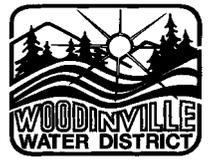


MANHOLE STEP

HAND HOLD DETAIL

NOTES:

1. POLYPROPYLENE TO CONFORM WITH ASTM-4101. STEPS SHALL MEET THE REQUIREMENTS OF ASTM C-478 AND AASHTO M-199. STEPS SHALL HAVE 1/2" GRADE 60 DEFORMED REINFORCING BAR THAT MEETS ASTM A-615. LADDERS TO MEET ASTM C-497 LOAD REQUIREMENTS. HANGING LADDERS SHALL USE 9/16" COLD DRAWN BAR PER C-1018.
2. HANDHOLD OR RECESSED STEP TO BE USED AT TOP OF CONE. LADDER RUNGS AND HANDHOLD STEP SIDES SHALL BE IN A STRAIGHT VERTICAL LINE. SEE STANDARD PLAN 2.
3. POSITION LADDER PER STANDARD PLAN 19.
4. MAXIMUM HEIGHT FOR HANGING LADDER IS 4'.
5. MAXIMUM ALLOWABLE DISTANCE FROM TOP OF CASTING TO TOP OF CONE STEP IS 22". ADD HANDHOLD @ 12" O.C. IF GREATER THAN 22".
6. PROVIDE MOUNTING BRACKET AT BASE IF THE LADDER IS NOT EMBEDDED IN THE BENCH.



Woodinville
Water District

STEP AND LADDER
DETAILS



SEWER STD.
PLAN NO. 18

REVISION DATE
04/25