

# ROTH RMT BUOYANCY RESTRAINING COLLAR-HIGH GROUNDWATER CONDITIONS

## GENERAL NOTE:

1) THE BUOYANCY RESTRAINING COLLAR DESIGN IS BASED ON BUOYANCY FORCE CALCULATIONS AVAILABLE ON REQUEST FROM ROTH GLOBAL PLASTICS, INC. ALL FINAL DESIGN PARAMETERS ARE THE RESPONSIBILITY OF THE SYSTEM DESIGNER/INSTALLER.

## CONCRETE NOTES:

- 1) PROVIDE CONCRETE TO OBTAIN THE MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS
- 2) CONCRETE MATERIALS AND WORKMANSHIP SHALL BE IN ACORDANCE WITH ACI-318-99 (BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE) AND ACI-301-LATEST EDITION (SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS)

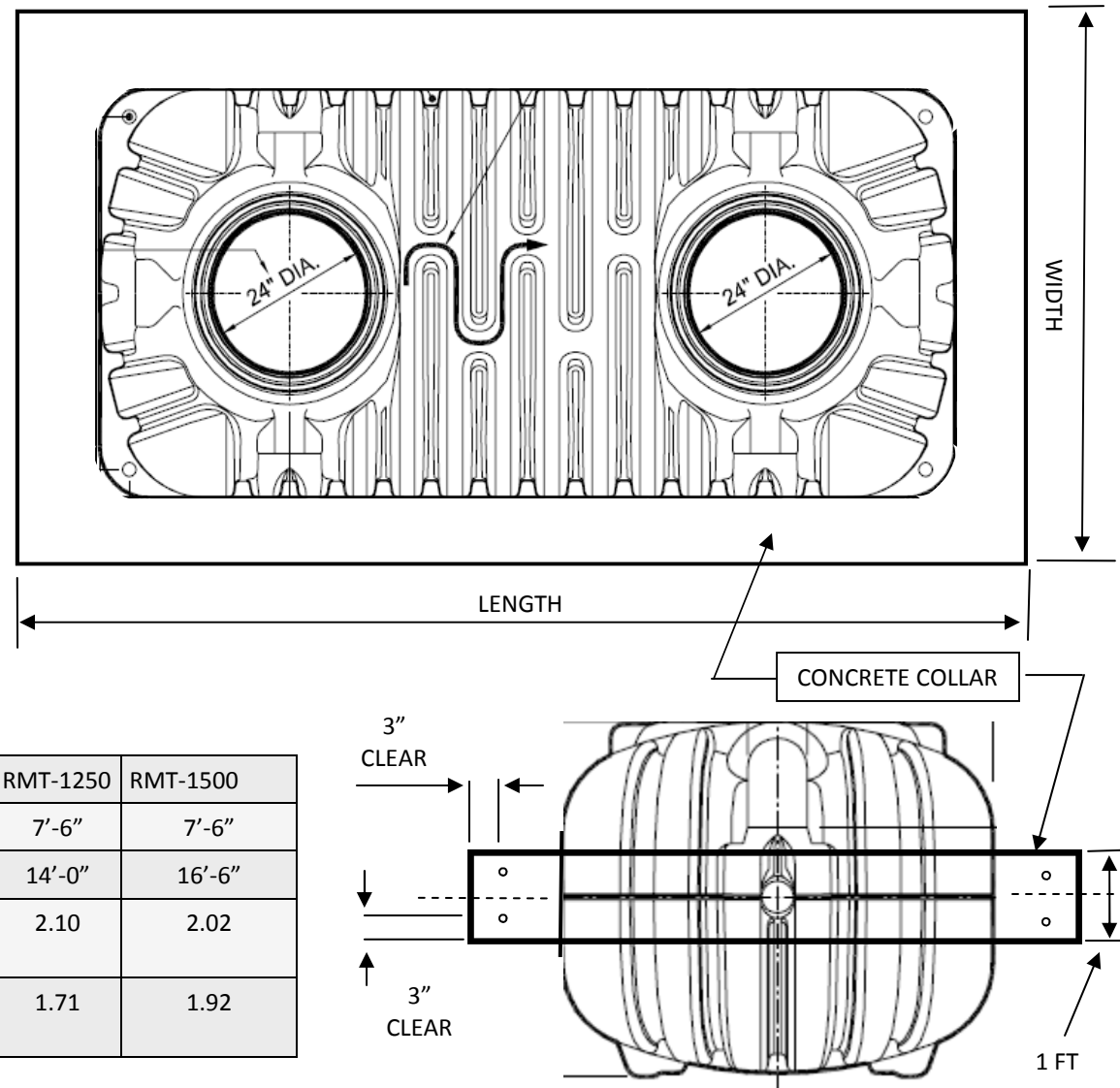
## REINFORCING STEEL:

- 1) ALL STEEL SHALL BE BILLET STEEL CONFORMING TO STANDARDS OF ASTM A615, GRADE 60

## CONCRETE COLLAR SPECIFICATIONS

TANK MODEL	RMT-500	RMT-750	RMT-1000E	RMT-1060	RMT-1250	RMT-1500
WIDTH (FT)	7'-0"	7'-0"	7'-6"	7'-6"	7'-6"	7'-6"
LENGTH (FT)	7'-0"	10'-6"	11'-6"	12'-0"	14'-0"	16'-6"
*NOMINAL SAFETY FACTOR	2.90	2.10	2.04	2.09	2.10	2.02
EST CONCRETE VOLUME	0.90	1.17	1.26	1.61	1.71	1.92

\*based on installation with one foot of cover fill, density 115#/Ft<sup>3</sup>



DWG SCALE: 1:1

PLOT SCALE: 1:2

SHEET NO. 1 OF 1

**ROTH RMT**  
**TANK BUOYANCY RESTRAINING SYSTEM**



**Roth Global Plastics, Inc.**  
One General Motors Drive  
Syracuse, NY 13206  
www.roth-usa.com