60" HALF BLOCK MASS EXTENDER & GRAVEL INFILL

**Concrete Block Data**
- Design Unit Weight \( (\gamma_c) \) = 142 pcf
- Volume \( (V_c) \) = 11.70 cft
- Block Weight \( (W_c) \) = 1,661 lbs
- Center of Gravity \( (COG_c) \) = 32.60" (SEE NOTES)

**Gravel Infill Data**
- Design Unit Weight \( (\gamma_g) \) = 110 pcf
- Volume \( (V_g) \) = 8.30 cft
- Gravel Infill Weight \( (W_g) \) = 913 lbs
- Center of Gravity \( (COG_g) \) = 30.45" (SEE NOTES)

**Combined Unit Data**
- Design Unit Weight \( (\gamma_t) \) = \((1,661 \text{ lbs} + 913 \text{ lbs}) \div 20 \text{ cft} = 129 \text{ pcf}\)
- Volume \( (V_t) \) = 11.70 cft + 8.30 cft = 20.00 cft
- Total Unit Weight \( (W_t) \) = 2,574 lbs
- Center of Gravity \( (COG_t) \) = 26.54" (SEE NOTES)

**Notes:**
- VOLUME, WEIGHT AND COG CALCULATIONS WERE DONE USING CAD SOFTWARE.
- COG MEASUREMENTS ARE FROM BACK OF BLOCK.