



Channel - Lok™

HD PERF. BIN FLOORS & SUPPORTS Installation & Owner's Manual

MAJOR BIN DIAMETERS

15'	18'	21'
24'	27'	30'
33'	36'	42'
48'	54'	60'
72'	75'	78'
90'	105'	

Sukup Manufacturing Co.

1555 255th Street, Box 677

Sheffield, Iowa, USA 50475-0677

Phone: 641-892-4222

Fax: 641-892-4629

Website: www.sukup.com

E-mail: info@sukup.com

IMPORTANT: This manual is for installation of **Heavy Duty Perforated Flooring** in bin diameters shown above. For installation manual for other type of Sukup flooring, see table below.

FLOORING TYPE	PLANK WIDTH	BIN MFR.	MANUAL #
Heavy Duty Perforated	7-1/8"	Sukup	L1417HDB
	7-1/8"	Other	L1418HDB
Hawk Cut	7"	Sukup	L1417
	7"	Other	L1418

DATES

REVISIONS

PAGES

09/22/2020 – Updated stacking tables-----	35, 37, 39, 43, 45, 47, 51
08/14/2020 – Updated instructions to reflect new design of floor support bridges -----	16-25
07/27/2020 – Removed references to discontinued 7-1/16" Heavy-Duty Perforated flooring -----	1
06/08/2020 – Removed references throughout to discontinued 18ga Heavy-Duty Perforated flooring	

INTRODUCTION

This product was carefully designed to give years of dependable service and was manufactured with the finest materials available. This manual includes information relating to safety and installation and should be thoroughly read prior to installation of Channel-Lok bin floor and supports. Due to the scope of projects involving material handling equipment and the wide variety of situations, this manual cannot cover all aspects. Qualified civil engineers and contractors should be relied upon for site design, layout and construction. This manual is to be used as a guideline only. The reliability, safety and good service life of this product depends to a very large extent on the care taken in installing and otherwise preparing this product for its intended use.

RECEIVING AND INSPECTION

Carefully inspect materials for damage as soon as they are received. Verify that quantities of parts or packages received correspond to quantities shown on packing slip. Report any damage or shortage to delivery carrier as soon as possible. Sukup Manufacturing Co.'s responsibility for damage to materials ended with acceptance by delivery carrier. Refer to bill of lading. Save all paperwork and documentation furnished with floor components.

NOTICE: Prior to installation, protect floor from weather.
Do not allow moisture to become trapped between any galvanized parts.

DISCLAIMER: Grain pressure can cause flooring to cup, especially in deeper grain (taller bins). Cupping does not constitute a floor failure, thus is not covered by Sukup Manufacturing Co. warranty.

NOTE: For instructions on installation of flush floor over aeration tunnel(s), see manual L14045, Flush Floor Aeration Installation & Owner's Manual.

TABLE OF CONTENTS

Limited Warranty-----	3
Safety-----	4
Super Supports Installation Instructions -----	9
SuperWave Supports Installation Instructions -----	12
Supporting Floor Over Unload System -----	16
Supporting Floor in Front of Fan -----	26
Supporting Floor Planks at Splits -----	27
Installing Split Planks at Center Sump -----	28
Floor Plank Splicing-----	29
Flashing Installation-----	30
Floor Plank Layouts-----	32
Contact Information -----	78

**Sukup Manufacturing Co.**

PO Box 677 Sheffield, IA USA 50475

Phone: 641-892-4222 Fax: 641-892-4629

E-mail: Info@sukup.com Visit us at: www.sukup.com

GRAIN HANDLING & MATERIAL HANDLING LIMITED WARRANTY

SUKUP MANUFACTURING CO. (Sukup) warrants to original retail purchaser that within time limits set forth, new equipment shall be free from defects in material and workmanship. A part will not be considered defective if it substantially fulfills performance specifications, such as cosmetic (appearance) issues that will not affect life of product. Should any part prove defective within the warranty period, the part will be replaced without charge F.O.B. Sukup Manufacturing Co., Sheffield, Iowa USA or Distribution Centers - Arcola, Illinois; Aurora, Nebraska; Defiance, Ohio; Jonesboro, Arkansas; Cameron, Missouri; Watertown, South Dakota. To obtain warranty, a copy of original invoice is required, see reverse side.

THE FOREGOING LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE AND OF ANY OTHER TYPE, WHETHER EXPRESS OR IMPLIED. Sukup neither assumes nor authorizes anyone to assume for it any other obligation or liability in connection with said part, and will not be liable for incidental or consequential damages. **THE REMEDIES STATED HEREIN SHALL BE THE EXCLUSIVE REMEDIES AVAILABLE UNDER THIS LIMITED WARRANTY.**

Sukup reserves the right to change specifications, add improvements or discontinue manufacture of any of its equipment without notice or obligation to purchasers of its equipment. This warranty gives you specific legal rights. You may also have other rights which vary according to state or province.

WARRANTY EXCLUSIONS - Labor, transportation, or any cost related to a service call is not provided by Sukup. This Limited Warranty does not apply to damage resulting from misuse, neglect, normal wear, accident or improper installation or maintenance. **ITEMS NOT MANUFACTURED BY SUKUP (e.g. tires, belts, motors) ARE COVERED UNDER WARRANTIES OF THEIR RESPECTIVE MANUFACTURERS AND ARE EXCLUDED FROM COVERAGE UNDER THE SUKUP WARRANTY.** Since the stirring down augers are so critical to the successful operation of the stirring machine, Sukup Manufacturing Co. will not warranty any machines unless they are equipped with Sukup down augers. **SUKUP MANUFACTURING CO. MAKES NO WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO DOWN AUGERS LONGER THAN 20', INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY AND WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.**

Upon taking delivery of product, purchaser (dealer and/or end user) assumes responsibility for proper storage of all materials. Proper storage includes dry, temperature and humidity controlled facilities, which eliminate the potential of moisture, including condensation, from causing white rust and/or corrosion of any sort. Warranty does not extend to defects, damage or cosmetic (appearance) issues caused by improper storage, handling or erection.

BASIC WARRANTY - All Sukup manufactured products are warranted for one year from date of purchase. Part(s) must be returned to Sukup within 30 days in event of failure.

EXTENDED STIRRING MACHINE WARRANTY - Sukup warrants stirring machines for two years from date of purchase.

EXTENDED STIRRING AUGER WARRANTY - Sukup warrants stirring down augers for two years from date of purchase. Must return top 18" of down auger to obtain credit.

EXTENDED FAN WARRANTY - Sukup warrants fans for two years from date of purchase.

EXTENDED HEATER CIRCUIT BOARD WARRANTY - Sukup warrants heater circuit boards for three years from date of purchase.

EXTENDED MATERIAL HANDLING WARRANTY - Sukup warrants Material Handling, excluding structural support systems, for two years from date of purchase.

REPLACEMENT PARTS WARRANTY PERIOD - Sukup warrants replacement parts (e.g. belts, sensors, rotating contacts, gearmotors, switches) purchased from Sukup for one (1) full drying season following purchase.

ELECTRIC MOTOR WARRANTY - The manufacturers of electric motors warranty their motors through authorized service centers for a 2 year period from motor date code. Contact motor manufacturer for nearest location. If motor warranty is refused by a service center based upon date of manufacture, use the following procedure: Have motor repair shop fill out warranty report form as if they were providing warranty service. State on report reason for refusal. Send report, motor nameplate, and proof of purchase date (invoice from Sukup and invoice for your customer) to Sukup. If electric motor warranty is not satisfactorily handled by motor service center, contact Sukup for assistance. Sukup will attempt to obtain warranty from motor manufacturer, any credit obtained will be passed on. Warranty may also be obtained by returning motor to Sukup Manufacturing Co. or Distribution Centers with prior authorization. **NOTE:** Sukup will not be responsible for unauthorized motor replacement or repair. Labor for removal of motor from fan not included.

WARRANTY CERTIFICATION - Warranty registration card should be mailed within one month of product delivery to certify warranty coverage.

UNAPPROVED PARTS OR MODIFICATION - All obligations of Sukup under this warranty are terminated if unapproved parts such as stirring augers longer than 20' are used, or if equipment is modified or altered in any way not approved by Sukup.



Read manual before installing or using product. Failure to follow instructions and safety precautions in manual can result in death or serious injury. Keep manual in a safe location for future reference.



On safety decals, this symbol and the signal words Danger, Warning, Caution and Notice draw your attention to important instructions regarding safety. They indicate potential hazards and levels of intensity.



RED - DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



ORANGE - WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



YELLOW - CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.



BLUE - NOTICE alerts you to practices unrelated to personal injury, such as messages related to property damage.

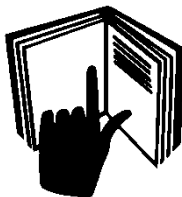
IMPORTANT: To prevent serious injury or death to you or your family, it is essential that safety decals are clearly visible, in good condition, and applied to the appropriate equipment.

FOLLOW MANUAL & SAFETY DECAL MESSAGES

Carefully read this manual and all safety decals on your

equipment. Safety decals must be kept in good condition. Replace missing or damaged safety decals by contacting Sukup

Manufacturing Co. via mail at PO Box 677, Sheffield, Iowa USA, 50475; by phone at 641-892-4222; or by e-mail at info@sukup.com.



It is the responsibility of the owner/operator to know what specific requirements, precautions, and work hazards exist. It is also the responsibility of the owner/operator to inform anyone operating or working in the area of this equipment of hazards and safety precautions that need to be taken to avoid personal injury or death. Always keep children away from bins and vehicles with flowing grain.

Make no unauthorized modifications to machine. Modifications may endanger function and/or safety of unit. Keep unit in good working condition. Keep shields in place. Replace worn or missing shields free of charge by contacting Sukup Manufacturing Co.

GRAIN BIN SAFETY

Owners/operators are responsible for developing site-specific confined space entry procedures. OSHA's confined space entry procedures (29CFR 1910.146) can be found at www.osha.gov.

If you must enter bin for repair or maintenance:

- Use a safety harness, safety line and respirator
- Station another person outside of bin
- Avoid the center of the bin
- Wear appropriate personal protective equipment
- Keep clear of all augers and moving parts



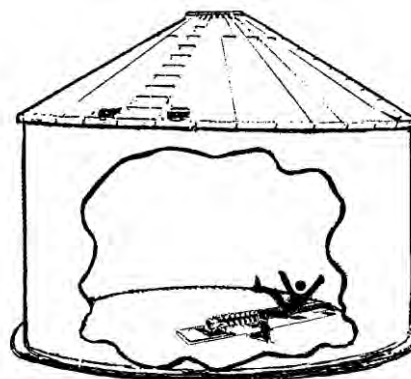
DANGER: Never enter bin unless all power is locked out and another person is present.



Rotating augers can kill or dismember!

NEVER enter bin when augers are running!

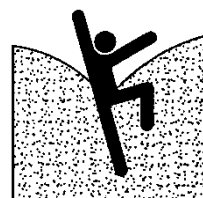
When bin is nearly empty, sweep auger will travel at an increasingly fast speed. Keep away from sweep and sump augers to avoid entanglement.



Failure to follow precautions above will result in death or serious injury.



DANGER: Flowing grain may trap and suffocate. If you enter a bin of flowing grain you can be completely submerged in grain in about 8 seconds.



Failure to heed this warning will result in death or serious injury.

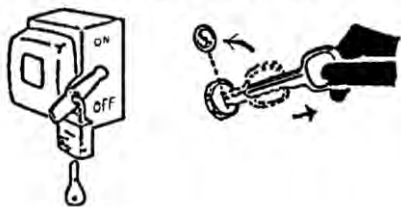
Safety

To avoid electric shock or electrocution, all equipment must be properly wired and grounded according to electrical codes. Have unit wired by qualified electrician.



Have an electrician install a main power disconnect switch capable of being locked only in OFF position. Mark disconnect clearly as to equipment it operates. Always lock out main power disconnect switch whenever equipment is not in use.

Service Disconnect



WARNING: When servicing equipment, never enter bin unless all power is locked out and another person is present. Always LOCK OUT all power and always check with voltage meter before servicing.

Failure to do so could result in death or serious injury.

Owners/operators are responsible for developing site-specific Lockout/Tagout procedures based on equipment at their work site. See OSHA's typical minimal lockout procedures (29CFR 1910.147 App A) at www.osha.gov.



WARNING: KEEP CLEAR OF ALL MOVING PARTS.

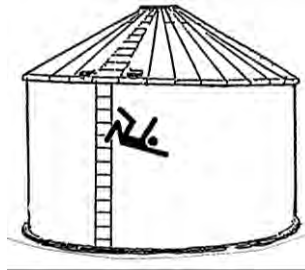
Keep people (ESPECIALLY YOUTH) away from equipment, particularly during operation.

Keep away from all moving parts. Keep all shields in place. **SHUT OFF AND LOCK OUT** all power before servicing.

Failure to follow precautions above could result in death or serious injury.



WARNING: Metal is slippery when wet. To avoid falls, never carry items if climbing on bin. Maintain secure hand and foothold if climbing on bin. Failure to do so could result in death or serious injury.



CAUTION: Metal edges are sharp. To avoid injury, wear protective clothing and handle equipment and parts with care.

Failure to do so may result in minor or moderate injury.

PERSONAL PROTECTIVE EQUIPMENT



Owners/Operators are responsible for developing site-specific personal protective equipment standards. OSHA's personal protective equipment standards (29CFR 1910.132) can be found at www.osha.gov.

EMERGENCIES – KNOW WHAT TO DO

Have emergency numbers and written directions to work site readily available in case of emergency. An area for emergency phone numbers to be recorded is provided below and at end of this manual.

Ambulance • Fire • Police: 9-1-1

Bin rescue team: _____

Emergency medical squad: _____

Address of work site: _____

Directions to work site: _____

STORED GRAIN, EQUIPMENT HAZARDS

IMPORTANT: A bin floor itself is not a hazard, but grain stored in bin and unload equipment installed in bin can create hazardous situations. Fig. 1 shows dangers of grain stored in bin, including obstructed flow, bridged grain, and collapse of bridged grain, all of which can engulf a person in bin. Obstructions or bridging should be removed by means other than entering bin.

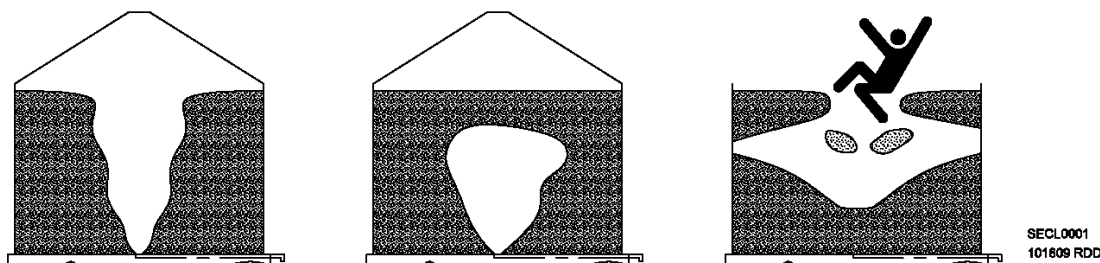


Fig. 1 – Obstructed-flow, bridged grain, collapsed bridge of grain in bin

Basic Safety Rules

1. Learn how to use controls and operate equipment.
2. Do not let anyone operate equipment without thorough training of basic operating and safety procedures. Follow a proper lockout procedure.
3. Do not modify or redesign equipment without first obtaining written approval from Sukup Manufacturing Co. Unauthorized modifications to equipment may impair function and/or safety and affect machine life.
4. Periodically check all mechanical and electrical components. Keep equipment in good working condition.
5. Handle equipment and parts with care. Wear protective clothing to avoid injury from sharp metal edges.

General safety procedures must be followed when working near or on grain bins. Engulfment and burial, falling from heights, dust and mold inhalation, pesticide exposure, electrocution, and injury from augers are hazards associated with grain bins. Refer to the Sukup Bin Operation Manual, L13920, for more specific information.

IMPORTANT: Failure to follow general safety precautions may cause serious injury or death.

SAFETY QUESTIONS OR CONCERNS

Please contact Sukup Manufacturing Co. with specific safety needs regarding this equipment or its use.

NOTICE: Do not run fans unless there is a minimum of 44" of grain over entire aeration floor. Starting fans without enough weight on floor may cause supports to be pushed out of position and cause failure of floor.

NOTICE: If bin is equipped with a sidedraw, do not use at same time sumps are being used to unload grain.



FOLLOW A PROPER LOCK-OUT PROCEDURE

This suggested procedure must be performed **EVERY TIME** your equipment is to be worked on. Following these steps will assist in preventing accidents.

- Each worker must have his/her own lock and the only key to that lock.
- Make sure equipment is not operating before turning off power.
- Notify all affected employees that equipment will be locked out for service.
- Authorized employee shall refer to the facility procedure referencing the power source for the equipment.
- Shut down equipment in a normal manner.
- All energy sources that could activate the equipment must be de-activated.
- Each person who will be working on the equipment must put a lock on any energy sources that could provide any power to the equipment.
- Confirm that power has been deactivated.
- Turn all controls for equipment back to their “off” positions.
- **NO ONE** is to return power to equipment until all work on it has been completed and all locks have been removed.

Facility management needs to proactively train employees to ensure use of proper lockout procedures before working on the equipment. Management also needs to inspect equipment for any covers or guards not in their proper place. It is everyone’s responsibility to report any missing grates, guards, equipment failures or failures to lock out. Make certain that no cover is removed unless power is locked out.

NOTE: Refer to OSHA document 1910.147 App A for a typical minimal lockout procedure.



DANGER: Never enter bin unless all power is locked out and another person is present. Entanglement in rotating auger will cause death or serious injury.

SAFETY DECAL PLACEMENT

Two **“DANGER DO NOT ENTER this bin!”** decals, L0258A-08, are supplied with Sukup bin equipment. Both decals should be placed where people entering bin or storage building will see them.

Install one **“DANGER”** decal on bin sheet next to door, opposite of hinge side.

Install other **“DANGER”** decal next to ladder leading to roof.

One **“WARNING”** decal, L0281-15, is also supplied. It should be placed next to **“DANGER”** decal on bin sheet next to door.

If suggested locations are not in full view, place safety decals in a more suitable location. Be certain not to cover any safety decals that are already there.

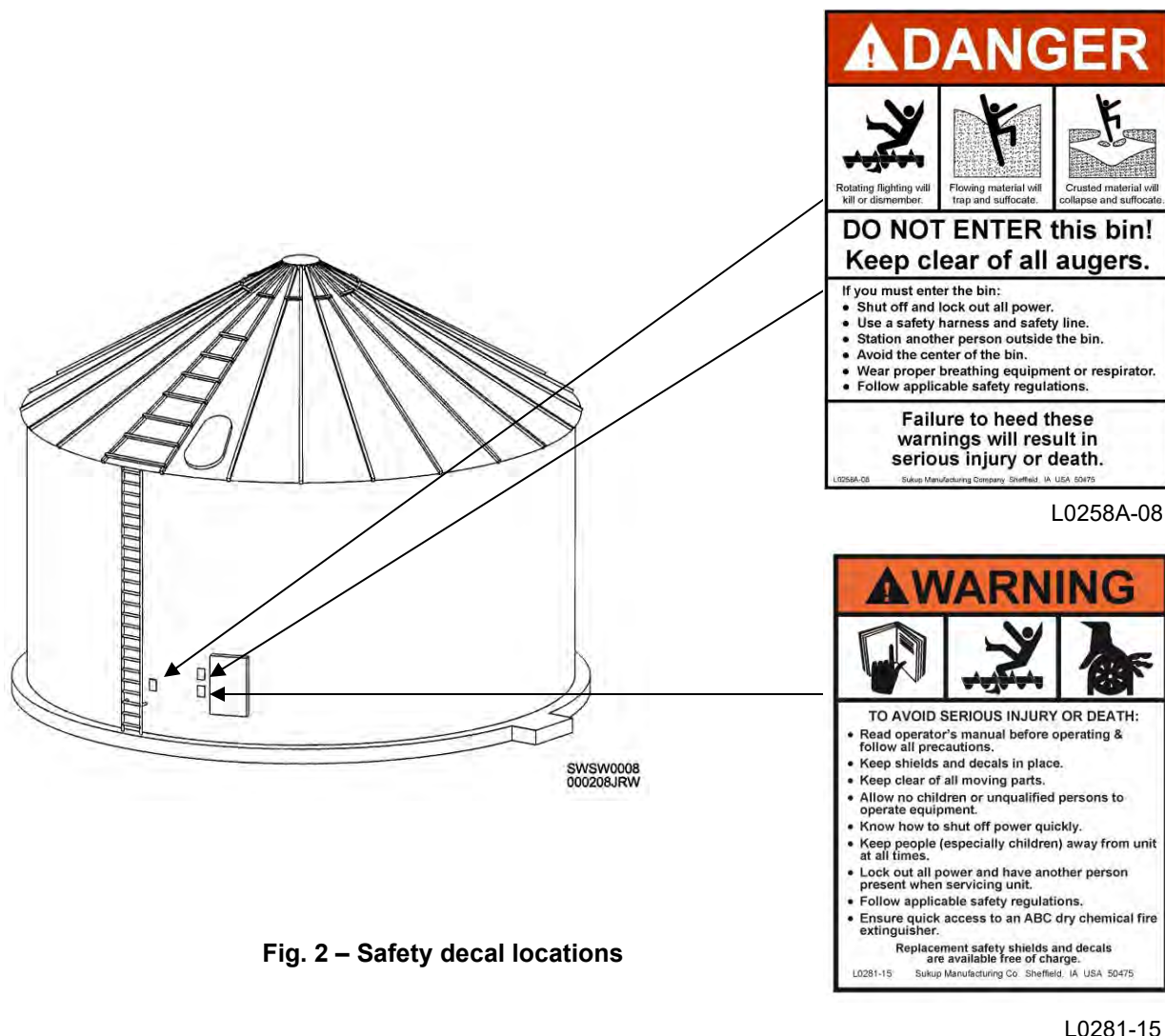


Fig. 2 – Safety decal locations

It is essential that these safety decals be mounted on bin to warn and remind of potential hazards. Decals may need to be replaced if damaged or worn. Order replacement safety decals or shields free of charge by contacting Sukup Manufacturing Co. by mail at PO Box 677, Sheffield, Iowa, USA, 50475; by phone at 641-892-4222; or by e-mail at info@sukup.com. Please specify computer number. Use decal placement drawing to determine location of decals.

FLAT TOP SUPER SUPPORTS INSTALLATION

Fig. 3 shows a Flat Top Super Support. Fig. 4 shows a Double Super Support. **NOTE:** Double Super Supports can be cut in half to use as singles.

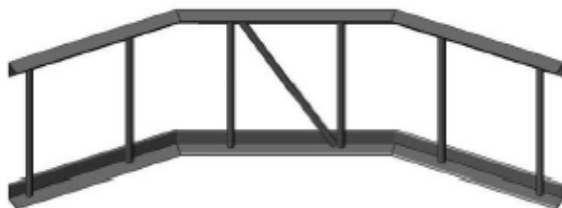


Fig. 3 – Flat Top Super Support

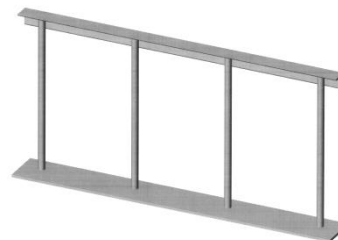


Fig. 4 – Double Super Support

See Flat Top Super Supports requirements on Page 11.

With recirculation devices, center half of bin is on 15" spacing; outside half is at 30". Use only with Heavy Duty Floors.

NOTE: With Continuous Flow Bottom Unload and Recirculation devices, maximum grain depth is 20'. Stirring machines are not recirculators; therefore, support spacing is based on eave height.

Key:

1	2
	3

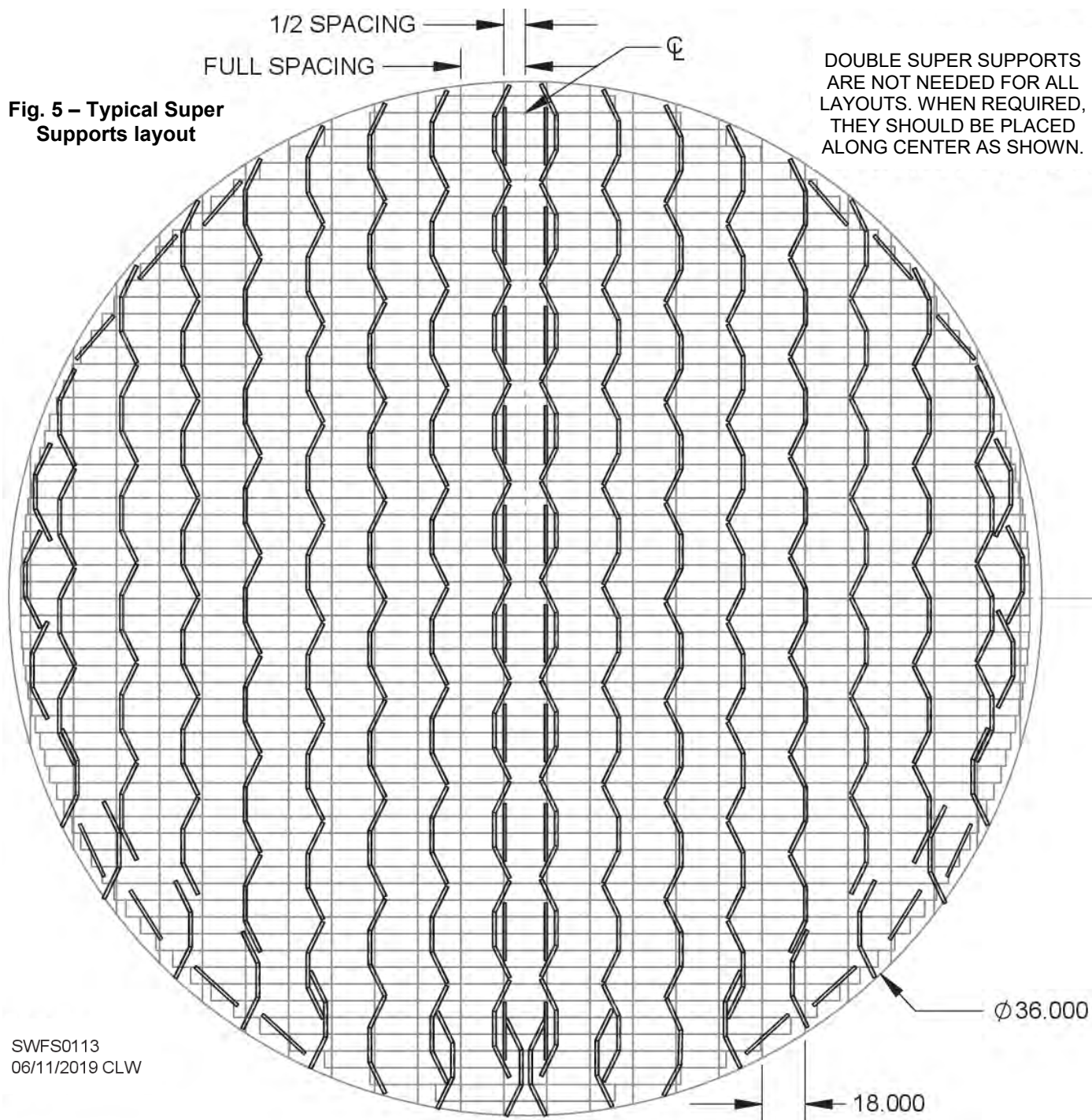
1 = # of Flat Top Super Supports 2 = Super Support Spacing in inches
3 = # of Double Super Supports (d)

Installation Steps for Flat Top Super Supports

1. Find exact center of bin and mark it.
2. Determine where unload auger or conveyor will be located. Mark a line through center of bin along path where unload will be installed.
3. Mark lines parallel to centerline at 1/2 of spacing given for Super Support. See table on Page 11. Mark on both sides of centerline.
4. Mark lines parallel to lines at required spacing, continuing across floor to bin wall.
5. Start at far side of bin and place Flat Top Super Supports on three or four lines marked on floor on each side of centerline as shown in Fig. 5. Add Double Super Supports to Flat Top Super Supports closest to center of bin as shown in Fig. 5 if needed to comply with spacing requirement in applicable table. Run a self-drilling screw through floor plank into Double Super Support to hold support in place.
6. Place first plank in bin. Position supports so plank channels run through cutouts in supports.
7. Place a Double Super Support at end of plank (at wall or at plank splice) if there is more than 7" of overhang in bin up to 16 rings tall, if there is more than 4" of overhang in bin 17-20 rings tall, or more than 2-1/2" in bin 21 or more rings tall. Shorter planks used at start and finish usually require an extra support.
8. Place next plank in bin. Add extra supports on ends if necessary. Ensure plank is centered in bin and there is an equal distance from each end of plank to bin wall. Make sure supports are spaced correctly and lie on lines marked on floor.
9. Install planks until first set of supports is almost covered. Place next support for that spacing so floor plank will rest on ends of each support without supports overlapping.
10. Repeat Steps 7-9.

Super Supports Installation

11. After installing first few rows of flooring and supports, install a few pieces of flashing to hold floor in place. See Page 30 for flashing installation.
12. Continue installing remainder of flooring and supports.
13. Install remainder of flashing.
14. Mount “Never Enter Bin” decal and “Safe Operation” decal near bin openings as described in safety packet, A3399 (bundled with floor).



Super Supports Installation

FLAT TOP SUPER SUPPORT REQUIREMENTS FOR HEAVY DUTY, 20 GA. PERF. FLOORS

BIN DIA.	# OF RINGS - SUKUP BINS (44" RING HEIGHT)																			CONT. FLOW	RECIRC. ULATOR																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21			22																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
	EAVE HEIGHT (FEET)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
13'	14'-16"	17'-19"	20'-22"	23'-26"	27'-30"	31'-33"	34'-37"	38'-41"	42'-44"	45'-48"	49'-52"	53'-56"	57'-59"	60'-63"	64'-66"	67'-70"	71'-74"	75'-78"	79'-81"																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
12'	16	35	18	31	20	28	22	25	20	24	20	21	24	20	26	19	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	26	17	

©5/27/11

SUPERWAVE SUPPORTS INSTALLATION

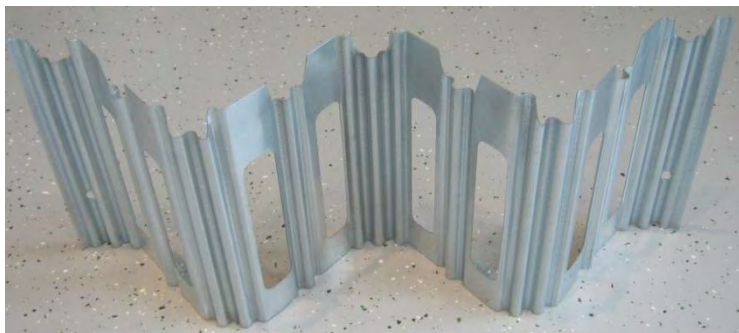


Image 1 – Full SuperWave Support



Image 2 – Half SuperWave Support

NOTE: Start floor installation on opposite side of bin from where unload auger or conveyor exits bin.

1. Find exact center of bin and mark it.
2. Determine where unload auger or conveyor will be located. Mark a line through center of bin along path where unload will be installed. Extend line to far end of bin and upward to top of sidewall sheet.
3. Mark lines on floor parallel to centerline at 1/2 of support spacing given for SuperWave Supports. See table on Page 15.
4. Draw parallel lines at suggested spacing, continuing across floor to bin walls.
5. Start at far side of bin and place SuperWave Supports on three or four lines marked on floor on each side of centerline. See Image 3. Middle two supports should be positioned up against bin wall or as close to it as possible to allow for perpendicular installation of flooring.



Image 3 – Positioning SuperWave Supports

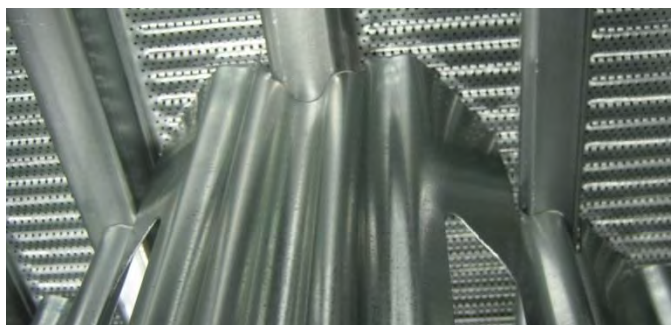


Image 4 – Marking bin wall, installing first plank

6. Mark center of shortest floor plank. Position plank as shown in Image 4 so middle of plank lines up with mark on bin wall.
7. Tilting plank upward, place channel of plank into cutout of SuperWave Support as shown in Image 5. Ensure channel is between first and second tabs of all SuperWave Supports, then lower plank into place until seated firmly. Every void between tabs in SuperWave Supports will be filled. See Image 6.
8. Shorter planks used at start and finish usually require an extra support, as do split planks. See tables on Pages 14 and 27 for maximum unsupported overhang.
9. Place next plank in bin, adjusting supports as necessary to ensure plank channels fit into cutout in supports. Tamp plank into place. Ensure plank is centered in bin and there is an equal distance from end of each plank to bin wall. Make sure supports are on lines marked on floor.

SuperWave Supports Installation

10. Install planks until first set of supports is almost covered. Place next SuperWave Support.



Images 5 & 6 – Positioning Heavy-Duty Perforated floor plank on SuperWave Supports

11. After installing first few rows of flooring and supports, install a few pieces of flashing to hold floor in place. See Page 30 for flashing installation.

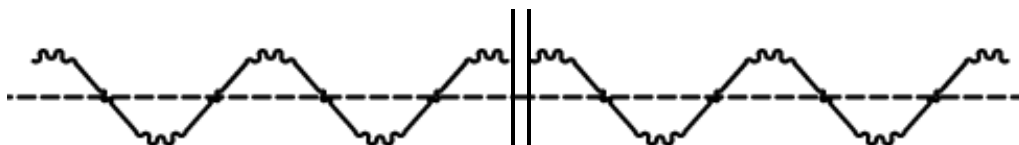


Fig. 6 – Maximum end-to-end gap is 1-3/16" for HD Perf.

12. Continue adding SuperWave Supports as installation of flooring moves toward center of bin. **NOTICE:** Ensure that supports stay centered on floor lines. **For Heavy-Duty Perforated flooring there can be 1-3/16" end-to-end gaps between SuperWave supports as shown in Fig. 6. Each rib of floor plank must be supported.** If installing long planks – 30 feet or longer – have three people putting each plank into place, one near each end and one in middle. If planks are 40 feet long, a fourth crew member will be helpful.

NOTE: Use Double Super Supports instead of SuperWave Supports directly in front of aeration fan inlet to allow better airflow. See Page 26.

13. Install sump(s) as directed in appropriate unload manual. Position Double Super Supports (as opposed to SuperWave Supports) along sides of sump(s) to support ends of floor planks. Use bridge over sump gate if required. See Pages 16-25. Use SuperWave Supports for rest of floor away from sump(s) and unload system.
14. Continue installing remainder of flooring and supports.
15. Install remainder of flashing.
16. Mount "Never Enter Bin" decal and "Safe Operation" decal near bin openings as described in safety packet, A3399 (bundled with floor).

IMPORTANT: Ensure supports do not block sump gate(s) from opening.

SuperWave Supports Installation

See table below for maximum unsupported overhang of floor plank at sidewall, depending on bin size. Maximums are applicable no matter which type of supports are used in bin.

If either floor plank at splice has a longer unsupported overhang, additional supports will be needed.

Fig. 7 shows typical SuperWave spacing in 36' diameter bin, with Half SuperWaves used to eliminate HD Perf. plank overhangs along sidewalls.

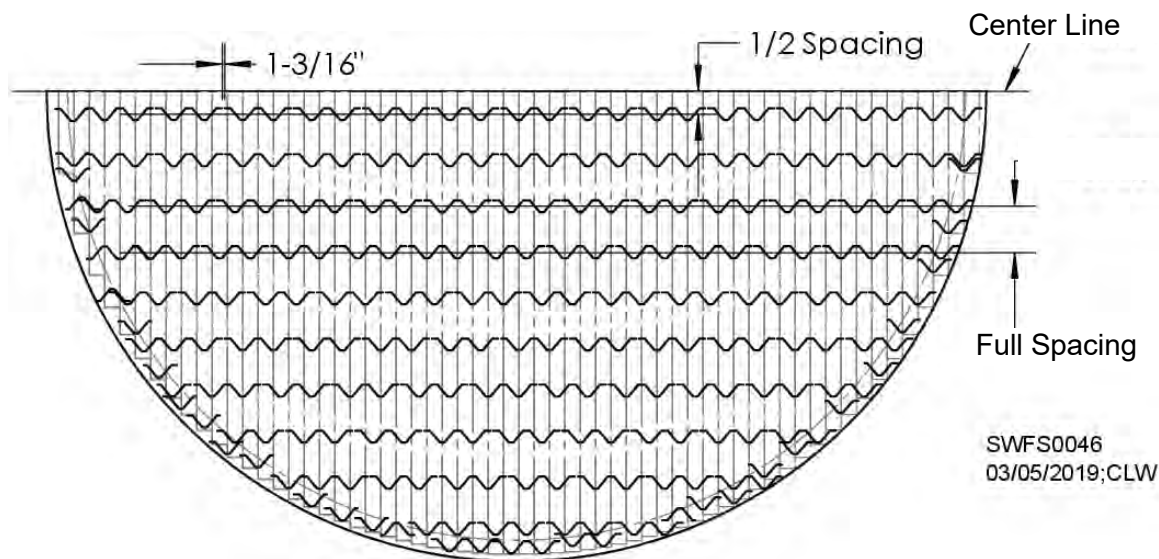


Fig. 7 – Typical SuperWave spacing in 36' dia. bin w/ HD Perf. flooring

BIN DIA.	# OF RINGS		
	3-16	17-20	21-24
≤21'	9-1/2"	9"	8-1/2"
21' 1" - 30'	9"	8-1/2"	8"
30' 1" - 48'	8-1/2"	8"	7"
48' 1" - 78'	7-1/2"	7"	6-1/2"

Max. overhang of HD Perf.

SuperWave Supports Installation

SUPERWAVE™ SUPPORT REQUIREMENTS FOR HEAVY DUTY, 20 GA. PERF. FLOORS

BIN DIA	# OF RINGS - SUKUP BINS (44" RING HEIGHT)																																								
	3 & 4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24																				
	EAVE HEIGHT (FEET)																																								
15'	16'	17'	19'	20'	22'	23'	26'	27'	30'	31'	33'	34'	37'	38'	41'	42'	44'	45'	48'	49'	52'	53'	56'	57'	59'	60'	63'	64'	66'	67'	70'	71'	74'	75'	78'	79'	81'	82'	85'	86'	88'
	22	39'	22	37'	24	35'	24	34'	26	32'	26	31'	34	25'	34	24'	36	23'	36	22'	38	21'	38	21'	38	20'	38	20'	40	19'	40	19'	40	18'	44	18'	44	18'	46	17'	
	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h
18'	30	39'	32	35'	36	32'	36	32'	36	32'	36	30'	44	25'	46	24'	48	23'	50	22'	52	21'	52	21'	56	20'	60	19'	60	19'	60	18'	62	18'	62	18'	64	17'	64	17'	
	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	
	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	
21'	44	38'	46	35'	52	32'	52	31'	54	30'	54	30'	54	30'	62	25'	64	24'	68	23'	70	22'	76	21'	76	20'	80	19'	80	19'	80	18'	84	18'	84	18'	84	17'	90	17'	
	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	20h	6d	
	58	38'	64	34'	64	32'	70	30'	72	29'	74	28'	76	27'	86	24'	90	23'	90	23'	90	22'	96	21'	100	20'	100	20'	106	19'	106	19'	112	18'	112	18'	116	17'			
27'	72	37'	78	34'	82	32'	86	30'	94	28'	96	27'	96	27'	106	24'	112	23'	116	22'	116	22'	126	21'	130	20'	130	20'	132	19'	132	19'	144	18'	144	18'	150	17'	150	17'	
	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	
	88	37'	94	34'	106	31'	112	29'	114	28'	122	26'	122	26'	132	24'	140	23'	144	22'	148	21'	156	20'	156	20'	162	19'	162	19'	176	18'	176	18'	180	17'	180	17'	194	16'	
33'	108	36'	120	33'	124	31'	134	29'	136	28'	148	26'	154	25'	160	24'	166	23'	172	22'	182	21'	194	20'	194	20'	198	19'	198	19'	212	18'	212	18'	224	17'	224	17'	236	16'	
	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	30h	6d	
	132	36'	138	33'	150	31'	158	29'	170	27'	178	26'	182	25'	192	24'	198	23'	210	22'	218	21'	226	20'	226	20'	238	19'	238	19'	254	18'	254	18'	264	17'	264	17'	280	16'	
36'	40h	6d	40h	6d	40h	6d	40h	6d	40h	6d	40h	6d	40h	6d	40h	6d	40h	6d	40h	6d	40h	6d	40h	6d	40h	6d	40h	6d	40h	6d	40h	6d	40h	6d	40h	6d	40h	6d	40h	6d	
	208	35'	228	32'	234	30'	250	28'	258	27'	268	26'	280	25'	288	24'	298	23'	326	21'	334	20'	354	19'	354	19'	370	18'	370	18'	392	17'	392	17'	410	16'	410	16'	438	15'	
	40h	6d	40h	6d	40h	6d	40h	6d	40h	6d	40h	6d	40h	6d	40h	6d	40h	6d	40h	6d	40h	6d	40h	6d	40h	6d	40h	6d	40h	6d	40h	6d	40h	6d	40h	6d	40h	6d	40h	6d	
48' Split	272	34'	288	32'	304	30'	328	28'	336	27'	356	25'	374	24'	382	23'	382	23'	422	21'	436	20'	460	19'	460	19'	484	18'	484	18'	512	17'	512	17'	538	16'	538	16'	570	15'	
	50h	6d	50h	6d	50h	6d	50h	6d	50h	6d	50h	6d	50h	6d	50h	6d	50h	6d	50h	6d	50h	6d	50h	6d	50h	6d	50h	6d	50h	6d	50h	6d	50h	6d	50h	6d	50h	6d	50h	6d	
	368	31'	392	29'	420	27'	432	26'	448	25'	460	24'	486	23'	500	22'	522	21'	548	20'	548	20'	576	19'	576	19'	606	18'	606	18'	640	17'	640	17'	680	16'	680	16'	716	15'	
54' Split	50h	6d	50h	6d	50h	6d	50h	6d	50h	6d	50h	6d	50h	6d	50h	6d	50h	6d	50h	6d	50h	6d	50h	6d	50h	6d	50h	6d	50h	6d	50h	6d	50h	6d	50h	6d	50h	6d	50h	6d	
	450	31'	480	29'	508	27'	532	26'	572	24'	592	23'	616	22'	616	22'	640	21'	676	20'	706	19'	706	19'	742	18'	742	18'	784	17'	784	17'	832	16'	832	16'	880	15'			
	60h	6d	60h	6d	60h	6d	60h	6d	60h	6d	60h	6d	60h	6d	60h	6d	60h	6d	60h	6d	60h	6d	60h	6d	60h	6d	60h	6d	60h	6d	60h	6d	60h	6d	60h	6d	60h	6d	60h	6d	
72' Split	698	28'	728	27'	778	25'	810	24'	846	23'	876	22'	916	21'	960	20'	960	20'	1004	19'	1060	18'	1120	17'	1120	17'	1186	16'	1186	16'	1262	15'	1262	15'	1350	14'	1350	14'	1464	13'	
	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	
	764	28'	818	26'	852	25'	882	24'	910	23'	954	22'	998	21'	1040	20'	1040	20'	1094	19'	1156	18'	1156	18'	1218	17'	1218	17'	1290	16'	1290	16'	1372	15'	1372	15'	1464	14'	1464	14'	
75' Split	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	
	860	28'	922	26'	954	25'	980	24'	1026	23'	1066	22'	1116	21'	1160	20'	1214	19'	1280	18'	1280	18'	1346	17'	1346	17'	1424	16'	1424	16'	1520	15'	1520	15'	1614	14'	1614	14'			
	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	70h	6d	
78' Double Split	1234	26'	1266	25'	1368	23'	1426	22'	1488	21'	1552	20'	1624	19'	1712	18'	1800	17'	1800	17'	1800	17'	1800	17'	1912	16'	1912	16'	2024	15'	2154	14'	2312	13'	2312	13'	2496	12'			
	80h	6d	80h	6d	80h	6d	80h	6d	80h	6d	80h	6d	80h	6d	80h	6d	80h	6d	80h	6d	80h	6d	80h	6d	80h	6d	80h	6d	80h	6d	80h	6d	80h	6d	80h	6d	80h	6d	80h	6d	
	1698	25'	1768	24'	1834	23'	1912	22'	1998	21'	2088	20'	2190	19'	2304	18'	2426	17'	2426	17'	2570	16'	2570	16'	2726	15'	2726	15'	2914	14'	3122	13'	3122	13'	3372	12'	3372	12'	3732	11'	
105' Double Split	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	
	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	
	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	90h	6d	

©3/8/19

Key: 1 = Number of Full SuperWave Supports
2 = SuperWave Support Spacing in inches
3 = Number of Half SuperWave Supports (h)
4 = Number of Double Super Supports (d)

1	2
3	4

SUPPORTING FLOOR OVER UNLOAD SYSTEM

Bridging kits are available from Sukup Manufacturing Co. to simplify installation of flooring over unload auger or conveyor and to improve strength and stability of flooring over unload system. Bridging is used with Standard or Heavy Duty Double Super Supports.

Start by examining table below. It identifies locations where floor bridging is needed in Sukup bins depending on unload system and width of center sump gate and intermediate sumps. Table also identifies kit needed (P5110 or P5111) if bridging is needed.

UNLOAD SYSTEM	CENTER SUMP GATE WIDTH	INTERMEDIATE SUMP WIDTH	UNLOAD WIDTH
6" Sweepway	16" (P5110)	N/A	6" (P5110)
8" Sweepway	23 1/2" (P5111)	N/A	8" (P5110)
10" Sweepway	23 1/2" (P5111)	N/A	10" (P5110)
10" U-trough	N/A	N/A	10 1/2"* (P5110)
8" Loop w/Powersweep	16" (P5110)	14" (P5110)	8" (P5110)
10" Loop w/Powersweep	16" (P5110)	14" (P5110)	10" (P5110)
12" Loop w/Powersweep	20" (P5111)	20" (P5111)	12" (P5110)
9" wide Conveyor w/Powersweep	N/A	N/A	13 1/2" (P5110)
12" wide Conveyor w/Powersweep	N/A	N/A	16 1/2" (P5110)
16" wide Conveyor w/Powersweep	N/A	N/A	20 1/2" (P5111)
21" wide Conveyor w/Powersweep	N/A	N/A	25" (P5111)

*NOTE: 14" wide at splices.

©3/8/18

Bridging locations & Kit # (P5110 or P5111)

Fig. 8 and table below show dimensions of bridges. Dims. A & B depend on height of Double Super Support (Standard & HD). Dimension A is from bin pad to notched portion of bridge. Dimension B is from bin pad to bottom of bridge.

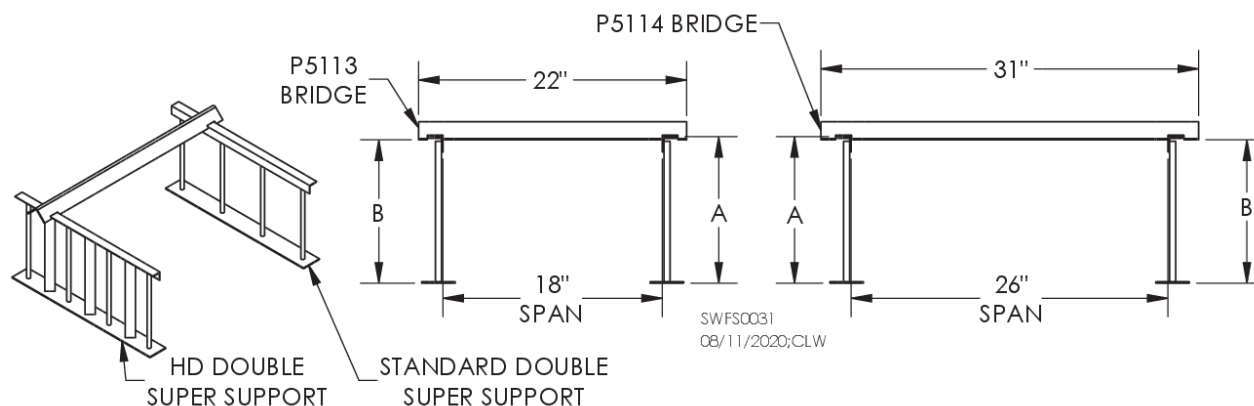


Fig. 8 – Bridge dimensions per Double Super Support height

DBL. SUPER SUPPORT HGT.	13-1/4"	15-7/8"	17"
DIM. A	12"	14-5/8"	17-1/8"
DIM. B	11-3/4"	14-3/8"	16-7/8"

Supporting Floor over Unload System

To install Sukup bridging, place Double Super Supports (Standard or Heavy-Duty) on each side of unload (Unload not shown for clarity). Place angle bridges on top of supports. Ensure that notches in angle bridges fit over tops of Double Super Supports. See Fig. 9.

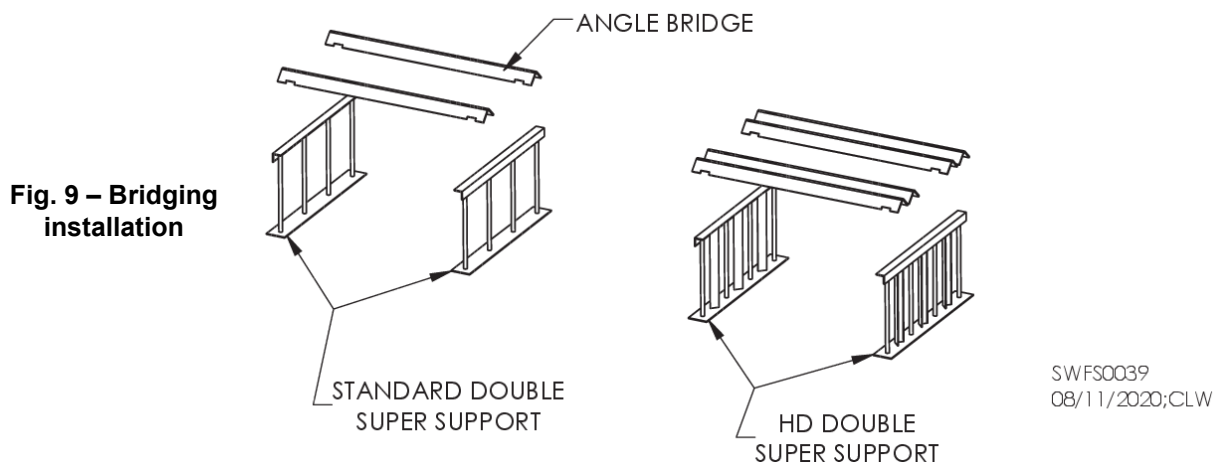


Fig. 10 shows side views of bridging under various floor plank types. Bridging must be at center of each plank. **IMPORTANT:** If only one bridge is required under a Heavy Duty plank, it must be under the same channel of each plank.

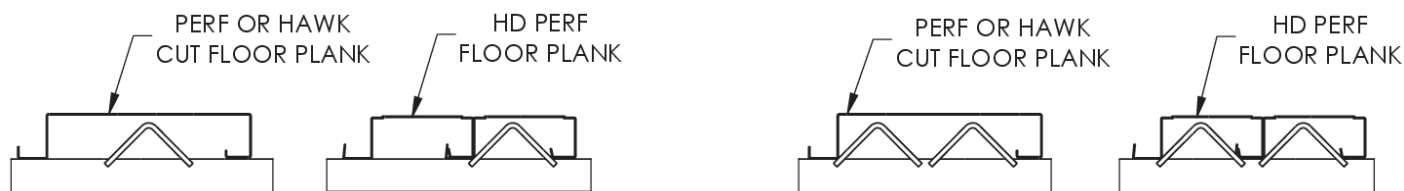


Fig. 10 – Centering bridges under planks

Table below shows part numbers of bridge kits, Standard Double Super Supports and Heavy Duty Double Super Supports.

DESCRIPTION	PART #
Bridge Kit, (1) tube & (1) holder, 18"	P5110
Bridge Kit, (1) tube & (1) holder, 26"	P5111
Standard Double Super Support, 5 1/4"	P5001
Standard Double Super Support, 13 1/4"	P5005
Standard Double Super Support, 15 7/8"	P5009
Standard Double Super Support, 17"	P5007
Heavy Duty Double Super Support, 5 1/4"	P50011
Heavy Duty Double Super Support, 13 1/4"	P50051
Heavy Duty Double Super Support, 15 7/8"	P50091
Heavy Duty Double Super Support, 17"	P50071

Bridge kit and support part numbers

Determining Need for Bridging

If applicable table for type of supports used under floor says supports should be placed closer than allowed by width of sump gate and/or unload system, then bridging is needed to support floor planks at sump(s) and/or along unload auger or conveyor. It is OK to use a Double Super Support in place of a SuperWave or Z-Post support to get closer to unload system without interference.

Determining Number of Bridges per Floor Plank

Use tables below to determine if one or two bridges are required per floor plank. If two are required, then Heavy Duty Double Super Supports must be used.

NOTE: When using Sukup Office, number of bridge kits and number and type of Double Super Supports (Standard or Heavy Duty) will be specified after entering type of unload system, bin diameter and height, type of flooring and supports. Number of Double Super Supports to go in front of fans will also be specified.

18" SPAN (P5113 BRIDGE)					
Single bridge per plank & Standard Double Super Supports			Two bridges per plank & HD Double Super Supports		
≤ 48' dia.	54-78'	90-105'	≤ 48' dia.	54-78'	90-105'
21	19	17	No limit	No limit	No limit

P5113 bridge limits for 20ga HD Perf. by bin diameter & number of rings (shaded)

26" SPAN (P5114 BRIDGE)					
Single bridge per plank & Standard Double Super Supports			Two bridges per plank & HD Double Super Supports		
≤ 48' dia.	54-78'	90-105'	≤ 48' dia.	54-78'	90-105'
15	13	11	26	24	24

P5114 bridge limits for 20ga HD Perf. by bin diameter & number of rings (shaded)

Example:

- A 21" wide drag conveyor in a 60' dia., 20-ring bin with 20ga Heavy-Duty Perf. flooring and SuperWave supports would require support spacing of 17", according to table on Page 15. Since 25" unload width (See upper table on Page 16) is wider than required 17" floor support spacing, 26" span bridging (P5114) is needed all along the conveyor. Since 13 rings is limit for single bridge under 20ga HD Perf. in a 60' bin (table above), two bridges must be used per plank, supported by Heavy Duty Double Super Supports.

NOTE: Supports used for bridging do not diminish need to abide by required spacing of other supports used under floor.

See drawings and tables on following pages for typical placement of Double Super Supports and bridging under flooring depending on type of unload system and floor supports used in bin.

NOTE: Remember that Z-Posts are staggered. Spacing shown in following tables is "A" spacing.

Supporting Floor over Sweepway

Fig. 11 shows typical use of Double Super Supports for Sweepway unload system with SuperWave Supports at 22" spacing. Drawing also shows bridging over center sump gate.

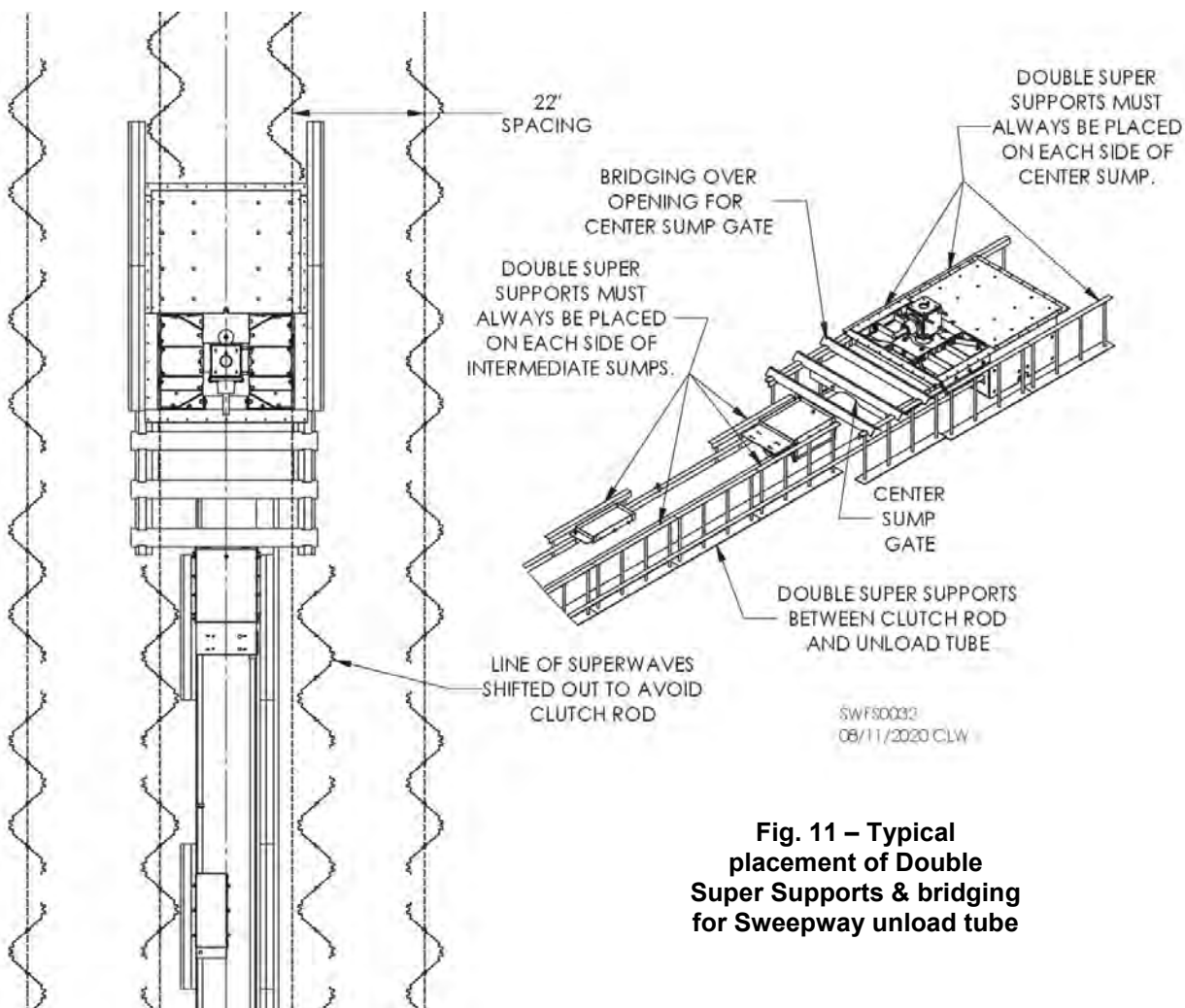


Fig. 11 – Typical placement of Double Super Supports & bridging for Sweepway unload tube

Table below shows when to install Double Super Supports on either side of center sump gate opening without bridging, depending on tube diameter, type of floor support used in bin, and support spacing.

UNLOAD DIA.	TYPE OF FLOOR SUPPORT	
	SUPERWAVES	Z-POSTS
6"	18" to 22"	36" to 44"
8"	24" to 30"	48" to 60"
10"	24" to 30"	48" to 60"

Table below shows when to use bridging over center sump gate opening, depending on tube diameter, type of floor support used in bin, and support spacing.

UNLOAD DIA.	TYPE OF FLOOR SUPPORT	
	SUPERWAVES	Z-POSTS
6"	<18"	<36"
8"	<24"	<48"
10"	<24"	<48"

Supporting Floor over Unload System

Table below shows when to install a line of Double Super Supports between clutch rod and unload tube, depending on tube diameter, type of floor support used in bin, and support spacing.

UNLOAD DIA.	TYPE OF FLOOR SUPPORT	
	SUPERWAVES	Z-POSTS
6"	12" to 20"	24" to 40"
8"	14" to 22"	28" to 44"
10"	16" to 24"	32" to 48"

Table below shows when to install a line of Double Super Supports on each side of unload tube without bridging, depending on tube diameter, type of floor support used in bin, and support spacing.

UNLOAD DIA.	TYPE OF FLOOR SUPPORT	
	SUPERWAVES	Z-POSTS
6"	8" to 12"	16" to 24"
8"	10" to 14"	20" to 28"
10"	12" to 16"	24" to 32"

Table below shows when to use bridging over unload tube, depending on tube diameter, type of floor support used in bin, and support spacing.

UNLOAD DIA.	TYPE OF FLOOR SUPPORT	
	SUPERWAVES	Z-POSTS
6"	<8"	<16"
8"	<10"	<20"
10"	<12"	<24"

Supporting Floor over U-Trough

Fig. 12 shows typical use of Double Super Supports for U-Trough unload system with SuperWave Supports at 22" spacing. Drawing also shows bridging over trough if spacing of SuperWave or Super Supports is less than 16" or if spacing of Z-Posts is less than 32".

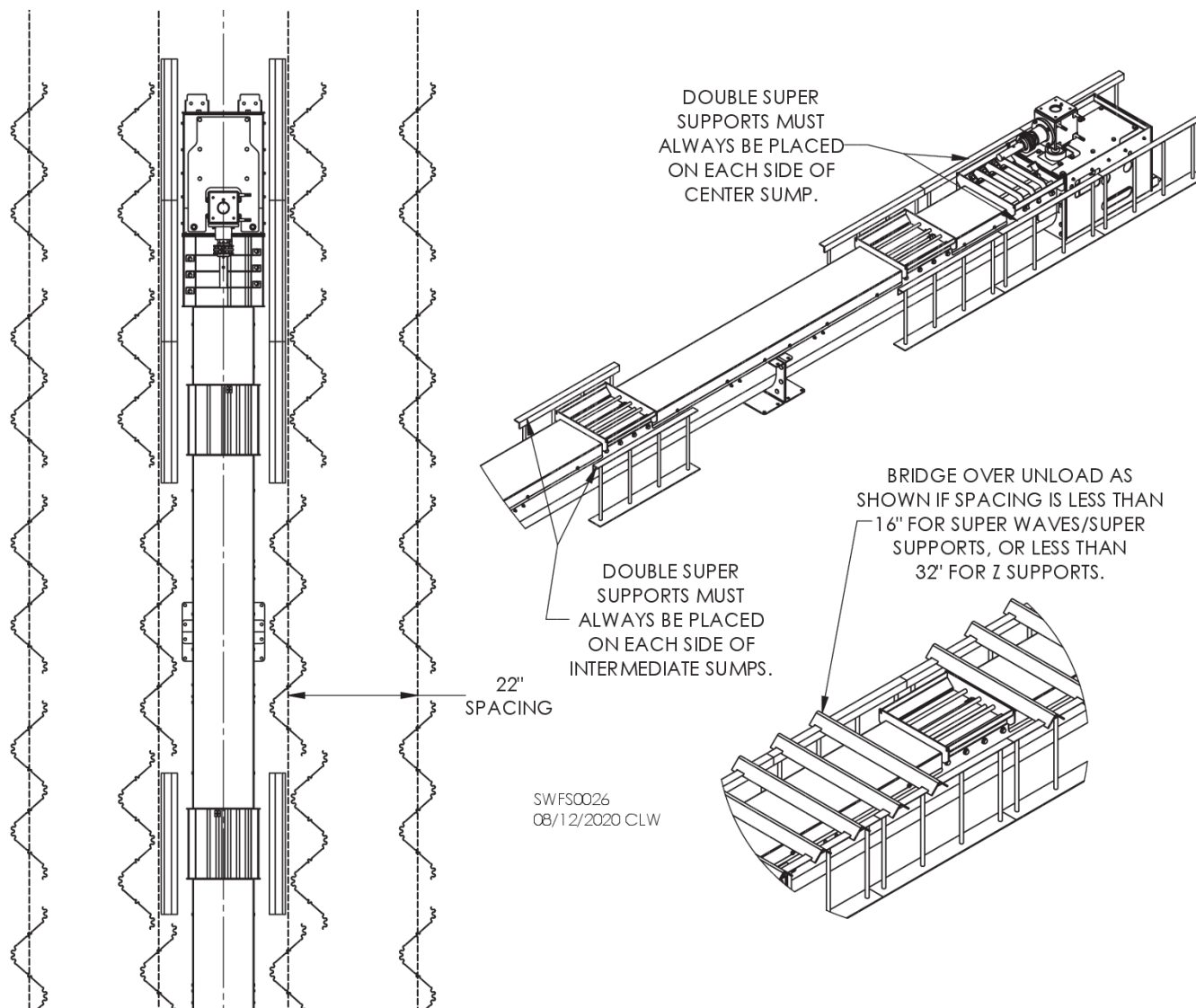


Fig. 12 – Typical placement of Double Super Supports & bridging for U-Trough

If using SuperWave Supports, install a line of Double Super Supports on each side of trough if required floor support spacing (from applicable table) is 16" to 20". If using Z-posts, install a line of Double Super Supports on each side of unload if required floor support spacing (from applicable table) is 32" to 40".

If using SuperWave Supports, use bridging if required spacing (from applicable table) is less than 16". If using Z-posts, use bridging if required spacing (from applicable table) is less than 32".

Supporting Floor over Drag Conveyor

Fig. 13 shows typical use of Double Super Supports and bridging along drag conveyor with SuperWave Supports at 22" spacing.

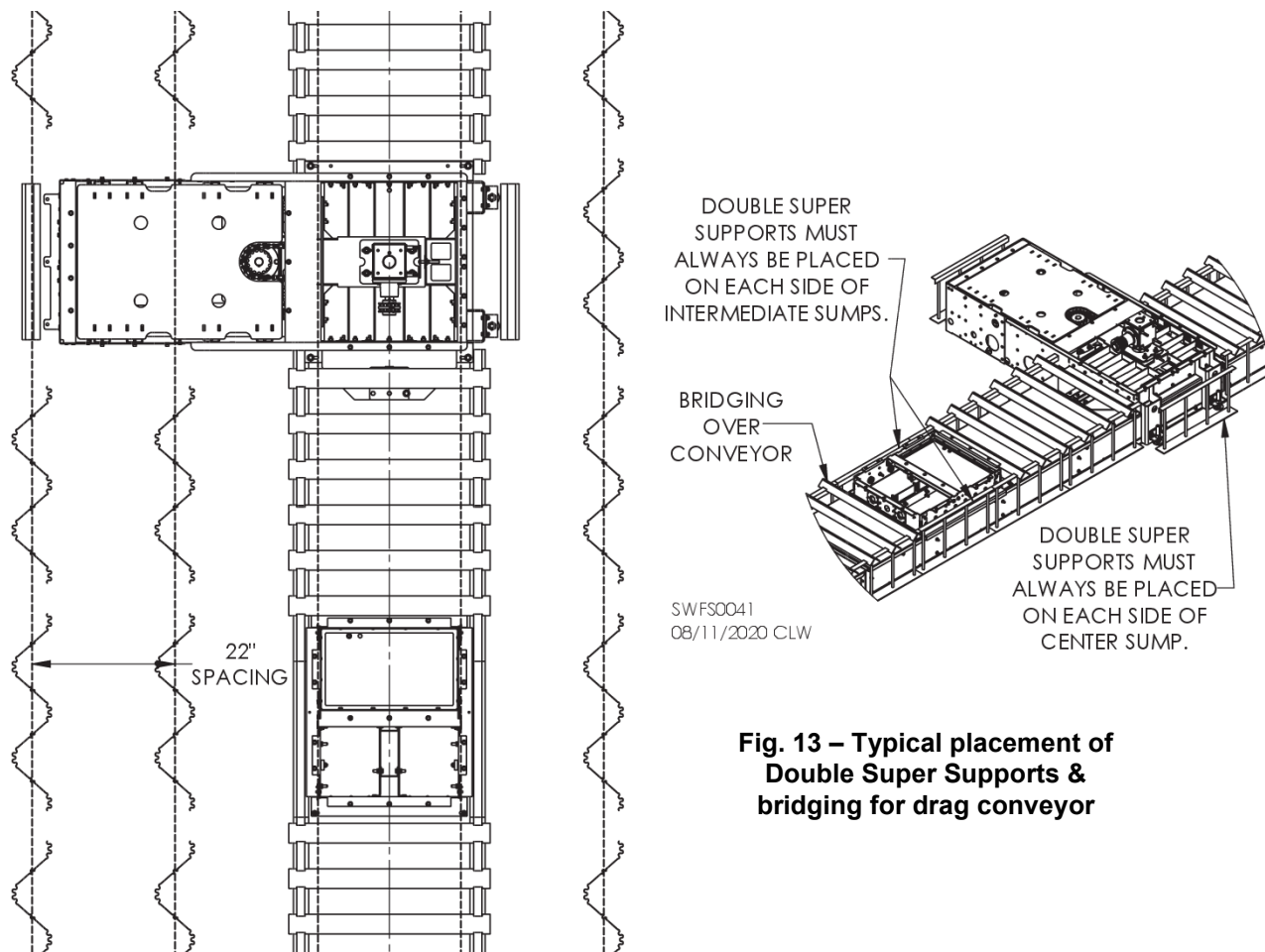


Fig. 13 – Typical placement of Double Super Supports & bridging for drag conveyor

Table below shows when to install a line of Double Super Supports without bridging on each side of conveyor, depending on conveyor width, type of floor support used in bin, and support spacing.

UNLOAD DIA.	TYPE OF FLOOR SUPPORT	
	SUPERWAVES	Z-POSTS
9"	18" to 21"	36" to 42"
12"	21" to 24"	42" to 48"
16"	25" to 28"	50" to 56"
21"	30" to 33"	60" to 66"

Table below shows when to use bridging over conveyor, depending on conveyor width, type of floor support used in bin, and support spacing.

UNLOAD DIA.	TYPE OF FLOOR SUPPORT	
	SUPERWAVES	Z-POSTS
9"	<18"	<36"
12"	<21"	<42"
16"	<25"	<50"
21"	<30"	<60"

Supporting Floor over Chain Loop Conveyor

Fig. 14 shows typical use of Double Super Supports for Chain Loop Conveyor unload system with SuperWave Supports at 18" spacing. Drawing also shows bridging over center sump gate.

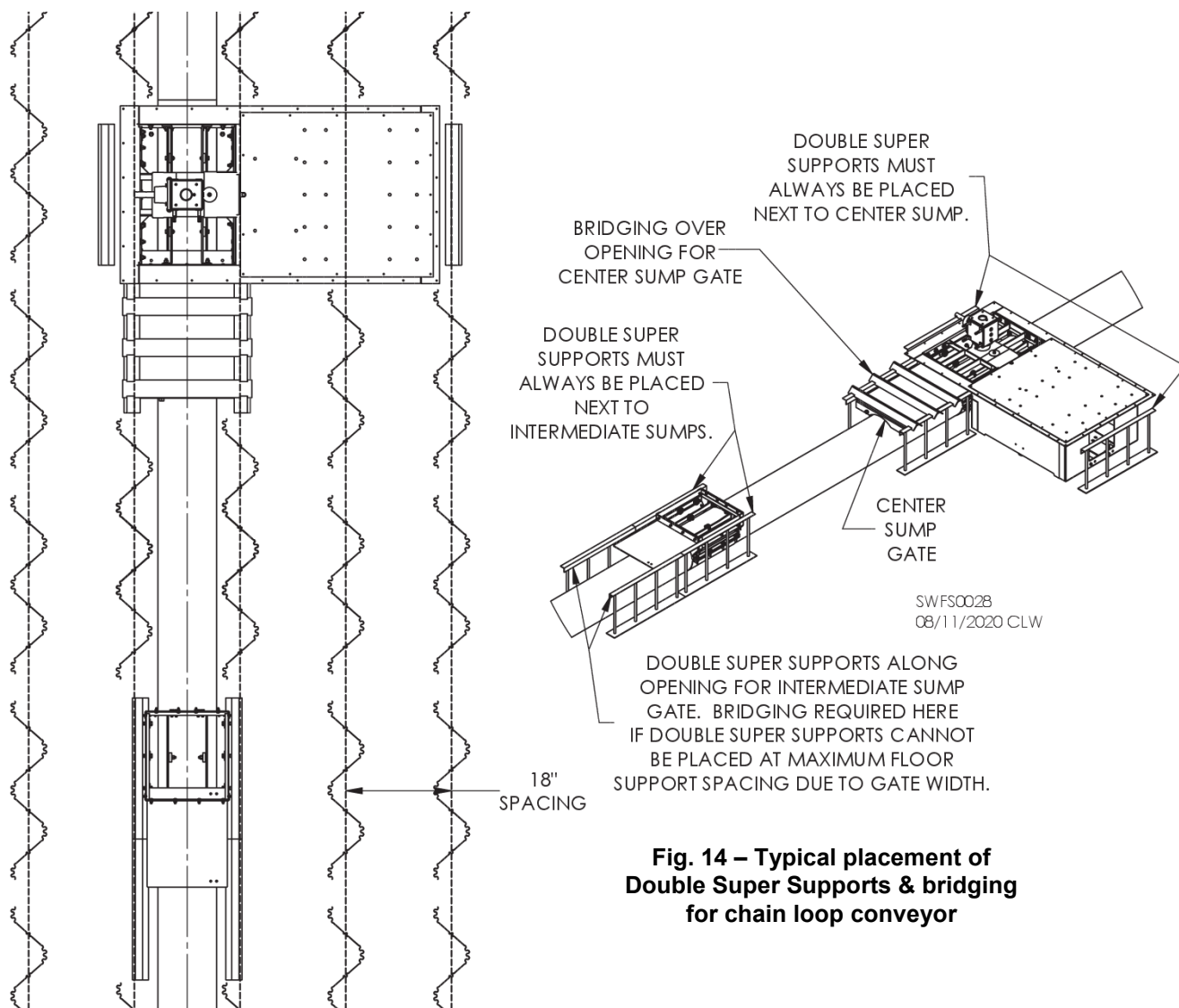


Fig. 14 – Typical placement of Double Super Supports & bridging for chain loop conveyor

Table below shows when to install Double Super Supports on either side of center sump gate opening without bridging, depending on tube diameter, type of floor support used in bin, and support spacing.

UNLOAD DIA.	TYPE OF FLOOR SUPPORT	
	SUPERWAVES	Z-POSTS
8"	19" to 22"	38" to 44"
10"	19" to 22"	38" to 60"
12"	23" to 26"	46" to 52"

Table below shows when to use bridging over center sump gate opening, depending on tube diameter, type of floor support used in bin, and support spacing.

UNLOAD DIA.	TYPE OF FLOOR SUPPORT	
	SUPERWAVES	Z-POSTS
8"	<19"	<38"
10"	<19"	<38"
12"	<23"	<46"

Supporting Floor over Unload System

Table below shows when to use bridging over intermediate sump gate opening, depending on tube diameter, type of floor support used in bin, and support spacing.

UNLOAD DIA.	TYPE OF FLOOR SUPPORT	
	SUPERWAVES	Z-POSTS
8"	<17"	<34"
10"	<17"	<34"
12"	<19"	<38"

Table below shows when to install a line of Double Super Supports on each side of unload tube without bridging, depending on tube diameter, type of floor support used in bin, and support spacing.

UNLOAD DIA.	TYPE OF FLOOR SUPPORT	
	SUPERWAVES	Z-POSTS
8"	11" to 14"	22" to 28"
10"	13" to 16"	26" to 32"
12"	15" to 18"	30" to 36"

Table below shows when to use bridging over unload tube, depending on tube diameter, type of floor support used in bin, and support spacing.

UNLOAD DIA.	TYPE OF FLOOR SUPPORT	
	SUPERWAVES	Z-POSTS
8"	<11"	<20"
10"	<13"	<26"
12"	<15"	<30"

General Advice

If unload system and all open sump gates fit between floor supports that are spaced as required in this manual, then no other supports are needed to support flooring over unload system.

If unload system and/or an open sump gate will not fit between floor supports spaced as required in this manual, a Double Super Support may be used in place of interfering SuperWave or Z-Post support.

If a Double Super Support substituted for a SuperWave or Z-Post support would interfere with an unload system or sump gate, bridging is required.

If bridging is required, check lower table on Page 18 to see if one bridge with Double Super Supports is OK, or if two bridges with Heavy Duty Double Super Supports are needed for each floor plank.

Fig. 15 shows SuperWave and Z-Post floor supports' width of 6". When properly placed on support lines there is 3" on each side. If there will be interference with unload system or a sump gate, a narrower Double Super Support (1-1/4" wide at top) can be substituted.

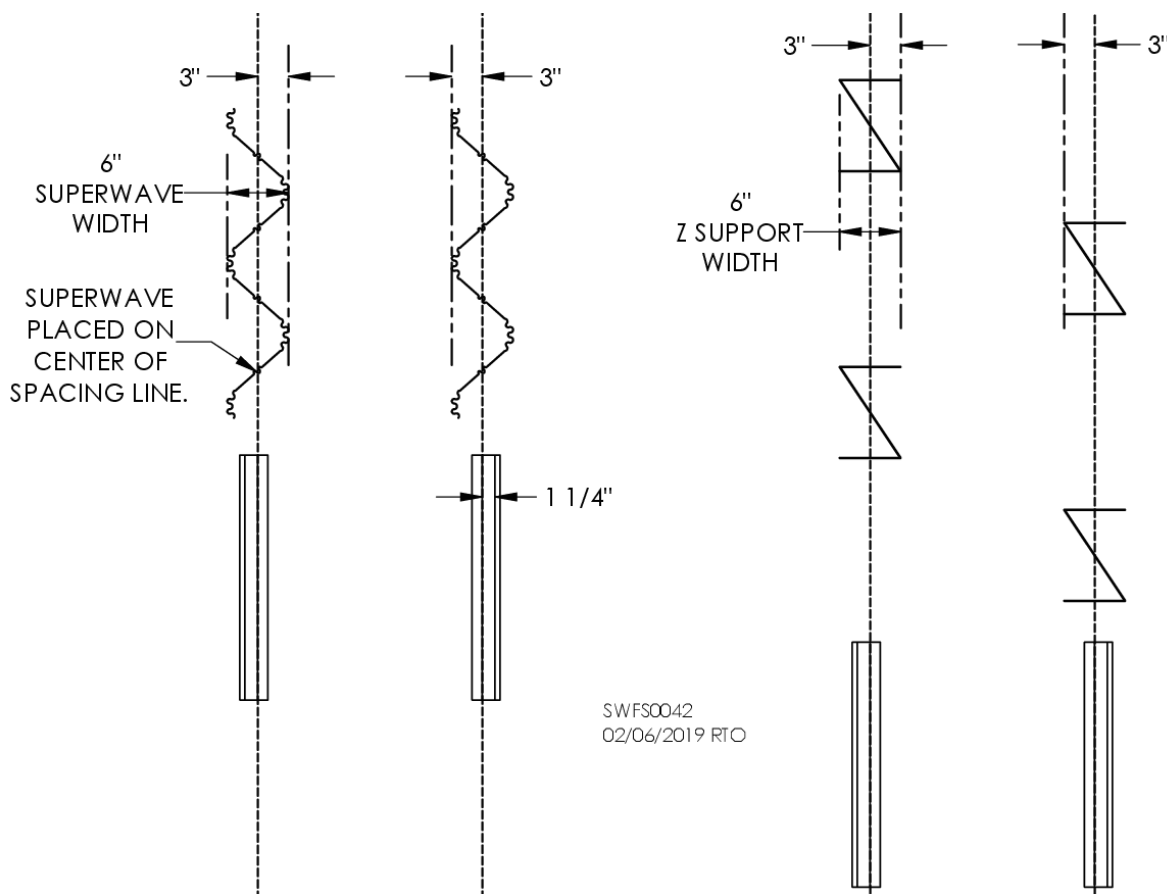


Fig. 15 – Widths of SuperWave, Z-Post and Double Super Supports

SUPPORTING FLOOR IN FRONT OF FAN

Place four Double Super Supports at each fan transition to minimize airflow resistance. Exact placement will vary depending on fan location and floor support spacing. Use Double Super Supports to maintain floor support spacing and comply with plank overhang limits. Fig. 16 shows Double Super Supports used instead of SuperWave supports. Use Half SuperWave supports as needed to comply with plank overhang limits.

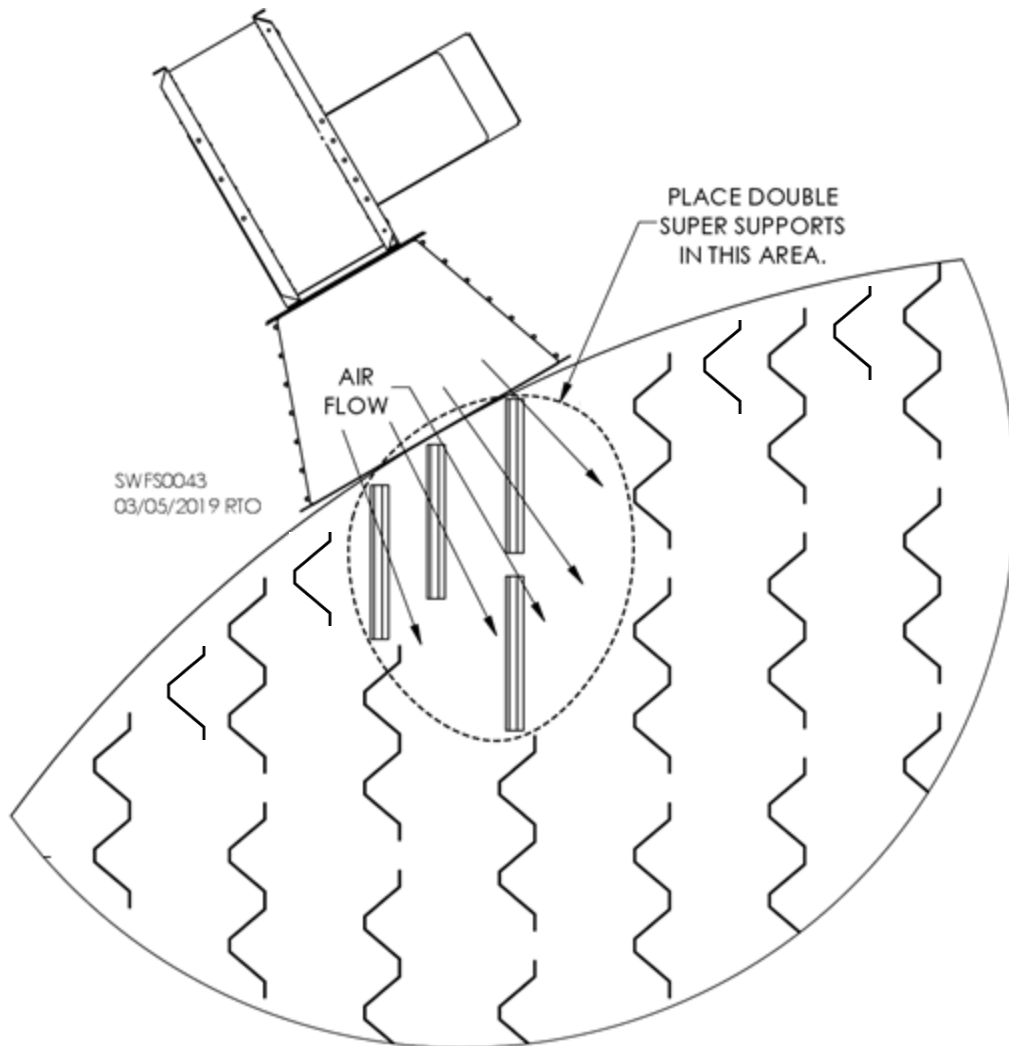


Fig. 16 – Supporting floor in front of fan

SUPPORTING FLOOR PLANKS AT SPLITS

See table below for maximum unsupported overhang of floor plank at split, depending on bin size. Maximums apply to HD Perf. floor planks, no matter which type of supports are used in bin.

If either floor plank at split has a longer unsupported overhang, additional supports will be needed. See Fig. 17.

Install SuperWave supports under plank split lines.

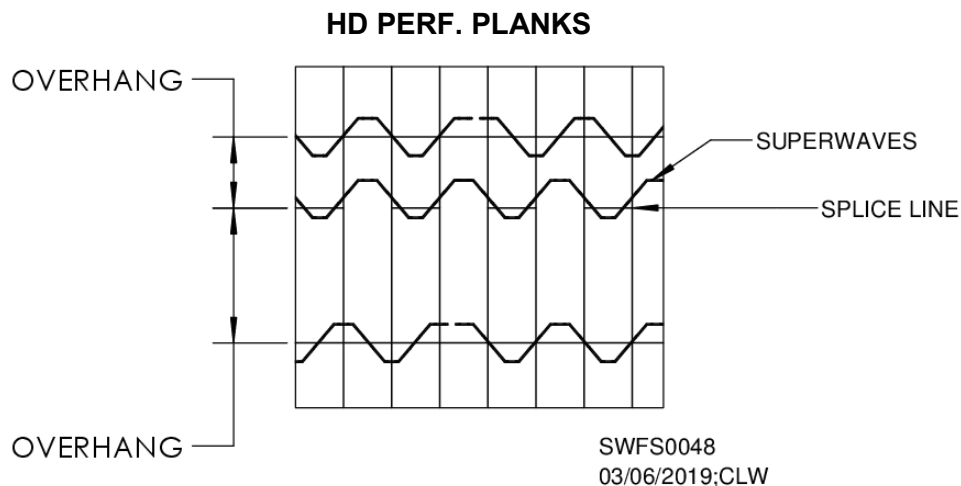


Fig. 17 – Supporting floor planks at splits

BIN DIA.	# OF RINGS	
	3-16	17-24
≤21'	7"	4"
21' 1" - 30'	7"	4"
30' 1" - 48'	7"	4"
48' 1" - 78'	7"	4"

Max. overhang at split

INSTALLING SPLIT PLANKS AT CENTER SUMP

To limit use of short pieces of flooring that can be difficult to support, follow instructions below for split-plank floors in bins 36' to 75' dia. Split lines on each side of center sump will be farther apart than original split lines. Beginning at center sump, cut planks as follows:

1. Cut "A" plank in half. Use halves as outermost segments of split plank. See Fig. 18.
2. Measure distances between sump and inner ends of "A" planks. Cut "B" plank to fit between sump and ends of "A" plank segments just installed.
3. For next plank, cut "B" plank in half. Use halves as outermost segments of split plank.
4. Measure distances between sump and inner ends of "B" planks. Cut "A" plank to fit between sump and ends of "B" plank segments just installed.
5. Repeat Steps 1-4 until past sump, then install planks as usual.

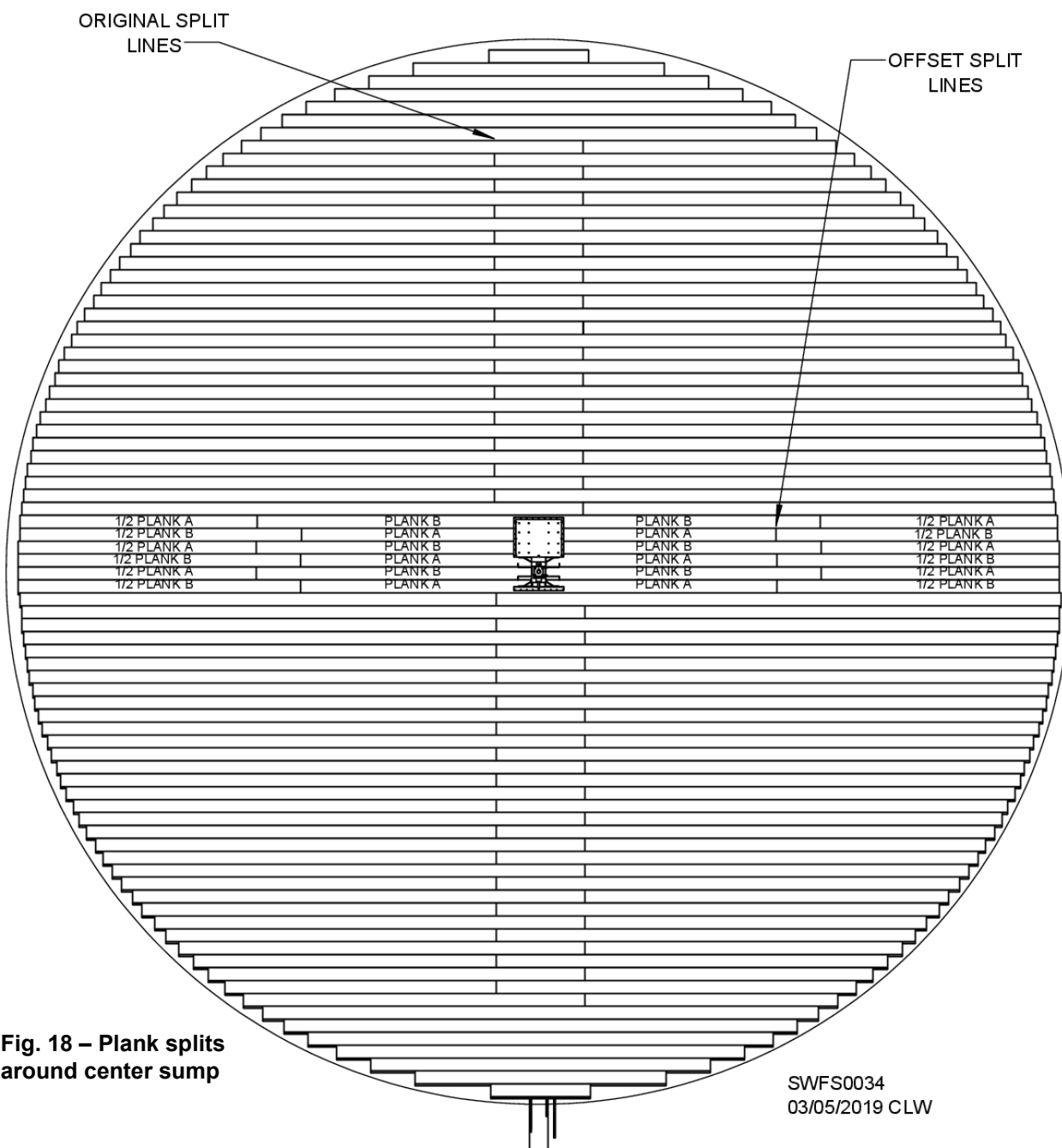


Fig. 18 – Plank splits around center sump

SWFS0034
03/05/2019 CLW

FLOOR PLANK SPLICING

If bin floor plank is made up of two or more pieces, each joint must be spliced.

Using self-drilling screws, join two pieces of floor plank by fastening perforated splice as shown in Fig. 19.

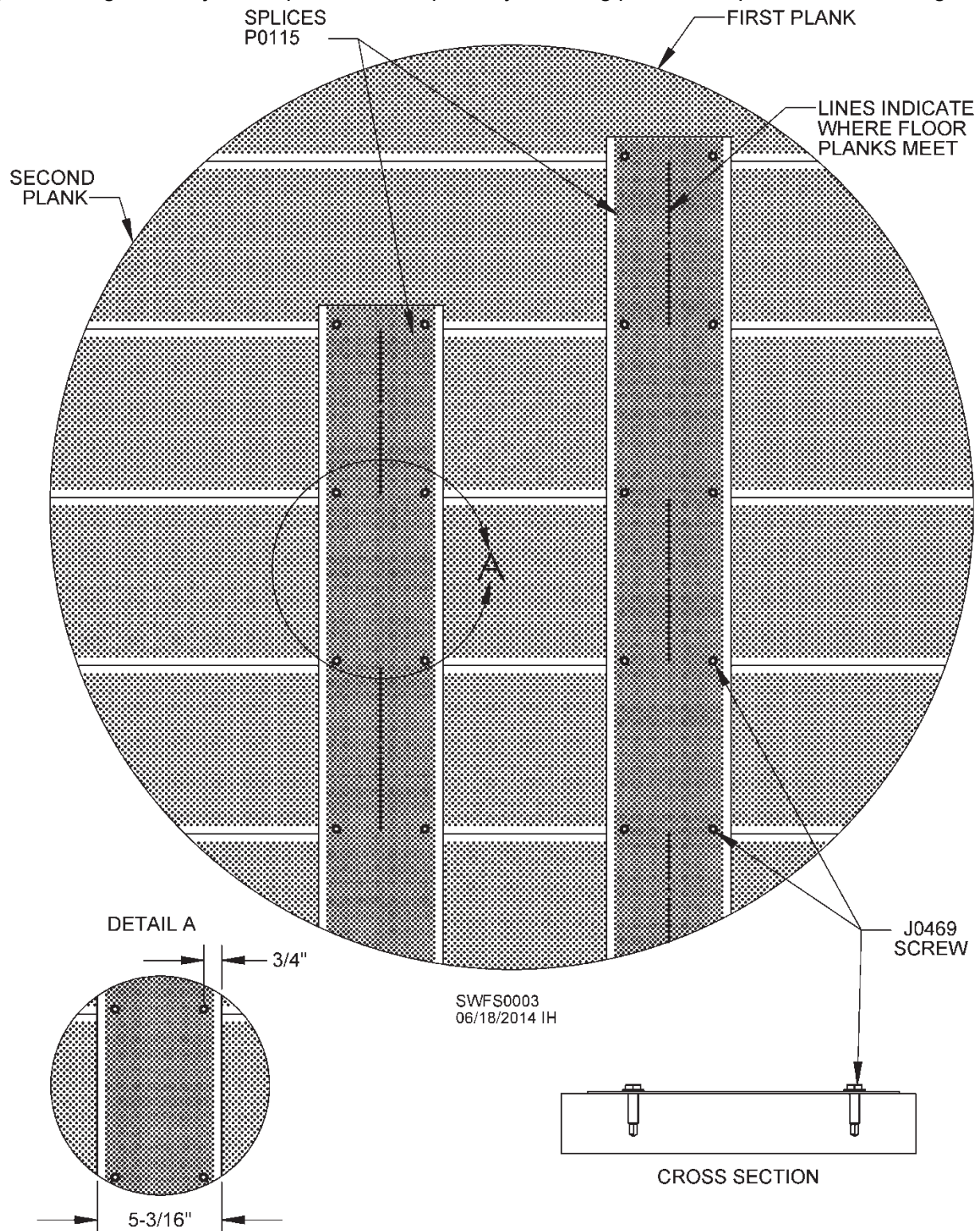


Fig. 19 – Splicing floor planks

FLASHING INSTALLATION

If sweep auger will be used in bin, flashing must be overlapped as shown in Fig. 20 so that sweep wheel will "climb up" flashing sections as sweep travels clockwise around bin. This will prevent wheel from catching on edges of flashing. Reverse overlap if sweep will run counterclockwise.

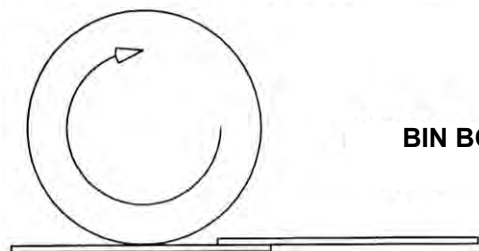
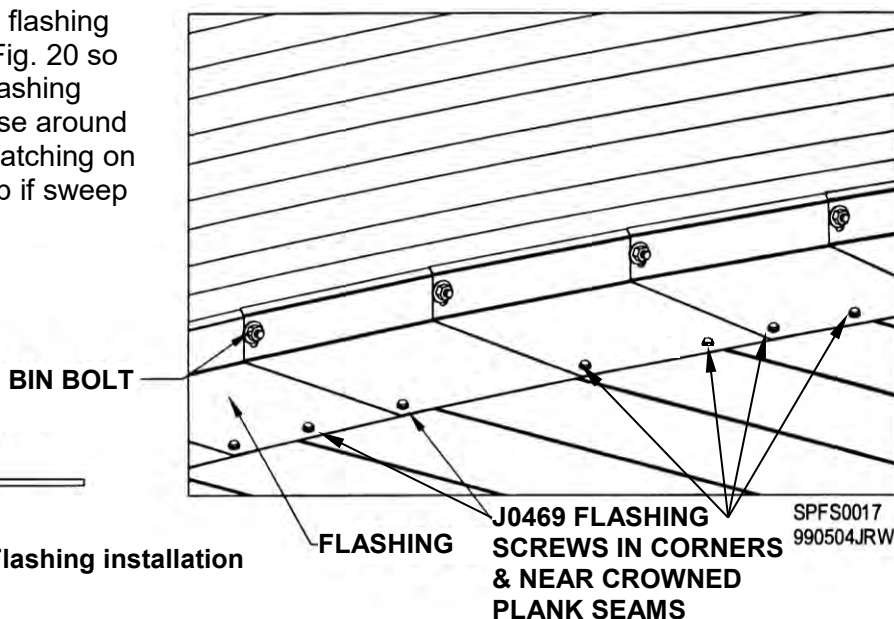


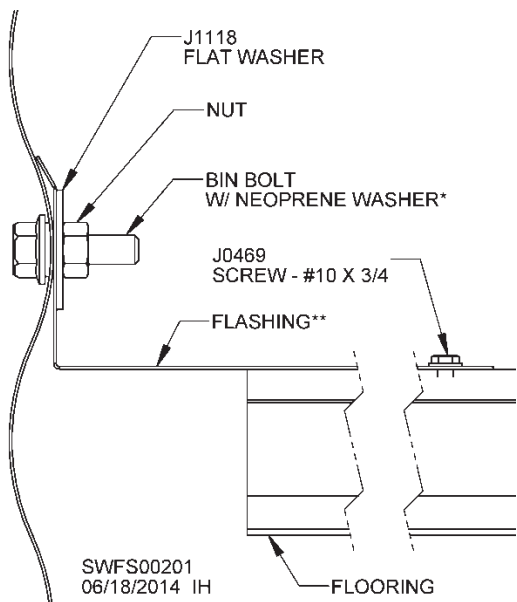
Fig. 20 – Flashing installation



Install a #10 x 3/4" flashing screw (J0469) at corner of each piece of flashing so screw goes through two pieces of flashing and into flooring. See Fig. 20. Install an additional screw if two crowned planks meet more than 2" from seam between flashing pieces.

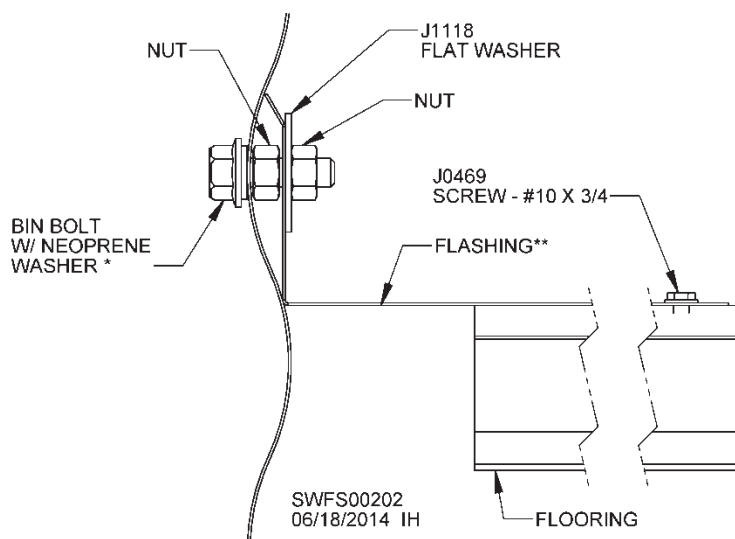
See Fig. 21 or Fig. 22 to properly bolt flashing to side of bin. Use pre-punched plenum holes if present. If not, drill holes in sidewall. **IMPORTANT:** Use 3/8" bolts. **NOTE:** If flashing was ordered pre-punched for Airways, pieces that are not pre-punched go under bin door.

Fig. 21 – Bolting on hill



SWFS00201
06/18/2014 IH

Fig. 22 – Bolting in valley



SWFS00202
06/18/2014 IH

***Bin bolts with neoprene washers not included with flashing.**

Locating & Installing Floor Planks

Included with each of the following floor plank layouts are instructions for locating planks. Please read them carefully before beginning floor assembly.

See applicable floor support table for spacing and total number of supports based on bin eave height. Table for Super Supports is on Page 11 and table for SuperWave Supports is on Page 15.

Place supports under each plank and install according to applicable instructions. See Pages 14 and 27 to ensure there is adequate support under ends of planks.

Floors in 36', 42' and 48' dia. bins can be ordered split or non-split. Floors in bins larger than 48' in diameter are all split-plank floors.

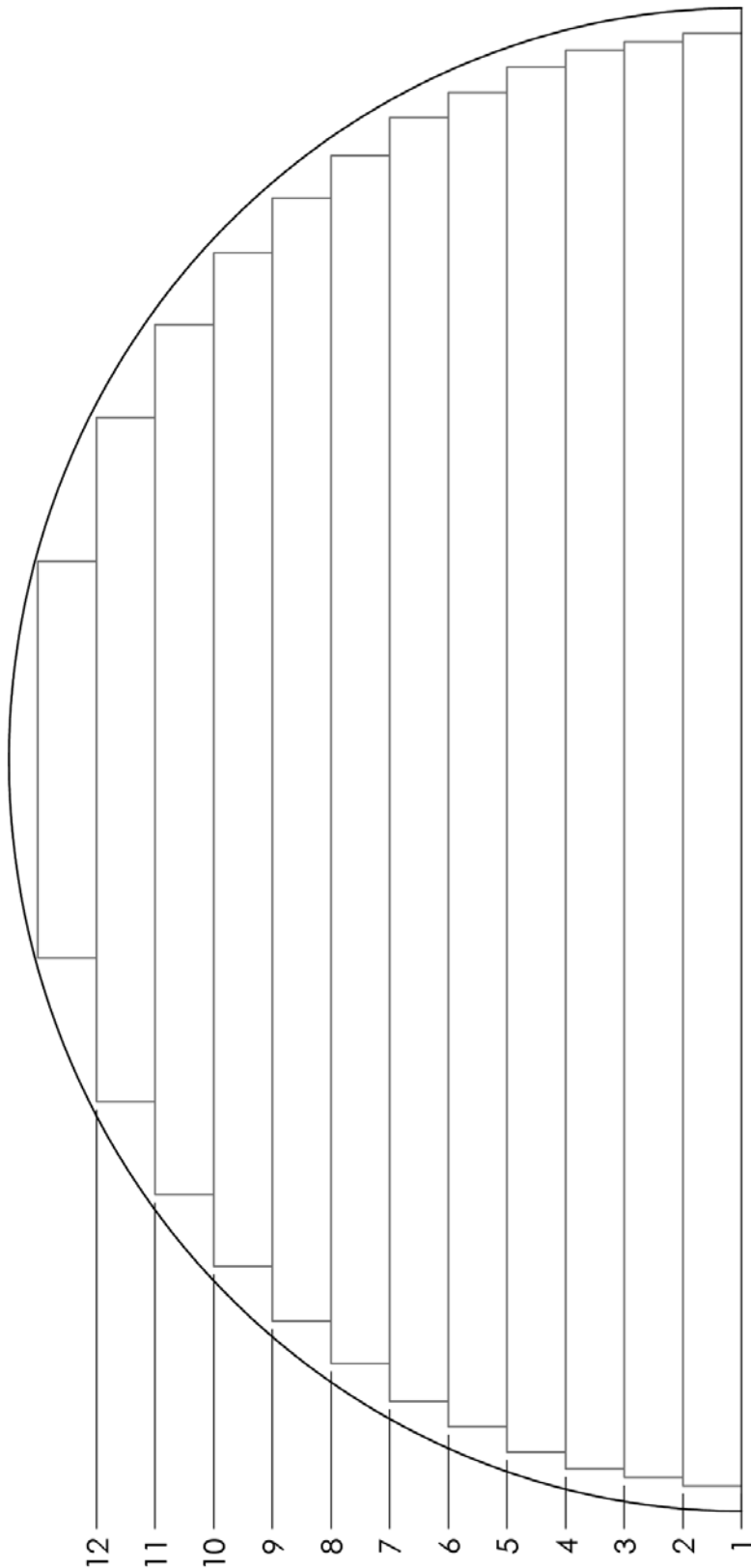
The following notes apply to split-plank floors in bins 36' diameter and larger:

- Lengths of split pieces are shown for each plank number.
- Locations of end-to-end seams in split planks must alternate as shown in plank layout drawing for bin. See Page 28 for moving plank splices farther from center sump.
- See Page 29 for plank splicing instructions.

There is only one plank "0" and two of all others (one on each side of centerline) for floors in bins 18', 24', 30', 36' (split), 75' and 105' diameter:

LAYOUT & LOCATION OF HD PERF. FLOOR PLANKS

15' DIA. BIN PLANK LAYOUT



SWFS0051
05/10/2019 CLW

LOCATING PLANKS FOR 15' DIA. BIN

A 15' floor is shipped in two identical stacks.

See layout on previous page. Plank closest to sidewall (Plank 12, measuring 3' 11") is starter plank.

Lay out planks of Stack 1. Install in descending order from Plank 12 to Plank 1, then open Stack 2 and work in ascending order on other side of bin.

See Page 31 for important notes.

15' FLOOR

Stacks 1 & 2

Plank # Length

Top of Stack

12	3'11"
11	6'9"

10	8'7"
9	10'0"

8	11'1"
7	11'11"

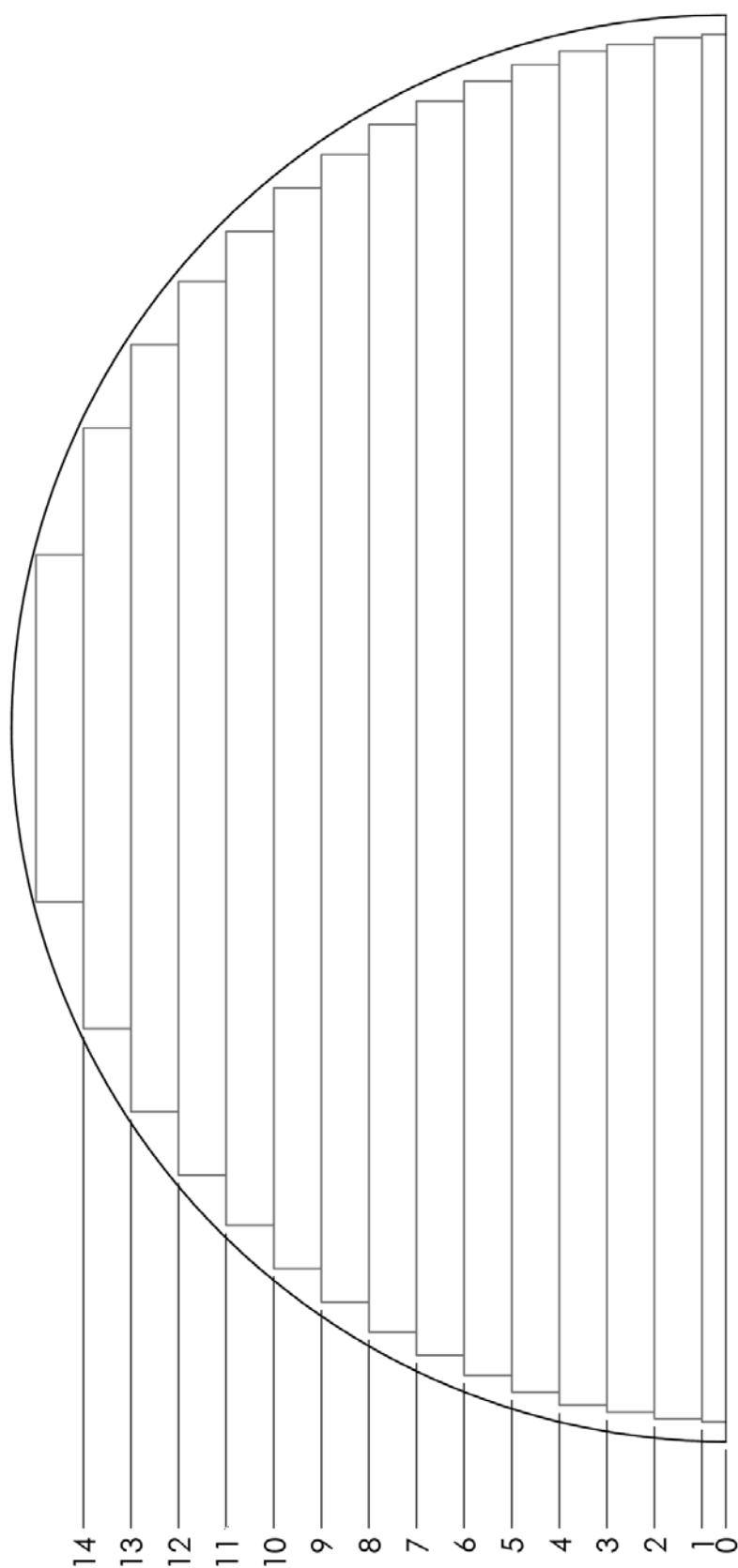
6	12'8"
5	13'2"

4	13'8"
3	14'0"

2	14'2"
1	14'4"

Bottom of Stack

18' DIA. BIN PLANK LAYOUT



SWFS0052
05/10/2019 CLW

Layout & Location of Floor Planks

LOCATING PLANKS FOR 18' DIA. BIN

An 18' floor is shipped in two stacks.

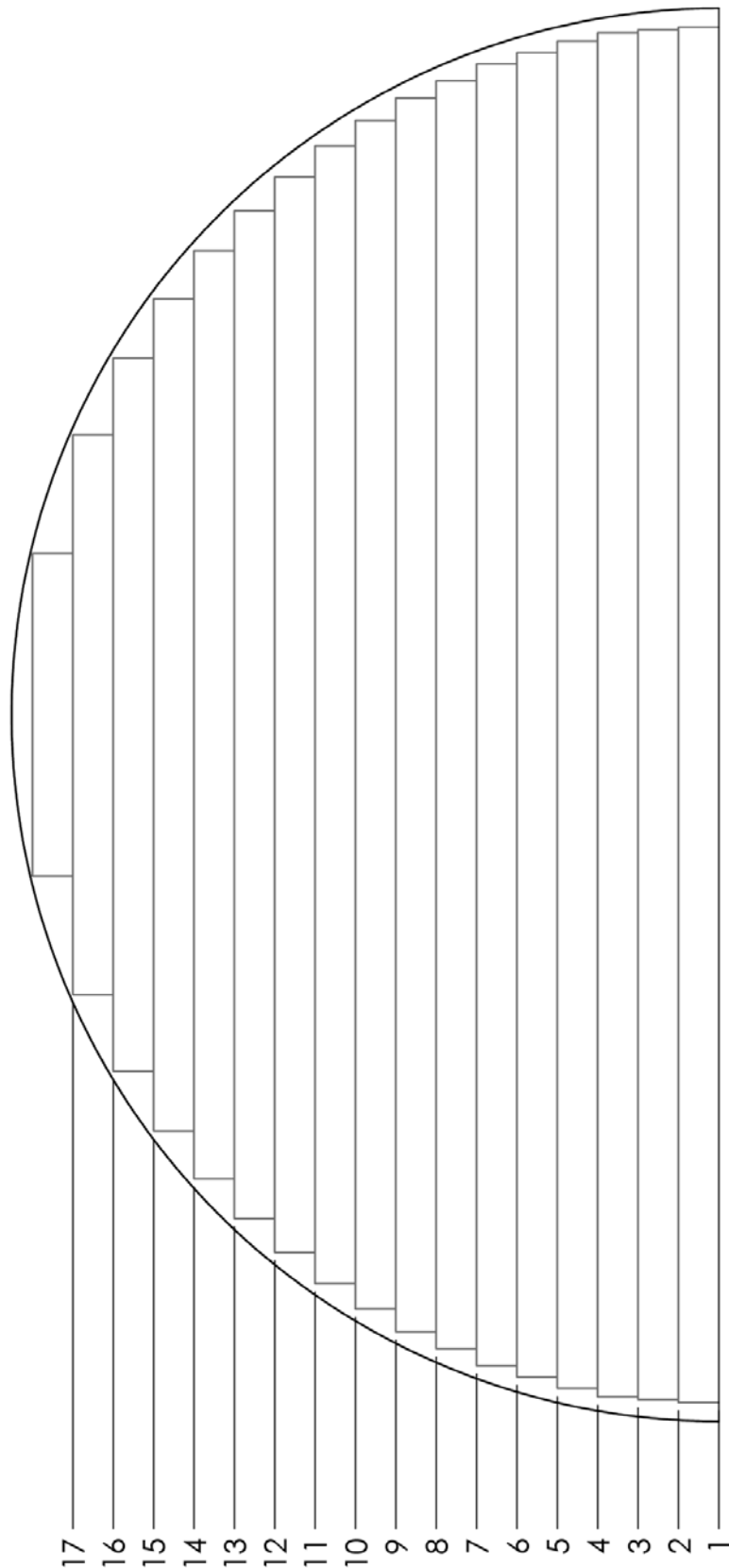
1. Label stacks as shown below by measuring top plank of each stack.
2. See layout on previous page. Plank closest to sidewall (Plank 14, measuring 4' 4") is starter plank. There is one in each stack and it is the shortest plank in each.
3. Lay out planks of Stack 1. Install in descending order from Plank 14 to Plank 0, then open Stack 2 and work in ascending order on other side of bin.

See Page 31 for important notes.

18' FLOOR

Stack 1		Stack 2	
Plank #	Length	Plank #	Length
Top of Stack			
12	9'7"	14	4'4"
11	11'2"	13	7'6"
14	4'4"	12	9'7"
13	7'6"	11	11'2"
10	12'5"	10	12'5"
9	13'6"	9	13'6"
8	14'4"	8	14'4"
7	15'1"	7	15'1"
6	15'8"	6	15'8"
5	16'2"	5	16'2"
4	16'7"	4	16'7"
3	16'11"	3	16'11"
2	17'1"	2	17'1"
1	17'3"	1	17'3"
0	17'4"	0	17'3"
Bottom of Stack			

21' DIA. BIN PLANK LAYOUT



SWFS0053
05/10/2019 CLW

LOCATING PLANKS FOR 21' DIA. BIN

A 21' floor is shipped in two identical stacks.

See layout on previous page. Plank closest to sidewall (Plank 17, measuring 4' 9") is starter plank.

Lay out planks of Stack 1. Install in descending order from Plank 17 to Plank 1, then open Stack 2 and work in ascending order on other side of bin.

See Page 31 for important notes.

21' FLOOR

Stacks 1 & 2
Plank # Length

Top of Stack

15	10'6"
14	12'3"

17	4'9"
16	8'3"
13	13'8"

12	14'10"
11	15'10"

10	16'9"
9	17'6"

8	18'2"
7	18'8"
6	19'2"

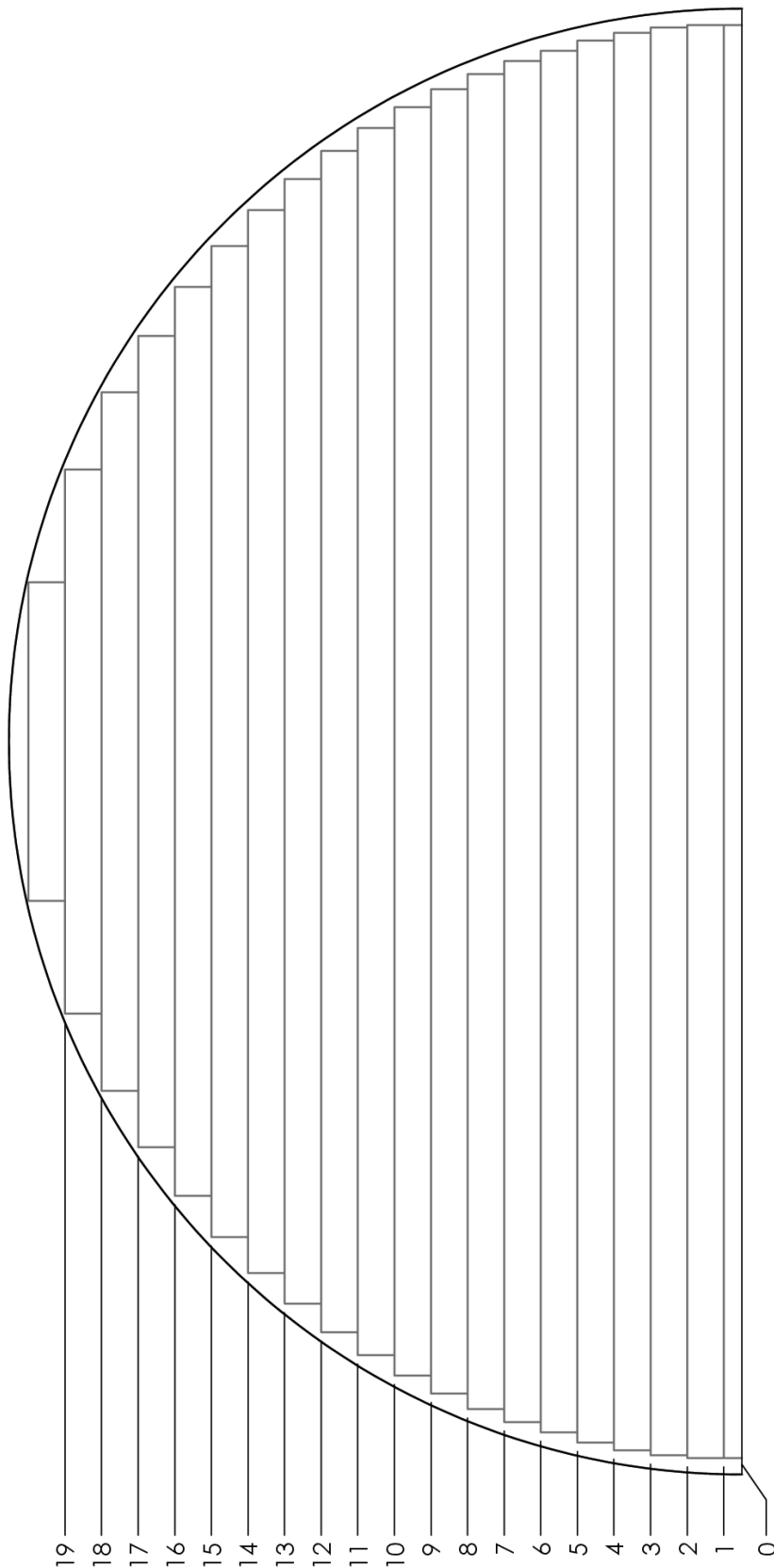
5	19'6"
---	-------

4	19'10"
3	20'1"

2	20'2"
1	20'3"

Bottom of Stack

24' DIA. BIN PLANK LAYOUT



SWFS0054
05/10/2019 CLW

Layout & Location of Floor Planks

LOCATING PLANKS FOR 24' DIA. BIN

A 24' floor is shipped in two stacks.

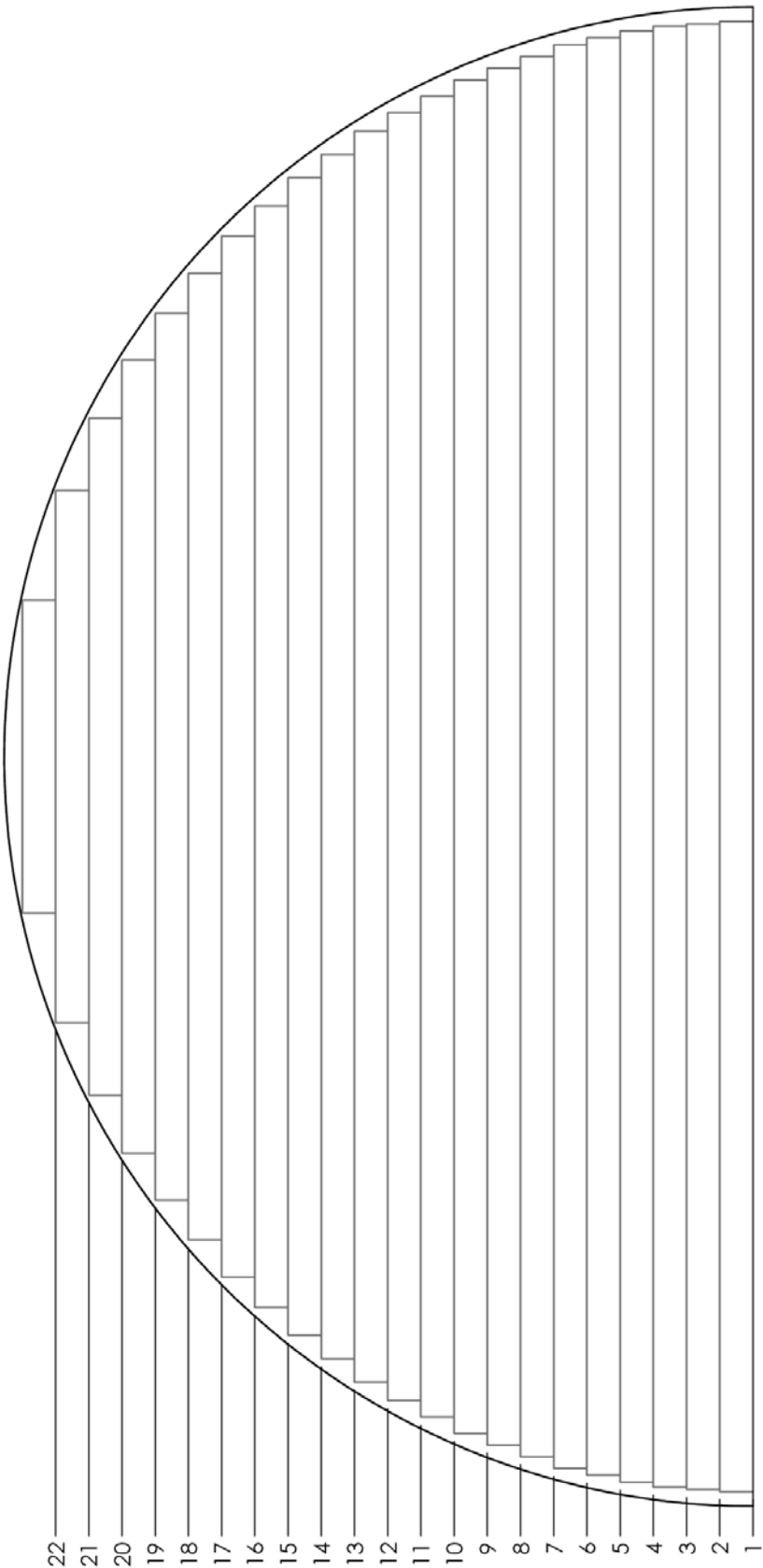
1. Label stacks as shown below by measuring top plank of each stack.
2. See layout on previous page. Plank closest to sidewall (Plank 19, measuring 5' 2") is starter plank. There is one in each stack and it is the shortest plank in each.
3. Lay out planks of Stack 1. Install in descending order from Plank 19 to Plank 0, then open Stack 2 and work in ascending order on other side of bin.

See Page 31 for important notes.

24' FLOOR

Stack 1		Stack 2	
Plank #	Length	Plank #	Length
Top of Stack			
15	14'9"	17	11'4"
14	16'1"	16	13'2"
13	17'3"	15	14'9"
12	18'3"	14	16'1"
19	5'2"	13	17'3"
16	13'2"	12	18'3"
11	19'2"	11	19'2"
18	8'10"	10	19'11"
17	11'4"	9	20'7"
9	20'7"	8	21'2"
10	19'11"	7	21'8"
8	21'2"	6	22'1"
7	21'8"	5	22'5"
6	22'1"	4	22'9"
5	22'5"	3	23'0"
4	22'9"	2	23'2"
3	23'0"	19	5'2"
2	23'2"	18	8'10"
1	23'3"	1	23'3"
0	23'3"		
Bottom of Stack			

27' DIA. BIN PLANK LAYOUT



SWFS0055
05/10/2019 CLW

Layout & Location of Floor Planks

LOCATING PLANKS FOR 27' DIA. BIN

A 27' floor is shipped in two identical stacks.

See layout on previous page. Plank closest to sidewall (Plank 22, measuring 5' 7") is starter plank.

Lay out planks of Stack 1. Install in descending order from Plank 22 to Plank 1, then open Stack 2 and work in ascending order on other side of bin.

See Page 31 for important notes.

27' FLOOR

Stacks 1 & 2
Plank # Length

Top of Stack

22	5'7"
21	9'6"

20	12'1"
19	14'2"

18	15'10"
17	17'3"

16	18'7"
15	19'8"

14	20'8"
13	21'6"

12	22'4"
11	23'0"

10	23'7"
9	24'2"

8	24'7"
7	25'0"

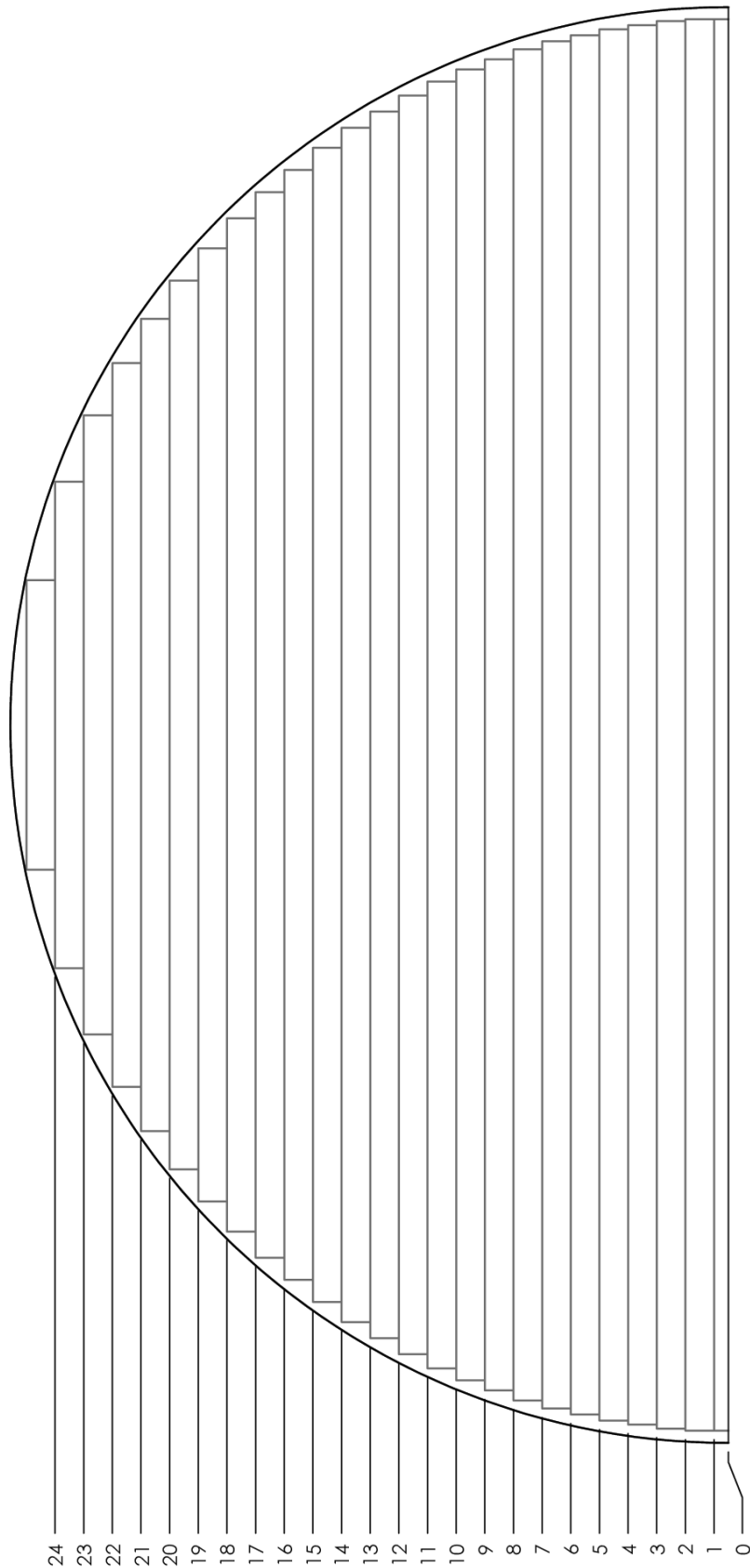
6	25'5"
5	25'8"

4	25'11"
3	26'1"

2	26'2"
1	26'3"

Bottom of Stack

30' DIA. BIN PLANK LAYOUT



SWFS0056
05/10/2019 CLW

LOCATING PLANKS FOR 30' DIA. BIN

A 30' floor is shipped in two stacks.

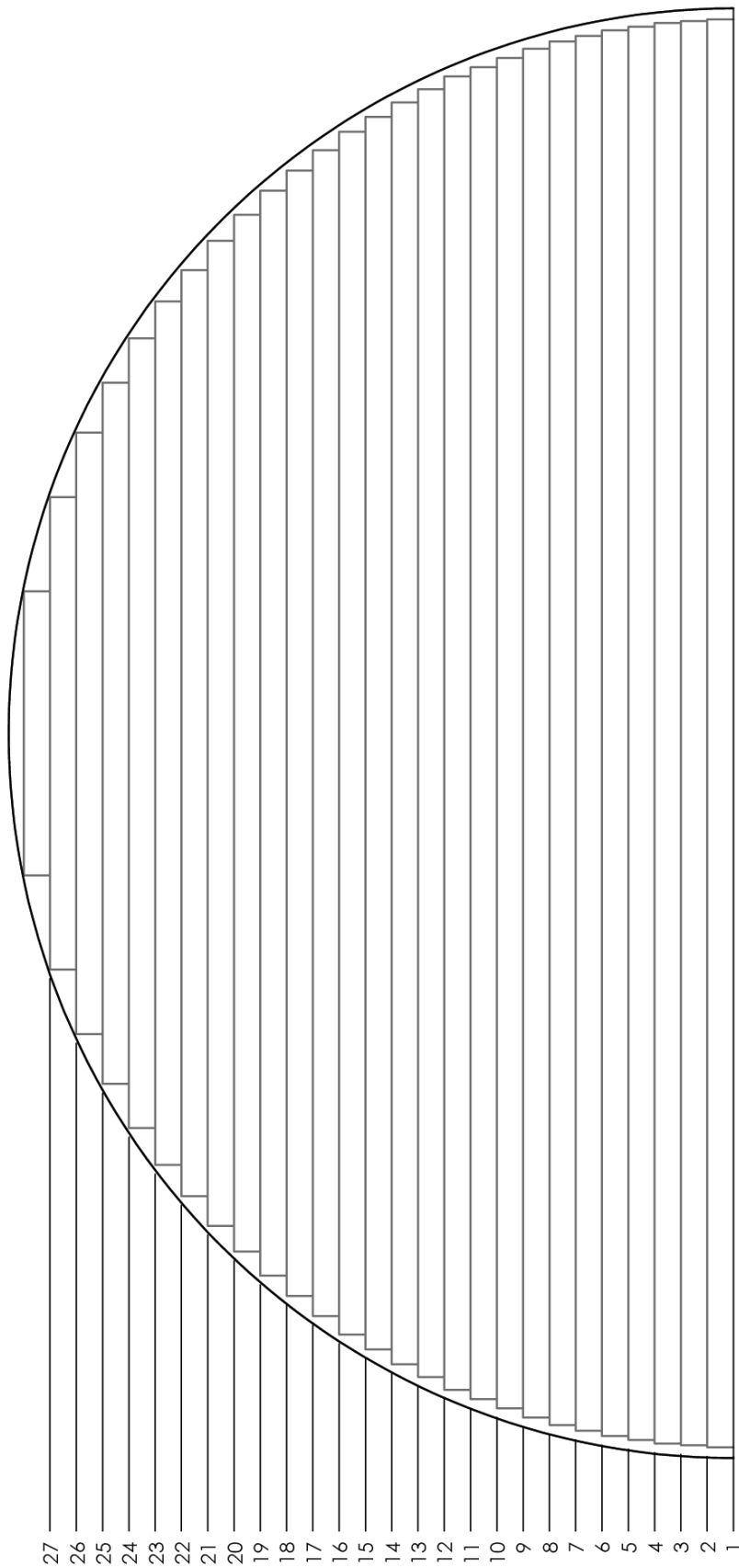
1. Label stacks as shown below by measuring top plank of each stack.
2. See layout on previous page. Plank closest to sidewall (Plank 24, measuring 6' 0") is starter plank.
3. Lay out planks of Stack 1. Install in descending order from Plank 24 to Plank 0, then open Stack 2 and work in ascending order on other side of bin.

See Page 31 for important notes.

30' FLOOR

Stack 1		Stack 2	
Plank #	Length	Plank #	Length
Top of Stack			
22	12'10"	24	6'0"
21	15'0"	23	10'1"
24	6'0"	22	12'10"
23	10'1"	21	15'0"
20	16'10"	20	16'10"
19	18'5"	19	18'5"
18	19'9"	18	19'9"
17	21'0"	17	21'0"
16	22'1"	16	22'1"
15	23'0"	15	23'0"
14	23'11"	14	23'11"
13	24'9"	13	24'9"
12	25'5"	12	25'5"
11	26'1"	11	26'1"
10	26'8"	10	26'8"
9	27'2"	9	27'2"
8	27'7"	8	27'7"
7	28'0"	7	28'0"
6	28'4"	6	28'4"
5	28'7"	5	28'7"
4	28'10"	4	28'10"
3	29'0"	3	29'0"
2	29'2"	2	29'2"
1	29'3"	1	29'3"
0	29'3"		
Bottom of Stack			

33' DIA. BIN PLANK LAYOUT



SWFS0057
05/10/2019 CLW

Layout & Location of Floor Planks

LOCATING PLANKS FOR 33' DIA. BIN

A 33' floor is shipped in four stacks.

1. Label stacks as shown below by measuring top plank of each stack.
2. See layout on previous page. Plank closest to sidewall (Plank 27, measuring 6' 5") is starter plank.
3. Lay out planks of Stacks 1 & 2. Install in descending order from Plank 27 to Plank 1, then open Stacks 3 & 4 and work in ascending order on other side of bin.

See Page 31 for important notes.

33' FLOOR

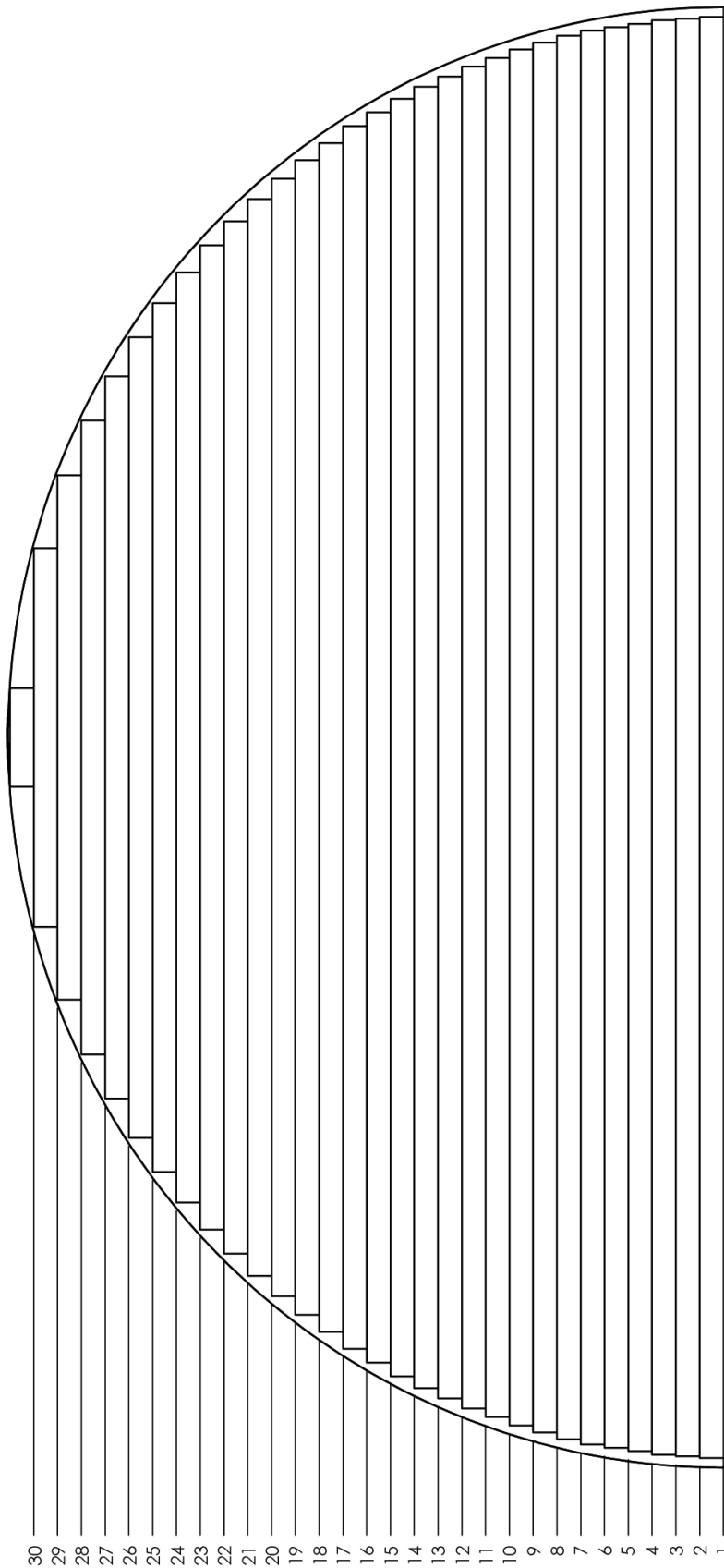
Stacks 1 & 3		Stacks 2 & 4	
Plank #	Length	Plank #	Length

Top of Stack

25	13'7"	21	20'11"
24	15'10"	20	22'3"
11	29'8"		
		19	23'5"
10	30'1"	18	24'6"
9	30'6"		
		27	6'5"
8	30'11"	22	19'6"
7	31'3"	16	26'4"
6	31'6"	17	25'5"
5	31'9"	15	27'2"
4	31'11"	14	27'10"
3	32'1"	13	28'6"
2	32'2"	26	10'8"
1	32'3"	23	17'10"
		12	29'1"
25	13'7"	21	20'11"

Bottom of Stack

36' DIA. BIN NON-SPLIT PLANK LAYOUT



SWFS0058
05/10/2019 CLW

Layout & Location of Floor Planks

LOCATING NON-SPLIT PLANKS FOR 36' DIA. BIN

A 36' non-split floor is shipped in four stacks.

1. Label stacks as shown below by measuring top plank of each stack.
2. See layout on previous page. Plank closest to sidewall (Plank 30, measuring 2' 5") is starter plank.
3. Lay out planks of Stacks 1 & 2. Install in descending order from Plank 30 to Plank 1, then open Stacks 3 & 4 and work in ascending order on other side of bin.

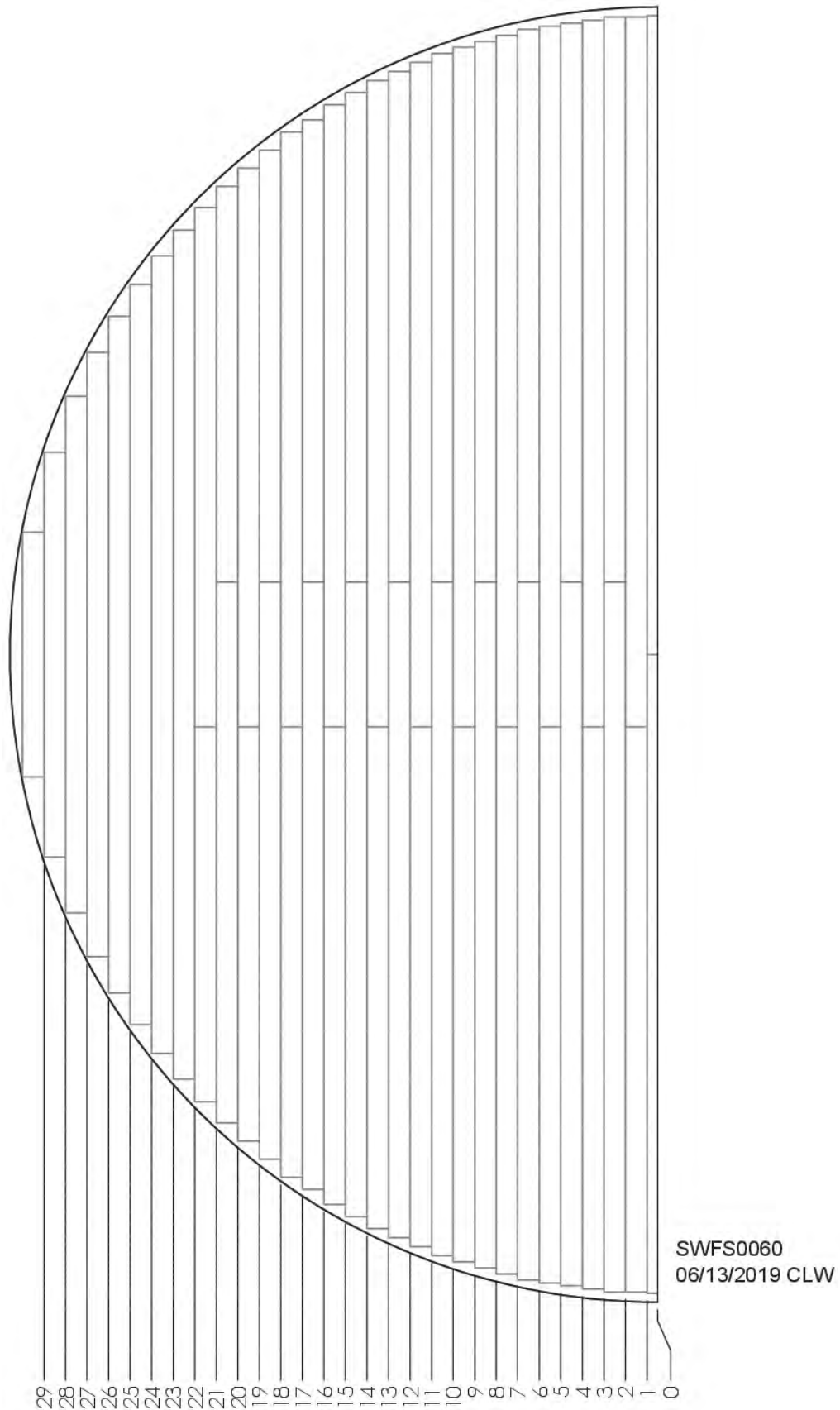
See Page 31 for important notes.

36' FLOOR

Stacks 1 & 3		Stacks 2 & 4	
Plank #	Length	Plank #	Length

<i>Top of Stack</i>			
14	31'3"	30	2'5"
13	31'10"	28	12'10"
		26	17'8"
12	32'4"		
11	32'10"	25	19'7"
		24	21'3"
10	33'3"		
9	33'8"	23	22'9"
		22	24'1"
8	34'0"		
7	34'4"	27	15'6"
		29	9'3"
6	34'7"	21	25'3"
5	34'9"		
		20	26'4"
4	34'11"	19	27'4"
3	35'1"		
		18	28'3"
2	35'2"	17	29'1"
1	35'3"		
		16	29'11"
		15	30'7"
<i>Bottom of Stack</i>			

36' DIA. BIN SPLIT PLANK LAYOUT



Layout & Location of Floor Planks

LOCATING SPLIT PLANKS FOR 36' DIA. BIN

A 36' split-plank floor is shipped in six stacks.

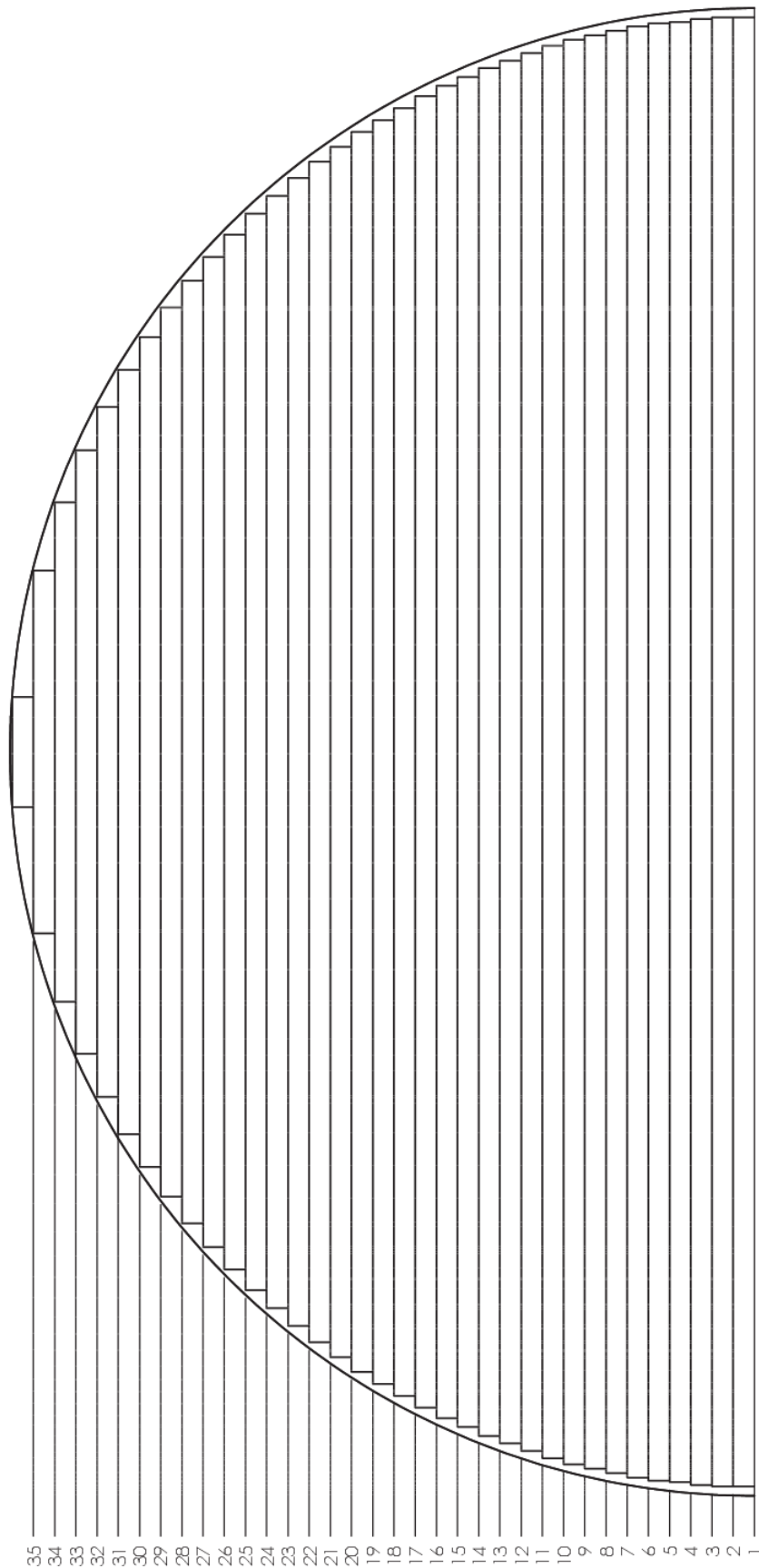
1. **Label stacks as shown below by measuring top plank of each stack.** There will be three different stacks – 1 through 3 – for each half of bin.
2. See layout on previous page. Plank closest to sidewall (Plank 29, measuring 6' 9") is starter plank. There is one in Stack 3 and one in Stack 5. It is shortest plank in each stack.
3. Lay out planks of Stacks 1-4. Install in descending order from Plank 29 to Plank 0. **NOTE:** Most planks are split, with sections A and B. Make sure to offset splices as shown on previous page. After reaching center of bin, install planks in ascending order on other side of bin.

See Page 31 for important notes.

36' SPLIT FLOOR

Stack 1		Stack 2		Stacks 3 & 5		Stacks 4 & 6	
Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length
<i>Top of Stack</i>							
0B	17'8"	25	18'8"	12B	13'11"	20A	14'8"
0A	17'8"	25	18'8"	12A	17'11"	21A	14'1"
7B	15'0"	7B	15'0"	11B	14'2"	18B	11'8"
7A	19'0"	7A	19'0"	11A	18'2"	18A	15'8"
6B	15'2"	6B	15'2"	10B	14'5"	17B	12'2"
6A	19'2"	6A	19'2"	10A	18'5"	17A	16'2"
5B	15'4"	5B	15'4"	9B	14'8"	27	14'3"
5A	19'4"	5A	19'4"	9A	18'8"	26	16'8"
4B	15'5"	4B	15'5"	8B	14'10"	16B	12'7"
4A	19'5"	4A	19'5"	8A	18'10"	16A	16'7"
3B	15'6"	3B	15'6"	13B	13'8"	15B	13'0"
3A	19'6"	3A	19'6"	29	6'9"	15A	17'0"
				24	20'5"		
2B	15'7"	2B	15'7"	20B	10'8"	14B	13'4"
2A	19'7"	2A	19'7"	21B	10'1"	14A	17'4"
1B	15'7"	1B	15'7"	23	22'0"	19A	15'2"
1A	19'7"	1A	19'7"			13A	17'8"
				19B	11'2"		
				28	11'2"		
				22	23'5"		
<i>Bottom of Stack</i>							

42' DIA. BIN NON-SPLIT PLANK LAYOUT



SWFS0061
05/10/2019 CLW

LOCATING NON-SPLIT PLANKS FOR 42' DIA. BIN

A 42' non-split floor is shipped in four stacks.

1. Label stacks as shown below by measuring top plank of each stack.
2. See layout on previous page. Plank closest to sidewall (Plank 35, measuring 3' 1") is starter plank. There is one in Stack 2 and one in Stack 4. It is shortest plank in each stack.
3. Lay out planks in Stacks 1 & 2. Install in descending order from Plank 35 to Plank 1, then open Stacks 3 & 4 and work in ascending order on other side of bin.

See Page 31 for important notes.

42' FLOOR

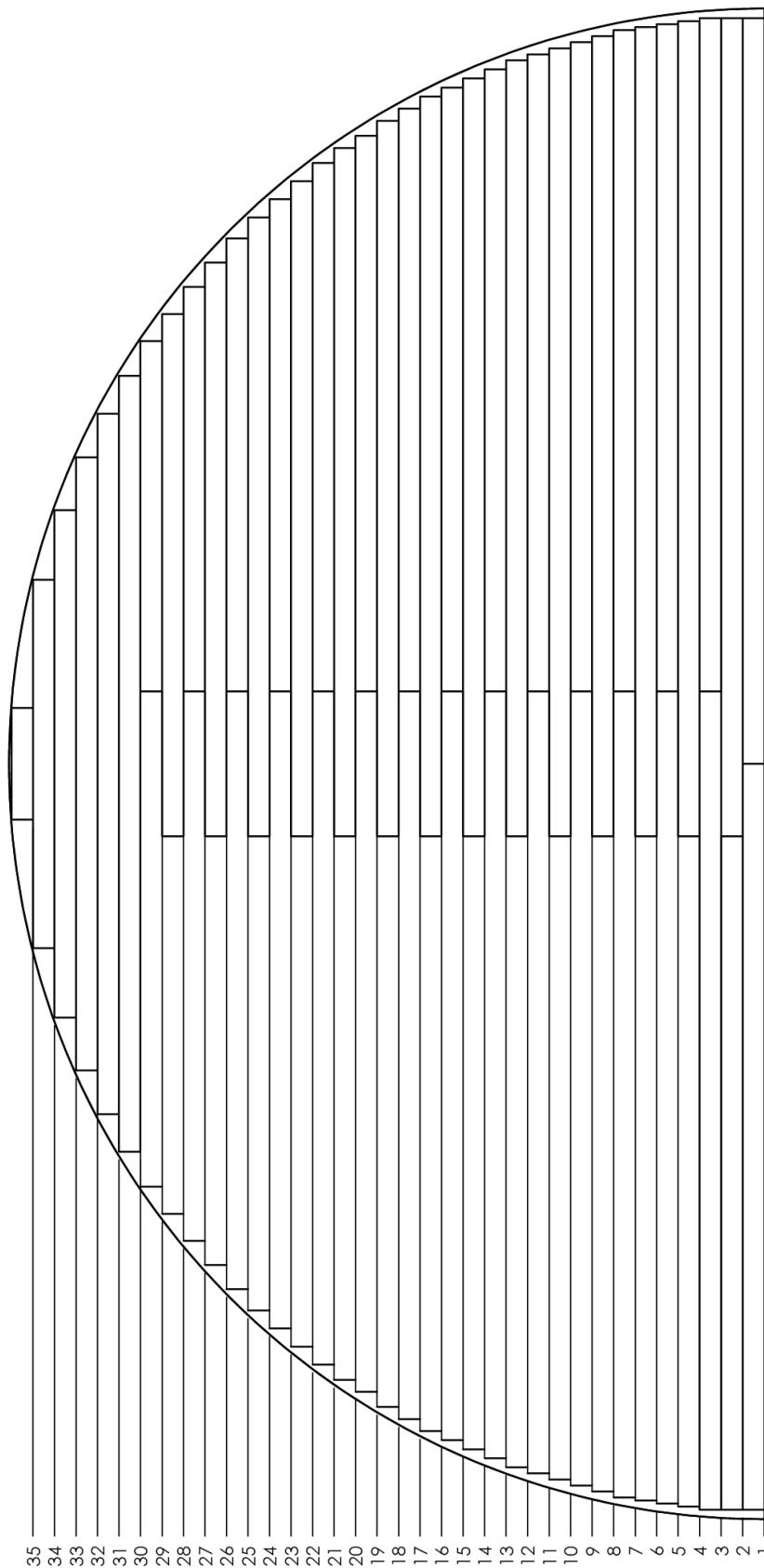
Stacks 1 & 3		Stacks 2 & 4	
Plank #	Length	Plank #	Length

Top of Stack

15	37'4"	29	23'3"
16	36'9"	30	21'5"
13	38'4"	27	26'5"
14	37'10"	28	24'11"
11	39'2"	25	29'0"
12	38'9"	26	27'9"
9	39'11"	23	31'2"
10	39'7"	24	30'2"
7	40'5"	33	14'0"
8	40'2"	32	16'11"
		21	33'1"
5	40'10"		
6	40'8"	31	19'4"
		34	10'2"
3	41'1"	35	3'1"
4	40'11"	19	34'9"
1	41'2"	22	32'2"
2	41'2"	20	33'11"
		17	36'1"
		18	35'5"

Bottom of Stack

42' DIA. BIN SPLIT-PLANK LAYOUT



SWFS0059
05/10/2019 CLW

Layout & Location of Floor Planks

LOCATING SPLIT PLANKS FOR 42' DIA. BIN

A 42' split-plank floor is shipped in eight stacks.

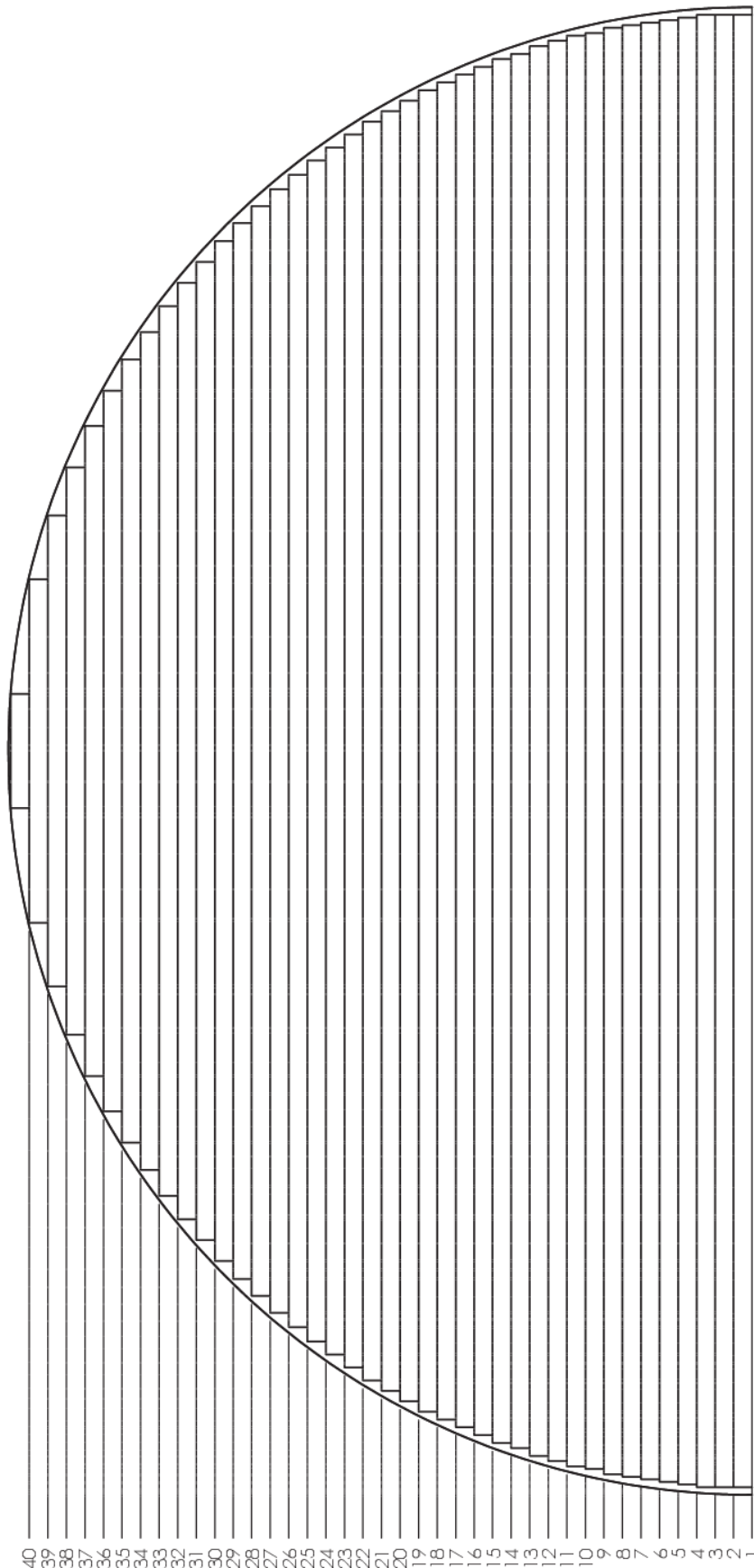
1. Label stacks as shown below by measuring top plank of each stack.
2. See layout on previous page. Plank closest to sidewall (Plank 35, measuring 3' 1") is starter plank. There is one in Stack 4 and one in Stack 8. It is shortest plank in each stack.
3. Lay out planks of Stacks 1-4. Install in descending order from Plank 35 to Plank 1. **NOTE:** Most planks are split, with sections A and B. Make sure to offset splices as shown on previous page. After reaching center of bin, install planks in ascending order on other side of bin.

See Page 31 for important notes.

42' SPLIT FLOOR

Stacks 1 & 5		Stacks 2 & 6		Stacks 3 & 7		Stacks 4 & 8	
Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length
Top of Stack							
1A	20'7"	18A	19'9"	26A	15'10"	34	10'2"
1B	20'7"	18B	15'9"	26B	11'10"	35	3'1"
8A	22'1"	17A	20'1"	25A	16'6"	29A	13'8"
8B	18'1"	17B	16'1"	25B	12'6"	29B	9'8"
7A	22'3"	16A	20'5"	24A	17'1"	28A	14'5"
7B	18'3"	16B	16'5"	24B	13'1"	28B	10'5"
6A	22'4"	15A	20'8"	23A	17'7"	27A	15'2"
6B	18'4"	15B	16'8"	23B	13'7"	27B	11'2"
5A	22'5"	14A	20'11"	22A	18'1"	32	16'11"
5B	18'5"	14B	16'11"	22B	14'1"	33	14'0"
4A	22'6"	13A	21'2"	30	21'5"	21A	18'7"
4B	18'6"	13B	17'2"	31	19'4"	21B	14'7"
3A	22'7"	12A	21'5"	11A	21'7"	20A	19'0"
3B	18'7"	12B	17'5"	11B	17'7"	20B	15'0"
2A	22'7"	9A	21'11"	10A	21'9"	19A	19'4"
2B	18'7"	9B	17'11"	10B	17'9"	19B	15'4"
Bottom of Stack							

48' DIA. BIN NON-SPLIT PLANK LAYOUT



SWFS0112
06/11/2019 CLW

LOCATING NON-SPLIT PLANKS FOR 48' DIA. BIN

A 48' non-split floor is shipped in four stacks.

1. Label stacks as shown below by measuring top plank of each stack.
2. See layout on previous page. Plank closest to sidewall (Plank 40, measuring 3' 8") is starter plank.
3. Lay out planks of Stacks 1 & 2. Install in descending order from Plank 40 to Plank 1. After reaching center of bin, install planks in ascending order on other side of bin.

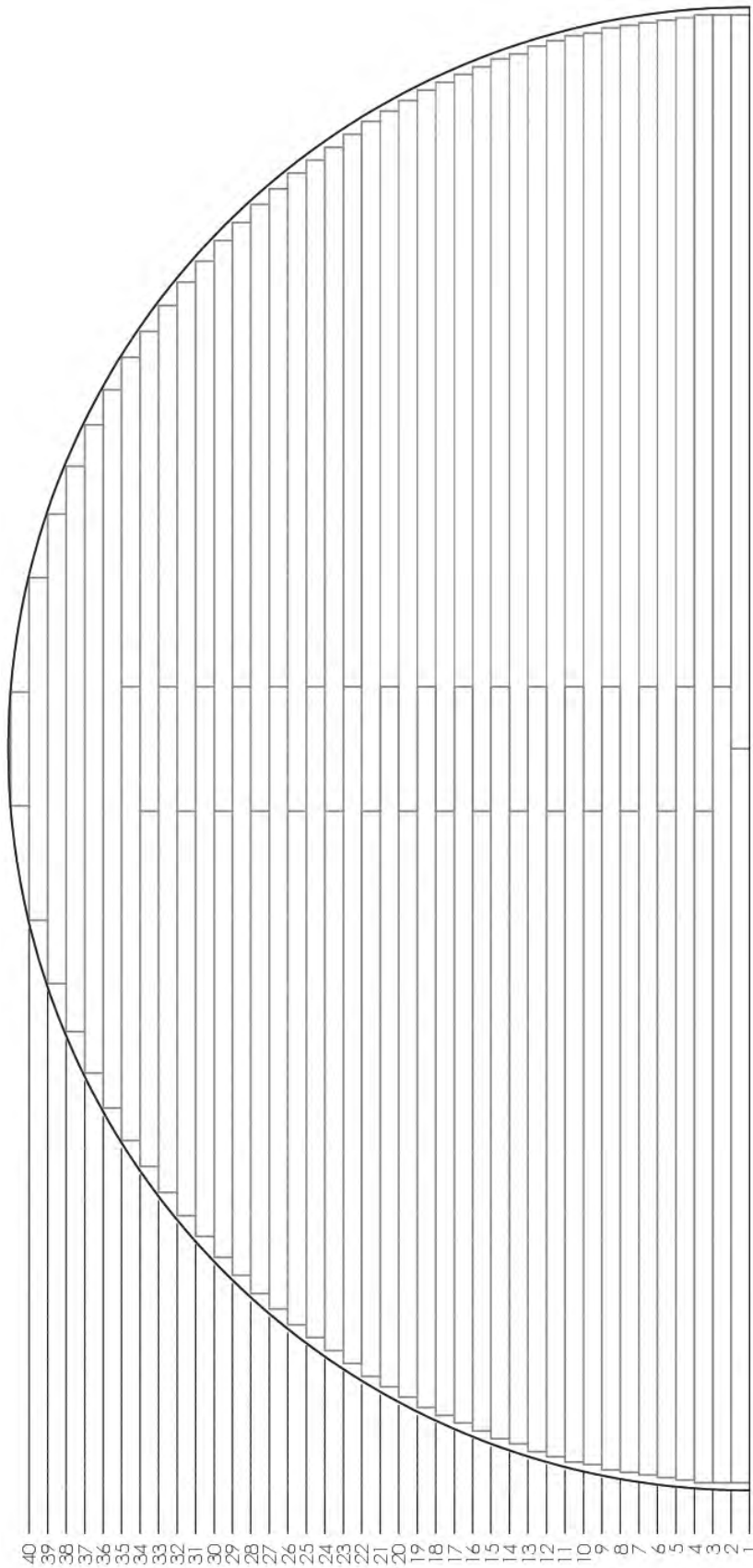
See Page 31 for important notes.

48' NON-SPLIT FLOOR

Stacks 1 & 3		Stacks 2 & 4	
Plank #	Length	Plank #	Length

<i>Top of Stack</i>			
20	40'11"	40	3'8"
19	41'7"	39	11'0"
18	42'3"	38	15'1"
17	42'9"	37	18'2"
16	43'4"	36	20'10"
15	43'10"	35	23'1"
14	44'3"	34	25'1"
13	44'8"	33	26'10"
12	45'1"	32	28'6"
11	45'5"	31	30'0"
10	45'9"	30	31'4"
9	46'0"	29	32'8"
8	46'3"	28	33'10"
7	46'6"	27	34'11"
6	46'8"	26	36'0"
5	46'10"	25	36'11"
4	46'11"	24	37'10"
3	47'1"	23	38'8"
2	47'1"	22	39'6"
1	47'2"	21	40'3"
<i>Bottom of Stack</i>			

48' DIA. BIN SPLIT-PLANK LAYOUT



SWFS0062
05/10/2019 CLW

LOCATING SPLIT PLANKS FOR 48' DIA. BIN

A 48' split-plank floor is shipped in eight stacks.

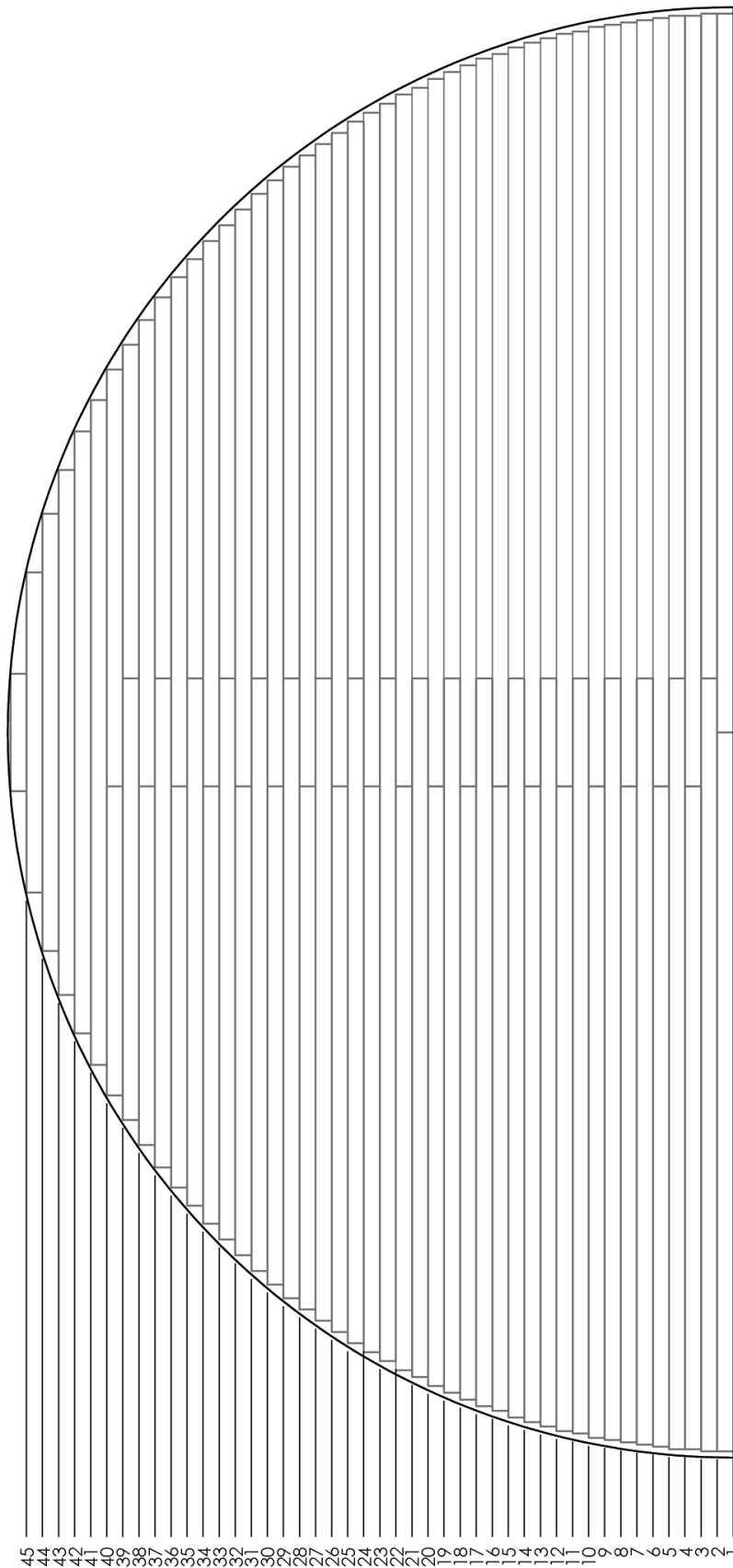
1. Label stacks as shown below by measuring top plank of each stack.
2. See layout on previous page. Plank closest to sidewall (Plank 40, measuring 3' 8") is starter plank. There is one in Stack 1 and one in Stack 5. It is shortest plank in each stack.
3. Lay out planks of Stacks 1-4. Install in descending order from Plank 40 to Plank 1. **NOTE:** Most planks are split, with sections A and B. Make sure to offset splices as shown on previous page. After reaching center of bin, install planks in ascending order on other side of bin.

See Page 31 for important notes.

48' SPLIT-PLANK FLOOR

Stacks 1 & 5		Stacks 2 & 6		Stacks 3 & 7		Stacks 4 & 8	
Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length
Top of Stack							
39	11'0"	17B	19'5"	26B	16'0"	33B	11'5"
40	3'8"	17A	23'5"	26A	20'0"	33A	15'5"
2B	21'7"						
		16B	19'8"	25B	16'6"	32B	12'3"
1B	23'7"	16A	23'8"	25A	20'6"	32A	16'3"
1A	23'7"						
		15B	19'11"	24B	16'11"	31B	13'0"
8B	21'2"	15A	23'11"	24A	20'11"	31A	17'0"
8A	25'2"						
		14B	20'2"	23B	17'4"	30B	13'8"
7B	21'3"	14A	24'2"	23A	21'4"	30A	17'8"
7A	25'3"						
		13B	20'4"	22B	17'9"	38	15'1"
6B	21'4"	13A	24'4"	22A	21'9"	37	18'2"
6A	25'4"						
		12B	20'7"	21B	18'2"	29B	14'4"
5B	21'5"	12A	24'7"	21A	22'2"	29A	18'4"
5A	25'5"						
		11B	20'9"	20B	18'6"	28B	14'11"
4B	21'6"	11A	24'9"	20A	22'6"	28A	18'11"
4A	25'6"						
		10B	20'11"	19B	18'10"	36	20'10"
3B	21'7"	10A	24'11"	19A	22'10"	35	23'1"
3A	25'7"						
		9B	21'0"	18B	19'2"	27B	15'6"
34B	10'7"	9A	25'0"	18A	23'2"	27A	19'6"
34A	14'7"						
2A	25'7"						
Bottom of Stack							

54' DIA. BIN PLANK LAYOUT



SWFS0063
05/10/2019 CLW

LOCATING PLANKS FOR 54' DIA. BIN

A 54' floor is shipped in eight stacks.

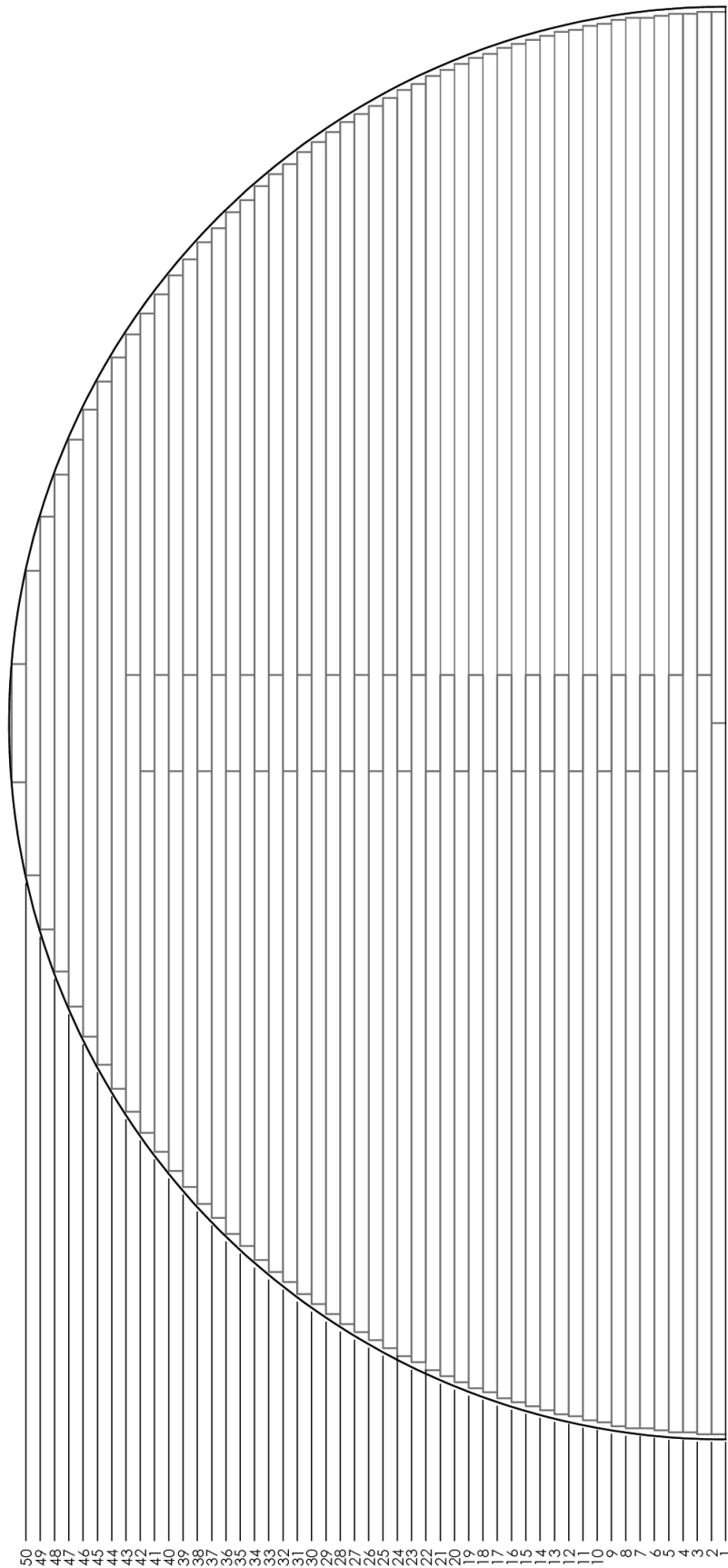
1. Label stacks as shown below by measuring top plank of each stack.
2. See layout on previous page. Plank closest to sidewall (Plank 45, measuring 4' 4") is starter plank. There is one in Stack 3 and one in Stack 7. It is shortest plank in each stack.
3. Lay out planks of Stacks 1-4. Install in descending order from Plank 45 to Plank 1. **NOTE:** Most planks are split, with sections A and B. Make sure to offset splices as shown on previous page. After reaching center of bin, install planks in ascending order on other side of bin.

See Page 31 for important notes.

54' FLOOR

Stacks 1 & 5		Stacks 2 & 6		Stacks 3 & 7		Stacks 4 & 8	
Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length
Top of Stack							
38A	16'4"	42	19'5"	22B	21'3"	36B	14'1"
2B	24'7"	9B	24'1"	21B	21'7"	36A	18'1"
1B	26'7"	18B	22'5"	45	4'4"	35B	14'10"
1A	26'7"	18A	26'5"	37A	17'3"	35A	18'10"
				20B	21'10"		
39B	11'5"	17B	22'8"			34B	15'6"
39A	15'5"	17A	26'8"	27B	19'4"	34A	19'6"
9A	28'1"			27A	23'4"		
		16B	22'11"			33B	16'2"
8B	24'2"	16A	26'11"	26B	19'9"	33A	20'2"
8A	28'2"			26A	23'9"		
		15B	23'1"			32B	16'9"
7B	24'3"	15A	27'1"	25B	20'2"	32A	20'9"
7A	28'3"			25A	24'2"		
		14B	23'4"			31B	17'4"
6B	24'4"	14A	27'4"	24B	20'7"	31A	21'4"
6A	28'4"			24A	24'7"		
		13B	23'6"			30B	17'11"
5B	24'5"	13A	27'6"	23B	20'11"	30A	21'11"
5A	28'5"			23A	24'11"		
		12B	23'8"			28B	18'11"
4B	24'6"	12A	27'8"	37B	13'3"	28A	22'11"
4A	28'6"			44	11'10"		
		11B	23'10"	22A	25'3"	29B	18'5"
3B	24'6"	11A	27'10"			29A	22'5"
3A	28'6"			21A	25'7"		
		10B	23'11"	20A	25'10"	41	22'3"
38B	12'4"	10A	27'11"			40	24'7"
43	16'2"			19B	22'2"		
2A	28'7"			19A	26'2"		
Bottom of Stack							

60' DIA. BIN PLANK LAYOUT



SWFS0064
05/10/2019 CLW

LOCATING PLANKS FOR 60' DIA. BIN

A 60' floor is shipped in 10 stacks.

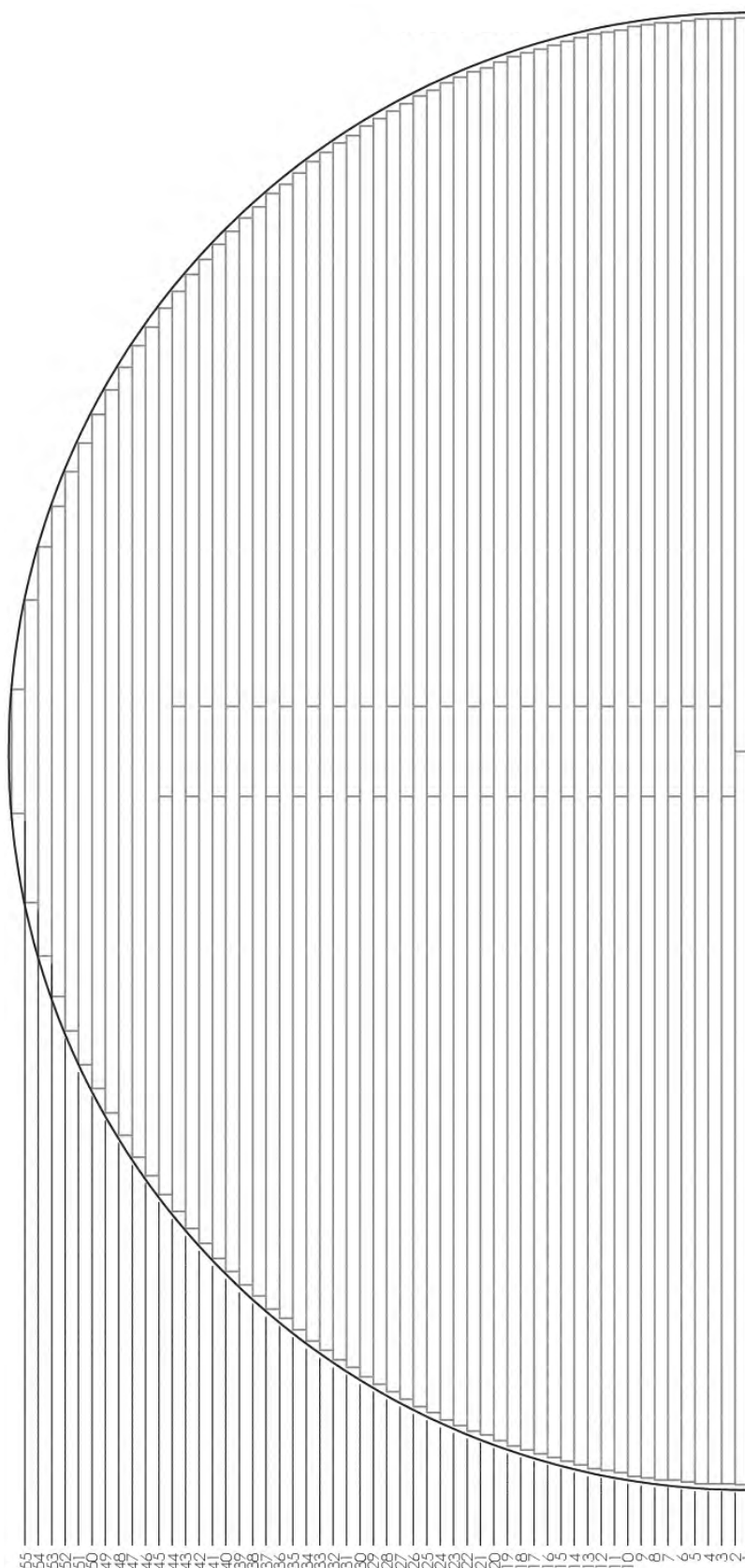
1. Label stacks as shown below by measuring top plank of each stack.
2. See layout on previous page. Plank closest to sidewall (Plank 50, measuring 4' 11") is starter plank. There is one in Stack 2 and one in Stack 7. It is shortest plank in each stack.
3. Lay out planks of Stacks 1-5. Install in descending order from Plank 50 to Plank 1. **NOTE:** Most planks are split, with sections A and B. Make sure to offset splices as shown on previous page. After reaching center of bin, install planks in ascending order on other side of bin.

See Page 31 for important notes.

60' FLOOR

Stacks 1 & 6		Stacks 2 & 7		Stacks 3 & 8		Stacks 4 & 9		Stacks 5 & 10	
Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length
Top of Stack									
1B	29'7"	42B	14'2"	26B	23'4"	35B	19'3"	41B	15'1"
1A	29'7"	50	4'11"	26A	27'4"	35A	23'3"	41A	19'1"
		9B	27'1"						
49	12'8"			25B	23'8"	34B	19'9"	40B	15'10"
42A	18'2"	17B	25'10"	25A	27'8"	34A	23'9"	40A	19'10"
9A	31'1"	17A	29'10"						
				24B	24'0"	33B	20'4"	39B	16'8"
8B	27'3"	16B	26'1"	24A	28'0"	33A	24'4"	39A	20'8"
8A	31'3"	16A	30'1"						
				23B	24'4"	32B	20'10"	48	17'2"
7B	27'4"	15B	26'3"	23A	28'4"	32A	24'10"	47	20'8"
7A	31'4"	15A	30'3"						
				22B	24'7"	31B	21'3"	38B	17'4"
6B	27'4"	14B	26'5"	22A	28'7"	31A	25'3"	38A	21'4"
6A	31'4"	14A	30'5"						
				21B	24'11"	30B	21'9"	37B	18'0"
5B	27'5"	13B	26'7"	21A	28'11"	30A	25'9"	37A	22'0"
5A	31'5"	13A	30'7"						
				20B	25'2"	29B	22'2"	36B	18'7"
4B	27'6"	12B	26'9"	20A	29'2"	29A	26'2"	36A	22'7"
4A	31'6"	12A	30'9"						
				19B	25'5"	28B	22'7"	46	23'7"
3B	27'6"	11B	26'10"	19A	29'5"	28A	26'7"	45	26'1"
3A	31'6"	11A	30'10"						
				18B	25'8"	27B	23'0"	44	28'5"
2B	27'7"	10B	27'0"	18A	29'8"	27A	27'0"	43	30'5"
2A	31'7"	10A	31'0"						
Bottom of Stack									

66' DIA. BIN PLANK LAYOUT



SWFS0102
06/10/2019 CLW

Layout & Location of Floor Planks

LOCATING PLANKS FOR 66' DIA. BIN

A 66' floor is shipped in 10 stacks.

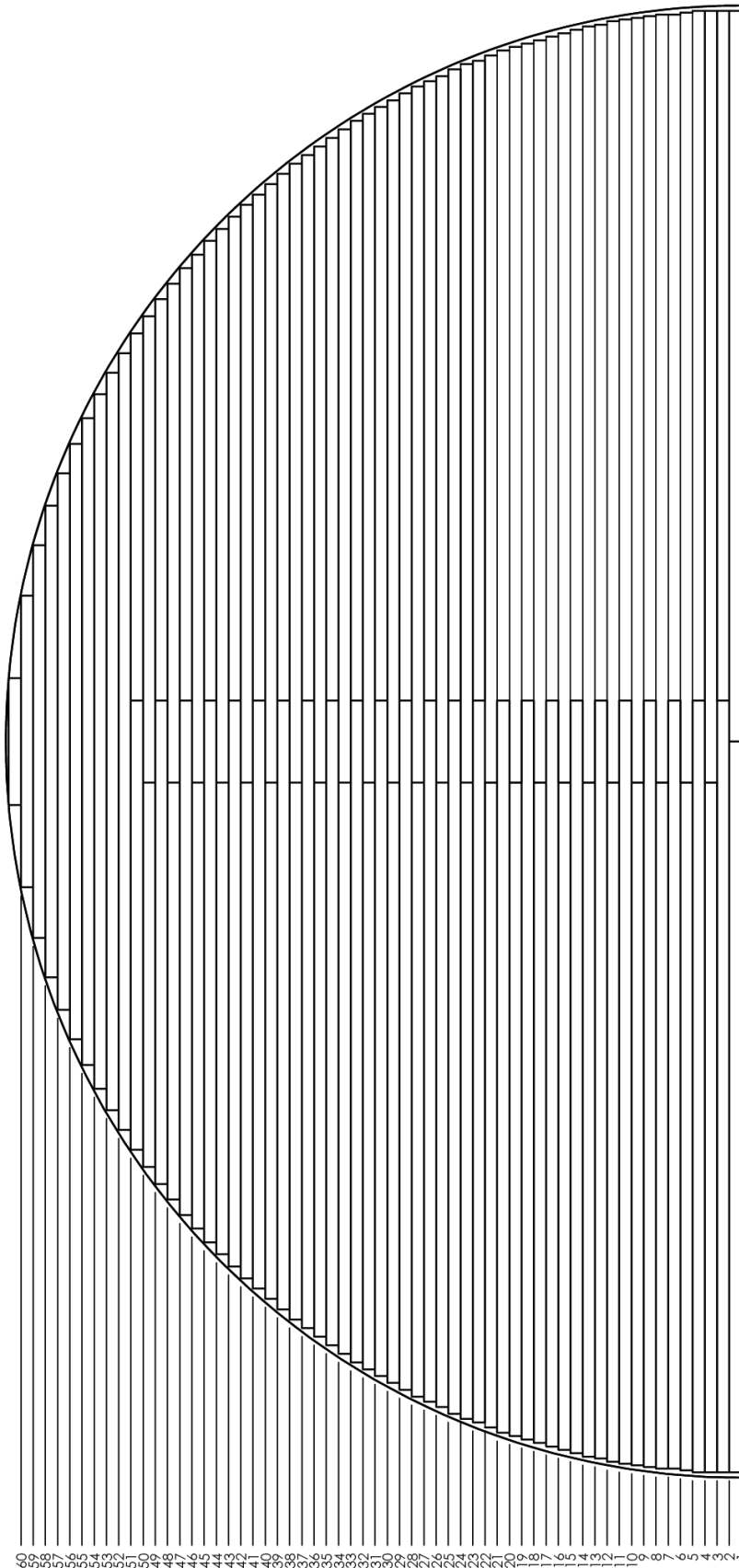
1. Label stacks as shown below by measuring top plank of each stack.
2. See layout on previous page. Plank closest to sidewall (Plank 55, measuring 5' 6") is starter plank. There is one in Stack 5 and one in Stack 10. It is shortest plank in each stack.
3. Lay out planks of Stacks 1-5. Install in descending order from Plank 55 to Plank 1. **NOTE:** Most planks are split, with sections A and B. Make sure to offset splices as shown on previous page. After reaching center of bin, install planks in ascending order on other side of bin.

See Page 31 for important notes.

66' FLOOR

Stacks 1 & 6		Stacks 2 & 7		Stacks 3 & 8		Stacks 4 & 9		Stacks 5 & 10	
Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length
Top of Stack									
1B	32'6"	20B	28'4"	30B	25'4"	39B	21'1"	-	
1A	32'6"	20A	32'4"	30A	29'4"	39A	25'1"	55	5'6"
10B	30'0"	19B	28'7"	29B	25'9"	38B	21'8"	54	13'5"
10A	34'0"	19A	32'7"	29A	29'9"	38A	25'8"	53	18'2"
9B	30'2"	18B	28'10"	28B	26'1"	37B	22'2"	44B	17'8"
9A	34'2"	18A	32'10"	28A	30'1"	37A	26'2"	44A	21'8"
8B	30'3"	17B	29'0"	27B	26'5"	46	36'0"	51	24'10"
8A	34'3"	17A	33'0"	27A	30'5"	45	37'8"	52	21'9"
7B	30'4"	16B	29'2"	26B	26'9"	36B	22'9"	43B	18'5"
7A	34'4"	16A	33'2"	26A	30'9"	36A	26'9"	43A	22'5"
6B	30'4"	15B	29'4"	25B	27'1"	35B	23'2"	42B	19'2"
6A	34'4"	15A	33'4"	25A	31'1"	35A	27'2"	42A	23'2"
5B	30'5"	14B	29'6"	24B	27'4"	34B	23'8"	41B	19'10"
5A	34'5"	14A	33'6"	24A	31'4"	34A	27'8"	41A	23'10"
4B	30'6"	13B	29'8"	23B	27'8"	33B	24'2"	40B	20'6"
4A	34'6"	13A	33'8"	23A	31'8"	33A	28'2"	40A	24'6"
3B	30'6"	12B	29'10"	22B	27'11"	32B	24'7"	50	27'7"
3A	34'6"	12A	33'10"	22A	31'11"	32A	28'7"	49	29'11"
2B	30'6"	11B	29'11"	21B	28'2"	31B	25'0"	48	32'1"
2A	34'6"	11A	33'11"	21A	32'2"	31A	29'0"	47	34'1"
Bottom of Stack									

72' DIA. BIN PLANK LAYOUT



SWFS0065
05/13/2019 CLW

Layout & Location of Floor Planks

LOCATING PLANKS FOR 72' DIA. BIN

A 72' floor is shipped in 12 stacks.

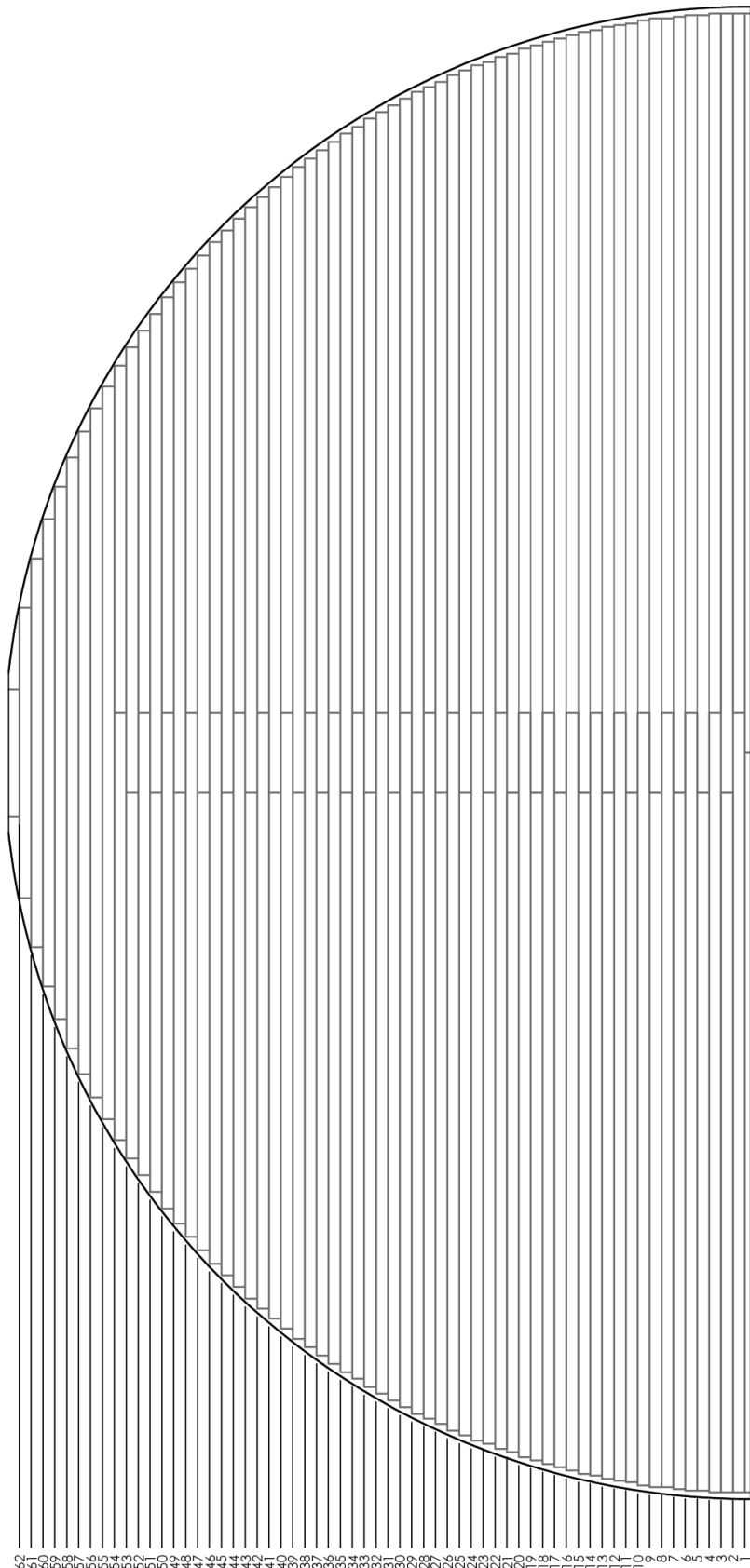
1. Label stacks as shown below by measuring top plank of each stack.
2. See layout on previous page. Plank closest to sidewall (Plank 60, measuring 6' 2") is starter plank. There is one in Stack 1 and one in Stack 7. It is shortest plank in each stack.
3. Lay out planks of Stacks 1-6. Install in descending order from Plank 60 to Plank 1. **NOTE:** Most planks are split, with sections A and B. Make sure to offset splices as shown on previous page. After reaching center of bin, install planks in ascending order on other side of bin.

See Page 31 for important notes.

72' FLOOR

Stacks 1 & 7		Stacks 2 & 8		Stacks 3 & 9		Stacks 4 & 10		Stacks 5 & 11		Stacks 6 & 12	
Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length
Top of Stack											
1B	35'6"	17B	32'1"	26B	30'1"	35B	26'11"	44B	22'4"	49B	18'8"
1A	35'6"	17A	36'1"	26A	34'1"	35A	30'11"	44A	26'4"	49A	22'8"
60	6'2"	16B	32'3"	25B	30'4"	34B	27'4"	43B	22'11"	58	19'1"
50B	17'10"	16A	36'3"	25A	34'4"	34A	31'4"	43A	26'11"	57	22'11"
8B	33'3"										
		15B	32'5"	24B	30'8"	33B	27'9"	42B	23'6"	48B	19'6"
59	14'2"	15A	36'5"	24A	34'8"	33A	31'9"	42A	27'6"	48A	23'6"
50A	21'10"										
8A	37'3"	14B	32'7"	23B	30'11"	32B	28'2"	41B	24'1"	47B	20'3"
		14A	36'7"	23A	34'11"	32A	32'2"	41A	28'1"	47A	24'3"
7B	33'4"										
7A	37'4"	13B	32'9"	22B	31'1"	31B	28'6"	40B	24'7"	46B	21'0"
		13A	36'9"	22A	35'1"	31A	32'6"	40A	28'7"	46A	25'0"
6B	33'4"										
6A	37'4"	12B	32'10"	21B	31'4"	30B	28'10"	39B	25'1"	45B	21'8"
		12A	36'10"	21A	35'4"	30A	32'10"	39A	29'1"	45A	25'8"
5B	33'5"										
5A	37'5"	11B	33'0"	20B	31'7"	29B	29'2"	38B	25'7"	56	26'1"
		11A	37'0"	20A	35'7"	29A	33'2"	38A	29'7"	55	28'11"
4B	33'6"										
4A	37'6"	10B	33'1"	19B	31'9"	28B	29'6"	37B	26'1"	54	31'5"
		10A	37'1"	19A	35'9"	28A	33'6"	37A	30'1"	53	33'9"
3B	33'6"										
3A	37'6"	9B	33'2"	18B	31'11"	27B	29'10"	36B	26'6"	52	35'10"
		9A	37'2"	18A	35'11"	27A	33'10"	36A	30'6"	51	37'9"
2B	33'6"										
2A	37'6"										
Bottom of Stack											

75' DIA. BIN PLANK LAYOUT



LOCATING PLANKS FOR 75' DIA. BIN

A 75' floor is shipped in 13 stacks.

1. Label stacks as shown below and on next page by measuring top plank of each stack.
2. See layout on previous page. Plank closest to sidewall (Plank 62, measuring 6' 4") is starter plank. There are two of them in Stack 8. They are shortest planks in stack.
3. Lay out planks of Stacks 1-6. Install in descending order from Plank 62 to Plank 0. **NOTE:** Most planks are split, with sections A and B. Make sure to offset splices as shown on previous page. After reaching center of bin, install planks in ascending order on other side of bin.

See Page 31 for important notes.

75' FLOOR

Stack 1		Stack 2		Stacks 3 & 9		Stacks 4 & 10	
Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length
Top of Stack							
0B	36'11"	58	26'7"	17B	33'6"	26B	31'6"
0A	36'11"	58	26'7"	17A	37'6"	26A	35'6"
8B	34'8"	8B	34'8"	16B	33'8"	25B	31'10"
8A	38'8"	8A	38'8"	16A	37'8"	25A	35'10"
7B	34'8"	7B	34'8"	15B	33'10"	24B	32'1"
7A	38'8"	7A	38'8"	15A	37'10"	24A	36'1"
6B	34'9"	6B	34'9"	14B	34'0"	23B	32'4"
6A	38'9"	6A	38'9"	14A	38'0"	23A	36'4"
5B	34'10"	5B	34'10"	13B	34'1"	22B	32'6"
5A	38'10"	5A	38'10"	13A	38'1"	22A	36'6"
4B	34'10"	4B	34'10"	12B	34'3"	21B	32'9"
4A	38'10"	4A	38'10"	12A	38'3"	21A	36'9"
3B	34'11"	3B	34'11"	11B	34'4"	20B	32'11"
3A	38'11"	3A	38'11"	11A	38'4"	20A	36'11"
2B	34'11"	2B	34'11"	10B	34'5"	19B	33'2"
2A	38'11"	2A	38'11"	10A	38'5"	19A	37'2"
1B	34'11"	1B	34'11"	9B	34'7"	18B	33'4"
1A	38'11"	1A	38'11"	9A	38'7"	18A	37'4"
Bottom of Stack							

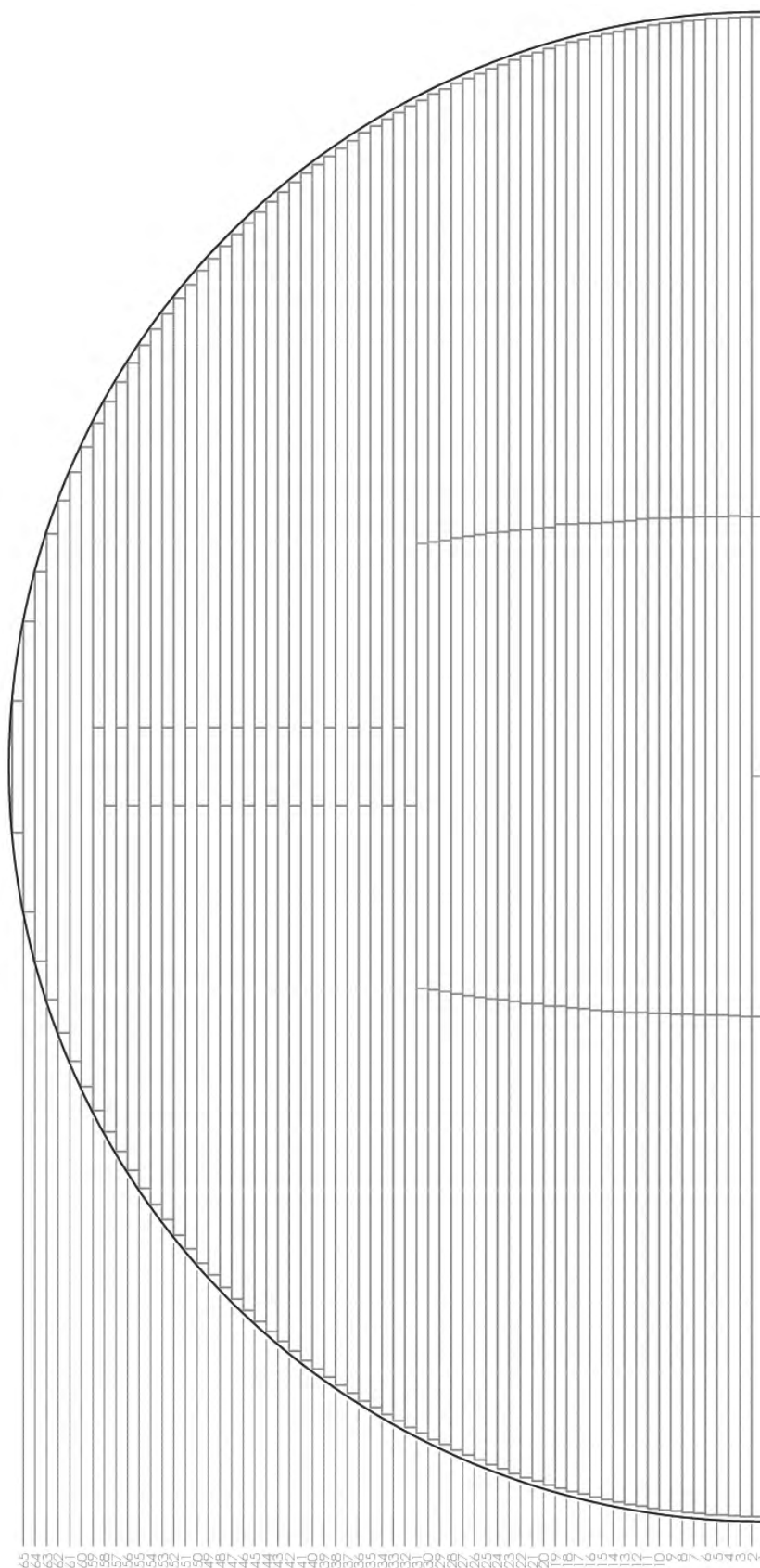
See next page for Stacks 5-8 & 11-13

Layout & Location of Floor Planks

75' FLOOR

Stacks 5 & 11		Stacks 6 & 12		Stacks 7 & 13		Stack 8	
Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length
Top of Stack							
35B	28'6"	44B	24'1"	-		62	6'4"
35A	32'6"	44A	28'1"	53A	21'4"	62	6'4"
34B	28'11"	43B	24'8"	52B	18'3"	61	14'6"
34A	32'11"	43A	28'8"	52A	22'3"	61	14'6"
33B	29'3"	42B	25'3"	51B	19'1"	53B	17'4"
33A	33'3"	42A	29'3"	51A	23'1"	53B	17'4"
32B	29'8"	41B	25'9"	50B	19'11"	60	19'5"
32A	33'8"	41A	29'9"	50A	23'11"	60	19'5"
31B	30'0"	40B	26'3"	49B	20'9"	59	23'4"
31A	34'0"	40A	30'3"	49A	24'9"	59	23'4"
30B	30'4"	39B	26'9"	48B	21'6"	57	29'6"
30A	34'4"	39A	30'9"	48A	25'6"	57	29'6"
29B	30'8"	38B	27'3"	47B	22'2"	56	32'1"
29A	34'8"	38A	31'3"	47A	26'2"	56	32'1"
28B	31'0"	37B	27'8"	46B	22'10"	55	34'5"
28A	35'0"	37A	31'8"	46A	26'10"	55	34'5"
27B	31'3"	36B	28'1"	45B	23'6"	54	36'7"
27A	35'3"	36A	32'1"	45A	27'6"	54	36'7"
Bottom of Stack							

78' DIA. BIN PLANK LAYOUT



SWFS0103
05/28/2019 CLW

LOCATING PLANKS FOR 78' DIA. BIN

A 78' floor is shipped in 14 stacks.

1. Label stacks as shown below and on next page by measuring top plank of each stack.
2. See layout on previous page. Plank closest to sidewall (Plank 65, measuring 6' 9") is starter plank. There is one in Stack 7 and one in Stack 14. It is shortest plank in each stack.
3. Lay out planks of Stacks 1-7. Work in descending order from Plank 65 to Plank 1. **NOTE:** Most planks are split, with sections A, B and, in some cases, C. Make sure to offset splices as shown on previous page. After reaching center of bin, install planks in ascending order on other side of bin.

See Page 31 for important notes.

78' FLOOR

Stacks 1 & 8		Stacks 2 & 9		Stacks 3 & 10		Stacks 4 & 11	
Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length
Top of Stack							
8A	25'6"	15B	25'0"	22C	24'2"	30A	22'10"
7C	25'6"	15A	25'0"	22B	24'2"	29C	23'0"
7B	25'6"	14C	25'1"	22A	24'3"	29B	23'0"
7A	25'7"	14B	25'1"	21C	24'4"	29A	23'1"
6C	25'6"	14A	25'1"	21B	24'4"	28C	23'2"
6B	25'7"	13C	25'2"	21A	24'4"	28B	23'2"
6A	25'7"	13B	25'2"	20C	24'5"	28A	23'3"
5C	25'7"	13A	25'2"	20B	24'5"	27C	23'4"
4C	25'7"	12C	25'3"	20A	24'6"	27B	23'5"
4B	25'7"	12B	25'3"	19C	24'7"	27A	23'5"
5B	25'7"	12A	25'3"	19B	24'7"	26C	23'6"
5A	25'8"	11C	25'3"	19A	24'7"	26B	23'7"
3C	25'7"	11B	25'4"	18C	24'8"	26A	23'7"
4A	25'8"	11A	25'4"	18B	24'8"	25C	23'8"
3B	25'8"	10C	25'4"	18A	24'9"	25B	23'9"
3A	25'8"	10B	25'5"	17C	24'9"	25A	23'9"
2C	25'8"	10A	25'5"	17B	24'10"	24C	23'10"
2B	25'8"	9C	25'5"	17A	24'10"	24B	23'11"
2A	25'8"	9B	25'5"	16C	24'10"	24A	23'11"
1C	25'8"	9A	25'6"	16B	24'11"	23C	24'0"
1B	25'8"	8C	25'5"	16A	24'11"	23B	24'0"
1A	25'8"	8B	25'6"	15C	25'0"	23A	24'1"
Bottom of Stack							

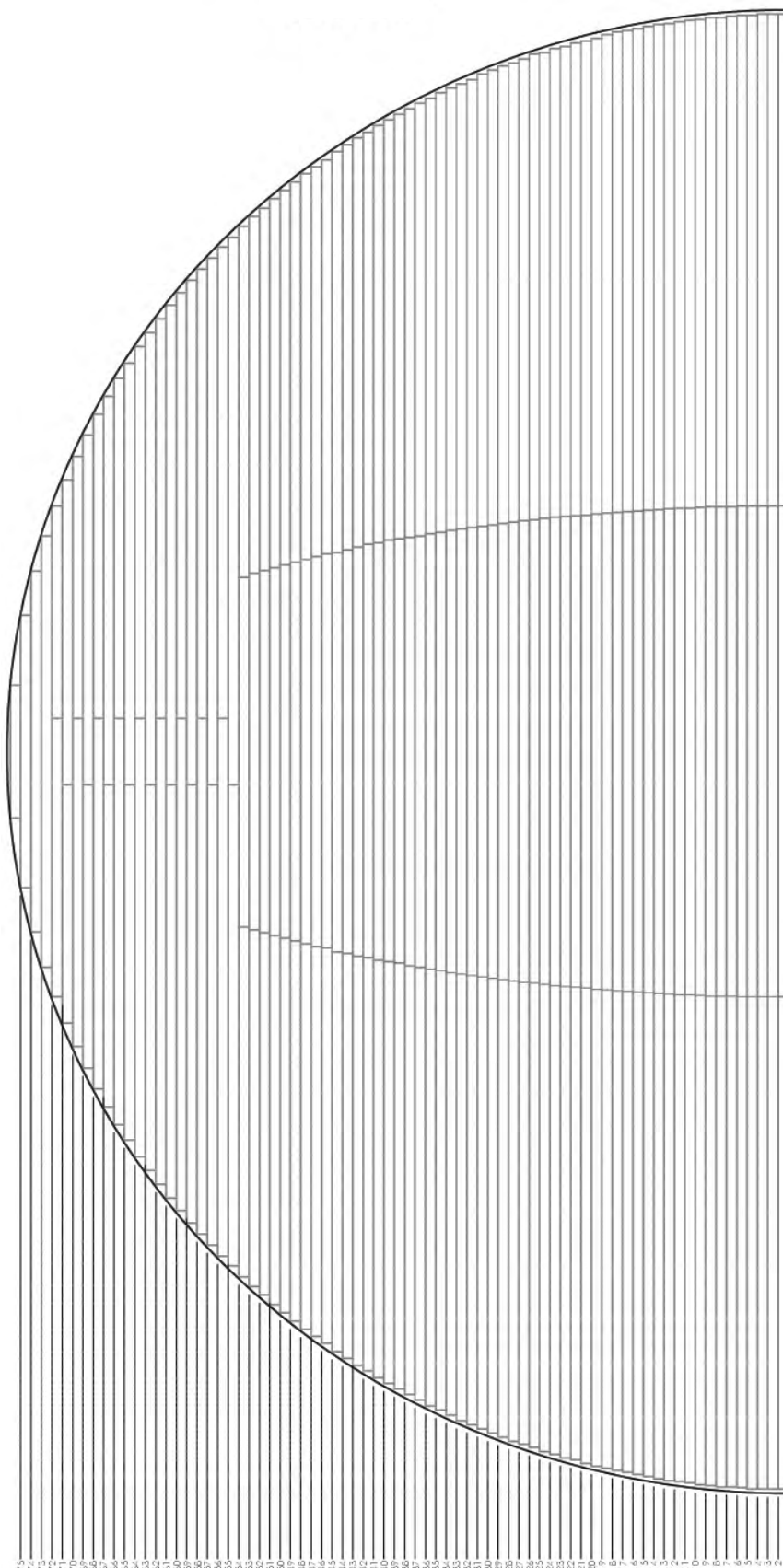
See next page for Stacks 5-7 & 12-14

Layout & Location of Floor Planks

78' FLOOR

Stacks 5 & 12		Stacks 6 & 13		Stacks 7 & 14	
Plank #	Length	Plank #	Length	Plank #	Length
Top of Stack					
30C	22'9"	51B	22'1"	-	
30B	22'10"	51A	26'1"	65	6'9"
40B	28'6"	50B	22'9"	64	14'11"
40A	32'6"	50A	26'9"	63	20'0"
39B	28'11"	49B	23'6"	62	23'11"
39A	32'11"	49A	27'5"	61	27'4"
38B	29'4"	48B	24'1"	58B	15'8"
38A	33'4"	48A	28'1"	58A	19'8"
37B	29'9"	47B	24'9"	57B	16'9"
37A	33'9"	47A	28'8"	57A	20'9"
36B	30'2"	46B	25'4"	56B	17'9"
36A	34'2"	46A	29'4"	56A	21'9"
35B	30'7"	45B	25'11"	55B	18'9"
35A	34'6"	45A	29'11"	55A	22'8"
34B	30'11"	44B	26'6"	54B	19'8"
34A	34'11"	44A	30'5"	54A	23'8"
33B	31'3"	43B	27'0"	53B	20'6"
33A	35'3"	43A	31'0"	53A	24'5"
32B	31'7"	42B	27'6"	52B	21'3"
32A	35'7"	42A	31'6"	52A	25'3"
31B	31'11"	41B	28'0"	60	30'3"
31A	35'11"	41A	32'0"	59	32'10"
Bottom of Stack					

90' DIA. BIN PLANK LAYOUT



SWFS0068
06/13/2019 CLW

Layout & Location of Floor Planks

LOCATING PLANKS FOR 90' DIA. BIN

A 90' floor is shipped in 18 stacks.

1. Label stacks as shown below and on next page by measuring top plank of each stack.
2. See layout on previous page. Plank closest to sidewall (Plank 75, measuring 8' 0") is starter plank. There is one in Stack 8 and one in Stack 17. It is shortest plank in each stack.
3. Lay out planks of Stacks 1-9. Work in descending order from Plank 75 to Plank 1. **NOTE:** Most planks are split, with sections A, B and, in some cases, C. Make sure to offset splices as shown on previous page. After reaching center of bin, install planks in ascending order on other side of bin.

See Page 31 for important notes.

90' FLOOR

Stacks 1 & 10		Stacks 2 & 11		Stacks 3 & 12		Stacks 4 & 13		Stacks 5 & 14	
Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length
Top of Stack									
8A	29'6"	15B	29'1"	22C	28'4"	30A	27'3"	37B	25'10"
7C	29'6"	15A	29'1"	22B	28'4"	29C	27'4"	37A	25'10"
7B	29'6"	14C	29'1"	22A	28'5"	29B	27'5"	36C	26'0"
7A	29'7"	14B	29'2"	21C	28'6"	29A	27'5"	36B	26'1"
6C	29'6"	14A	29'2"	21B	28'6"	28C	27'6"	36A	26'1"
6B	29'7"	13C	29'2"	21A	28'6"	28B	27'6"	35C	26'3"
6A	29'7"	13B	29'3"	20C	28'7"	28A	27'7"	35B	26'3"
5C	29'7"	13A	29'3"	20B	28'7"	27C	27'8"	35A	26'4"
5B	29'7"	12C	29'3"	20A	28'8"	27B	27'8"	34C	26'5"
5A	29'7"	12B	29'3"	19C	28'8"	27A	27'9"	34B	26'6"
4C	29'7"	12A	29'4"	19B	28'8"	26C	27'10"	34A	26'6"
4B	29'7"	11C	29'4"	19A	28'9"	26B	27'10"	33C	26'8"
3C	29'7"	11B	29'4"	18C	28'9"	26A	27'10"	33B	26'8"
4A	29'8"	11A	29'4"	18B	28'10"	25C	27'11"	33A	26'8"
3B	29'8"	10C	29'4"	18A	28'10"	25B	28'0"	32C	26'10"
3A	29'8"	10B	29'5"	17C	28'10"	25A	28'0"	32B	26'10"
2C	29'7"	10A	29'5"	17B	28'11"	24C	28'1"	32A	26'11"
2B	29'8"	9C	29'5"	17A	28'11"	24B	28'1"	31C	27'0"
1C	29'7"	9B	29'5"	16C	28'11"	24A	28'2"	31B	27'0"
2A	29'8"	9A	29'6"	16B	29'0"	23C	28'3"	31A	27'1"
1B	29'8"	8C	29'6"	16A	29'0"	23B	28'3"	30C	27'2"
1A	29'8"	8B	29'6"	15C	29'0"	23A	28'3"	30B	27'3"
Bottom of Stack									

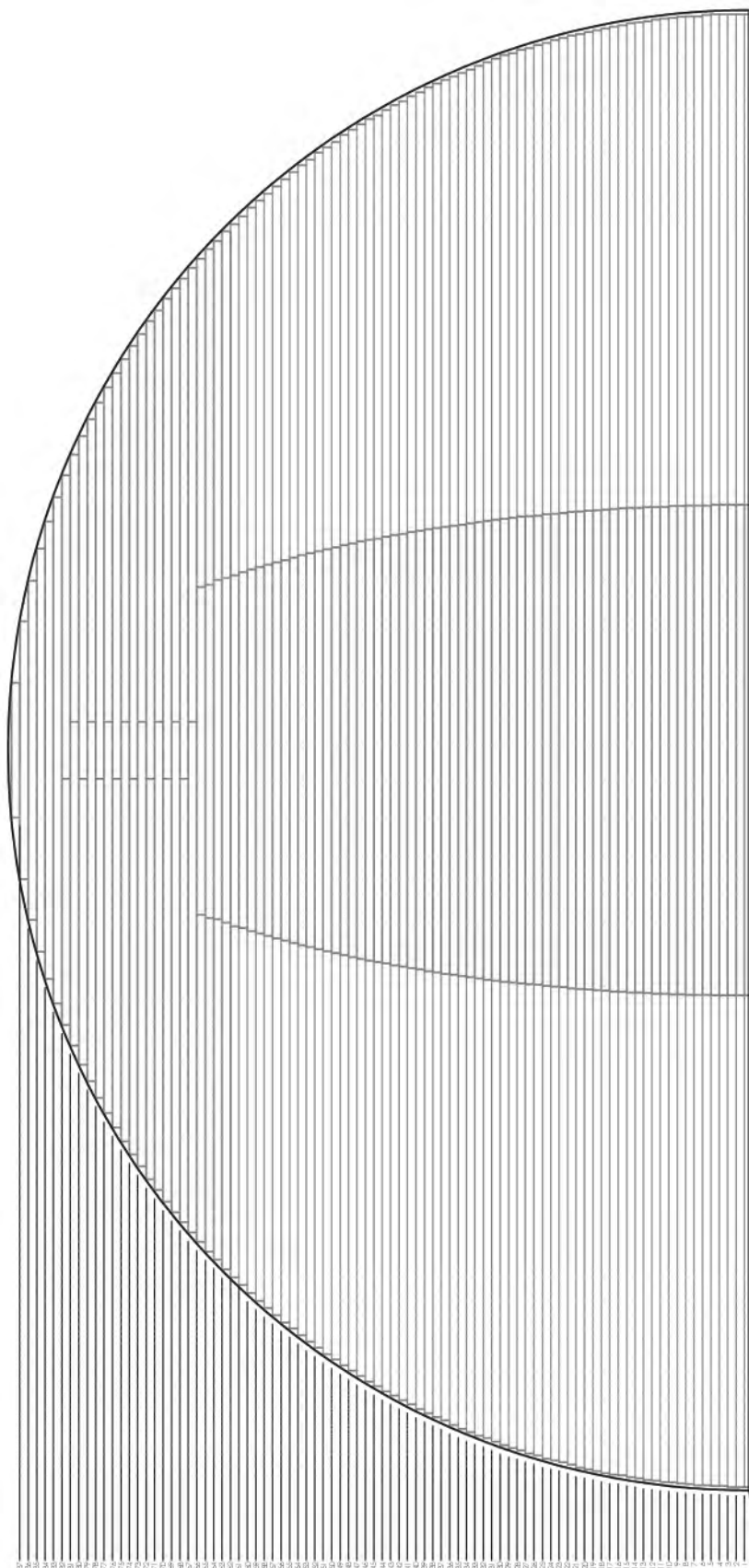
See next page for Stacks 6-9 & 15-18

Layout & Location of Floor Planks

90' FLOOR

Stacks 6 & 15		Stacks 7 & 16		Stacks 8 & 17		Stacks 9 & 18	
Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length
Top of Stack							
47B	23'2"	53B	21'1"	50C	22'2"	71B	12'10"
47A	23'3"	53A	21'1"	50B	22'2"	71A	16'10"
46C	23'6"	52C	21'5"	50A	22'3"	70B	14'5"
46B	23'6"	52B	21'6"	49C	22'6"	70A	18'5"
43B	24'4"	52A	21'6"	49B	22'6"	69B	15'10"
43A	24'5"	51C	21'10"	49A	22'7"	69A	19'10"
42C	24'7"	51B	21'10"	65B	20'6"	68B	17'1"
42B	24'8"	51A	21'10"	65A	24'5"	68A	21'1"
42A	24'8"	48C	22'10"	64B	21'5"	67B	18'4"
41C	24'10"	48B	22'10"	64A	25'5"	67A	22'4"
41B	24'11"	48A	22'11"	63B	22'5"	66B	19'5"
41A	24'11"	47C	23'2"	63A	26'5"	66A	23'5"
40C	25'1"	46A	23'6"	58B	26'5"	73	21'9"
40B	25'2"	45C	23'9"	57B	27'1"	72	26'0"
40A	25'2"	45B	23'9"	62B	23'3"	61B	24'1"
39C	25'4"	45A	23'10"	62A	27'3"	61A	28'1"
39B	25'5"	44C	24'1"	74	16'5"	60B	24'11"
39A	25'5"	44B	24'1"	55B	28'5"	60A	28'11"
38C	25'7"	44A	24'1"	75	8'0"	59B	25'8"
38B	25'7"	43C	24'4"	53C	21'1"	59A	29'8"
				58A	30'5"		
38A	25'8"	54B	29'0"	57A	31'1"	56B	27'9"
37C	25'10"	54A	33'0"	55A	32'5"	56A	31'9"
Bottom of Stack							

105' DIA. BIN SPLIT PLANK LAYOUT



SWFS0069
05/28/2019 CLW

Layout & Location of Floor Planks

LOCATING SPLIT PLANKS FOR 105' DIA. BIN

A 105' floor is shipped in 26 stacks.

1. Label stacks as shown below and on next page by measuring top planks of each stack.
2. See layout on previous page. Plank closest to sidewall (Plank 87, measuring 9' 6") is starter plank. There is one in Stack 13 and one in Stack 26. It is shortest plank in each stack.
3. Lay out planks of Stacks 1-13. Work in descending order from Plank 87 to Plank 0. **NOTE:** Most planks are split, with sections A, B and, in some cases, C. Make sure to offset splices as shown on previous page. After reaching center of bin, install planks in ascending order on other side of bin.

See Page 31 for important notes.

105' FLOOR

Stacks 1 & 14		Stacks 2 & 15		Stacks 3 & 16		Stacks 4 & 17		Stacks 5 & 18		Stacks 6 & 19		Stacks 7 & 20	
Plnk #	Lgth	Plnk #	Lgth	Plnk #	Lgth	Plnk #	Lgth	Plnk #	Lgth	Plnk #	Lgth	Plnk #	Lgth
Top of Stack													
5C	34'6"	11C	34'4"	17C	33'11"	23C	33'4"	29C	32'7"	35C	31'8"	41C	30'6"
5B	34'7"	11B	34'4"	17B	33'11"	23B	33'5"	29B	32'8"	35B	31'8"	41B	30'6"
5A	34'7"	11A	34'4"	17A	34'0"	23A	33'5"	29A	32'8"	35A	31'9"	41A	30'7"
4C	34'7"	10C	34'4"	16C	34'0"	22C	33'5"	28C	32'9"	34C	31'10"	40C	30'9"
4B	34'7"	10B	34'5"	16B	34'0"	22B	33'6"	28B	32'9"	34B	31'10"	40B	30'9"
4A	34'7"	10A	34'5"	16A	34'1"	22A	33'6"	28A	32'10"	34A	31'11"	40A	30'9"
3C	34'7"	9C	34'5"	15C	34'1"	21C	33'7"	27C	32'10"	33C	32'0"	39C	30'11"
3B	34'7"	9B	34'5"	15B	34'1"	21B	33'7"	27B	32'11"	33B	32'0"	39B	30'11"
3A	34'7"	9A	34'5"	15A	34'1"	21A	33'7"	27A	32'11"	33A	32'1"	39A	31'0"
2C	34'7"	8C	34'5"	14C	34'2"	20C	33'8"	26C	33'0"	32C	32'2"	38C	31'1"
1C	34'7"	8B	34'6"	14B	34'2"	20B	33'8"	26B	33'0"	32B	32'2"	38B	31'2"
1B	34'7"	8A	34'6"	14A	34'2"	20A	33'9"	26A	33'1"	32A	32'3"	38A	31'2"
2B	34'7"	7C	34'6"	13C	34'2"	19C	33'9"	25C	33'1"	31C	32'4"	37C	31'4"
2A	34'8"	7B	34'6"	13B	34'3"	19B	33'9"	25B	33'2"	31B	32'4"	37B	31'4"
0C	34'7"	7A	34'6"	13A	34'3"	19A	33'10"	25A	33'2"	31A	32'4"	37A	31'4"
1A	34'8"	6C	34'6"	12C	34'3"	18C	33'10"	24C	33'3"	30C	32'6"	36C	31'6"
0B	34'7"	6B	34'6"	12B	34'3"	18B	33'10"	24B	33'3"	30B	32'6"	36B	31'6"
0A	34'8"	6A	34'7"	12A	34'4"	18A	33'11"	24A	33'4"	30A	32'6"	36A	31'6"
Bottom of Stack													

See next page for Stacks 8-13 & 21-26

Layout & Location of Floor Planks

105' FLOOR

Stacks 8 & 21		Stacks 9 & 22		Stacks 10 & 23		Stacks 11 & 24		Stacks 12 & 25		Stacks 13 & 26	
Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length
Top of Stack											
47C	29'1"	53C	27'5"	59C	25'6"	65C	23'1"	74B	25'7"	85	23'11"
47B	29'2"	53B	27'6"	59B	25'6"	65B	23'1"	74A	29'7"	84	28'5"
47A	29'2"	53A	27'6"	59A	25'6"	65A	23'1"	73B	26'6"	80B	18'10"
46C	29'4"	52C	27'9"	58C	25'10"	64C	23'6"	73A	30'5"	80A	22'10"
46B	29'5"	52B	27'9"	58B	25'10"	64B	23'6"	72B	27'4"	79B	20'2"
46A	29'5"	52A	27'10"	58A	25'11"	64A	23'7"	72A	31'4"	79A	24'2"
45C	29'7"	51C	28'1"	57C	26'2"	63C	23'11"	71B	28'3"	78B	21'4"
45B	29'8"	51B	28'1"	57B	26'2"	63B	23'11"	71A	32'3"	78A	25'4"
45A	29'8"	51A	28'1"	57A	26'3"	63A	24'0"	70B	29'0"	77B	22'6"
44C	29'10"	50C	28'4"	56C	26'6"	62C	24'4"	70A	33'0"	77A	26'5"
44B	29'10"	50B	28'4"	56B	26'6"	62B	24'4"	69B	29'10"	76B	23'7"
44A	29'11"	50A	28'5"	56A	26'7"	62A	24'5"	69A	33'9"	76A	27'7"
43C	30'1"	49C	28'7"	55C	26'10"	61C	24'9"	68B	30'7"	75B	24'7"
43B	30'1"	49B	28'7"	55B	26'10"	61B	24'9"	68A	34'6"	75A	28'7"
43A	30'2"	49A	28'8"	55A	26'11"	61A	24'9"	67B	31'3"	87	9'6"
42C	30'4"	48C	28'10"	54C	27'2"	60C	25'1"	67A	35'3"	81A	21'5"
										83	32'3"
42B	30'4"	48B	28'11"	54B	27'2"	60B	25'1"	66B	32'0"		
42A	30'4"	48A	28'11"	54A	27'2"	60A	25'2"	66A	35'12"	86	18'2"
										81B	17'5"
										82	35'8"
Bottom of Stack											

Contact Information

CONTACT INFORMATION

Owner's manuals are available from Sukup and additional copies can be requested at address, phone number or e-mail address shown below. Please indicate manual number L1417HDB when requesting *Channel-Lok* "B" Series Heavy-Duty Perforated Bin Floors & Supports Owner's Installation Manual for Major bin diameters.

Sukup Dealer Information

Dealer name: _____
Address: _____
Cell phone: _____
Office phone: _____
Fax: _____

In Case of Emergency

Have emergency numbers and written directions to your location near a phone, and arrange and practice a safety plan.

Ambulance • Fire • Police: 9-1-1
Bin rescue team: _____
Local EMS team: _____
911 address of work site: _____
Directions to work site: _____



Sukup Manufacturing Co.

1555 255th Street, Box 677

Sheffield, Iowa, USA 50475-0677

Phone: 641-892-4222

Fax: 641-892-4629

Website: www.sukup.com

Email: info@sukup.com