

# Regional Distribution Centre, Aldi Stores, Swindon

## Project Profile

**Client:** Aldi Stores

**Designer:** ATP (Ahammer  
Tritthart & Partner)

**Date:** May 07— Dec 08

**Value:** £7.5m



The groundworks, foundations, structural concrete, infrastructure and external works package for extensions and alterations to the existing warehousing facilities to create new chiller, freezer and cold handling facilities, together with a new office block, was negotiated with Aldi/ATP and followed the successful completion of 2 similar schemes in Neston, Wirral, and Atherstone, Warks. Early involvement in the design development process allowed us to work together with ATP and identify a number of alternative construction solutions which produced cost, risk and time saving and which were included in the final design.

The new two storey office building is 3,000m<sup>2</sup> (plan area) and the warehousing facilities (incorporating freezer, chiller and cold handling areas as well as plant maintenance and battery charging unit) were extended by 14,000m<sup>2</sup> allowing the existing building to be converted to warehouse use only.

The main work involved the following;

- Establishment of temporary vehicle and pedestrian site access road and footpath including security and wheelwash to allow uninterrupted operation of the existing facility
- 11,000m<sup>3</sup> of excavation for foundations including 9,750m<sup>3</sup> in rock
- Reinforced concrete foundations, column bases, base slabs, retaining walls, internal walls and suspended slabs to office and warehouse buildings including;
  - ◇ 25,700 m<sup>2</sup> of blinding,
  - ◇ 6991m<sup>3</sup> of foundations, column bases, ground slabs, ground beams and retaining walls
  - ◇ 1,590m<sup>3</sup> of suspended slabs on 'holorib' decking & formwork
  - ◇ 1200m<sup>3</sup> internal walls & staircases
  - ◇ Precision fixing of built-in structural steel mounting connections
  - ◇ Use of 1,285 tonnes of bar and mesh reinforcement
- Construct 3 in-situ reinforced concrete underground surface water retention tanks, 1,400 m<sup>3</sup> storage capacity
- Install 'twin wall' pre-cast walling system with integral reinforcement for walls up to 13m high. The high quality twin 60mm thick pre-cast units are positioned and propped allowing infill concrete placement to the remainder of the wall section. (5,020m<sup>2</sup> in 524 units)



# Regional Distribution Centre, Aldi Stores, Swindon (Cont'd)

## Project Profile

**Client:** Aldi Stores

**Designer:** ATP (Achammer  
Tritthart & Partner)

**Date:** May 07— Dec 08

**Value:** £7.5m



- Installation of foul and surface water drainage to new facilities including;
  - ◇ 670m of 150mm—450mm diameter sewer with 28 nr 1200mm dia manholes
  - ◇ 2 nr bypass interceptors and 1 grease trap
  - ◇ Includes diversion of existing drainage and maintenance of flows to allow construction of new facility
  - ◇ 1100m of 150mm perforated perimeter land drain
- Installation of 7,000 m of multiple ducting and 50 draw pits for new service supplies—Telecom, Gas, Water and Electric
- External works, roads and paving to new and existing facility includes;
  - ◇ Reconstruction of existing bituminous access road, 6,000m<sup>2</sup> include break out existing tarmac construction
  - ◇ Place 3,000m<sup>3</sup> of type 1 sub base to formations
  - ◇ Machine laid block paving to car park (2,500m<sup>2</sup>)
  - ◇ Grasscrete fire path to warehouse and office facility (700m<sup>2</sup>)
  - ◇ Concrete service yards (3,000m<sup>2</sup>)
  - ◇ 1,500m<sup>2</sup> footways in tarmac and paving slabs



On completion of the new office block and cold storage areas, various dismantling, refurbishment and new construction works were completed to the existing warehouse facility.

The success of the project was achieved by establishing and maintaining a close working relationship with both the construction management team and the other UK and European trade contractors. In addition our commitment to health & safety management has ensured that we had no accidents on the contract.

