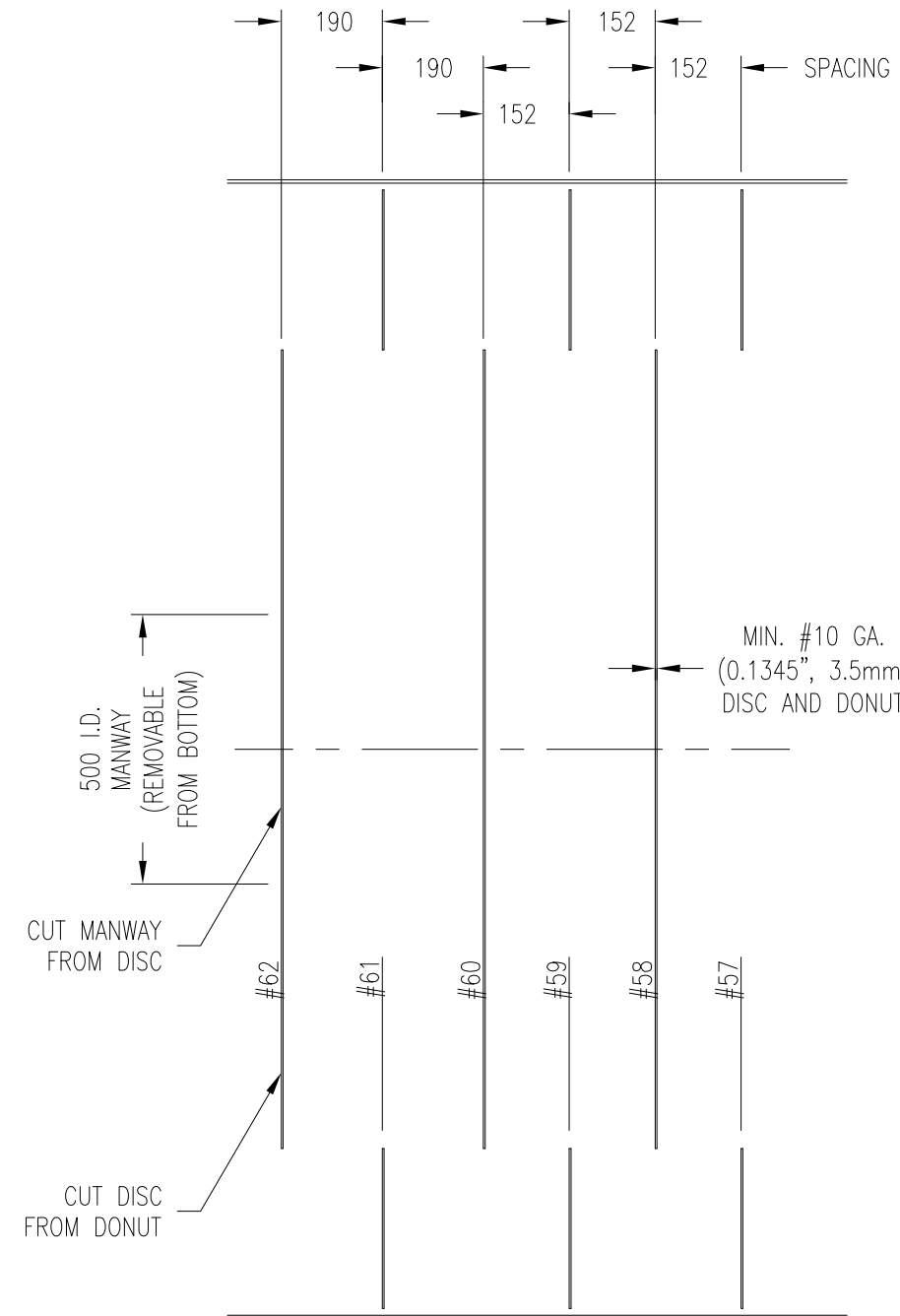


LIMIT OF NON-RADIAL DONUT SUPPORT

PLAN



SECTION

45 ASSEMBLIES REQUIRED PLUS 1 ADDITIONAL DONUT (45 DISCS AND 46 DONUTS)  
MATERIAL: TP-304L STAINLESS STEEL - TRAYS #1 THRU #91

- NOTES:  
 1. SEE MSD-1002 FOR DISC AND DONUT TRAY DETAILS.  
 2. 304L MAY BE SUBSTITUTED WITH DUAL GRADE 304/304L SS.

FOULED TRAY LOADS FOR SUPPORT CALCULATIONS:  
 DISC - 2,920 LBS. (1330kg) (DISTRIBUTED)  
 DONUT - 2,920 LBS. (1330kg) (DISTRIBUTED)  
 MAXIMUM COMBINED SUPPORT LOAD - 5,840 LBS. (2660kg)

FOULED TRAY LOADS FOR DEFLECTION CALCULATIONS:  
 DISC - 1,460 LBS. (665kg) (DISTRIBUTED)  
 DONUT - 1,460 LBS. (665kg) (DISTRIBUTED)  
 MAXIMUM COMBINED DEFLECTION LOAD - 2,920 LBS. (1330kg)

MAXIMUM TRAY DEFLECTION: 3mm UNDER LOAD CONDITIONS

1. NOTICE: The process design and other information contained on this drawing is the confidential property of KATZEN INTERNATIONAL, INC. and is protected by confidentiality agreement, copyright law, and trade secret law, and may not be used, reproduced, discussed with, or disclosed to, any unauthorized persons or organizations in any manner or for any purpose, without prior written approval by an authorized representative of KATZEN INTERNATIONAL, INC.  
 2. KATZEN INTERNATIONAL, INC. is authorized to practice engineering in the state of Ohio, USA. All code requirements shall be reviewed by a person or persons licensed to practice engineering in the applicable jurisdiction, unless stipulated otherwise.

								<b>BIOETANOL PAYSANDÚ</b>	
						<b>UTE ABENER TEYMA PAYSANDÚ</b>		<b>KATZEN INTERNATIONAL, INC.</b> TECHNOLOGY • ENGINEERING CINCINNATI, OHIO, U.S.A.	
						Scale: NONE		Nº Plano: 0003-PLN-KAT-05-62-0206	
						211,200 LITERS/DAY MOTOR FUEL GRADE ETHANOL PLANT EQUIPMENT SPECIFICATION		Sheets: 1 Sheet Nº: 1	
0	12/19/12	REV. 0 ISSUE	RLM	JDC	JDC	Origin: HJA		Client Nº: 1132-01 Dwg Nº: 05-206	
Rev.	Date	Description	Dwn By	Ckd By	Appd By	ITEM: T-507 N1		BEER STRIPPER #1 TRAYS #1 THRU #91	