NOTES:

1. **IF P.P. BASE LINER IS UTILIZED, A MINIMUM SLOPE OF 0.06' IS ACCEPTABLE ACROSS THE INVERT CHANNEL.** THE F.R.P. BASE LINER SHALL REQUIRE THE DISTRICT STANDARD MINIMUM SLOPE OF 0.1' ACROSS THE INVERT CHANNEL.

2. **MARKER POSTS MAY BE REQUIRED IN EASEMENTS.**

3. THE MANHOLE BASELINER SHALL BE A FIBERGLASS REINFORCED PLASTIC (F.R.P.) AND/OR POLYPROPYLENE (P.P.) BASELINER SYSTEM PER THE ENGINEERING SPECIFICATIONS.

4. **FOR MANHOLES LESS THAN 5' IN DEPTH, SEE SEWER STANDARD DETAIL #3, SHALLOW MANHOLE.**

5. **ALL PICK HOLES SHALL BE GROUTED ON THE INSIDE AND OUTSIDE OF MANHOLE.**

6. **MANHOLE UD SHALL BE POSITIONED SO THAT AT FULL-OPEN, THE UD IS PARALLEL TO EDGE LINE.**

PRECAST MANHOLE W/ BASE LINER

NOT TO SCALE

NORTHSIDE UTILITY DISTRICT

2019 STANDARD SEWER DETAILS