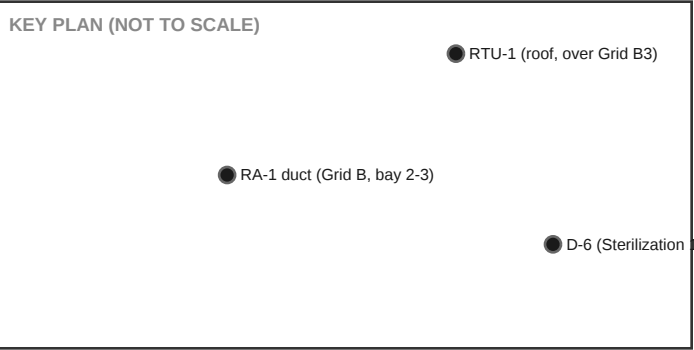


M-101 — MECHANICAL (HVAC) PLAN

Brightline MEP Consultants — Ductwork, Diffusers & Rooftop Equipment



MECHANICAL NOTES

- RTU-1 is a 5-ton packaged rooftop unit located over Grid B3, with an operating weight of 3,200 lb including curb and rigging. This weight should be checked against the structural engineer's roof beam design at this location (see S-101, beam BM-7) before the unit is ordered or set -- BM-7 is currently designed for a 2,000 lb concentrated point load at this location, which is less than RTU-1's stated operating weight.
- RA-1 is a 24"x14" return air duct routed along Grid Line B between Grid 2 and Grid 3, with a bottom-of-duct elevation of +9'-2" AFF. This routing crosses the same bay as structural beam BM-4, whose bottom-of-steel elevation is noted on S-101 as +9'-0" AFF. Because RA-1's bottom-of-duct elevation (9'-2") is above BM-4's bottom-of-steel elevation (9'-0"), the duct as drawn does not clear the beam -- coordinate a revised duct routing or elevation with the structural engineer before installation.
- Supply and return diffusers are provided in each operatory, the waiting area, and break room per typical layout. Diffuser D-6, serving Sterilization 110, is located at the same ceiling grid cell as sprinkler head SP-14 shown on the fire protection plan (FP-101). Coordinate with the fire protection engineer to relocate one of these two devices before the ceiling grid is installed, so that neither obstructs the other's required coverage.
- All ductwork is 24 ga. galvanized steel per SMACNA standards unless noted otherwise.
- Verify roof structure capacity with the structural engineer prior to setting any rooftop equipment; see the RTU-1 note above.
- Coordinate all duct routing crossing structural beam lines with the structural engineer's bottom-of-steel elevations shown on S-101; see the RA-1 note above.
- Coordinate ceiling-mounted device locations with the fire protection engineer prior to ceiling grid installation; see the D-6 note above.

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