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SANDIA NATIONAL LABORATORIES
FACILITIES ENGINEERING

DRAWING NO.:

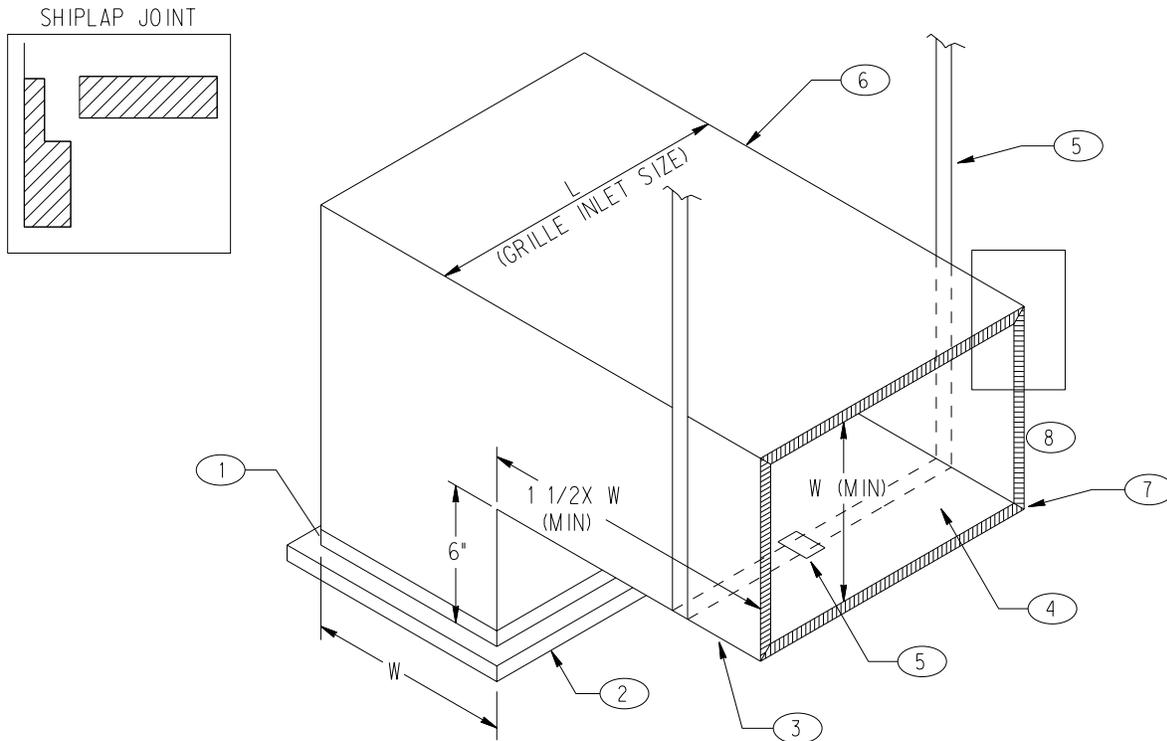
MH5011

SCALE:

NONE

**MECHANICAL
DISCIPLINE**

R.A GRILLE SOUND ELBOW



KEYED NOTES

- ① SECURE SOUND ELBOW TO RETURN GRILLE. TAPE TO GRILLE.
- ② RETURN AIR GRILLE IN CEILING. SEE PLANS AND SCHEDULE FOR SIZE AND TYPE.
- ③ COORDINATE SOUND ELBOW INSTALLATION WITH STRUCTURE, LIGHT FIXTURES AND OTHER OBSTRUCTIONS. SUBMITALS FOR PROPOSED CHANGES TO THIS DETAIL SHALL BE STAMPED FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK.
- ④ MAINTAIN SAME FACE AREA AS GRILLE (MIN.).
- ⑤ SUPPORT WITH SHEETMETAL STRAPS FROM STRUCTURE. CRADLE ELBOW WITH STRAP. SECURE STRAP TO BACKING PLATE.
- ⑥ CONSTRUCT SOUND ELBOW OF 1" THICK FIBERGLASS DUCT BOARD. USE UL181 CLASS 1 RIGID AIR DUCT BOARD COMPOSED OF RESIN BONDED GLASS FIBERS WITH A REINFORCED FOIL LAMINATE AIR BARRIER/VAPOR RETARDER AND A BLACK MAT FACING APPLIED TO THE AIR STREAM SIDE. ELBOW SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH NAIMA AND SMACNA FIBROUS GLASS DUCT CONSTRUCTION STANDARDS. ALL STAPLE FLAPS SHALL BE STAPLED WITH 1/2" GALVANIZED STEEL, OUTWARD CLINCHING STAPLES EVERY 2". USE 2 1/2" MINIMUM WIDE PRESSURE SENSITIVE TAPE LISTED AND IMPRINTED WITH DESIGNATION "181A-P". CENTER TAPE OVER SEAM AND APPLY TO ALL LONGITUDINAL JOINTS. WHEN STAPLE FLAPS ARE NOT PROVIDED AT JOINTS THEN 8" LENGTH TAPE CROSS TABS SHALL BE INSTALLED AT 12" MAXIMUM SPACING.
- ⑦ ASSEMBLY OF CONERS WITH TWO SQUARE CUT BUTT EDGES IS NOT PERMITTED, FEMALE SHIPLAP WITH FLAP, SQUARE CUT WITH FLAP, OR V GROOVE CORNER FOLD ARE PERMITTED.
- ⑧ SEAL INLET AND OUTLET LEADING EDGES WITH MASTIC.