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TITLE: Civil Engineering Technology 2
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Assignment Topics for Reference

1. Replacement of a drainage pipe of 100 meters long (300 mm diameter) that is 5 meters underground.
2. Beach re-generation with very low environmental impact (Swansea Bay).
3. Alternatives for the construction of vertical seawalls in the Swansea Bay.
4. Analysis of the existing seawalls in the Swansea Bay.
5. Groynes installation along the Swansea Bay for beach regeneration.
6. Dredging the docks of Swansea Marina for cleaning.
7. Study of technical aspects for the construction of a small dam at any point of the river Tawe for electricity generation.
8. Water reservoir for a district of 300 houses. Dimensioning and construction.
9. Construction of a new highway with flexible pavement.
10. Construction of a new highway with rigid pavement.
11. Analysis of defects, causes and repairing of pavement in one specific road/street.
12. Testing techniques for road pavement.
13. Analysis of water drainage for High Street, Castle Street and Wind Street.
14. Offshore wind turbines: Steel mono-pile foundation and transition piece installation
15. Land reclamation and construction works on a submerged area of land near Cardiff bay
16. Rising mains replacement for multi-storey development project
17. Repair and replacing sewer lines 2m below ground in a built-up area
18. Construction of a steel portal framed building
19. Retaining wall replacement scheme
20. Culvert replacement scheme