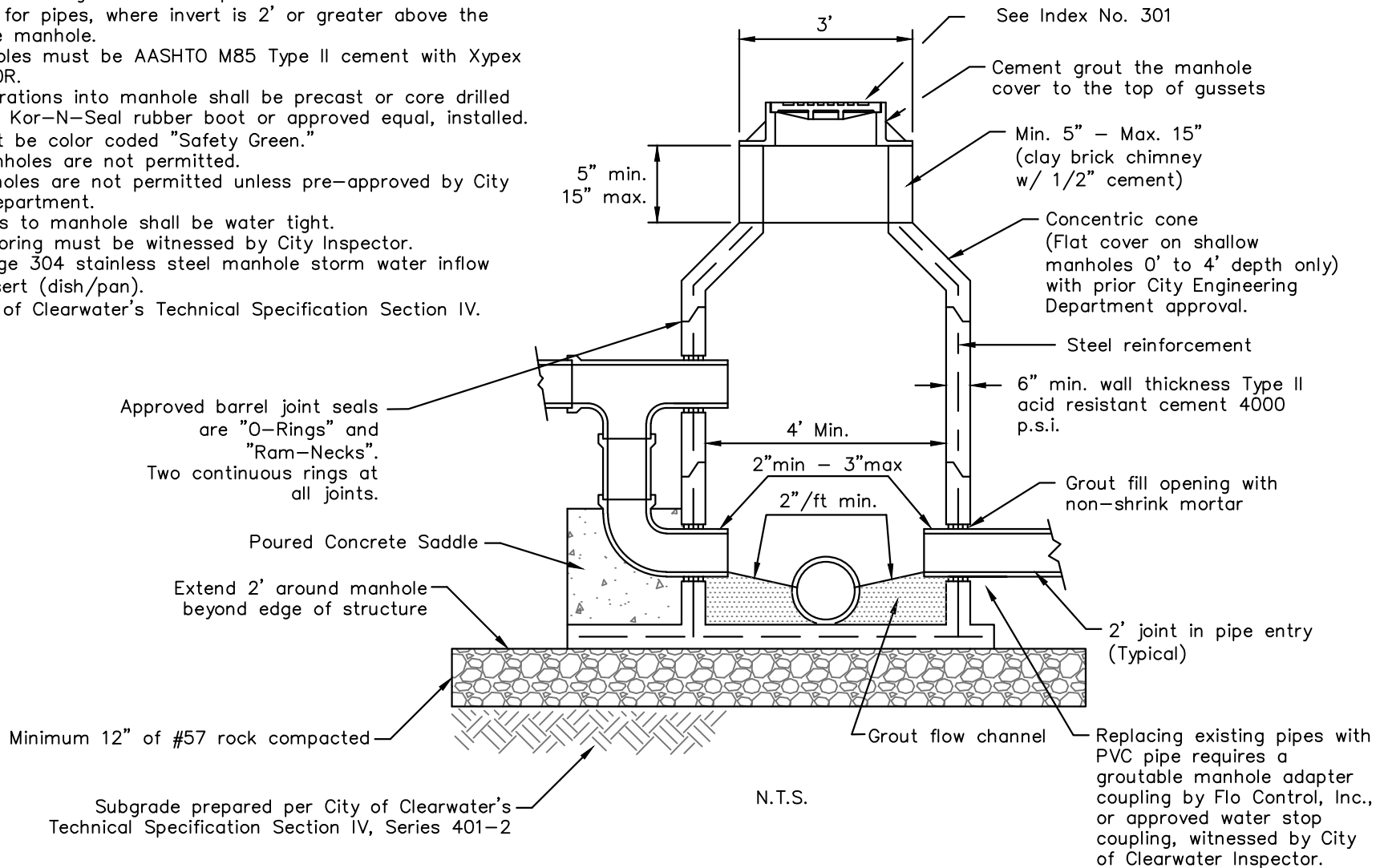


NOTES:

1. Precast manhole drop may be approved by City of Clearwater Engineer. Shop drawing submittal required.
2. Drop required for pipes, where invert is 2' or greater above the bottom of the manhole.
3. All new manholes must be AASHTO M85 Type II cement with Xypex Adminx C-100R.
4. All pipe penetrations into manhole shall be precast or core drilled with a flexible Kor-N-Seal rubber boot or approved equal, installed.
5. All pipes must be color coded "Safety Green."
6. Doghouse manholes are not permitted.
7. Flat top manholes are not permitted unless pre-approved by City Engineering Department.
8. All connections to manhole shall be water tight.
9. All manhole coring must be witnessed by City Inspector.
10. Install 18 gauge 304 stainless steel manhole storm water inflow abatement insert (dish/pan).
11. See also City of Clearwater's Technical Specification Section IV.



DATE	REVISION DESCRIPTION	APP

**CITY OF CLEARWATER**  
ENGINEERING DEPARTMENT  
**SANITARY SEWER  
DETAILS**

**NEW PRECAST SANITARY MANHOLE DETAIL  
OUTSIDE DROP**

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