

## SEWER MONITORING MANHOLE

### LOCATION

1. CONTACT THE PUBLIC WORKS AGENCY/UTILITIES DEPARTMENT PRIOR TO CONSTRUCTION FOR APPROVAL OF MONITORING MANHOLE LOCATION. CONFIRM THAT STANDARD DRAWING CONTAINS LATEST REVISION.
2. MONITORING MANHOLES ARE TO BE LOCATED AWAY FROM TRAFFIC, IF POSSIBLE. HOWEVER, IF INSTALLED IN TRAFFIC, THE MONITORING MANHOLE MUST BE CAPABLE OF CARRYING H-20 LOADINGS.
3. MONITORING MANHOLES MUST BE LOCATED ON LINES WHICH REFLECT TOTAL NONDOMESTIC FLOWS.

### GENERAL PROVISIONS

1. A UNIFORM PIPE SLOPE, NOT EXCEEDING 2.0% OR LESS THAN 0.40%, MUST BE MAINTAINED AT LEAST TWENTY (20) PIPE DIAMETERS UPSTREAM AND DOWNSTREAM OF THE MONITORING MANHOLE AS WELL AS THROUGH THE MANHOLE. DEVIATIONS FROM THE PIPE SLOPE LIMITS WILL REQUIRE SPECIAL PERMISSION FROM THE CITY ENGINEER.
2. THERE SHALL BE NO BENDS, DROP MANHOLES, FLOW JUNCTIONS, ETC. WITHIN 20 PIPE DIAMETERS (D) UPSTREAM OF THE MONITORING MANHOLE.
3. THE BASE OF THE MANHOLE MUST BE POURED AROUND THE EXISTING SEWER LINE WITHOUT ANY CHANGES IN THE SLOPE OF THE LINE.
4. WELD THE PERCENTAGE OF SLOPE AND PIPE DIAMETER OF THE SEWER LINE BEING MONITORED (%S,D") ON THE LID/COVER.
5. THE MAXIMUM UPSTREAM DEPTH SHALL NOT EXCEED 0.90D (D = PIPE DIAMETER IN INCHES).
6. WEIRS OR FLUMES ARE OPTIONAL AND MAY BE INSTALLED IF DESIRED. ALL INSTALLATION MUST BE ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS AND APPROVED BY THE CITY ENGINEERING DEPARTMENT.
7. ALL SURFACE WATER SHALL DRAIN AWAY FROM THE MONITORING MANHOLE.
8. ELECTRICAL CONDUIT IS OPTIONAL AT THIS TIME BUT MAY BE DESIRED IF PERMANENT MONITORING DEVICES ARE DESIRED OR REQUIRED IN THE FUTURE.
9. ANY MONITORING INSTRUMENTATION DEVICES MUST BE APPROVED BY THE PUBLIC WORKS AGENCY/UTILITIES DEPARTMENT PRIOR TO AND AFTER INSTALLATION. MANUFACTURER OF THESE DEVICES WILL HAVE TO BE RECALIBRATED EVERY SIX (6) MONTHS BY EITHER THE MANUFACTURER OR AN APPROVED TESTING LABORATORY. A COPY OF THE CALIBRATION CERTIFICATE SHALL BE FURNISHED TO THE CITY ENGINEER.
10. ALL MONITORING MANHOLE LOCATIONS MUST BE APPROVED BY THE PUBLIC WORKS AGENCY/UTILITIES DEPARTMENT PRIOR TO CONSTRUCTION AND INSTALLATION MUST BE APPROVED BY THE CITY ENGINEERING DEPARTMENT INSPECTOR.



APPROVED BY:		11-22-10		
<i>Louis Abi-Younes</i>		44485		
LOUIS ABI-YOUNES, CITY ENGINEER	RCE	DATE		
RECOMMENDED:		10/25/10		
<i>Scott Burton</i>		57875		
SCOTT BURTON, UTILITIES ENG/OPERATIONS DIRECTOR	RCE	DATE		
REV	DESCRIPTION	BY	APP'D	DATE

CITY OF ONTARIO

GENERAL  
REQUIREMENTS FOR  
MONITORING MANHOLE

STANDARD  
DRAWING  
NUMBER

**2201**