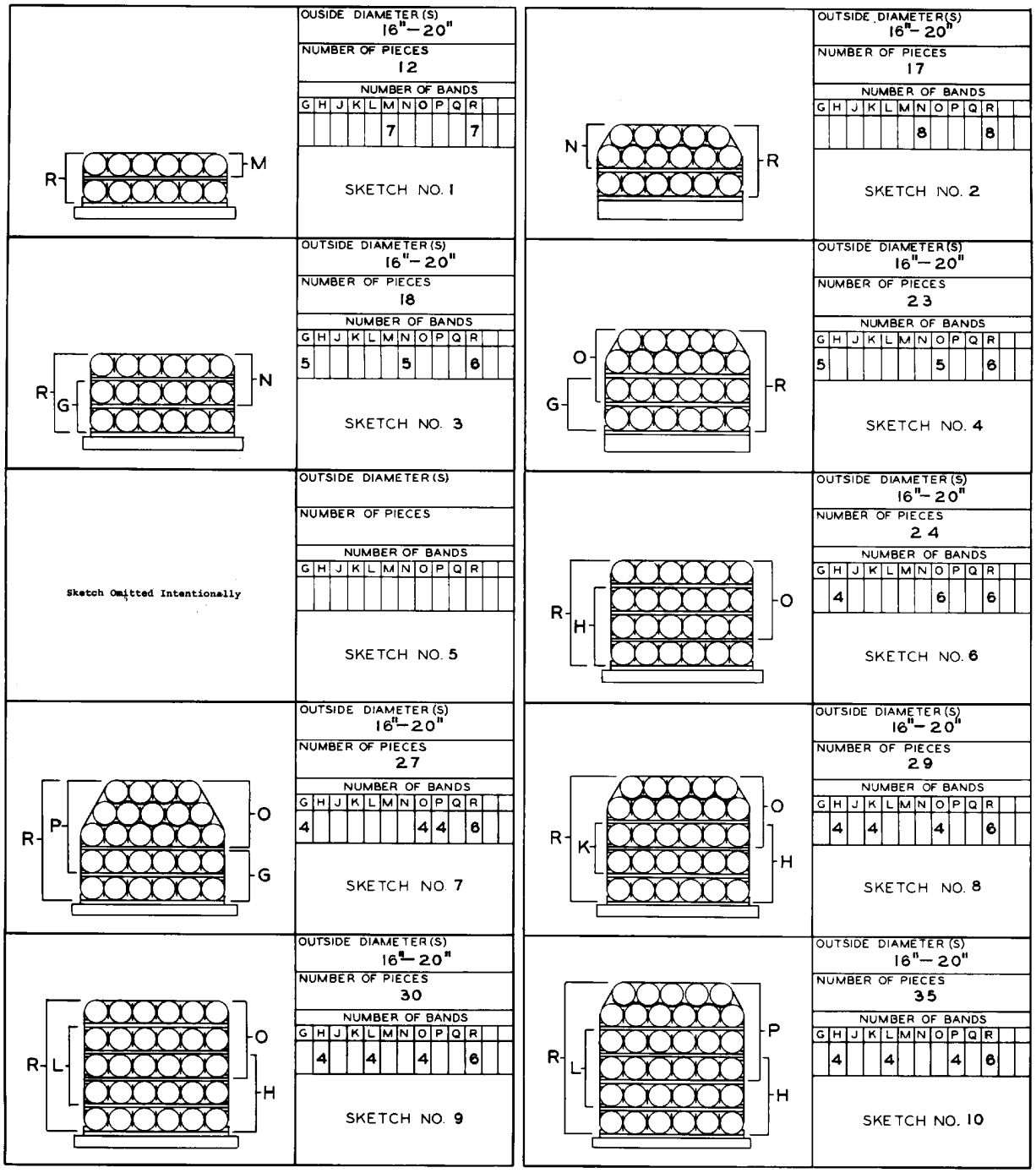


Fig. 263 (Rev. 12/14) (Continued)
(New 10/73)

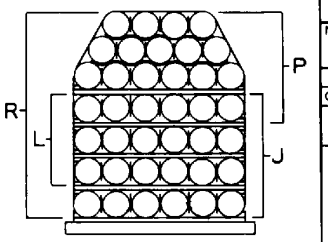
PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 72 IN. O.D., 60 FT LONG, SINGLE PILE, WITH OR WITHOUT SINGLE-END OVERHANG—FLATCARS

Sketch Omitted Intentionally

OUSIDE DIAMETER (S)
NUMBER OF PIECES
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R

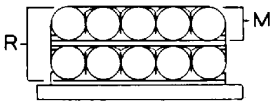
SKETCH NO. 11



OUTSIDE DIAMETER(S) 16"—20"
NUMBER OF PIECES 39
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
		5		5				5		6

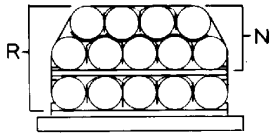
SKETCH NO. 12



OUTSIDE DIAMETER(S) 16"—24"
NUMBER OF PIECES 10
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
					7				7	

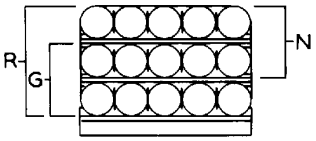
SKETCH NO. 13



OUTSIDE DIAMETER(S) 16"-24"
NUMBER OF PIECES 14
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
						7			7	

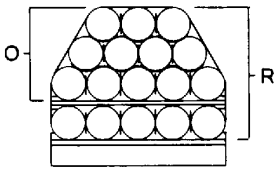
SKETCH NO. 14



OUTSIDE DIAMETER (S) 16"-24"
NUMBER OF PIECES 15
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
5						5			6	

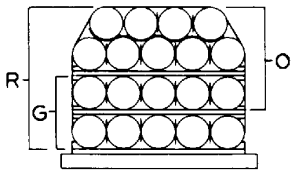
SKETCH NO. 15



OUTSIDE DIAMETER (S) 16"-24"
NUMBER OF PIECES 17
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
							7			7

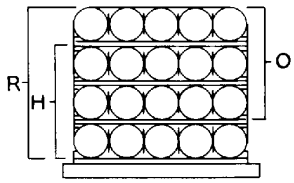
SKETCH NO. 16



OUTSIDE DIAMETER (S) 16"-24"
NUMBER OF PIECES 19
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
5							5			6

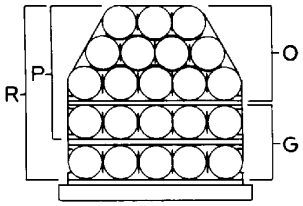
SKETCH NO. 17



OUTSIDE DIAMETER (S) 16"-24"
NUMBER OF PIECES 20
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
	4						6			6

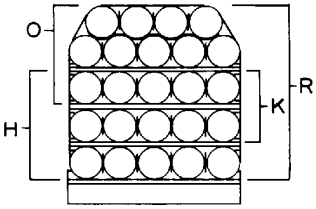
SKETCH NO. 18



OUTSIDE DIAMETER (S) 16"-24"
NUMBER OF PIECES 22
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
4							4	4		6

SKETCH NO. 19



OUTSIDE DIAMETER (S) 16"-24"
NUMBER OF PIECES 24
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
	4		4				4			6

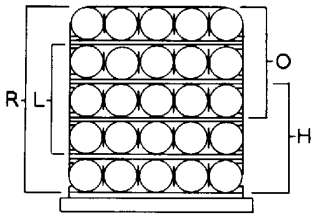
SKETCH NO. 20

IMPLEMENTED 12/2014

IMPLEMENTED 12/2014

Fig. 263 (Rev. 12/14) (Continued)
(New 10/73)

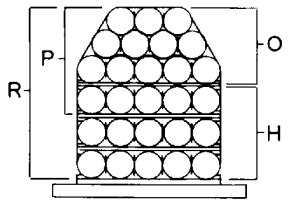
PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 72 IN. O.D., 60 FT LONG, SINGLE PILE, WITH OR WITHOUT SINGLE-END OVERHANG—FLATCARS



OUSIDE DIAMETER (S) 16"– 24"
NUMBER OF PIECES 25

G	H	J	K	L	M	N	O	P	Q	R
	4			4			4			6

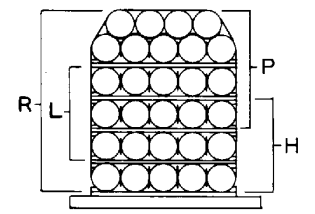
SKETCH NO. 21



OUTSIDE DIAMETER(S) 16"–24"
NUMBER OF PIECES 27

G	H	J	K	L	M	N	O	P	Q	R
	4						4	4		6

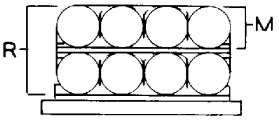
SKETCH NO 22



OUTSIDE DIAMETER(S) 16"–24"
NUMBER OF PIECES 29

G	H	J	K	L	M	N	O	P	Q	R
	4			4				4		6

SKETCH NO. 23

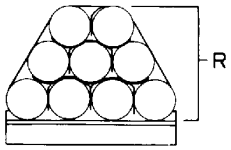


OUTSIDE DIAMETER(S) 16"– 32"
NUMBER OF PIECES 8

G	H	J	K	L	M	N	O	P	Q	R
					7					7

SKETCH NO. 24

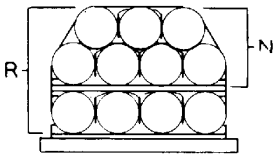
SEE NOTE 9



OUTSIDE DIAMETER(S) 16"– 32"
NUMBER OF PIECES 9

G	H	J	K	L	M	N	O	P	Q	R
										12

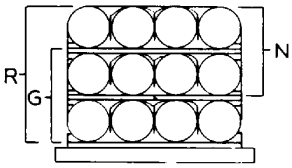
SKETCH NO. 25



OUTSIDE DIAMETER(S) 16"– 32"
NUMBER OF PIECES 11

G	H	J	K	L	M	N	O	P	Q	R
						7				7

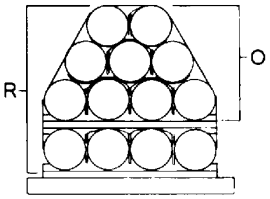
SKETCH NO. 26



OUTSIDE DIAMETER(S) 16"– 32"
NUMBER OF PIECES 12

G	H	J	K	L	M	N	O	P	Q	R
4					5					6

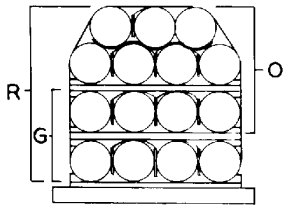
SKETCH NO. 27



OUTSIDE DIAMETER(S) 16"– 32"
NUMBER OF PIECES 13

G	H	J	K	L	M	N	O	P	Q	R
							7			7

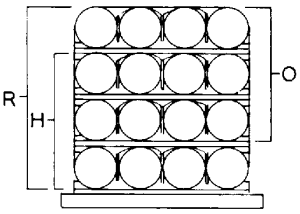
SKETCH NO. 28



OUTSIDE DIAMETER(S) 16"– 32"
NUMBER OF PIECES 15

G	H	J	K	L	M	N	O	P	Q	R
5							5			6

SKETCH NO. 29



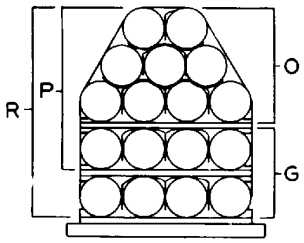
OUTSIDE DIAMETER(S) 16"– 32"
NUMBER OF PIECES 16

G	H	J	K	L	M	N	O	P	Q	R
	4						6			6

SKETCH NO. 30

Fig. 263 (Rev. 12/14) (Continued)
(New 10/73)

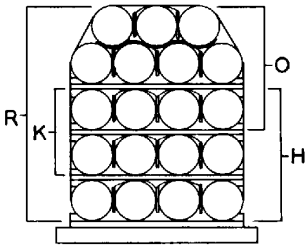
PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 72 IN. O.D., 60 FT LONG, SINGLE PILE, WITH OR WITHOUT SINGLE-END OVERHANG—FLATCARS



OUSIDE DIAMETER (S) 16"– 32"
NUMBER OF PIECES 17
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
4							4	4		6

SKETCH NO. 31



OUTSIDE DIAMETER(S) 16"– 32"
NUMBER OF PIECES 19
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
	4		4				4			6

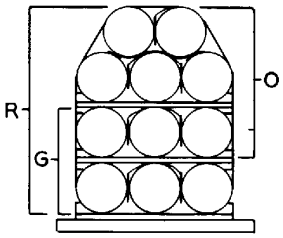
SKETCH NO. 32

Sketch Omitted Intentionally

OUTSIDE DIAMETER (S)
NUMBER OF PIECES
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R

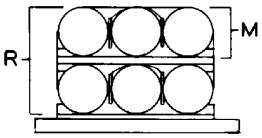
SKETCH NO. 33



OUTSIDE DIAMETER(S) 16"–42"
NUMBER OF PIECES 11
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
5							5			6

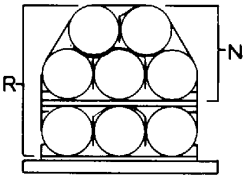
SKETCH NO. 34



OUTSIDE DIAMETER (S) 16"– 48"
NUMBER OF PIECES 6
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
					7					7

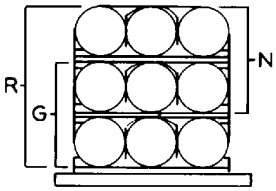
SKETCH NO. 35



OUTSIDE DIAMETER (S) 16"– 48"
NUMBER OF PIECES 8
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
						7				7

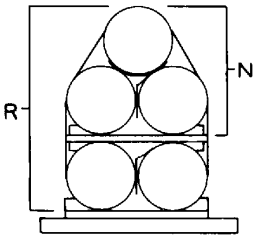
SKETCH NO. 36



OUTSIDE DIAMETER (S) 16"– 48"
NUMBER OF PIECES 9
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
5						5				6

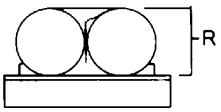
SKETCH NO. 37



OUTSIDE DIAMETER (S) 16"–54"
NUMBER OF PIECES 5
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
						7				7

SKETCH NO. 38

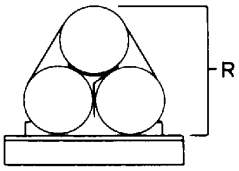


OUTSIDE DIAMETER (S) 16"–72"
NUMBER OF PIECES 2
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
										6

SKETCH NO. 39

SEE NOTE 9



OUTSIDE DIAMETER (S) 16"– 72"
NUMBER OF PIECES 3
NUMBER OF BANDS

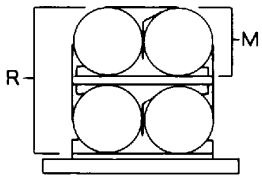
G	H	J	K	L	M	N	O	P	Q	R
										8

SKETCH NO. 40

IMPLEMENTED 12/2014

Fig. 263 (Rev. 12/14) (Concluded)
(New 10/73)

PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 72 IN. O.D., 60 FT LONG, SINGLE PILE, WITH OR WITHOUT SINGLE-END OVERHANG—FLATCARS



OUSIDE DIAMETER (S) 16"—72"
NUMBER OF PIECES 4

NUMBER OF BANDS												
G	H	J	K	L	M	N	O	P	Q	R		
					7				7			

SKETCH NO. 41

OUTSIDE DIAMETER (S)
NUMBER OF PIECES

NUMBER OF BANDS												
G	H	J	K	L	M	N	O	P	Q	R		

OUTSIDE DIAMETER (S)
NUMBER OF PIECES

NUMBER OF BANDS												
G	H	J	K	L	M	N	O	P	Q	R		

OUTSIDE DIAMETER (S)
NUMBER OF PIECES

NUMBER OF BANDS												
G	H	J	K	L	M	N	O	P	Q	R		

OUTSIDE DIAMETER (S)
NUMBER OF PIECES

NUMBER OF BANDS												
G	H	J	K	L	M	N	O	P	Q	R		

OUTSIDE DIAMETER (S)
NUMBER OF PIECES

NUMBER OF BANDS												
G	H	J	K	L	M	N	O	P	Q	R		

OUTSIDE DIAMETER (S)
NUMBER OF PIECES

NUMBER OF BANDS												
G	H	J	K	L	M	N	O	P	Q	R		

OUTSIDE DIAMETER (S)
NUMBER OF PIECES

NUMBER OF BANDS												
G	H	J	K	L	M	N	O	P	Q	R		

OUTSIDE DIAMETER (S)
NUMBER OF PIECES

NUMBER OF BANDS												
G	H	J	K	L	M	N	O	P	Q	R		

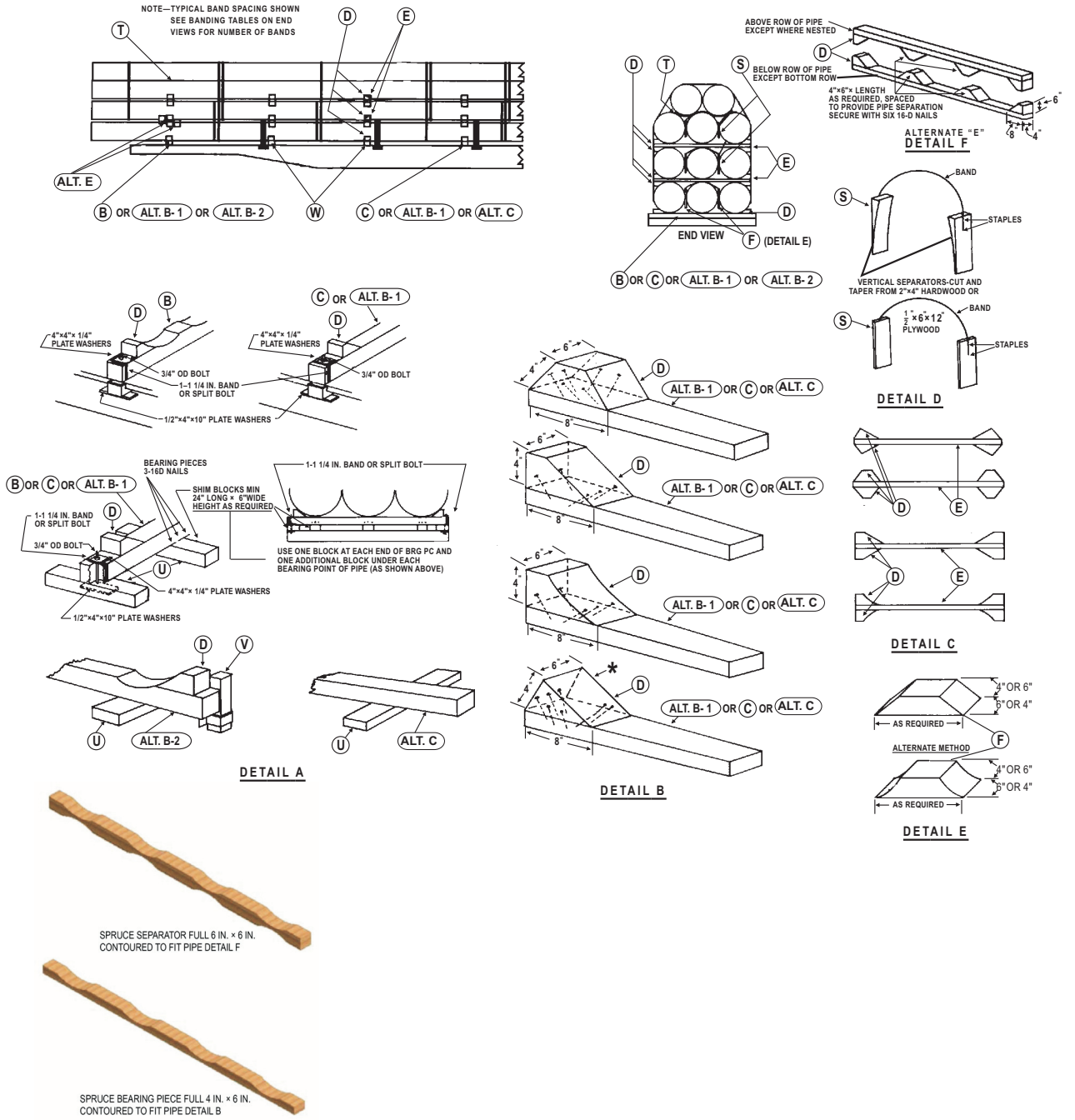
OUTSIDE DIAMETER (S)
NUMBER OF PIECES

NUMBER OF BANDS												
G	H	J	K	L	M	N	O	P	Q	R		

IMPLEMENTED 12/2014

Fig. 265 (Rev. 12/14)
(New 10/73)

PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 72 IN. O.D., 60 FT LONG, SINGLE PILE, DOUBLE-END OVERHANG—FLATCARS



IMPLEMENTED 12/2014

IMPLEMENTED 12/2014

Fig. 265 (Rev. 12/14) (Continued)
(New 10/73)

PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 72 IN. O.D., 60 FT LONG, SINGLE PILE, DOUBLE-END OVERHANG—FLATCARS

Item	No. of Pcs.	Description
A		Brake wheel clearance: see General Rule 2 in Section 1.
B	2 per pile. (Not used with Alternate Item B-1 or Alternate Item B-2.)	End bearing piece: 6 in. × 6 in. hardwood, length equal to width of car. Contour to fit pipe diameter. Increase height as required to provide minimum 4-in. clearance over idler cars. Secure through stake pockets or car floor with 3/4-in.-diameter bolts. Bolts are also to pass through end items U when used. Use a 1/2 in. × 4 in. × 10 in. plate at bottom of stake pocket or 1/2 in. × 4 in. × 18 in. plate under floor and a 1/4 in. × 4 in. × 4 in. plate washer on top of Item B. Where bolts are applied through stake pockets, they must be placed as close as possible to the inside face of the stake pockets (Detail A).
C	Minimum 3 per pile. (Not used with Alternate Item B-1 or Alternate Item C.)	Intermediate bearing piece: 4 in. × 6 in. hardwood, length equal to width of car. Secure with three 3/4-in.-diameter bolts, one at each end and one as close as possible to center line of car. Hardwood, 6 in. × 6 in. or heavier, to be secured with two 3/4-in.-diameter bolts, one at each end of Item C. Bolts are also to pass through end Items U when used. Use a 1/2 in. × 4 in. × 10 in. plate at bottom of stake pocket or 1/2 in. × 4 in. × 18 in. plate under floor and a 1/4 in. × 4 in. × 4 in. plate washer on top of Item B. Where bolts are applied through stake pockets, they must be placed as close as possible to the inside face of the stake pocket (Detail A).
D	2 each Item B. 2 each Item C. 4 each Item E. 2 each Alternate Item B-1. 2 each Alternate Item B-2. 2 each Alternate Item C. 4 each Alternate Item E.	Wood chock blocks: 4 in. × 6 in. × 8 in., cut to fit contour of pipe or wedge-shaped. Locate to contact pipe and nail to Items B, C, E, Alternate B-1, Alternate B-2, Alternate C, and/or Alternate E with five or six 16-D nails (Details A, B, C, and F). Alternate 6 in. × 4 in. × 8 in. wood chock blocks may be used. *Secure with seven 16-D power-driven nails.
E	Minimum of 5 between tiers not nested.	Separator: 2 in. × 6 in. hardwood, length about equal to width of load and sufficient to apply Items D (Detail C). Separator: 6 in. × 6 in., hardwood or spruce, contoured to a maximum of 2 in. top and bottom may be used as an alternate.
F	As required on end Alternate Items B.	Wood intermediate chock blocks: 4 in. × 6 in. or 6 in. × 4 in., cut to fit contour of pipe or wedge-shaped, length as required by pipe diameter. Locate to contact pipe and nail to Alternate Item B with six 16-D nails (Detail E and End View)
G thru R	See banding tables on sketches.	High tension bands: 2 in. × .044 in. All bands passing around bottom of load must be placed close together to allow maximum free space between Items B, C, or Alternate Items B.
G	"	To encircle bottom two tiers.
H	"	To encircle bottom three tiers.
J	"	To encircle bottom four tiers.
K	"	To encircle tiers 2 and 3.
L	"	To encircle tiers 2, 3, and 4.
M	"	To encircle top tier only.
N	"	To encircle top two tiers.
O	"	To encircle top three tiers.
P	"	To encircle top four tiers.
Q	"	To encircle top five tiers.
R	"	To encircle all tiers.
S	As required.	Vertical separators: consisting of material such as plywood, hardwood, or hard rubber that will not easily compress. Use optional (Details D).
T	4 per nested tier.	Protective material: use optional.

Fig. 265 (Rev. 12/14) (Continued)
(New 10/73)

PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 72 IN. O.D., 60 FT LONG, SINGLE PILE, DOUBLE-END OVERHANG—FLATCARS

Item	No. of Pcs.	Description
U	As required.	Shim blocks: minimum 6 in. wide × 24 in. long, height as required. Use one at each end of Item B, C, or Alternate B-1 and one for each row of pipe. Secure end Items U with bolts used to secure Items B, C, or Alternate B-1. Secure intermediate Items U to Items B, C, or Alternate B-1 with six 16-D nails. When used with Alternate B-2 or C, use one for each row of pipe. Nail to car floor with a minimum of four nails with a minimum penetration of 2 in. into car floor (Detail A).
V	4 (Use only when Alternate Item B-2 is used.)	Stub stakes: 4 in. × 5 in. minimum, hardwood. Locate outside of Alternate Items B-2 at both ends of car. Secure to prevent dislodgement (Detail A).
W	4 per pile.	Tie-down assemblies: consisting of a ratchet and polyester woven straps 4 in. wide with 5,335-lb working load limit. Locate near bearing pieces where practical. Place over bottom layer of pipe and anchor to opposite side of car, securing to prevent displacement. Winch taut using a minimum 30-in. bar. Maintain as much clearance from steel bands as possible to avoid damage to straps. Not required for uncoated pipe. Note: This application may be used only on sketches utilizing Item E separators between the bottom and second layers.
Alternate securement items		
Alt B-1	Minimum 5 per pile. (Not used with Alternate Items B-2 and C.)	All bearing pieces: 4 in. × 6 in. hardwood, length equal to width of car. Secure with 3/4-in.-diameter bolts, one at each end and one as close as possible to the center line of car. Hardwood, 6 in. × 6 in. or heavier, to be secured with two 3/4-in. bolts, one at each end of Item B. Bolts are also to pass through end Items U when used and must be applied according to Item B (Detail A).
Alt B-1A	Minimum 7 per pile. (Not used with Alternate Items B-2 and C.)	All bearing pieces: 4 in. × 6 in., spruce, contoured 2 in. deep to fit radius of pipe, length equal to width of car. Secure with ten 7-in. nails or with three 3/4-in.-diameter bolts, one at each end and one as close as possible to centerline of car. Item D chocks optional (Detail A).
Alt B-2	2 per pile. (Use with Alternate Item C.)	End bearing piece: 6 in. × 6 in. hardwood, length equal to width of car, contoured to fit pipe diameter. Secure to each Item U with minimum of two 8-in. spikes (Detail A). May be substituted with 2 in. × 6 in. hardwood, noncontoured, with Item D chock blocks applied on each side of each piece of pipe. Secure each bearing piece to car floor with eight 40-D nails.
Alt C	Minimum 3 per pile. (Use with Alternate Item B-2.)	Intermediate bearing piece: 4 in. × 6 in. hardwood, length equal to width of car. Secure to each Item U with two 8-in. spikes (Detail A). Hardwood intermediate bearing pieces, 2 in. × 6 in., may be used when noncontoured end bearing pieces are used for Alternate B-2.
Alt E	Minimum of 3 pair per tier not nested.	Separator: a pair is two pieces as shown in Detail F. Place at three locations throughout length of load, one pair adjacent to each end Item E and one pair adjacent to Item E nearest center of load. Use optional.

IMPLEMENTED 12/2014

Fig. 265 (Rev. 12/14) (Continued)
(New 10/73)

PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 72 IN. O.D., 60 FT LONG, SINGLE PILE, DOUBLE-END OVERHANG—FLATCARS

Notes and Additional Requirements:

1. This figure is designed and intended for nominal pipe lengths of 60 ft (±15 ft). Random-length variations are acceptable provided all other criteria of this figure are met (see Note 2).
2. Longer length pipe must be located on the bottom layer of the load. Place pipe shorter than 45 ft on the top two tiers unless complying with Note 14. Length of pipe to be no less than 20 ft.
3. Bands are sufficient for loads up to 140,000 lb. Add one band of each designation on load sketch used, for each additional 20,000 lb or less of load weight.
4. When short pipe lengths are loaded on the top two tiers (see Note 2), place two extra bands that encircle the top 2/3 of pile to include the shortest pipe length. A short length of pipe is defined as 15 ft less than the longest pipe.
5. Bearing pieces and separators, as shown, are sufficient for loads up to 140,000 lb. Add one additional bearing piece and separator for each additional 20,000 lb or less of load weight.
6. Bearing pieces may be extended beyond width of car deck to accommodate the application of chock blocks. When this application is necessary, extended portion must be supported or the bearing piece size increased to 4 in. × 6 in.
7. When pipe is coated and/or wrapped, adequate padding or protection must be used to prevent chafing at bearing points. (Shipper's discretion to use as optional requirement.)
8. When obtaining clearance from the rail carriers for the movements of these loads, overhang length measurements must be reported to be 4 ft longer than the actual overhang measurements to allow for clearance when the load shifts.
9. More pieces per tier (width of load) may be loaded if the same end configuration and number of bands required by all sketches are applied as indicated.
10. Sketch Nos. 23, 34, and 39 must be prepared with contoured chocks or bearing pieces.
11. Center line of pipe must be within inside edge of car side sills.
12. All banding should be equally spaced throughout the entire pile.
13. Maximum two pipe lengths can be loaded end to end (double-ended) on the top two tiers. The distance between the pipe must be a minimum of 12 in. and a maximum of 24 in. Pipe that is double-ended can be no longer than the pieces directly beneath it.
14. Maximum two pipe lengths can be loaded end to end (double-ended) on the bottom layer and must be equal to the length of pipes above it. The distance between the pipe must be a minimum of 12 in. and a maximum of 24 in. Outside pipe must be a single piece and be the full length of the load.

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

IMPLEMENTED 12/2014

Fig. 265 (Rev. 12/14) (Continued)
(New 10/73)

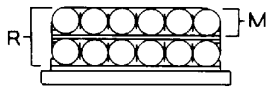
PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 72 IN. O.D., 60 FT LONG, SINGLE PILE, DOUBLE-END OVERHANG—FLATCARS

Sketch Omitted Intentionally

OUSIDE DIAMETER (S)
NUMBER OF PIECES
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R

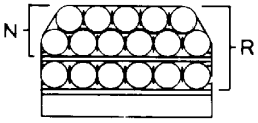
SKETCH NO. 1



OUTSIDE DIAMETER(S) 16"–20"
NUMBER OF PIECES 12
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
					8					8

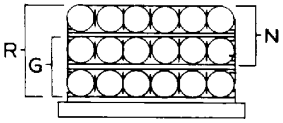
SKETCH NO. 2



OUTSIDE DIAMETER (S) 16"–20"
NUMBER OF PIECES 17
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
						8				8

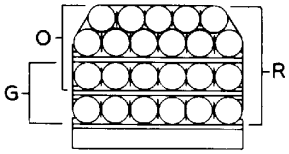
SKETCH NO. 3



OUTSIDE DIAMETER(S) 16"–20"
NUMBER OF PIECES 18
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
4						6				6

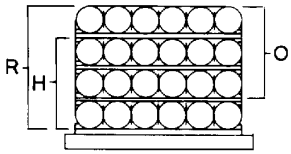
SKETCH NO. 4



OUTSIDE DIAMETER (S) 16"–20"
NUMBER OF PIECES 23
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
5							5			6

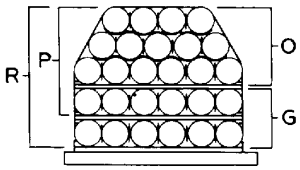
SKETCH NO. 5



OUTSIDE DIAMETER (S) 16"–20"
NUMBER OF PIECES 24
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
	4						6			6

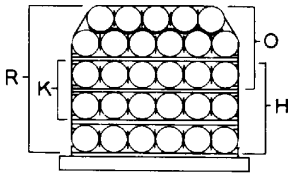
SKETCH NO. 6



OUTSIDE DIAMETER (S) 16"–20"
NUMBER OF PIECES 27
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
4							4	4		6

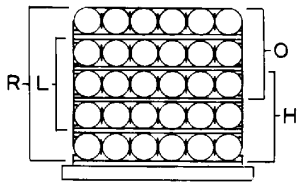
SKETCH NO. 7



OUTSIDE DIAMETER (S) 16"–20"
NUMBER OF PIECES 29
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
	4		4				4			6

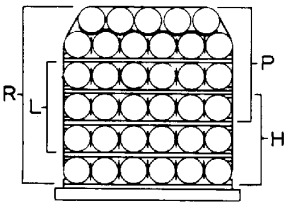
SKETCH NO. 8



OUTSIDE DIAMETER (S) 16"–20"
NUMBER OF PIECES 30
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
	4			4			4			6

SKETCH NO. 9



OUTSIDE DIAMETER (S) 16"–20"
NUMBER OF PIECES 35
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
	4			4				4		6

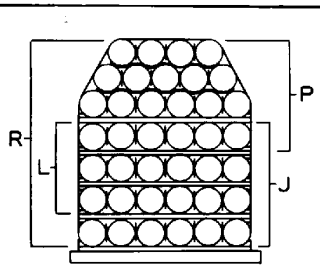
SKETCH NO. 10

IMPLEMENTED 12/2014

IMPLEMENTED 12/2014

Fig. 265 (Rev. 12/14) (Continued)
(New 10/73)

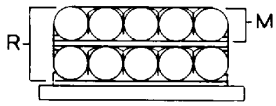
PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 72 IN. O.D., 60 FT LONG, SINGLE PILE, DOUBLE-END OVERHANG—FLATCARS



OUSIDE DIAMETER (S) 16"–20"
NUMBER OF PIECES 39

G	H	J	K	L	M	N	O	P	Q	R
		5		5				5		6

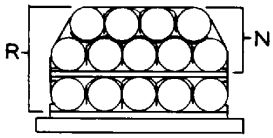
SKETCH NO. 11



OUTSIDE DIAMETER(S) 16"–24"
NUMBER OF PIECES 10

G	H	J	K	L	M	N	O	P	Q	R
					8					8

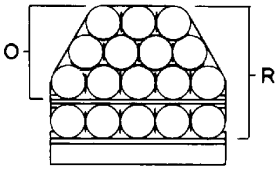
SKETCH NO. 12



OUTSIDE DIAMETER(S) 16"–24"
NUMBER OF PIECES 14

G	H	J	K	L	M	N	O	P	Q	R
						8				8

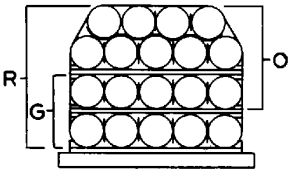
SKETCH NO. 13



OUTSIDE DIAMETER(S) 16"–24"
NUMBER OF PIECES 17

G	H	J	K	L	M	N	O	P	Q	R
							7			7

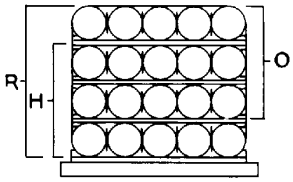
SKETCH NO. 14



OUTSIDE DIAMETER(S) 16"–24"
NUMBER OF PIECES 19

G	H	J	K	L	M	N	O	P	Q	R
4							6			6

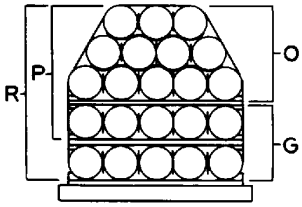
SKETCH NO. 15



OUTSIDE DIAMETER(S) 16"–24"
NUMBER OF PIECES 20

G	H	J	K	L	M	N	O	P	Q	R
	4						6			6

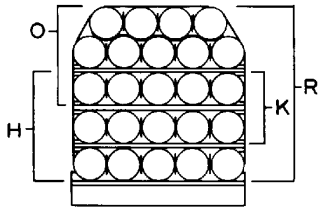
SKETCH NO. 16



OUTSIDE DIAMETER(S) 16"–24"
NUMBER OF PIECES 22

G	H	J	K	L	M	N	O	P	Q	R
4							4	4		6

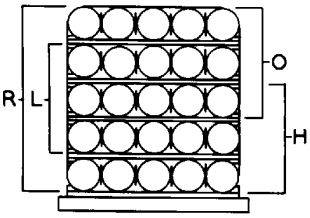
SKETCH NO. 17



OUTSIDE DIAMETER(S) 16"–24"
NUMBER OF PIECES 24

G	H	J	K	L	M	N	O	P	Q	R
	4		4				4			6

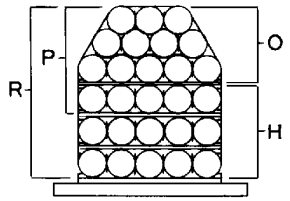
SKETCH NO. 18



OUTSIDE DIAMETER(S) 16"–24"
NUMBER OF PIECES 25

G	H	J	K	L	M	N	O	P	Q	R
	4			4			4			6

SKETCH NO. 19



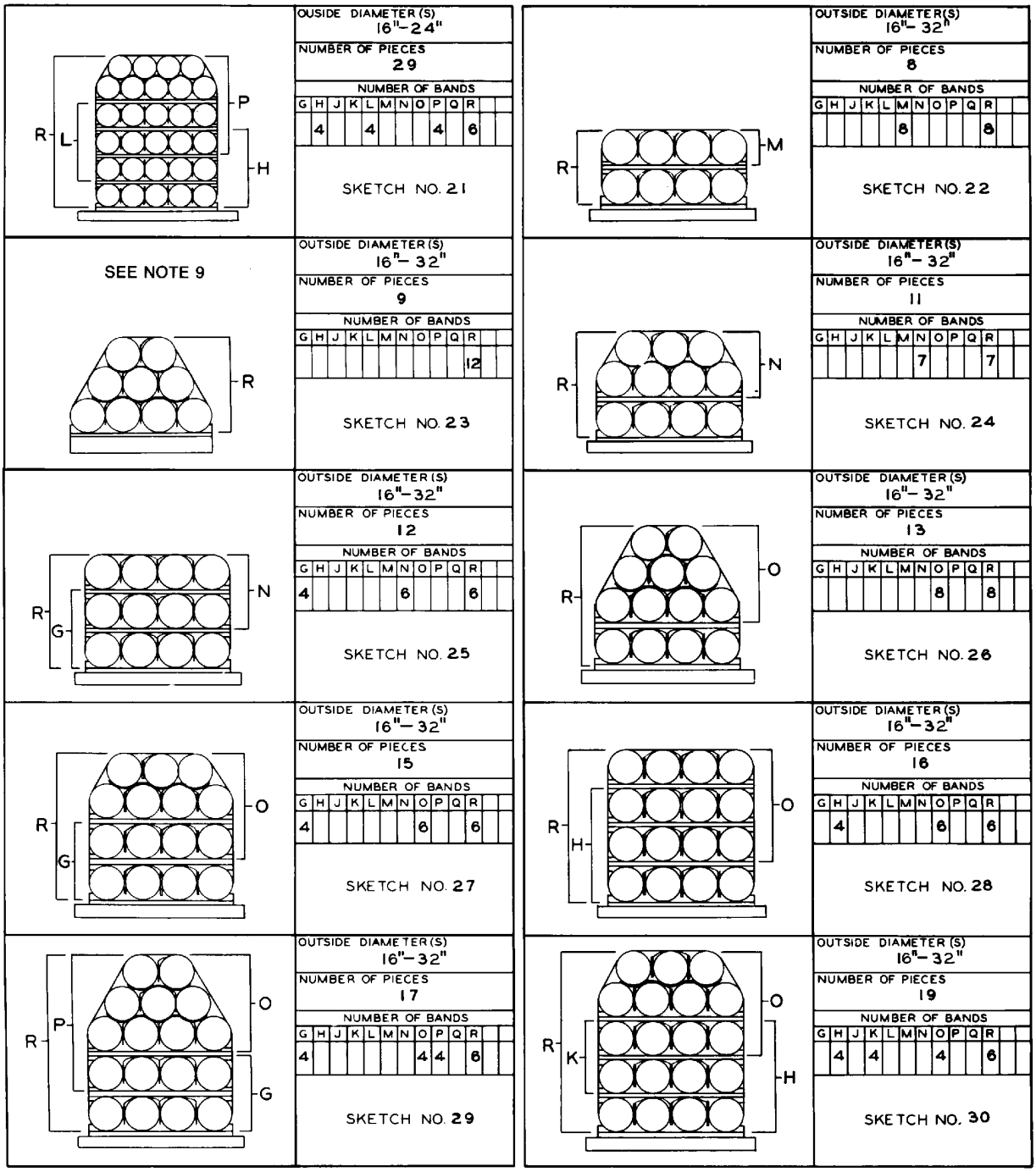
OUTSIDE DIAMETER(S) 16"–24"
NUMBER OF PIECES 27

G	H	J	K	L	M	N	O	P	Q	R
	4						4	4		6

SKETCH NO. 20

Fig. 265 (Rev. 12/14) (Continued)
(New 10/73)

PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 72 IN. O.D., 60 FT LONG, SINGLE PILE, DOUBLE-END OVERHANG—FLATCARS



IMPLEMENTED 12/2014

IMPLEMENTED 12/2014

Fig. 265 (Rev. 12/14) (Concluded)
(New 10/73)

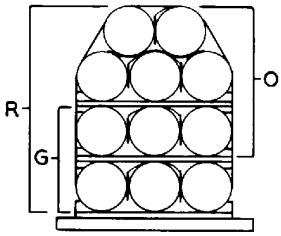
PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 72 IN. O.D., 60 FT LONG, SINGLE PILE, DOUBLE-END OVERHANG—FLATCARS

Sketch Omitted Intentionally

OUSIDE DIAMETER (S)
NUMBER OF PIECES
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R

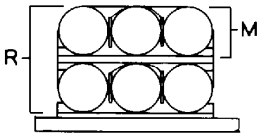
SKETCH NO. 31



OUTSIDE DIAMETER(S) 16"–42"
NUMBER OF PIECES 11
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
4							6			6

SKETCH NO. 32

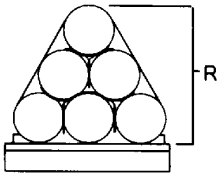


OUTSIDE DIAMETER(S) 16"–48"
NUMBER OF PIECES 6
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
					8					8

SKETCH NO. 33

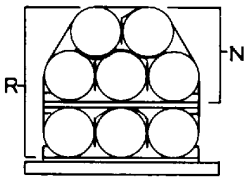
SEE NOTE 9



OUTSIDE DIAMETER(S) 16"–48"
NUMBER OF PIECES 6
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
										10

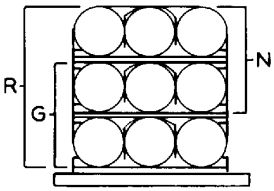
SKETCH NO. 34



OUTSIDE DIAMETER(S) 16"–48"
NUMBER OF PIECES 8
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
						8				8

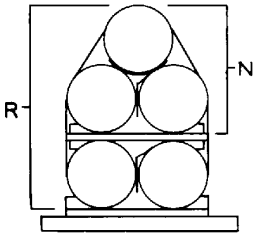
SKETCH NO. 35



OUTSIDE DIAMETER(S) 16"–48"
NUMBER OF PIECES 9
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
4							6			6

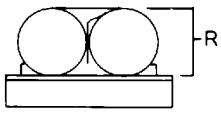
SKETCH NO. 36



OUTSIDE DIAMETER(S) 16"–54"
NUMBER OF PIECES 5
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
						7				7

SKETCH NO. 37

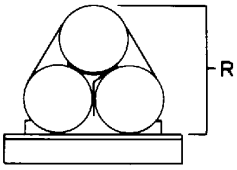


OUTSIDE DIAMETER(S) 16"–72"
NUMBER OF PIECES 2
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
										6

SKETCH NO. 38

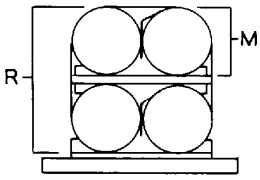
SEE NOTE 9



OUTSIDE DIAMETER(S) 16"–72"
NUMBER OF PIECES 3
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
										8

SKETCH NO. 39



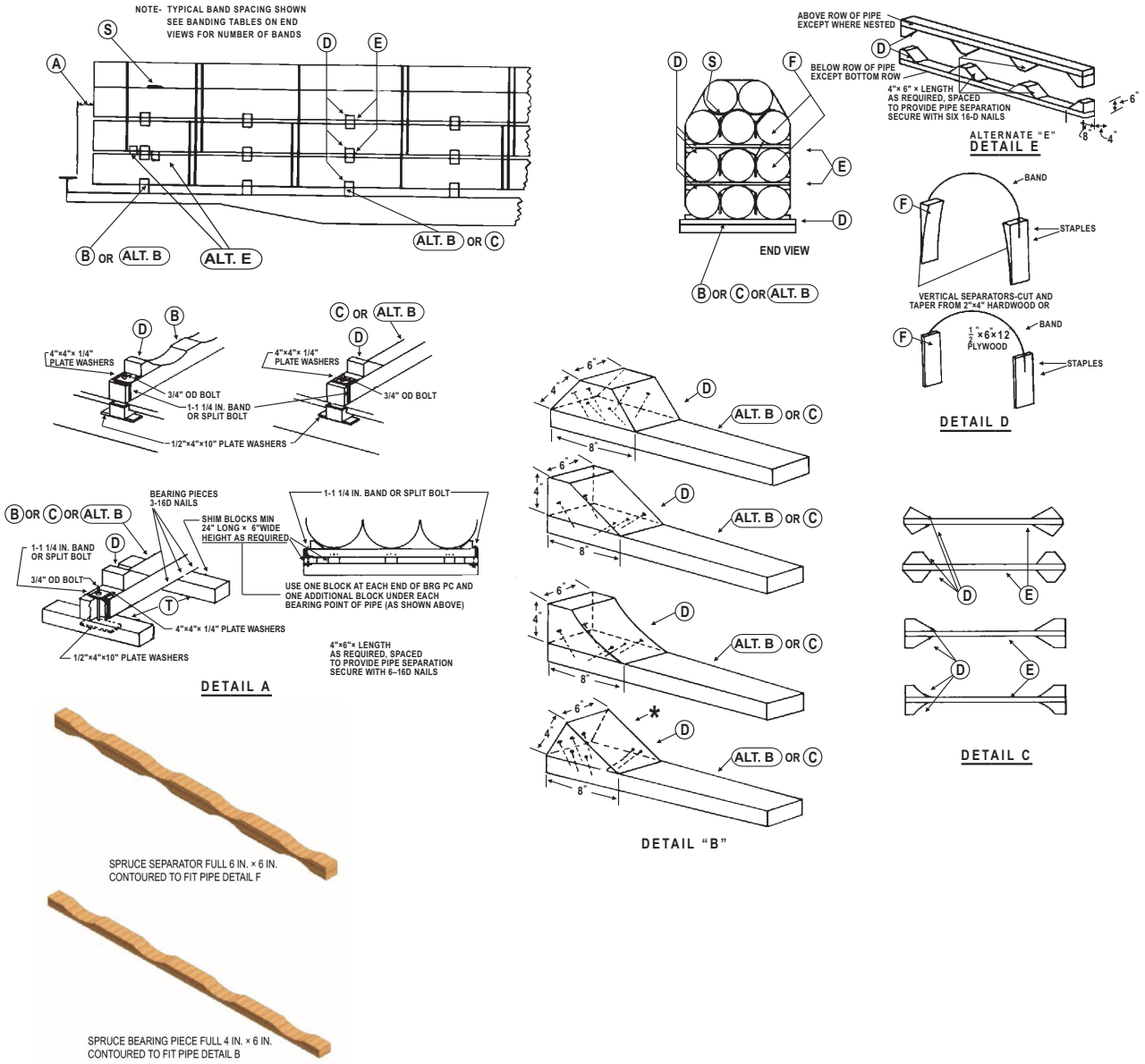
OUTSIDE DIAMETER(S) 16"–72"
NUMBER OF PIECES 4
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
					7					7

SKETCH NO. 40

Fig. 267 (Rev. 12/14)
(New 10/73)

PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 72 IN. O.D., 60 FT LONG, SINGLE PILE—FLATCARS, 85 FT TO 89 FT, AND FLATCARS, WITH END BULKHEADS OF STANDARD HEIGHT



IMPLEMENTED 12/2014

IMPLEMENTED 12/2014

Fig. 267 (Rev. 12/14) (Continued)
(New 10/73)

PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 72 IN. O.D., 60 FT LONG, SINGLE PILE—FLATCARS, 85 FT TO 89 FT, AND FLATCARS, WITH END BULKHEADS OF STANDARD HEIGHT

Item	No. of Pcs.	Description
A		Brake wheel clearance: see General Rule 2 in Section 1.
B	2 per pile. (Not used with Alternate Item B-1 or Alternate Item B-2.)	End bearing pieces: 6 in. × 6 in. hardwood, length equal to width of car. Contour to fit pipe diameter. Secure with two 3/4-in.-diameter bolts. Bolts are also to pass through end Items T when used. Use a 1/2 in. × 4 in. × 10 in. plate on bottom of stake pocket or 1/ 2 in. × 4 in. × 18 in. plate under floor and a 1/4 in. × 4 in. × 4 in. washer on top of Item B. Where bolts are applied through stake pockets, they must be placed as close as possible to the inside face of the stake pockets (Detail A).
C	Minimum 3 per pile. (Not used with Alternate Item B-1 or Alternate Item C.)	Intermediate bearing pieces: 4 in. × 6 in. hardwood, length equal to width of car. Secure with three 3/4-in.-diameter bolts, one at each end and one as close as possible to center line of car. Hardwood, 6 in. × 6 in. or heavier, to be secured with two 3/4-in.-diameter bolts, one at each end. Bolts are also to pass through end Items T when used. Plate washers are to be used in accordance with Item B. Where bolts are applied through stake pockets, they must be placed as close as possible to the inside face of the stake pocket (Detail A).
D	2 each Item B. 2 each Item C. 2 each Alternate Items B, B-2, and C. 4 each Alternate Item E.	Wood chock blocks: 4 in. × 6 in. × 8 in., cut to fit contour of pipe or wedge-shaped. Locate to contact pipe and nail to Items B, C, E, Alternate B, and/or Alternate E with five or six 16-D nails (Details B, C, and E). Alternate 6 in. × 4 in. × 8 in. wood chock blocks may be used. *Secure with seven 16-D power-driven nails.
E	Minimum of 5 between tiers not nested.	Separators: 2 in. × 6 in. hardwood, length about equal to width of load and sufficient to apply Items D (Detail C). Separator: 6 in. × 6 in., hardwood or spruce, contoured to a maximum of 2 in. top and bottom may be used as an alternate.
F	As required.	Vertical separators: consisting of material such as plywood, hardwood, or hard rubber that will not easily compress. Use optional (Detail D).
G thru R	See banding tables on sketches.	High tension bands: 2 in. × .044 in. All bands passing around bottom of load must be placed as close together as possible to allow maximum free space between Items B, C, or Alternate Items B.
G	"	To encircle bottom two tiers
H	"	To encircle bottom three tiers.
J	"	To encircle bottom four tiers.
K	"	To encircle tiers 2 and 3.
L	"	To encircle tiers 2, 3, and 4.
M	"	To encircle top tier only.
N	"	To encircle top two tiers.
O	"	To encircle top three tiers.
P	"	To encircle top four tiers.
Q	"	To encircle top five tiers.
R	"	To encircle all tiers.
S	4 per nested tier.	Protective material: use optional.
T	As required.	Shim blocks: minimum 6 in. wide, 24 in. long, height as required. Use one at each end of Items B, C, or Alternate Item B and one for each row of pipe. Secure end Item T with bolts used to secure Items B, C, or Alternate Item B. Secure intermediate Items T with six 16-D nails (Detail A).

Fig. 267 (Rev. 12/14) (Continued)
(New 10/73)

PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 72 IN. O.D., 60 FT LONG, SINGLE PILE—FLATCARS, 85 FT TO 89 FT, AND FLATCARS, WITH END BULKHEADS OF STANDARD HEIGHT

Item	No. of Pcs.	Description
Alternate securement items		
Alt B-1	Minimum 5 per pile. (Not used with Alternate Items B-2 and C.)	All bearing pieces: 4 in. × 6 in. hardwood, length equal to width of car. Secure with three 3/4-in.-diameter bolts, one at each end and one as close as possible to the center line of car. Hardwood, 6 in. × 6 in. or heavier, to be secured with two 3/4-in. bolts, one at each end. Bolts are also to pass through end Items T when used and must be applied according to Item B (Detail A).
Alt B-1A	Minimum 7 per pile. (Not used with Alternate Items B-2 and C.)	All bearing pieces: 4 in. × 6 in., spruce, contoured 2 in. deep to fit radius of pipe, length equal to width of car. Secure with ten 7-in. nails or with three 3/4-in.-diameter bolts, one at each end and one as close as possible to centerline of car. Item D chocks optional (Detail A).
Alt B-2	2 per pile. (Use with Alternate Item C.)	End bearing pieces: minimum 4 in. × 6 in. hardwood, length equal to width of car. Contour to fit pipe diameter and secure to car floor with ten 60-D nails. May be substituted with 2 in. × 6 in. hardwood, noncontoured, with Item D chock blocks applied on each side of each piece of pipe. Secure each bearing piece to car floor with eight 40-D nails.
Alt C	Minimum 3 per pile. (Use with Alternate Item B-2.)	Intermediate bearing pieces: minimum 2 in. × 6 in. hardwood, length equal to width of car. Secure each to car floor with six 20-D nails.
Alt E	Minimum 3 pair per tier not nested.	Separators: a pair is two pieces as shown in Detail E. Place at three locations throughout length of load, one pair adjacent to each end Item E and one pair adjacent to Item E nearest center of load. Use optional.

Notes and Additional Requirements:

1. This figure is designed and intended for nominal pipe lengths of 60 ft (±15 ft). Random-length variations are acceptable provided all other criteria of this figure are met (see Note 2).
2. Longer length pipe must be located on the bottom layer of the load. Place pipe shorter than 45 ft on the top two tiers, unless complying with Note 13. Length of pipe to be no less than 20 ft.
3. Bands are sufficient for loads up to 140,000 lb. Add one band of each designation, on load sketch used, for each additional 20,000 lb or less of load weight.
4. When short pipe lengths are loaded on the top two tiers (see Note 2), place two extra bands that encircle the top 2/3 of pile to include the shortest pipe length. A short length of pipe is defined as 15 ft less than the longest pipe.
5. Bearing pieces and separators, as shown, are sufficient for loads up to 140,000 lb. Add one additional bearing piece and separator for each additional 20,000 lb or less of load weight.
6. Bearing pieces may be extended beyond width of car deck to accommodate the application of Item D chock blocks. When this application is necessary, extended portion must be supported or the bearing piece size increased to 4 in. × 6 in.
7. Pipe must be centrally located on car. Center line of pipe must be within inside edge of car side sills.
8. When pipe is coated and/or wrapped, adequate padding or protection must be used to prevent chafing at bearing points. (Shipper's discretion to use as optional requirement.)
9. More pieces per tier (width of load) may be loaded if the same end configuration and number of bands required by all sketches are applied as indicated.
10. Sketch Nos. 13, 22, and 29 must be prepared with contoured chocks or bearing pieces.
11. All banding should be equally spaced throughout the entire pile.
12. Maximum two pipe lengths can be loaded end to end (double-ended) on the top two tiers. The distance between the pipe must be a minimum of 12 in. and a maximum of 24 in. Pipe that is double-ended can be no longer than the pieces directly beneath it.
13. Maximum two pipe lengths can be loaded end to end (double-ended) on the bottom layer and must be equal to the length of pipes above it. The distance between the pipe must be a minimum of 12 in. and a maximum of 24 in. Outside pipe must be a single piece and be the full length of the load.

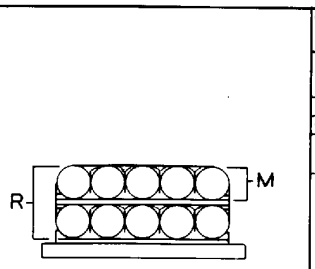
Reference the General Rules in Section No. 1 of the *Open Top Loading Rules Manual* for additional details.

IMPLEMENTED 12/2014

IMPLEMENTED 12/2014

Fig. 267 (Rev. 12/14) (Continued)
(New 10/73)

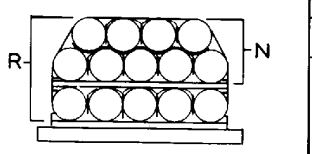
PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 72 IN. O.D., 60 FT LONG, SINGLE PILE—FLATCARS, 85 FT TO 89 FT, AND FLATCARS, WITH END BULKHEADS OF STANDARD HEIGHT



OUTSIDE DIAMETER (S) 16"–24"
NUMBER OF PIECES 10

G	H	J	K	L	M	N	O	P	Q	R
					7					7

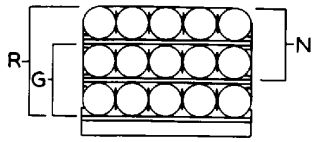
SKETCH NO. 1



OUTSIDE DIAMETER (S) 16"–24"
NUMBER OF PIECES 14

G	H	J	K	L	M	N	O	P	Q	R
							7			7

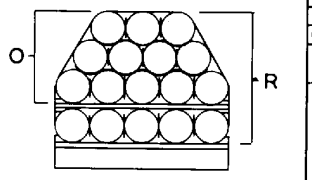
SKETCH NO. 2



OUTSIDE DIAMETER (S) 16"–24"
NUMBER OF PIECES 15

G	H	J	K	L	M	N	O	P	Q	R
5						5				6

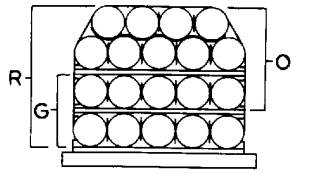
SKETCH NO. 3



OUTSIDE DIAMETER (S) 16"–24"
NUMBER OF PIECES 17

G	H	J	K	L	M	N	O	P	Q	R
							7			7

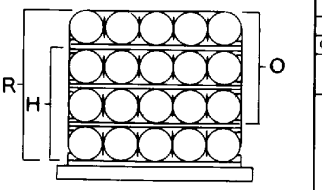
SKETCH NO. 4



OUTSIDE DIAMETER (S) 16"–24"
NUMBER OF PIECES 19

G	H	J	K	L	M	N	O	P	Q	R
5							5			6

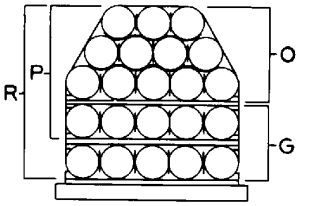
SKETCH NO. 5



OUTSIDE DIAMETER (S) 16"–24"
NUMBER OF PIECES 20

G	H	J	K	L	M	N	O	P	Q	R
	4						6			6

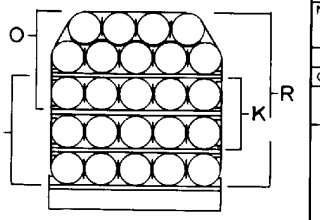
SKETCH NO. 6



OUTSIDE DIAMETER (S) 16"–24"
NUMBER OF PIECES 22

G	H	J	K	L	M	N	O	P	Q	R
4							4	4		6

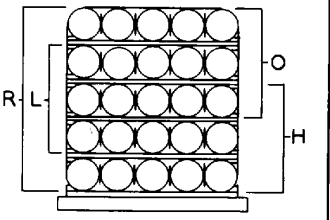
SKETCH NO. 7



OUTSIDE DIAMETER (S) 16"–24"
NUMBER OF PIECES 24

G	H	J	K	L	M	N	O	P	Q	R
	4		4				4			6

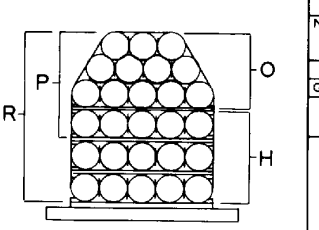
SKETCH NO. 8



OUTSIDE DIAMETER (S) 16"–24"
NUMBER OF PIECES 25

G	H	J	K	L	M	N	O	P	Q	R
	4			4			4			6

SKETCH NO. 9



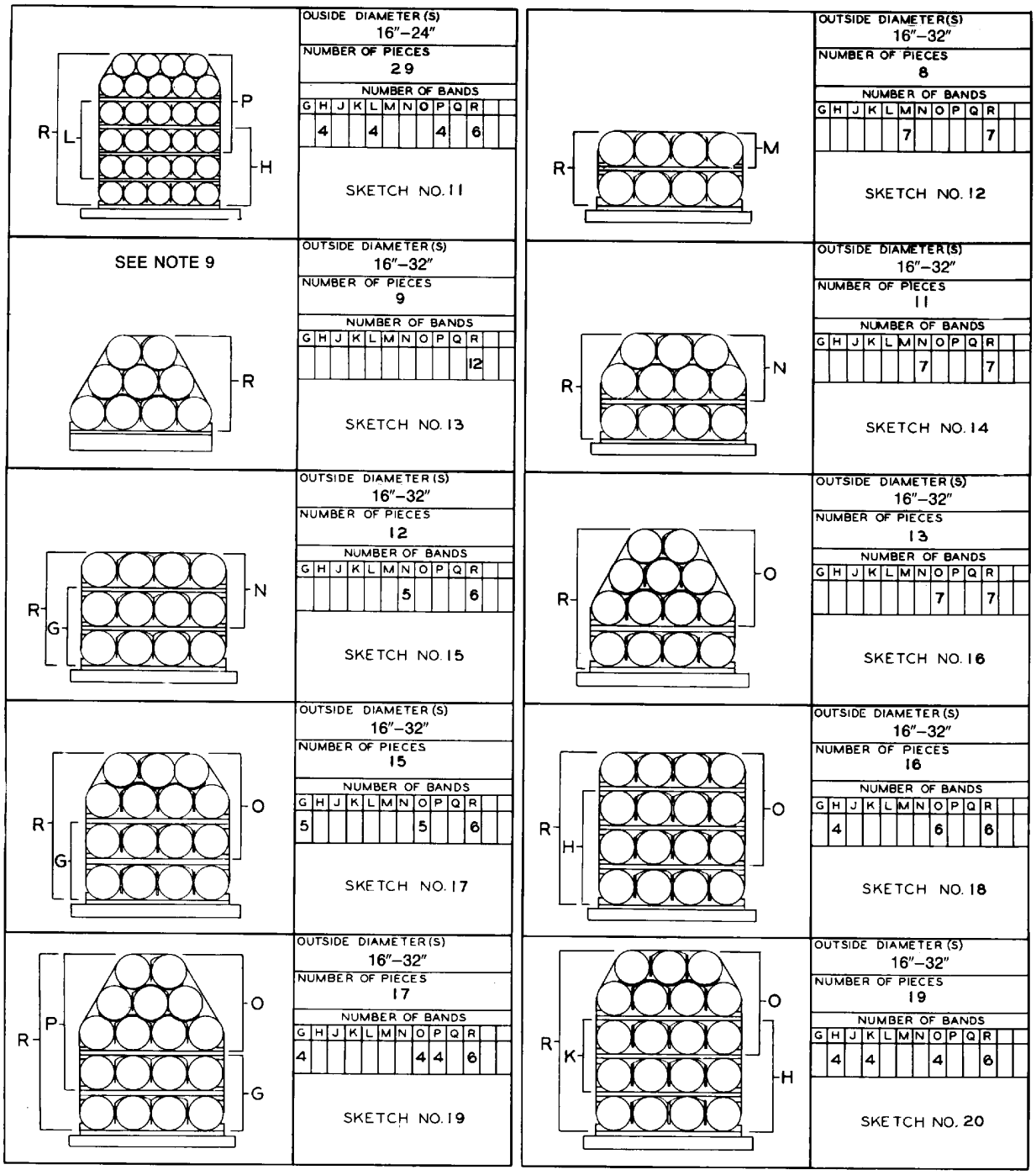
OUTSIDE DIAMETER (S) 16"–24"
NUMBER OF PIECES 27

G	H	J	K	L	M	N	O	P	Q	R
	4						4	4		6

SKETCH NO. 10

Fig. 267 (Rev. 12/14) (Continued)
(New 10/73)

PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 72 IN. O.D., 60 FT LONG, SINGLE PILE—FLATCARS, 85 FT TO 89 FT, AND FLATCARS, WITH END BULKHEADS OF STANDARD HEIGHT

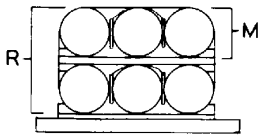


IMPLEMENTED 12/2014

IMPLEMENTED 12/2014

Fig. 267 (Rev. 12/14) (Concluded)
(New 10/73)

PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 72 IN. O.D., 60 FT LONG, SINGLE PILE—FLATCARS, 85 FT TO 89 FT, AND FLATCARS, WITH END BULKHEADS OF STANDARD HEIGHT

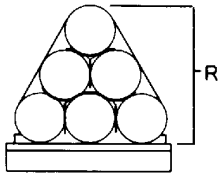


OUSIDE DIAMETER (S) 16"–48"
NUMBER OF PIECES 6
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
					7					7

SKETCH NO. 21

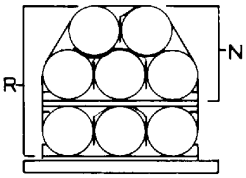
SEE NOTE 9



OUTSIDE DIAMETER(S) 16"–48"
NUMBER OF PIECES 6
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
										12

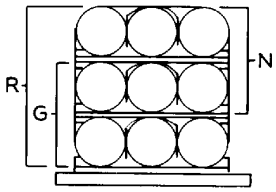
SKETCH NO. 22



OUTSIDE DIAMETER(S) 16"–48"
NUMBER OF PIECES 8
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
						7				7

SKETCH NO. 23



OUTSIDE DIAMETER(S) 16"–48"
NUMBER OF PIECES 9
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
5						5				6

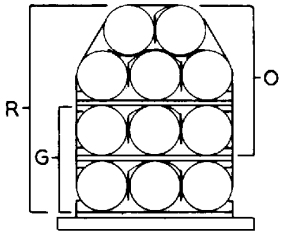
SKETCH NO. 24

Sketch Omitted Intentionally

OUTSIDE DIAMETER (S)
NUMBER OF PIECES
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R

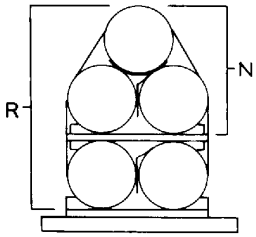
SKETCH NO. 25



OUTSIDE DIAMETER (S) 16"–42"
NUMBER OF PIECES 11
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
5							5			6

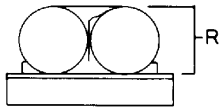
SKETCH NO. 26



OUTSIDE DIAMETER (S) 16"–54"
NUMBER OF PIECES 5
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
						7				7

SKETCH NO. 27

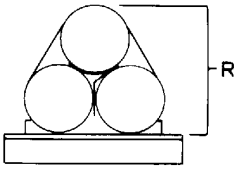


OUTSIDE DIAMETER (S) 16"–72"
NUMBER OF PIECES 2
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
										6

SKETCH NO. 28

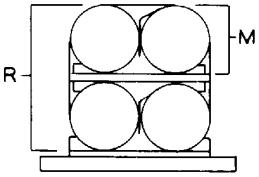
SEE NOTE 9



OUTSIDE DIAMETER (S) 16"–72"
NUMBER OF PIECES 3
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
										8

SKETCH NO. 29



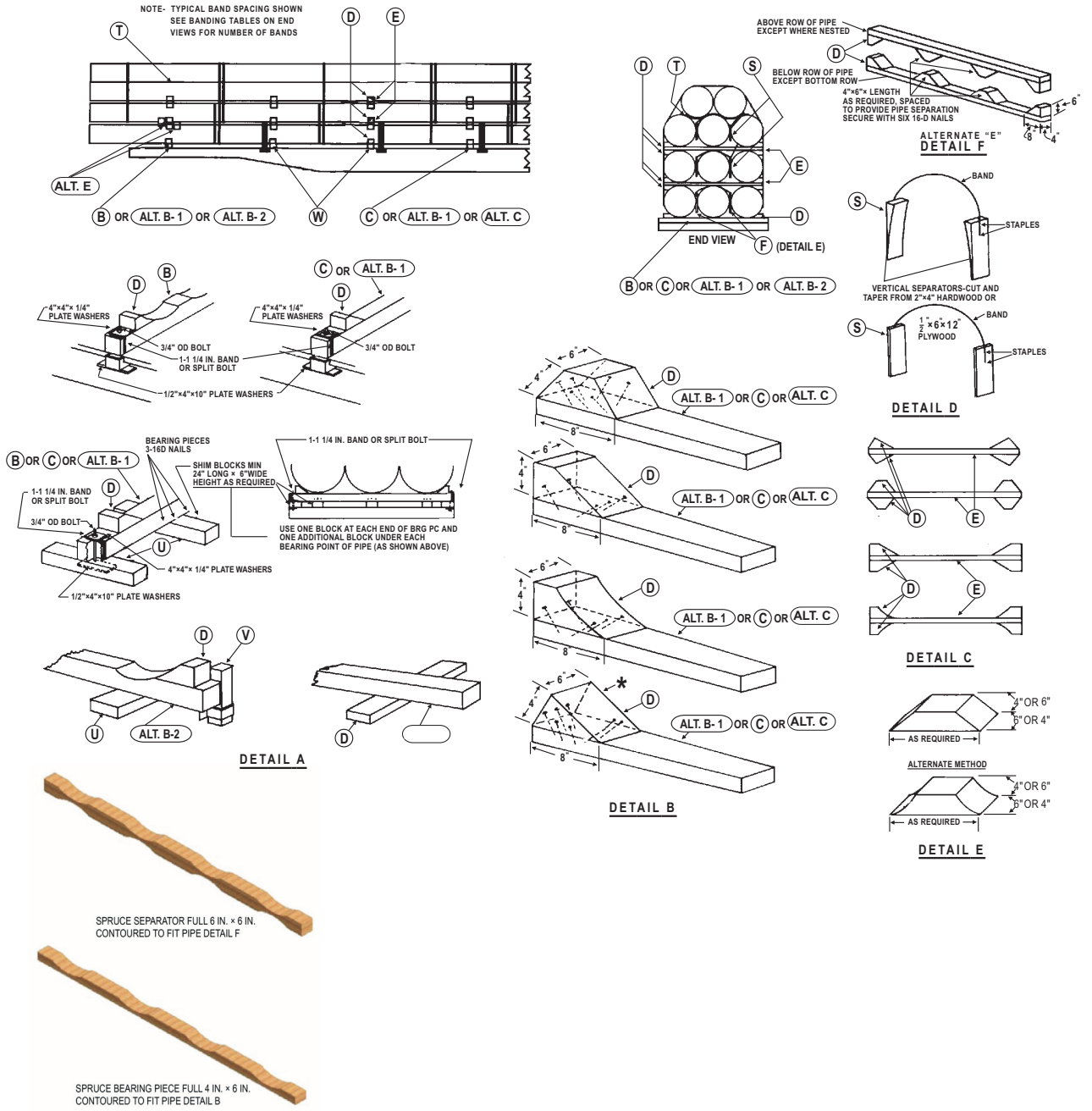
OUTSIDE DIAMETER (S) 16"–72"
NUMBER OF PIECES 4
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
					7					7

SKETCH NO. 30

Fig. 280 (Rev. 12/14)
(New 10/73)

PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 72 IN. O.D., 80 FT LONG, SINGLE PILE, DOUBLE-END OVERHANG—FLATCARS



IMPLEMENTED 12/2014

IMPLEMENTED 12/2014

Fig. 280 (Rev. 12/14) (Continued)
(New 10/73)

PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 72 IN. O.D., 80 FT LONG, SINGLE PILE, DOUBLE-END OVERHANG—FLATCARS

Item	No. of Pcs.	Description
A		Brake wheel clearance: see General Rule 2 in Section 1.
B	2 per pile. (Not used with Alternate Item B-1 or Alternate Item B-2.)	End bearing piece: 6 in. × 6 in. hardwood, length equal to width of car. Contour to fit pipe diameter. Increase height as required to provide minimum 4-in. clearance over idler cars. Secure through stake pockets or car floor with 3/4-in.-diameter bolts. Bolts are also to pass through end Items U when used. Use a 1/2 in. × 4 in. × 10 in. plate at bottom of stake pocket or 1/2 in × 4 in. × 18 in. plate under floor and a 1/4 in. × 4 in. × 4 in. plate washer on top of Item B. Where bolts are applied through stake pockets, they must be placed as close as possible to the inside face of the stake pockets (Detail A).
C	Minimum 3 per pile. (Not used with Alternate Item B-1 or Alternate Item C.)	Intermediate bearing piece. 4 in. × 6 in. hardwood, length equal to width of car. Secure with three 3/4-in.-diameter bolts, one at each end and one as close as possible to center line of car. Hardwood, 6 in. × 6 in. or heavier, to be secured with two 3/4-in.-diameter bolts, one at each end of Item C. Bolts are also to pass through end Items U when used. Use a 1/2 in. × 4 in. × 10 in. plate at bottom of stake pocket or 1/2 in. × 4 in. × 18 in. plate under floor and a 1/4 in. × 4 in. × 4 in. plate washer on top of Item B. Where bolts are applied through stake pockets, they must be placed as close as possible to the inside face of the stake pocket (Detail A).
D	2 each Item B. 2 each Item C 2 each Alternate Item B-1. 2 each Alternate Item B-2. 2 each Alternate Item C. 4 each Alternate Item E.	Wood chock blocks: 4 in. × 6 in. × 8 in., cut to fit contour of pipe or wedge-shaped. Locate to contact pipe and nail to Items B, C, E, Alternate B-1, Alternate B-2, Alternate C, and/or Alternate E with five or six 16-D nails (Details A, B, C, and F). Alternate 6 in. × 4 in. × 8 in. wood chock blocks may be used. *Secure with seven 16-D power-driven nails.
E	Minimum of 7 between tiers not nested.	Separator: 2 in. × 6 in. hardwood, length about equal to width of load and sufficient to apply Items D (Detail C). Separator: 6 in. × 6 in., hardwood or spruce, contoured to a maximum of 2 in. top and bottom may be used as an alternate.
F	As required on end Alternate Item B and 4 outer Items E, each end of car, between 1st and 2nd tiers that are not nested.	Wood intermediate chock blocks: 4 in. × 6 in. or 6 in. × 4 in., cut to fit contour of pipe or wedge-shaped, length as required by pipe diameter. Locate to contact pipe and nail to Alternate Item B with six 16-D nails (Detail E and End View)
G thru R	See banding tables on sketches.	High tension bands: 2 in. × .044 in. All bands passing around bottom of load must be placed close together to allow maximum free space between Items B, C, or Alternate Items B.
G	"	To encircle bottom two tiers.
H	"	To encircle bottom three tiers.
J	"	To encircle bottom four tiers.
K	"	To encircle tiers 2 and 3.
L	"	To encircle tiers 2, 3, and 4.
M	"	To encircle top tier only.
N	"	To encircle top two tiers.
O	"	To encircle top three tiers.
P	"	To encircle top four tiers.
Q	"	To encircle top five tiers.
R	"	To encircle all tiers.
S	As required.	Vertical separators: consisting of material such as plywood, hardwood, or hard rubber that will not easily compress. Use optional (Detail D).

Fig. 280 (Rev. 12/14) (Continued)
(New 10/73)

PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 72 IN. O.D., 80 FT LONG, SINGLE PILE, DOUBLE-END OVERHANG—FLATCARS

Item	No. of Pcs.	Description
T	4 per nested tier.	Protective material: use optional.
U	As required.	Shim blocks: minimum 6 in. wide × 24 in. long, height as required. Use one at each end of Item B, C, or Alternate B-1 and one for each row of pipe. Secure end Items U with bolts used to secure Items B, C, or Alternate B-1. Secure intermediate Items U to Items B, C, or Alternate B-1 with six 16-D nails. When used with Alternate B-2 or Alternate C, use one for each row of pipe. Nail to car floor with a minimum of four nails with a minimum penetration of 2 in. into car floor (Detail A).
V	4. (Use only when Alternate Item B-2 is used.)	Stub stakes: 4 in. × 5 in. minimum, hardwood. Locate outside of Alternate Items B-2 at both ends of car. Secure to prevent dislodgement (Detail A).
W	6 per pile.	Tie-down assemblies: consisting of a ratchet and polyester woven straps 4 in. wide with 5,335-lb working load limit. Locate near bearing pieces where practical. Place over bottom layer of pipe and anchor to opposite side of car, securing to prevent displacement. Winch taut using a minimum 30-in. bar. Maintain as much clearance from steel bands as possible to avoid damage to straps. Not required for uncoated pipe. Note: This application may be used only on sketches utilizing Item E separators between the bottom and second layers.
Alternate securement items		
Alt B-1	Minimum 5 per pile. (Not used with Alternate Items B-2 and C.)	All bearing pieces: 4 in. × 6 in. hardwood, length equal to width of car. Secure with three 3/4-in.-diameter bolts, one at each end and one as close as possible to center line of car. Hardwood, 6 in. × 6 in. or heavier, to be secured with two 3/4-in. bolts, one at each end. Bolts are also to pass through end Items U when used and must be applied according to Item B (Detail A).
Alt B-1A	Minimum 7 per pile. (Not used with Alternate Items B-2 and C.)	All bearing pieces: 4 in. × 6 in., spruce, contoured 2 in. deep to fit radius of pipe, length equal to width of car. Secure with ten 7-in. nails or with three 3/4-in.-diameter bolts, one at each end and one as close as possible to centerline of car. Item D chocks optional (Detail A).
Alt B-2	2 per pile. (Use with Alternate Item C.)	End bearing piece: 6 in. × 6 in. hardwood, length equal to width of car, contoured to fit pipe diameter. Secure to each Item U with minimum of two 8-in. spikes (Detail A). May be substituted with 2 in. × 6 in. hardwood, noncontoured, with Item D chock blocks applied on each side of each piece of pipe. Secure each bearing piece to car floor with eight 40-D nails.
Alt C	Minimum 3 per pile. (Use with Alternate Item B-2.)	Intermediate bearing piece: 4 in. × 6 in. hardwood, length equal to width of car. Secure to each Item U with two 8-in. spikes (Detail A). 2 in. × 6 in. hardwood intermediate bearing pieces may be used when noncontoured end bearing are used for Alternate B-2.
Alt E	Minimum 3 pair per tier not nested.	Separators: a pair is two pieces as shown in Detail F. Place at three locations throughout length of load, one pair adjacent to each end Item E and one pair adjacent to Item E nearest center of load. Use optional.

IMPLEMENTED 12/2014

Fig. 280 (Rev. 12/14) (Continued)
(New 10/73)

PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 72 IN. O.D., 80 FT LONG, SINGLE PILE, DOUBLE-END OVERHANG—FLATCARS

Notes and Additional Requirements:

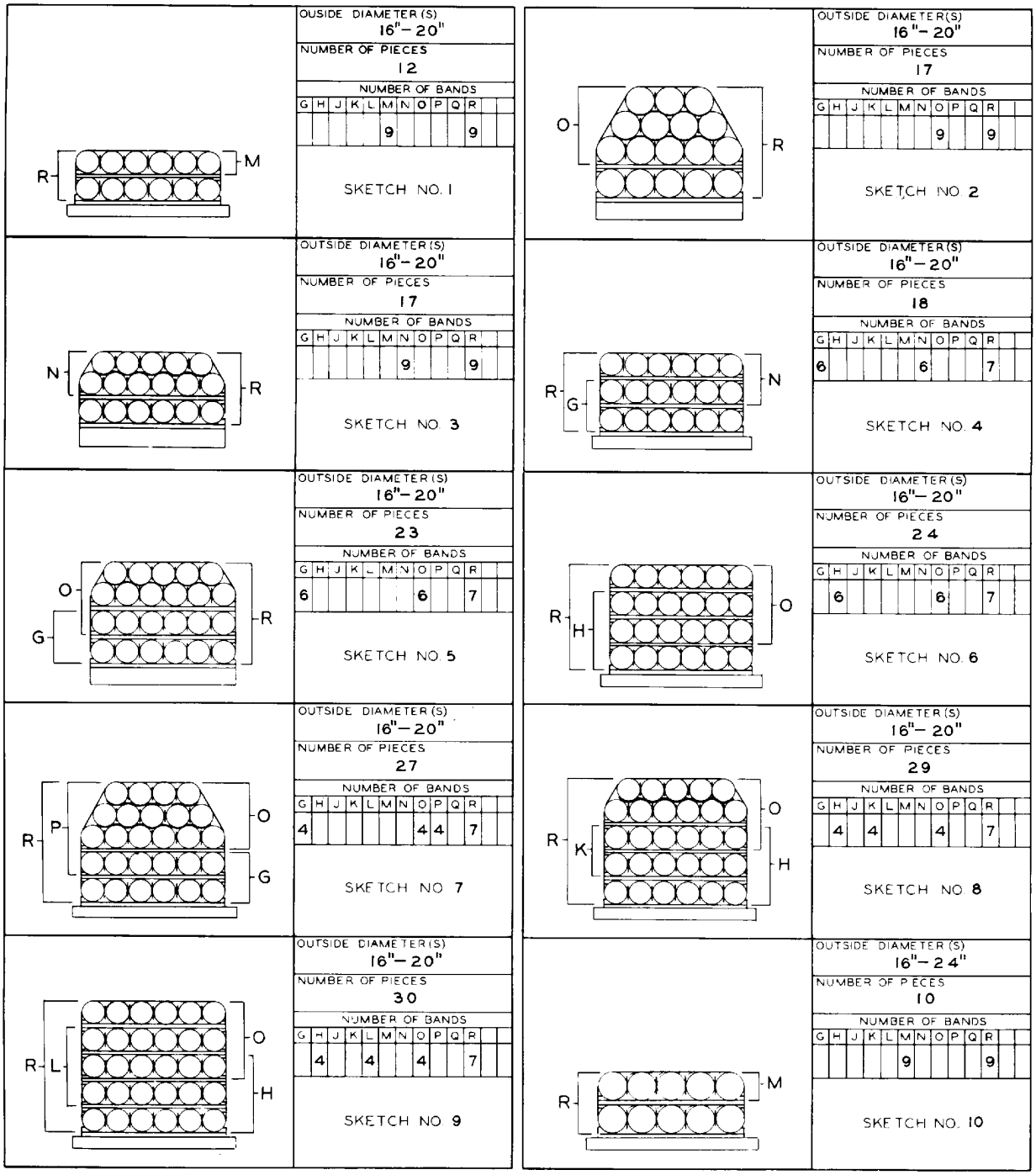
1. This figure is designed and intended for nominal pipe lengths of 80 ft (–15 ft). Random-length variations are acceptable provided all other criteria of this figure are met (see Note 2).
2. Longer length pipe must be located on the bottom layer of the load. Place pipe shorter than 65 ft on the top two tiers, unless complying with Note 14. Length of pipe to be no less than 20 ft.
3. Bands are sufficient for loads up to 140,000 lb. Add one band of each designation on load sketch used, for each additional 20,000 lb or less of load weight.
4. When short pipe lengths are loaded on the top two tiers (see Note 2), place two extra bands that encircle the top 2/3 of pile to include the shortest pipe length. A short length of pipe is defined as 15 ft less than the longest pipe.
5. Bearing pieces and separators, as shown, are sufficient for loads up to 140,000 lb. Add one additional bearing piece and separator for each additional 20,000 lb or less of load weight.
6. Bearing pieces may be extended beyond width of car deck to accommodate the application of Item D chock blocks. When this application is necessary, extended portion must be supported or the bearing piece size increased to 4 in. × 6 in.
7. When pipe is coated and/or wrapped, adequate padding or protection must be used to prevent chafing at bearing points. (Shipper's discretion to use as optional requirement.)
8. When obtaining clearance from the rail carriers for the movements of these loads, overhang length measurements must be reported to be 4 ft longer than the actual overhang measurements to allow for clearance when the load shifts.
9. More pieces per tier (width of load) may be loaded if the same end configuration and number of bands required by all sketches are applied as indicated.
10. Sketch Nos. 20, 31, and 36 must be prepared with contoured chocks or bearing pieces.
11. Center line of pipe must be within inside edge of car side sills.
12. All banding should be equally spaced throughout the entire pile.
13. Maximum two pipe lengths can be loaded end to end (double-ended) on the top two tiers. The distance between the pipe must be a minimum of 12 in. and a maximum of 24 in. Pipe that is double-ended can be no longer than the pieces directly beneath it.
14. Maximum two pipe lengths can be loaded end to end (double-ended) on the bottom layer and must be equal to the length of pipes above it. The distance between the pipe must be a minimum of 12 in. and a maximum of 24 in. Outside pipe must be a single piece and be the full length of the load.

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

IMPLEMENTED 12/2014

Fig. 280 (Rev. 12/14) (Continued)
(New 10/73)

PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 72 IN. O.D., 80 FT LONG, SINGLE PILE, DOUBLE-END OVERHANG—FLATCARS

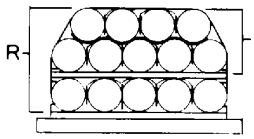


IMPLEMENTED 12/2014

IMPLEMENTED 12/2014

Fig. 280 (Rev. 12/14) (Continued)
(New 10/73)

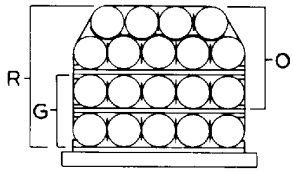
PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 72 IN. O.D., 80 FT LONG, SINGLE PILE, DOUBLE-END OVERHANG—FLATCARS



OUSIDE DIAMETER (S) 16"– 24"
NUMBER OF PIECES 14

G	H	J	K	L	M	N	O	P	Q	R
						9			9	

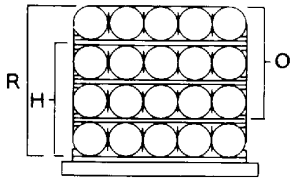
SKETCH NO. 11



OUTSIDE DIAMETER(S) 16"– 24"
NUMBER OF PIECES 19

G	H	J	K	L	M	N	O	P	Q	R
6							6		7	

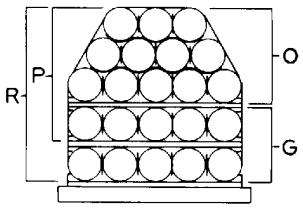
SKETCH NO. 12



OUTSIDE DIAMETER(S) 16"– 24"
NUMBER OF PIECES 20

G	H	J	K	L	M	N	O	P	Q	R
	6						6		7	

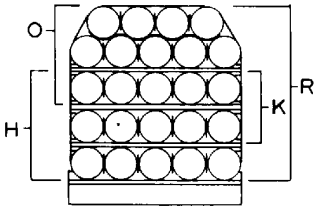
SKETCH NO. 13



OUTSIDE DIAMETER(S) 16"– 24"
NUMBER OF PIECES 22

G	H	J	K	L	M	N	O	P	Q	R
4							4	4	7	

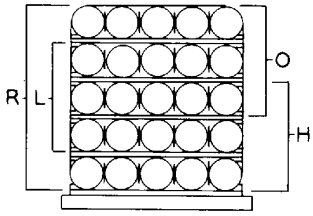
SKETCH NO. 14



OUTSIDE DIAMETER(S) 16"– 24"
NUMBER OF PIECES 24

G	H	J	K	L	M	N	O	P	Q	R
	4		4				4		7	

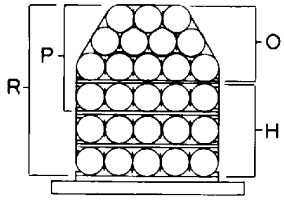
SKETCH NO 15



OUTSIDE DIAMETER(S) 16"– 24"
NUMBER OF PIECES 25

G	H	J	K	L	M	N	O	P	Q	R
	4			4			4		7	

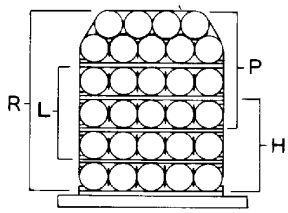
SKETCH NO. 16



OUTSIDE DIAMETER(S) 16"– 24"
NUMBER OF PIECES 27

G	H	J	K	L	M	N	O	P	Q	R
	4						4	4	7	

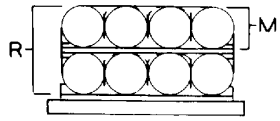
SKETCH NO 17



OUTSIDE DIAMETER(S) 16"– 24"
NUMBER OF PIECES 29

G	H	J	K	L	M	N	O	P	Q	R
	4			4				4	7	

SKETCH NO. 18

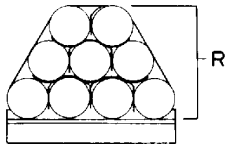


OUTSIDE DIAMETER(S) 16"– 32"
NUMBER OF PIECES 8

G	H	J	K	L	M	N	O	P	Q	R
					9				9	

SKETCH NO 19

SEE NOTE 9



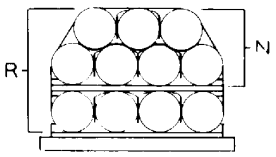
OUTSIDE DIAMETER(S) 16"– 32"
NUMBER OF PIECES 9

G	H	J	K	L	M	N	O	P	Q	R
									14	

SKETCH NO. 20

Fig. 280 (Rev. 12/14) (Continued)
(New 10/73)

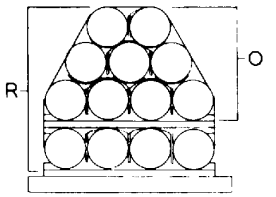
PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 72 IN. O.D., 80 FT LONG, SINGLE PILE, DOUBLE-END OVERHANG—FLATCARS



OUSIDE DIAMETER (S) 16"–32"
NUMBER OF PIECES 11

NUMBER OF BANDS												
G	H	J	K	L	M	N	O	P	Q	R		
						9			9			

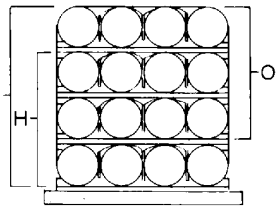
SKETCH NO 21



OUTSIDE DIAMETER (S) 16"–32"
NUMBER OF PIECES 13

NUMBER OF BANDS												
G	H	J	K	L	M	N	O	P	Q	R		
							9			9		

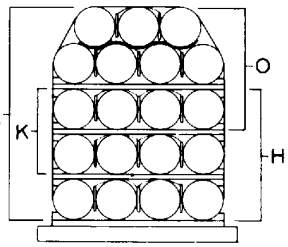
SKETCH NO 23



OUTSIDE DIAMETER (S) 16"–32"
NUMBER OF PIECES 16

NUMBER OF BANDS												
G	H	J	K	L	M	N	O	P	Q	R		
	6						6			7		

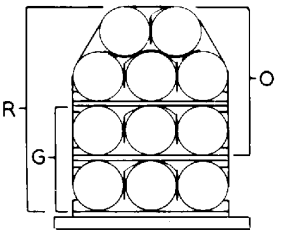
SKETCH NO 25



OUTSIDE DIAMETER (S) 16"–32"
NUMBER OF PIECES 19

NUMBER OF BANDS												
G	H	J	K	L	M	N	O	P	Q	R		
	4		4				4			7		

SKETCH NO 27



OUTSIDE DIAMETER (S) 16"–42"
NUMBER OF PIECES 11

NUMBER OF BANDS												
G	H	J	K	L	M	N	O	P	Q	R		
6							6			7		

SKETCH NO 29

OUTSIDE DIAMETER (S) 16"–32"
NUMBER OF PIECES 12

NUMBER OF BANDS												
G	H	J	K	L	M	N	O	P	Q	R		
6						6			7			

SKETCH NO 22

OUTSIDE DIAMETER (S) 16"–32"
NUMBER OF PIECES 15

NUMBER OF BANDS												
G	H	J	K	L	M	N	O	P	Q	R		
6						6			7			

SKETCH NO. 24

OUTSIDE DIAMETER (S) 16"–32"
NUMBER OF PIECES 17

NUMBER OF BANDS												
G	H	J	K	L	M	N	O	P	Q	R		
4						4	4		7			

SKETCH NO. 26

Sketch Omitted Intentionally

OUTSIDE DIAMETER (S)
NUMBER OF PIECES

NUMBER OF BANDS												
G	H	J	K	L	M	N	O	P	Q	R		

SKETCH NO 28

OUTSIDE DIAMETER (S) 16"–48"
NUMBER OF PIECES 6

NUMBER OF BANDS												
G	H	J	K	L	M	N	O	P	Q	R		
					9					9		

SKETCH NO. 30

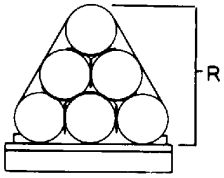
IMPLEMENTED 12/2014

IMPLEMENTED 12/2014

Fig. 280 (Rev. 12/14) (Concluded)
(New 10/73)

PIPE, STEEL, BARE, COATED, OR WRAPPED, 16 IN. TO 72 IN. O.D., 80 FT LONG, SINGLE PILE, DOUBLE-END OVERHANG—FLATCARS

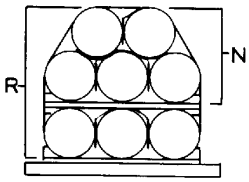
SEE NOTE 9



OUSIDE DIAMETER (S) 16"– 48"
NUMBER OF PIECES 6
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
										14

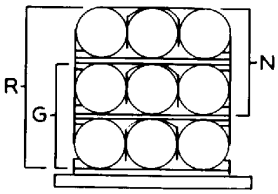
SKETCH NO. 31



OUTSIDE DIAMETER(S) 16"–48"
NUMBER OF PIECES 8
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
						9				9

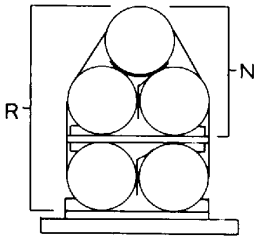
SKETCH NO. 32



OUTSIDE DIAMETER(S) 16"–48"
NUMBER OF PIECES 9
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
6						6				7

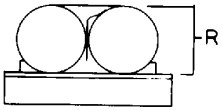
SKETCH NO. 33



OUTSIDE DIAMETER(S) 16"–56"
NUMBER OF PIECES 5
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
						9				9

SKETCH NO. 34

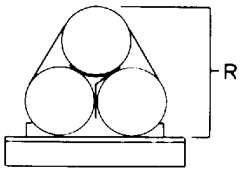


OUTSIDE DIAMETER(S) 16"–72"
NUMBER OF PIECES 2
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
										8

SKETCH NO. 35

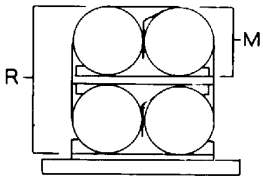
SEE NOTE 9



OUTSIDE DIAMETER(S) 16"–72"
NUMBER OF PIECES 3
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
										10

SKETCH NO. 36



OUTSIDE DIAMETER(S) 16"–72"
NUMBER OF PIECES 4
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R
					9					9

SKETCH NO. 37

OUTSIDE DIAMETER(S)
NUMBER OF PIECES
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R

OUTSIDE DIAMETER(S)
NUMBER OF PIECES
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R

OUTSIDE DIAMETER(S)
NUMBER OF PIECES
NUMBER OF BANDS

G	H	J	K	L	M	N	O	P	Q	R