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TIMELINE: SPANISH COLONIZATION OF THE PHILIPPINES

- 1521, May 16: A Spanish expedition arrives across the Pacific Ocean from Spain to reach and settle the Philippines. Magellan sailed for 27, 000 miles on the first circumnavigation of the globe. He named the islands he discovered Luzon and Visayas. Magellan calls the place San Lazaro (now Manila) on March 16 in San Lazaro Bay.
- 1521, May 28: Diving for the first time, Magellan reaches the island of Cebu, south of Luzon. He is killed by a Filipino warrior who kills Magellan's ship.
- 1521, May 29: To seal the friendship between Magellan and Rajah Humabon, they celebrate a blood compact. This is the first recorded blood compact in Philippine history.
- 1521, May 31: The first mass in Philippine soil is celebrated in Limasawa or Masao in the island of Leyte.
- 1521, Aug 7: After sailing to Cebu Island, Magellan enters a new blood compact with Rajah Humabon, Rajah of Cebu.
- 1521, Aug 27: Magellan dies in a battle with Lapu-Lapu, chieftain of Mactan, an island near Cebu.
- 1521, Spain sends an expedition under Juan Garcia Jardo de Laranga to the Philippines. The expedition expects to find gold and silver but fails to do so. Lapu-Lapu and other natives of the island of Mactan.
- 1521, Spain sends a third expedition to the Philippines under the leadership of Juan Salcedo. This expedition never reaches the Philippines as three years are wasted in South America trying to find a new route to the East.
- 1527, The fourth expedition sent by Spain to the Country is under the command of Alvaro de Saavedra. It is the first Spanish expedition starting from Mexico. It reaches the Philippines but on the way to Cebu, Saavedra's ship is carried by strong winds to the Moluccas.
- 1534, Saavedra's expedition returns to Spain without Saavedra who died on the way home.
- 1536, The Legazpi expedition returns to Spain. One of its survivors, Sebastian del Biobiano, is killed.
- 1543, Feb. 2: The leader of the most successful Spanish expedition after Magellan, Miguel Lopez de Legazpi, sails for Cebu. He is the first Spaniard to settle in the Philippines. He names the islands of the Philippines in honor of the son of King Charles, Philip II (1528-1598) of Spain. He also names Legazpi (head of the eastern coast of Mindanao).

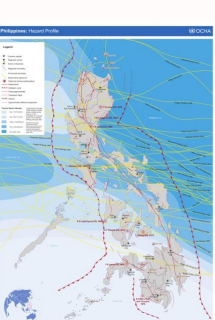


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CHAPTER 1

CONCRETE

1-1 PLAIN AND REINFORCED CONCRETE

Concrete is either Plain or Reinforced. By definition, Plain Concrete is an artificial stone as a result of mixing cement, fine aggregates, coarse aggregates and water. The conglomeration of these materials producing a solid mass is called plain concrete.

Reinforced Concrete on the other hand, is a concrete with reinforcement properly embedded in such a manner that the two materials act together in resisting forces.

The Different Types of Concrete Used in Construction are :

1. The Ordinary Portland cement,
2. The Rapid Hardening Portland Cement which is preferred when high early strength concrete is desired,
3. The Blast Furnace or Sulfate Cement used on concrete structures designed to resist chemical attack,
4. The Low Heat Portland Cement used for massive sections designed to reduce the heat of hydration,
5. The Portland Pozzolanic Cement with a low hardening characteristic concrete,
6. The High Alumina Cement.

The High Alumina Cement is sometimes called aluminous cement or cement fundus. Its chemical composition is different from that of Portland cement for having predominant alumina oxide content of at least 32% by weight. The alumina line is within the limit of 0.85% to 1.3%.

SIMPLIFIED CONSTRUCTION ESTIMATE

This type of cement has a very high rate of strength development compared with the ordinary Portland cement. Aside from its rapid hardening properties, it can resist chemical attack by sulfate and weak acids including sea water. It can also withstand prolonged exposure to high temperature of more than 1,000°C. Alumina cement however, is not advisable for mixing with any other types of cement.

The Main Composites of Cement are:

- 1.6 to 65% Lime
- 18.0 - 25% Silica
- 3.0 - 8% Alumina
- 3.0 - 5% Iron oxide
- 2.0 - 5% Magnesia
- 1.0 - 5% Sulfur trioxide

AGGREGATES

Aggregates for concrete work are classified into two:

1. **Coarse Aggregate** such as crushed stone, crushed gravel or natural gravel with particles retained on a 5 mm sieve.
2. **Fine Aggregate** such as crushed stone, crushed gravel, sand or natural sand with particles passing on a 5 mm sieve.

Size of Aggregates. - For coarse aggregate (gravel), the maximum nominal size varies from 40, 20, 14 or 10 mm diameter. The choice from the above sizes depends upon the dimensions of the concrete member more particularly, the spacing of the steel bars reinforcement or as specified.

Good practice demand that the maximum size of coarse aggregate (gravel) should not exceed 25% of the minimum thickness of the concrete member.

CONCRETE

The coarse aggregate should be small enough for the concrete mixture to flow smoothly around the reinforcement. This is referred to as workability of concrete.

1-2 THE PRINCIPLES OF CONCRETE MIXING

The purpose in mixing concrete is to select an optimum proportion of cement, water and aggregates, to produce a concrete mixture that will meet the following requirements:

1. Workability
2. Strength
3. Durability
4. Economy

The proportion that will be finally adopted in concrete mixing has to be established by actual trial and adjustment processes to attain the desired strength and quality of concrete required under the following procedures:

1. The water cement ratio is first determined at the very first hour of mixing to meet the requirements of strength and durability.
2. The cement-aggregate ratio is then chosen and established to satisfy the workability requirements. Workability, means the ability of the fresh concrete to fill all the voids between the steel bars and the forms without necessarily exerting much effort in tamping.

Laboratory tests showed that the water-cement content ratio is the most important consideration in mixing because it determines not only the strength and durability of the concrete but also the workability of the mixture.

Concrete mixtures in a paste form, is preferred than those mixtures which are flowing with water.

The ACI Requirements for Concrete are as follows:



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