

## OBJECTIVE

Dedicated professional seeking a Senior Civil Engineer role to contribute expertise in structural design, project coordination, and construction supervision for large – scale infrastructure projects, delivering sustainable and cost-effective engineering solutions.



## JOEL B. CAPITO

### SENIOR CIVIL ENGINEER

Professionally and academically qualified Civil Engineer with 20 years of vast experience within the Philippines and the Kingdom of Saudi Arabia. Expert in Asphalt, Concrete, Soil, and aggregate materials testing, geotechnical investigation. Experienced in the field of technical supervision associated with the construction of public and private assets, such as Roads and Bridges, Sewage water treatment, and treated sewage effluent (TSE), Tunnels and micro-tunnelling, Irrigation systems, and pumping stations, Potable water network (Rabigh), Airport, Highways, and renewable energy projects. Fully knowledgeable in the preparation of site testing standards and requirements, project specifications, Drawings, AASHTO, ASTM, BS EN, ACI, AISC, and Precast Institute (PCI)

## CONTACT

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## EDUCATION

UNIVERSITY OF MINDANAO  
Bachelor of Science in Civil  
Engineering  
2003

## SKILLS

- Structural Design (ETABS, PROTA Software)
- Risk Management
- Project Management
- AutoCADD

## EXPERIENCE

### CIVIL ENGINEER

ILF CONSULTING ENGINEERS  
FEB.23,2024 – MARCH 05,2026

PROJECT: **Construction of TSE Network for Green Riyadh Program**

CLIENT: ROYAL COMMISSION RIYADH CITY

LOCATION: Riyadh, Saudi Arabia

#### Project Brief Description:

The Royal Commission of Riyadh City will implement projects to transform Riyadh into a green oasis as part of the 2030 vision. The program has numerous projects, and ILF Consulting Engineers is one of the Project Management Consultants for the TSE project, which primarily involves constructing a pipeline that traverses city roads, concrete reservoir tanks, and Providing Engineering services.

#### Role in the Project:

- Review drawings, implement project specifications, and scope of works.
- Ensure that all non-conformance reports (NCRs) are undertaken and comply with the specification as per the RCRC requirement before turning over.
- Review prequalification submittals
- Review Method Statements and Inspection Test Plan
- Review Material Approval request
- Conduct site visit (Work Inspection Request) for the pipeline route, verification of survey benchmarks, excavation level,

pipe laying, pipe backfilling, and compaction test for sub-base, base coarse in preparation of the road asphalt application.

- I supervise the asphalt road works of 28 km total length along the Riyadh City streets and across major highways in the West Ring Road in Riyadh.
  - Supervised the geotechnical investigation of the proposed location of the concrete water reservoir in Dar Al Badiyah and Manfouha pumping station.
  - Witnessed the Asphalt and concrete trial mixes at the plants, Sampling and testing of construction materials.
  - Review and inspect the Material Request (MIR)
  - Issues NCRs for irregularities found at the site during daily inspection.
  - Support the Quality manager for all the reports ne needed.
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## **RISK MANAGER/ CIVIL ENGINEER**

ILF CONSULTING ENGINEER

January 19, 2019 – Feb 22 .2024

### **PROJECT: Construction of Yanbu- Madinah Water Transmission Phase 4**

CLIENT: Saline Water Conversion Company

LOCATION: Yanbu, Saudi Arabia

#### **Project Brief Description:**

Saline Water Conversion Company (SWCC) will construct 12 water steel tanks and 8 pumping and tap-off stations. The design capacity ranges from 258,948 m<sup>3</sup>/day to 550,000m<sup>3</sup>/day. It also has 233 Km of pipeline with a diameter ranging from 68 inches to 84 inches that will supply water from Yanbu to Madinah. All station buildings are constructed using pre-stressed precast elements such as walls and slabs.

#### **Role in the Project:**

- Review Method of Statements
- Review Inspection Test Plan
- Review drawings, project specification, and scope of work for the identification of Interface works.
- Review Material Approval requests
- Review post-tension slab design calculation, drawings, Method of Statement, and ITPs submitted by the precast factory from Rabigh
- Quality plant visit of the precast factory
- Attend daily Request for Inspection of the ground improvement (Dynamic Compaction), foundation layout, excavation, reinforcement laying, concrete pouring, waterproofing, steel structure erection, precast concrete installation and grouting, finishing, painting, and civil commissioning
- Review road design and drawings inside the plant, approximately 2km in total length
- Evaluates Risk Management processes and procedures submitted by the contractor.
- Identify risks, evaluate, quantify, mitigate, and monitor the risk of the project.
- Keeping a record of all Lessons learned from the project
- Coordinate with the contractor for interface work in providing the required documents.
- Attend meeting with client and contractor.
- Issues NCRs for irregularities found at the site during daily inspection.

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**RESIDENT ENGINEER**  
ILF CONSULTING ENGINEER  
March 2018 – Dec. 2018

PROJECT: **Due diligence for the constructed SWCC steel water tanks**

CLIENT: Saline Water Conversion Company

LOCATION: Abha, Saudi Arabia

**Project Brief Description:**

Saline Water Conversion Co., Abha region, requires supervision of the Contractor under the warranty period to rectify the ground settlement of two 80,000 m<sup>3</sup> steel water tanks in accordance with the proposed corrective actions.

**Role in the Project:**

- Review Method of Statement.
  - Review Inspection Test Plan.
  - Close coordination with the Third-party Geotechnical experts.
  - Review and record corrective results.
  - Review of post-tensioned soil nailing anchors design calculation, Drawings, Method of Statement, and ITPs.
  - Witness Request for Inspections (RFI's).
  - Conduct previous record investigation and verifications
  - Prepare a comprehensive technical report of the findings to be submitted to the client.
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**CIVIL ENGINEER**  
ILF CONSULTING ENGINEER  
July 2017 – March 2018

Project: King Abdullah Economic City, Industrial Valley 3, Parcel B, Infrastructure Construction Supervision

CLIENT: EMAAR Realty

LOCATION: Rabigh, Saudi Arabia

**Project Brief Description:**

The project scope is the supervision of the construction of 2.25 km roads, drain channels, sewage and storm pipelines, manholes, power lines, and telecommunication

**Role in the Project:**

- Review Quality Control Plan and Inspection Test Plan
  - Review Method of Statement
  - Conduct site inspection and attend the Request for Inspection (RFIs) of road preparation and construction of sub-base coarse, base coarse, asphalt base coarse, and wearing coarse.
  - Supervise and witness the field test, including Sieve Analysis, Atterberg Limit, Proctor Test, Specific gravity, Absorption, California Bearing ratio (CBR), Abrasion, Compressive Test of cubes/ cylinder, Slump test, Sand Equivalent, Field Density Tests, Evenness, Plate Bearing Test, Borehole, Marshall stability test, Coring extraction, Thermoplastic painting, Paint thickness, Flakiness & Elongation Index.
  - Supervise pipe and manhole excavation, reinforcement laying, concrete pouring, and waterproofing works.
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## **CIVIL ENGINEER**

ILF CONSULTING ENGINEER

Feb. 09, 2015 – July 2017

Project: Al Haer Wastewater Conveyor Project, Manfouha – Al Haer

CLIENT: National Water Company

LOCATION: Riyadh, Saudi Arabia

### **Project Brief Description:**

The project consists of two (2) tunnels, a total of 11.7 kilometers, and has a diameter of 3.0 meters. The tunnel was constructed of more than 66,000 pre-cast fiber reinforced tunnel lining segments using a Double-shield Tunnel Boring Machine. The other component is the construction of the open trench pipeline for 3.0 meters diameter High Density Polyethylene (HDPE) and the construction of the Vortex shaft. The project will connect to the existing wastewater treatment facility at Al Haer STP Plant.

### **Role in Project:**

- Conduct a survey verification of the benchmark
- Verify survey of tunnel and pipeline alignment
- Witness geotechnical investigation (Borehole)
- Review structural design calculations, drawings
- Supervise RC tanks (Inlet, Aeration tanks, Digester tank, Clarifier tanks, Sludge holding tanks, and chlorination tanks)
- Supervise sewage holding tank waterproofing works (membrane/epoxy)
- Supervise water leak test of sewage holding tanks
- Site supervision of tunnel excavation using double shield TBM
- Open trench excavation for HDPE pipe laying
- Supervision of HDPE butt fusion welding, Asphalt Road works, Steel reinforcement inspection, and concrete works, for Tunnel segments lining.
- Document review (Material, ITPs, Method of Statement, Drawings, Mix Design for Asphalt and Concrete)
- Attend Factory Acceptance Test for HDPE pipes
- Supervision of the vortex shaft construction.
- Supervised precast fiber-reinforced tunnel lining segment
- Supervise and monitor tunnel segment lining installation and grouting
- Periodic witness for FAT in Union Pipes Inc. (Abu Dhabi factory)
- Approve and render quality check single pre-cast tunnel lining segment.
- Take immediate corrective action to ensure compliance and conformance to the contract requirements and to eliminate defects.

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## **CIVIL ENGINEER**

Al Yamama Company for Trading & Contracting

April 2012- September 2014

Project: Fly-Over Bridge along King faisal Road (Coastal road) King Abdulaziz road (Port road) Project

CLIENT: Dammam Port Authority

LOCATION: Dammam, Saudi Arabia

### **Project brief description:**

The project comprises four (4) parallel viaducts that are designed to ensure that the two (2) central decks shoulder the main traffic coming in both directions from the coastal road (North and South) and that the two adjacent ramps provide access to the Port Road. The bridge has three (3) lanes except for the two ramps, which have only two lanes. The deck width is consequently 12.61m and 10.36m, respectively. The deck features a constant height of 3.0m along its entire length. 17 segments make up each span, typically measuring 55.0m span, and segments are 3.22m long

**Scope:** Engineering, Procurement, and Construction of viaduct bridge crossing along King Abdulaziz underpass and the Saudi Railway

**Role in Project:**

- Review and implement the approved shop drawing, project specification, codes, and standards adopted in the project to avoid repetition of work that will cause cost and time overrun.
- Daily alignment of manpower in relation to the weekly lookahead schedule.
- I am the engineer responsible for the erection of the 4-unit bridge segment casting moulds.
- Prepare segment casting schedule according to the segment launching sequence.
- Preparing a schedule for the bridge segment reinforcement assembly jigs according to the casting sequence.
- Supervise the segment concrete casting works, steam curing process, and demolding.
- Supervise transportation and stacking of the segment at the precast yard storage.
- Supervising the construction of the foundation bored piles. Pile caps, abutments, piers, and pier heads.
- Conduct pile dynamic analysis testing and pile static load test.
- Assist Freysinnet in launching the bridge segments
- Supervising the PT works during the erection of segments
- Supervising the post-tensioning of the erected bridge segments.
- Supervising the grouting of the post-tensioned tendon
- Supervising the installation of the permanent bridge bearings and bearing grouting.
- Supervise the road construction of the bridge deck, a total length of 2.3km.
- Supervise the installation of the bridge expansion joints
- Preparing daily and weekly reports to the Construction Manager.
- Implement, supervise, and maintain all document control of records and tests.
- Take immediate corrective action on the non-conformance report.

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**CIVIL ENGINEER**

Al Yamama Company for Trading & Contracting  
January 2011 – April 2012

Project: Construction of North Park Office Complex 10.5 MW  
Solar parking  
CLIENT: Saudi Aramco  
LOCATION: Dammam, Saudi Arabia

**Project description:**

The Saudi Aramco North Park Office Complex (Al Midra Tower) has to build a 10.5 Megawatts Parking. The largest Photovoltaic Module-Covered Parking Lots in the Kingdom. The project will accommodate around 5000 parking lots it is also estimated to install approximately 120,000 CIS thin-film Photovoltaic modules. The project will power the 13 floor Office building (Al Midra Tower) daily.

**Role in the Project:**

- Managing material delivery from the Pre-Engineered Building manufacturer
  - Supervise parking layout survey, foundation excavation, rebar installation, and pouring concrete of the foundation.
  - Review drawings and specifications before the erection of the steel structure frames.
  - Coordinate with the sub-contractor before the installation of the solar panels onto the structures.
  - Raise RFIs to the Quality department for work inspection
  - Prepare a weekly progress report to the Project Manager.
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**CIVIL ENGINEER**

Vicente T. Lao Construction  
May 2008 – December 2010

Project: Construction of Brgy. Kapayawi Bridge  
CLIENT: Department of Public Works and Highways  
LOCATION: Kapayawi, Midsayap North Cotabato, Philippines

**Project brief description:**

The company is awarded a bridge project on the West coast of Mindanao, which was damaged by a severe flash flood during a heavy typhoon. The bridge spans 117 meters, constructed by a Prestress Pre-cast Girder and a cast-in-situ carriage way. Reconstruction works of the damaged piers and reinstatement of the damaged apron

**Role in project:**

- Review Project contract before the Notice to Proceed
- Manages day-to- day operation of the project execution
- Review project Bill of Quantities and prepare material take off.
- Coordinate with the DPWH engineers for any technical inquiry and develop a solution to any problem arises.
- Prepare and submit a concrete mix design for DPWH approval
- Prepare billing documents and other required documentation for the project.
- Ensuring standard safety procedures at all times throughout the lifecycle of the project.
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- Prepare project update status and financial report to the Project Manager.

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## **CIVIL ENGINEER**

Comval Tropical Fruit Inc.(Dizon Group of Companies)

July 2005 – May 2008

Project: Construction of a processing plant and semi-automated irrigation and fertilization project

CLIENT: Dizon Group of Companies

LOCATION: Babag, Davao de Oro, Philippines

### **Project brief description:**

The company is a farm produce exporter and has around 1600 hectares of farmland that requires multiple construction projects across multiple areas, such as processing plants, farm transportation systems, and irrigation systems.

### **Role in project:**

- Design and construction of processing plants
- Manages day-to- day operation of the project execution
- Prepare material take off, requisition, and procurement
- Prepare documentation requirements for permit application
- Prepare billing documents and other required documentation for the project.
- Ensuring standard safety procedures at all times throughout the lifecycle of the project.
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- Prepare project update status and financial report to the Project Manager.

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### Reference:

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