



Channel - Lok™

HAWK CUT BIN FLOORS & SUPPORTS Installation & Owner's Manual

MINOR BIN DIAMETERS

12'	16' 5" (5M)	18' 7"
19'	19' 8" (6M)	21' 8"
22' 11" (7M)	24' 9"	26' 3" (8M)
27' 10"	29' 6" (9M)	31'
34'	36' 1" (11M)	37' 1"
42' 8" (13M)	43' 3"	49' 3" (15M)
55' 8"	59' 1" (18M)	61' 10"

Sukup Manufacturing Co.

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IMPORTANT: This manual is for installation of **Hawk Cut 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

DATE

REVISIONS

PAGES

08/14/2020 – Updated instructions to reflect new design of floor support bridges -----	20-29
07/27/2020 – Removed references to discontinued 7-1/16" Heavy-Duty Perforated flooring -----	1
06/04/2020 – Removed references throughout to discontinued 18ga Heavy-Duty Perforated flooring -----	
11/05/2019 – Updated SuperWave Supports spacing table -----	19

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.
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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.

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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.



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



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



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



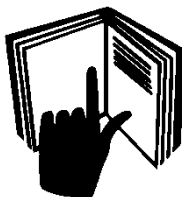
NOTICE BLUE - **NOTICE** alerts you to practices unrelated to personal injury, such as messages related to property damage.

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



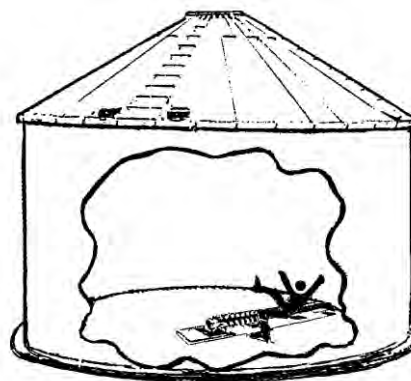
DANGER: Never enter bin unless all power is locked out and another person is present.



Rotating augers can kill or dismember!

NEVER enter bin when augers are running!

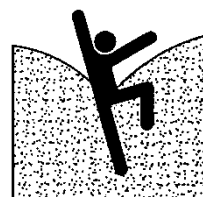
When bin is nearly empty, sweep auger will travel at an increasingly fast speed. Keep away from sweep and sump augers to avoid entanglement.



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.

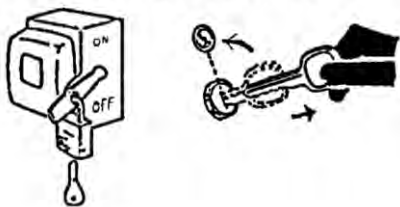
Safety

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.

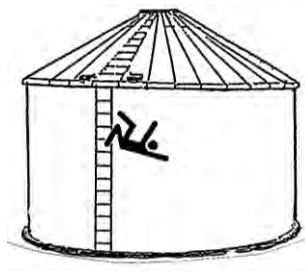
Keep people (ESPECIALLY YOUTH) away from equipment, particularly during operation.

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.

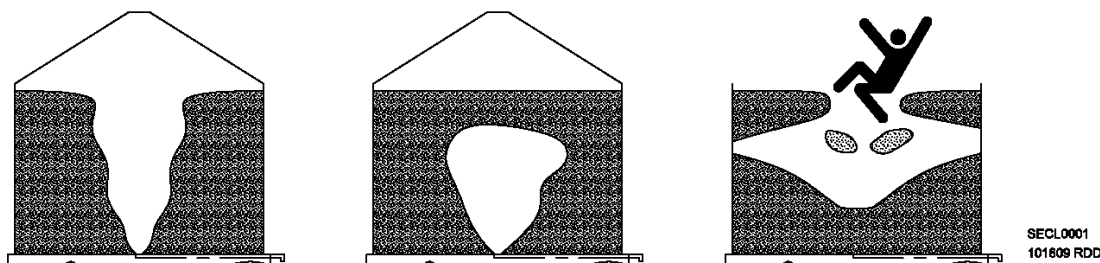


Fig. 1 – Obstructed-flow, bridged grain, collapsed bridge of grain in bin

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.

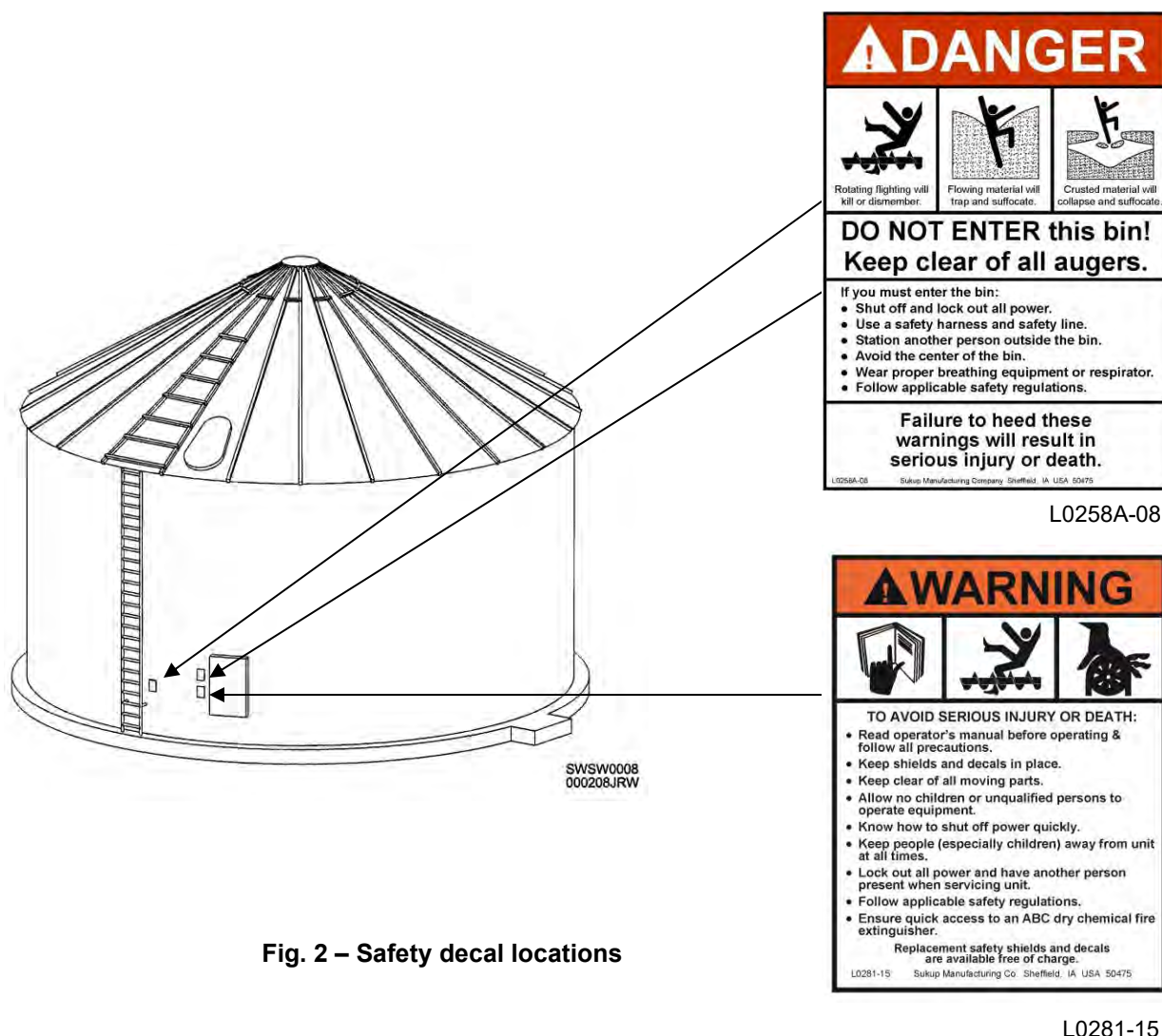


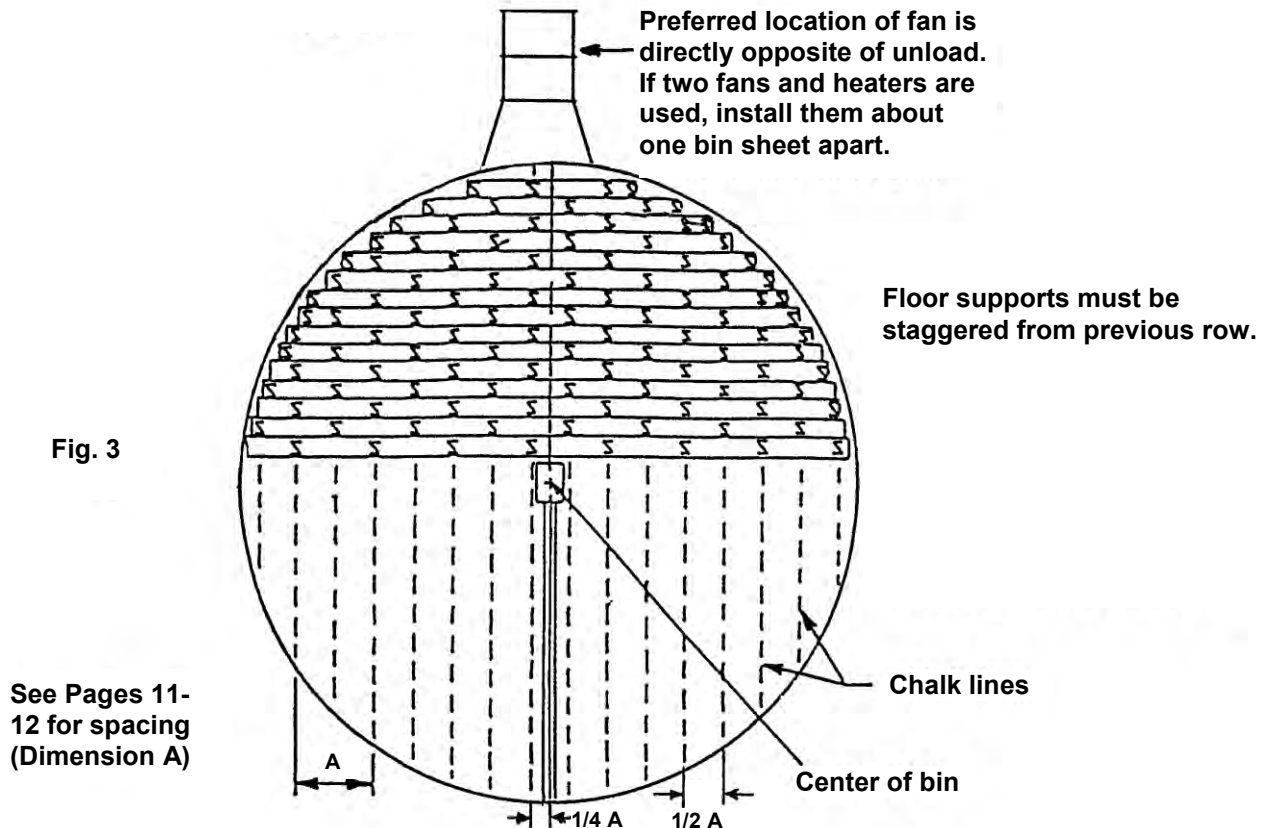
Fig. 2 – Safety decal locations

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.

Z-POST SUPPORTS INSTALLATION INSTRUCTIONS

NOTE: Z-Post supports can be used in bins up to 16 rings tall.

Placement with one fan



NOTICE: Failure to carefully follow installation instructions will void warranty and may cause floor failure.

NOTE: For floor installation instructions using other supports, see the following pages: Super Supports, Pages 13-15; SuperWave Supports, Pages 16-19.

1. Determine exact bin diameter and eave height. See applicable table on Pages 11-12 to determine quantity of floor supports and spacing (Dimension A in Fig. 3) required for each plank.
2. Determine exact center of bin. Mark chalk lines at $\frac{1}{4}$ of support spacing (Dim. A) to left and right of centerline. Continue marking parallel lines toward bin walls at $\frac{1}{2}$ of support spacing. See Fig. 3.

NOTICE: It is essential to mark chalk lines on floor to ensure correct support spacing throughout bin. Even a few incorrectly-spaced supports may cause floor failure.

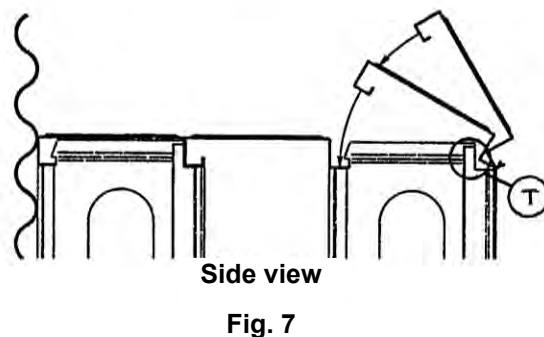
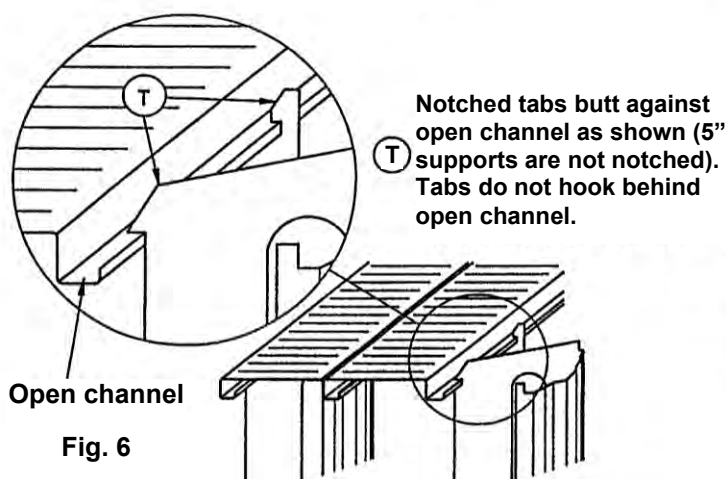
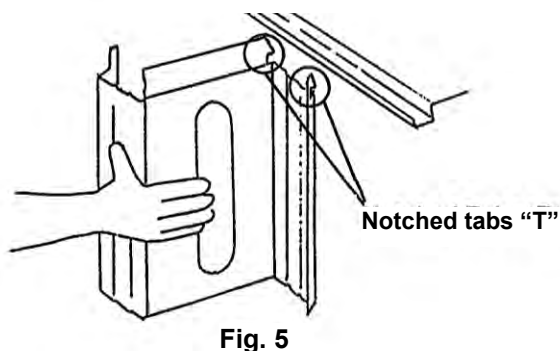
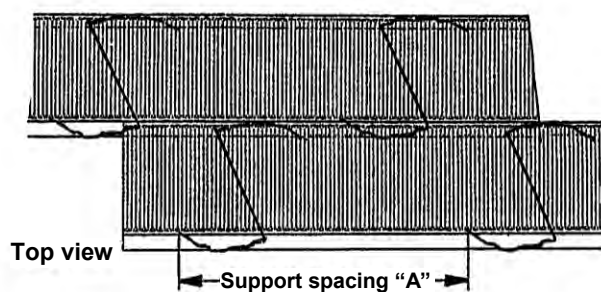
3. Take first plank (shortest) and turn upside down. Place Z-Post floor support into plank. Make sure all upper tabs of support are between channels of floor plank. Insert additional Z-Post supports as needed at required spacing.
4. Place first plank (with supports installed) against bin wall with open channel toward center of bin, ready to receive next plank.

IMPORTANT: Corners of first plank must touch bin wall so flashing will cover gap properly.

5. Position next row of supports at required spacing. Slide each support against open channel of previously installed plank as shown in Fig. 5 so that both notched "T" tabs fit over open channel. See Fig. 6.

NOTE: Do **NOT** hook tab of support under tail of floor plank.

Z SUPPORTS INSTALLATION



6. Place an extra support at end of floor plank if there is more than 7" of overhang. Shorter planks used at start and finish usually require an extra support. Each side of support (if possible) should support two floor planks.
 7. Lay open channel of next floor plank on top of row of supports as shown in Fig. 7. Ensure there is an equal distance from each end of plank to bin wall. Snap plank down into place. Check that all upper tabs of support are between channels of floor plank and are not exposed.
 8. Place next row of supports at designated support spacing so they are offset from previous row by one-half the spacing distance. See Fig. 3. Use chalk lines to ensure correct spacing.
 9. Repeat Steps 5-8.
 10. After installing first few rows of flooring and supports, install a few pieces of flashing to hold floor in place. See Page 34 for flashing installation.
- NOTE:** On smaller bins, flashing may need to be cut across center of perforated section for better fit.
11. Continue floor installation until all supports and planks are installed.
 12. Install remainder of flashing. See Page 34.
 13. Mount "Never Enter Bin" decal and "Safe Operation" decal near bin openings as described in safety packet A3399 (bundled with floor).

IMPORTANT: Make sure concrete is level and floor supports are placed under each floor plank. Stagger supports as shown in Fig. 3.

Z-Post Supports Installation

Z-POST SUPPORT & SPACING FOR HAWK CUT FLOORS

TOTAL NUMBER OF Z-POST SUPPORTS/SPACING*

BIN DIAMETER	20 GA. Z-POST REQUIREMENTS											18 GA. Z-POST REQUIREMENTS											Cont. Flow Bottom Unload **	Recirc- ulator ***																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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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'	61'	62'	63'	64'	65'	66'	67'	68'	69'	70'	71'	72'	73'	74'	75'	76'	77'	78'	79'	80'	81'	82'	83'	84'	85'	86'	87'	88'	89'	90'	91'	92'	93'	94'	95'	96'	97'	98'	99'	100'																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
12'	59 54"	59 54"	63 50"	69 46"	75 41"	80 37"	84 35"	86 32"	90 30"	94 28"	98 26"	104 25"	108 38"	116 35"	120 32"	130 30"	134 28"	143 26"	149 25"	153 32"	159 24"	165 24"	171 24"	177 24"	183 24"	189 24"	195 24"	201 24"	207 24"	213 24"	219 24"	225 24"	231 24"	237 24"	243 24"	249 24"	255 24"	261 24"	267 24"	273 24"	279 24"	285 24"	291 24"	297 24"	303 24"	309 24"	315 24"	321 24"	327 24"	333 24"	339 24"	345 24"	351 24"	357 24"	363 24"	369 24"	375 24"	381 24"	387 24"	393 24"	399 24"	405 24"	411 24"	417 24"	423 24"	429 24"	435 24"	441 24"	447 24"	453 24"	459 24"	465 24"	471 24"	477 24"	483 24"	489 24"	495 24"	501 24"	507 24"	513 24"	519 24"	525 24"	531 24"	537 24"	543 24"	549 24"	555 24"	561 24"	567 24"	573 24"	579 24"	585 24"	591 24"	597 24"	603 24"	609 24"	615 24"	621 24"	627 24"	633 24"	639 24"	645 24"	651 24"	657 24"	663 24"	669 24"	675 24"	681 24"	687 24"	693 24"	699 24"	705 24"	711 24"	717 24"	723 24"	729 24"	735 24"	741 24"	747 24"	753 24"	759 24"	765 24"	771 24"	777 24"	783 24"	789 24"	795 24"	801 24"	807 24"	813 24"	819 24"	825 24"	831 24"	837 24"	843 24"	849 24"	855 24"	861 24"	867 24"	873 24"	879 24"	885 24"	891 24"	897 24"	903 24"	909 24"	915 24"	921 24"	927 24"	933 24"	939 24"	945 24"	951 24"	957 24"	963 24"	969 24"	975 24"	981 24"	987 24"	993 24"	999 24"	1005 24"	1011 24"	1017 24"	1023 24"	1029 24"	1035 24"	1041 24"	1047 24"	1053 24"	1059 24"	1065 24"	1071 24"	1077 24"	1083 24"	1089 24"	1095 24"	1101 24"	1107 24"	1113 24"	1119 24"	1125 24"	1131 24"	1137 24"	1143 24"	1149 24"	1155 24"	1161 24"	1167 24"	1173 24"	1179 24"	1185 24"	1191 24"	1197 24"	1203 24"	1209 24"	1215 24"	1221 24"	1227 24"	1233 24"	1239 24"	1245 24"	1251 24"	1257 24"	1263 24"	1269 24"	1275 24"	1281 24"	1287 24"	1293 24"	1299 24"	1305 24"	1311 24"	1317 24"	1323 24"	1329 24"	1335 24"	1341 24"	1347 24"	1353 24"	1359 24"	1365 24"	1371 24"	1377 24"	1383 24"	1389 24"	1395 24"	1401 24"	1407 24"	1413 24"	1419 24"	1425 24"	1431 24"	1437 24"	1443 24"	1449 24"	1455 24"	1461 24"	1467 24"	1473 24"	1479 24"	1485 24"	1491 24"	1497 24"	1503 24"	1509 24"	1515 24"	1521 24"	1527 24"	1533 24"	1539 24"	1545 24"	1551 24"	1557 24"	1563 24"	1569 24"	1575 24"	1581 24"	1587 24"	1593 24"	1599 24"	1605 24"	1611 24"	1617 24"	1623 24"	1629 24"	1635 24"	1641 24"	1647 24"	1653 24"	1659 24"	1665 24"	1671 24"	1677 24"	1683 24"	1689 24"	1695 24"	1701 24"	1707 24"	1713 24"	1719 24"	1725 24"	1731 24"	1737 24"	1743 24"	1749 24"	1755 24"	1761 24"	1767 24"	1773 24"	1779 24"	1785 24"	1791 24"	1797 24"	1803 24"	1809 24"	1815 24"	1821 24"	1827 24"	1833 24"	1839 24"	1845 24"	1851 24"	1857 24"	1863 24"	1869 24"	1875 24"	1881 24"	1887 24"	1893 24"	1899 24"	1905 24"	1911 24"	1917 24"	1923 24"	1929 24"	1935 24"	1941 24"	1947 24"	1953 24"	1959 24"	1965 24"	1971 24"	1977 24"	1983 24"	1989 24"	1995 24"	2001 24"	2007 24"	2013 24"	2019 24"	2025 24"	2031 24"	2037 24"	2043 24"	2049 24"	2055 24"	2061 24"	2067 24"	2073 24"	2079 24"	2085 24"	2091 24"	2097 24"	2103 24"	2109 24"	2115 24"	2121 24"	2127 24"	2133 24"	2139 24"	2145 24"	2151 24"	2157 24"	2163 24"	2169 24"	2175 24"	2181 24"	2187 24"	2193 24"	2199 24"	2205 24"	2211 24"	2217 24"	2223 24"	2229 24"	2235 24"	2241 24"	2247 24"	2253 24"	2259 24"	2265 24"	2271 24"	2277 24"	2283 24"	2289 24"	2295 24"	2301 24"	2307 24"	2313 24"	2319 24"	2325 24"	2331 24"	2337 24"	2343 24"	2349 24"	2355 24"	2361 24"	2367 24"	2373 24"	2379 24"	2385 24"	2391 24"	2397 24"	2403 24"	2409 24"	2415 24"	2421 24"	2427 24"	2433 24"	2439 24"	2445 24"	2451 24"	2457 24"	2463 24"	2469 24"	2475 24"	2481 24"	2487 24"	2493 24"	2499 24"	2505 24"	2511 24"	2517 24"	2523 24"	2529 24"	2535 24"	2541 24"	2547 24"	2553 24"	2559 24"	2565 24"	2571 24"	2577 24"	2583 24"	2589 24"	2595 24"	2601 24"	2607 24"	2613 24"	2619 24"	2625 24"	2631 24"	2637 24"	2643 24"	2649 24"	2655 24"	2661 24"	2667 24"	2673 24"	2679 24"	2685 24"	2691 24"	2697 24"	2703 24"	2709 24"	2715 24"	2721 24"	2727 24"	2733 24"	2739 24"	2745 24"	2751 24"	2757 24"	2763 24"	2769 24"	2775 24"	2781 24"	2787 24"	2793 24"	2799 24"	2805 24"	2811 24"	2817 24"	2823 24"	2829 24"	2835 24"	2841 24"	2847 24"	2853 24"	2859 24"	2865 24"	2871 24"	2877 24"	2883 24"	2889 24"	2895 24"	2901 24"	2907 24"	2913 24"	2919 24"	2925 24"	2931 24"	2937 24"	2943 24"	2949 24"	2955 24"	2961 24"	2967 24"	2973 24"	2979 24"	2985 24"	2991 24"	2997 24"	3003 24"	3009 24"	3015 24"	3021 24"	3027 24"	3033 24"	3039 24"	3045 24"	3051 24"	3057 24"	3063 24"	3069 24"	3075 24"	3081 24"	3087 24"	3093 24"	3099 24"	3105 24"	3111 24"	3117 24"	3123 24"	3129 24"	3135 24"	3141 24"	3147 24"	3153 24"	3159 24"	3165 24"	3171 24"	3177 24"	3183 24"	3189 24"	3195 24"	3201 24"	3207 24"	3213 24"	3219 24"	3225 24"	3231 24"	3237 24"	3243 24"	3249 24"	3255 24"	3261 24"	3267 24"	3273 24"	3279 24"	3285 24"	3291 24"	3297 24"	3303 24"	3309 24"	3315 24"	3321 24"	3327 24"	3333 24"	3339 24"	3345 24"	3351 24"	3357 24"	3363 24"	3369 24"	3375 24"	3381 24"	3387 24"	3393 24"	3399 24"	3405 24"	3411 24"	3417 24"	3423 24"	3429 24"	3435 24"	3441 24"	3447 24"	3453 24"	3459 24"	3465 24"	3471 24"	3477 24"	3483 24"	3489 24"	3495 24"	3501 24"	3507 24"	3513 24"	3519 24"	3525 24"	3531 24"	3537 24"	3543 24"	3549 24"	3555 24"	3561 24"	3567 24"	3573 24"	3579 24"	3585 24"	3591 24"	3597 24"	3603 24"	3609 24"	3615 24"	3621 24"	3627 24"	3633 24"	3639 24"	3645 24"	3651 24"	3657 24"	3663 24"	3669 24"	3675 24"	3681 24"	3687 24"	3693 24"	3699 24"	3705 24"	3711 24"	3717 24"	3723 24"	3729 24"	3735 24"	3741 24"	3747 24"	3753 24"	3759 24"	3765 24"	3771 24"	3777 24"	3783 24"	3789 24"	3795 24"	3801 24"	3807 24"	3813 24"	3819 24"	3825 24"	3831 24"	3837 24"	3843 24"	3849 24"	3855 24"	3861 24"	3867 24"	3873 24"	3879 24"	3885 24"	3891 24"	3897 24"	3903 24"	3909 24"	3915 24"	3921 24"	3927 24"	3933 24"	3939 24"	3945 24"	3951 24"	3957 24"	3963 24"	3969 24"	3975 24"	3981 24"	3987 24"	3993 24"	3999 24"	4005 24"	4011 24"	4017 24"	4023 24"	4029 24"	4035 24"	4041 24"	4047 24"	4053 24"	4059 24"	4065 24"	4071 24"	4077 24"	4083 24"	4089 24"	4095 24"	4101 24"	4107 24"	4113 24"	4119 24"	4125 24"	4131 24"	4137 24"	4143 24"	4149 24"	4155 24"	4161 24"	4167 24"	4173 24"	4179 24"	4185 24"	4191 24"	4197 24"	4203 24"	4209 24"	4215 24"	4221 24"	4227 24"	4233 24"	4239 24"	4245 24"	4251 24"	4257 24"	4263 24"	4269 24"	4275 24"	4281 24"	4287 24"	4293 24"	4299 24"	4305 24"	4311 24"	4317 24"	4323 24"	4329 24"	4335 24"	4341 24"	4347 24"	4353 24"	4359 24"	4365 24"	4371 24"	4377 24"	4383 24"	4389 24"	4395 24"	4401 24"	4407 24"	4413 24"	4419 24"	4425 24"	4431 24"	4437 24"	4443 24"	4449 24"	4455 24"	4461 24"	4467 24"	4473 24"	4479 24"	4485 24"	4491 24"	4497 24"	4503 24"	4509 24"	4515 24"	4521 24"	4527 24"	4533 24"	4539 24"	4545 24"	4551 24"	4557 24"	4563 24"	4569 24"	4575 24"	4581 24"	4587 24"	4593 24"	4599 24"	4605 24"	4611 24"	4617 24"	4623 24"	4629 24"	4635 24"	4641 24"	4647 24"	4653 24"	4659 24"	4665 24"	4671 24"	4677 24"	4683 24"	4689 24"	4695 24"	4701 24"	4707 24"	4713 24"	4719 24"	4725 24"	4731 24"	4737 24"	4743 24"	4749 24"	4755 24"	4761 24"	4767 24"	4773 24"	4779 24"	4785 24"	4791 24"	4797 24"	4803 24"	4809 24"	4815 24"	4821 24"	4827 24"	4833 24"	4839 24"	4845 24"	4851 24"	4857 24"	4863 24"	4869 24"	4875 24"	4881 24"	4887 24"	4893 24"	4899 24"	4905 24"	4911 24"	4917 24"	4923 24"	4929 24"	4935 24"	4941 24"	4947 24"	4953 24"	4959 24"	4965 24"	4971 24"	4977 24"	4983 24"	4989 24"	4995 24"	5001 24"	5007 24"	5013 24"	5019 24"	5025 24"	5031 24"	5037 24"	5043 24"	5049 24"	5055 24"	5061 24"	5067 24"	5073 24"	5079 24"	5085 24"	5091 24"	5097 24"	5103 24"	5109 24"	5115 24"	5121 24"	5127 24"	5133 24"	5139 24"	5145 24"	5151 24"	5157 24"	5163 24"	5169 24"	5175 24"	5181 24"	5187 24"	5193 24"	5199 24"	5205 24"	5211 24"	5217 24"	5223 24"	5229 24"	5235 24"	5241 24"	5247 24"	5253 24"	5259 24"	5265 24"	5271 24"	5277 24"	5283 24"	5289 24"	5295 24"	5301 24"	5307 24"	5313 24"	5319 24"	5325 24"	5331 24"	5337 24"	5343 24"	5349 24"	5355 24"	5361 24"	5367 24"	5373 24"	5379 24"	5385 24"	5391 24"	5397 24"	5403 24"	5409 24"	5415 24"	5421 24"	5427 24"	5433 24"	5439 24"	5445 24"	5451 24"	5457 24"	5463 24"	5469 24"	5475 24"	5481 24"	5487 24"	5493 24"	5499 24"	5505 24"	5511 24"	5517 24"	5523 24"	5529 24"	5535 24"	5541 24"	5547 24"	5553 24"	5559 24"	5565 24"	5571 24"	5577 24"	5583 24"	5589 24"	5595 24"	5601 24"	5607 24"	5613 24"	5619 24"	5625 24"	5631 24"	5637 24"	5643 24"	5649 24"	565

*Example: 59 54" indicates a total of 59 supports at 54" spacing on each plank.

**Continuous-flow Bottom Unload: Use 20 ga. supports. Additional supports are required around center sump. Maximum grain depth is 20'.

***For Recirculation devices: Use 20 ga. supports with Hawk Cut flooring. Additional supports are placed around center sump. Maximum grain depth is 20'. Stirring machines are not recirculators. Therefore, support spacing is based on eave height.

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Z-POST SUPPORTS & SPACING FOR .094 (STANDARD) & .050 PERFORATED CHANNEL- LOK FLOORS

TOTAL NUMBER OF Z-POST SUPPORTS/SPACING*

		20 GA. PERF. FLOORS - .094 (STD) OR .050 available up to 48' Diameter only								Cont. Flow Bottom Unload **			
		20 GA. Z-POST REQUIREMENTS											
		# OF RINGS - SUKUP BINS (44" RING HEIGHT)											
		3 & 4		5		6		7				8	
BIN DIAMETER		EAVE HEIGHT (FEET)											
		16'		17' - 19'		20' - 22'		23' - 26'				27' - 30'	
12'		59	54"	59	54"	63	50"	69	46"	75	41"	112	24"
15'		85	54"	85	54"	88	50"	94	46"	100	41"	159	24"
16' 5" (5M)		96	54"	96	54"	106	50"	110	46"	117	41"	195	24"
18'		120	54"	120	54"	126	49"	133	45"	145	40"	230	24"
18' 7"		136	54"	136	54"	146	49"	156	45"	168	40"	245	24"
19'		136	54"	136	54"	146	49"	156	45"	168	40"	258	24"
19' 8" (6M)		142	54"	146	53"	158	49"	168	44"	184	40"	276	24"
21'		158	54"	160	53"	170	49"	186	44"	198	40"	305	24"
21' 8"		175	54"	179	53"	187	49"	206	44"	218	40"	328	24"
22' 11" (7M)		187	54"	191	53"	200	49"	218	44"	238	40"	368	24"
24'		199	54"	214	50"	220	48"	230	44"	258	39"	394	24"
24' 9"		216	54"	236	50"	240	48"	257	44"	282	39"	422	24"
26' 3" (8M)		252	50"	252	50"	254	48"	281	43"	310	38"	482	24"
27'		262	50"	262	50"	273	48"	295	43"	324	38"	497	24"
27' 10"		288	50"	288	50"	298	48"	322	43"	355	38"	532	24"
29' 6" (9M)		320	50"	320	50"	360	44"	367	42"	401	38"	602	24"
30'		320	50"	320	50"	360	44"	367	42"	401	38"	612	24"
31'		341	50"	341	50"	378	44"	398	42"	434	38"	662	24"
33'		378	50"	378	50"	424	44"	466	40"	506	37"	733	24"
34'		416	50"	416	50"	459	44"	498	40"	536	37"	798	24"
36'		455	50"	455	50"	508	44"	552	40"	588	37"	878	24"
36' 1" (11M)		455	50"	455	50"	508	44"	552	40"	588	37"	893	24"
37' 1"		493	50"	493	50"	544	44"	592	40"	634	37"	938	24"
42' Split		670	50"	738	44"	738	44"	801	40"	878	36"		
42' 8" (13M) Split		712	50"	790	44"	790	44"	855	40"	930	36"		
43' 3" Split		712	50"	790	44"	790	44"	855	40"	930	36"		
48' Split		848	50"	955	44"	967	43"	1128	36"	1152	35"		

*Example: 59 54" indicates a total of 59 supports at 54" spacing on each plank.

**Continuous-flow Bottom Unload: Use 20 ga. supports. Additional supports are required around center sump. Maximum grain depth is 20'.

NOTE: If bin has a recirculating device, see previous page. Stirring machines are not recirculators. Therefore, support spacing is based on eave height.

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SUPER SUPPORTS INSTALLATION

Includes Standard Super Supports and Flat Top Super Supports

Fig. 8 shows a Full Super Support, which is also available with a flat top. Fig. 9 shows a Double Super Support, which can be used with either standard or flat top Super Support. **NOTE:** Double Super Supports can be cut in half to use as singles.

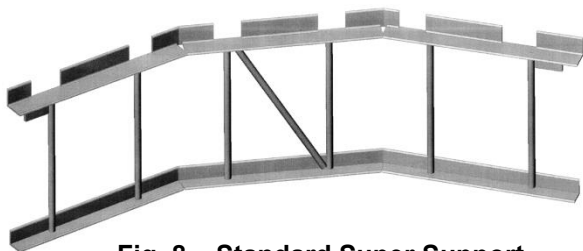


Fig. 8 – Standard Super Support

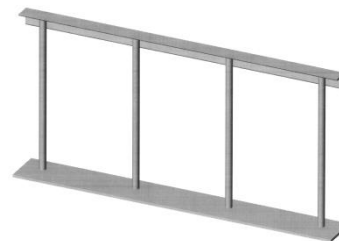


Fig. 9 – Double Super Support

See Super Supports requirements on Page 15:

With recirculation devices, center half of bin is on 11" spacing; outside half is at 22". Use 20ga Hawk Cut flooring.

NOTE: With Continuous Flow Bottom Unload and Recirculation devices, maximum grain depth is 20'. These specifications are for Hawk Cut floors. Place additional supports around center sump. Stirring machines are not recirculators; therefore, support spacing is based on eave height.

Key:

1	2
3	4

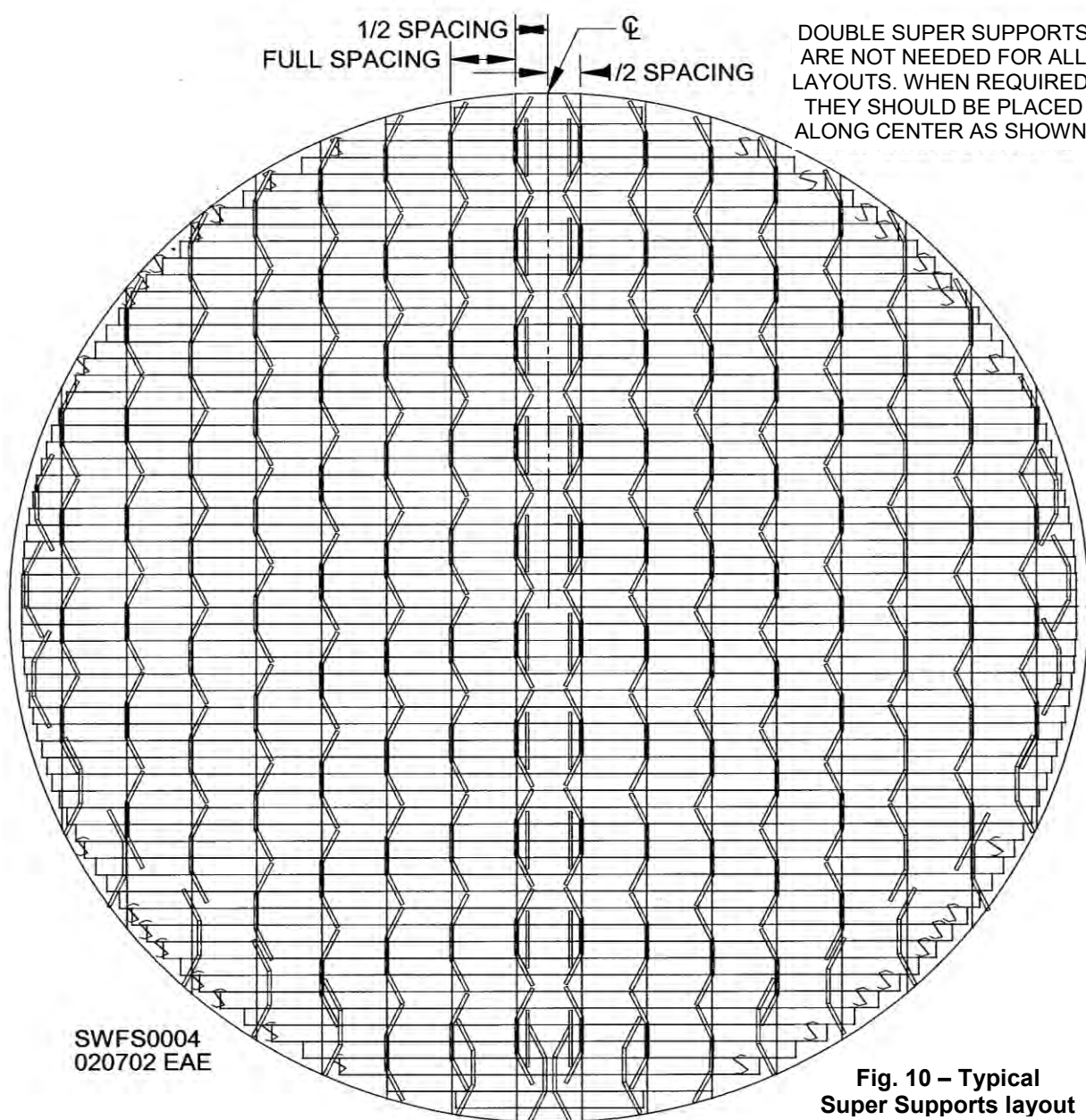
1 = Number of Full Super Supports 2 = Super Support Spacing in inches
3 = Number of Z Supports (z) 4 = Number of Double Super Supports (d)

Installation Steps for Standard 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 15. 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 Super Supports on three or four lines marked on floor on each side of centerline as shown in Fig. 10. Add Double Super Supports to Super Supports closest to center of bin as shown in Fig. 10 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 channel runs through cutouts in supports.
7. Place a Z-Post 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.

Super Supports Installation

8. Place next plank in bin, adjusting supports as needed to ensure plank channels fit into cutouts in supports. 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.
11. After installing first few rows of flooring and supports, install a few pieces of flashing to hold floor in place. See Page 34 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).



**Fig. 10 – Typical
Super Supports layout**

Super Supports Installation

SUPER SUPPORT REQUIREMENTS

BIN		HAWK CUT AVAILABLE IN ALL SIZES 20 GA. PERF. AVAILABLE UP TO 48" DIA. ONLY # OF RINGS - SUKUP BINS (44" RING HEIGHT)																HAWK CUT ONLY # OF RINGS - SUKUP BINS (44" RING HEIGHT)																CONTINUOUS FLOW BOTTOM UNLOAD		RECIRCULATOR	
		EAVE HEIGHT (FEET)																EAVE HEIGHT (FEET)																			
DIAMETER		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" - 74"	75" - 81"	16"	17"	18"	19 & 20"	21 & 22"														
12"	16"	307	16	12	16	20	22	26	18	26	18	34	14	34	14	32	40	12	18	28	24	11	44	75" - 81"													
15"	122	307	26	30	28	26	34	22	40	18	48	14	50	14	58	13	58	12	70	11	74	10	62	8d													
16" 5" (5M)	102	307	26	30	28	26	34	22	40	18	48	14	50	14	58	13	58	12	70	11	74	10	62	10d													
	122	307	26	30	28	26	34	22	40	18	48	14	50	14	58	13	58	12	70	11	74	10	62	10d													
18"	222	307	26	30	28	26	34	22	40	18	48	14	50	14	58	13	58	12	70	11	74	10	62	10d													
	142	307	34	30	34	30	36	26	44	22	52	18	66	14	66	14	74	13	86	11	86	12	44	10d													
18" 7"	162	307	34	30	34	30	36	26	44	22	52	18	66	14	66	14	74	13	86	11	86	12	44	10d													
	182	307	34	30	34	30	41	26	50	22	60	18	74	14	74	14	84	13	90	11	106	11	106	10d													
19"	222	307	34	30	34	30	41	26	50	22	60	18	74	14	74	14	84	13	90	11	106	11	106	10d													
	142	307	34	30	34	30	44	26	54	22	62	18	76	14	76	14	84	13	92	11	104	11	104	44													
19" 8" (6M)	222	307	42	30	42	30	46	26	54	22	68	18	76	14	76	14	84	13	96	11	104	11	104	44													
	142	307	42	30	42	30	46	26	54	22	68	18	76	14	76	14	84	13	96	11	104	11	104	44													
21"	222	307	46	30	46	30	54	26	58	22	74	18	76	14	76	14	84	13	108	11	112	10	112	44													
	182	307	46	30	46	30	54	26	58	22	74	18	76	14	76	14	84	13	108	11	112	10	112	44													
21" 8"	222	307	48	30	48	30	56	26	64	22	76	18	82	14	76	14	84	13	114	11	120	11	120	44													
	182	307	48	30	48	30	56	26	64	22	76	18	82	14	76	14	84	13	114	11	120	11	120	44													
22" 11" (7M)	54	307	54	30	54	30	62	26	74	22	88	18	92	14	76	14	84	13	128	11	136	10	136	44													
	202	307	54	30	54	30	62	26	74	22	88	18	92	14	76	14	84	13	128	11	136	10	136	44													
24"	58	307	58	30	58	30	64	26	76	22	92	18	104	14	76	14	84	13	144	11	156	10	156	44													
	202	307	58	30	58	30	64	26	76	22	92	18	104	14	76	14	84	13	144	11	156	10	156	44													
24" 9"	262	307	58	30	58	30	70	26	78	22	108	18	106	14	76	14	84	13	156	11	172	10	172	44													
	182	307	58	30	58	30	70	26	78	22	108	18	106	14	76	14	84	13	156	11	172	10	172	44													
26" 3" (8M)	262	307	68	30	68	30	78	26	84	22	118	18	112	14	76	14	84	13	168	11	184	10	184	44													
	182	307	68	30	68	30	78	26	84	22	118	18	112	14	76	14	84	13	168	11	184	10	184	44													
27"	302	307	74	30	74	30	84	26	84	22	126	18	120	14	76	14	84	13	174	11	188	10	188	44													
	202	307	74	30	74	30	84	26	84	22	126	18	120	14	76	14	84	13	174	11	188	10	188	44													
27" 10"	302	307	78	30	78	30	88	26	88	22	132	18	124	14	76	14	84	13	184	11	196	10	196	44													
	202	307	78	30	78	30	88	26	88	22	132	18	124	14	76	14	84	13	184	11	196	10	196	44													
29" 6" (9M)	382	307	84	30	84	30	98	26	112	22	138	18	138	14	76	14	84	13	208	11	224	10	224	44													
	282	307	84	30	84	30	98	26	112	22	138	18	138	14	76	14	84	13	208	11	224	10	224	44													
30"	90	307	90	30	90	30	102	26	120	22	146	18	146	14	76	14	84	13	216	11	236	10	236	44													
	202	307	90	30	90	30	102	26	120	22	146	18	146	14	76	14	84	13	216	11	236	10	236	44													
31"	100	307	100	30	100	30	108	26	128	22	154	18	154	14	76	14	84	13	232	11	252	10	252	44													
	222	307	100	30	100	30	108	26	128	22	154	18	154	14	76	14	84	13	232	11	252	10	252	44													
33"	104	307	104	30	104	30	122	26	140	22	160	18	160	14	76	14	84	13	248	11	268	10	268	44													
	422	307	104	30	104	30	122	26	140	22	160	18	160	14	76	14	84	13	248	11	268	10	268	44													
34"	110	307	110	30	110	30	124	26	150	22	166	18	166	14	76	14	84	13	256	11	276	10	276	44													
	302	307	110	30	110	30	124	26	150	22	166	18	166	14	76	14	84	13	256	11	276	10	276	44													
36"	126	307	126	30	126	30	148	26	170	22	186	18	186	14	76	14	84	13	288	11	308	10	308	44													
	342	307	126	30	126	30	148	26	170	22	186	18	186	14	76	14	84	13	288	11	308	10	308	44													
36" 1" (11M)	128	307	128	30	128	30	148	26	170	22	186	18	186	14	76	14	84	13	288	11	308	10	308	44													
	282	307	128	30	128	30	148	26	170	22	186	18	186	14	76	14	84	13	288	11	308	10	308	44													
37" 1"	136	307	136	30	136	30	154	26	182	22	198	18	198	14	76	14	84	13	304	11	324	10	324	44													
	342	307	136	30	136	30	154	26	182	22	198	18	198	14	76	14	84	13	304	11	324	10	324	44													
42" Split	168	307	192	26	192	26	224	22	248	22	272	18	278	14	76	14	84	13	320	11	340	10	340	44													
	1582	307	192	26	192	26	224	22	248	22	272	18	278	14	76	14	84	13	320	11	340	10	340	44													
42" 8" (13M)	172	307	200	26	200	26	238	22	268	22	292	18	298	14	76	14	84	13	328	11	348	10	348	44													
	1142	307	200	26	200	26	238	22	268	22	292	18	298	14	76	14	84	13	328	11	348	10	348	44													
43" 3" Split	1602	307	206	26	206	26	240	22	272	22	296	18	302	14	76	14	84	13	336	11	356	10	356	44													
	1682	307	206	26	206	26	240	22	272	22	296	18	302	14	76	14	84	13	336	11	356	10	356	44													
48" Split	250	26	250	26	250	26	296	22	358	18	358	18	358	14	76	14	84	13	360	11	380	10	380	44													
	1842	307	250	26	250	26	296	22	358	18	358	18	358	14	76	14	84	13	360	11	380	10	380	44													
49" 3" (15M)	264	26	264	26	264	26	308	22	374	18	374	18	374	14	76	14	84	13	368	11	388	10	388	44													
	1882	307	264	26	264	26	308	22	374	18	374	18	374	14	76	14	84	13	368	11	388	10	388	44													
54" Split	322	26	322	26	322	26	374	22	448	18	448	18	448	14	76	14	84	13	376	11	396	10	396	44													
	2202	307	322	26	322	26	374	22	448	18	448	18	448	14	76	14	84	13	376	11	396	10	396	44													
55" 8" Split	332	26	332	26	332	26	396	22	482	18	482	18	482	14	76	14	84	13	384	11	404	10	404	44													
	2162	307	332	26	332	26	396	22	482	18	482	18	482	14	76	14	84	13	384	11	404	10	404	44													
59" 1" (18M)	378	26	378	26	378	26	440	22	542	18	542	18	542	14	76	14	84	13	392	11	412	10	412	44													
	2742	307	378	26	378	26	440	22	542	18	542	18	542	14	76	14	84	13	392	11	412	10	412	44													
60" Split	386	26	386	26	386	26	452	22	554	18	554	18	554	14	76	14	84	13	400	11	420	10	420	44													
	2322	307	386	26	386	26	452	22	554	18	554	18	554	14	76	14	84	13	400	11	420	10	420	44													
61" 10" Split	416	26	416	26	416	26	484	22	594	18	594	18	594	14	76	14	84	13	408	11	428	10	428	44													
	2442	307	416	26	416	26	484	22	594	18	594	18	594	14	76	14	84	13	408	11																	

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SUPERWAVE SUPPORTS INSTALLATION

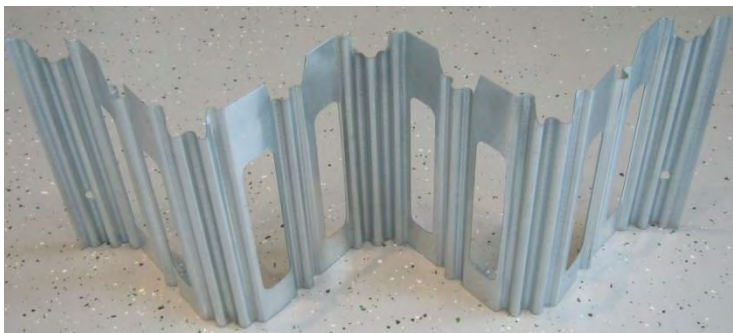


Image 1 – Full SuperWave Support

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 applicable table on following pages.
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 2. 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 2 – Positioning SuperWave Supports



Image 3 – Marking bin wall, installing first plank

6. Mark center of shortest floor plank. Position plank as shown in Image 3 so middle of plank lines up with mark on bin wall.
7. Tilting plank upward, place channel of plank into cutout of SuperWave Support. Ensure channel is between first and second tabs of all SuperWave Supports, then lower plank into place until seated firmly.
8. Shorter planks used at start and finish usually require an extra support, as do split planks. See tables on Pages 18 and 31 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.
11. After installing first few rows of flooring and supports, install a few pieces of flashing to hold floor in place. See Page 34 for flashing installation.



Fig. 11 – Maximum end-to-end gap is 4-11/16" for Hawk Cut flooring

12. Continue adding SuperWave Supports as installation of flooring moves toward center of bin. **NOTICE:** Ensure that supports stay centered on floor lines. **For Hawk Cut flooring there can be 4-11/16" end-to-end gaps between SuperWave supports as shown in Fig. 11. Both ribs 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 30.

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 20-29. 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 is used in bin.

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

Fig. 12 shows typical SuperWave spacing in 36' diameter bin, with Z-Posts used to eliminate plank overhangs along sidewall.

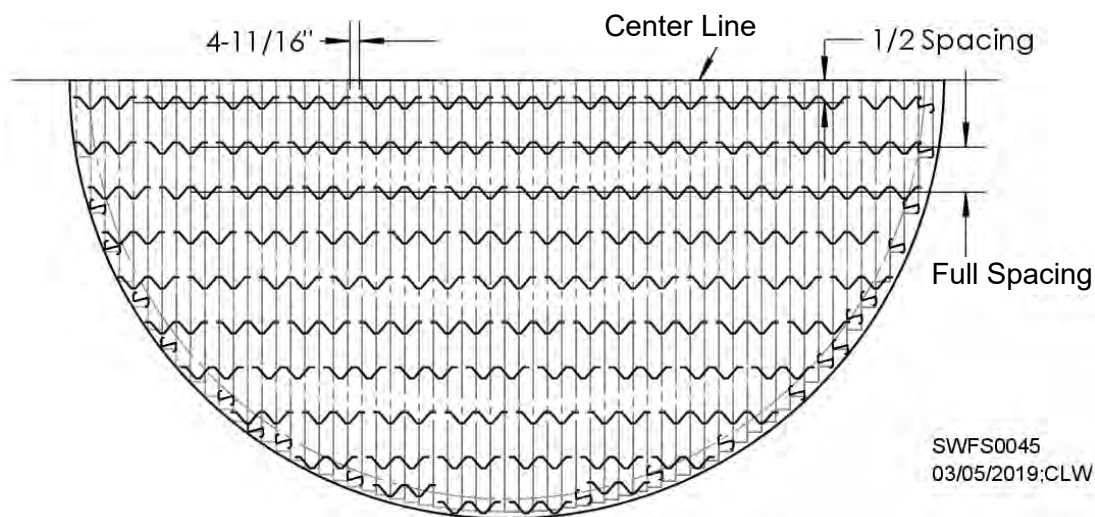


Fig. 12 – Typical SuperWave spacing in 36' dia. bin w/ Hawk Cut flooring

BIN DIA.	# OF RINGS	
	3-16	17-24
15' - 21'	7"	6"
24' - 30'	7"	5-1/2"
33' - 48'	7"	5"
54' - 78'	7"	4"
90' - 105'	7"	3"

Max. overhang of Hawk Cut

SuperWave Supports Installation

SUPERWAVE™ SUPPORT REQUIREMENTS FOR HAWK CUT FLOORS

HAWK CUT AVAILABLE IN ALL SIZES: 20 GA. PERF. AVAILABLE UP TO 48" DIA. 8 RINGS ONLY		HAWK CUT ONLY # OF RINGS - SUKUP BINS (44" RING HEIGHT)																									
# OF RINGS - SUKUP BINS (44" RING HEIGHT)		EAVE HEIGHT (FEET)																									
3 & 4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24							
BIN DIA.	16"	17 1/8"	20" x 22"	23" x 26"	27" x 30"	31" x 33"	34" x 37"	38" x 41"	42" x 44"	45" x 48"	49" x 52"	53" x 56"	57" x 59"	60" x 63"	64" x 66"	67" x 70"	71" x 74"	75" x 77"	78" x 81"	82" x 85"							
12	19	31	19	29	19	30	24	25	24	23	28	19	30	18	30	17	30	15	32	15	38	14	38	14	38	13	86-88"
13	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	90
15	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	93
16 5/8 (6M)	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	96
18	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	99
18 7/8	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	102
19	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	105
19 1/8 (6M)	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	108
21	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	111
21 1/8	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	114
22 1/4 (7M)	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	117
24	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	120
24 9/16	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	123
26 3/8 (6M)	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	126
27	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	129
27 1/8	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	132
27 1/2	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	135
28 3/8 (6M)	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	138
30	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	141
31	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	144
33	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	147
34	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	150
36	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	153
36 1/4 (11M)	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	156
37 1/4	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	159
42 Split	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	162
42 8" (13M)	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	165
43 3/4 Split	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	168
48 Split	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	171
49 3/4 (15M)	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	174
54 Split	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	177
55 9" Split	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	180
59 1/4 (16M)	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	183
60 Split	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	186
61 10" Split	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	189
72 Split	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	192
75 Split	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	195
76 Double	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	198
80 Double	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	201
105 Dbl.	20	32	20	30	20	31	25	26	25	24	29	20	31	19	31	18	31	16	33	16	39	15	39	15	39	13	204

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SuperWave Support Requirements for standard 7" plank Hawk Cut and Perforated floors.

Key: 1 = Number of SuperWave Supports
2 = SuperWave Support Spacing in inches
3 = Number of Z-Post Supports (z)

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.

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Bridging locations & Kit # (P5110 or P5111)

Fig. 13 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.

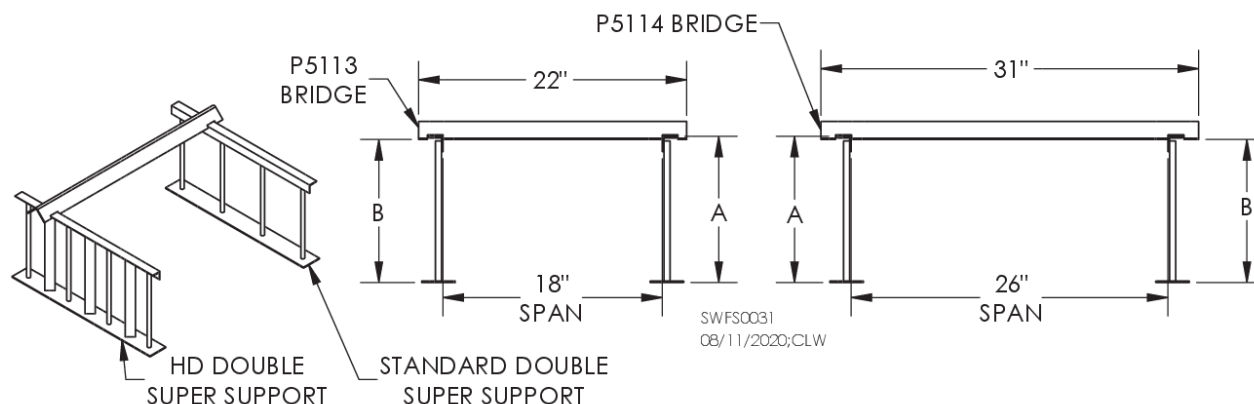


Fig. 13 – Bridge dimensions per Double Super Support height

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"

. Dimension A is from bin pad to bottom of bridging tube. Dimension B is from bin pad to bottom of holder "fingers".

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. 14.

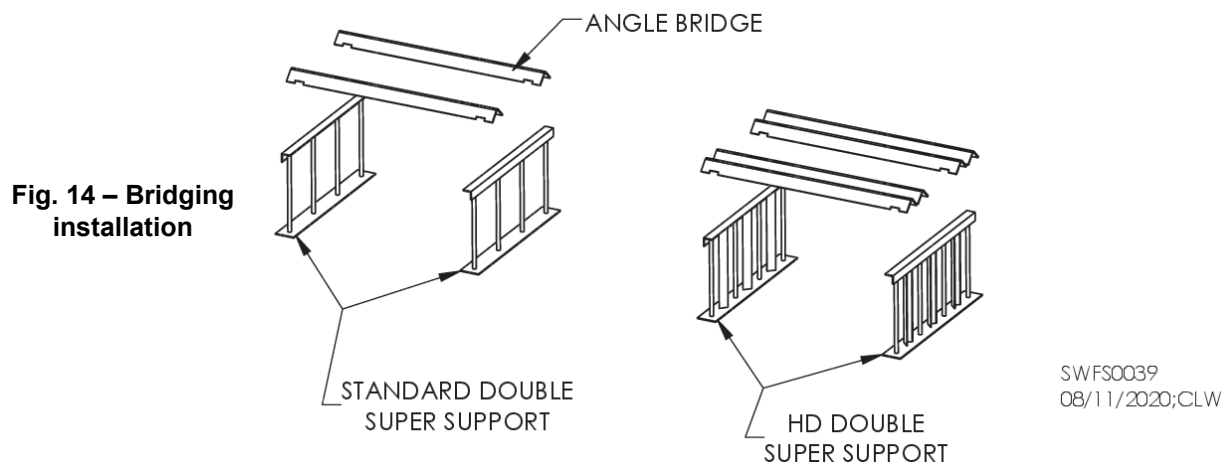


Fig. 15 shows side views of bridging under various floor plank types. Bridging must be at center of each plank. **IMPORTANT:** If only one bridge is required under a Heavy Duty plank, it must be under the same channel of each plank.

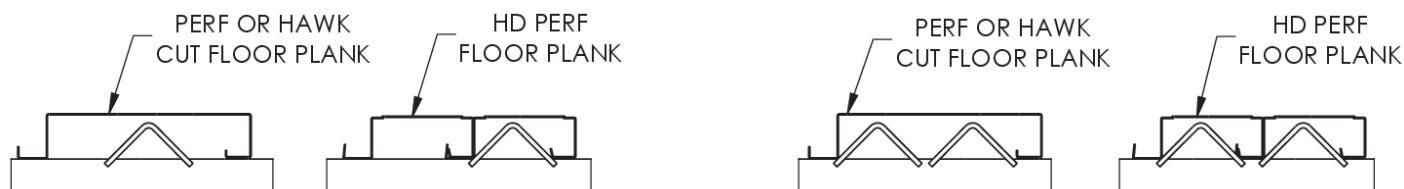


Fig. 15 – Centering bridges under planks

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 7" Hawk Cut or 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'
10	8	6	19	18	16

P5114 bridge limits for 7" Hawk Cut or Perf. by bin diameter & number of rings (shaded)

Example:

- An 8" Sweepway in a 42' dia., 7-ring bin with Hawk Cut flooring and SuperWave supports requires support spacing of 21", according to table on Page 19. Since center sump gate is 23-1/2" wide (See upper table on Page 20), neither SuperWaves nor Double Super Supports can be used at center sump gate opening, so bridging is needed above void for sump gate. Since unload is 8" wide, SuperWaves can be used on one side of unload tube at normal 21" spacing. On clutch rod side, SuperWave would interfere with rod, so Double Super Supports must be used between unload tube and clutch rod. See Fig. 16. **NOTE:** See Fig. 20 for widths of SuperWave, Z-Post and 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 as shown in Fig. 3. Spacing shown in following tables is "A" spacing.

Supporting Floor over Sweepway

Fig. 16 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.

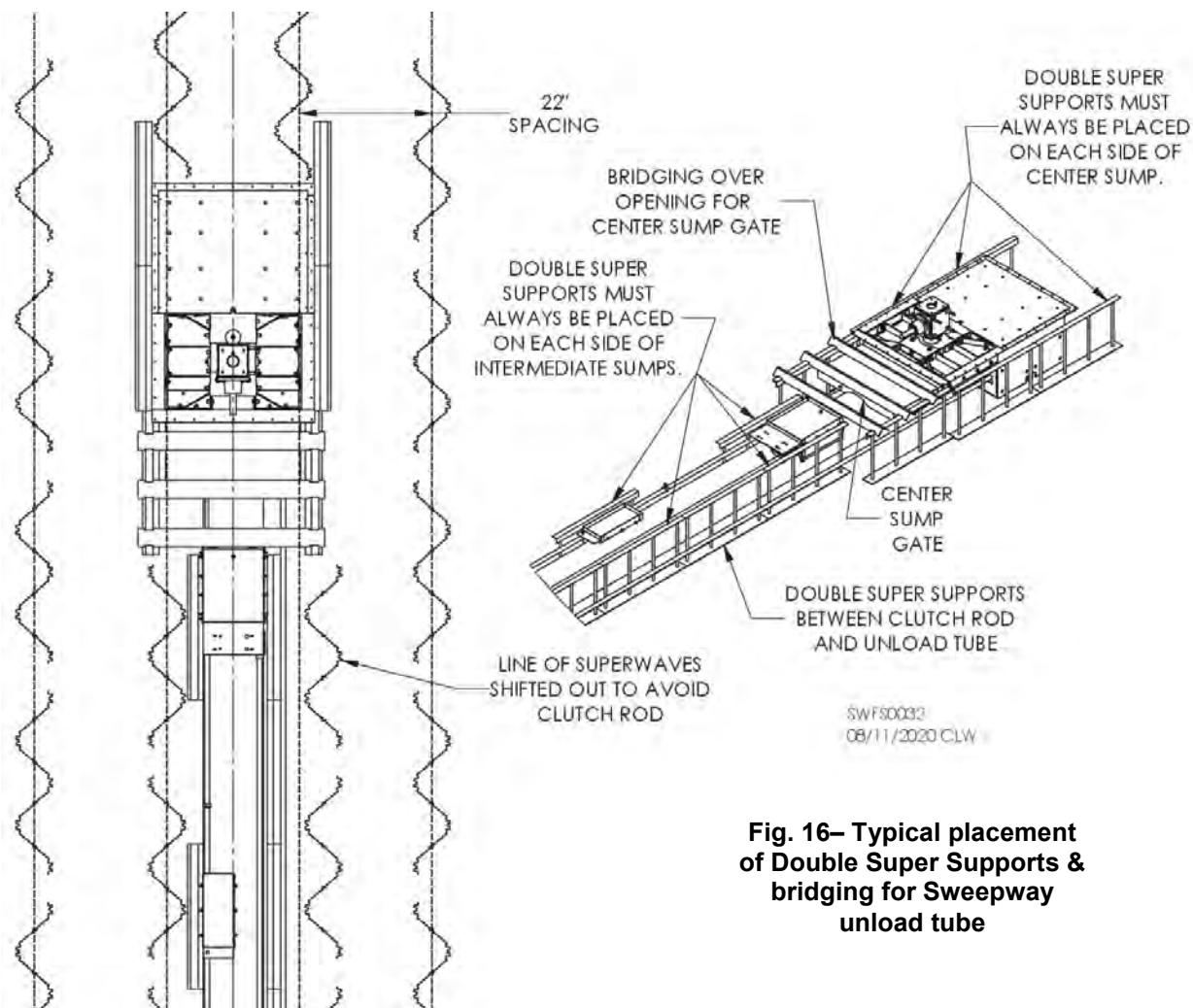


Fig. 16– Typical placement of Double Super Supports & bridging for Sweepway unload tube

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. 17 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".

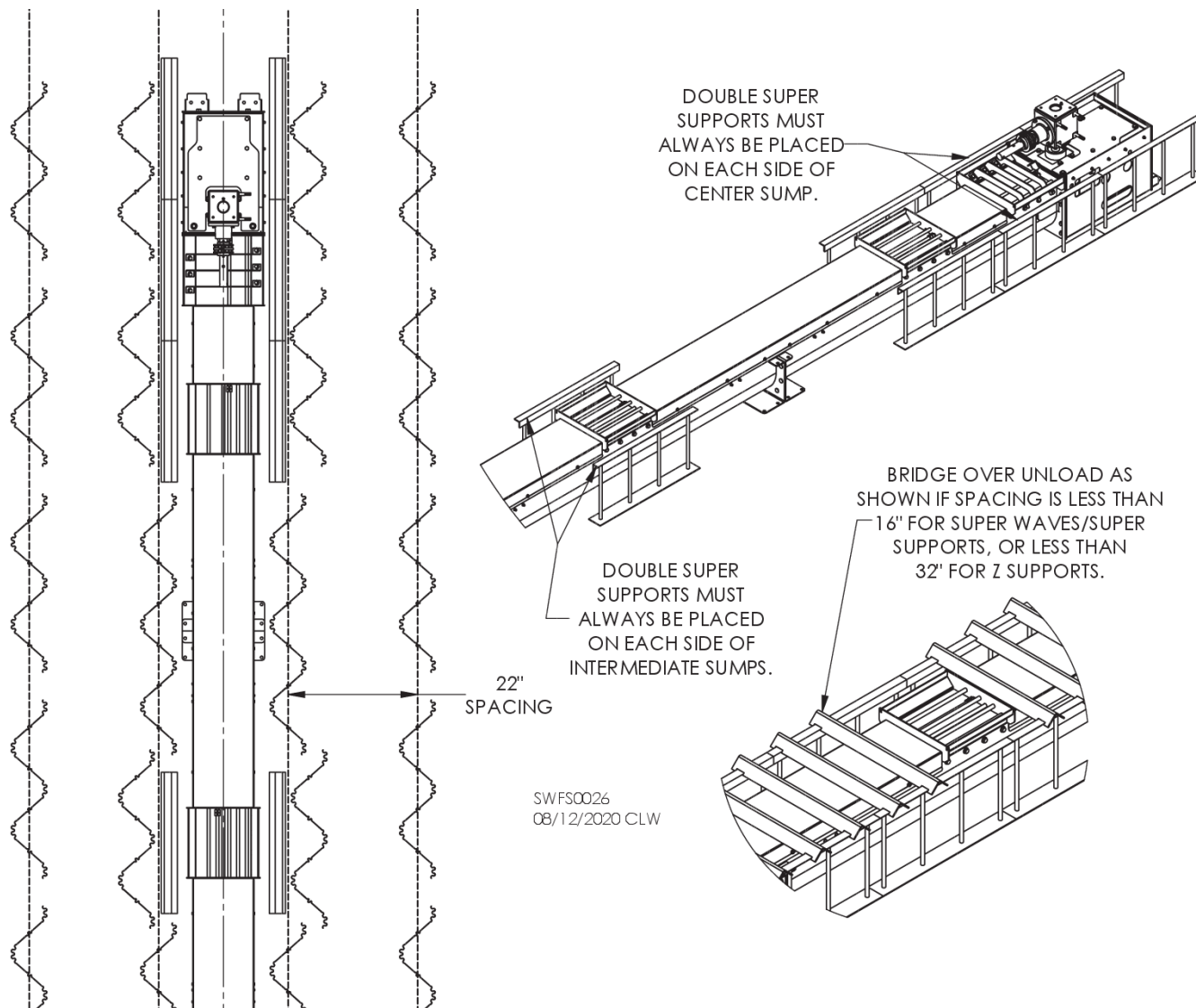


Fig. 17 – Typical placement of Double Super Supports and bridging for U-Trough

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

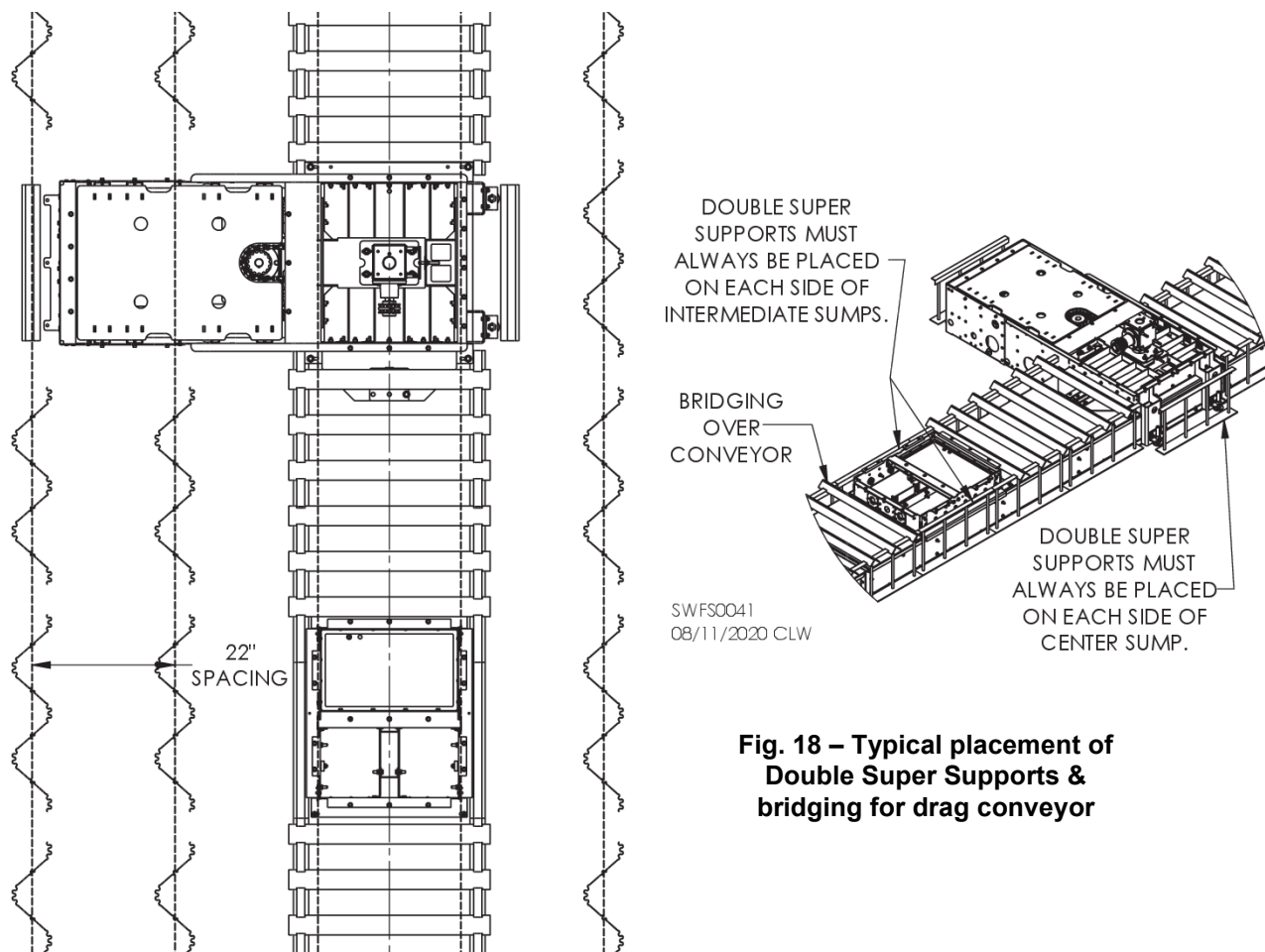


Fig. 18 – Typical placement of Double Super Supports & bridging for drag conveyor

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. 19 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.

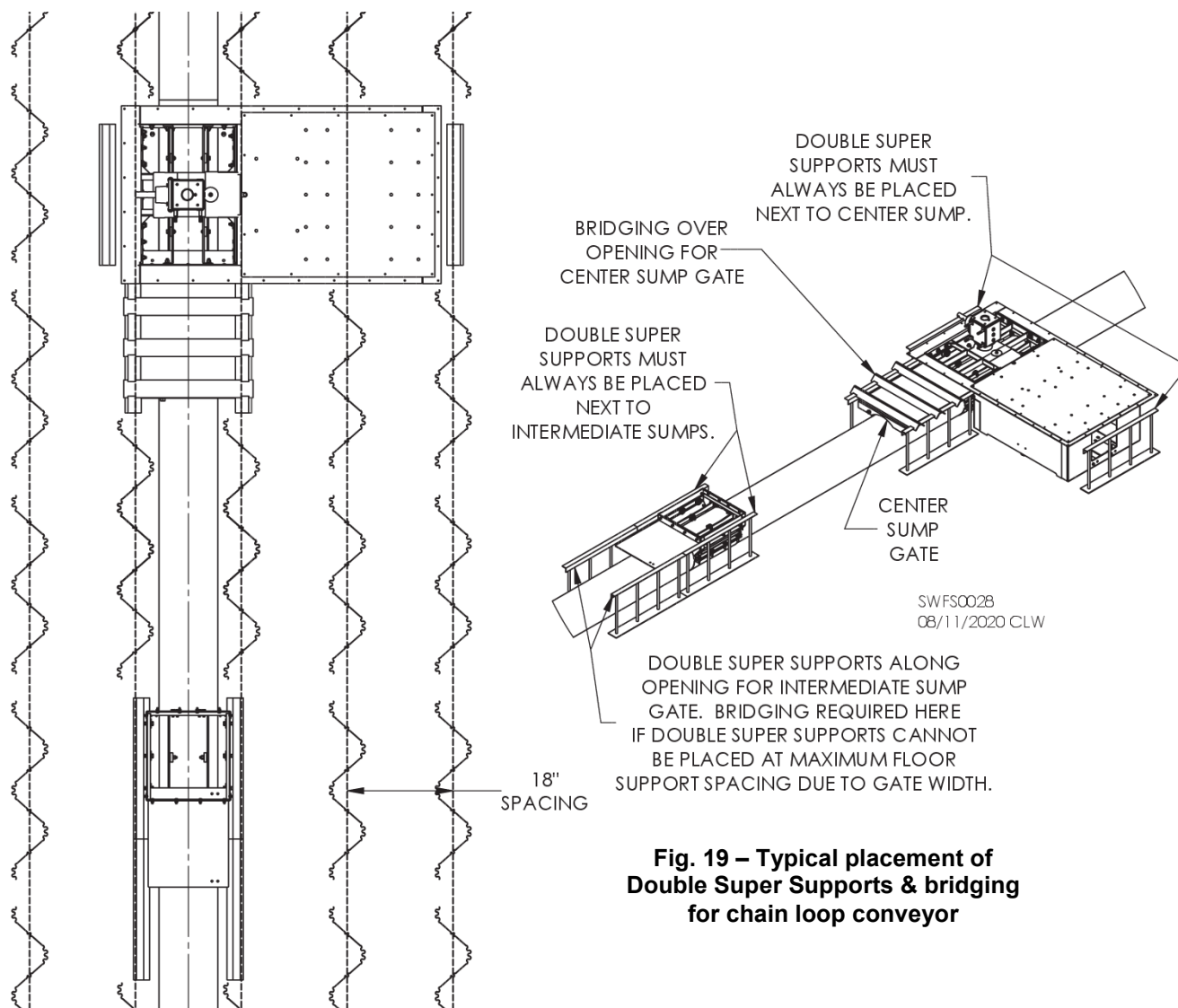


Fig. 19 – Typical placement of Double Super Supports & bridging for chain loop conveyor

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 flooring 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 22 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. 20 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.

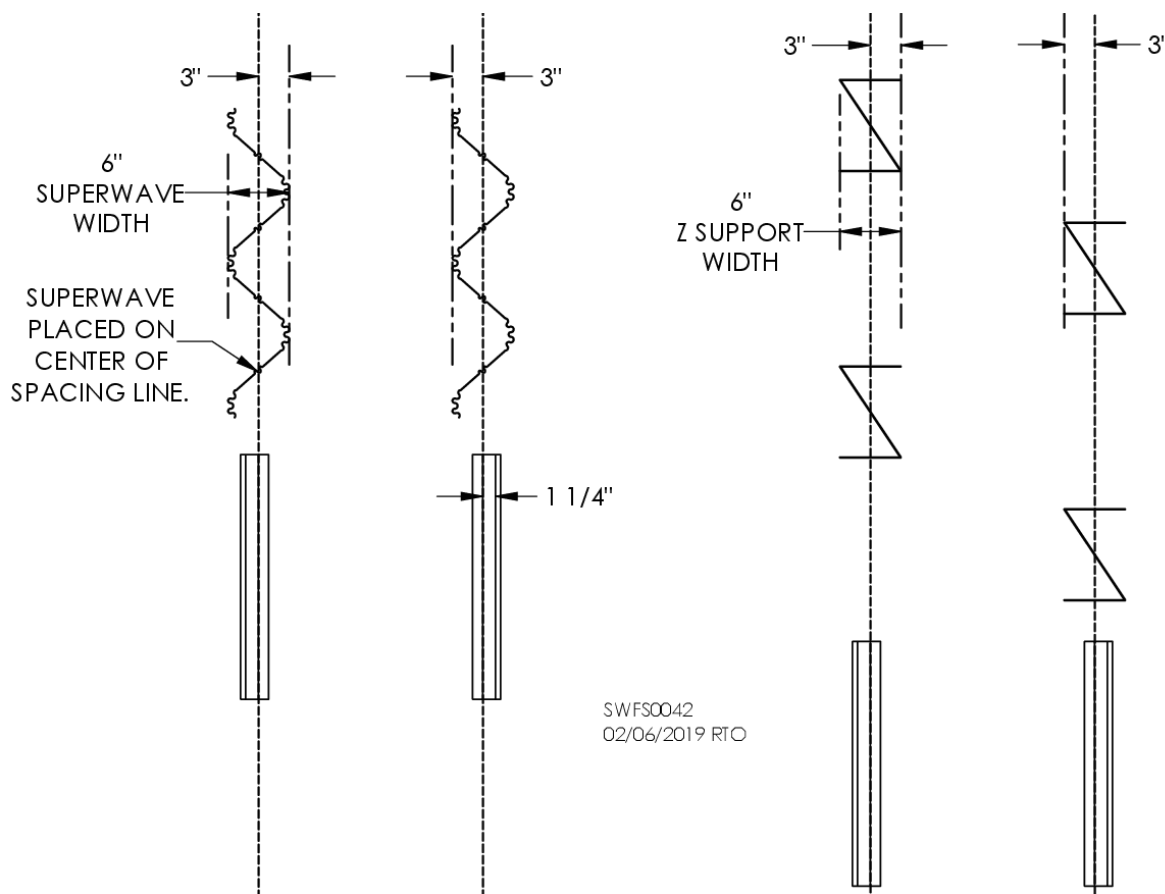


Fig. 20 – Widths of SuperWave, Z-Post and Double Super Supports

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. 21 shows Double Super Supports used instead of SuperWave supports. Placement of Double Super Supports with Z-Posts will be similar.

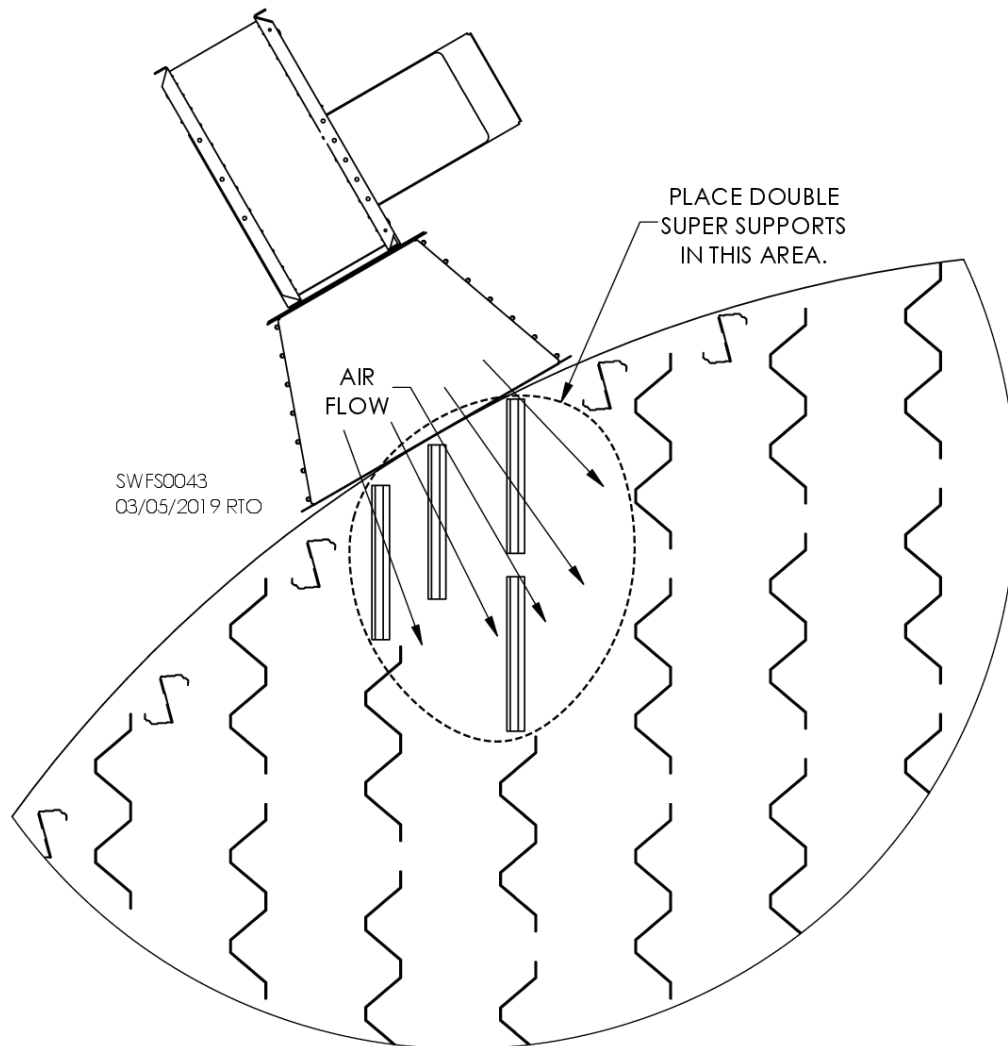


Fig. 21 – Supporting floor in front of fan

SUPPORTING FLOOR PLANKS AT SPLITS

See table below for maximum unsupported overhang of floor plank at split, depending on bin size. Maximums apply to Hawk Cut 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. 22.

Place a Z-Post support at each split to support all four plank corners (two corners of each plank).

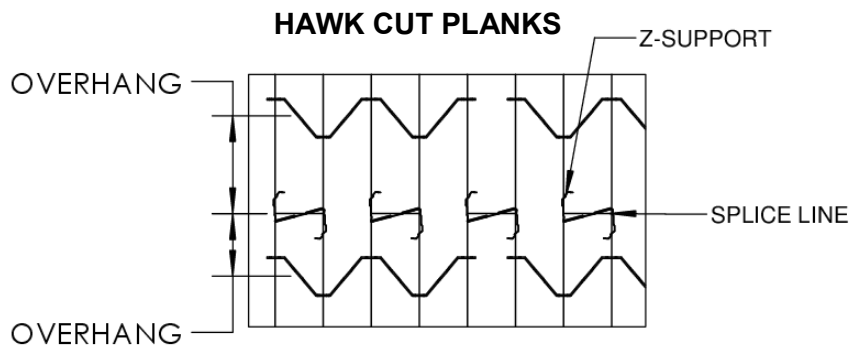


Fig. 22 – Supporting floor planks at splits

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. 23.
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.

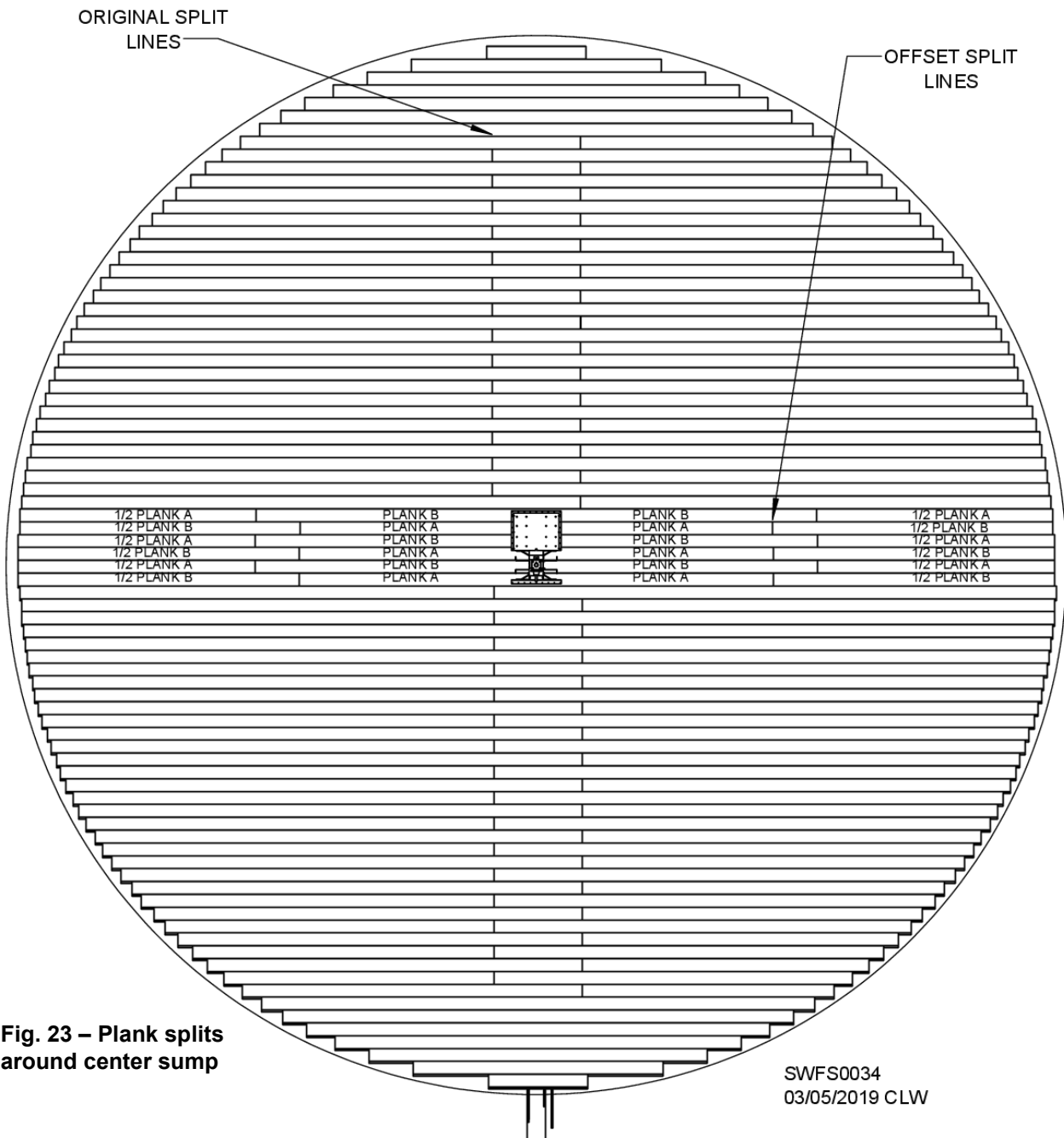


Fig. 23 – Plank splits around center sump

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. 24.

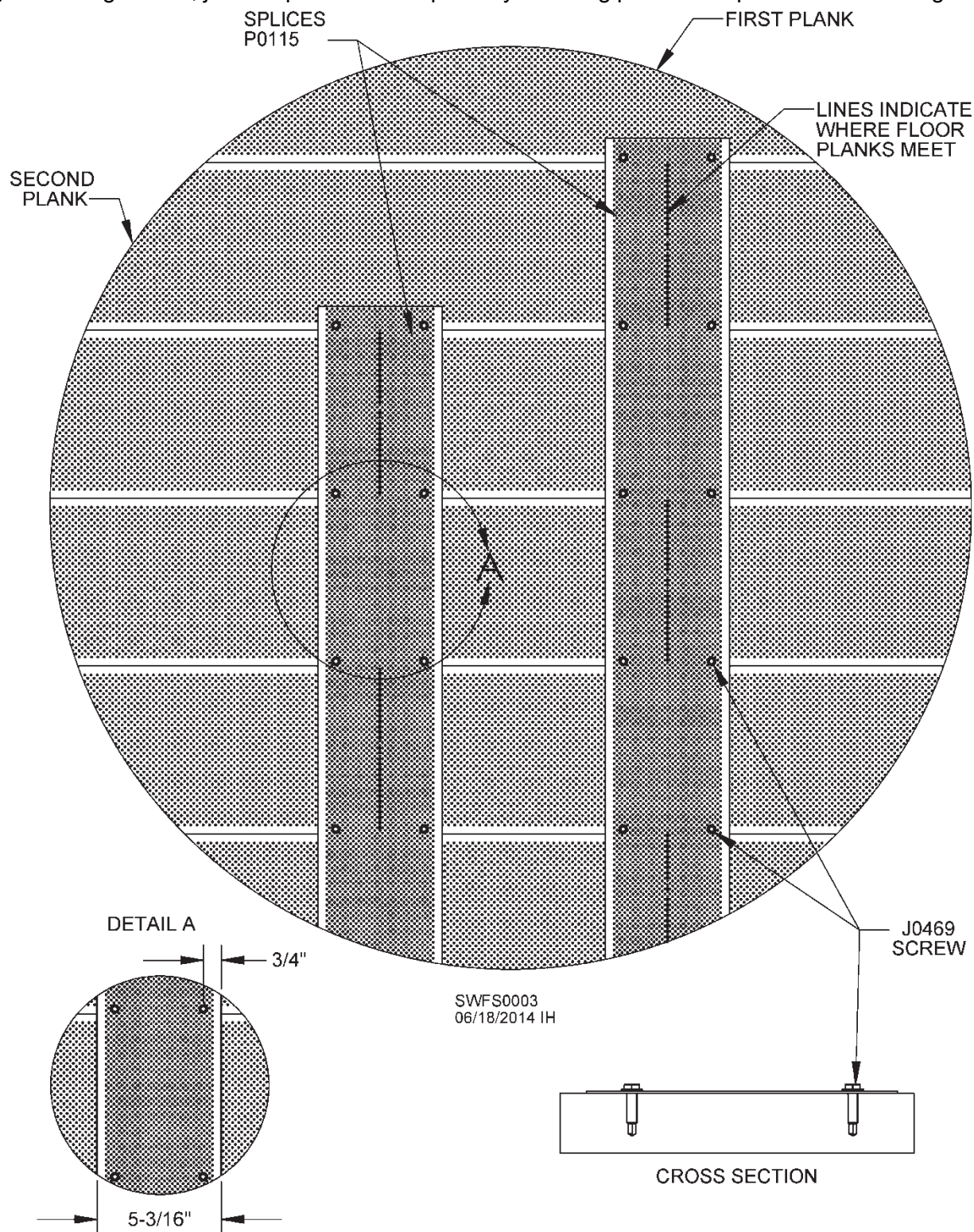


Fig. 24 – Splicing floor planks

FLASHING INSTALLATION

If sweep auger will be used in bin, flashing must be overlapped as shown in Fig. 25 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.

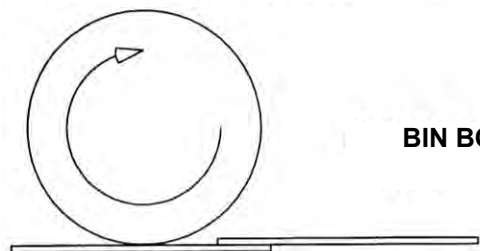
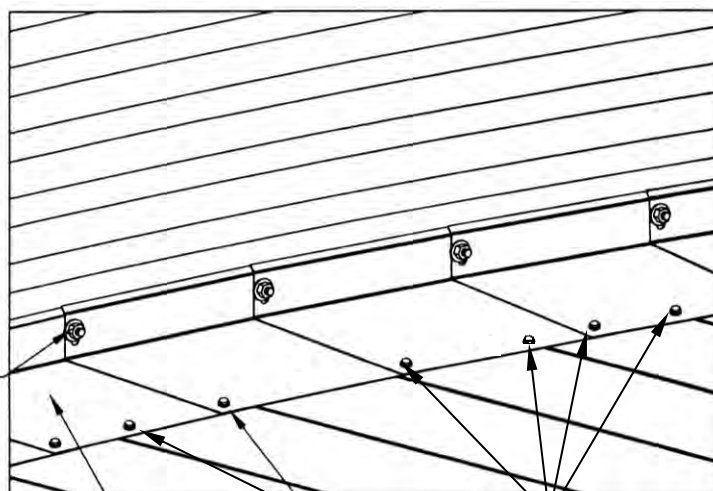


Fig. 25 – Flashing installation

BIN BOLT



FLASHING

J0469 FLASHING
SCREWS IN CORNERS
& NEAR CROWNED
PLANK SEAMS

SPFS0017
990504JRW

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. 25. Install an additional screw if two crowned planks meet more than 2" from seam between flashing pieces.

See Fig. 26 or Fig. 27 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. 26 – Bolting on hill

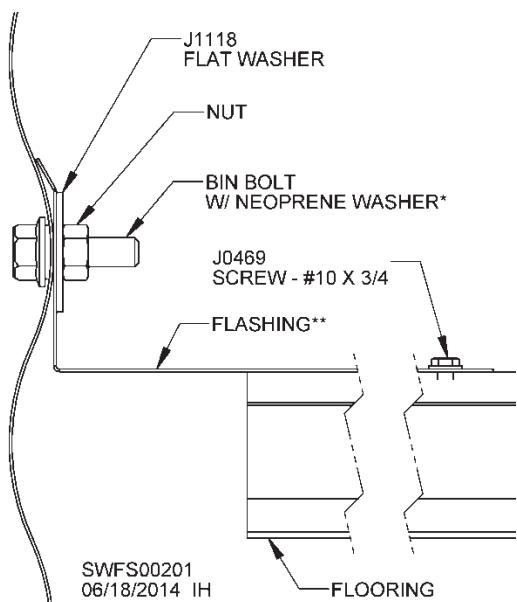
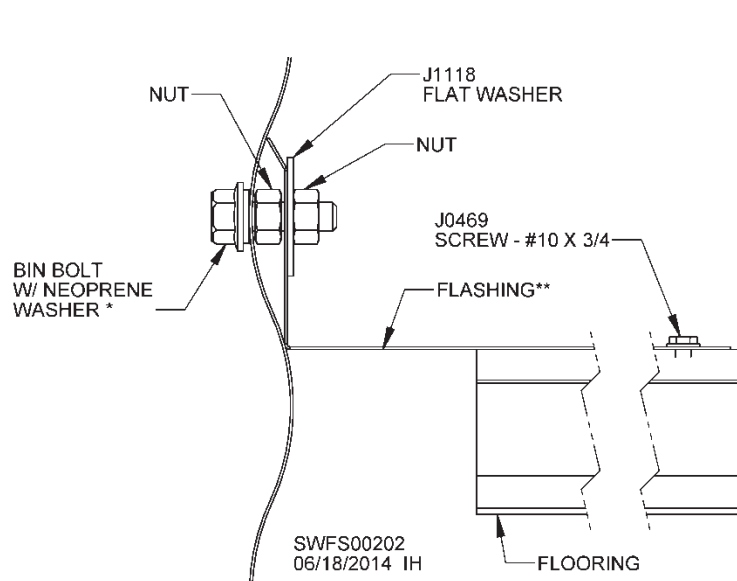


Fig. 27 – Bolting in valley



*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. Tables for Z-Post Supports are on Pages 11-12; table for Super Supports is on Page 15; and table for SuperWave Supports is on Page 19.

Place supports under each plank and install according to applicable instructions. See Pages 18 and 31 to ensure there is adequate support under ends of planks.

NOTE: Floors in 42' 8" (13M), 43' 3" and 49' 3" (15M) dia. bins can be ordered split or non-split. Floors in bins larger than 49'3" in diameter are all split-plank floors.

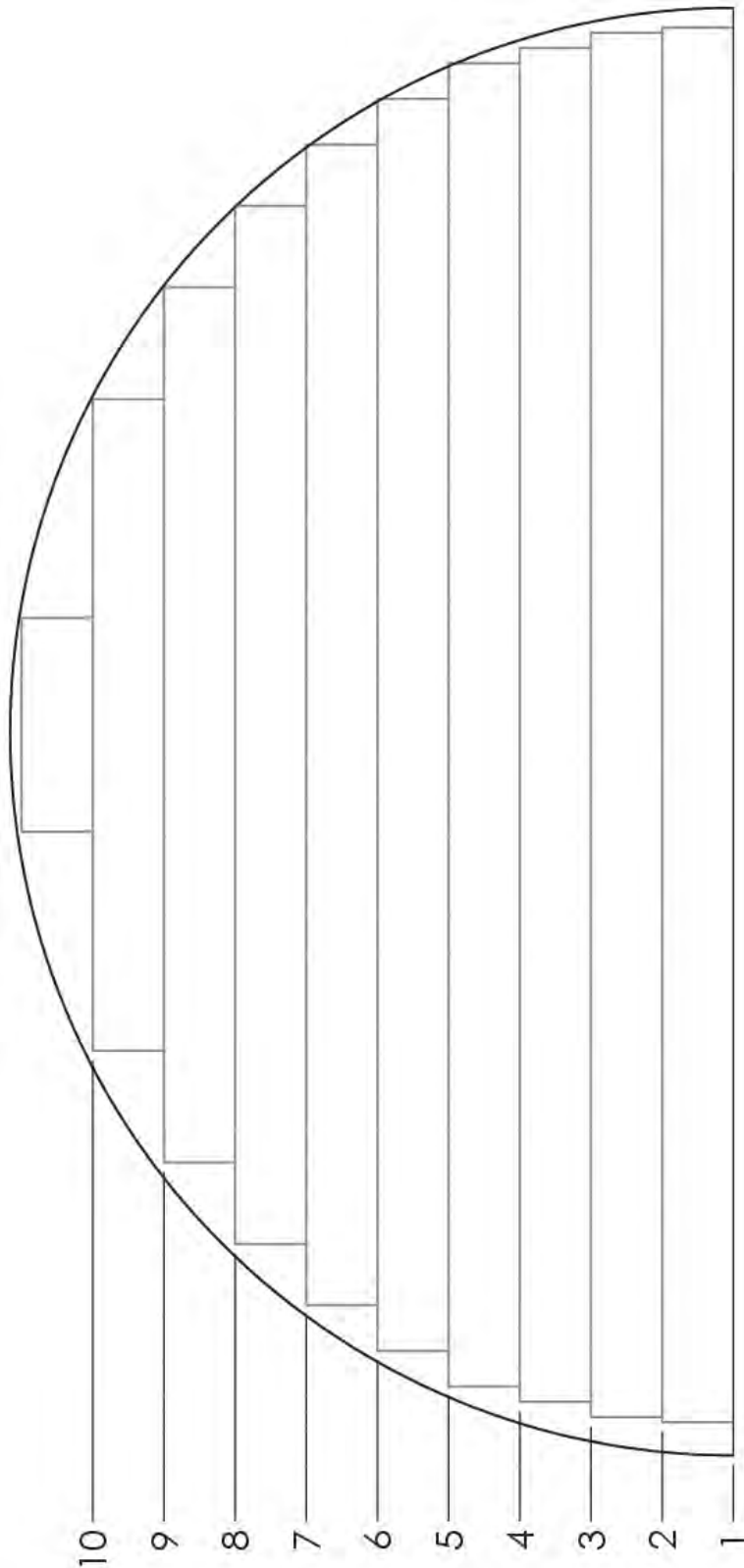
The following notes apply to split-plank floors in bins 42' 8" (13M) diameter and larger:

- 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 32 for moving plank splices farther from center sump.
- See Page 33 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 16' 5" (5M), 18' 7", 19' 8" (6M), 27' 10", 36' 1" (11M), 43' 3", 49' 3" (15M) and 61' 10" in diameter.

LAYOUT & LOCATION OF FLOOR PLANKS

12' DIA. BIN PLANK LAYOUT



SWS0178
06/27/2019 CLW

Layout & Location of Floor Planks

LOCATING PLANKS FOR 12' DIA. BIN

A 12' floor is shipped in two identical stacks.

See layout on previous page. Plank closest to sidewall (Plank 10, measuring 1' 9") is starter plank.

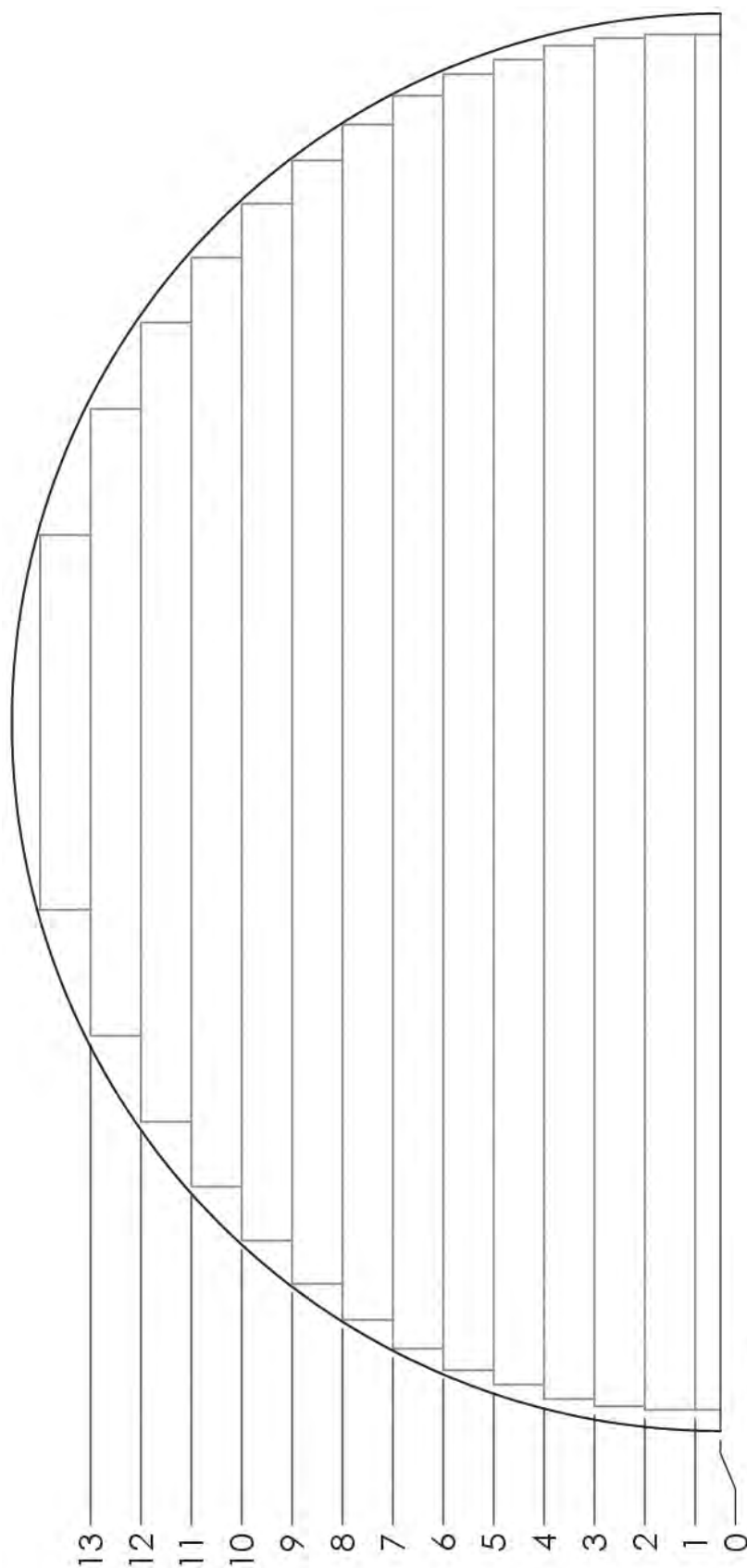
Lay out planks of Stack 1. Install in descending order from Plank 10 to Plank 1, then open Stack 2 and work in ascending order on other side of bin.

See Page 35 for important notes.

12' FLOOR

Stack 1			Stack 2		
<i>Bottom of Stack</i>					
1	11'	5"	1	11'	5"
8	7'	2"	8	7'	2"
9	5'	4"	9	5'	4"
10	1'	9"	10	1'	9"
2	11'	4"	2	11'	4"
3	11'	1"	3	11'	1"
4	10'	10"	4	10'	10"
5	10'	3"	5	10'	3"
6	9'	6"	6	9'	6"
7	8'	6"	7	8'	6"
<i>Top of Stack</i>					

16' 5" (5M) DIA. BIN PLANK LAYOUT



SWFS0179
06/27/2019 CLW

Layout & Location of Floor Planks

LOCATING PLANKS FOR 16' 5" (5M) DIA. BIN

A 16' 5" floor is shipped in two stacks.

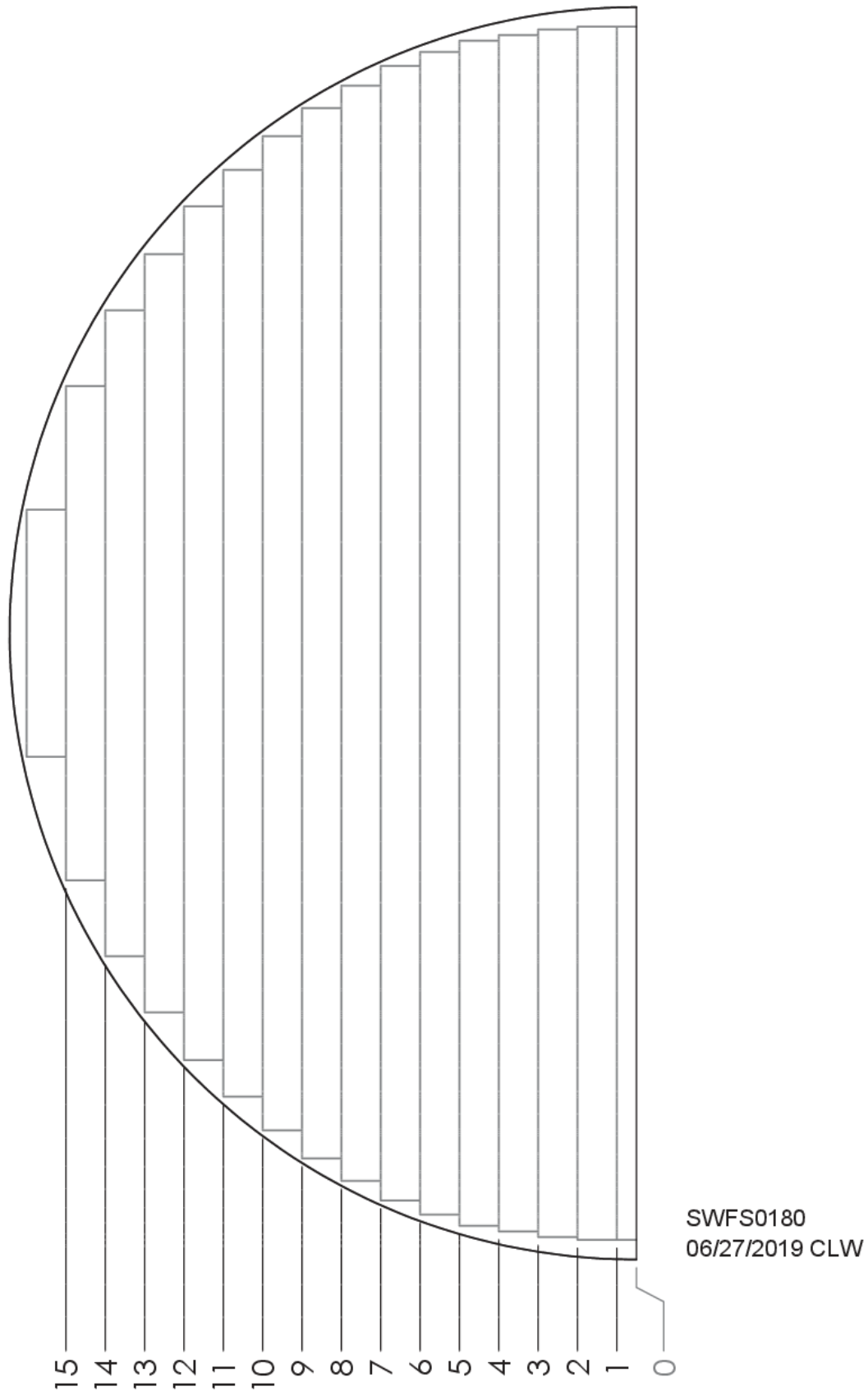
1. Label stacks as shown below by measuring top plank of each stack.
2. See layout on previous page. Plank closest to sidewall (Plank 13, measuring 4' 4") is starter plank.
3. Lay out planks of Stack 1. Install in descending order from Plank 13 to Plank 0, then open Stack 2 and work in ascending order on other side of bin.

See Page 35 for important notes.

16' 5" (5M) FLOOR

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

18' 7" DIA. BIN PLANK LAYOUT



Layout & Location of Floor Planks

LOCATING PLANKS FOR 18' 7" DIA. BIN

An 18' 7" floor is shipped in two stacks.

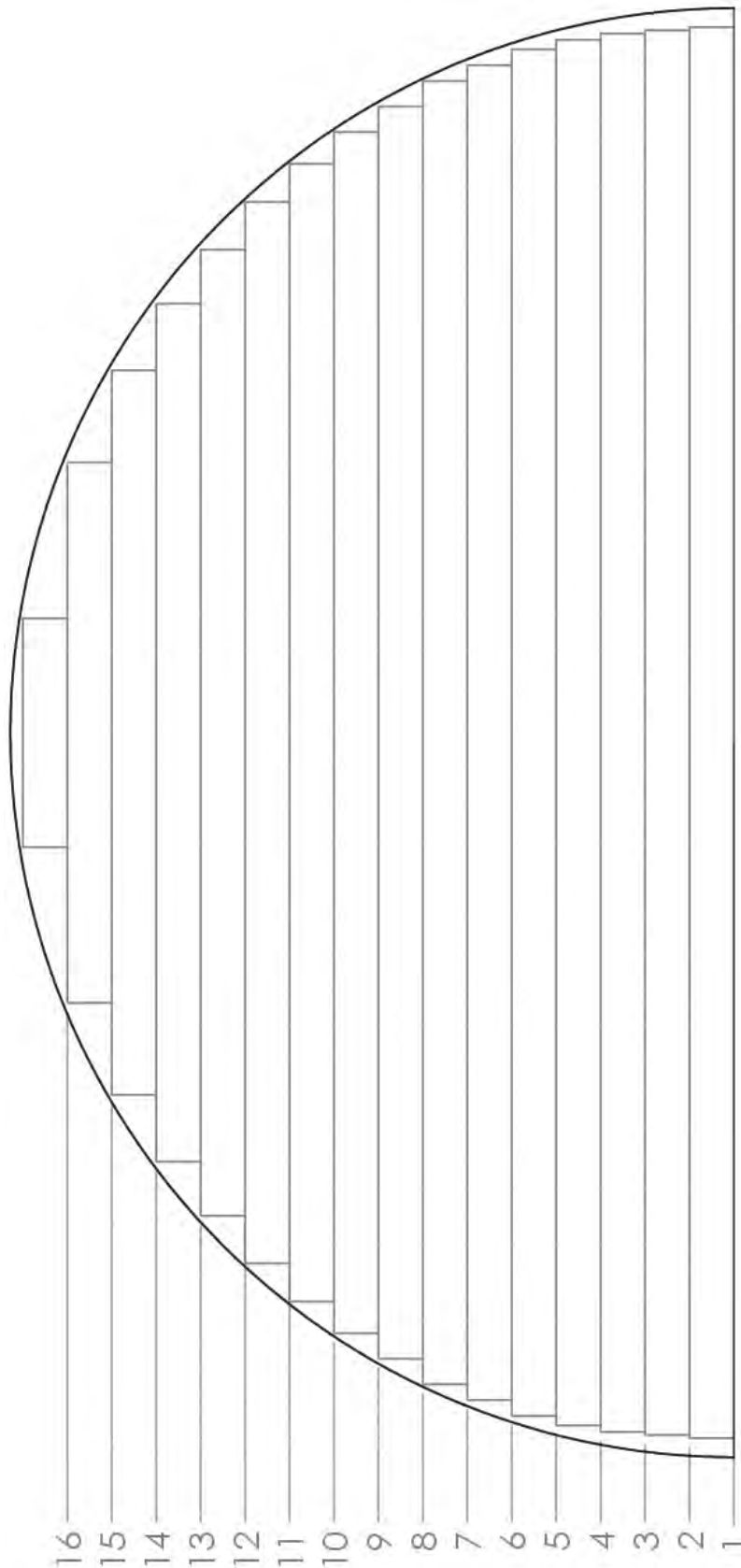
1. Label stacks as shown below by measuring top plank of each stack.
2. See layout on previous page. Plank closest to sidewall (Plank 15, measuring 3' 8") is starter plank.
3. Lay out planks of Stack 1. Install in descending order from Plank 15 to Plank 0, then open Stack 2 and work in ascending order on other side of bin.

See Page 35 for important notes.

18' 7" FLOOR

Stack 1		Stack 2	
Bottom of Stack			
0	18'	1	18'
13	9' 7"	2	17' 11"
14	7' 4"		
		3	17' 9"
1	18' "	4	17' 7"
2	17' 11"		
		5	17' 3"
3	17' 9"	6	16' 10"
4	17' 7"		
		7	16' 3"
5	17' 3"	8	15' 7"
6	16' 10"		
		9	14' 9"
7	16' 3"	10	13' 9"
8	15' 7"		
		11	12' 8"
9	14' 9"	14	7' 4"
12	11' 3"	15	3' 8"
15	3' 8"		
		12	11' 3"
10	13' 9"	13	9' 7"
11	12' 8"		
Top of Stack			

19' DIA. BIN PLANK LAYOUT



SWFS0181
06/27/2019 CLW

Layout & Location of Floor Planks

LOCATING PLANKS FOR 19' DIA. BIN

A 19' floor is shipped in two identical stacks.

See layout on previous page. Plank closest to sidewall (Plank 16, measuring 3') is starter plank.

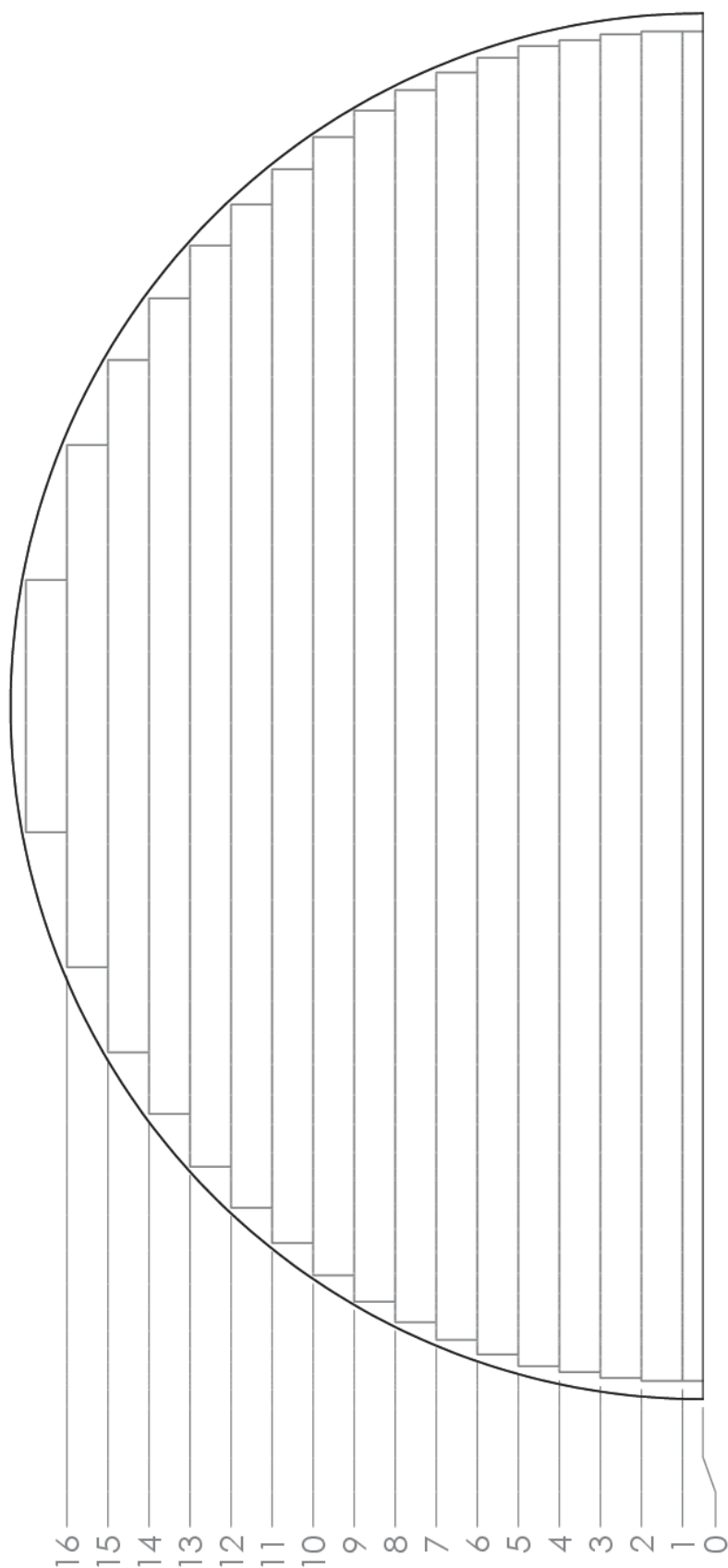
Lay out planks of Stack 1. Install in descending order from Plank 16 to Plank 1, then open Stack 2 and work in ascending order on other side of bin.

See Page 35 for important notes.

19' FLOOR

Stack 1			Stack 2		
<i>Bottom of Stack</i>					
1	18'	6"	1	18'	6"
2	18'	5"	2	18'	5"
3	18'	4"	3	18'	4"
4	18'	2"	4	18'	2"
5	17'	11"	5	17'	11"
6	17'	6"	6	17'	6"
7	17'	1"	7	17'	1"
14	9'	6"	14	9'	6"
15	7'	1"	15	7'	1"
8	16'	5"	8	16'	5"
9	15'	9"	9	15'	9"
10	14'	11"	10	14'	11"
13	11'	3"	13	11'	3"
16	3'		16	3'	
11	13'	11"	11	13'	11"
12	12'	8"	12	12'	8"
<i>Top of Stack</i>					

19' 8" DIA. (6M) BIN PLANK LAYOUT



SWFS0182
06/27/2019 CLW

Layout & Location of Floor Planks

LOCATING PLANKS FOR 19' 8" (6M) DIA. BIN

A 19' 8" floor is shipped in two stacks.

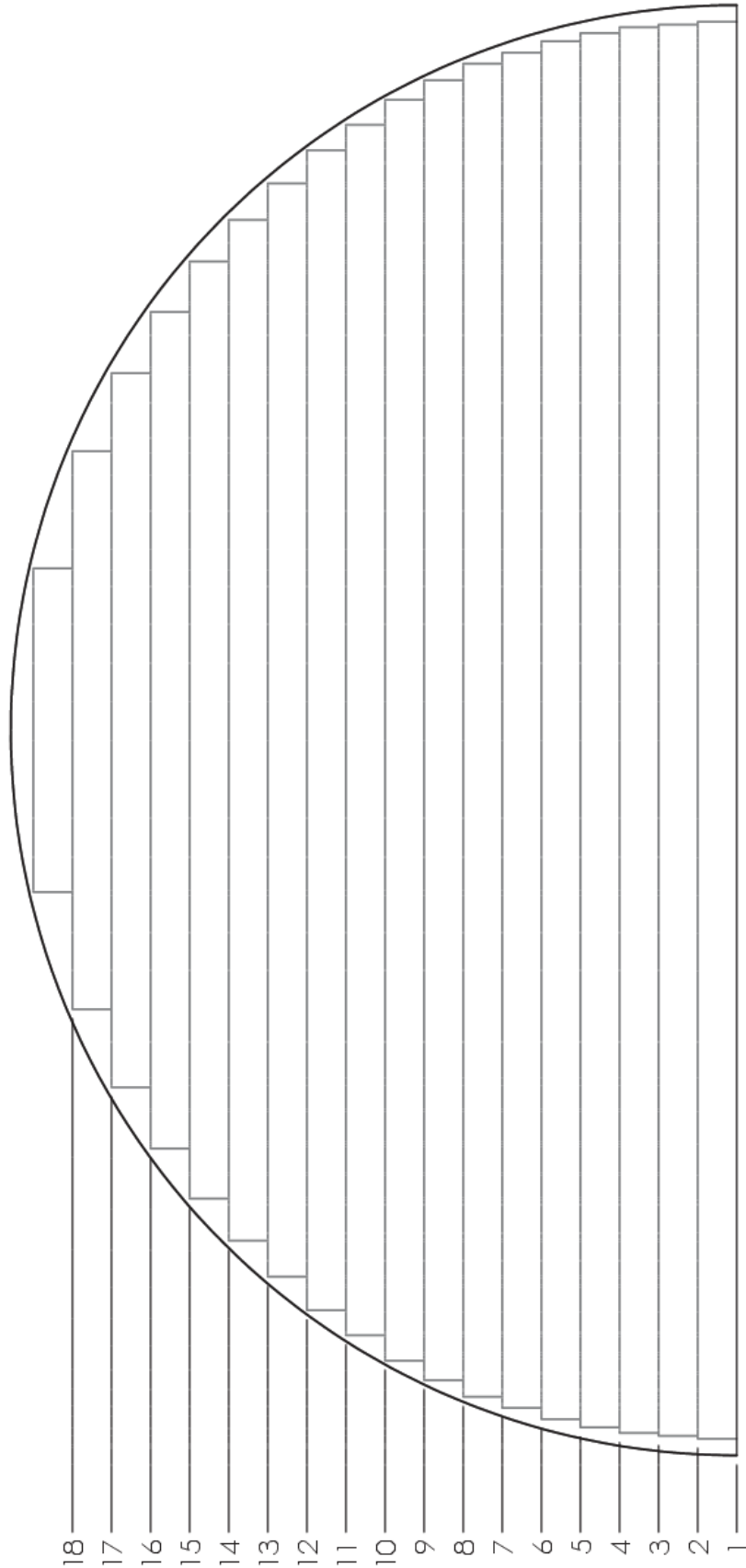
1. Label stacks as shown below by measuring bottom plank of each stack.
2. See layout on previous page. Plank closest to sidewall (Plank 16, measuring 3' 7") is starter plank.
3. Lay out planks of Stack No. 1. Install in descending order from Plank 16 to Plank 0, then open Stack 2 and work in ascending order on other side of bin.

See Page 35 for important notes.

19' 8" (6M) FLOOR

Stack 1			Stack 2		
<i>Bottom of Stack</i>					
0	19'	2"	1	19'	2"
1	19'	2"	2	19'	1"
2	19'	1"	3	18'	11"
3	18'	11"	4	18'	9"
4	18'	9"	5	18'	5"
5	18'	5"	6	18'	"
6	18'	"	7	17'	6"
7	17'	6"	8	16'	11"
8	16'	11"	9	16'	2"
9	16'	2"	10	15'	3"
10	15'	3"	11	14'	3"
11	14'	3"	12	13'	1"
12	13'	1"	13	11'	7"
14	9'	10"	14	9'	10"
13	11'	7"	15	7'	5"
15	7'	5"	16	3'	7"
16	3'	7"			
<i>Top of Stack</i>					

21' 8" DIA. BIN PLANK LAYOUT



SWFS0183
06/27/2019 CLW

Layout & Location of Floor Planks

LOCATING PLANKS FOR 21' 8" DIA. BIN

A 21' 8" floor is shipped in two identical stacks.

See layout on previous page. Plank closest to sidewall (Plank 18, measuring 4' 10") is starter plank.

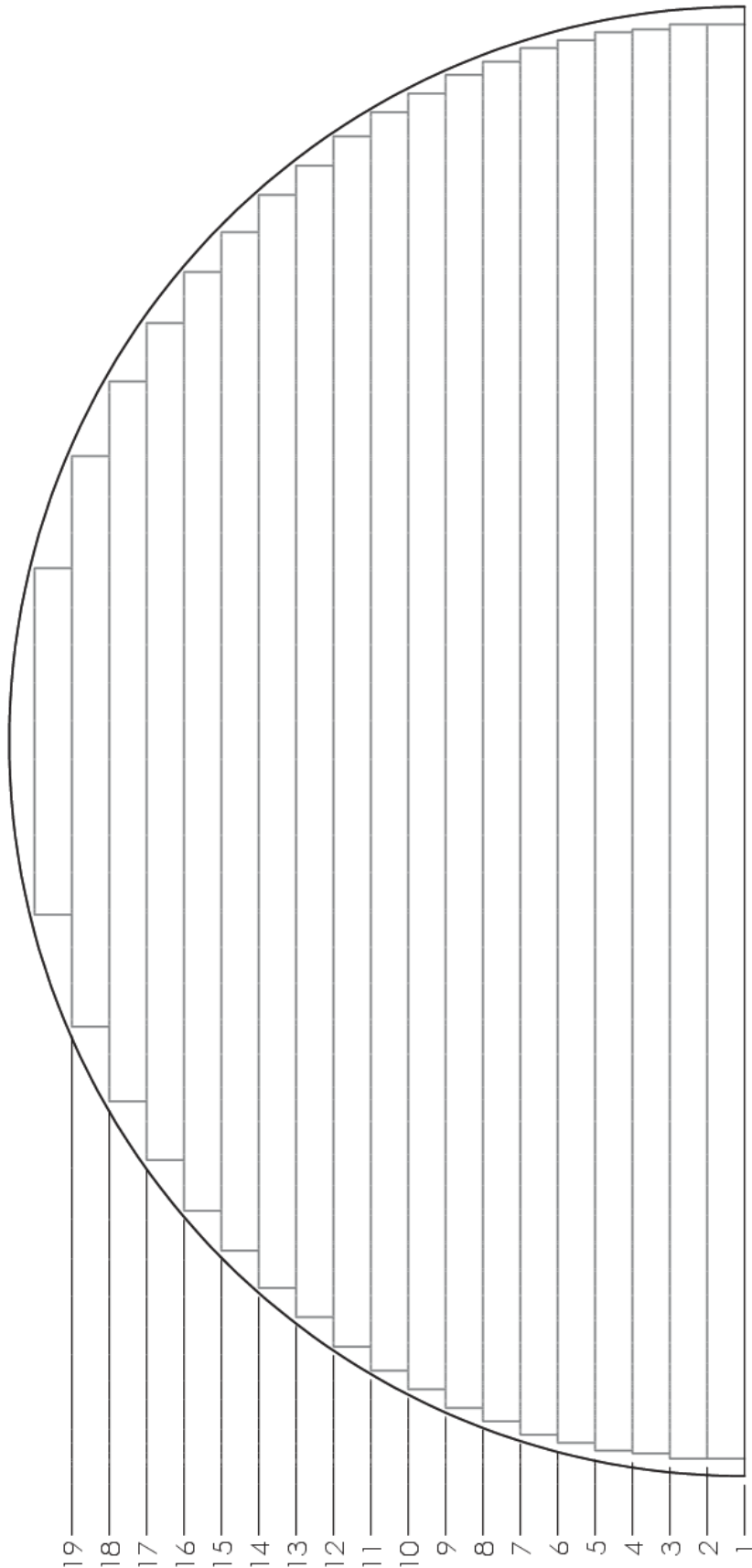
Lay out planks of Stack 1. Install in descending order from Plank 18 to Plank 1, then open Stack 2 and work in ascending order on other side of bin.

See Page 35 for important notes.

21' 8" FLOOR

Stack 1			Stack 2		
<i>Bottom of Stack</i>					
1	21'	2"	1	21'	2"
2	21'	1"	2	21'	1"
3	21'		3	21'	
4	20'	10"	4	20'	10"
5	20'	7"	5	20'	7"
6	20'	3"	6	20'	3"
7	19'	11"	7	19'	11"
8	19'	5"	8	19'	5"
9	18'	10"	9	18'	10"
16	10'	8"	16	10'	8"
17	8'	4"	17	8'	4"
10	18'	1"	10	18'	1"
11	17'	4"	11	17'	4"
12	16'	4"	12	16'	4"
15	12'	6"	15	12'	6"
18	4'	10"	18	4'	10"
13	15'	3"	13	15'	3"
14	14'		14	14'	
<i>Top of Stack</i>					

22' 11" (7M) DIA. BIN PLANK LAYOUT



SWFS0184
06/27/2019 CLW

Layout & Location of Floor Planks

LOCATING PLANKS FOR 22' 11" (7M) DIA. BIN

A 22' 11" floor is shipped in two identical stacks.

See layout on previous page. Plank closest to sidewall (Plank 19, measuring 5' 5") is starter plank.

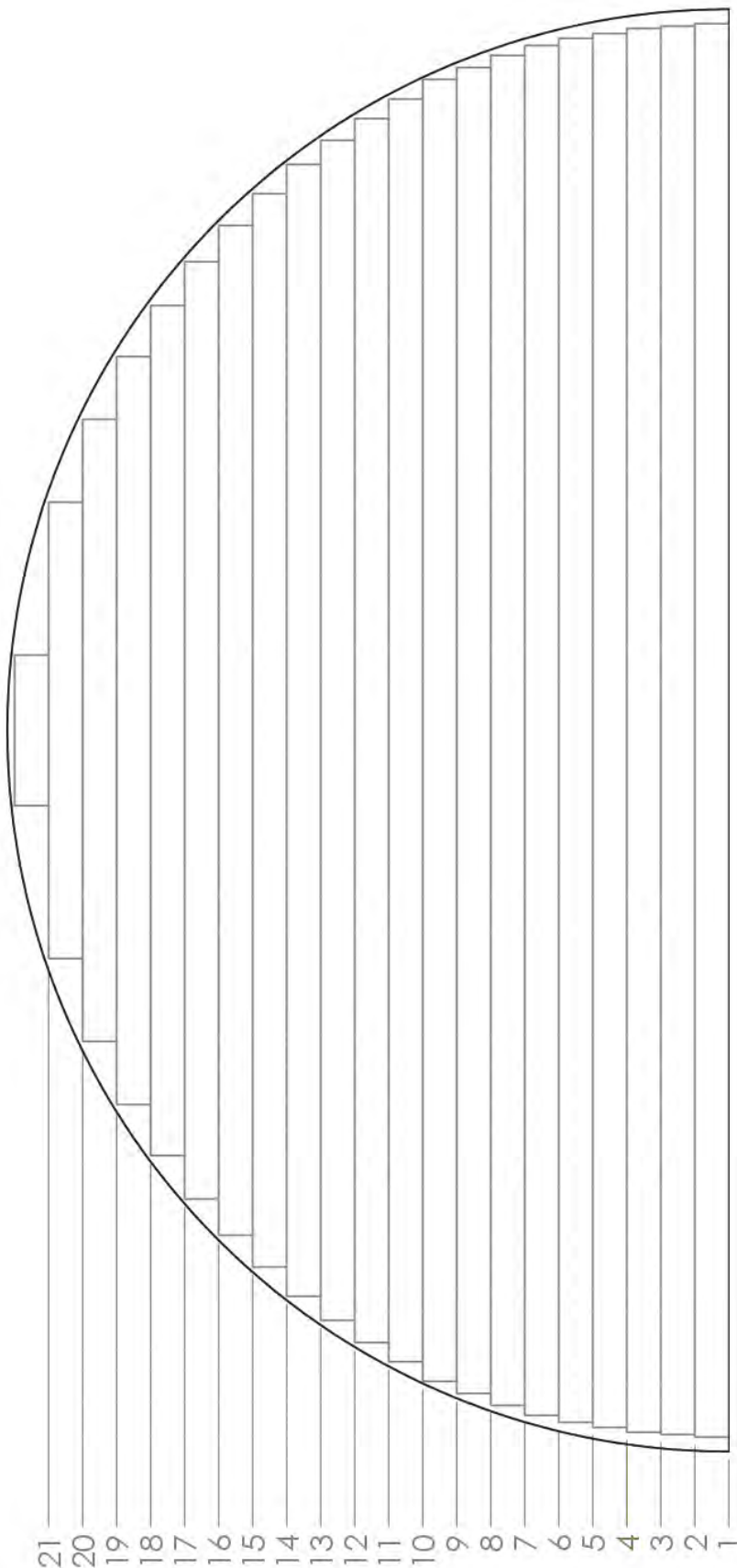
Lay out planks of Stack 1. Install in descending order from Plank 19 to Plank 1, then open Stack 2 and work in ascending order on other side of bin.

See Page 35 for important notes.

22' 11" (7M) FLOOR

Stack 1			Stack 2		
<i>Bottom of Stack</i>					
1	22'	5"	1	22'	5"
2	22'	5"	2	22'	5"
3	22'	3"	3	22'	3"
4	22'	2"	4	22'	2"
5	21'	11"	5	21'	11"
6	21'	8"	6	21'	8"
7	21'	3"	7	21'	3"
8	20'	10"	8	20'	10"
9	20'	3"	9	20'	3"
10	19'	8"	10	19'	8"
11	18'	11"	11	18'	11"
12	18'	"	12	18'	"
13	17'	1"	13	17'	1"
14	15'	11"	14	15'	11"
15	14'	8"	15	14'	8"
18	8'	11"	18	8'	11"
19	5'	5"	19	5'	5"
16	13'	1"	16	13'	1"
17	11'	3"	17	11'	3"
<i>Top of Stack</i>					

24' 9" DIA. BIN PLANK LAYOUT



SWFS0185
06/27/2019 CLW

Layout & Location of Floor Planks

LOCATING PLANKS FOR 24' 9" DIA. BIN

A 24' 9" floor is shipped in two identical stacks.

See layout on previous page. Plank closest to sidewall (Plank 21, measuring 2' 7") is starter plank.

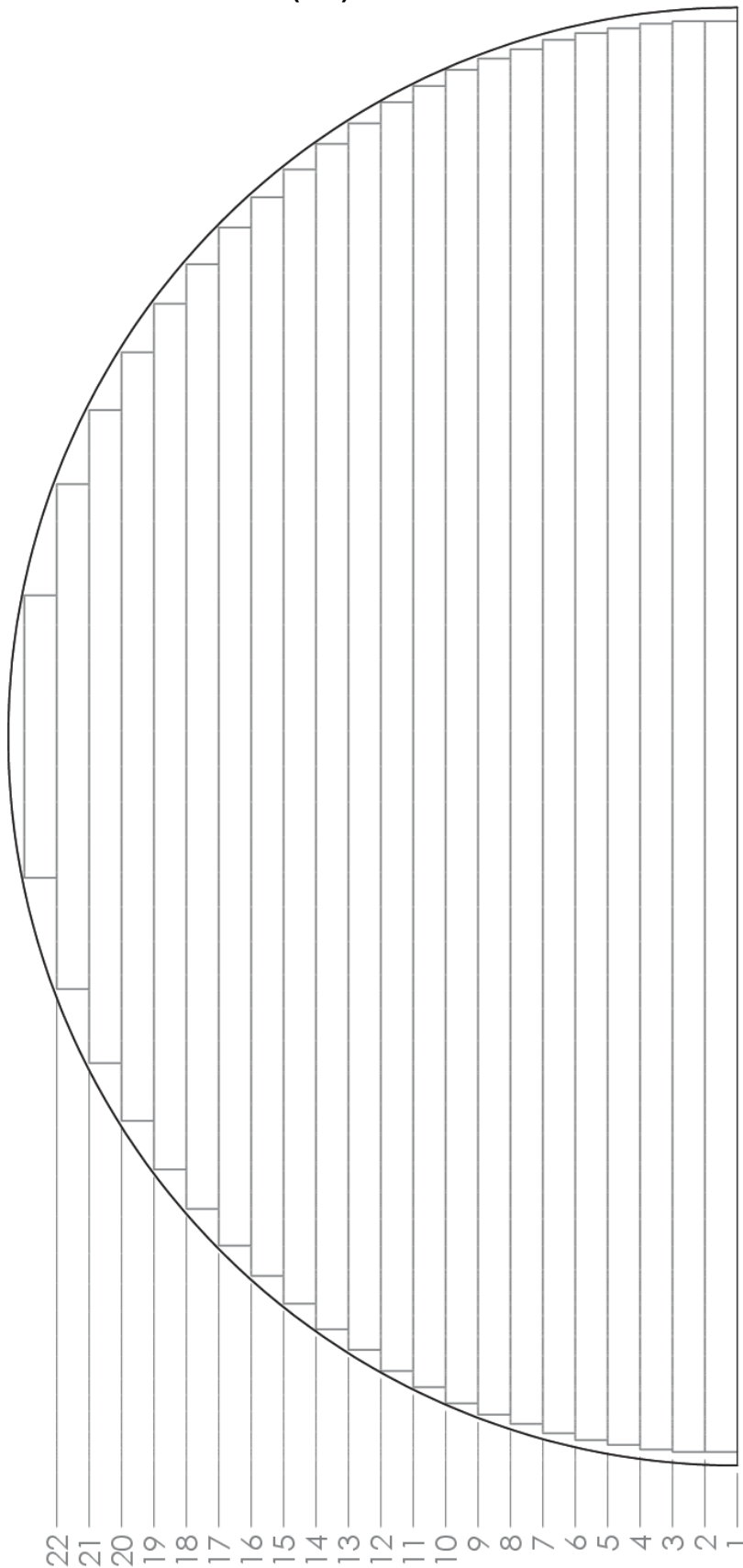
Lay out planks of Stack 1. Install in descending order from Plank 21 to Plank 1, then open Stack 2 and work in ascending order on other side of bin.

See Page 35 for important notes.

24' 9" FLOOR

Stack 1			Stack 2		
Bottom of Stack					
1	24'	3"	1	24'	3"
2	24'	2"	2	24'	2"
3	24'	1"	3	24'	1"
4	23'	11"	4	23'	11"
5	23'	9"	5	23'	9"
6	23'	6"	6	23'	6"
7	23'	2"	7	23'	2"
8	22'	9"	8	22'	9"
9	22'	4"	9	22'	4"
10	21'	8"	10	21'	8"
11	21'		11	21'	
12	20'	3"	12	20'	3"
13	19'	5"	13	19'	5"
14	18'	5"	14	18'	5"
15	17'	4"	15	17'	4"
16	16'	1"	16	16'	1"
17	14'	7"	17	14'	7"
18	12'	10"	18	12'	10"
19	10'	8"	19	10'	8"
20	7'	10"	20	7'	10"
21	2'	7"	21	2'	7"
Top of Stack					

26' 3" (8M) DIA. BIN PLANK LAYOUT



SWFS0186
06/27/2019 CLW

LOCATING PLANKS FOR 26' 3" (8M) DIA. BIN

A 26' 3" floor is shipped in two identical stacks.

See layout on previous page. Plank closest to sidewall (Plank 22, measuring 5' 1") is starter plank.

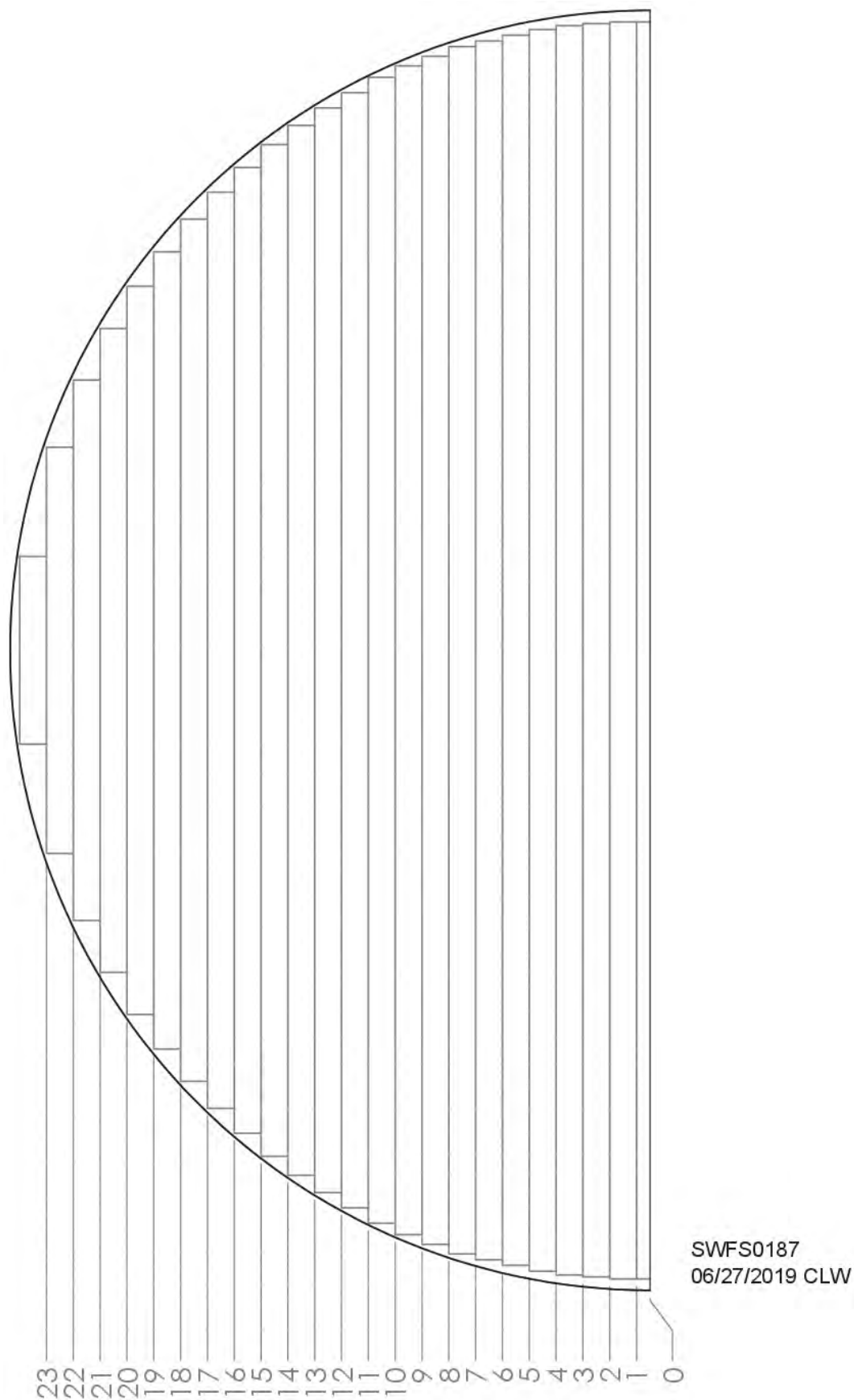
Lay out planks of Stack 1. Install in descending order from Plank 22 to Plank 1, then open Stack 2 and work in ascending order on other side of bin.

See Page 35 for important notes.

26' 3" (8M) FLOOR

Stack 1			Stack 2		
Bottom of Stack					
1	25'	9"	1	25'	9"
2	25'	9"	2	25'	9"
3	25'	8"	3	25'	8"
4	25'	6"	4	25'	6"
5	25'	4"	5	25'	4"
6	25'	1"	6	25'	1"
7	24'	9"	7	24'	9"
8	24'	5"	8	24'	5"
9	24'		9	24'	
10	23'	5"	10	23'	5"
11	22'	10"	11	22'	10"
12	22'	1"	12	22'	1"
13	21'	4"	13	21'	4"
14	20'	5"	14	20'	5"
15	19'	5"	15	19'	5"
16	18'	4"	16	18'	4"
17	17'		17	17'	
18	15'	7"	18	15'	7"
19	13'	10"	19	13'	10"
20	11'	9"	20	11'	9"
21	9'	1"	21	9'	1"
22	5'	1"	22	5'	1"
Top of Stack					

27' 10" DIA. BIN PLANK LAYOUT



Layout & Location of Floor Planks

LOCATING PLANKS FOR 27' 10" DIA. BIN

A 27' 10" floor is shipped in two stacks.

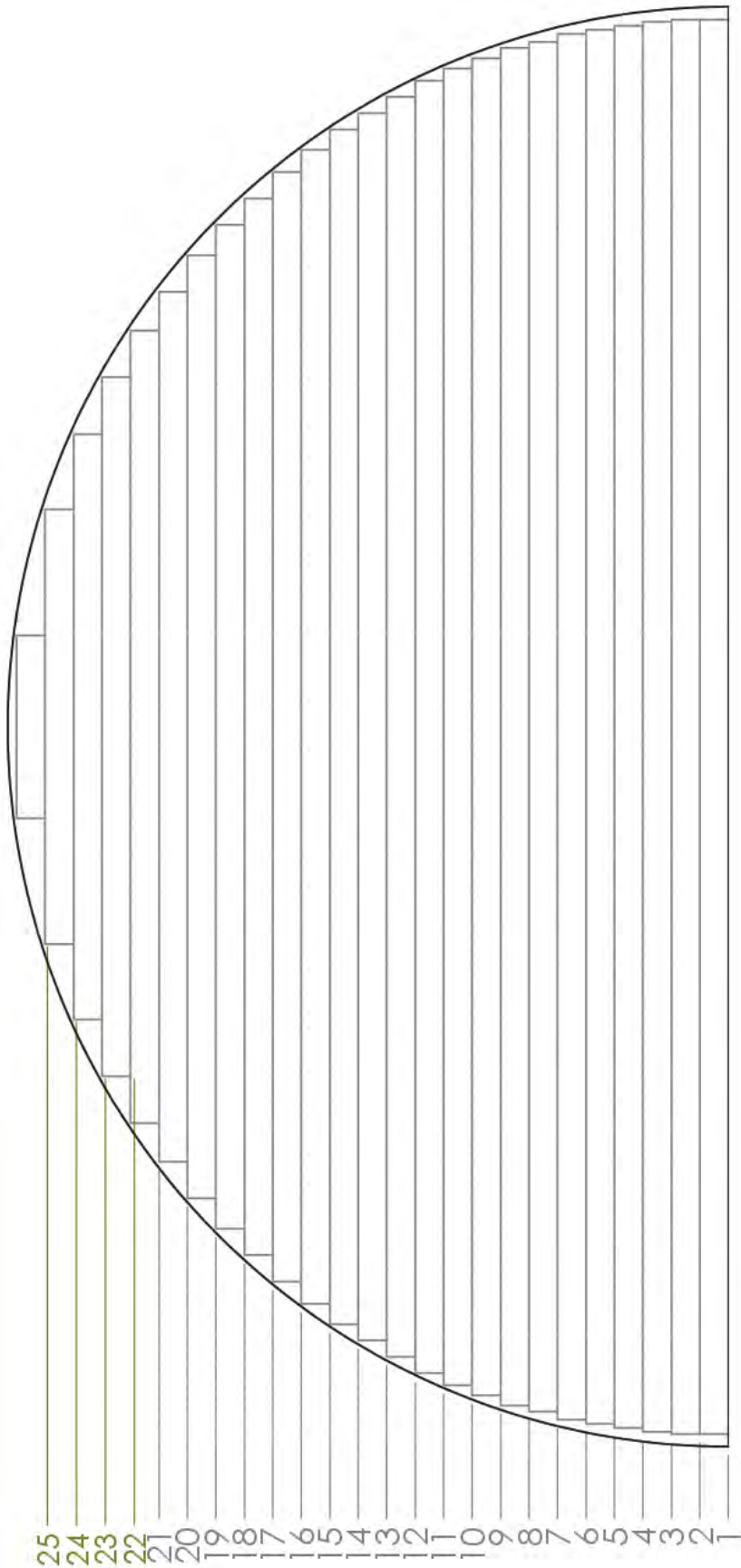
1. Label stacks as shown below by measuring top plank of each stack.
2. See layout on previous page. Plank closest to sidewall (Plank 23, measuring 4' 1") is starter plank.
3. Lay out planks of Stack 1. Install in descending order from Plank 23 to Plank 0, then open Stack 2 and work in ascending order on other side of bin.

See Page 35 for important notes.

27' 10 FLOOR

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

29' 6" (9M) DIA. BIN PLANK LAYOUT



SWFS0188
06/27/2019 CLW

Layout & Location of Floor Planks

LOCATING PLANKS FOR 29' 6" (9M) DIA. BIN

A 29' 6" floor is shipped in two identical stacks.

See layout on previous page. Plank closest to sidewall (Plank 25, measuring 3' 9") is starter plank.

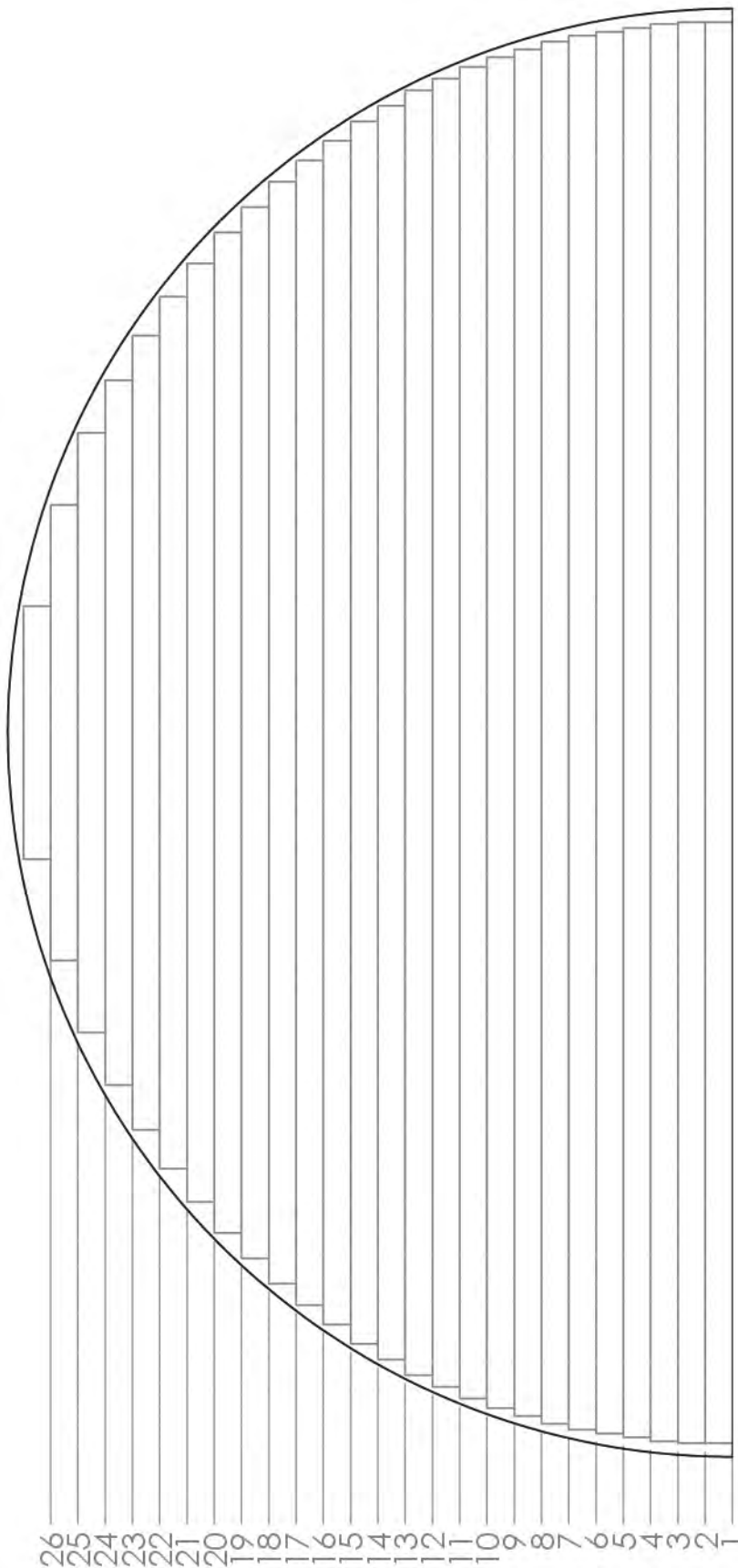
Lay out planks of Stack 1. Install in descending order from Plank 25 to Plank 1, then open Stack 2 and work in ascending order on other side of bin.

See Page 35 for important notes.

29' 6" (9M) FLOOR

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

31' DIA. BIN PLANK LAYOUT



SWFS0189
06/27/2019 CLW

LOCATING PLANKS FOR 31' DIA. BIN

A 31' floor is shipped in two identical stacks.

See layout on previous page. Plank closest to sidewall (Plank 26, measuring 5' 5") is starter plank.

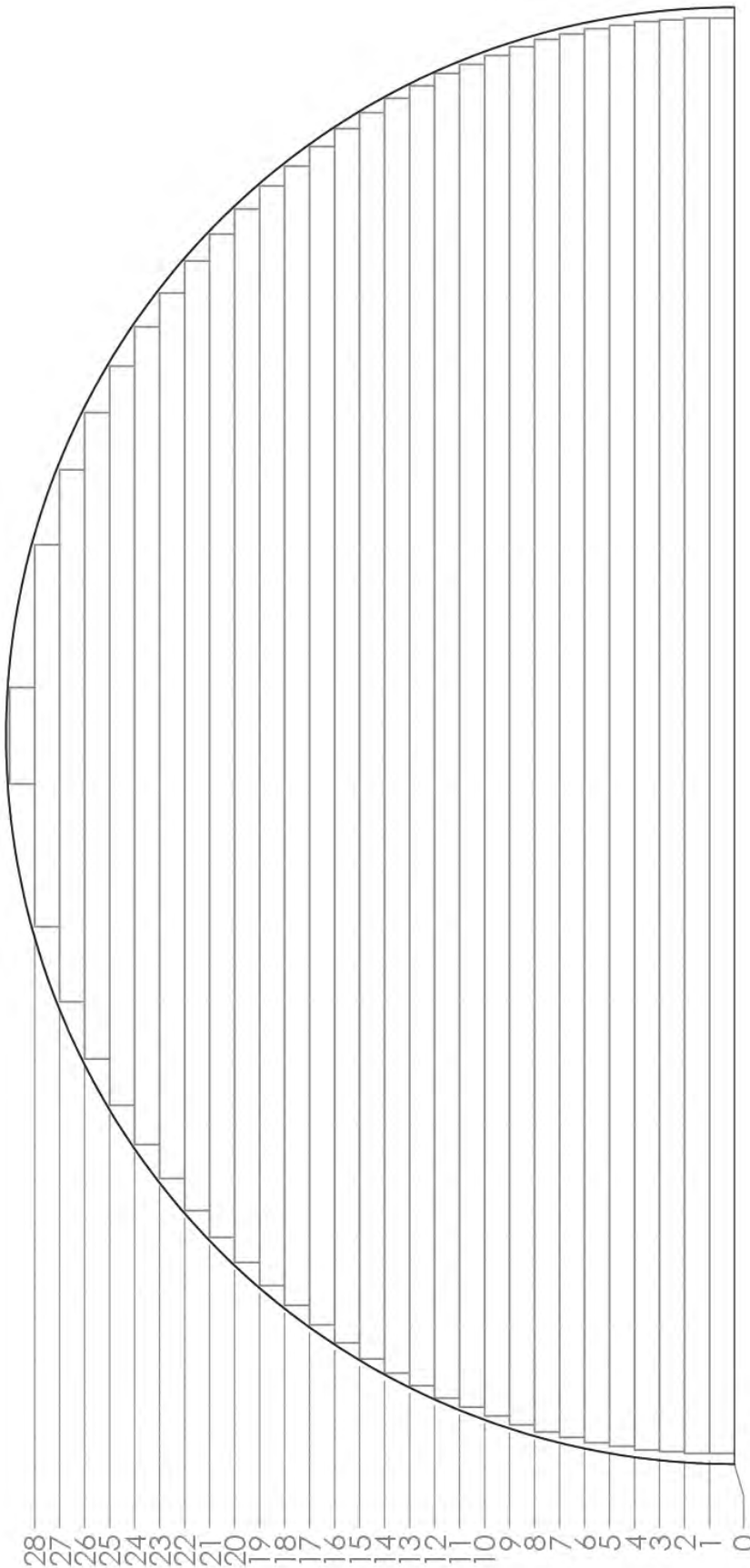
Lay out planks of Stack 1. Install in descending order from Plank 26 to Plank 1, then open Stack 2 and work in ascending order on other side of bin.

See Page 35 for important notes.

31' FLOOR

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

34' DIA. BIN PLANK LAYOUT



SWFS0190
07/02/2019 CLW

Layout & Location of Floor Planks

LOCATING PLANKS FOR 34' DIA. BIN

A 34' 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 29, measuring 2' 3") is starter plank.
3. Lay out planks of Stacks 1 & 2. Install in descending order from Plank 29 to Plank 1, then work in ascending order on other side of bin.

See Page 35 for important notes.

34' FLOOR

Stacks 1 & 3

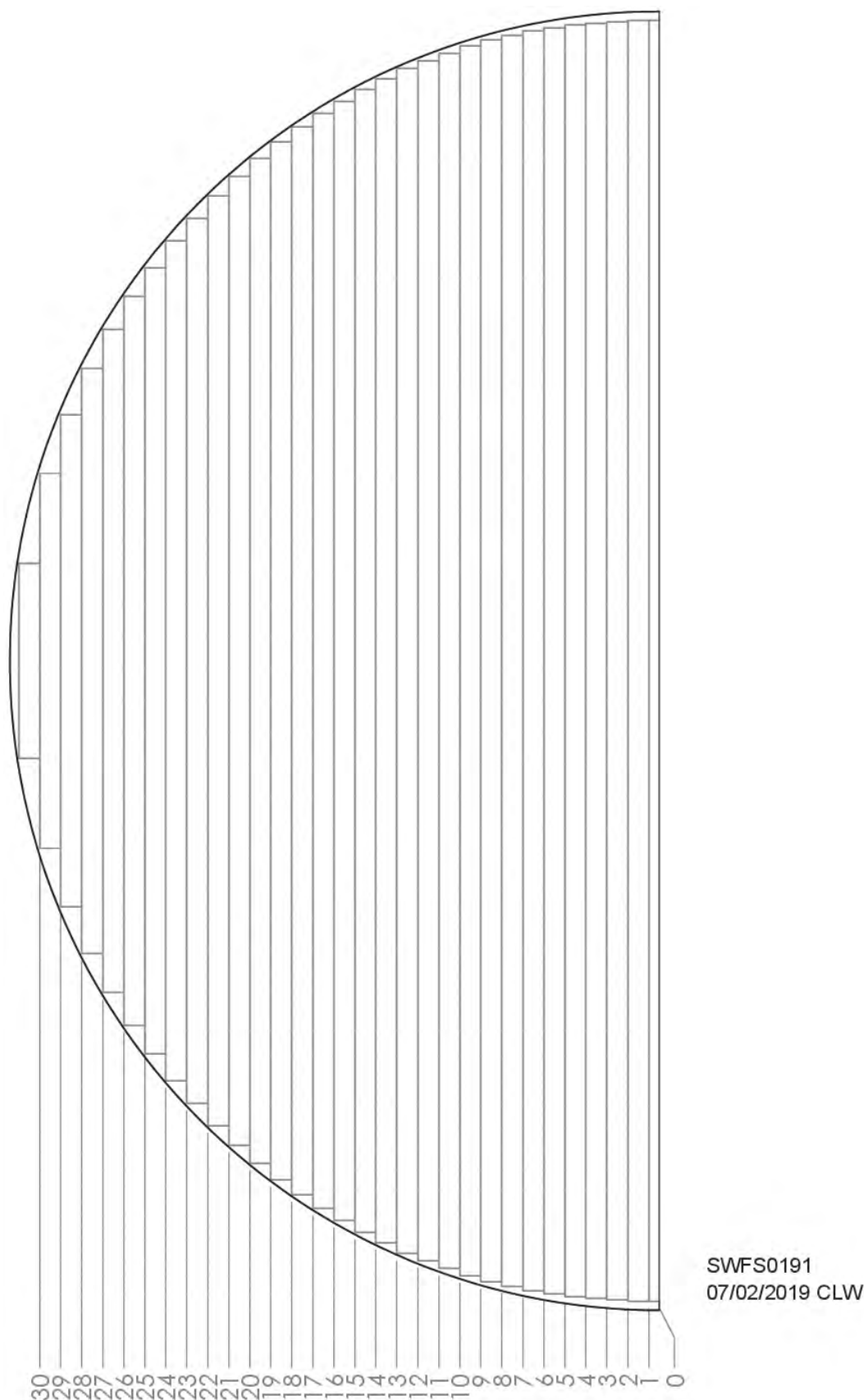
Stacks 2 & 4

Bottom of Stack

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

Top of Stack

36' 1" (11M) DIA. BIN PLANK LAYOUT



Layout & Location of Floor Planks

LOCATING PLANKS FOR 36' 1" (11M) DIA. BIN

A 36' 1" floor is shipped in four stacks.

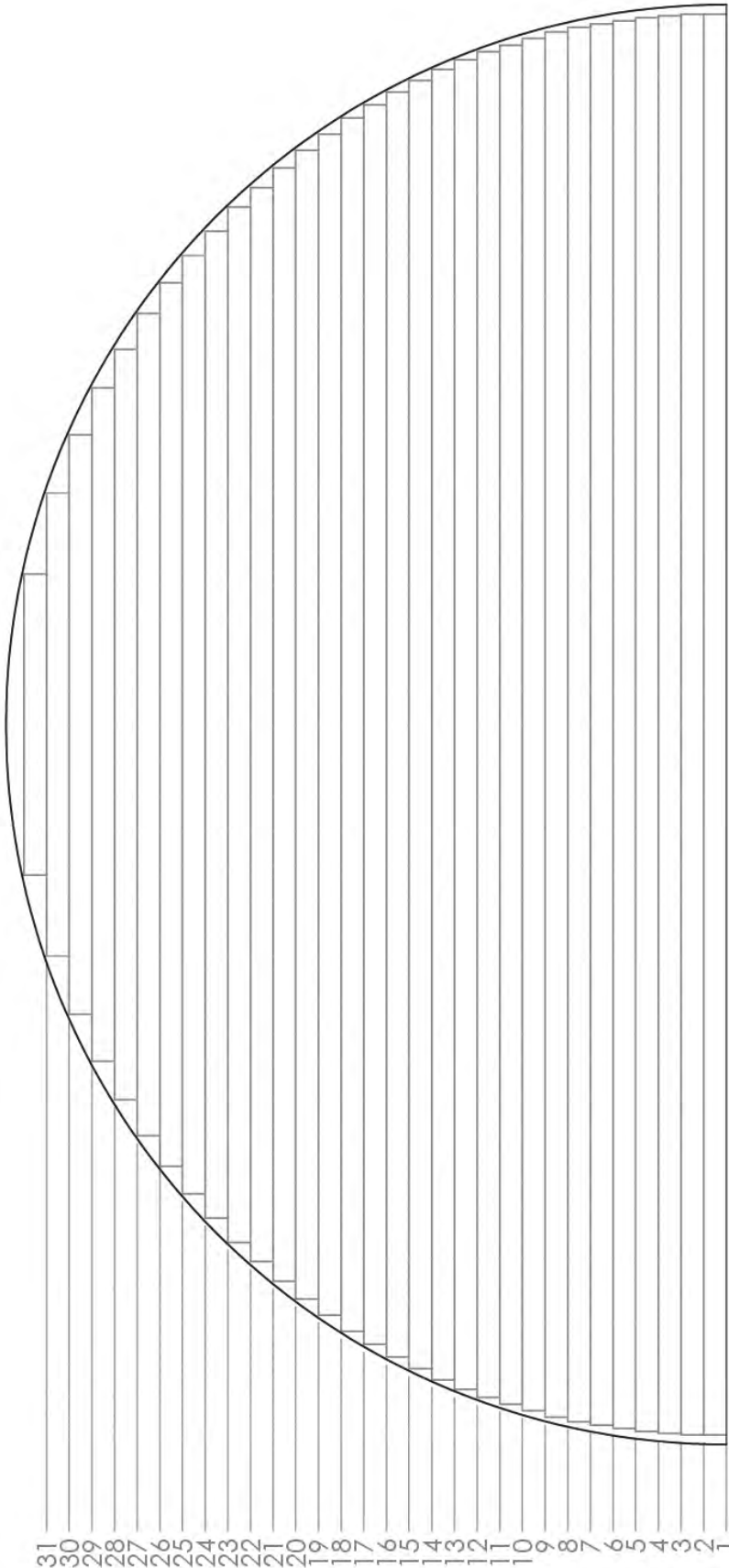
1. Label stacks as shown below by measuring top plank of each stack.
2. See layout on previous page. Plank closest to sidewall (Plank 30, measuring 5' 5") is starter plank.
3. Lay out planks of Stacks 1 & 3. Install in descending order from Plank 30 to Plank 0, then work in ascending order on other side of bin.

See Page 35 for important notes.

36' 1" (11M) FLOOR

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

37' 1" DIA. BIN PLANK LAYOUT



SWFS0192
07/02/2019 CLW

Layout & Location of Floor Planks

LOCATING PLANKS FOR 37' 1" DIA. BIN

A 37' 1" 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 31, measuring 7' 9") is starter plank.
3. Lay out planks of Stacks 1 & 2. Install in descending order from Plank 31 to Plank 1, then work in ascending order on other side of bin.

See Page 35 for important notes.

37' 1" FLOOR

Stacks 1 & 3

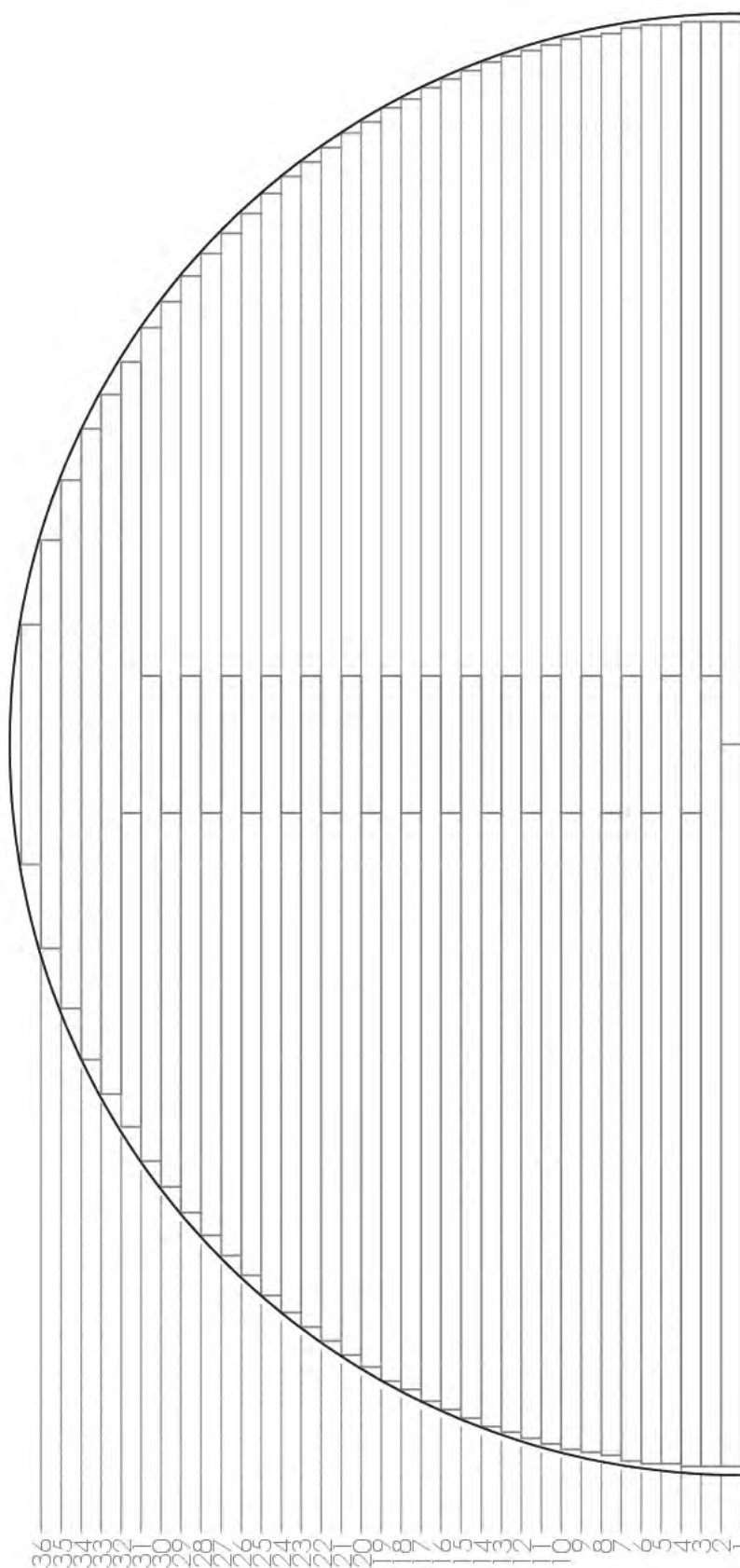
Stacks 2 & 4

Bottom of Stack

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

Top of Stack

42' 8" (13M) DIA. BIN SPLIT PLANK LAYOUT



SWFS0011
07/02/2019 CLW

LOCATING SPLIT PLANKS FOR 42' 8" (13M) DIA. BIN

A 42' 8" split-plank floor is shipped in eight stacks.

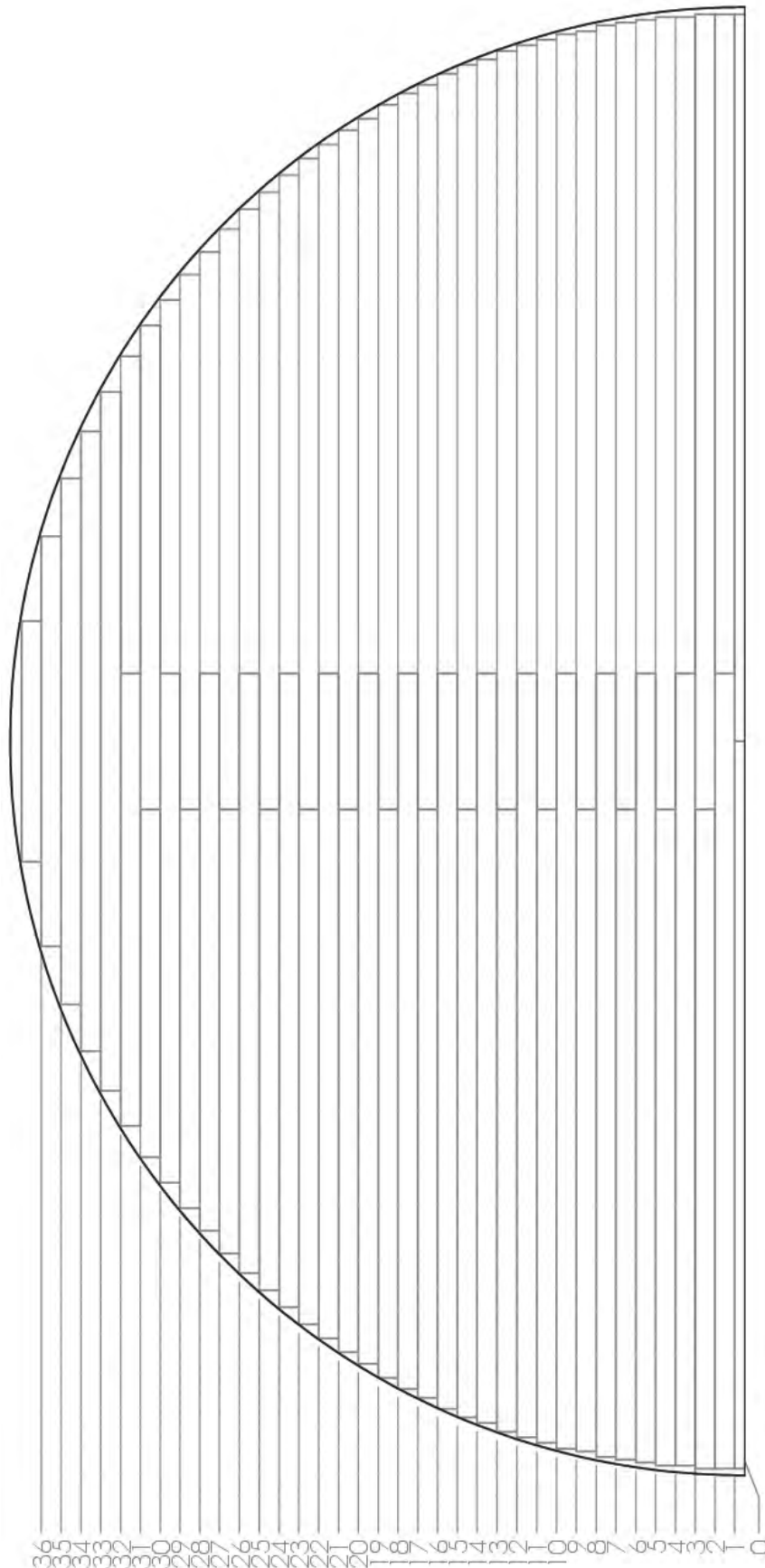
1. Label stacks as shown below by measuring bottom plank of each stack.
2. See layout on previous page. Plank closest to sidewall (Plank 36, measuring 7' 0") is starter plank. There is one in Stack 4 and one in Stack 8. It is shortest plank in each stack.
3. Lay out planks of Stacks 1-4. Install in descending order from Plank 36 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 35 for important notes.

42' 8" (13M) FLOOR (SPLIT)

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

43' 3" DIA. BIN SPLIT PLANK LAYOUT



SWFS0012
07/02/2019 CLW

Layout & Location of Floor Planks

LOCATING SPLIT PLANKS FOR 43' 3" DIA. BIN

A 43' 3" split-plank floor is shipped in eight stacks.

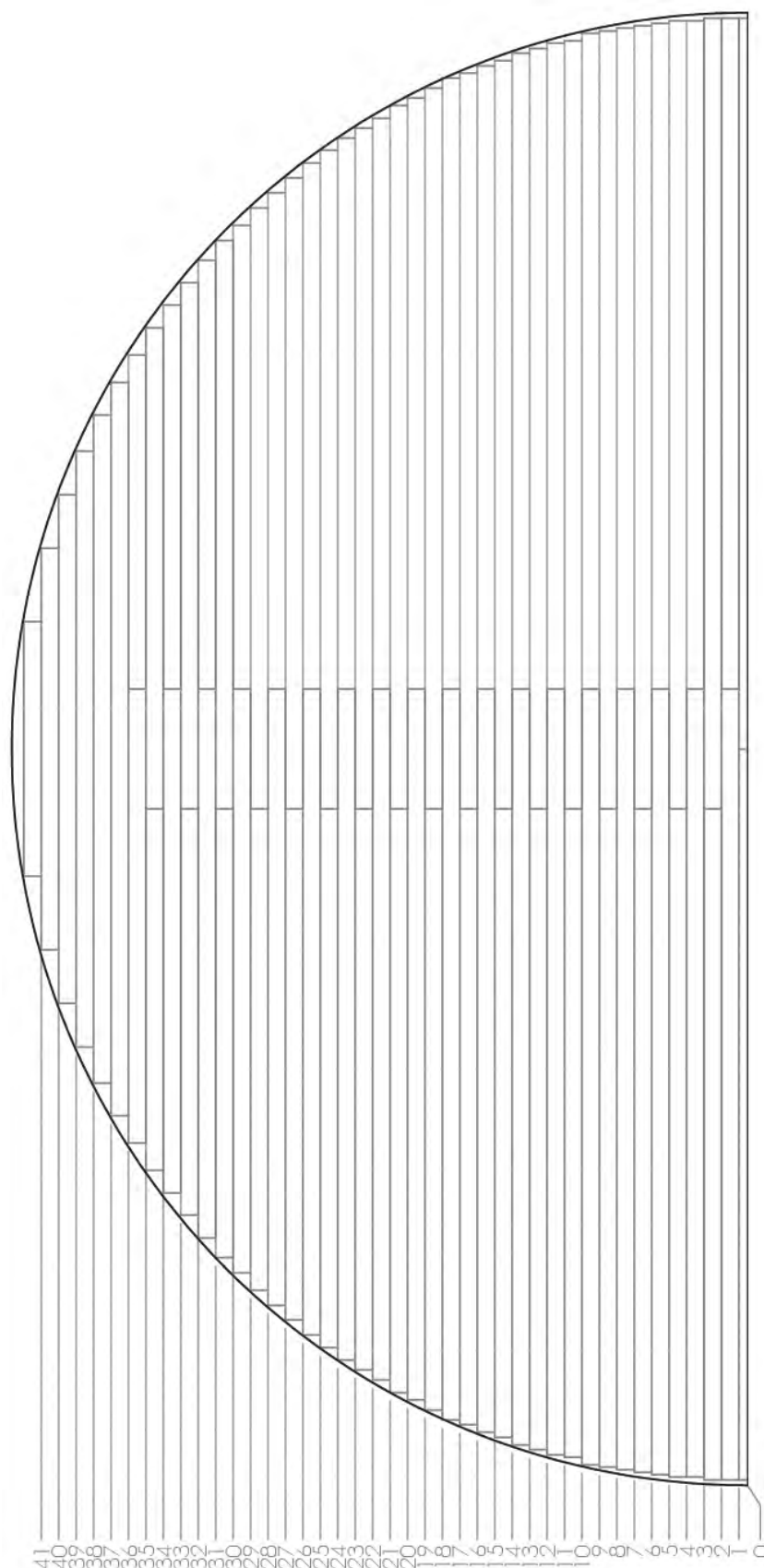
1. Label stacks as shown below by measuring bottom plank of each stack.
2. See layout on previous page. Plank closest to sidewall (Plank 36, measuring 7' 1") is starter plank. There is one in Stack 4 and one in Stack 5. It is shortest plank in each stack.
3. Lay out planks of Stacks 1-5. Install in descending order from Plank 36 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 35 for important notes.

43' 3" FLOOR (SPLIT)

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

49' 3" (15M) DIA. BIN SPLIT PLANK LAYOUT



SWFS0013
07/10/2019 CLW

LOCATING SPLIT PLANKS FOR 49' 3" (15M) DIA. BIN

A 49' 3" split-plank floor is shipped in eight stacks.

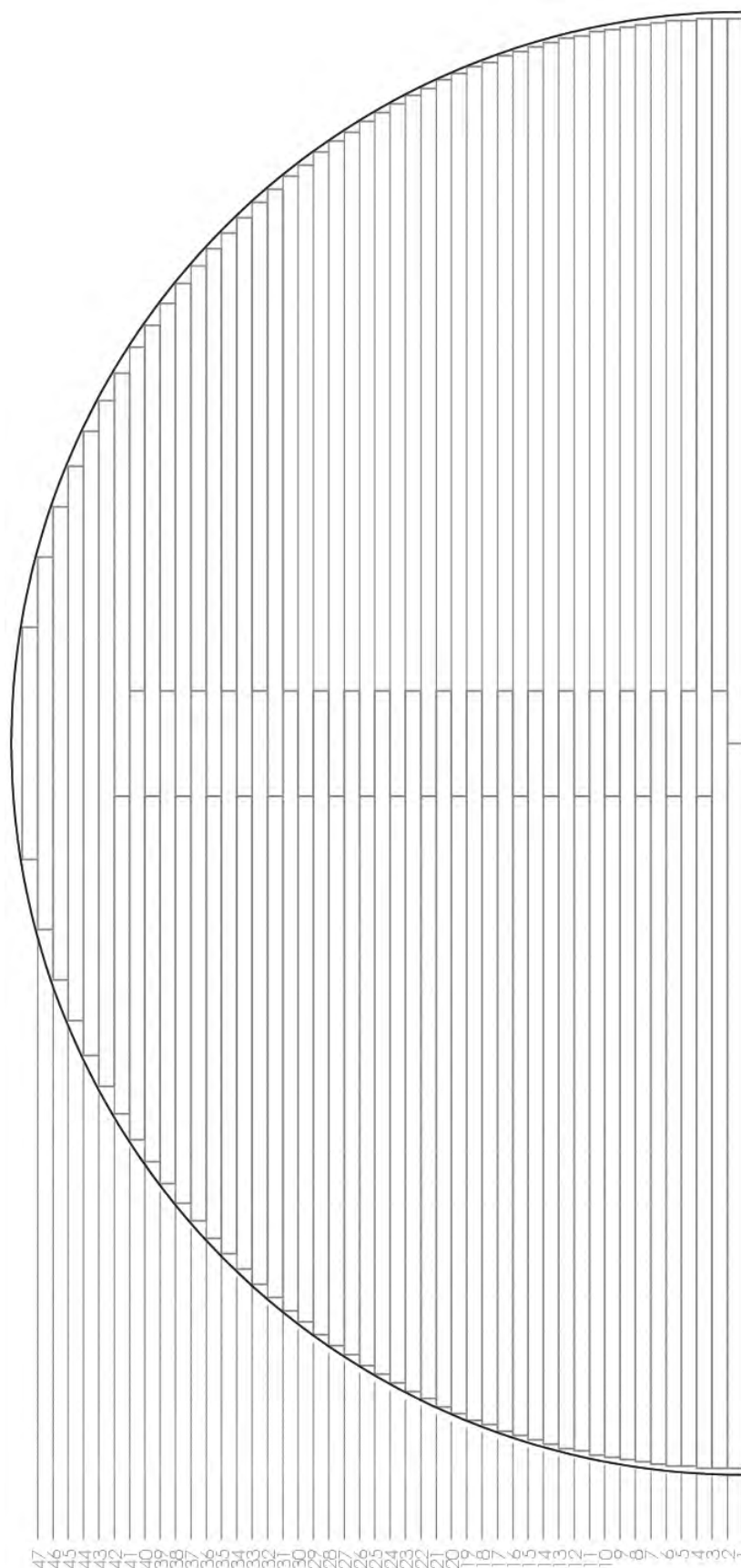
1. Label stacks as shown below by measuring bottom plank of each stack.
2. See layout on previous page. Plank closest to sidewall (Plank 41, measuring 8' 6") is starter plank. There is one in Stack 5 and one in Stack 8. It is shortest plank in each stack.
3. Lay out planks of Stacks 1 & Stacks 3-5. Install in descending order from Plank 41 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 35 for important notes.

49' 3" (15M) FLOOR (SPLIT)

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

55' 8" DIA. BIN PLANK LAYOUT



SWFS0014
07/02/2019 CLW

Layout & Location of Floor Planks

LOCATING PLANKS FOR 55' 8" DIA. BIN

A 55' 8" floor is shipped in eight stacks.

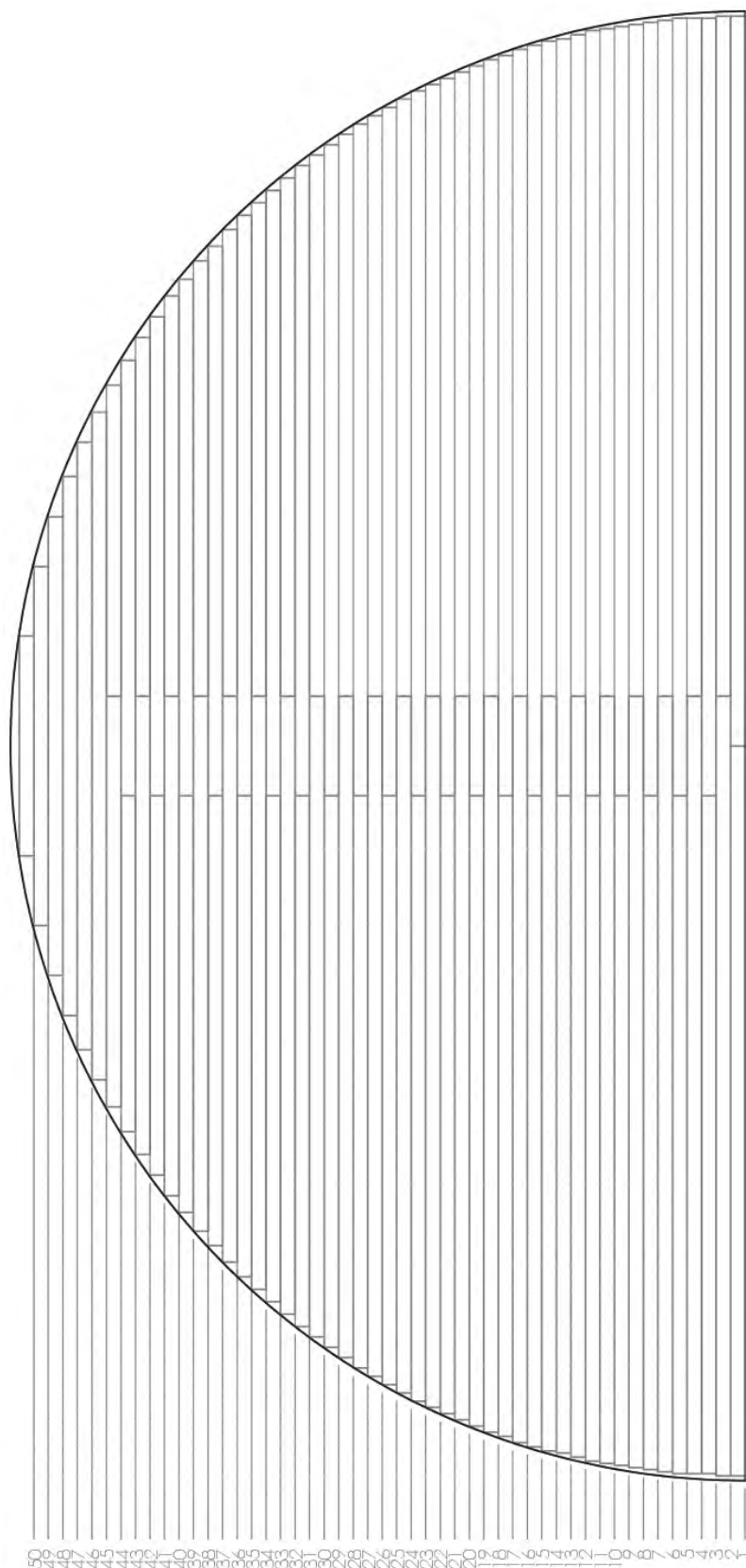
1. Label stacks as shown below by measuring top plank of each stack.
2. See layout on previous page. Plank closest to sidewall (Plank 47, measuring 8' 10") is starter plank. There is one in Stack 4 and one in Stack 8. It is shortest plank in each stack.
3. Lay out planks of Stacks 1-4. Install in descending order from Plank 47 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 35 for important notes.

55' 8" FLOOR

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

59' 1" (18M) DIA. BIN PLANK LAYOUT



SWFS0015
07/02/2019 CLW

Layout & Location of Floor Planks

LOCATING PLANKS FOR 59' 1" (18M) DIA. BIN

A 59' 1" floor is shipped in nine stacks.

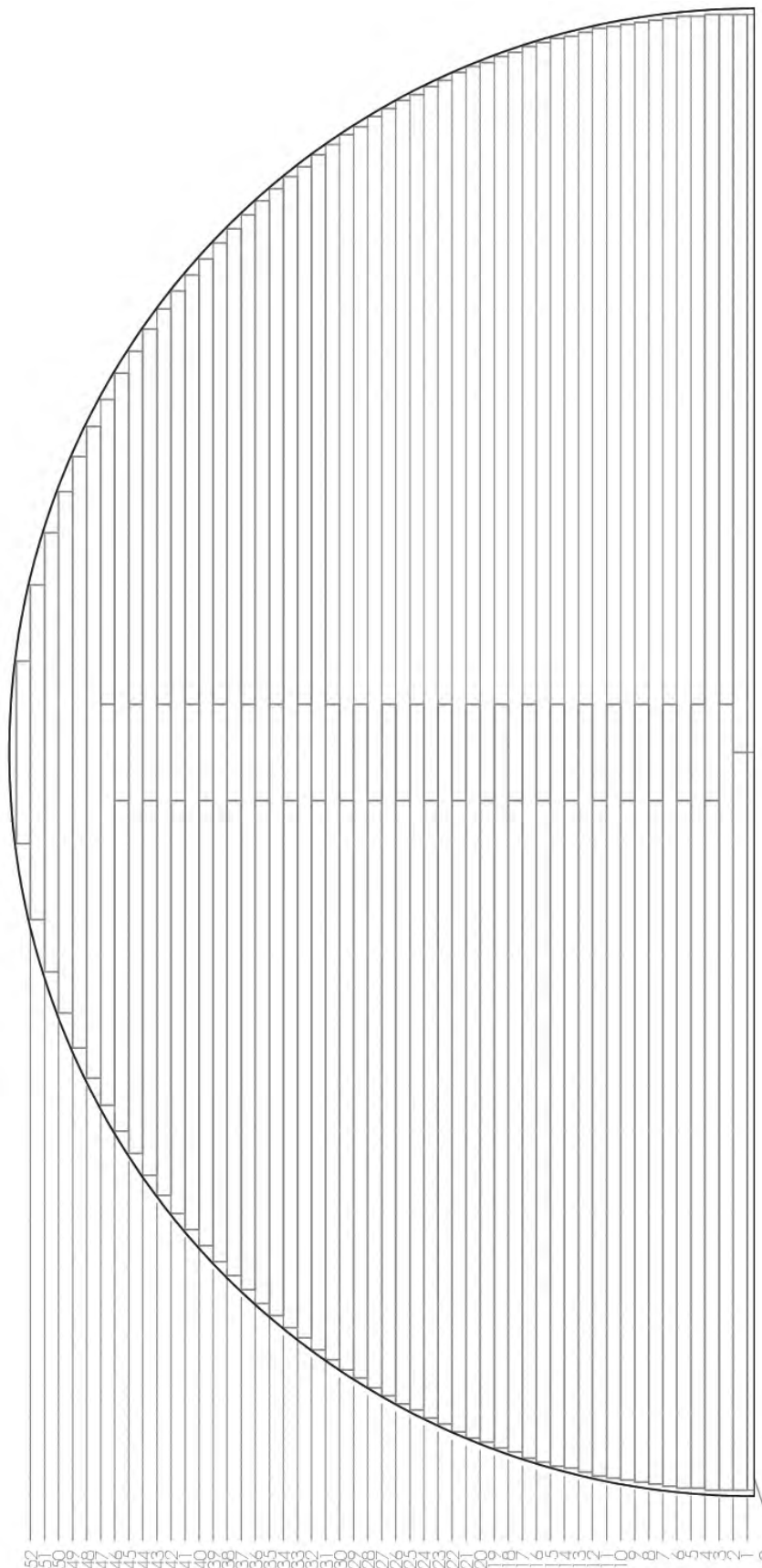
1. Label stacks as shown below by measuring top plank of each stack.
2. See layout on previous page. Plank closest to sidewall (Plank 50, measuring 8' 10") is starter plank. There are two in Stack 5. They are shortest planks in stack.
3. Lay out planks of Stacks 1-5. Install in descending order from 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 35 for important notes.

59' 1" (18M) FLOOR

Stacks 1 & 6		Stacks 2 & 7		Stacks 3 & 8		Stacks 4 & 9		Stack No. 5	
Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length
Bottom of Stack									
1A	29' 4"	12A	30' 7"	23A	28' 4"	34A	23' 10"	45	26' 10"
1B	29' 4"	12B	26' 7"	23B	24' 4"	34B	19' 10"	45	26' 10"
2A	31' 4"	13A	30' 5"	24A	28' 0"	35A	23' 4"	46	24' 5"
2B	27' 4"	13B	26' 5"	24B	24' 0"	35B	19' 4"	49	14' 5"
								50	8' 10"
3A	31' 3"	14A	30' 4"	25A	27' 8"	36A	22' 9"		
3B	27' 3"	14B	26' 4"	25B	23' 8"	36B	18' 9"	46	24' 5"
								49	14' 5"
4A	31' 3"	15A	30' 2"	26A	27' 4"	37A	22' 1"	50	8' 10"
4B	27' 3"	15B	26' 2"	26B	23' 4"	37B	18' 1"		
								47	21' 8"
5A	31' 3"	16A	30' 0"	27A	27' 0"	38A	21' 6"	47	21' 8"
5B	27' 3"	16B	26' 0"	27B	23' 0"	38B	17' 6"		
								48	18' 5"
6A	31' 2"	17A	29' 9"	28A	26' 7"	39A	20' 9"	48	18' 5"
6B	27' 2"	17B	25' 9"	28B	22' 7"	39B	16' 9"		
7A	31' 1"	18A	29' 7"	29A	26' 2"	40A	20' 1"		
7B	27' 1"	18B	25' 7"	29B	22' 2"	40B	16' 1"		
8A	31' 0"	19A	29' 4"	30A	25' 9"	41A	19' 3"		
8B	27' 0"	19B	25' 4"	30B	21' 9"	41B	15' 3"		
9A	30' 11"	20A	29' 1"	31A	25' 4"	42A	18' 5"		
9B	26' 11"	20B	25' 1"	31B	21' 4"	42B	14' 5"		
10A	30' 10"	21A	28' 10"	32A	24' 10"	43A	17' 6"		
10B	26' 10"	21B	24' 10"	32B	20' 10"	43B	13' 6"		
11A	30' 9"	22A	28' 7"	33A	24' 4"	44A	16' 6"		
11B	26' 9"	22B	24' 7"	33B	20' 4"	44B	12' 6"		
Top of Stack									

61' 10" DIA. BIN PLANK LAYOUT



LOCATING PLANKS FOR 61' 10" DIA. BIN

A 61' 10" 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 52, measuring 7' 7") 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 52 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 35 for important notes.

61' 10" 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
Bottom of Stack									
1A	30' 8"	11A	32' 1"	21A	30' 3"	31A	26' 10"	0	30' 8"
1B	30' 8"	11B	28' 1"	21B	26' 3"	31B	22' 10"	48	24' 7"
2A	32' 8"	12A	31' 11"	22A	29' 11"	32A	26' 4"	47	27' 1"
2B	28' 8"	12B	27' 11"	22B	25' 11"	32B	22' 4"	51	13' 11"
3A	32' 8"	13A	31' 9"	23A	29' 8"	33A	25' 11"	52	7' 7"
3B	28' 8"	13B	27' 9"	23B	25' 8"	33B	21' 11"	49	21' 8"
4A	32' 7"	14A	31' 8"	24A	29' 4"	34A	25' 5"	50	18' 3"
4B	28' 7"	14B	27' 8"	24B	25' 4"	34B	21' 5"	41A	21' 2"
5A	32' 7"	15A	31' 6"	25A	29' 1"	35A	24' 11"	41B	17' 2"
5B	28' 7"	15B	27' 6"	25B	25' 1"	35B	20' 11"	42A	20' 5"
6A	32' 6"	16A	31' 4"	26A	28' 9"	36A	24' 4"	42B	16' 5"
6B	28' 6"	16B	27' 4"	26B	24' 9"	36B	20' 4"	43A	19' 7"
7A	32' 5"	17A	31' 1"	27A	28' 5"	37A	23' 9"	43B	15' 7"
7B	28' 5"	17B	27' 1"	27B	24' 5"	37B	19' 9"	44A	18' 8"
8A	32' 4"	18A	30' 11"	28A	28' 0"	38A	23' 2"	44B	14' 8"
8B	28' 4"	18B	26' 11"	28B	24' 0"	38B	19' 2"	45A	17' 9"
9A	32' 3"	19A	30' 8"	29A	27' 8"	39A	22' 6"	45B	13' 9"
9B	28' 3"	19B	26' 8"	29B	23' 8"	39B	18' 6"	46A	16' 8"
10A	32' 2"	20A	30' 6"	30A	27' 3"	40A	21' 10"	46B	12' 8"
10B	28' 2"	20B	26' 6"	30B	23' 3"	40B	17' 10"		
Top 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 L1418 when requesting *Channel-Lok Hawk Cut Bin Floors & Supports Owner's Installation Manual* for Minor 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: _____



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