


Case study: A parking lot with traditional asphalt, porous asphalt, trees, and CU Soil after 13 years of limited maintenance.



Investigating **CU-Structural Soil**

You're Invited!

Healthy roots and paved surfaces can co-exist! Join WSSI and The Davey Institute to learn how CU-Structural Soil® can benefit the urban environment.

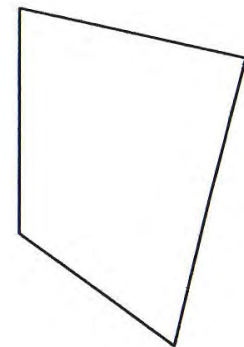
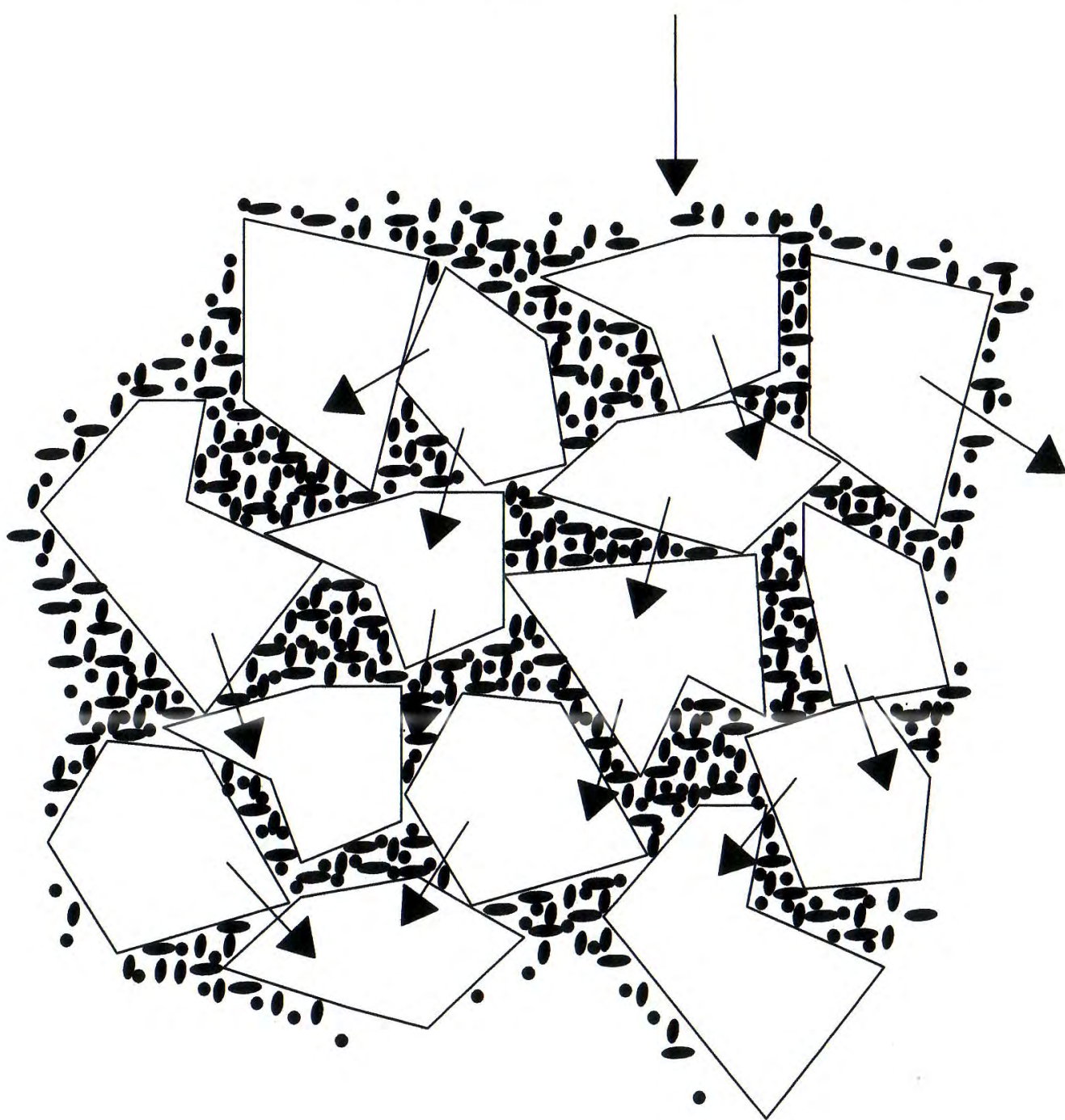
In-Person Seminar and Live Webinar

November 1, 2018

1:00 pm - 4:00 pm

Solution to the Stormwater Problem: Structural Soil Combined with Porous Asphalt

- **Allows water to filter through pavement, slowly recharging groundwater and reducing the need for retention/detention ponds and bioswales.**
- **Allows trees to grow in paved sites.**



Stone particle



Soil particle



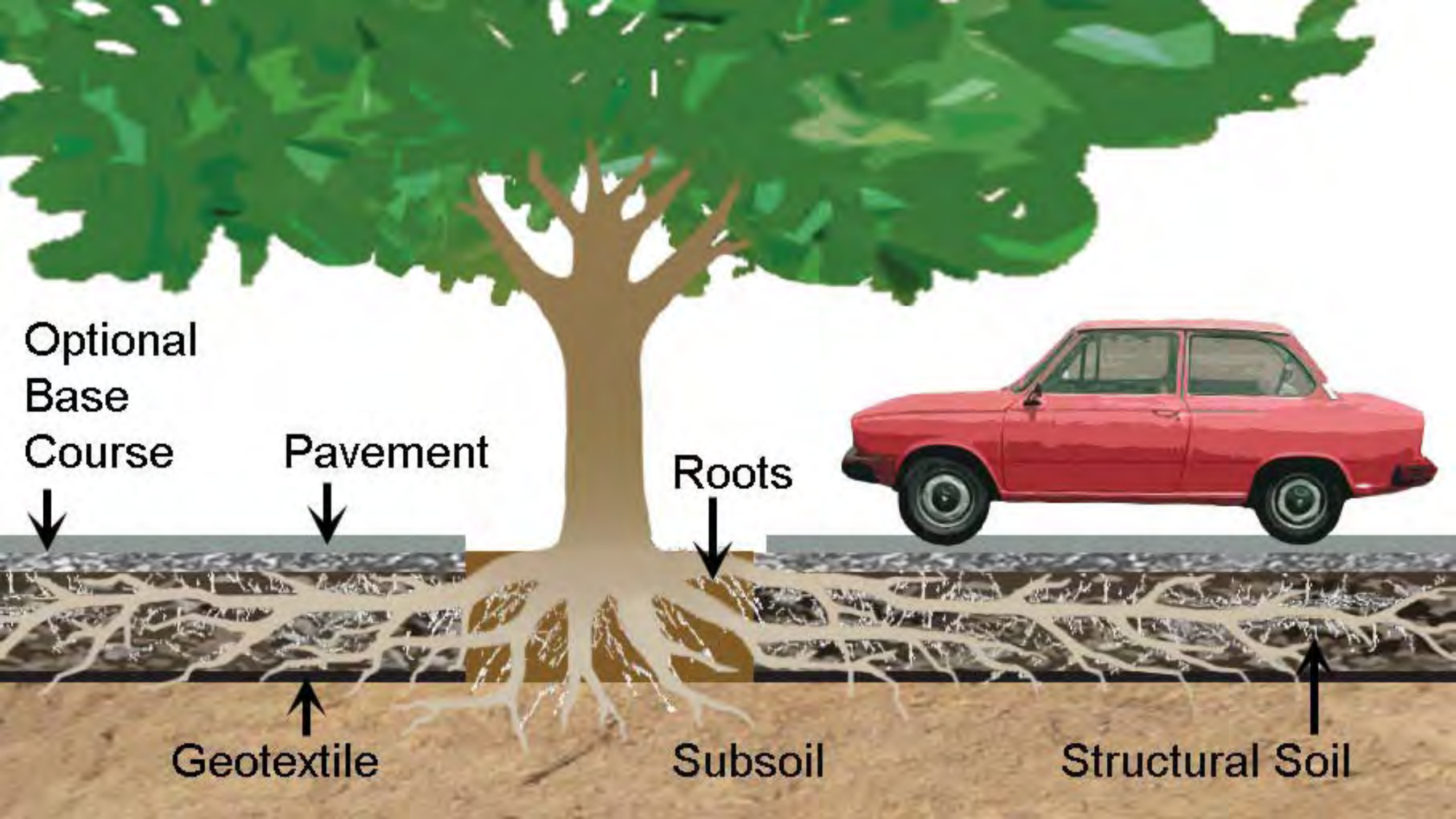
Air or water pore



Stone contact points
where load is
transferred







Optional
Base
Course

Pavement

Roots

Geotextile

Subsoil

Structural Soil





Roots growing through CU-Structural Soil

















Porous Asphalt Research - Planting in CU-Structural Soil



















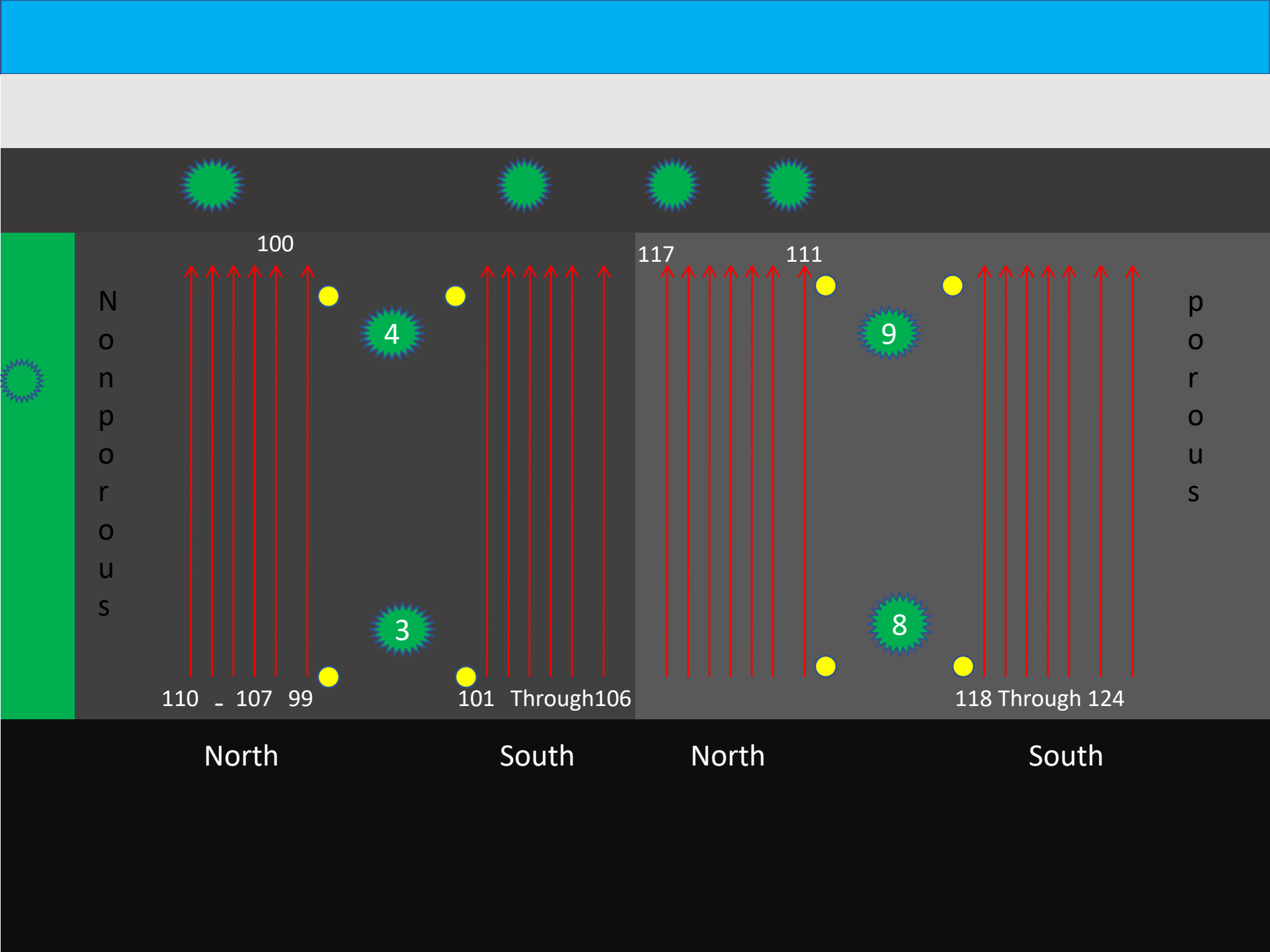


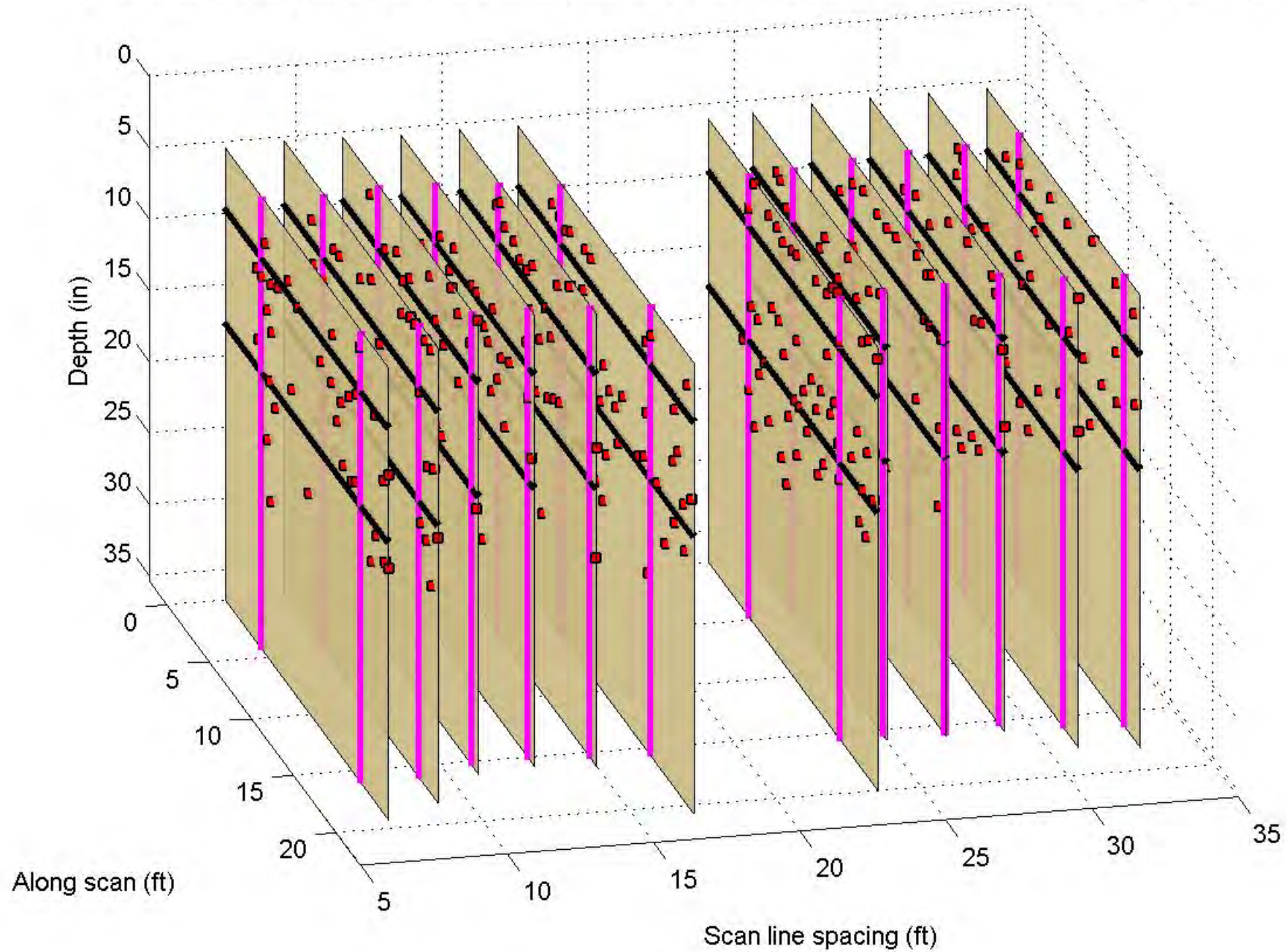


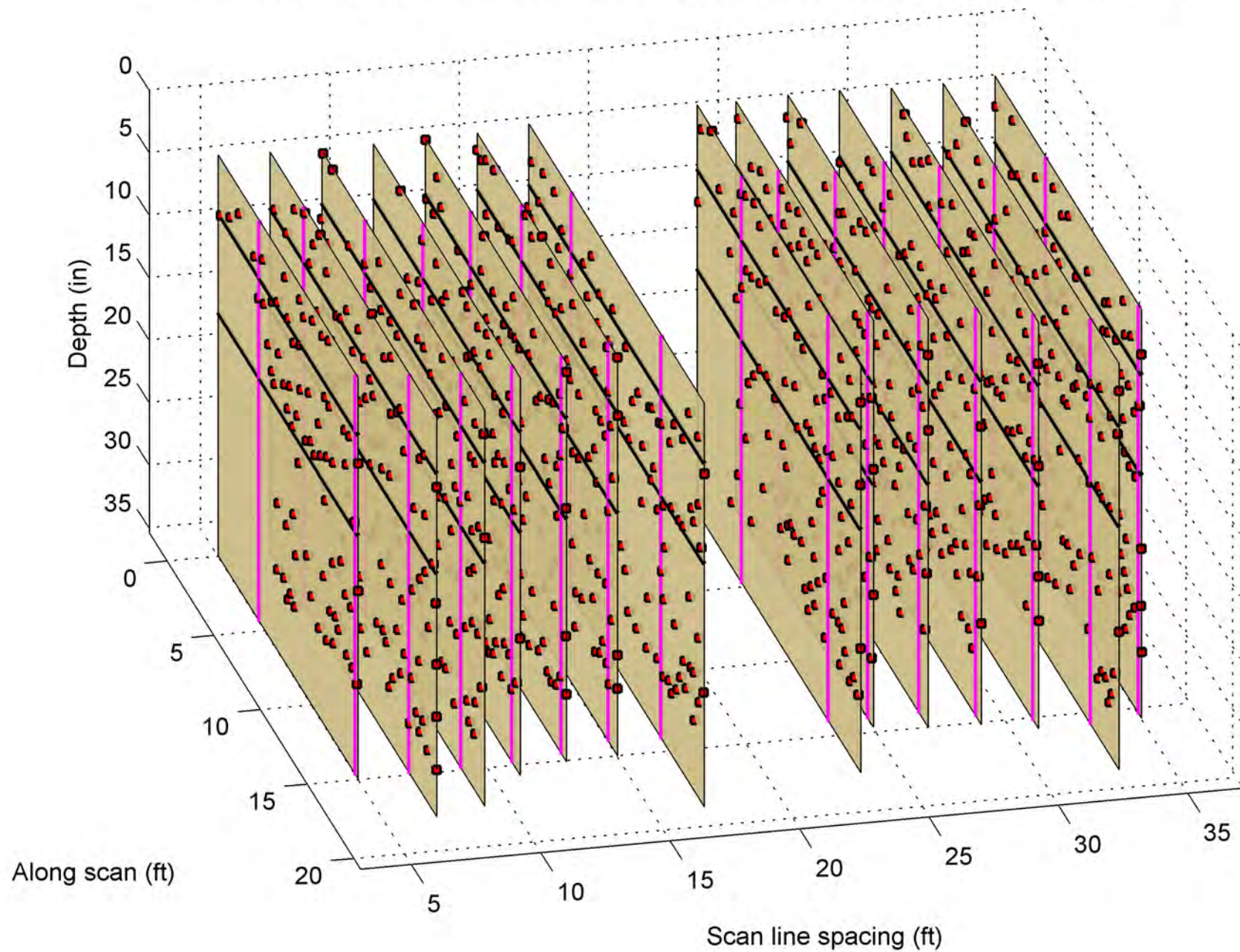


Non-porous

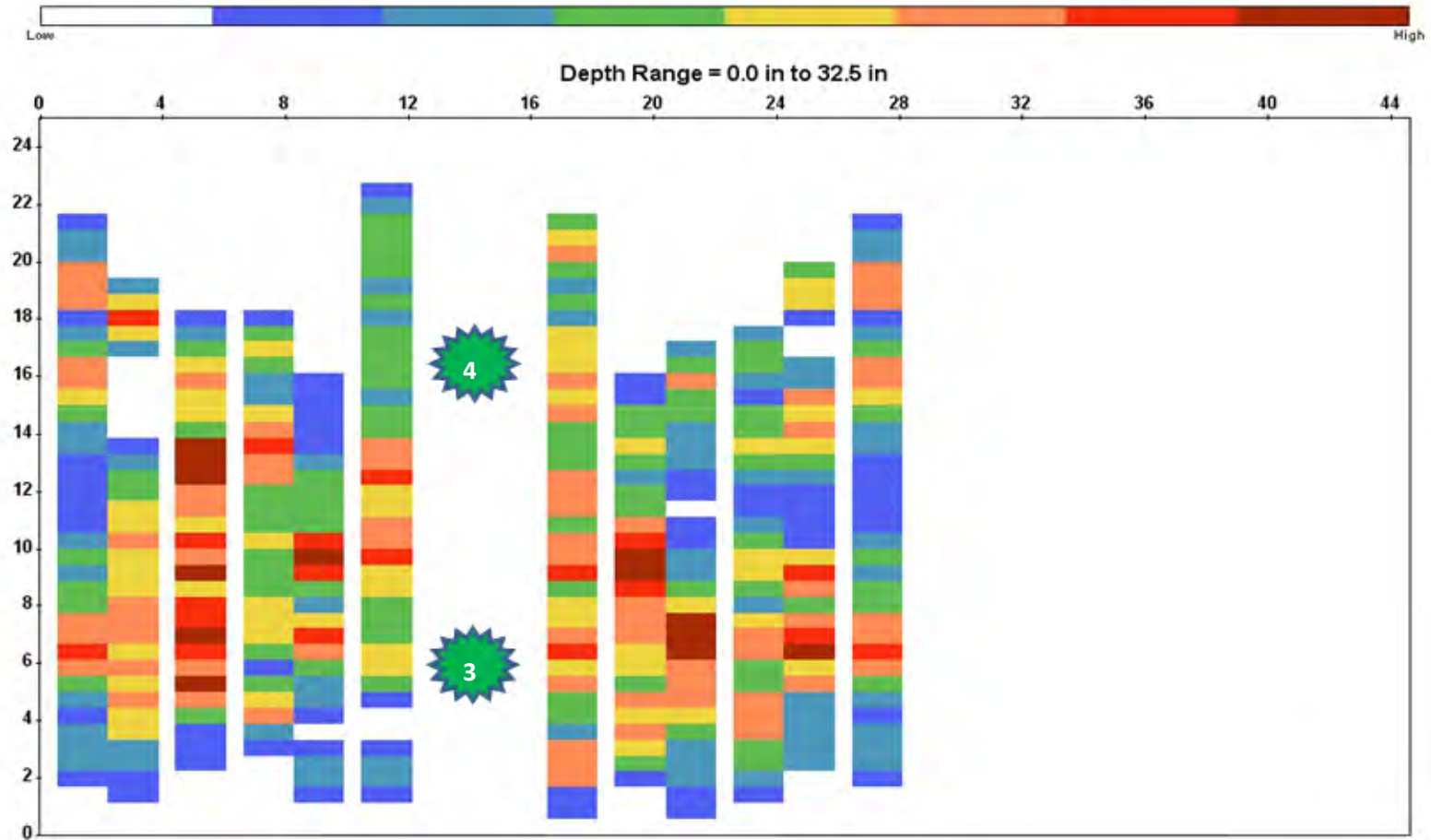
Porous





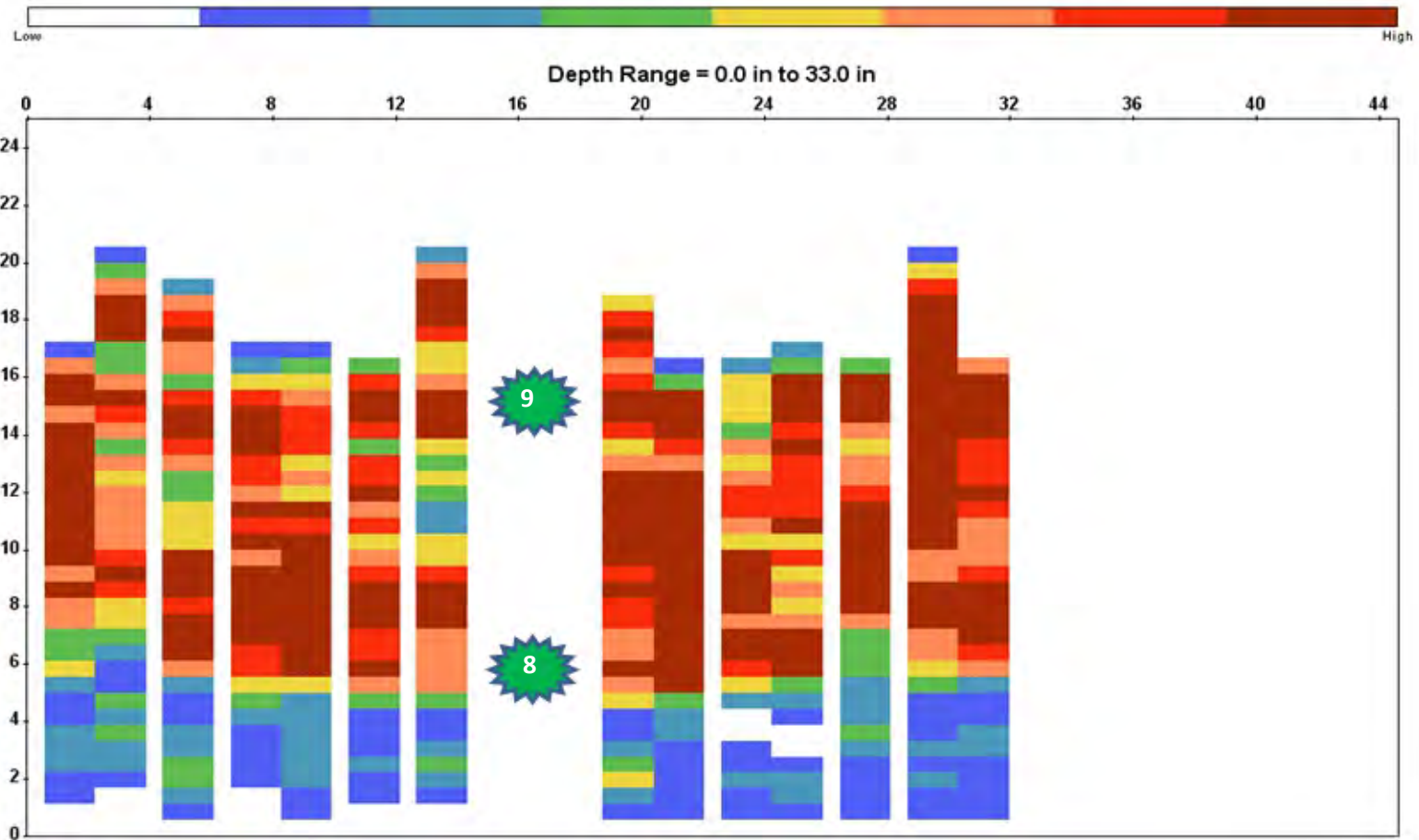


Non-Porous Lot. Root Density



Note: not to scale

Porous Lot. Root Density



Note: not to scale

Shoot and Trunk Growth under Porous and Non-porous Asphalt

Shoot growth 2018

- Non-porous= 11"(9)
- Porous = 18.9"(9)

Diameter of the trunk (dbh) 2018

- Non Porous=7.5"(6)
- Porous= 7.8"(6)



Welcome
to the campus

Porous asphalt
walkway connects
to Waterfront Trail
along Flood Control
Channel.



**Non-porous
meets porous
“bridge” of
porous asphalt.**





Runoff from
non-porous
asphalt into
daylighted
CU Structural
Soil with
mulch cover.



Daylighted CU
Structural Soil
between
parking lot and
Waterfront Trail
paved with
traditional
asphalt.

