

JOHN D. MORGAN

CIVIL ENGINEER
ST. CLOUD, MINN.

St. Cloud Minn. September 10 th 1910.

- To the Board of County Commissioners,

Anoka, Minnesota.

Gentlemen:

In accordance with the request of Mr. L.L. Stewert, Contractor, that I inspect Ditch # 43 Anoka County Minn.

I have inspected same and find the open work from station 0 to station 0 +16' two (2) feet above grade, station 0 +16' to station 65 in good condition, station 66 to the tile, five tenths (5/10) to two (2) feet above grade according to plans and specifications.

The tile begins at a point about fifty (50) feet North East of station 90.

At about station 91, I found an impression in the ground above the tile line, at this point I uncovered the tile and found it to be vitrified sewer pipe known as Bell tile, these tile I found had not been forced together, the spigot end of one was an inch and a half from the shoulder in the bell of other, I also found the tile at this point completely filled with sand, which indicates that the impression in the ground directly above this tile was caused by the defective joint.

At station 97 there was no covering over the tile, or box, which is put in at this point, which box is completely filled with sand and the joints in same open two (2) inches with no protection over them.

Station about 100 I found an impression in the ground above the tile line, uncovering the tile at this point I found it to be four (4) inches out of place and wholly filled with sand, which indicates that the impression in the ground directly above this tile was caused by the defective joint.

The young man who was present while the examination was being made informed me that earlier in the summer the impression was much larger but he had partly filled it by plowing dirt into it.

I then went to station 114 +75' at which point I found no impression in the ground above the tile line, uncovering the tile at this point I found the digging very hard indicating that the covering over the tile at this point had never gone into the tile line, upon examining the tile I found it but very little out of place, I also found the joint at this point well protected by straw and tarpaper according to plans and specifications, the tile was almost free from sand and very dry.

This tile line at one time was carrying water from its source to its mouth but as soon as the country above became partly dried out and the tile no longer had a high water pressure at its head, by high water pressure at its head, I mean sufficient water pressure to carry the sand through the tile as it ran in at the defective joints. As soon as the water pressure was not sufficient to do this the tile became filled with sand at its defective joints and made useless as a drain.

No payment is recommended on any part of this ditch until the defective joints are repaired and water going through the tile line from its source to its mouth.

Resp. yours

*But E Morgan, asst. for A.E. Morgan
Civil Engineer.*

St. Paul, Minn., September 10, 1910.

To the Board of County Commissioners,

Anoka, Minnesota.

In accordance with the request of Mr. I. L. Stewart, Inspector,
that I inspect ditch # 23 A north County Road,
I have inspected same and find the open work from station 0 to
station 0+12, two (2) feet above grade; station 0+12 to station 25+00
good condition, station 25 to the tile line (see 2) feet
above grade according to plans and specifications.

At about station 91, I found an impression in the ground above the
tile line, at this point I uncovered the tile and found it to be vitrified
sewer pipe known as Roll tile, these tiles I found had not been forced together,
the upper end of one was an inch and half from the shoulder in the ball of
ditch, I also found the tile at this point completely filled with sand, which
indicates that the impression in the ground directly above this tile was
caused by the defective joint.

At station 97 there was no covering over the tile or box, which is out
at this point, which box is completely filled with sand and the joints
in same open two (2) inches with no protection over them.

Station about 100 I found an impression in the ground above the tile
line, uncovering the tile at this point it is to be four (4) inches
out of place and wholly filled with sand, this indicates that the impression
in the ground directly above this tile was caused by the defective joint.
The young man who was present at this examination was being asked
informed me that earlier in the summer the impression was much larger but
he had partly filled it by plowing and into it.

I then went to station 114+78, at which point I found no impression
in the ground above the tile line, uncovering the tile at this point I
found it to be four (4) inches out of place and wholly filled with sand,
this point had never gone into the tile line, upon examining the tile
found it was very little out of place, I also found the joint at this point
well protected by straw and lagging according to plans
and specifications, the tile was almost free from sand and very dry.

This tile line at one time was carrying water from the south
side of the ditch as the country above became partly diked off, and the tile
was not able to carry the water pressure at the head of the ditch, the tile
was not able to carry the water pressure to carry the water through the tile
and the defective joint. As soon as the water pressure was so great that
it was not able to carry the water through the tile and the defective joint and
it was not able to carry the water through the tile and the defective joint.

I am, Sir, very respectfully,
Your obedient servant,
J. H. Stewart

Filed this
September 10 1910
J. H. Stewart
Inspector

Handwritten notes and signatures at the bottom of the page.