Claims

1. A system for assembling a road having a road deck and a road direction, wherein the system comprises a plurality of road deck elements for forming the road deck by placement of the road deck elements next to each other in at least the road direction, wherein the system further comprises a plurality of plastic support structures, wherein each of the support structures comprises a base plate and at least one supporting element, extending, or for extending, upwardly from the base plate for supporting at least partly one of the road deck elements, wherein in an assembled condition the system is such that when rainwater falls onto the road deck, it predominantly flows away over the road deck to one or more rainwater collection points adjacent each support structure and/or each road deck element, wherein the plurality of plastic support structures comprises a multi-functional support structure which is provided with at least one filter for filtering rainwater that has from the one or more rainwater collection points entered a treatment volume, wherein at least a part of the at least one filter is positioned within that treatment volume, wherein in the assembled condition the system is such that rainwater which is collected by the one or more rainwater collection points and that has entered the treatment volume includes rainwater which has flowed over at least an other area of road deck, wherein the other area of road deck is different from an area of road deck that covers that at least one multifunctional plastic support structure.
2. The system according to claim 1, wherein in the assembled condition the system is such that rainwater which has been filtered by the at least one filter finds its way away from the treatment volume into other volume, wherein that other volume is covered by the other area of road deck.
3. The system according to claim 1 or 2, wherein the system comprises a plurality of inlet-gutter parts, so that in the assembled condition of the system adjacent each support structure and/or each road deck element at least a part of an inlet gutter extends in the road direction for functioning as rainwater collection points, and/or extends in a direction transverse to the road direction for functioning as rainwater collection points.

4. The system according to claim 3, wherein in the assembled condition of the system, rainwater flows into the treatment volume when the rainwater has reached a predetermined height in the inlet gutter.
5. The system according to any one of the previous claims, wherein in the assembled condition of the system, the treatment volume is in its entirety under area of road deck that covers that at least one multi-functional support structure.
6. The system according to any one of claims 1-5, wherein the system comprises a plurality of outlet gutter-parts, so that in the assembled condition of the system adjacent each support structure and/or each road deck element at least a part of an outlet-gutter extends in the direction of the road, for streamlining in a traffic direction of the road a flow of rainwater that has been filtered by the at least one filter.
7. The system according to any one of the previous claims, wherein the at least one filter comprises upstream a coarse filter for filtering particles out of the water based on a mesh size of the filter, wherein preferably in the assembled condition of the system, at least a part of the coarse filter is oriented parallel to the surface of the water or includes an acute angle with the surface of the water, and rainwater is upstream the coarse filter arranged to pass a position that is below that part of the coarse filter.
8. The system according to claim 7, wherein the at least one filter comprises downstream of the coarse filter a relatively fine filter that is configured to adsorb and capture at least one of Petroleum Hydrocarbons (TPH), Fats, Oils and Grease (FOG), oily sheen, microplastic particles and small rubber particles.
9. The system according to any one of the previous claims, wherein each of the plastic support structures of the plurality of plastic support structures is in structure the same, and preferably also in dimensions the same.
10. The system according to any one of the previous claims, wherein the road deck elements are shaped such that in the assembled condition of the system the road slightly slopes off towards one side of the road and/or wherein each road deck element has a most upper road deck that in the assembled condition of the system slightly slopes off in one direction across a traffic direction of the road.
11. The system according to any one of the previous claims, wherein the treatment volume includes at least one part for facilitating sedimentation.

12. The system according to claim 11, wherein the at least one part for facilitating sedimentation comprises a first part for facilitating sedimentation upstream the at least one filter.
13. The system according to claim 12, wherein the at least one part for facilitating sedimentation comprises a second part for facilitating sedimentation upstream the relatively fine filter.
14. The system according any one of the previous claims, wherein the treatment volume is at least partially delimited by impermeable material shaped for holding a volume of water.
15. The system according to claim 14 when dependent on claim 3, wherein the system is such that in the assembled condition of the system the inlet gutter extends through the impermeable material.
16. The system according to claim 14 when dependent on claim 6, wherein the system is such that in the assembled condition of the system, the outlet gutter extends through the impermeable material.
17. The system according to any one of claims 14-16, wherein in the assembled condition the system comprises at least one overflow-exit and/or at least one pathway for aeration, preferably under the road deck.
18. The system according to any one of the previous claims, wherein the treatment volume is provided with an overflow-exit for regulating that the treatment volume at most holds a volume of water that is equal to the treatment volume.
19. The system according to any one of claims 3-19, wherein in the assembled condition of the system, the inlet gutter parts adjacent the multi-functional support structure are provided with flow exits for releasing rainwater into the treatment volume.
20. The system according to any one of the previous claims, wherein the system is provided with at least one sensor for detecting the status of the at least one filter, wherein status includes one of filter sensitivity, filter capacity, and pressure exerted onto the filter.