

TOWNSHIP OF SALFORD

COUNTY OF MONTGOMERY

COMMONWEALTH OF PENNSYLVANIA

ORDINANCE NO. 78

An ordinance requiring the owners of private driveways opening upon public roads in the Township of Salford to make certain drainage improvements; providing standards for such improvements; providing for notices; authorizing the Township to construct said drainage improvements upon failure of a property owner to do so; providing for the levying and collection of the cost thereof by lien or by action in assumpsit; and providing penalties for violation thereof.

The Board of Supervisors of the Township of Salford hereby enacts and ordains;

1. INTENT OF ORDINANCE. It is the purpose of this ordinance to prevent, and where existing, to alleviate blockages of or impediments to the flow of surface water along public roads due to the existence of private lanes or driveways opening onto such public roads. Further, this ordinance purposes to prevent surface water issuing from such private lanes and driveways from entering onto, or otherwise deleteriously affecting the integrity or safety of, such public roads.
2. CONSTRUCTION OF PRIVATE LANE OR DRIVE ENTRANCES. Every private lane or driveway constructed after the date of this ordinance, shall, at its intersection with a public road, have such drains, culverts, gutters, or other devices for the purpose of facilitating storm drainage as the Township, or its authorized agent, shall determine to be required.,
 - a. Where a driveway or private lane slopes downward toward its intersection with a public road, a structure shall be installed to intercept and collect the rainwater runoff from the driveway. In general, this structure shall be located at the point of intersection of the driveway, and the roadside drainage swale; however, where special circumstances SO dictate, the Township may require a different location.
 - b. Drainage interceptor structures shall be of the following three (3) types:
 - Type A - Concrete Trench Drain With Welded Steel Gate
 - Type B - Slotted Drain Pipe
 - Type C - Concrete Epoxy Prefabricated Drain TrenchType of structure to be used shall be according to Table #1 of Appendix. Construction details shall be as shown in Appendix.
 - c. Where driveways are level with road surface, or slope downward away from road, a standard culvert of corrugated steel pipe, reinforced concrete pipe, or- similar material approved by Township shall be used at roadway swale. Size shall be as required by Township to carry the flow in roadway swale, or such larger size as may be required by swale invert elevation.

- d. Where the Township determines that groundwater seepage from a property will cause moisture problems in the roadway base, sub-surface drains shall be installed. No additional measures are required if the driveway utilizes Type A or C interceptors. Where either a slotted drainpipe, or a standard drainage culvert is to be used, said pipe or culvert shall be perforated, and bedded in 6" Type 2a crushed aggregate. Where an existing, un-perforated culvert is presently installed, an aggregate trench drain may be installed on the property owner's side of the existing culvert, constructed as shown in Appendix.
- e. Minimum length for all driveway entrance culverts or other structures shall be twenty seven (27') feet.
- f. Township may, at its sole discretion, waive the requirement for Type A, B, or C structure, and allow the driveway to be constructed with a standard culvert as in subparagraph C, above, and a swale constructed across the driveway to intercept runoff. Such waiver shall only be allowed under the following conditions:
 - 1) Maximum slope of driveway is 5% for a distance of 50 feet from roadway swale.
 - 2) Applicant can demonstrate to Township's satisfaction that the cross-swale can be effectively constructed, and drained away from driveway in a manner which will not fill up and eliminate swale.
 - 3) Swale, when constructed, shall have sides with a maximum slope of 12.5%., and a minimum depth of 2 feet below the intersection of the drive with the roadway.
 - 4) Swale invert shall be minimum of 15 feet from roadway edge.

3 • NEW CONSTRUCTION

In the case of any new private lane, or driveway opening onto a Township road, the person constructing such driveway shall first obtain from the Township a Permit for Road Occupancy. This permit shall state the requirements to be met by the driveway at its intersection with the roadway, including but not limited to, location, type of drainage device(s) and time limits for the work to be completed.

- a. The obtaining of such permit, and the installation of the required drainage device(s), shall be a precondition to the issuance of a Zoning Permit for any new building or structure served by the new driveway.
- b. The Township may, at its sole discretion, waive this precondition so as to permit the installation of the drainage device(s) to be delayed until the possibility of damage by construction equipment is past. In such case, the applicant shall post with the Township financial security sufficient in the Township's opinion, to defray costs of construction if, applicant should fail to construct the required improvements. Such financial security shall be in the form of an Escrow Account, a Letter of Credit, or such other instrument as the Township shall find acceptable.

3.

4. REPAIR OR RECONSTRUCTION OF EXISTING LANES OR DRIVES. Every owner of a private driveway or lane opening upon the public roads of Salford Township shall, upon written notice from the Board of Supervisors, construct, install, alter or reconstruct such conduits, drains interceptors or gutters required to Correct the drainage problem referred to in the notice. Such repair or reconstruction shall include the installation of the above mentioned improvements, and/or the alteration of grades and lines of the drive or lane, and shall be done to the specifications of the Township or its authorized agent.
5. NOTICE: Written notice shall be given to all affected property owners to construct, reconstruct, or install drainage facilities under or around their private driveways. Service of notice shall be considered as made on the date when said written notice is either mailed to said owners, if they be known, or posted on the premises of said owners or published in a newspaper of general circulation in the Township. Said notice shall include a statement of the times and place at which said owner may obtain from the Township the specifications, line, and grade of the pipes, drains, and gutters required to be installed.
6. CONSTRUCTION BY TOWNSHIP. If any owner of a private lane or driveway shall fail to construct or to arrange with the Township to construct pipes, gutters, conduits, or drains within ninety (90) days of service of notice to do so, the Township of Salford may construct or cause the same to be constructed and charge the cost thereof to the owner of the lane or driveway, along with any additional penalty authorized by law.
7. COLLECTION OF COSTS. The cost of any such construction or installation done by the Township of Salford shall be a lien upon the premises from the time of the commencement of the work. Any such lien may be collected by an Action in Assumpsit or by lien filed in the manner provided by law for filing and collection of municipal claims.
8. VIOLATIONS AND PENALTIES. Any person who shall fail, neglect, or refuse or cause any person to fail, neglect, or refuse to comply with any of the terms or provisions of this Article shall, upon conviction thereof before any District Justice, be sentenced to pay costs and a fine not exceeding three hundred dollars (\$300.00) or to imprisonment in the county jail for a term not to exceed thirty (30) days for each offense, or to both such fine or imprisonment.
9. REPEALER. All ordinances or parts of ordinances inconsistent herewith are hereby repealed. Ordinance #59. enacted 9th day of June. 1977, is specifically repealed.

This ordinance, and attached 3 pages of Appendix. enacted and ordained this 27th day of February, 1986.

TOWNSHIP OF SALFORD

APPENDIX TO ORDINANCE

This Appendix provides construction and installation standards for the drainage and interceptor structures required by Ordinance #78.

FLOW IN SWALE

SLOPE OF DRIVE ³		<u>MINIMAL</u>		<u>MODERATE-HEAVY</u>	
		<u>>5%</u>	<u><5%</u>	<u>>5%.</u>	<u><5%.</u>
PAVING	PAVED	A	C	A	B
	UNPAVED	A	A ¹	A	A ²

TABLE #1 - TYPE OF STRUCTURE TO BE USED

Notes for Table #1:

1. Type C may be used up to a slope of 15% if 4' concrete paving 6" deep **or an equal width of bituminous concrete 6" deep*** is installed above the drain trench.

2. Type B may be used up to a slope of 15% if 4' concrete paving 6" deep **or an equal width of bituminous concrete 6" deep*** is installed above the drain slot.

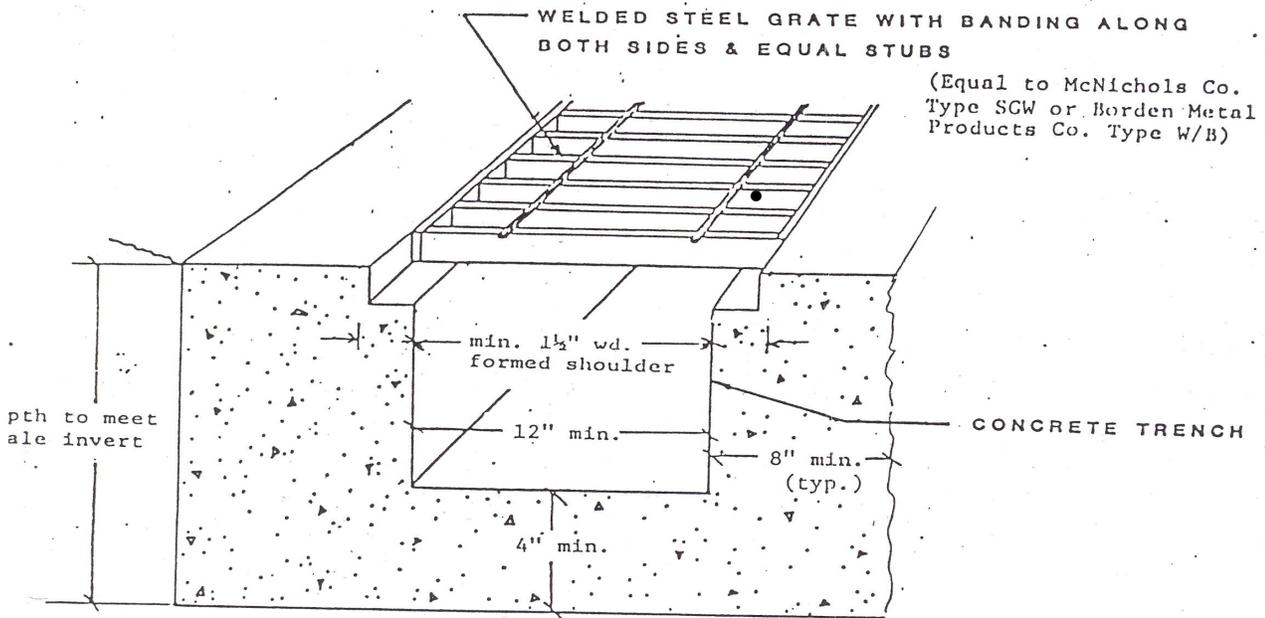
3. Driveway slope shall be greatest slope within 20' of intersection with roadside swale. (or within 20' of interceptor if not located at swale).

4. Size of Type A and n pipe or trench shall be adequate to carry flow in roadside swale, and to meet invert elevation of swale, as determined by Township.

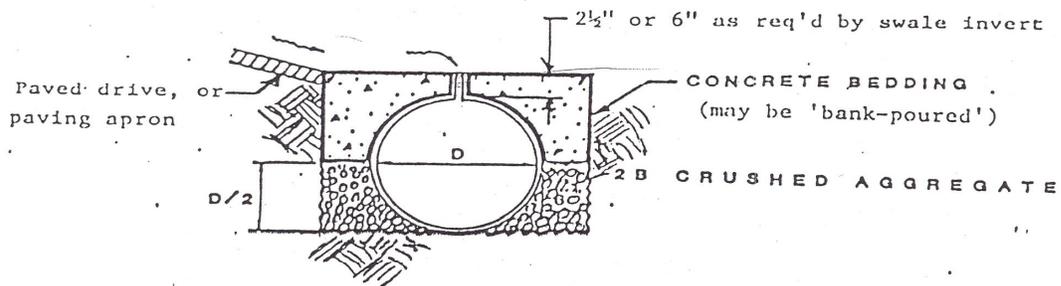
5. See paragraph 2f of Ordinance for the use of cross-swale on driveway in lieu of drainage structure.

6. **Type A device shall have a paved area of 4" concrete paving 6" deep, or an equal width of bituminous concrete 6" deep above the trench drain if the driveway slope within 30 feet of the interceptor exceeds a slope of 5%.***

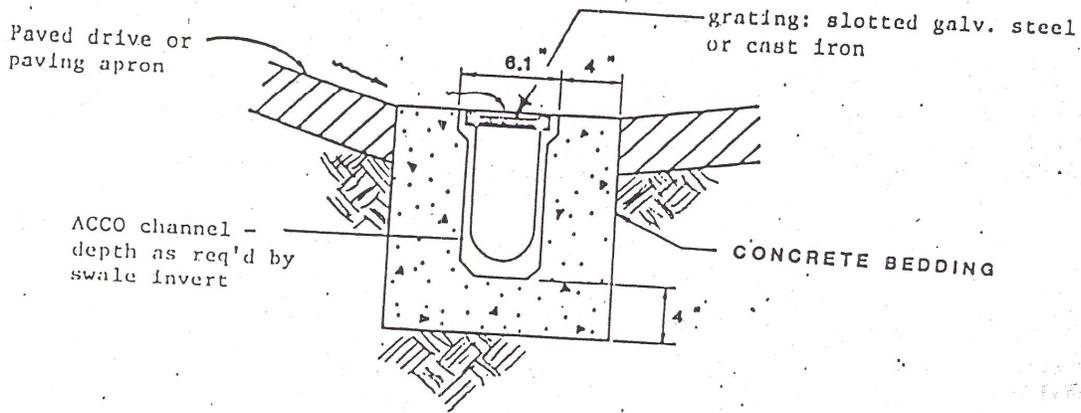
**amended by Ordinance #108 dated 31 Oct. 1996*



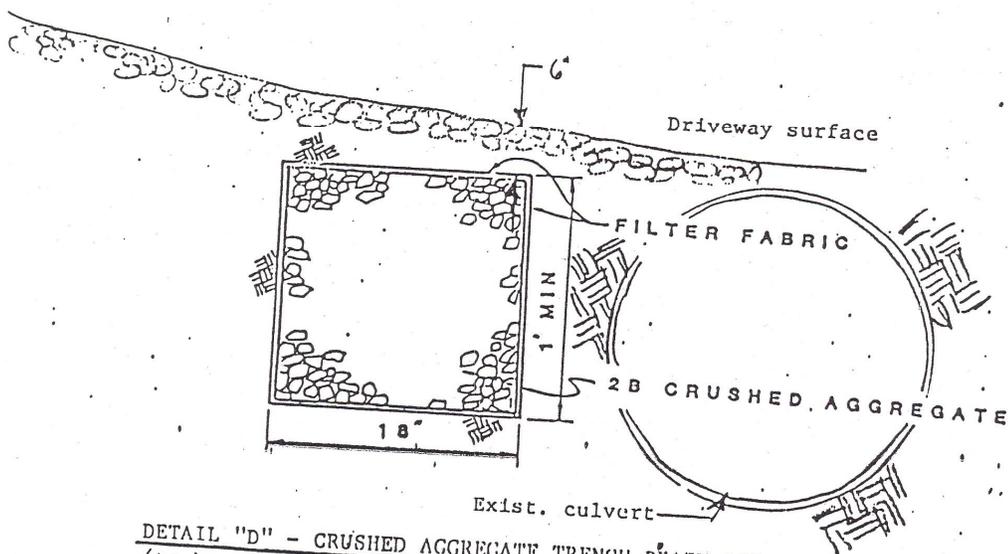
DETAIL "A" - CONCRETE TRENCH DETAIL (INTERCEPTOR TYPE 'A')



DETAIL "B" - ARMCO SLOTTED DRAIN DETAIL (INTERCEPTOR TYPE 'B')



DETAIL "C" - ACCO TRENCH DRAIN DETAIL (INTERCEPTOR TYPE 'C')



DETAIL "D" - CRUSHED AGGREGATE TRENCH DRAIN DETAIL
 (to be used to intercept groundwater seepage
 above an existing non-perforated culvert)