Municipality of North Huron

Development Standards





Standards are primarily needed to provide consistent, appropriate development of sites that are building services that will be municipally or privately owned.





Municipalities should have standards and apply them consistently.





Standards:

- Roads
- •Storm Sewers and Stormwater Management
- •Grading and Surface Drainage
- •Water distribution and service
- Sanitary Sewage collection
- •Sidewalks and Surface works
- •Utilities phone, hydro, gas, cable, etc.





Road Standards

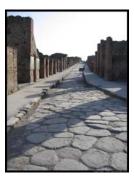
Throughout time road standards have adapted to the transportation methods of the day.



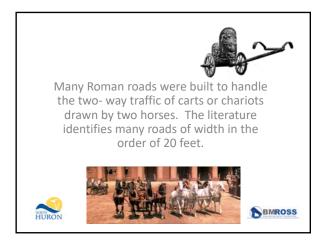
NORTH

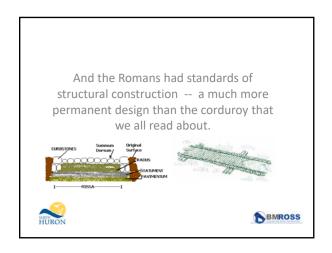
Since the time of the Romans, Roads have been built to recognize the importance of an efficient transportation system.

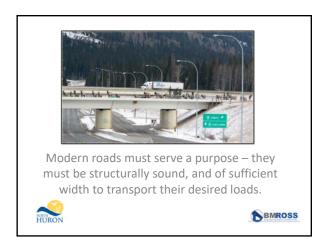




BMROSS













At that time the standards for new roads: (3)

- 1. Cottage roads <50 v.p.d
- 2. Suburban roads frontages > 100 ft.
 - 3. Urban roads frontages < 100 ft.

Until the roads subsidy disappeared, these standards had to be used by Ontario municipalities to maintain their subsidies.



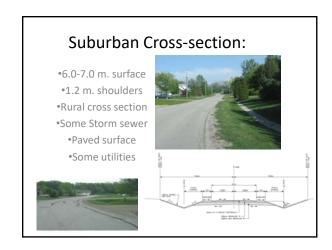


Since the early 1990's, municipalities have had much more freedom to establish standards. All of the municipalities we are associated with have established policies similar to the old MTO standards.

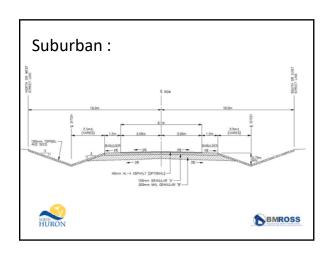




• 20 m. ROW • 5.5 m. surface • 1.0 m. shoulders • Rural cross-section • Gravel surface • No utilities

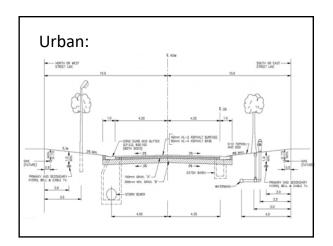












Neighbours?

- •All of the municipalities that we are working in are requiring an urban cross section in the urban settlements.
- •Huron-Kinloss, ACW and Kincardine require urban cross section for all new development, even that along the lakeshore.
- •Colborne and Huron Township have used modified urban standard for close to 30 years



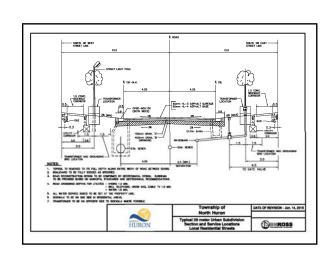


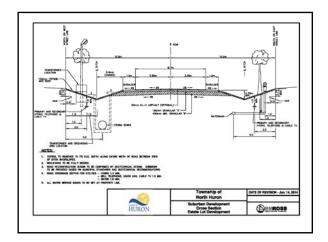
Conclusion: Our recommendation

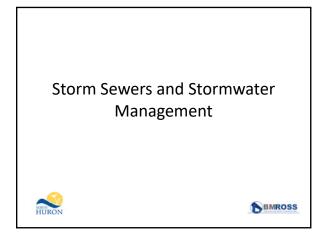
- •In all settlement or urban areas an Urban cross section.
- •For a truly rural, estate lot type development, consider a suburban cross section.











Storm Sewer Design:

Storm sewers are designed for what we call the Minor Storm – generally the 5-year storm.

Larger events should be handled with overland flow.



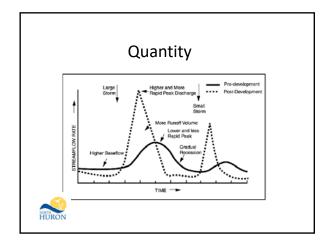


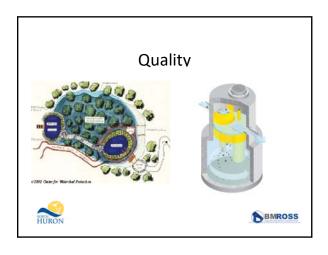
Stormwater Management

Looks at stormwater quantity and quality. Storm discharges are limited to peak flow rates which do not exceed pre-development peaks. The quality of stormwater is improved by providing opportunity for sedimentation.











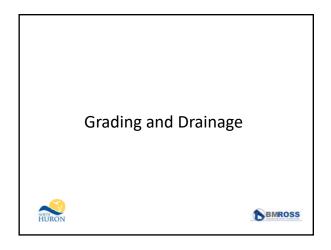
Low Impact Development (LIDS)

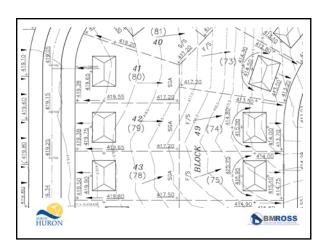
Both the MOECC and the Conservation Authorities are asking for some form of Low Impact Development be considered as part of new or redeveloped sites.

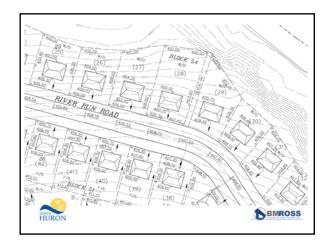
In the coming years, municipalities will be including provisions for this approach in their standards.

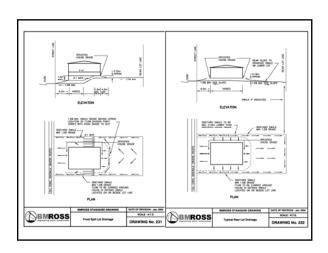






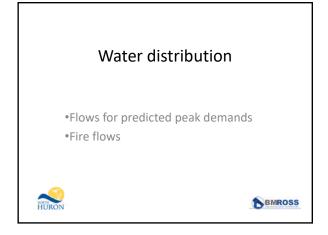


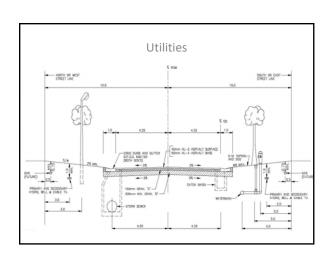




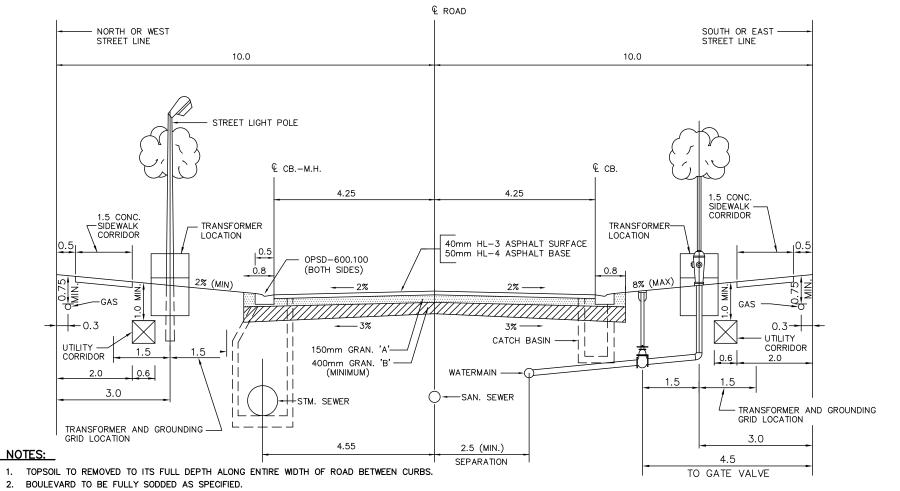
Sanitary Sewers and Watermains To MOE guidelines and OPSS and OPSD.



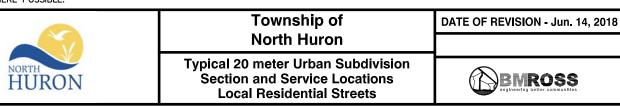


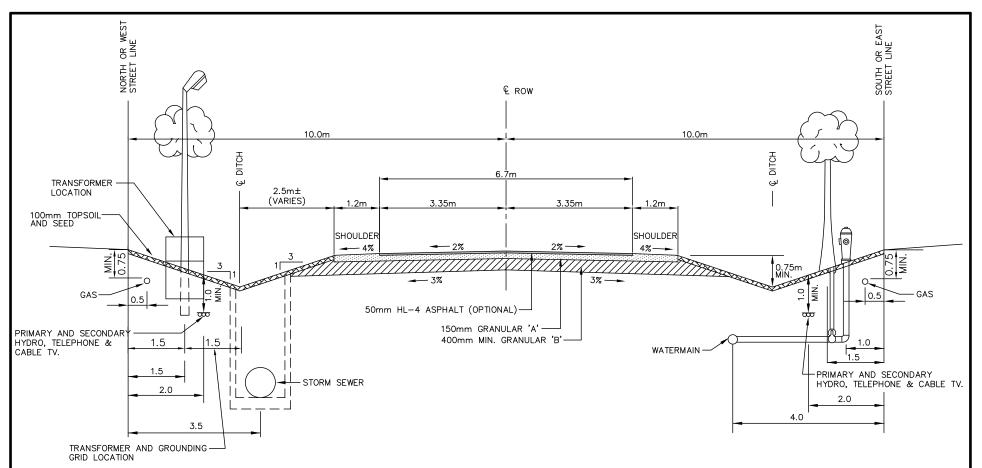






- ROAD RECONSTRUCTION DESIGN TO BE CONFIRMED BY GEOTECHNICAL DESIGN. SUBDRAIN TO BE PROVIDED BASED ON MUNICIPAL STANDARDS AND GEOTECHNICAL RECOMMENDATIONS.
- 4. ROAD CROSSINGS DEPTHS FOR UTILITIES HYDRO 1.2 MIN.
 - BELL TELEPHONE, UNION GAS, CABLE TV 1.0 MIN.
 - WATER 1.8 MIN.
- 5. ALL WATER SERVICE BOXES TO BE SET AT THE PROPERTY LINE.
- SIDEWALK TO BE ON ONE SIDE IN RESIDENTIAL AREAS.
- 7. TRANSFORMER TO BE ON OPPOSITE SIDE TO SIDEWALK WHERE POSSIBLE.





NOTES:

- TOPSOIL TO REMOVED TO ITS FULL DEPTH ALONG ENTIRE WIDTH OF ROAD BETWEEN TOPS OF DITCH BACKSLOPES.
- 2. BOULEVARD TO BE FULLY SEEDED.
- 3. ROAD RECONSTRUCTION DESIGN TO BE CONFIRMED BY GEOTECHNICAL DESIGN. SUBDRAIN TO BE PROVIDED BASED ON MUNICIPAL STANDARDS AND GEOTECHNICAL RECOMMENDATIONS.
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NORTH HURON	Township of North Huron	DATE OF REVISION - Jun. 14, 2014
	Suburban Development Cross Section Estate Lot Development	BIROSS engineering better communities