



Board of Supervisors

Story County, Iowa

Policy Name: ROAD CROSSING FOR MANURE APPLICATION USING HOSES OR PIPELINE

Approval Date: 06/27/2023	Effective Date: 07/01/2023	Revision No.: New
-------------------------------------	--------------------------------------	-----------------------------

Reference: BOS Minutes: 06/27/23 Initially Adopted: 06/27/23	Distribution: S Drive and Policy Book Board Member Initials: _____ Meeting Date: 6.27.23 Follow-up action: _____
--	--

The purpose of this policy is to provide a guideline for response to requests to cross Story County (County) roads with hoses or pipelines for application of liquid manure from livestock facilities.

This policy is intended only for hoses and pipelines directly across County roads. It is not to be interpreted to allow the placement of hoses or pipelines in County road right-of-way in lieu of easements on private property.

The Applicant must meet the following conditions:

1. Applicant shall complete a Story County Road Crossing for Manure Application Permit form and submit it to the Story County Engineer’s Office. Attachments to said Permit Application shall include a map showing the requested location and spill prevention and control plan. The spill prevention and control plan should specify which drainage facilities will be protected from a potential liquid manure spill and how they will be protected. If the Applicant plans to hire a contractor for the pumping operation, the contractor’s information shall be provided on the permit form.
2. The Story County Engineer (Engineer) will review the Permit Application and visit the proposed site to determine if existing drainage facilities may be utilized for the crossing. If existing drainage facilities are not appropriate for the crossing, the Engineer will then determine if a new road crossing is appropriate. If existing drainage facilities and a new road crossing are not appropriate, the Permit Application may be denied. If the Engineer determines that an existing drainage facility can be utilized for the crossing but a new crossing is a better option, the crossing shall be made through a new crossing.
3. New crossings shall be constructed with corrugated metal pipe or Schedule 40 PVC or better – Minimum 15” diameter.
4. Story County Secondary Roads Department (Secondary Roads) will furnish and install the culvert for a new crossing. Applicant shall reimburse Secondary Roads for all costs of the culvert and installation before any pumping will be allowed. Secondary Roads

also has the option to direct the Applicant to hire and pay for a qualified contractor to furnish and install the culvert according to the provisions in the crossing permit.

5. Secondary Roads will maintain the culvert for a new crossing. Applicant shall reimburse Secondary Roads for all costs of the maintenance.
6. Applicant is responsible for all costs in connection with any manure spills. **Applicant is responsible for notifying the county immediately if there are any spills or road damage.** All applicators must hold a current Iowa DNR certification.
7. Crossing of non-paved roads may be open cut, but crossing of paved roads shall be bored at the expense of the Applicant.
8. Notification shall be made to the Story County Engineer's Office not less than 48 hours prior to any time that Applicant plans to use County road right of way for manure pumping application. Applicant shall have a valid certificate of insurance in the amount of \$750,000 on file with the Story County Engineer's Office before manure application may be started.
9. Hoses will not be allowed to run parallel with the road in the road right-of-way, they must be placed out on private property. It is the responsibility of the Applicant to gain permission from private property owners to use their property.
10. Applicant shall remove hoses or pipelines from the crossing culvert and County road right-of-way within 8 hours following each use of the hose or pipeline for application. Pumping operations shall cease during rainfall and hoses will not be left in culverts during rainfall. Pumping shall only take place during daylight hours.
11. Laying a hose or pipeline across the top of the road will not be allowed at any time.
12. In all circumstances couplers must not be located within the road right-of-way and pumping equipment shall not be allowed in the right-of-way.
13. Applicant's failure to comply with any of the conditions above or their spill prevention and control plan will result in the revocation of their permit.
14. The above Policy will continue in effect until modified or revised by further Story County Board of Supervisors action.
15. Using any portion of the road right-of-way for pumping operations without a permit will be considered unauthorized use of the County secondary roadway right-of-way and will result in legal action by Story County. Legal action may result in civil penalties as specified in Chapter 33 of the Story County Code of Ordinances. In addition to the civil penalty, other remedies may include abatement/correction and assessment of costs.

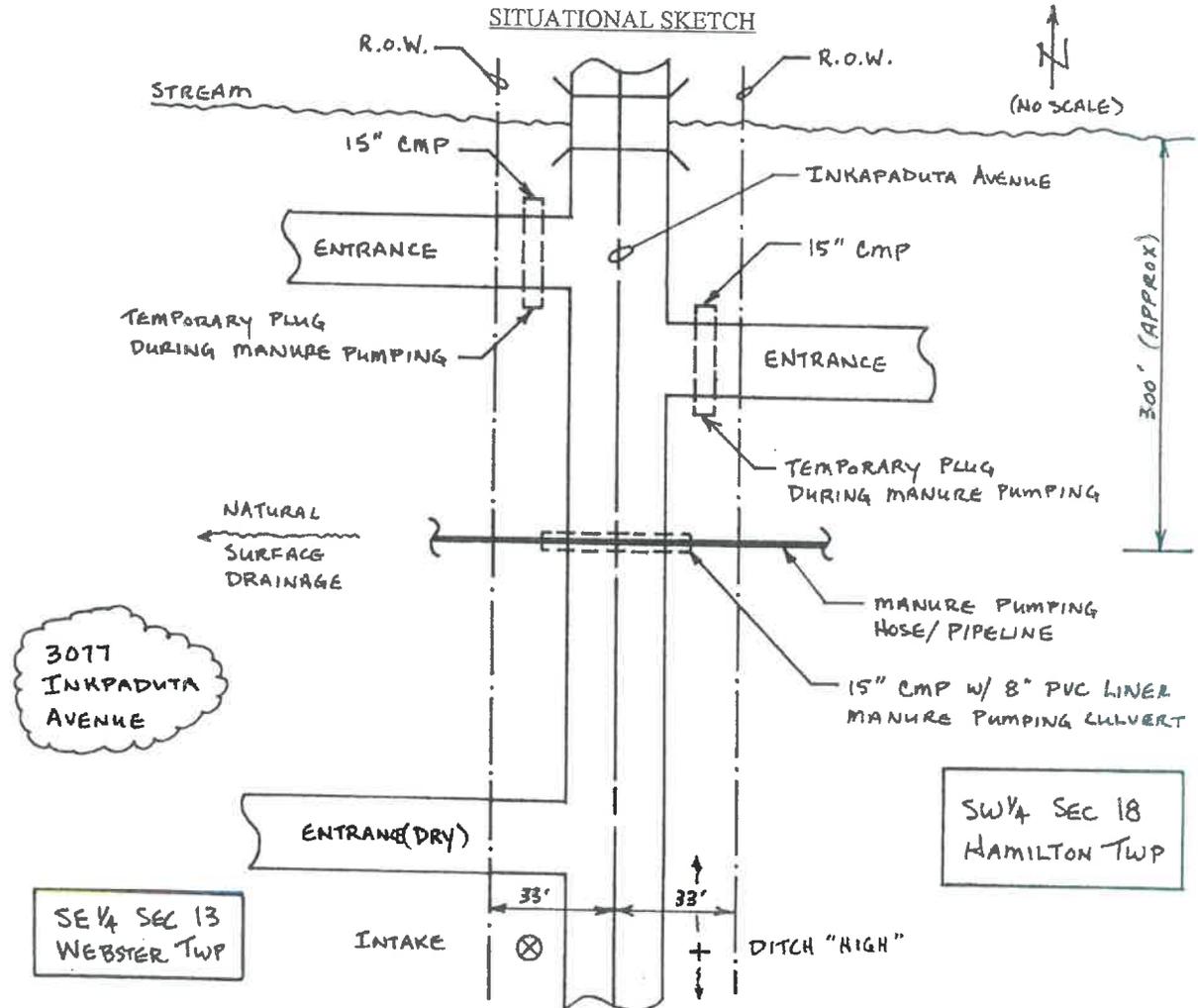
SAMPLE

MANURE SPILL PREVENTION AND CONTROL PLAN ROAD CROSSINGS FOR MANURE APPLICATIONS USING HOSES OR PIPELINES Location: 3077 Inkapaduta Avenue

Manure hoses and pipelines located within an area that could affect the road right-of-way will be inspected daily for excessive wear and possible leak sources. Possible leak sources shall be repaired immediately upon discovery and pumping shall cease until the repairs are made. When available, flow meters or pressure meters on the applicator will be utilized to monitor whether a leak or spill is occurring. The road right-of-way will be inspected for evidence of manure spills or leaks twice a day. An adequate supply of spill containment and remediation materials, such as sand bags, absorbents, etc., shall be readily available to this site.

A stream is located approximately 300' north of the manure pumping culvert. However, during manure pumping, it will be isolated from any potential manure leak or spill by temporarily plugging the south ends of the entrance culverts located north of the manure pumping culvert in both ditches – thus containing the leak or spill from spreading to the north. A potential manure leak or spill will also be contained from spreading south by a dry entrance in the west ditch and a ditch "high" in the east ditch. The ditch "high" in the east ditch is higher than the elevation of the top of the backslope at the west end of the manure culvert. Therefore, if a leak or spill occurred within the road right-of-way, it would be contained within the road right-of-way to the elevation of the top of the backslope at the west end of the manure culvert and any overflow over that point would flow to the west into a low area on private property at the 3077 Inkapaduta Avenue site. No intakes or drainage facilities on the road right-of-way will be compromised by a potential manure spill or leak at this site.

If a rain storm event occurs during manure pumping to the extent that surface runoff starts to pool behind the temporarily plugged entrance culverts, manure pumping shall cease and the temporary plugs shall be removed until the surface runoff is adequately drained, at which time the entrance culverts can be re-plugged and manure pumping may resume.



SAMPLE

MANURE SPILL PREVENTION AND CONTROL PLAN ROAD CROSSINGS FOR MANURE APPLICATIONS USING HOSES OR PIPELINES

Location: 2348 250th Street

Manure hoses and pipelines located within an area that could affect the road right-of-way will be inspected daily for excessive wear and possible leak sources. Possible leak sources shall be repaired immediately upon discovery and pumping shall cease until the repairs are made. When available, flow meters or pressure meters on the applicator will be utilized to monitor whether a leak or spill is occurring. The road right-of-way will be inspected for evidence of manure spills or leaks twice a day. An adequate supply of spill containment and remediation materials, such as sand bags, absorbents, etc., shall be readily available to this site.

This site is situated such that the area of the manure pumping culvert surface drains from the road right-of-way into the field to the south. The south ditch at the culvert is contained by dry field entrances on either side of the culvert. The north ditch at the culvert is contained by a dry field entrance on the east side of the culvert and a ditch "high" on the west side of the culvert. It appears that the elevation of the ditch "high" is higher than the top of the backslope at the south end of the culvert. Therefore, if a leak or spill occurred within the road right-of-way, it would be contained within the road right-of-way to the elevation of the top of the backslope at the south end of the culvert and any overflow over that point would flow to the south into a low area on private property. Although the intake located in the north ditch approximately 300' to the west of the manure pumping culvert is isolated from the manure pumping culvert by the ditch "high", it shall be temporarily plugged during manure pumping.

If a rain storm event should occur during manure pumping to the extent that surface runoff starts to pool behind the temporarily plugged intake, manure pumping shall cease and the temporary plug shall be removed until the surface runoff is adequately drained, at which time the intake can be re-plugged and manure pumping may resume.

SITUATIONAL SKETCH

