



SCHOOL DISTRICT OF TURTLE LAKE

*"To foster a culture of excellence where every person
belongs, learns and succeeds."*

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Track Issue: The subsoil is holding moisture and we need to ensure a solid base to lay the blacktop. They have removed one foot of material.

Solutions:

Cooper Engineering initial response

- Farm / Aeration the existing soils. About 1' deep. Once dry, compact and resume work.
- This solution is per the existing project requirements and should not have cost.
- This solution is not completely realistic. You could work this solution all summer long and not make progress. As soon as it rains we are back to square one.

Current EBS solution per Contract - This is what was in Cooper's spec

- Remove poor soils and replace with Engineered fill.
- The spec provided is a sand product as the engineered fill.
- The price collected at time of bid was \$48/ CY
- Cooper has advised that this product would be inappropriate for this job site as the clay void filled with sand would create a bath tub.

AET / 3rd party tester

- Remove 3' of existing soils and replace with Ballast / Breaker run
- Remove area of Pete at SW corner
- AET Admits this is overkill but this is their position.
- Solution not priced

Solution 1: (Pending Cooper buy in)

- Remove an additional 1' of existing soils
- Replace with Clean Breaker rock
- Cover with fabric
- Resume with Open base per original plan on top of the fabric
- Unresolved issue with this solution is the under drain would need to be dropped an additional foot. Which our low point is already at zero.
- \$130K ball park

Solution #2 (Pending Cooper buy in)

- Remove an additional 1' of existing soils
- Replace with Breaker Run (Has fines in it)
- Cover with fabric
- Resume with Open base per original plan on top of the fabric
- The fines in the breaker run may create a "seal" to shed the water toward the drain allowing us to install the under drain at the original elevation.

- \$120K ball park (Breaker run is a bit cheaper than clean Breaker rock)

Again Solution #1 and #2 has not been approved by Cooper yet. I have a call and email into them. Last week they were very reluctant to get behind anything other than the drying effort.

Dollar values noted above ball park because we are estimating 48,000 SF is involved. We have a question into Cooper asking them to validate the estimate. This is easy for them to as their design software has this capability.