Holistic Flood Proof City Design Holistic Flood Proof City Design Instantaneous Flood Water Draining System Theory

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Abstract

In this research manuscript, the author has presented a 'Holistic Flood Proof City Design' and a consequential 'Instantaneous Flood Water Draining System'.

Theory

Holistic Flood Proof City Design

One can note that in cities that are Frequently Prone to High Rainfall (Indexes) and/ or possible Flood Level River Storm Water Influxes from Neighbouring Regions because of being Geographically Situated at Ground Levels much lower than the Neighbouring Regions that are Frequently Affected by High Rainfall Indexes caused by way of Precipitation, one of them being Incessant Torrential Rains. Such Low Ground Levels Naturally Direct all Situationally Undesirable Waters from all such aforementioned Sources (around in addition to Rainfall Native to the Low Ground Level Region of concern) to get Logged in the Region of Low Ground Levels leading to undesirable Flooding.

One can note that such a situation can be remedied by designing a *System* that *Drains* and/ or *Diverts* such *Excess Waters* into the *Neighbouring Seas* and/ or *Oceans*. This can be achieved in the following two ways mentioned.

1. Optimal Network Of Syphonic Action Inducing Connect Units System

With respect to the Existing (maintained by the Local Meteorological Department Of The State) Toplogical Maps of Ground Levels of a given Region of concern and the Watershed Lineament Maps {these are the maps of the Graph of Tributaries (Branches Tree) of how Rain Water and/ or Excess Water takes a Natural Geographical Course on the Ground in its Inertia to meet the nearest River, Sea and/ or Ocean, down the Gravitational Potential Energy Gradient and Hydraulic Gradient available to it and because of the Local Critical Low Level Of the aforementioned Ground Levels along the aforementioned Natural Geographical Course represented by the Watershed Lineament Maps} One can Optimally Station a Critical Number Of Syphonic Action Inducing Units along the course of

such aforementioned Watershed Lineament Maps. Furthermore, such Syphonic Action Inducing Units can be operated by using Mechanical Batteries (see authors TRL on this) and/ or Mechanical and/ or Manual Work and/ or Electrical Work and/ or Energy. The Operation Chart of such Syphonic Action Inducing Units should be Designed Optimally which actually Slates for How Long of Duration of Time Each, Each of them should be *Operated* and at what *Capacities* they should be *Operated*. Furthermore, the Scatter Diagram of the Stationing (one can resort to Finite Element Model Testing And Model Validation for the Evaluation of the aforementioned Stationing Points and the Frequencies, Extent (Time) and Magnitude of Operation of the same, note however that, here the Problem involves the case of Optimizing Stationing Points, Discharge Capacities, Operation Times, Syphonic Action Inducing Units Inter-Distance(s) which are in turn Governed by the Least Critical Gradient(s) Of Hydraulic Nature to be Scaled by Any Two Syphonic Action Inducing Units such that the Hydraulic Gradient(s) thusly Scaled when Plotted form a sufficiently Smooth Curve for enforcing Minimal Hydraulic Losses} of the Syphonic Action Inducing Units should be Designed Optimally.

The Trick here is to Optimally Station the Syphonic Action Inducing Units Each of which Operate at a Certain Capacity such that the Syphonic Action Differential Along The Line Of Concern* is extended from the Source (Network of Syphonic Action Inducing Units Concern) to the Sink (nearest River and/ or Sea and/ or Ocean) and for as Long a Time as this Task of concern is to be Achieved Takes with respect to Optimality of Design Parameters already mentioned above.

Also, one can even *Direct* and/ or *Divert* such *Situationally Undesirable* Surplus Waters into a Reservoir of Concern, Natural and/ or Man-Made.

2. Instantaneous Flood Water Draining System Theory

For the case of *Cities* that have not been *Planned Complying* to the *Scheme* as slated in $\{1\}$ above, one can resort to the following method to *Mitigate* the *Adverse Effects* of a *Flood*.

After taking Proper Precautions to keep the Public affected by the Flood away from Flood Effect Mitigating Improvizing Engineering Efforts Zones one can first Install Local Pseudo-Caisson-Foundation(s) along the aforementioned Watershed Lineament Maps and can Design Engineer Water Canal Trenches Of Optimal Size (Width and Depth) up until the nearest available River and/ or Sea and/ or Ocean. Such an Engineering Design should be implemented taking not more than 24 hours to 48 hours of Time and should lead to Sufficient, Draining of Situationally Undesirable Flood Waters giving the Local Natives of the Region a Respite from this problem of Flooding.

Conclusion

One can note that when such an Aforemtioned Technology when put into Practice will help any State of concern to Optimize the Benefits of Situationally Excess Precipitation and turn Nature's Fury Into Nature's Blessing.

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Moral

One's Right And Positive Interpretation With Enough Conviction Of Any Situation Of A Concern That Is Supposedly Interpreted Negatively By A Large Population Still Brings Positive Results To The One Exercising Right And Positive Interpretation Of The Situation Of Concern. This Is How The Universal Wave Equation Of The Universe Works. This, Inherently Is The Grandest Beauty Of Our Great And Vast Universe That Fairly Vests All The Power In Our Selves, That Is, In Our Interpretation.

Therefore,

Positive Interpretation Is Godliness.