



GRADE STAKE: SHALL BE SET AT THE MANHOLES AND 25' INTERVALS THEREAFTER, EXCEPT WHERE A LASER BEAM IS USED. FOR LASER BEAM CONSTRUCTION, A GRADE STAKE SHALL BE SET AT THE MANHOLE AND 50' INTERVALS THEREAFTER.

BATTER BOARD: SHALL BE A STRAIGHT WOOD BOARD, A MINIMUM OF 2" X 6", AND SHALL BE CLAMPED LEVEL, WITH THE TOP AT THE PROPER GRADE OFFSET, TO EITHER METAL OR WOOD UPRIGHTS WHICH ARE DRIVEN SECURELY INTO THE GROUND. BATTER BOARDS SHALL BE AT 25' INTERVALS WITH A MINIMUM OF 3 BEING SET UP AT ALL TIMES. BATTER BOARDS SHALL BE SET PERPENDICULAR TO THE CENTER LINE OF THE PIPE AT EACH GRADE STAKE. BATTER BOARDS SHALL SPAN THE TRENCH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. A GRADE STRING SHALL BE STRETCHED BETWEEN THE 3 BATTER BOARDS, OVER THE CENTER LINE OF THE PIPE, TO CHECK LINE AND GRADE. FOR LASER BEAM CONSTRUCTION, A BATTER BOARD SHALL BE SET EVERY 50' TO CHECK LINE AND GRADE.

GRADE POLE: SHALL BE A STRAIGHT POLE WITH ROUNDED EDGES, APPROXIMATELY 2" X 2", WITH LENGTH DEPENDING ON NEED. THE GRADE POLE SHALL BE EQUIPPED WITH A METAL BRACKET ON THE BOTTOM WITH PROJECTING LENGTH OF 12"±. NAILS SHALL BE PLACED INTO THE GRADE POLE FOR DEPTH OF THE FLOW LINE BELOW THE GRADE STRING AND FOR THE DEPTH OF TRENCH. SPIRIT LEVELS SHALL BE USED ON THE GRADE POLE TO DETERMINE WHEN THE GRADE POLE IS VERTICAL.

NOTE: INSPECTOR'S COPY OF "CUT SHEET" SHALL BE ON PROJECT BEFORE PIPE IS LAID.

FOR TRENCH DETAILS AND BEDDING
 SEE ACCESSION NO. 49032 THE
 METROPOLITAN SEWER DISTRICT
 OF
 GREATER CINCINNATI
**STANDARD
 BATTER BOARD**

NO SCALE DATE: AUG., 2006
 APPROVED:  SEWERS CHIEF ENGINEER

ACC. NO. 49054

T.R.S.

LAYING PIPE