

GMP - Geo Mesh Pipe

Low Impact Development – Stormwater Management
GMP - Geo Mesh Pipe
Green Infrastructure Program

GMP - Geo Mesh Pipe











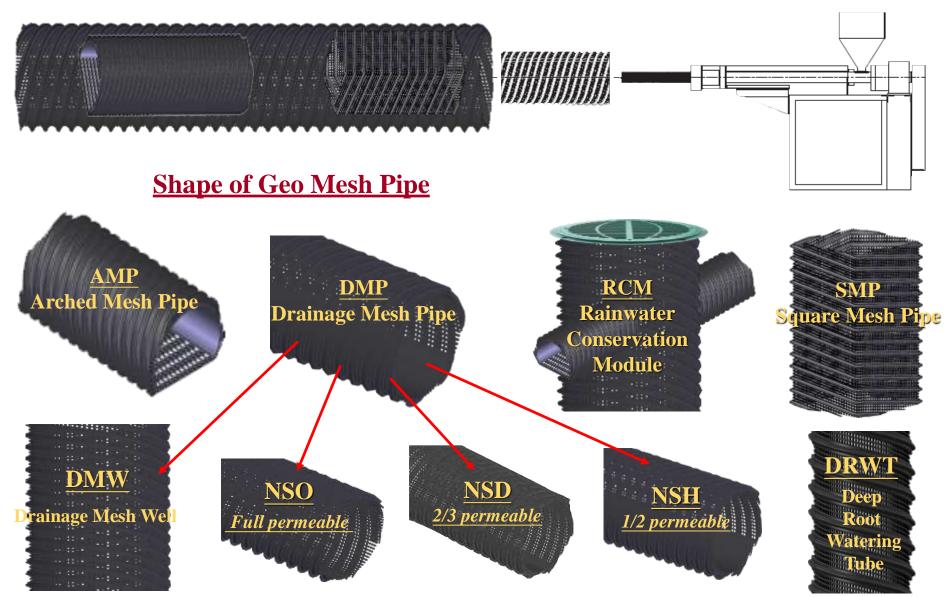


Green Infrastructure Program - Create a Comfortable and Healthy Environment GMP - Geo Mesh Pipe is the Economical & Simple Solutions



GMP - Geo Mesh Pipe - Manufacturing

GMP - Geo Mesh Pipe is Made of Extruded Plastic





Sign

GMP - Geo Mesh Pipe - Features



without extra filter material, such as non-woven fabric.



Unique Characteristics of Drainage Mesh Pipe





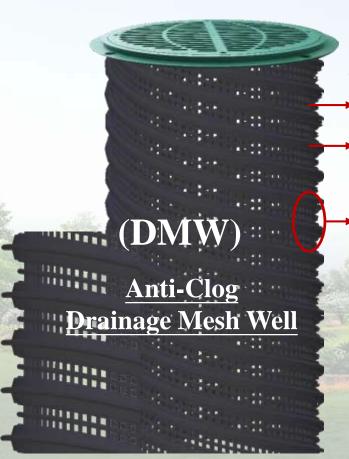




DMW - Drainage Mesh Wells-Unique Characteristics

Drainage Mesh Well does not need to use gravel, grading, non-woven fabrics and other filter materials.

The Mesh Well is not blocked, and the ecological engineering method is the best underground collection and drainage material.



DMW- Drainage Mesh Wells-Unique Characteristics

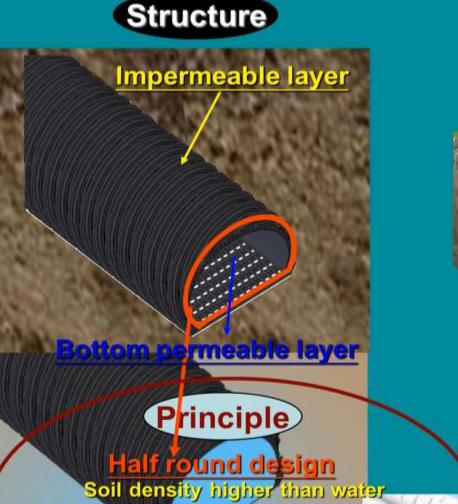
→ The sidewall openings are fine mesh design.

→ The sidewall has T-type thread design and high compressive resistance.

Drainage Mesh Well sidewall is Anti-Clog and minimizes soil entry without extra filter material, such as non-woven fabric.



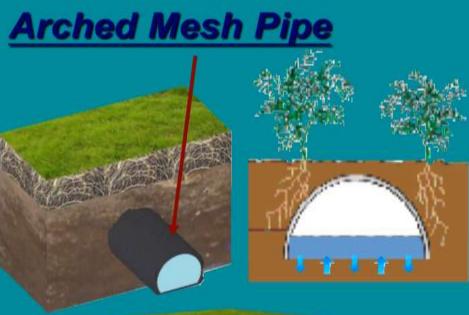
Unique Characteristics of Arched Mesh Pipe



Filter Material-Free

Clog-resistant

Natural sink of soil particles due to gravity water chamber obstruction is prevented



Traditional installation

Gravel Non-woven fabric

Traditional subsoil drainage pipe

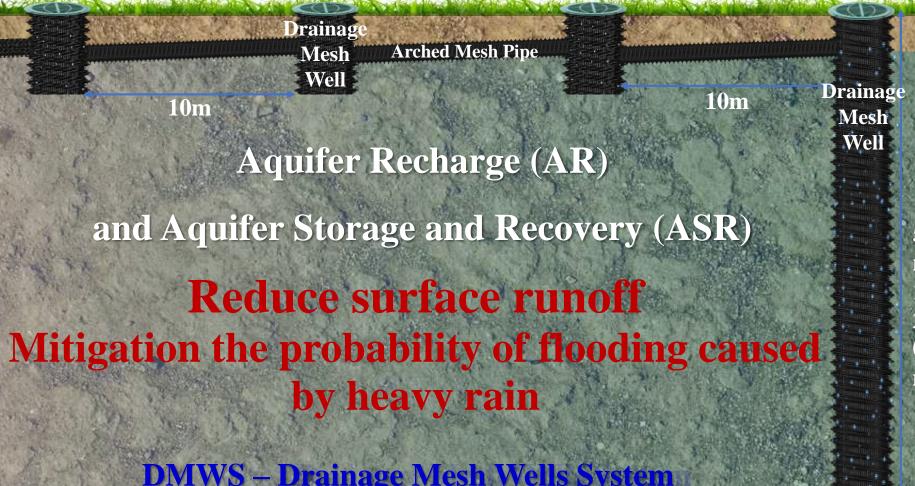


RCM - Rainwater Conservation Module





Aquifer Recharge and Aquifer Storage and Recovery DMWS – Drainage Mesh Wells System



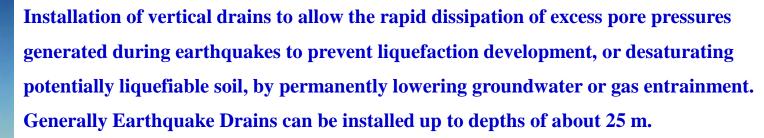
DMWS - Drainage Mesh Wells System

Provide the most economical and simple solution

Separation Distance



Stormwater Drainage Mesh Wells System Liquefaction Soil Improvement Wells System



Drainage Mesh Well sidewall special design, without gravel, and other non-woven filter material, mesh pipe anti-blocking.

liquefaction soil Layer "Sandy soil" combined with "high groundwater level" When a certain intensity of earthquake is shaken, it causes the phenomenon that sand particles are floating in the water.

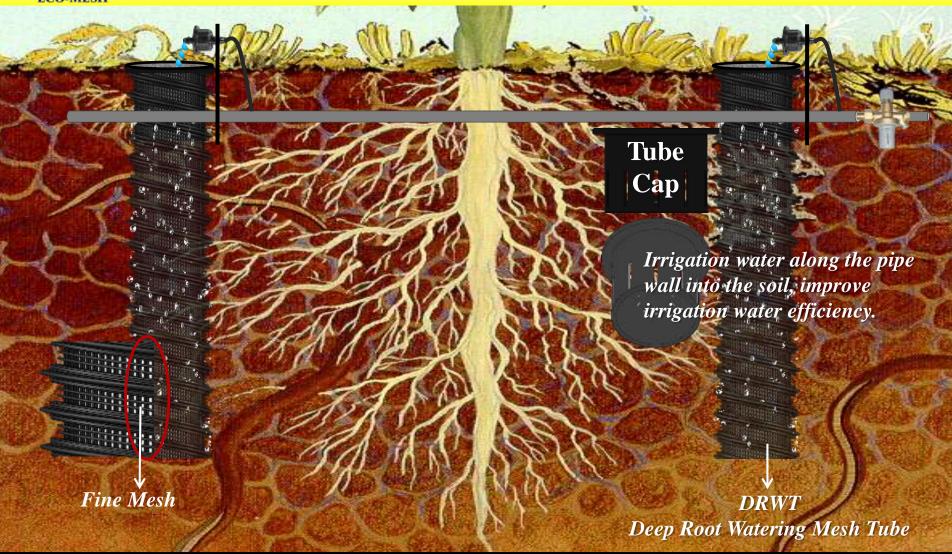
Will not liquefaction soil Layer

Vadose Zone

Aquifer



Root Aeration & Deep Root Tree Watering Tubes DRWT-Deep Root Watering Mesh Tube



DRWT - Deep Root Watering Mesh Tube enables vital water, oxygen, and nutrients to bypass compacted Soil and directly reach tree and shrub root zones to improve tree and shrub investment protection, Watering efficiency and landscape aesthetics through deep root growth and tree development.



Low Impact Development (LID)-Stormwater Management Irrigation Rain Garden

What Is a Underground Irrigation Rain Garden?

A rain garden is a landscaped area that collects, absorbs, and filters stormwater runoff from roof tops, driveways, patios, and other hard surfaces that don't allow water to soak in. Irrigation and drainage systems provide water detention, drainage and underground wicking irrigation. Rain gardens are sized to accommodate temporary ponding after it rains and are not meant to be permanent ponds. Simply put, rain gardens are shallow depressions that:

- Can be shaped and sized to fit your yard.
 - Are constructed with porous soil that allow water to be soaked in rapidly, treat runoff and support plant growth.
 - **Can be landscaped with a variety of plants to fit the surroundings.**
 - Can provide underground irrigation during the dry season.

Anatomy of a irrigation Rain Garden

INFLOW

GRADUAL SIDE SLOPES <10%

PONDING DEPTH (15~30cm) typical

TOP SURFACE OF PONDING AREA

OVERFLOW & IRRIGATION SYSTEM

MULCH LAYER

EXISTING SOIL

POROUS SOIL (15~30cm) typical

ARCHED MESH PIPE





Low Impact Development – Stormwater Management Green Infrastructure Program Rain Garden – Street Trees In Bioswale





The main purpose of the Trees In Bioswale

- 1. Collect stormwater from the road and store temporarily in the catchment tree swale to slow road runoff.
- 2. Place the Anti-Clog Mesh Pipes vertically to promote stormwater infiltration and retention.
- 3. Collect garbage from road runoff into the tree hole. It is easy to clean and able to avoid blocking the sewer.
- 4. The tree roots filter stormwater and reduce groundwater contamination.
- 5. The tree hole is easy to clean.
- 6. Anti-Clog Mesh Pipe provides soil ventilation and deep root irrigation to create a comfortable space for the plant growth.
- 7. Only partial excavation needed during construction. This is suitable for the old trees and new construction.
- 8. The construction is simple, easy, and cost-effective.

Anti-Clog Mesh Pipe provides the most simple and economical way to slow road runoff



Low Impact Development-Stormwater Management Green Infrastructure Program AMPS-Arched Mesh Pipe System

AMPS - Arched Mesh Pipe Underground Irrigation And Drainage System

Subsurface Irrigation by Capillary Action

Irrigation water through Arched Mesh Pipe into the soil, using soil capillary action, supply to the root cluster area. Save 50~80% irrigation water, fertilizer effect increase 40 %, reduction in irrigation manpower 60%.

Underground drainage

- ➤ Arched Mesh Pipe Exclude supersaturated soil water and high water table.
- Arched Mesh solve the problem of underground drainage pipe blocking without filter material and clog-resistant.
- ➤ Arched Mesh Pipe High efficiency drainage.







Green Infrastructure Program AMPS-Arched Mesh Pipe System Applications AMPS-Grass Grid Pavement

Mitigates Heating Island Effect \cdot Slow Runoff \cdot Retention \cdot Water Saving Irrigation and Drainage











Low Impact Development-Stormwater Management

Green Infrastructure Program

AMPS - Arched Mesh Pipe System-Applications



<u>Landscaping</u>
Underground Irrigation and Drainage



Parking Lot Driveway
Underground Irrigation and Drainage



Green Roof
Underground Irrigation and Drainage



Golf Course
Underground Irrigation and Drainage



Sportfield
Underground Irrigation and Drainage



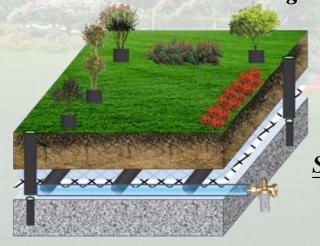
Agriculture

Underground Irrigation and Drainage

SMP - Square Mesh Pipe Water Harvesting Self-Watering Wicking System Water Harvesting From Green Roof + Blue Roof + Wicking Beds



All Features in One System: Green Roof + Blue Roof + Wicking Beds 20cm height Square Mesh Pipe can store 200mm rainfall



Green Roof

AMP - Arched Mesh Pipe

Sub-Irrigated Raised System





GMP - Geo Mesh Pipe Horticultural Application SMP - Square Mesh Pipe Vertical Vegetation Living Wall





Low Impact Development (LID)-Stormwater Management

Green Infrastructure Program

GMP - Geo Mesh Pipe-Design and Installation Data

GMP Materials Introduction.pdf

Catalog-GMP.pdf

GMP-Structure.pdf

GMP Specifications.pdf

GMP-List Price.pdf

DMP Profile.pdf

DMP Specifications.pdf

DMP-List Price.pdf

DMP with Joints Specifications.pdf

DMP with Joints-List Price.pdf

DMP Guide Manual.pdf

DMW-Introduction.pdf

Flipchart-DMWS.pdf

DMW-(WSO)-Specifications.pdf

DMW-(WSO)-List.pdf

DMWS-Guidance Manual.pdf

AMP Profile.pdf

AMP Description-mp4

AMP Specifications.pdf

AMP-List Price.pdf

AMP with Joints Specifications.pdf

AMP with Joints-List Price.pdf

AMP Guide Manual.pdf

RCM-Introduction.pdf

RCM Introduction-mp4

RCM-Unique Characteristics-mp4

RCM-Specifications.pdf

RCM-List Price.pdf

RCM-Guide Manual.pdf

Manhole Cover Specifications.pdf

Manhole Cover-List Price.pdf

LWT-Introduction.pdf

LWT-Design.pdf

Flipchart-LWT.pdf

LWT-Specifications.pdf

LWT-List Price.pdf

AMPS-Introduction.pdf

AMPS-mp4

AMPS-Specifications.pdf

AMPS-List Price.pdf

AMPS-Grass Pavement Introduction.pdf

AMPS-Grass Pavement-mp4

Grass Grid Specifications.pdf

Grass Grid-List Price.pdf

AMPS-Sportfield Description-mp4

AMPS-Plants Environment .pdf

DRWT-Introduction.pdf

DRWT-mp4

Catalog-DRWT.pdf

DRWT-(MSO)-Specifications.pdf

DRWT-(MSO)-List Price.pdf

Vertical Greening-Introduction.pdf

Vertical Vegetation Living Wall-mp4

SMP-Green Wall Install Guide-mp4

Green Roof-Introduction.pdf

Green Roof-mp4

SMP-Specifications.pdf

SMP-List Price.pdf