Ludlow Road

Clients: E. Madill, Atlas Shrugged Holdings Ltd.
Projected Capital Cost: $6,000,000
End Date: February 2023
Location: Ladysmith, BC

Industry Segment: Building development

Key Team Members
Mark Warbrick (Project Manager)
Kailen Elander (Project Engineer)
Mike Shepherd (Construction)

Challenges:

- Steep slopes associated with the site posed geographical challenges
- Liaising with a wide range of consultants required meticulous coordination
- Determining vehicle movement to ensure a functional loading bay design

Solutions:

- Grading and building were optimized to achieve a cut-fill balance
- Access egress points were designed for the largest distribution vehicles to ensure safe vehicle movements to access loading bays
- Autoturn was utilized for precise vehicle movement analysis

Deliverables:

- 20,000 square feet 2-story office building including a warehouse
- Recessed outdoor loading bays with multiple access points

Newcastle Engineering was hired to work on a brand new 2-story office building and warehouse space spanning 20,000 square feet. The project included an outdoor loading bay with multiple access points, so the parking lot needed to be purposefully designed to allow a high volume of trucks to dock in and out without getting in the way of each other.

To do this, we used specialized software to map vehicle movements and turning points to design a streamlined system that minimizes downtime and allows drivers to easily enter and exit. Due to the steep surrounding slopes, extensive conceptual grading and earth works analysis were required to guarantee the site's safety. We collaborated with Geotechnical and Environmental consultants and architects to build a safe, efficient space designed for optimal industrial traffic flow to meet the logistical requirements of the client's office building.

"The parking lot and loading bay were a crucial part of this project, and I'm grateful to the Newcastle team for putting time and effort into designing a space that allows trucks to come and go without causing unnecessary congestion or hold-ups."

- Name, Role of company

200 meters
of road, pedestrian facilities and drainage upgrades

Multi-access
Loading bay

20,000 sq ft
Warehouse and office space

newcastleengineering.com | info@newcastleengineering.com | 250-756-9553

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