THE FOLLOWING IS A NON-COMPREHENSIVE LIST OF ITEMS SUGGESTED FOR INSTALLING THE COMPONENTS. IT IS THE INSTALLER'S RESPONSIBILITY TO UNDERSTAND THE INSTALLATION PROCESS AND THE TOOLS REQUIRED PRIOR TO PERFORMING THE WORK.

SNAP RING PLIERS | MACHINIST LEVEL & BUBBLE LEVEL | CHALK TO MARK PEDESTAL LOCATION
15/16" HEX WRENCH | HAMMER DRILL | BANDING SHEAR FOR PALLETT DISASSEMBLY
1 1/16" HEX WRENCH | 5/8" CONCRETE BIT | FISH TAPE FOR ROUTING HOSES
1 1/8" HEX WRENCH | VACUUM TO CLEAR ANCHOR BOLT HOLES | EYE BOLTS FOR LIFTING PEDESTAL
1 1/2" HEX WRENCH | EXTENSION CORDS | SLINGS
3/8" ALLEN HEX | LADDERS | PERSONAL PROTECTIVE EQUIPMENT
5/8" ALLEN HEX | MAN LIFT | 3/4-10 X 4 ALIGNMENT STUDS TO HELP ALIGN
TORQUE WRENCH | PLUMBING TOOLS | THE SAM ONTO THE PEDESTAL
C-CLAMPS | ELECTRICAL TOOLS | FORKLIFT OR CRANE TO LIFT THE SAM INTO POSITION
DRILL | LAYOUT PRINT & TAPE MEASURE |"
Attach air line thru pedestal before attaching to bearing if air is bottom feed.

Before lifting set fork truck so that fork is contacting back of lift section.

Place cardboard on fork to protect paint.

Secure manipulator with C-clamps.

Remove tooling before lifting manipulator.

2x 3/4-10 x 3" long bolts with the head cut can be used as alignment pins -- not supplied--.

Detail F

Scale 1 : 12

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TORQUING THE BEARING BOLTS:
1. ADD SERVICE GRADE THREAD LOCKER TO THE BOLTS.
2. TORQUE THE BOLTS IN A STANDARD STAR PATTERN AS SHOWN IN RED USING STAGED TORQUE PROCEDURE.
3. ROTATE BEARING ONE FULL ROTATION BOTH DIRECTIONS BETWEEN STAGES TO VERIFY FREE ROTATION.
4. STAGED TORQUE PROCEDURE
   STAGE 1: 49 FT-LBS
   STAGE 2: 98 FT-LBS
   STAGE 3: 147 FT-LBS

**SECTION H-H**
SCALE 1:8

**APPROXIMATE CENTER OF GRAVITY FOR SAM**

**APPROXIMATE LIFT WEIGHT OF 1,000 LBS.**
SEE PROFILE FOR PROJECT SPECIFIC WEIGHTS