

TECHNICAL MEMORANDUM

To: Frank Louis - AECOM

From: Arun Tailor; Drew Ptak - GSI

Re: (1) Specification 31 23 23.01 Fill:
(2) Specification 31 23 17 – EXCAVATION, BACKFILLING AND COMPACTING FOR UTILITIES

GSI Project Number: 19059

Date: November 03, 2020

Revised Date: November 12, 2020

As stated in email dated 11/01/2020, Geo Service was requested to review the specification of fill proposed for use as backfill. Based on onsite material obtained during potholing investigation at TP-6 (3.0'-6.0") and TP-8 (1.5'-10.'), we have performed modified proctor as per ASTM D1557 for the material. By Inspection, reviewing the material properties and laboratory testing of the onsite non-cohesive material generally classified as medium dense to loose, poorly graded sand/silty sand with varying gravel contents. It appears that the majority of the onsite fill is classified as SP soils and should be satisfactory for use as a general fill as defined in the specification provided to us review and compacted to required design specification.

- Depending on proposed new pavement grades, the existing fill layer can be considered to remain in place if stable for proof-roll inspection of subgrade. The existing fill is considered to be suitable for support of pavements and floor slabs will also require capped with minimum of 2.0 ft. of CA-06 under the floor slab and with minimum of 10 inch layer of CA-06 under the parking lot pavement area, placed in layer and compacted to 95% of Modified Proctor value.
- Existing fill material is not considered suitable for supporting the foundation loads using conventional shallow depth wall and column footings and select fill as defined in specifications should be used.
- If excavated material intended for fill and backfill later will need properly managing the stockpile by removing the unsatisfactory soil/rocks.

Note: Please noted due to the variability of material, care will need to be taken in the placement, compaction and testing of the onsite material.

If you have any questions regarding the above information, please do not hesitate to contact us.