Tel Aviv University

Science Promenade

Designing landscape with Green Building principles



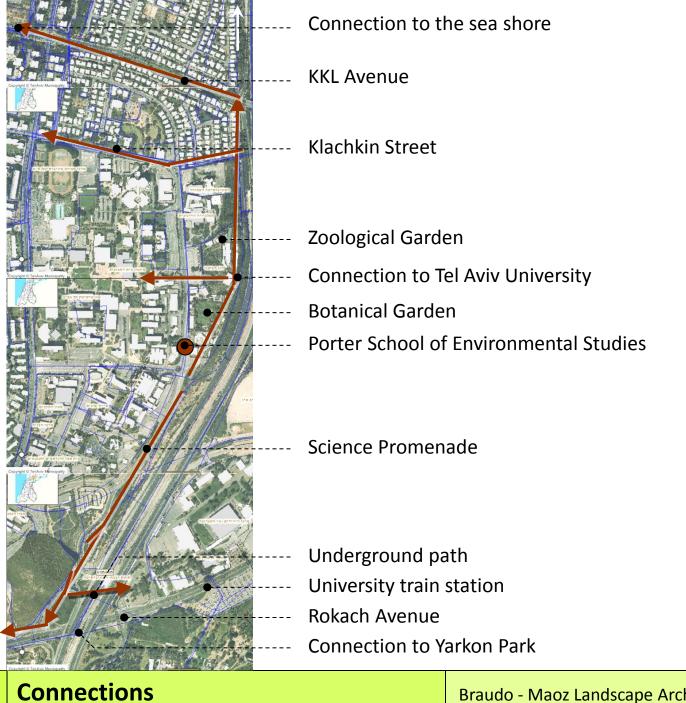


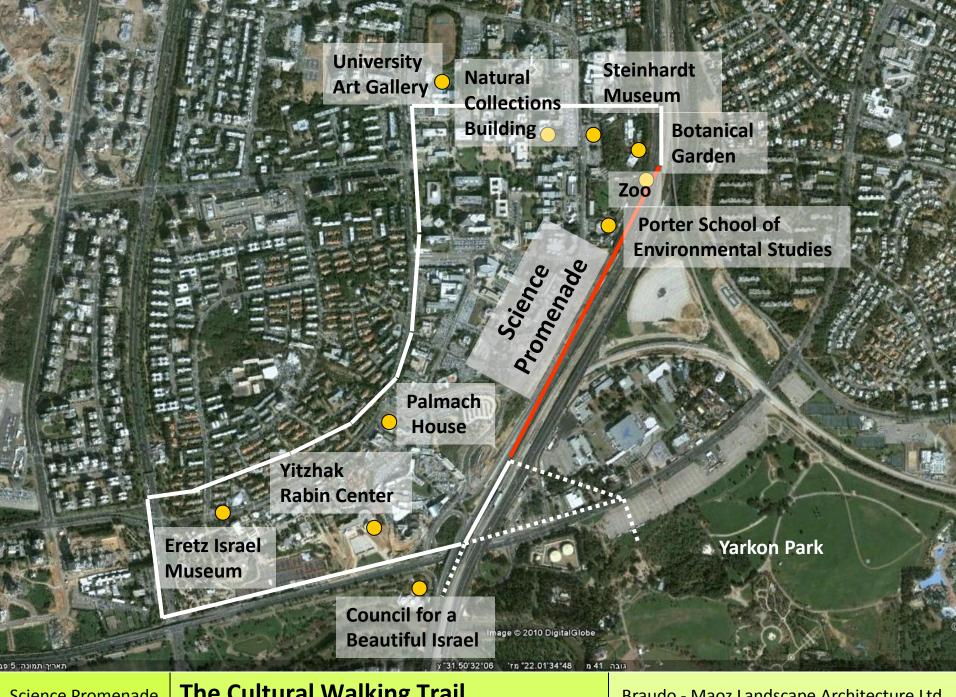


surrounding |

The **Science Promenade** enables a pleasant connection for both pedestrians and cyclists from the university train station to the campus on the highest spot in the city, overlooking the Yarkon River Park and offering a breathtaking view all over the Tel Aviv metropolitan area.







The Cultural Walking Trail

Braudo - Maoz Landscape Architecture Ltd.





existing situation



Existing situation



Opportunities

- Improving the walking connection between the university train station and the campus
- Creating a combined bicycle and pedestrian path for students, university personnel, visitors and local residents
- Views towards Ramat Gan and Yarkon Park

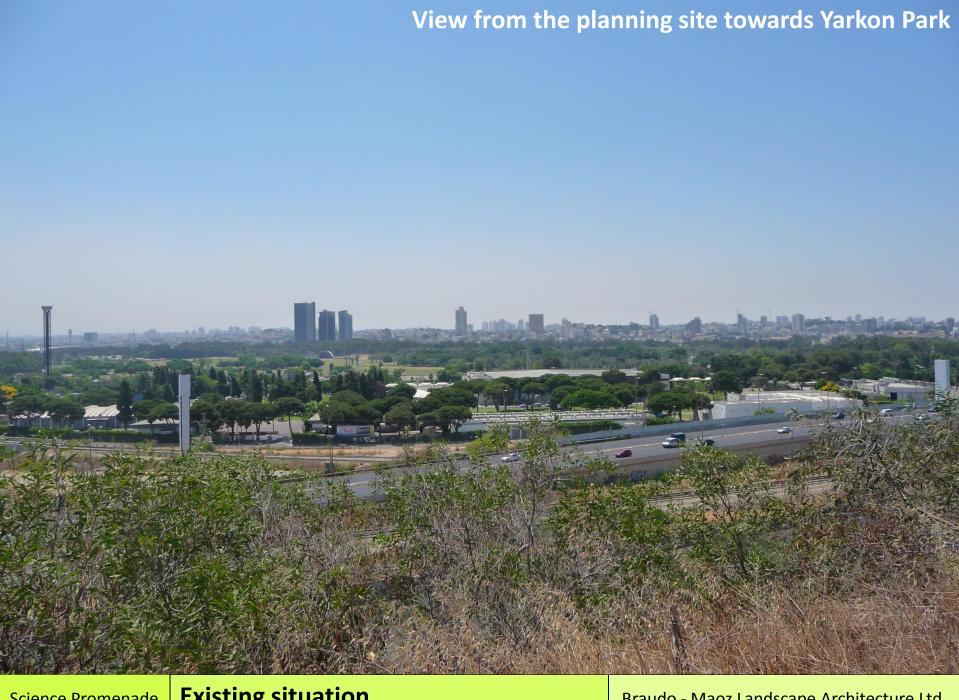


Obstacles:

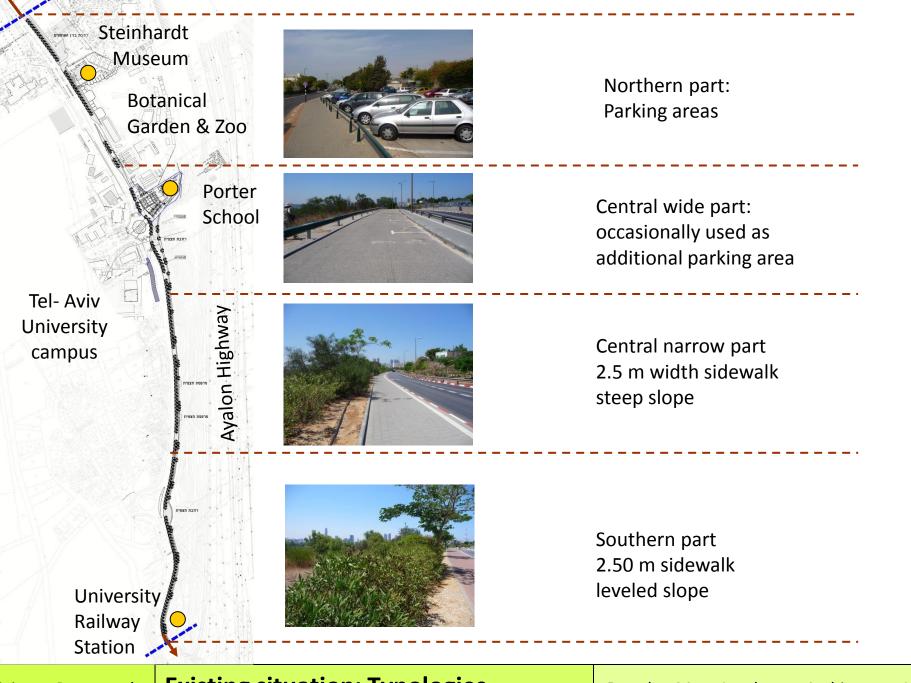
- Strong background noise from Ayalon Highway
- Shallow soil cover above the sandstone rock
- Steep ridge with partial inclination of more than 1:2
- View towards a huge construction area

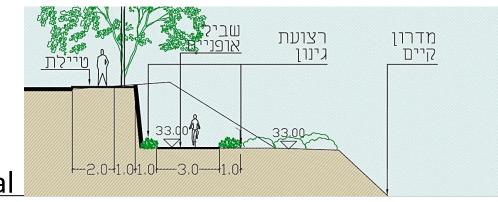






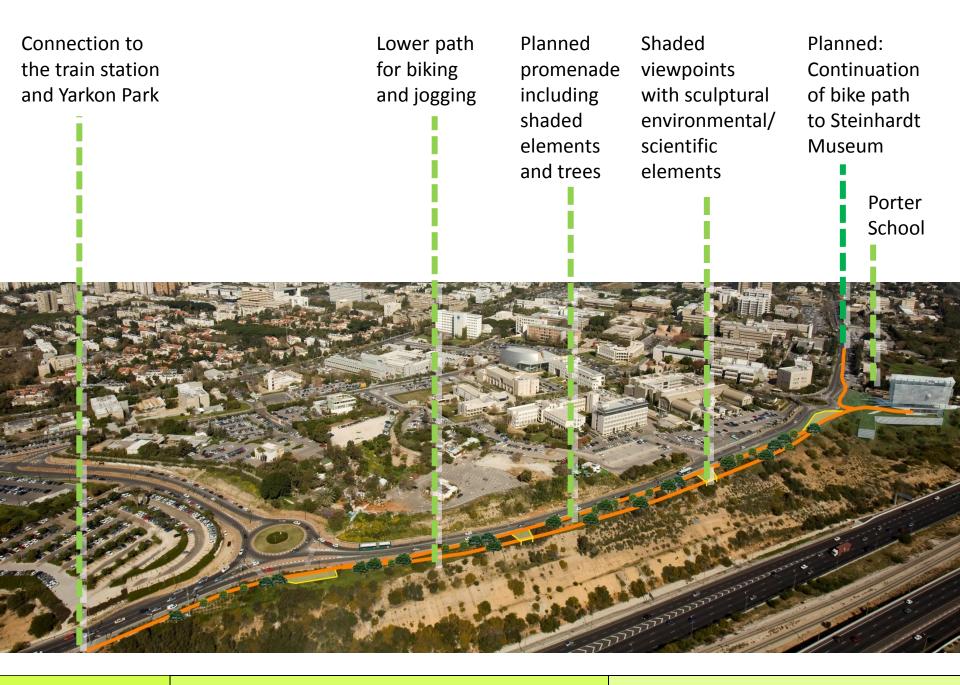
Existing situation





design proposal

2011

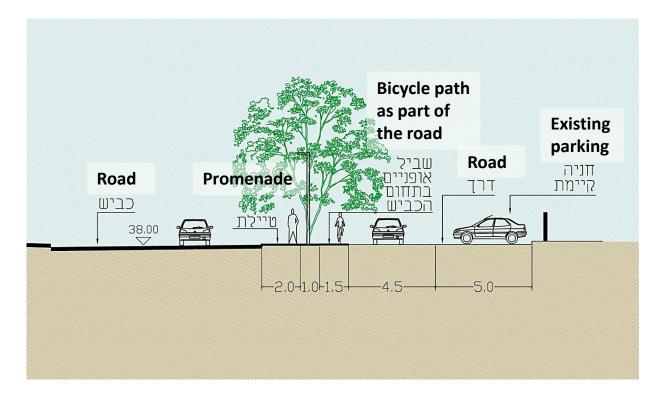


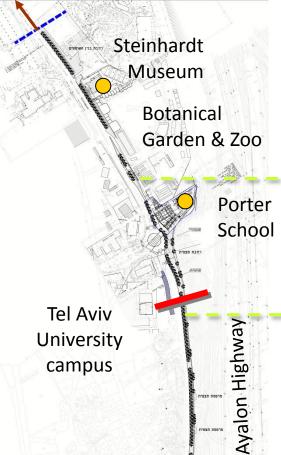
Steinhardt Museum **Botanical** Garden & Zoo Porter School Tel Aviv Ayalon Highway University campus University Railway Station __

Northern part

The promenade as an extension of the existing sidewalk, the bicycle path as part of the existing service road.

In this part some existing parking spaces will be canceled.

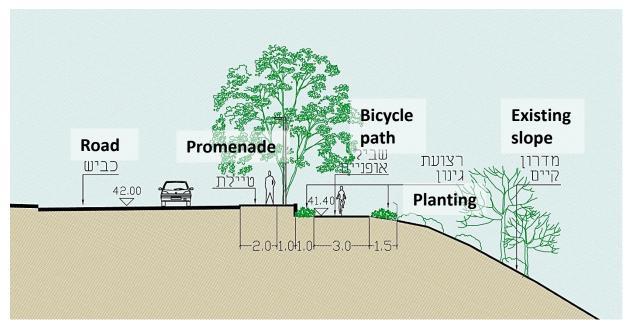




Central part

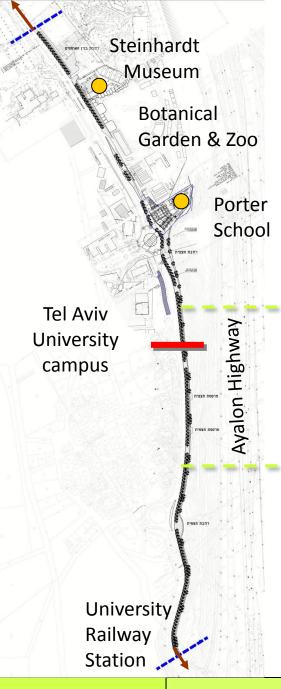
The promenade as an extension of the existing sidewalk.

A low wall separating between the bicycle path and the promenade.



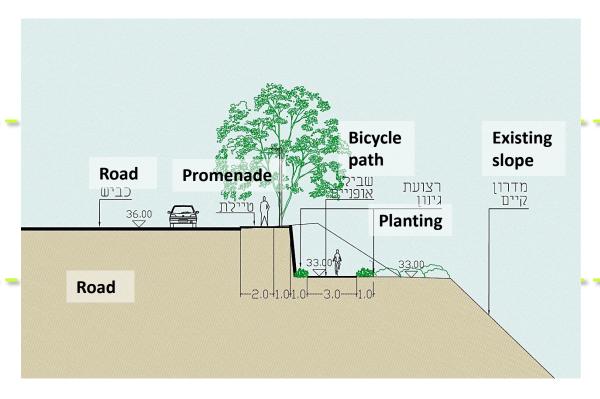
University

Railway Station



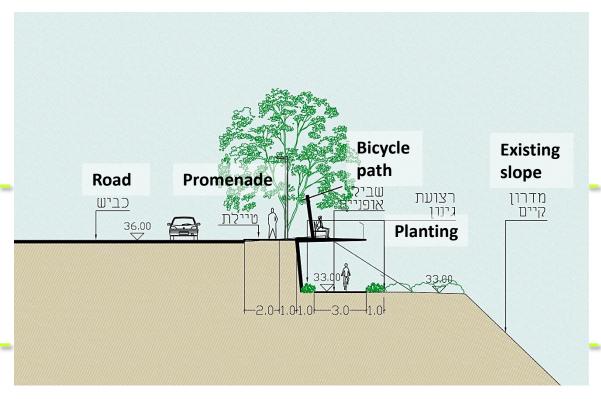
Narrow part

The promenade as an extension of the existing sidewalk. The bicycle path is in a lower level.



Steinhardt Museum **Botanical** Garden & Zoo Porter School Tel Aviv Ayalon Highway University campus University Railway Station _

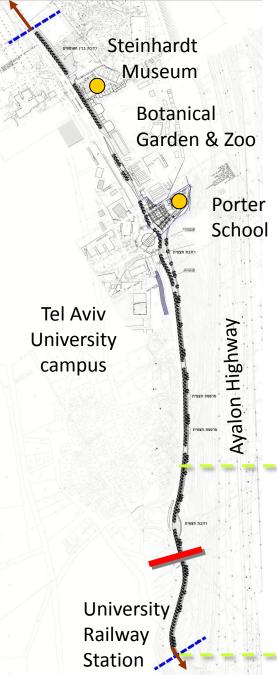
Narrow part - Viewpoint



A viewpoint balcony will be placed in a few points, and the bicycle path will go underneath it.

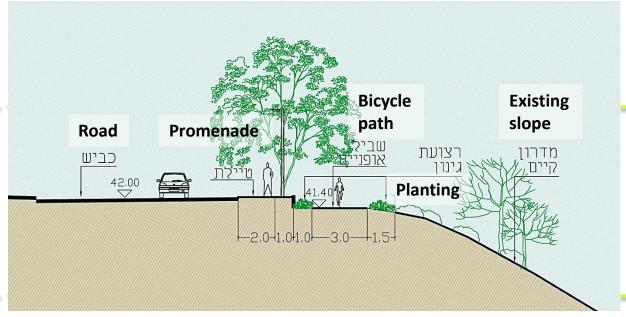
Scientific/ Environmental sculptures will be placed in these

extensions.



Southern part

The promenade is an extension of the existing sidewalk and the plane surface beside it.





case studies

science landscapes

Mark Baltes-dandelion

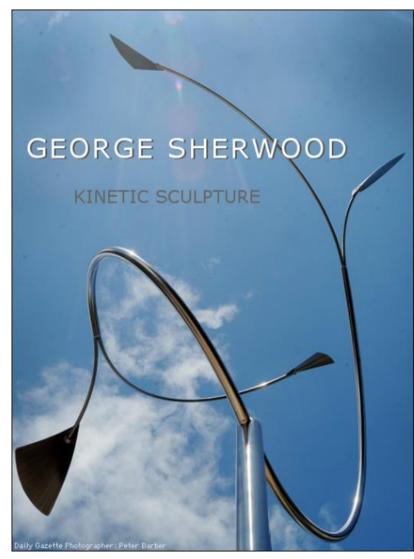


B. Flip-dynamic blue kite forms



Anthony Howe-Rooster Rings

Kinetic sculptures



George sherwood- kinetic sculpture

Solar sculptures











Charles Clore Garden of Science



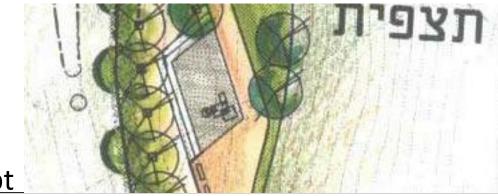












design concept

"genesis"

Science Promenade: Design concept

The proposed promenade stretches along the sandstone cliff overlooking the Yarkon Park and the metropolitan landscape of Tel Aviv.

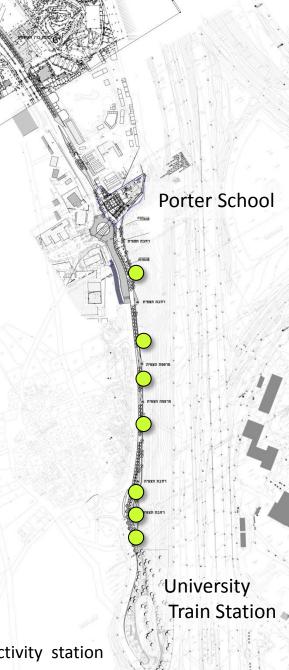
It functions as a pedestrian connection between the train station and the university campus at the Porter School of Environmental Studies – a distance of 600 m.

It is also a promenade for strolling, biking and recreation, as part of a bigger network of bicycle routes and pedestrian trails in the municipal region.

The idea is to create an interactive place where people can experience the different stations and be part of an ongoing process of exploration learning.

Public participation may include:

- Competitions of artists and designers for each station
- Temporary exhibitions in the stations
- School classes sitting areas
- Places for sport activities related to energy



Sculpture / activity station



Theme stations

Based on the seven days of the Creation (Genesis 1)

Humans

Living creatures

Sun

Moon

Vegetation

Water

Light

Light

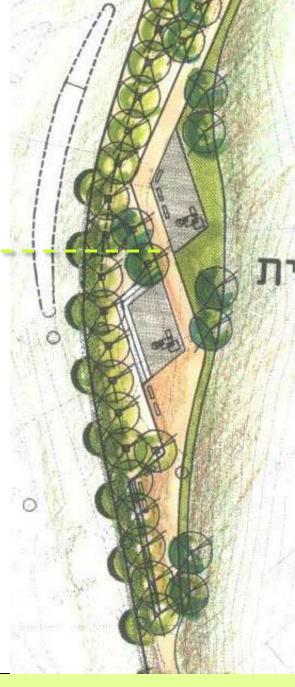
In the beginning God created the heaven and the earth.

And God said: 'Let there be light.' And there was light.

ַוִיהִי-אוֹר. וַיְהִי-אוֹר. וַיְהִי-אוֹר.





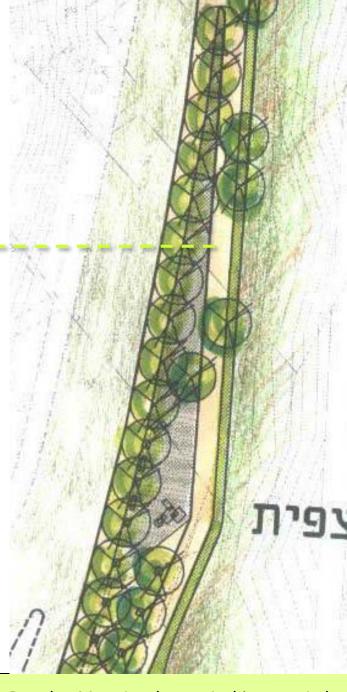


Water

And God said: 'Let there be a firmament in the midst of the waters, and let it divide the waters from the waters.`

וַיּאמֶר אֶלהִים, יְהִי רָקִיעַ בְּתוֹךְ הַמָּיִם, וִיהִי מַבְדִּיל, בֵּין מַיִם לָמָיִם





Vegetation

And God said: 'Let the earth put forth grass, herb yielding seed, and fruit-tree bearing fruit after its kind, wherein is the seed thereof, upon the earth.'

וַיּאמֶר אֱלֹהִים, תַּדְשֵׁא הָאָרֶץ דֶּשֶׁא עֵשֶׂב מַזְרִיעַ זָרַע, עֵץ פָּרִי עֹשֶׂה פָּרִי לְמִינוֹ, אֲשֶׁר זַרְעוֹ-בוֹ עַל-הָאָרֶץ ; וַיְהִי-כֵן.





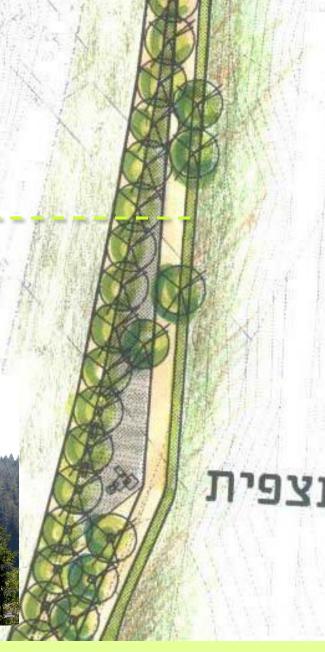
Sun and Moon

And God made the two great lights: the greater light to rule the day, and the lesser light to rule the night; and the stars

וַיַּעַשׂ אֱלֹהִים, אֶת-שְׁנֵי הַמְּאֹרֹת הַגְּדֹלִים: אֶת-הַמְּאוֹר הַגָּדֹל, לְמֶמְשֶׁלֶת הַיּוֹם, וְאֶת-הַמָּאוֹר הַקְּטֹן לְמֶמְשֶׁלֶת הַלַּיְלָה, וְאֵת הַכּוֹכְבִים







Living creatures

And God said: 'Let the waters swarm with swarmsof living creatures, and let fowl fly above the earthin the open firmament of heaven.`

וַיּאמֶר אֶלהִים--יִשְׁרְצוּ הַמַּיִם, שֶׁרֶץ נֶפֶשׁ חַיָּה; וְעוֹף יְעוֹפֵף עַל-הָאָרֶץ, עַל-פְּנֵי רְקִיעַ הַשְּׁמִיִם.





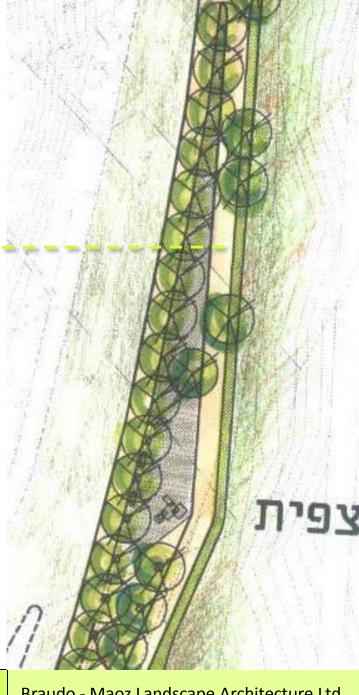
Design concept

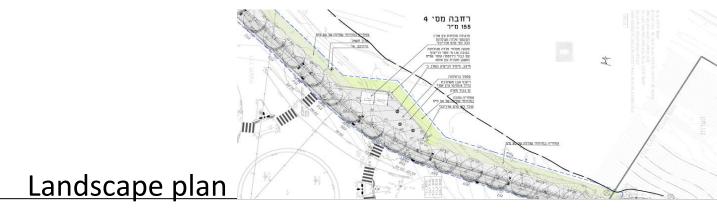
Humans

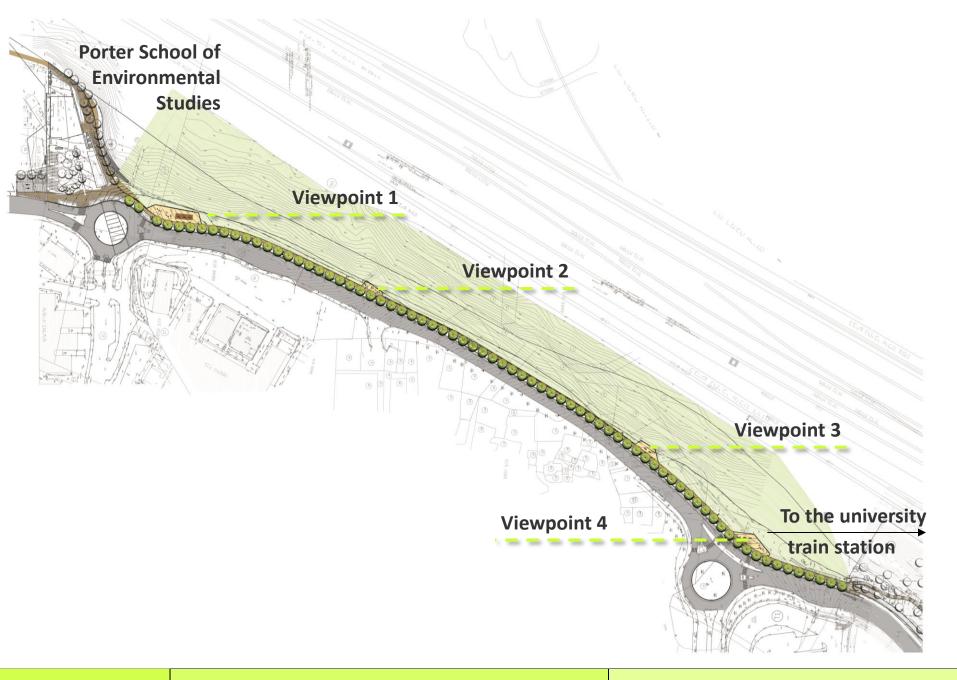
And God created man in His own image, in the image of God created He him; male and female created He them

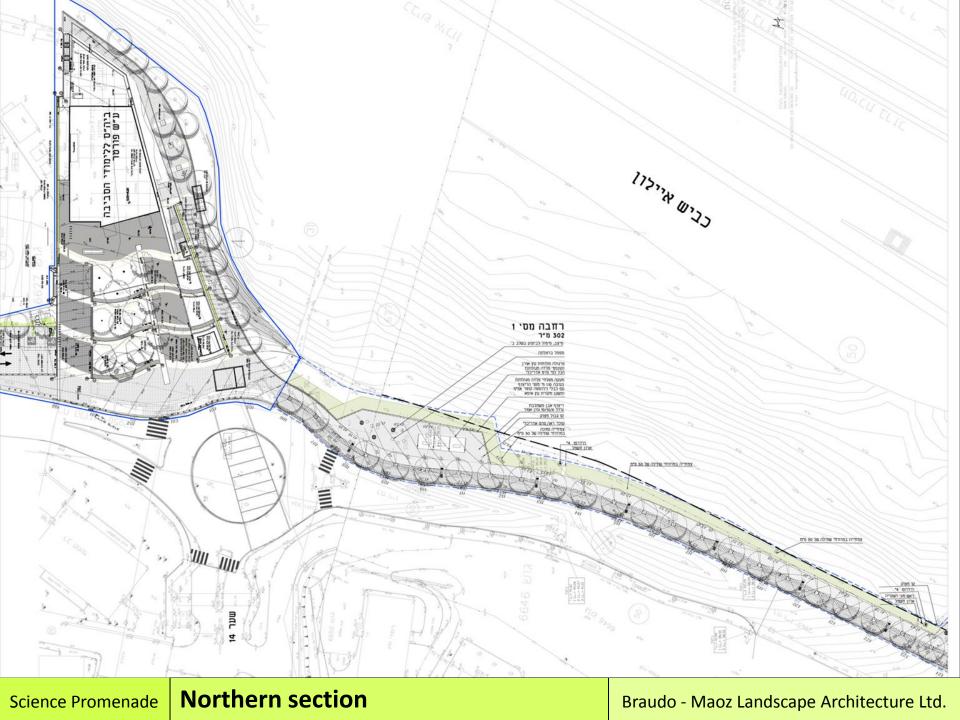
וַיִּבְרָא אֱלֹהִים אֶת-הָאָדָם בְּצַלְמוֹ, בְּצֶלֶם אֱלֹהִים בָּרָא אתו



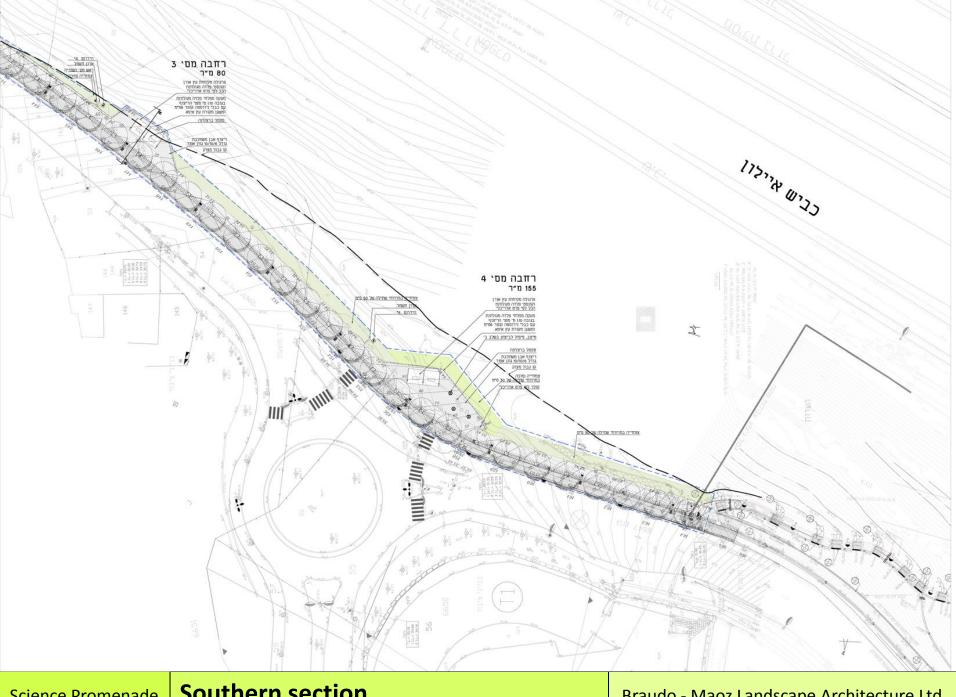






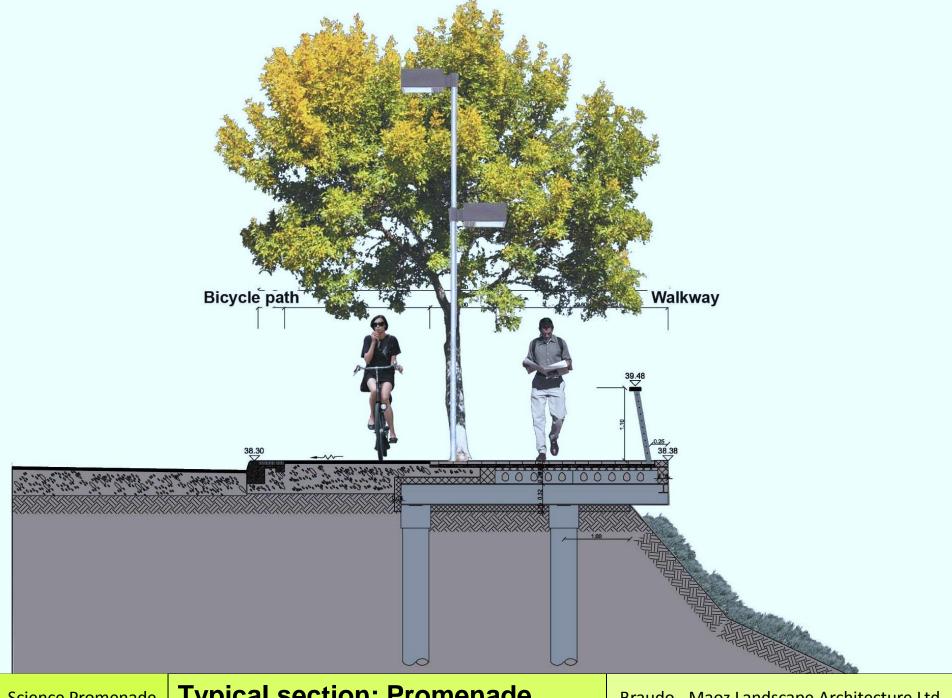


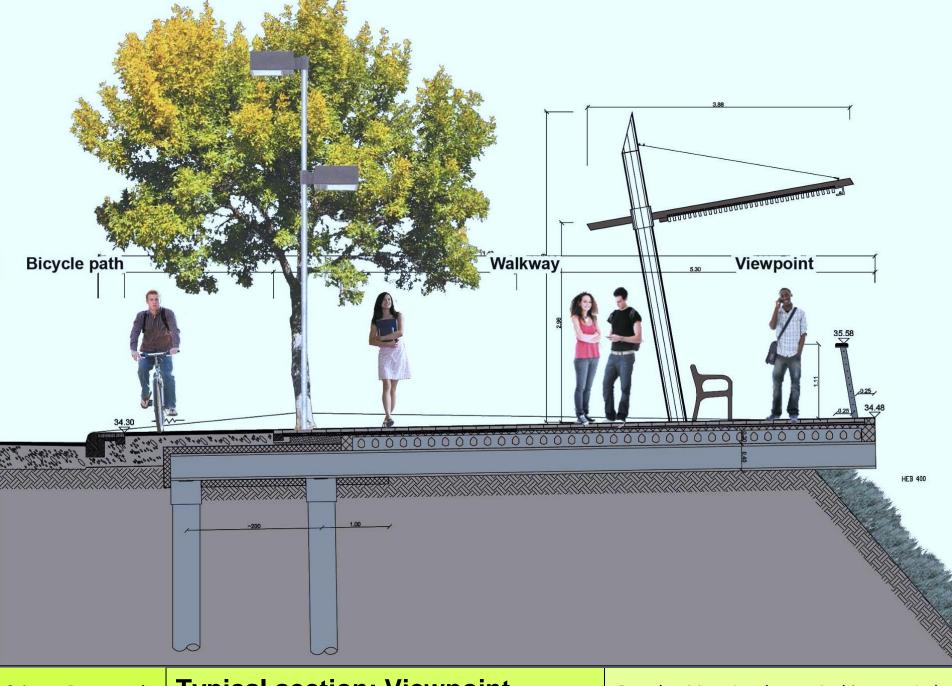




Southern section

Braudo - Maoz Landscape Architecture Ltd.





Typical section: Viewpoint



illustrations

before & after



Science Promenade

Braudo - Maoz Landscape Architecture Ltd.

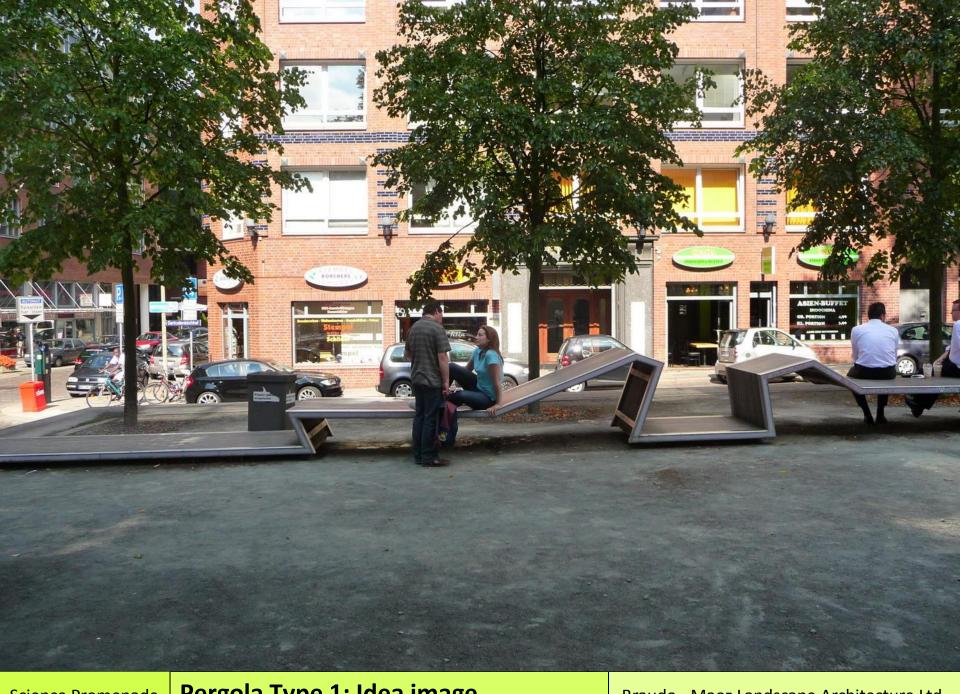




Braudo - Maoz Landscape Architecture Ltd.

<u>Pergola</u>

alternatives

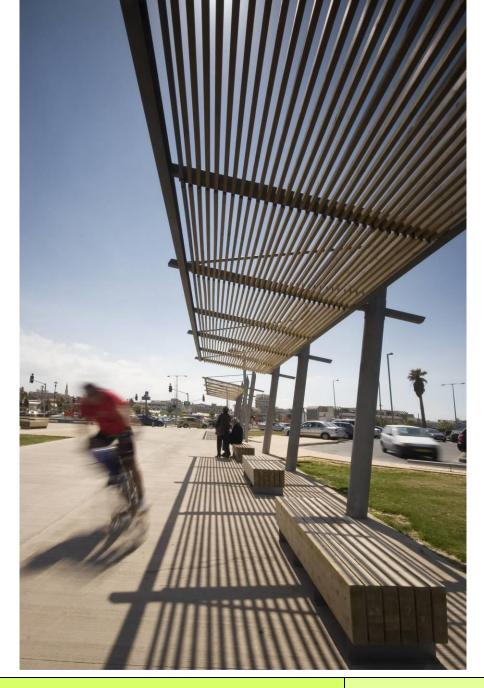


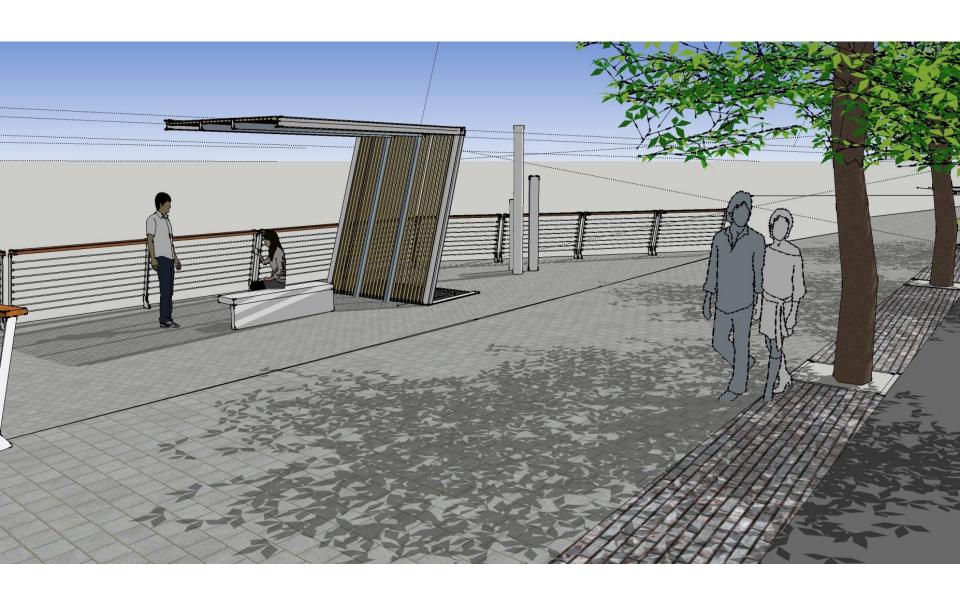
Pergola Type 1: Idea image





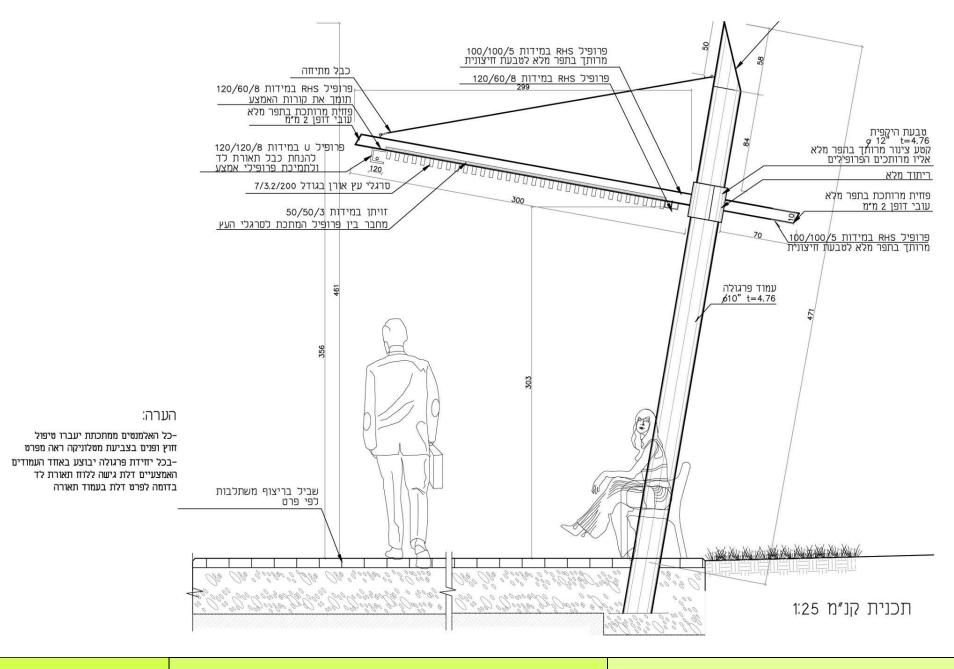


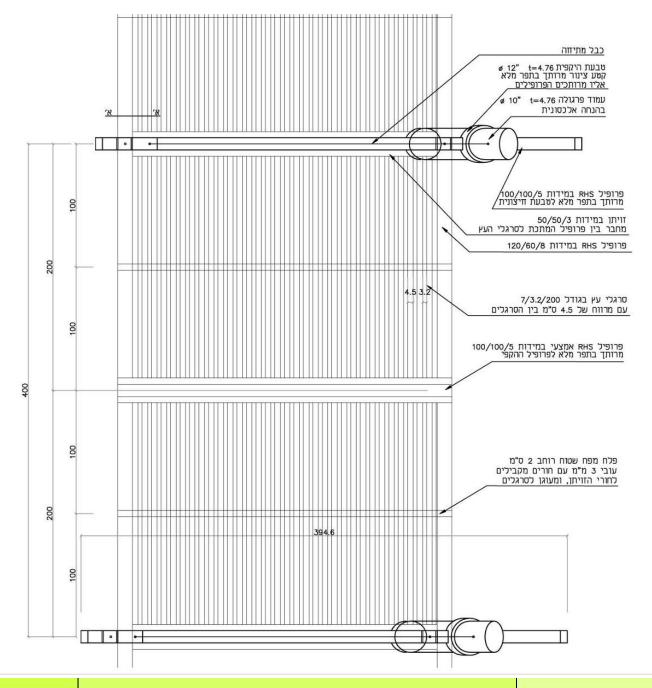




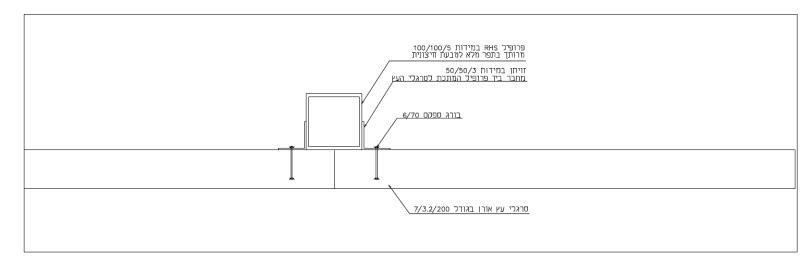




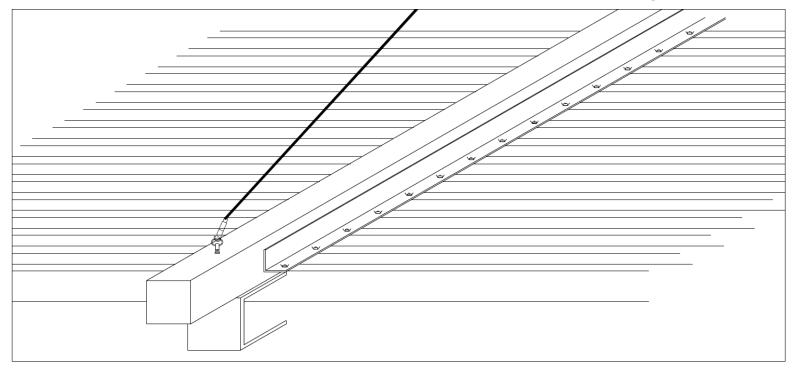




תכנית קנ״מ 1:25



חיבור קורות העץ לקורות פלדה קנ"מ 1:50



איזומטריה



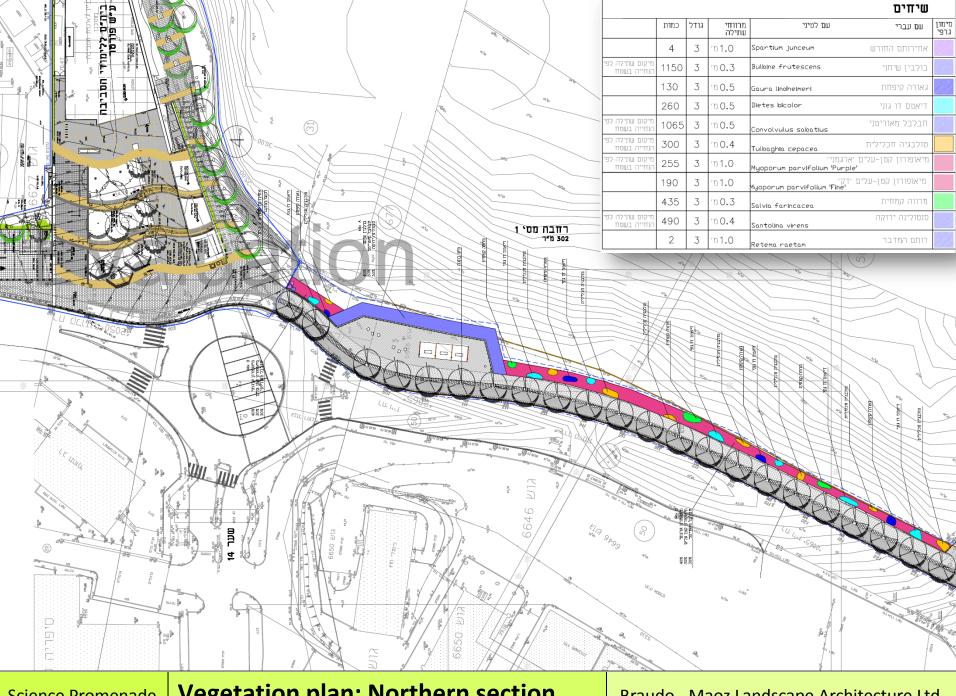


Vegetation plan 🖥

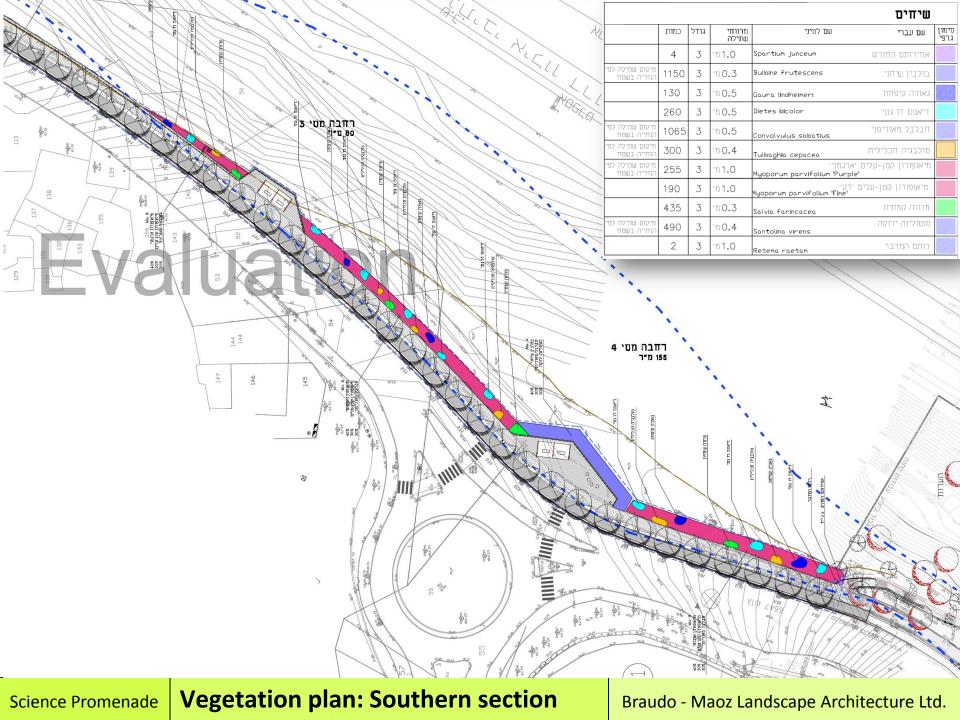








Vegetation plan: Northern section





Celtis Bungeana





Science Promenade | Spartium junceum



Salvia farincacea



Tulbaghia cepacia



Dietes bicolor



Gaura lindheimeri

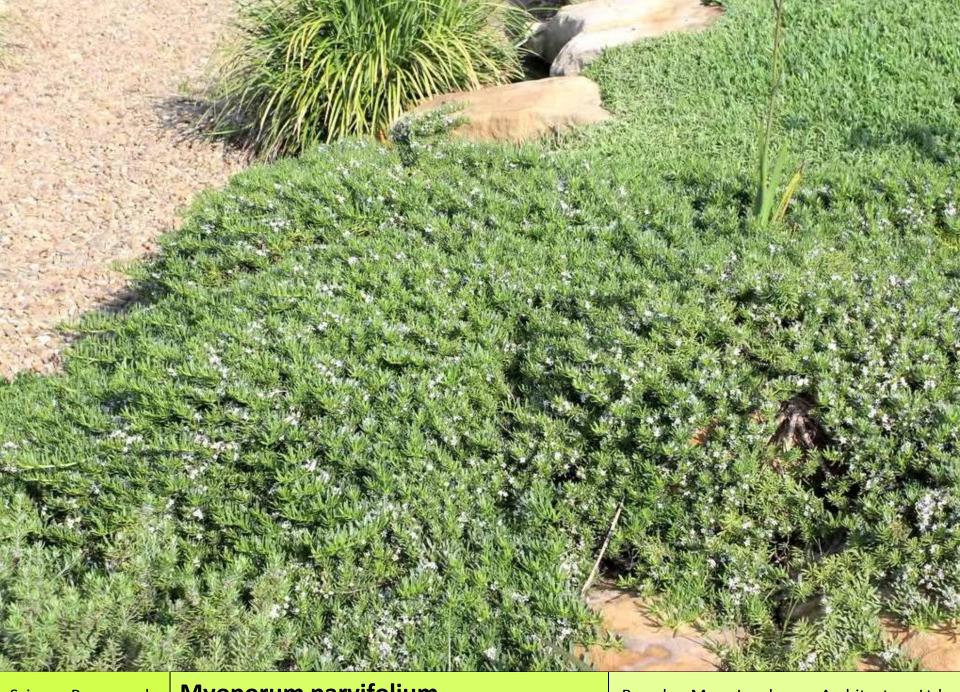


Bulbine frutescens



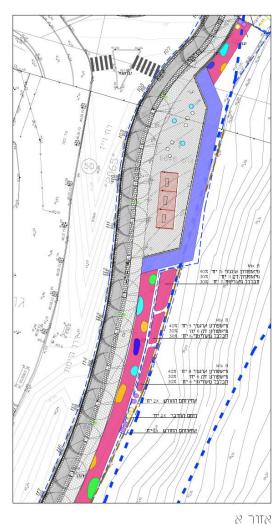
Convolvulus sabatius

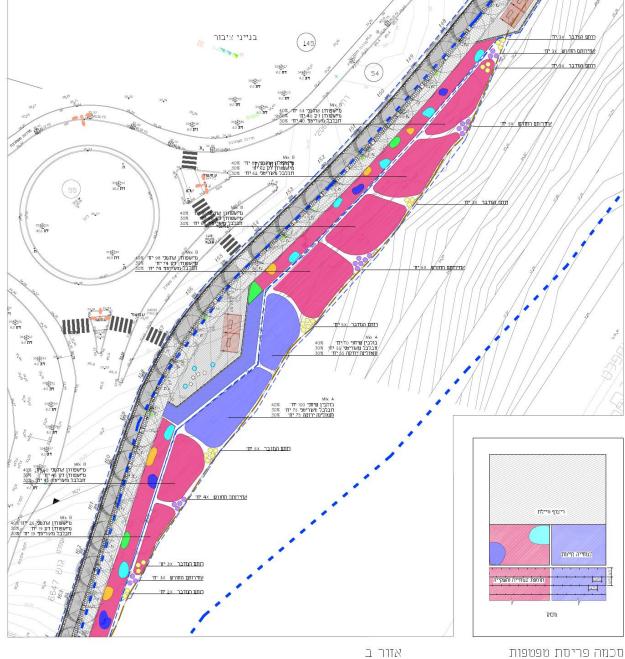




Myoporum parvifolium

				שיחים - שלב ב	
	כמות	גודל	מרווחי שתילה	שם לטיני שם לטיני	סימון גרפי
	25	4	m1.0	Spartium Junceum אחירותם החורש	8//
מיקום שתילה לפי הנחייה בשמח	170	4	ท0.75	Bulbine frutescens בוֹרָבִין שִיחִנִי	
מיקום שתילה לפי הנחייה בשמח	461	4	าง0.75	Convolvulus sabatius תבלבל מאוריטני	
מיקום שתילה לפי הנחייה בשמח	443	4	າ 0.75	נויאופורון קטן-עלים 'ארגמני' Myoporun parvifoliun Purple'	
	331	4	n 0.75	נויאופורון קטן-עלים 'דק' Myoporun parvifoliun Fine'	V/V/L
מיקום שתילה לפי הנחייה בשמח	130	4	าก0.75	Santolina virens מנטולינה ירוקה	10
	26	4	n1.0	Retema raetam רותם המדבר	







Completion



After planting



After planting

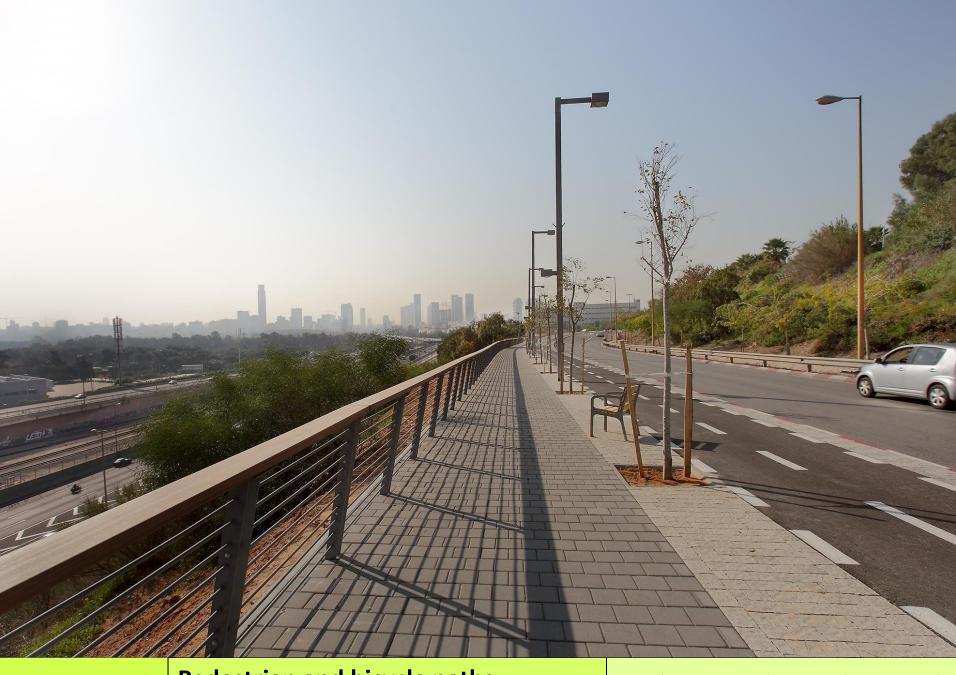


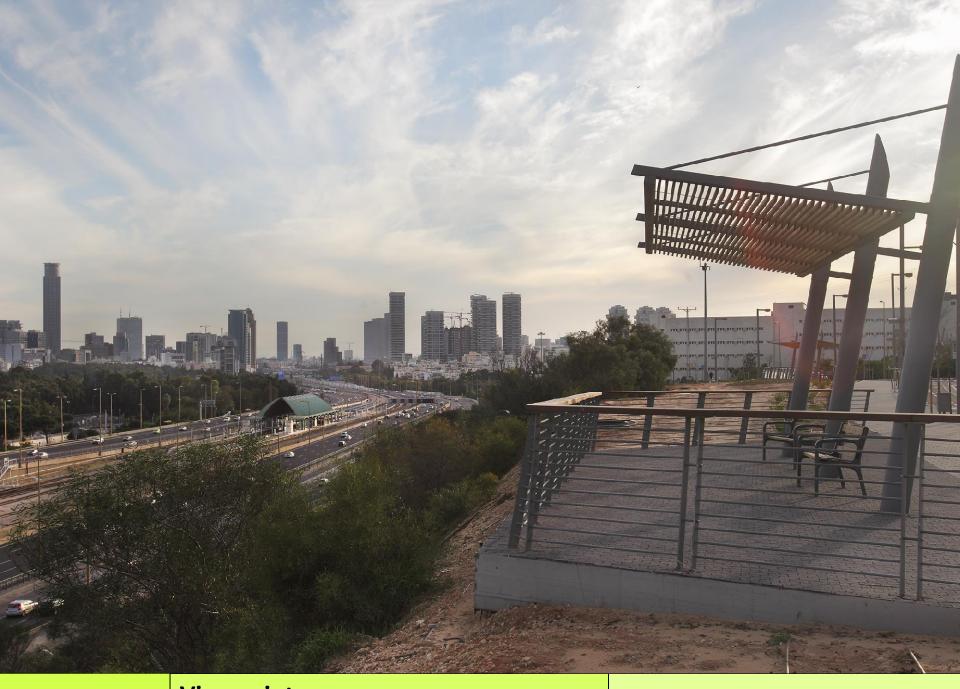
Near Porter School





Viewpoint





Viewpoint



Night view