



**STEP 1:** FABRICATE TUBE 'A' AT LENGTH SHOWN.

NOTES: \* ALL WELDS SHALL BE GROUND SMOOTH & GALVANIZED PAINT SHALL BE APPLIED AFTER WELDING IS COMPLETE AT ALL WELDED AREAS.

**STEP 2:** CUT THE CURVED PROFILE OF THE TOP OF TUBE 'B'. SEE DTL'S 1 & 3 ON S2.5 FOR THE PLAN VIEW AND AXONOMETRIC VIEW OF TUBE 'B'. TUBES 'B' & 'C' WILL BE JOINED TOGETHER AS ONE ROTATING TUBE HINGE TUBE 'B' WILL BE THE STATIONARY BOTTOM HALF OF TUBE HINGE DESIGN.

NEXT, FABRICATE TUBE 'B' AT LENGTH SHOWN ABOVE AND INSERT TUBE 'A' INTO TUBE 'B'. WELD TUBE 'A' TO TUBE 'B' PER DETAIL ABOVE. (PRIOR TO INSTALLING TUBE 'C' OVER TUBE 'A') LEAVE 1/16" GAP BETWEEN OUTSIDE WALL OF TUBE 'A' AND INSIDE WALL OF TUBE 'B' (GAP SHALL BE CONTINUOUS ALL AROUND TUBE.)

NEXT, CUT CURVED PROFILE FOR BOTTOM OF TUBE 'C', AS PER DTL'S 2 & 4 ON S2.5 THE CURVED PROFILES OF 'B' & 'C' SHALL MATCH UP WHEN TOGETHER.

**IMPORTANT NOTE:** \* DO NOT WELD ALONG THE EXPOSED EDGE OF THE CURVED HINGE PROFILE AT TOP OF TUBE 'B'. CURVED BOTTOM OF TUBE 'C' MUST SLIDE OVER CURVED TOP OF TUBE 'B' AS TUBE HINGE ROTATES AROUND TUBE 'A'.

**STEP 3:** CUT TUBE 'C' AT LENGTH SHOWN.

NEXT, DRILL THREADED HOLE FOR 'GREASE FITTING' AS SHOWN IN DETAILS 2 & 4 ON S2.5 AND INSERT THREADED GREASE FITTING. TUBE 'C' IS THE ROTATING 'UPPER HALF' OF THE HINGE DESIGN.

NEXT, WELD THE METAL FLAT BAR GATE 'SHIM' TO TUBE 'C' AT ABOVE LOCATIONS. TUBE 'B' AND 'C' SHALL HAVE IDENTICAL INNER & OUTER DIAMETERS.

NEXT, SLIDE TUBE 'C' OVER TUBE 'B'. ALIGN SLOPED SECTION OF TUBE 'C' WITH MATCH UP THE CURVED PROFILE OF TUBE 'B' AS SHOWN IN THE ABOVE DRAWING. TUBE 'C' WILL ROTATE AROUND TUBE 'A'. ALLOW CONT'S 1/16" GAP BTWN TUBE 'C' & 'A'.

**STEP 4:** FABRICATE 1/8" THK. CIRCULAR METAL CAP FOR TUBE 'C' AND WELD CAP TO TOP OF TUBE 'C' AS SHOWN ON ELEV'S ABOVE.

NEXT, INSTALL VIRGIN PTFE (TEFLON) SLEEVE 3" LONG, WITH 1/16" WALL THICKNESS. SLEEVE TO BE FACTORY CHEMICALLY ETCHED ON OUTSIDE DIAMETER FACE ONLY. OUTSIDE DIAMETER OF SLEEVE TO MATCH INSIDE DIAMETER OF TUBE 'C' EXACTLY.

NEXT, INSERT TEFLON SLEEVE AT LOCATION SHOWN ON ELEVATION ABOVE AND ADHERE SLEEVE TO INSIDE FACE OF TUBE 'C', USING EPOXY ADHESIVE. INTERIOR DIAMETER FACE OF TEFLON TO BE LEFT UNALTERED TO PROVIDE A SELF LUBRICATING SURFACE AT THE POINT OF FRICTION BETWEEN TUBES 'C' & 'A'.

**IMPORTANT !!! READ !!!** PRIOR TO WELDING GATE SHIMS TO GATE FRAME, FRAME UP FORMWORK FOR TRASH ENCLOSURE WALL FOOTING, THEN, FRAME UP FORMWORK FOR 'GATE HINGE' FOOTING. SHORE UP 'GATE HINGES' IN LOCATIONS AS SHOWN IN TRASH ENCLOSURE PLAN (SEE L1.04). THE GATE HINGES ARE TO BE SHORED UP IN PLACE PRIOR TO FOOTING FOR TRASH ENCLOSURE WALL BEING POURED. MAKE SURE TO SHORE UP THE GATE HINGES WITH THE 'GATE SIDE' OF THE HINGE AT A 90° ANGLE TO THE SHORT WALLS OF THE TRASH ENCLOSURE (SEE L1.04) TO LOCATE THE 'GATE SIDE' OF THE HINGE IN PLAN VIEW. ENSURE HINGE SHIMS OF OPPOSING 'GATE HINGES' ARE FACING EACH OTHER WHEN SHORED UP AND PRIOR TO POURING FOOTINGS.

**IMPORTANT !!! READ !!!** PRIOR TO WELDING GATE SHIMS TO GATE FRAME, FILL TUBES 'A' WITH CONCRETE AND CONSOLIDATE CONCRETE BY MECHANICAL VIBRATION. DO THIS AFTER FOOTINGS FOR WALL AND HINGES HAVE BEEN POURED.

**1 GATE HINGE COMPLETE ASSEMBLY**



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FOUNDATION DETAILS

100% SUBMITTAL

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S2.4