

75,000 pd Red Hoist 195 Tecumseh

GENERAL NOTES

NOTE 1: IF THE EXISTING CONCRETE FLOOR SLAB MEETS THE REQUIREMENTS OF NOTES 1-A, 1-B, 1-C AND 1-D BELOW, THEN NO SPECIAL EQUIPMENT FOUNDATION REQUIREMENTS ARE REQUIRED AND THE LIFT MAY BE INSTALLED DIRECTLY ON THE EXISTING FLOOR SLAB.

NOTE 1-A: THE EXISTING CONCRETE FLOOR SLAB IS COMPRISED OF CONCRETE WHICH HAS A DOCUMENTED STRENGTH OF  $F_c = 4,000$  PSI OR GREATER USING HEAVY STONE AGGREGATE.

IF THE SLAB STRENGTH IS NOT DOCUMENTED, A CORE SAMPLE SHALL BE TAKEN AND TESTED TO DETERMINE AND DOCUMENT THE EXISTING STRENGTH. CONTACT ROTARY LIFT SYSTEMS, ENGINEERING SUPPORT GROUP FOR ASSISTANCE AND A WRITTEN PROCEDURE FOR PROPERLY TAKING CORE SAMPLES.

IF THE DOCUMENTED OR TESTED EXISTING CONCRETE STRENGTH IS BELOW 4,000 PSI BUT GREATER THAN 2,500 PSI, SPECIAL ENGINEERING CONSIDERATIONS ON A CASE-BY-CASE BASIS MAY BE MADE TO DETERMINE IF THE UNIT CAN BE INSTALLED ON THE "AS IS" EXISTING FLOOR. CONTACT ROTARY LIFT ENGINEERING SUPPORT GROUP FOR ASSISTANCE.

NOTE 1-B: THE EXISTING CONCRETE FLOOR SLAB HAS A THICKNESS EQUAL TO OR GREATER THAN THE MINIMUM REQUIRED SLAB THICKNESS SHOWN IN TABLE 1.

NOTE 1-C: THE EXISTING FLOOR SLAB IS REINFORCED AS REQUIRED BY THE SITE SOIL CONDITIONS AND THE VEHICLE LOAD LEVEL TO WHICH THE SLAB IS SUBJECTED. THE SLAB IS SIZED FOR VEHICLE WEIGHTS SIMILAR TO THE LOADS ACTUALLY BEING TRANSPORTED. CONSIDERATIONS SHOULD BE GIVEN TO THE QUESTION CONCERNING THE SLAB REINFORCING, AN ARCHITECT OR ENGINEER SHALL BE CONSULTED.

NOTE 1-D: THE EXISTING FLOOR SYSTEM IS A SLAB ON GRADE OR ON PROPERLY COMPACTED FILL MATERIAL.

IF THE EXISTING FLOOR SYSTEM IS A STRUCTURAL FLOOR, SPECIAL ENGINEERING CONSIDERATIONS MUST BE MADE BEFORE THE UNIT IS ATTACHED TO THE FLOOR. CONTACT ROTARY LIFT, ENGINEERING SUPPORT GROUP FOR ASSISTANCE.

NOTE 2: THE LIFT UNIT IS SUPPLIED WITH PRE-DRILLED BASE PLATES ON THE LOWER LEG BRACKETS FOR FIELD DRILLED VERGE BOLT CONCRETE ANCHORS. THE PRESCRIBED NUMBER OF BOLTS MUST BE INSTALLED AS THE ANCHORAGE IS RELIED UPON TO PREVENT THE BASE PLATES FROM MOVING HORIZONTALLY. THE ROTARY LIFT INSTALLATION GUIDE PROVIDES DETAILED INSTRUCTION FOR INSTALLING THE LIFT AND PROPER PROCEDURES TO ACCURATELY LOCATE THE MACHINE.

SPECIFIC ANCHOR BOLTS WHICH ARE APPROVED BY ROTARY LIFT FOR ANCHORING THE LOWER LEG BRACKETS ARE LISTED ON THE APPROVED ANCHOR BOLT DATA SHEET. ONLY APPROVED ANCHOR BOLTS SHALL BE USED AND NO OTHER SUBSTITUTIONS MAY BE USED UNLESS SPECIFICALLY APPROVED IN ADVANCE IN WRITING BY ROTARY LIFT, ENGINEERING SUPPORT GROUP. THIS APPROVAL SHALL BE ON A CASE-BY-CASE BASIS ONLY. PRODUCTS NOT APPROVED MAY NOT HAVE THE DOCUMENTED CAPACITY TO WITHSTAND THE FORCES EXERTED ON THE VERGE BOLT, AND THEREFORE MAY NOT MEET THE AUTOMOTIVE LIFT INSTITUTE CERTIFICATION REQUIREMENTS.

IN CERTAIN CASES DRILLED AND EPOXY GROUTED THREADED ROD ANCHORAGE MAY BE USED. THIS TYPE OF ANCHORAGE MUST BE APPROVED BY ROTARY LIFT ENGINEERING SUPPORT GROUP ON A CASE-BY-CASE BASIS. A WRITTEN PROCEDURE FOR THIS TYPE OF ANCHORAGE IS AVAILABLE UPON REQUEST. THE WRITTEN PROCEDURE CONTAINS A LISTING OF THE APPROVED PRODUCTS AND HARDWARE FOR THIS TYPE OF ANCHORAGE AND NO SUBSTITUTIONS MAY BE MADE UNLESS SPECIFICALLY APPROVED IN ADVANCE IN WRITING BY ROTARY LIFT, ENGINEERING SUPPORT GROUP.

NOTE 3: DRILLING THE HOLES FOR INSTALLATION OF THE VERGE BOLT CONCRETE ANCHORS, USING AN IMPACT HAMMER, SHOULD BE TAKEN SUCH THAT THE HOLE IS NOT DRILLED THROUGH THE SLAB. THE HOLE IS DRILLED THROUGH THE SLAB "BLOW OUT" OCCURS ON THE UNDERSIDE. THIS "BLOW OUT" CAUSES DIFFICULTY IN SETTING THE VERGE TYPE BOLT. IF THE CONCRETE SLAB THICKNESS IS NOT SIGNIFICANTLY GREATER THAN THE MINIMUM EMBEDMENT FOR THE BOLT'S, EXTRA CARE SHALL BE TAKEN WHEN DRILLING AND THE HOLE SHALL BE CLEANED THOROUGHLY BEFORE INSTALLING THE ANCHOR. THE MINIMUM SLAB THICKNESS AND MINIMUM EMBEDMENT DEPTH FOR THE BOLTS ARE SHOWN IN TABLE 1. THE BOLTS SHALL BE TORQUED TO THE VALUES SHOWN IN TABLE 1. NO ANCHOR BOLT SHALL EVER BE TORQUED TO THE INSTALLATION TORQUE MORE THAN ONE TIME. USE THE RETIGHTENING AND INSPECTION TORQUE VALUES AFTER THE BOLT HAS BEEN SET.

NOTE 4: THE LOCATION OF EXPANSION JOINTS IN THE EXISTING FLOOR SYSTEM SHOULD BE CONSIDERED IN LOCATING THE LOCATION OF EXPANSION JOINTS IN THE LOWER LEG BRACKETS. PLACEMENT OF AN EXPANSION JOINT OR NONE OF THE LOWER LEG BRACKETS SHALL BE PLACED CLOSER THAN 15 INCHES TO AN EXPANSION JOINT OR ANY FREE EDGE OF THE SLAB.

NOTE 5: FOR PROPER LIFT OPERATION THE LIFT PLATFORMS SHOULD BE INSTALLED LEVEL. IF THE FLOOR IS NOT LEVEL INSTALL FINGER SHIMS AT THE LOWER LEG BRACKETS TO PROVIDE A LEVEL PLATFORM. THE MAXIMUM FINGER SHIM THICKNESS IS ONE INCH, WHERE MORE SHIM THICKNESS IS REQUIRED, A SPECIAL LEVELING PLATE SHALL BE ORDERED AND INSTALLED. THIS LEVELING PLATE IS DESIGNED SUCH THAT THE HORIZONTAL PEARL FORCES ARE TRANSMITTED INTO THE FLOOR SYSTEM. IN CERTAIN CASES SPECIAL GROUT MAY BE USED TO LEVEL THE UNIT. CONTACT ROTARY LIFT ENGINEERING SUPPORT GROUP FOR A WRITTEN GROUTING PROCEDURE AND A LIST OF APPROVED MATERIAL, PRIOR TO LIFT INSTALLATION.

NOTE 6: ANY NEW CONCRETE USED FOR REPAIRS AND ALTERATIONS SHALL HAVE A MINIMUM STRENGTH OF  $F_c = 4,000$  PSI WITH HEAVY AGGREGATE.

NOTE 7: ANY NEW CONCRETE USED FOR REPAIR OF ALTERATIONS SHALL HAVE REINFORCING AS REQUIRED FOR THE SOIL CONDITIONS AND VEHICLE LOAD LEVEL. THE REINFORCING SHALL BE DETERMINED BY THE ARCHITECT OR ENGINEER.

NOTE 8: THE CONTROL PANEL MUST BE LOCATED IN THE IMMEDIATE VICINITY OF THE LIFT. IT SHOULD BE PLACED FAR ENOUGH AWAY TO ALLOW AMPLE WORK SPACE AROUND THE LIFT AND TO ALLOW FOR WHEEL REMOVAL AND OTHER ACTIVITIES. THE CONTROL PANEL MAY BE ON ANY SIDE OR AT EITHER END OF THE LIFT.

NOTE 9: PROVIDE ONE 4 INCH SCH 40 PIPE AS A HYDRAULIC SERVICE SUPPLY CONDUIT RUNNING FROM THE CONTROL PANEL TO EACH PLATFORM SERVICE LEG AT THE LOCATION SPECIFIED ON THE PLAN VIEW. MAXIMUM 90 DEGREE ELBOWS MAY BE USED. THE ELBOW FITTINGS SHOULD BE STREET ELBOWS WITH WIDE BEND RADIUS TO ALLOW THE PULLING OF HYDRAULIC HOSES.

NOTE 10: PROVIDE TWO (2) - 1 INCH RIGID CONDUITS PER LEG AS SERVICE SUPPLY CONDUITS RUNNING FROM THE CONTROL PANEL TO THE SERVICE LEG LOCATIONS SPECIFIED ON THE PLAN VIEW. THESE CONDUITS SHOULD BE INSTALLED ACCORDING TO ALL LOCAL AND NATIONAL ELECTRICAL CODES. A MAXIMUM OF FOUR 90 DEGREE BENDS MAY BE USED IN EACH RUN. EXPLOSION PROOF JUNCTION BOXES MUST BE USED.

NOTE 11: PROVIDE TEMPORARY PLUGS OR CAPS FOR ALL SERVICE CONDUIT OPENINGS.

NOTE 12: TWO CONDUITS MAY BE PROVIDED UNDER THE FLOOR RUNNING FROM THE BUILDING POWER SUPPLY TO THE CONTROL PANEL LOCATION. ONE CONDUIT MAY BE USED FOR THE POWER SUPPLY AND ONE MAY BE USED FOR SHOP AIR SUPPLY. ALTERNATIVELY THESE SUPPLY CONDUITS MAY BE BROUGHT TO THE CONTROL PANEL LOCATION OVERHEAD. THESE CONDUITS SHOULD BE INSTALLED IN ACCORDANCE WITH ALL LOCAL AND NATIONAL CODES.

A FUSED ELECTRICAL DISCONNECT AND AN AIR FILTER/REGULATOR/LUBRICATOR ARE REQUIRED AT THE CONTROL CONSOLE FOR INCOMING POWER AND AIR. THESE ARE TO BE SUPPLIED BY THE GENERAL CONTRACTOR.

NOTE 13: THE CONTROL SYSTEM REQUIRES A SEPARATE 115V/120V 1PH 60 HZ CIRCUIT OF 15 AMPERE. THIS WILL BE ADEQUATE FOR THE INSTALLATION OF THE OPTIONAL PLATFORM LIGHTING KIT. THE TOTAL NUMBER OF LIGHT FIXTURES IN THE STANDARD OPTIONAL LIGHT KIT IS SHOWN IN TABLE 1.

A FUSED ELECTRICAL DISCONNECT FOR THE CONTROL SYSTEM POWER SUPPLY SHALL BE PROVIDED BY THE GENERAL CONTRACTOR.

NOTE 14: MINIMUM REQUIREMENTS INDICATED IN TABLE 1 IS FOR LIFT UNIT OPERATION ONLY. IF THE OPTIONAL SHOP AIR KIT IS INSTALLED ON THE LIFT IT MUST BE CONSIDERED IN THE TOTAL MINIMUM REQUIREMENTS. ALSO EACH OPTIONAL ROLLING JACK CONSUMES 20 CFM AND REQUIRES 100 PSI MINIMUM OPERATING PRESSURE. THE AIR CASTER OPTION FOR THE RAMP ACTUATION CONSUMES LESS THAN 5 CFM.

NOTE 15: CONTACT ROTARY LIFT FOR APPROVAL PRIOR TO INSTALLATION OF ANY DEVIATIONS FROM THE REQUIREMENTS LISTED IN THIS DOCUMENT.

NOTE 16: MEASURE THE ACTUAL RUNNING DIMENSION FROM THE PRODUCT BEFORE INSTALLATION.

NOTE 17: INTERNALLY SAFE CONTROL WIRING MUST BE SEPARATED FROM NON-INTRINSICALLY SAFE WIRES BY A MINIMUM OF 2 INCHES.

REV	CD	NUM	DATE	BY
-	5432	9-20-02	SS/BDM	

GENERAL NOTES  
SURFACE MOUNTED

ROTARY LIFT

A JUDY® INDUSTRIES COMPANY

SS NONE

1 of 3

BDM 9-20-2002

REFR20003

TOLERANCE UNLESS OTHERWISE SPECIFIED: FRACTIONAL DIMENSIONS: ± 1/32" (OR ± .015") DECIMAL DIMENSIONS: ± .010" ANGULAR DIMENSIONS: ± 1°

DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED

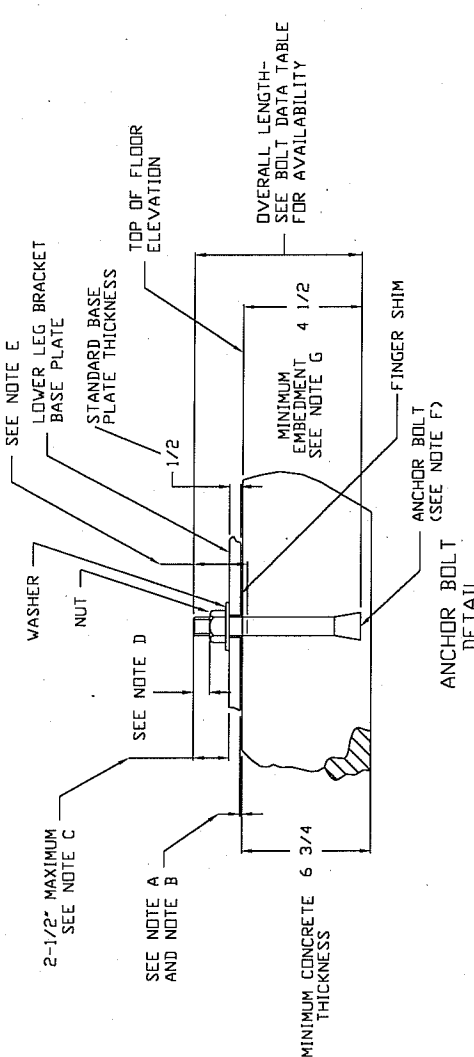
ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED

REMOVE ALL BURS

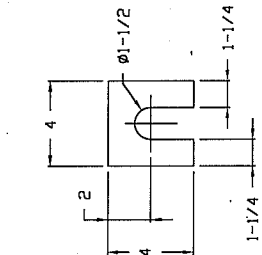
NOTES: 1. SEE DRAWING FOR DIMENSIONS AND TOLERANCES. 2. REMOVE ALL BURS. 3. REMOVE ALL BURS.

TYPICAL EQUIPMENT FOUNDATION REQUIREMENTS: CONSULT FACTORY PRIOR TO INSTALLATION, TO CONFIRM LATEST REVISION.

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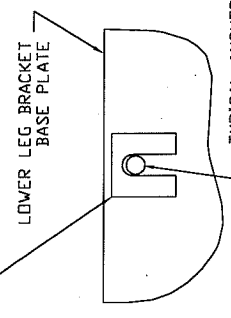
FOR NOTES SEE APPROVED ANCHOR BOLT DATA AND TORQUE SPECIFICATIONS SHEET



FINGER SHIM DETAIL

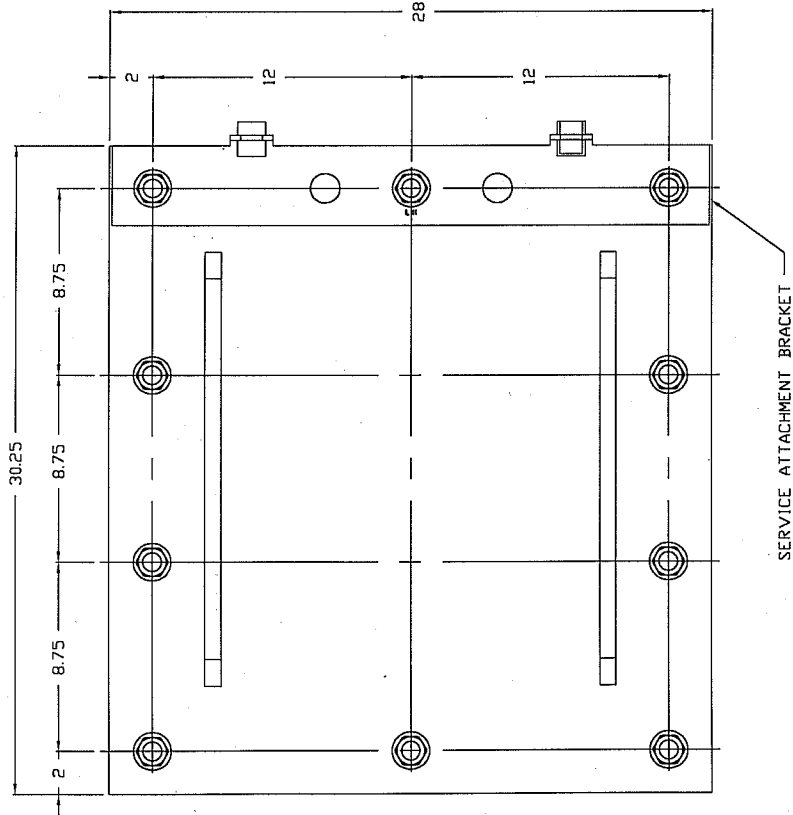
NOTE: FINGER SHIMS ARE AVAILABLE IN A RANGE OF THICKNESSES FROM 1/4" DOWN TO 20 GA.

PLACE FINGER SHIMS IN A STRAIGHT AND ARRANGED FASHION AT EACH ANCHOR BOLT ON ALL LOWER LEG BRACKETS. USE THIN SHIMS TO FULLY SHIM OUT EACH BOLT.



PLACEMENT OF FINGER SHIM DETAIL

NOTE: THE MAXIMUM HEIGHT OF ANY STACK OF SHIMS IS 1 INCH.



7" CYLINDER FOOTPRINT BOLT PATTERN  
1" ANCHORS  
SURFACE

REVISION	DATE	BY	REV/GD NUM
-	6294.12 06-23-05	KAK/BDM	
<p>NOTES:</p> <p>TOLERANCE UNLESS OTHERWISE SPECIFIED:          FRACTIONAL DIMENSIONS: ± 1/32" (± .125")          DECIMAL DIMENSIONS: ± .010"          ANGULAR DIMENSIONS: ± 1°          UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS IN INCHES          UNLESS INDICATED OTHERWISE ALL DIMENSIONS ARE TO FACE UNLESS ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE SPECIFIED</p> <p>NOTES:          TYPICAL EQUIPMENT FOUNDATION REQUIREMENTS: CONSULT FACTORY PRIOR TO INSTALLATION, TO CONFIRM LATEST REVISION.          The design and detail illustrated on this drawing is the property of Rotary Lift. It is being loaned with the expressed condition that it will not be duplicated or used except by permission and is subject to return upon request.</p>			
<p>ANCHORAGE DETAILS</p> <p>ROTARY LIFT</p> <p>A JUDVER INDUSTRIES COMPANY</p> <p>PROJECT: NONE          SHEET: 1 OF 3          DRAWING NUMBER: BDM 6-23-2005</p>			

REFR70009

TABLE ONE \*TO BE SUPPLIED BY GENERAL CONTRACTOR

TYPICAL MATERIAL LIST

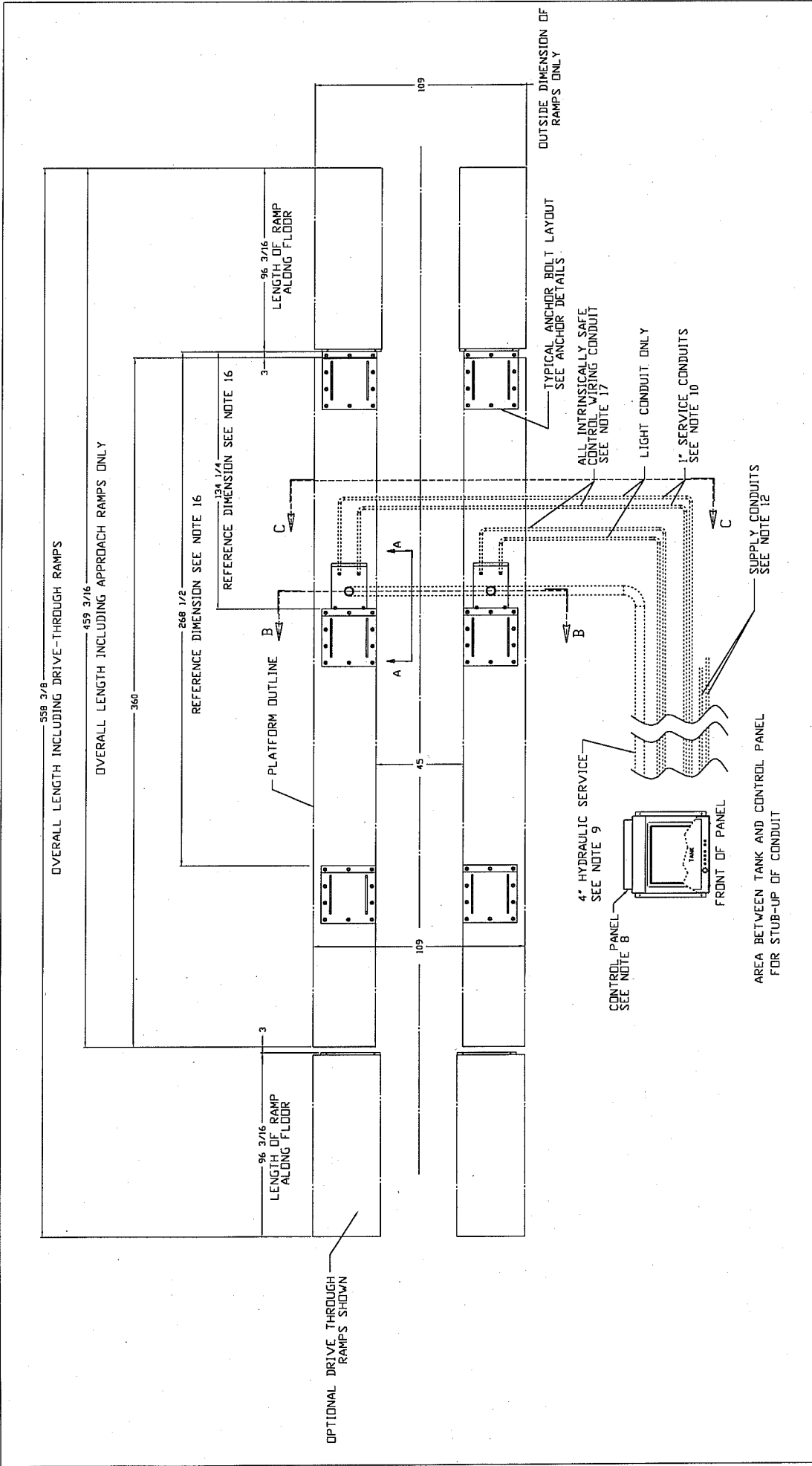
TABLE ONE	75/30S	*TO BE SUPPLIED BY GENERAL CONTRACTOR
LIFT UNIT DATA	TYPICAL MATERIAL LIST	
MAXIMUM LOAD CAPACITY (LBS)	ITEM	DESCRIPTION
SHIPPING WEIGHT (LBS)	1*	4" SCH 40 PIPE
ANCHORAGE	2*	4" SCH 40 STREET ELBOW
ANCHOR BOLT DIAMETER	3*	4" SCH 40 TEE
NUMBER OF BOLTS PER LEG	4*	1" RIGID CONDUIT
BOLT PATTERN	5*	1" SEAL BARRIER
INSTALLATION TORQUE (FT-LBS.)	6*	SEALTITE FLEXIBLE CONDUIT
ANCHOR RE-TIGHTENING TORQUE (FT-LBS.)	7*	4 X 4 X 2 NEMA 12 JUNCTION BOX
ANCHOR STATIC INSPECTION TORQUE (FT-LBS.)	8*	1" ANCHOR BOLTS
MINIMUM EMBEDMENT LENGTH (IN)	9*	EXPLOSION PROOF BOX
MINIMUM CONCRETE THICKNESS (IN)		ALUMINUM, APPLETON GRUE 100-A
HYDRAULIC		
HYDRAULIC CYLINDER DIA. (IN)	7"	
RESERVOIR CAPACITY (GAL)	25	
OIL TYPE	ISO32 DR AW32	
ELECTRICAL		
MOTOR HORSEPOWER	20	
208/230V, 3PH, MOTOR (FLA)	62/54	
DR 460V 3PH, MOTOR (FLA)	27	
CONTROLS - 120V 1PH	5 AMPERE	
OPTIONAL LIGHT PACKAGE	6 BULBS	
120V 1PH SEE NOTE 13		
SHOP AIR		
AIR PRESSURE (PSI)	90-110	
AIR VOLUME (CFM), LIFT ONLY, SEE NOTE 14	5	
AIR VOLUME (CFM) PER ROLLING JACK, SEE NOTE 14	20	

TOLERANCE UNLESS OTHERWISE SPECIFIED: FRACTIONAL DIMENSIONS: ± 1/32" (12" OR LARGER) DECIMAL DIMENSIONS: ± .010" ANGULAR DIMENSIONS: ± 1° VOLTAGE: 200/230V NOTES:		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS IN INCHES 1/8" ROUNDOFF ALL CORNERS
LIFT UNIT SPECIFICATIONS TABLE ONE AND MATERIAL LISTS		DRAWING NO. KAK PROJECT NO. NONE SHEET NO. 1 OF 1 REFR90056
ROTARY LIFT A JUDYER INDUSTRIES COMPANY		PROJECT NO. BDM DATE: 6-27-2005
REV CD NUM A 6294.1B - 6294.1B	DATE 3-31-06 6-27-05	BY KAK/BDM KAK/BDM

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TO EXAMINE UNLESS OTHERWISE SPECIFIED:		INDICATION	INDICATION
FRACTIONAL DIMENSIONS:	$\pm 1/32"$ (1:125)	DO NOT SCALE DRAWING	
DECIMAL DIMENSIONS:	$\pm 0.010"$	UNLESS OTHERWISE SPECIFIED	
ANGULAR DIMENSIONS:	$\pm 1'$	ALL DIMENSIONS IN INCHES	
NOTE:	SEE DIMENSION LINE	VECT. TYP. SIZE: 1/8" (1:25)	
TYPICAL EQUIPMENT FOUNDATION REQUIREMENTS:			
CONSULT FACTORY PRIOR TO INSTALLATION, TO			
CONFIRM LATEST REVISION			
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-		6294.12	6-23-05
		KAK/BDM	
		DATE	BY

PLAN VIEW  
75/30S

ROTARY LIFT

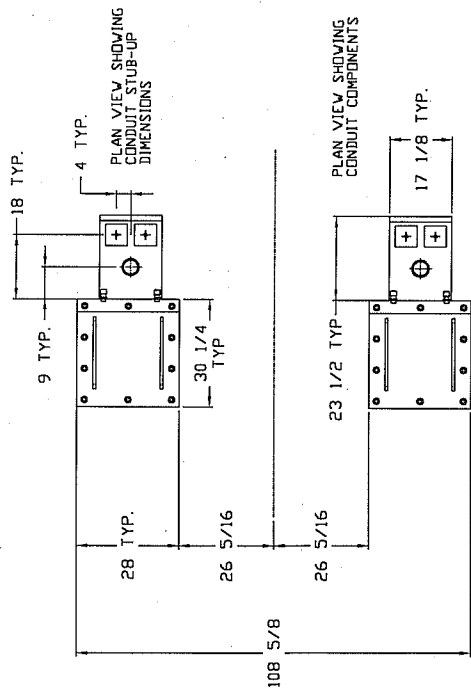
INDUSTRIES COMPANY

PROJECT: 1 OF 3

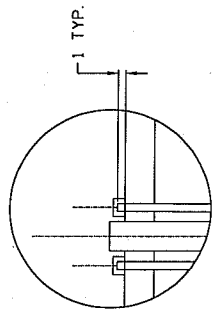
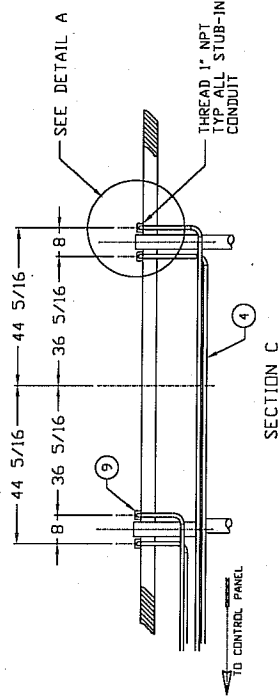
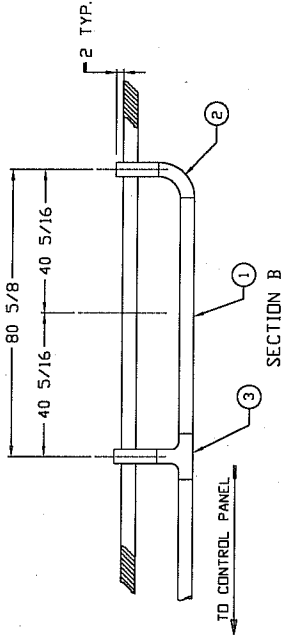
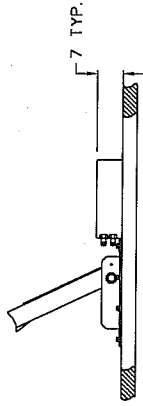
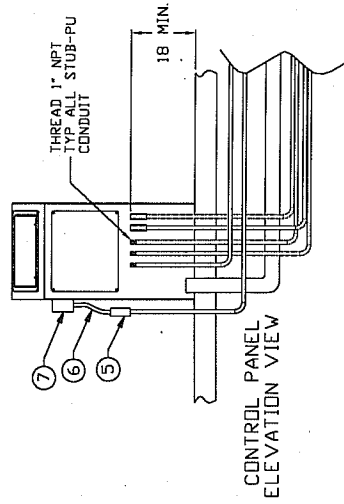
DATE: 6-23-2005

BDM

REFR30055

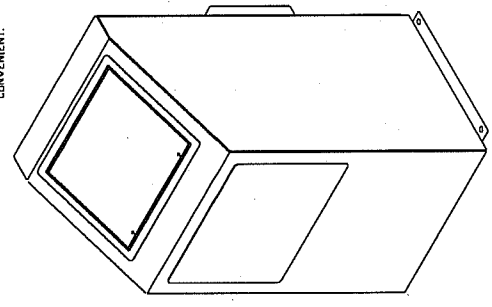
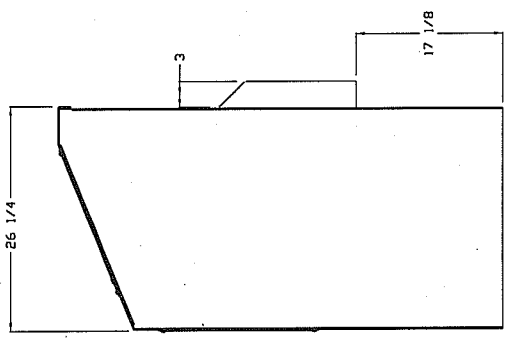
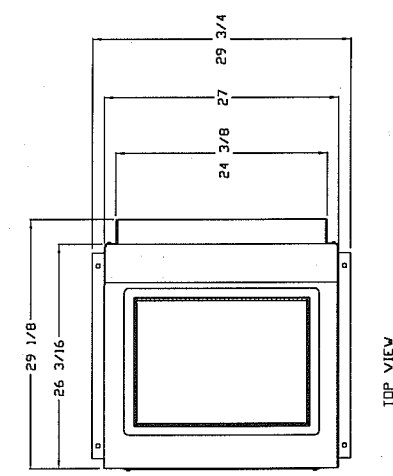
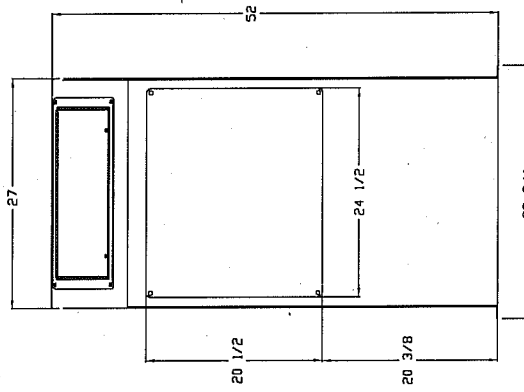
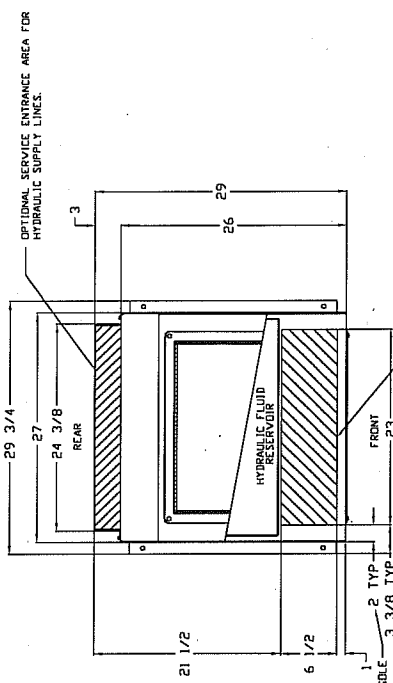


SERVICE LEG AREA PLAN VIEW



7" MACHINE SURFACE

TOLERANCE UNLESS OTHERWISE SPECIFIED:		PRODUCTION	UNDER-FLOOR SERVICES	
FRACTIONAL DIMENSIONS: ± 1/32" TO 1/8" (12")	DO NOT SCALE DRAWING	SECTION	SECTIONS AND DETAILS	
DECIMAL DIMENSIONS: ± .010"	UNLESS OTHERWISE SPECIFIED	PROJECT	ROTARY LIFT	
ANGULAR DIMENSIONS: ± 1'	ALL DIMENSIONS IN INCHES	DATE	A JUDY INDUSTRIES COMPANY	
WELD BEAD SIZE: 1/8" TO 3/8"	UNLESS OTHERWISE SPECIFIED	ISSUE	1 OF 1	
WELD BEAD LENGTH: 1/2" TO 2"	UNLESS OTHERWISE SPECIFIED	APPROVAL	NONE	
WELD BEAD WIDTH: 1/8" TO 1/4"	UNLESS OTHERWISE SPECIFIED	PROJECT NO.	BDM 6-24-2005	
WELD BEAD FINISH: NONE	UNLESS OTHERWISE SPECIFIED	REV	REFR0015	
NOTES:		TYPICAL EQUIPMENT FOUNDATION REQUIREMENTS:		
CONFIRM LATEST REVISION		CONSULT FACTORY PRIOR TO INSTALLATION, TO		
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-	6294.12	6-24-05	KAK/BDM	



TRIMETRIC VIEW

TOLERANCE UNLESS OTHERWISE SPECIFIED:	FRAC TIONAL DIMENSIONS: ± 1/32" (± .031")	DECIMAL DIMENSIONS: ± .010"	ANGULAR DIMENSIONS: ± 1°	WELD BEAD SIZE: 1/8" (1.6mm) UNLESS OTHERWISE SPECIFIED
UNLESS OTHERWISE SPECIFIED:	DO NOT SCALE DRAWING			
ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED				
UNLESS OTHERWISE SPECIFIED: REMOVE ALL BURRS				
NOTES:				
TYPICAL EQUIPMENT FOUNDATION REQUIREMENTS: CONSULT FACTORY PRIOR TO INSTALLATION, TO CONFIRM LATEST REVISION.				
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REV/CD NUM	5446	DATE	9-9-02	SS/BDM
				BY

CONTROL CONSOLE  
DETAILS

ROTARY LIFT  
A JDDVER INDUSTRIES COMPANY

SS NONE  
1 OF 1  
BDM 9-9-2002  
REFR60001



STANDARD ANCHOR BOLT DIMENSIONS

RAWL NUMBER	HILTI CATALOG	OVERALL LENGTH	SHIM THICKNESS	MAXIMUM SHIM THICKNESS
7463	-	9"	2-1/4"	(SEE NOTE A)
7465	286019	12"	4"	(SEE NOTE A&B)

NUTS AND WASHERS ARE SUPPLIED WITH ALL ANCHOR BOLTS

APPROXIMATE NUT DIMENSIONS

NUT SIZE	WIDTH ACROSS FLATS	HEIGHT
1"	1-1/2"	55/64"

APPROXIMATE WASHER DIMENSIONS

WASHER SIZE	INSIDE DIAMETER	OUTSIDE DIAMETER	THICKNESS
1"	1-1/16"	2-1/2"	5/32"

NOTE A: THIS DIMENSION REPRESENTS THE SHIM THICKNESS. THE MAXIMUM FINGER SHIM THICKNESS IS 1". WHEN MORE THAN 1" SHIM THICKNESS IS REQUIRED AT ANY ONE OR MORE ANCHOR BOLT ON ANY ONE OR MORE LOWER LEG BRACKET THEN A SPECIAL FULL SIZE CONTACT SHIM IS REQUIRED. THE FULL SHIM IS SUPPLIED BY ROTARY LIFT AND IS DESIGNED IN SUCH A WAY AS TO PREVENT BENDING OF THE ANCHOR BOLT GROUP.

NOTE B: WHEN MORE THEN 4" OF SHIM THICKNESS IS NEEDED, A SPECIAL SITE SPECIFIC ANCHORAGE DESIGN IS REQUIRED. CONTACT ROTARY LIFT, ENGINEERING GROUP FOR ASSISTANCE IN THIS CASE.

NOTE C: IN CERTAIN CIRCUMSTANCES THIS DIMENSION WILL NEED TO BE LIMITED TO A MAXIMUM OF 2-1/2" TO AVOID INTERFERENCE WITH THE PLATFORM TUBE MEMBERS AND THE TAPE SWITCH RUNNING THE LENGTH OF THE PLATFORM. IF ANCHOR BOLTS EXTEND ABOVE 2-1/2" THEN IN THOSE CASES THEY NEED TO BE CUT TO LENGTH AFTER INSTALLATION.

NOTE D: USE MINIMUM 3/4" BOLT LENGTH BEYOND THE NUT ON ALL LEG LOWER LEG BRACKETS. THIS WILL YIELD A MINIMUM OF 1/2" BOLT LENGTH AT THE SERVICE BRACKET ATTACHMENT. THIS PROCEDURE WILL PROVIDE ADEQUATE LENGTH THROUGHOUT.

NOTE E: THE THREAD LENGTH FOR 1" DIAMETER RAWL BOLTS VARIES, HOWEVER THE MINIMUM THREAD LENGTH IS 5-3/8". THE THREAD LENGTH FOR 1" DIAMETER HILTI BOLTS VARIES, HOWEVER THE MINIMUM THREAD LENGTH IS 6". THE STANDARD OVERALL LENGTH IS MEASURED FROM EXTREME END TO END.

NOTE F: THE REPAIR OF DAMAGED OR MISS-ALIGNED ANCHOR BOLTS SHALL BE MADE ACCORDING TO THE WRITTEN PROCEDURE "PARALLELOGRAM LIFT SYSTEMS PROCEDURE FOR REMOVAL, REPAIR, AND/OR RELOCATION OF EXPANSION WEDGE BOLT CONCRETE ANCHORS". THIS PROCEDURE IS AVAILABLE FROM ROTARY LIFT, ENGINEERING GROUP.

NOTE G: THE EMBEDMENT DEPTH IS DEFINED AS THE DISTANCE FROM THE SURFACE OF THE CONCRETE TO THE EXTREME BOTTOM OF THE ANCHOR BOLT PRIOR TO APPLYING THE INSTALLATION TORQUE. IT IS NATURAL FOR THE ANCHOR TO BE PULLED UP SLIGHTLY DUE TO THE SETTING ACTION OF THE ANCHOR

APPROVED ANCHOR BOLT LIST

ANCHOR BOLTS WHICH ARE APPROVED FOR USE ARE:

1. POWER-STUD CARBON STEEL OF THE DIAMETER SIZE SHOWN IN TABLE 1.

MANUFACTURED BY: THE RAWPLUG COMPANY, INC.  
NEW ROCHELLE  
NEW YORK, 10802  
TELEPHONE NUMBER 914-235-6300

LOAD CAPACITY OF POWER-STUD ANCHORS ARE LISTED IN INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS REPORT NO. 5225, AND FOR 7/8", 1" AND 1-1/4" DIAMETER BOLTS LOAD CAPACITY IS LISTED IN SUMMARY REPORT BY CTI ENGINEERING REPORT NUMBER SR17 DATED OCTOBER 31, 1995.

2. HILTI, INC. CARBON STEEL OF THE DIAMETER SIZE SHOWN IN TABLE 1.

MANUFACTURED BY: HILTI, INC.  
5400 S. 122 E. AVENUE  
TULSA, OK 74146  
TELEPHONE NUMBER 1-800-879-8000

LOAD CAPACITY OF KWIK BOLT 3 ARE LISTED IN ICC REPORT NO. ESR-1385

NO SUBSTITUTIONS SHALL BE MADE UNLESS PRIOR WRITTEN APPROVAL HAS BEEN GRANTED BY ROTARY LIFT, ENGINEERING SUPPORT GROUP ON A SPECIFIC LIFT INSTALLATION. THIS APPROVAL WILL ONLY BE GRANTED ON A CASE BY CASE BASIS. USE OF ANCHOR BOLTS WHICH ARE NOT APPROVED MAY NOT HAVE THE DOCUMENTED LOAD CARRYING CAPACITY TO WITHSTAND THE FORCES EXERTED ON THE ANCHORAGE AND MAY, THEREFORE, NOT MEET THE REQUIREMENTS OF THE AUTOMOTIVE LIFT INSTITUTE CERTIFICATION CRITERIA



REV	CD	NUM	DATE	BY
-	6294.12	6-24-05	KAK/BDM	

TOLERANCE UNLESS OTHERWISE SPECIFIED:	UNLESS OTHERWISE SPECIFIED:
FRACTIONAL DIMENSIONS: ± 1/32" (K 1/2")	DO NOT SCALE DRAWING
DECIMAL DIMENSIONS: ± 0.01"	UNLESS OTHERWISE SPECIFIED
ANGULAR DIMENSIONS: ± 1°	ALL DIMENSIONS IN INCHES
VOID BEING ZERO UNLESS OTHERWISE SPECIFIED	UNLESS OTHERWISE SPECIFIED
NOTES:	REMOVE ALL BURS

APPROVED ANCHOR BOLT DATA AND TORQUE SPECIFICATIONS												
<table border="1"> <tr> <td>DRAWN</td> <td>KAK</td> <td>DATE</td> <td>6-24-2005</td> </tr> <tr> <td>CHECKED</td> <td>NONE</td> <td>SCALE</td> <td>1 OF 1</td> </tr> <tr> <td>APPROVED</td> <td></td> <td>PROJECT</td> <td>REFR80005</td> </tr> </table>	DRAWN	KAK	DATE	6-24-2005	CHECKED	NONE	SCALE	1 OF 1	APPROVED		PROJECT	REFR80005
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