



Turnkey - Distributed Antenna System (DAS) Network Buildings

AMERICAN TOWER CORP.

NASCAR Distributed Antenna System (DAS) Building Projects

- Daytona Speedway, Daytona, FL
- Chicagoland International Speedway, Joliet, IL
- Phoenix International Speedway, Phoenix, AZ

American Tower Corporation (ATC) signed an agreement to design and install DAS and other wireless infrastructure solutions at all 12 of International Speedway Corporation's (ISC) NASCAR motorsports facilities to enhance wireless signal strength and distribute radio capacity for customer use and general track operations during events. ISC selected American Tower due to its experience and proven solutions to help ISC overcome these challenges and enhance the fan experience at ISC facilities. American Tower was selected for its customized wireless infrastructure solutions that support wireless coverage and capacity. Oldcastle Infrastructure was contracted

by ATC to supply a portion of the customized wireless infrastructure solution. Oldcastle Infrastructure supplied the turnkey wireless equipment shelters known as Distributed Antenna System (DAS) Network Buildings for these projects.

PRECAST SOLUTION

Contracted to manufacture and provide comprehensive turnkey services for the speedway (DAS) Network Buildings, Oldcastle Infrastructure provided a 12' x 28' DAS Equipment shelter for the Daytona Speedway; a two piece, 42' x 24' DAS Equipment Shelter for the Phoenix International Speedway and three (3) DAS Equipment Shelters for the

"This significant award, to provide turnkey shelter solutions, once again validates Oldcastle Infrastructure as a significant market leader in the shelter industry, offering a combination of innovative technology, manufacturing skill and comprehensive turnkey services, while above all improving the customer experience for clients who choose to partner with Oldcastle Infrastructure"

John Albert, Oldcastle Infrastructure Director of Sales for Shelter Solutions.

DESIGN & CONSTRUCTION TEAM

General Contractor

American Tower Corporation (ATC)

Owner

ISC. NASCAR

Contract Amount:

\$249.345

Precaster

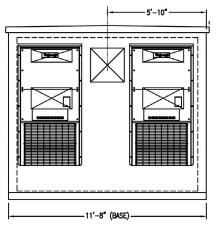
Oldcastle Infrastructure

Manufacturing Facility

Oldcastle Infrastructure Newnan, GA







EXTERIOR "B" WALL

Chicagoland International Speedway - (1) 12' x 28' DAS Equipment Shelter and (2) two 12' x 20' DAS Equipment Shelters. Oldcastle Oldcastle Infrastructure's total turnkey services offered the client single vendor responsibility for the DAS Equipment Shelters from installation of all electrical, environmental systems, alarms, lighting, on-site delivery and site construction, zoning, permitting and foundations, in addition to on-site architectural enhancements.

DAYTONA SPEEDWAY

Daytona, FL

SCOPE OF WORK

Precast Structure

A. Structure Engineering Detailed engineering:

Detailed drawings Drawings:

- B. Oldcastle Model RCS11828 precast shelter building
- C. Design and Permitting
- D. Project Management and Site Supervision: Manage the design, budget, schedule and quality on the shelter project
- E. On-Site Supervision: Manage field activities, coordination of Oldcastle provided trades and quality assurance of Oldcastle provided trades
- F. Testing: Field Testing of Oldcastle provided Services. Oldcastle start-up and function tested the shelter electrical and HVAC

Precast Building

Exterior Finish (wall):

Exterior Finish (roof): Insulation (walls): Insulation (ceiling):

Interior Finish (walls & ceiling): Interior finish (floor):

Interior finish (base):

Door:

Door Frame:

Door Closer:

Door Key Box: Entry Panels:

Washed Exposed Aggregate Sealed w/ two coats Thorosheen

Sealed with two coats of Dura Cool R-11, Rigid board type with foil facing R-22, Rigid board type with foil facing

½" Tk. moisture board finished VCT Tile, 12"x12" Square 4" Rubber base / Color: Gray

4'0" x 7'0", 16ga. Heavy Duty steel galvanized

primed & painted 4'0" x 7'0" 14ga. Heavy Duty steel galvanized

primed & painted

Hydraulic closer with hold open feature on the arm.

Pick plate / Lock Guard

Heavy Duty cast box for key storage with combo lock (4) 24" x 24" Blank plates covering wall openings

(primed & painted)

Power and Electrical

Receptacles:

Receptacles:

HVAC Unit: **HVAC Grille:**

HVAC Grille:

Alarm Box:

Generator Receptacle:

Main Distribution Panel: Surge Suppression:

Disconnect: 200A, 1Ø, 120/240V, Exterior Mounted

Fused Disconnect Switch

Transfer Switch: 200A. 10, 120/240V. Exterior Mounted

Manual Transfer Switch

200A, 1Ø, 120/240V, Appleton Generator Receptacle

200A. 10. 120/240V. 42 Space Panel

AC Data B82XXR

(6) 20A. 10. 125V. Interior Wall Mounted Convenience

(1) 20A, 1Ø 125V, Exterior Wall Mounted GFIC

(2) 5 Ton, 60,00btu, Wall mounted units with 5kW Heat strip

(2) Wall mounted adjustable supply grilles (2) Wall mounted adjustable return grilles

12" x 10" x 6" Deep hinge cover box with back plate Power Fail Alarm; HVAC Fail Alarms; High Temp Alarm;

Low Temp Alarm; Smoke Alarm

Fluorescent light fixtures (8) with acrylic lens cover; Incandescent Exterior light fixture mounted on

back box, photo-cell/motion sensor control

Exit fixture w/illuminated sign Emergency:

90 LF Cable Ladder: 12" Wide

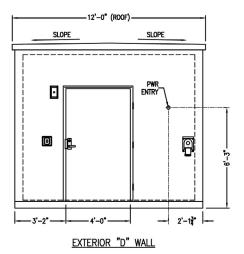
5 lb. CO2 Wall Mounted Fire Extinguisher:

Oldcastle Infrastructure provided turnkey deployment of a 12' x 28' DAS Equipment shelter. The 12' x 28' RCS Design shelter was engineered and manufactured by Oldcastle Infrastructure for seismic zone: 50% G. The outside dimension is 28' Long x 11'8" Wide x 10-4' High and the finished inside dimension is 27' Long x 10'8" Wide x 9" high. The project included total outfitting of the shelter from installation of all electrical, environmental systems, alarms, lighting and on-site delivery and site construction, in addition to on-site architectural enhancements.









CHICAGOLAND INTERNATIONAL **SPEEDWAY**

Joliet, IL

SCOPE OF WORK

Precast Structure

- A. Structural Engineering: Detailed engineering & Detailed drawings
- B. Oldcastle Model RCS11828 and (2) RCS11520 precast shelter buildings
- C. Design and Permitting
- D. Project Management and Site Supervision: Manage the design, budget, schedule and quality on the shelter project
- E. On-Site Supervision: Manage field activities, coordination of Oldcastle provided trades and quality assurance of Oldcastle provided trades.
- F. Testing: Field Testing of Oldcastle provided Services. Oldcastle start-up and function tested the shelter electrical and HVAC.

Precast Buildings

Exterior Finish (wall): Exterior Finish (roof): Insulation (walls): Insulation (ceiling): Interior Finish (walls & ceiling):

Interior finish (floor): Interior finish (base):

Door: Door Frame: Door Closer:

Door Key Box: Entry Panels:

Power and Electrical

Disconnect: Transfer Switch: Generator Receptacle: Main Distribution Panel: Surge Suppression: Receptacles:

Receptacles: HVAC Unit:

HVAC Grille: HVAC Grille:

Alarm Box:

Washed Exposed Aggregate Sealed w/two coats Thorosheen

Sealed with two coats of Dura Cool R-11, Rigid board type with foil facing R-22, Rigid board type with foil facing ½" Tk. moisture board finished VCT Tile, 12"x12" Square 4" Rubber base / Color: Gray

4'0" x 7'0", 16ga. Heavy Duty steel galvanized primed & painted 4'0" x 7'0" 14ga. Heavy Duty steel galvanized primed & painted Hydraulic closer with hold open feature on the arm. Pick plate / Lock Guard

Heavy Duty cast box for key storage with combo lock (4) 24" x 24" Blank plates covering wall openings (primed & painted)

200A, 1Ø, 120/240V, Exterior Mounted Fused Disconnect Switch 200A, 1Ø, 120/240V, Exterior Mounted Manual Transfer Switch

200A, 1Ø, 120/240V, Appleton Generator Receptacle 200A, 1Ø, 120/240V, 42 Space Panel

AC Data B82XXR

20A. 10. 125V. Interior Wall Mounted Convenience

20A, 10 125V, Exterior Wall Mounted GFIC

5 Ton, 60,00btu, Wall mounted units with 5kW Heat strip

Wall mounted adjustable supply grilles Wall mounted adjustable return grilles

12" x 10" x 6" Deep hinge cover box with back plate Power Fail Alarm; HVAC Fail Alarms; High Temp Alarm;

Low Temp Alarm; Smoke Alarm

Fluorescent light fixtures with acrylic lens cover noandescent Exterior light fixture mounted on back box,

photo-cell/motion sensor control

Exit fixture w/illuminated sign Emergency:

70 LF Cable Ladder: 12" Wide

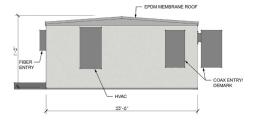
5 lb. CO2 Wall Mounted Fire Extinguisher:

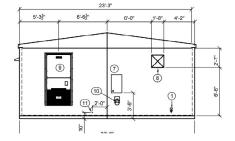
Oldcastle Infrastructure Provided Turnkey Deployment of (3) Three Shelters.

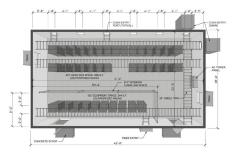
One is a 12' x 28' DAS Equipment shelter. The 12' x 28' RCS Design shelter was engineered and manufactured by Odcastle Infrastructure for seismic zone: 50% G. The outside dimension is 28' Long x 11'8" Wide x 10-4' High and the finished inside dimension is 27' Long x 10'8" Wide x 9" high.

The other two are 12' x 20' DAS Equipment shelters. The 12' x 20' RCS Design shelters were engineered and manufactured by Odcastle Infrastructure for seismic zone: 50% G. The outside dimension is 20'0" Long x 11'6" Wide x 10'4" High and the finished inside dimension is 19'0" Long x 10'6" Wide x 9'0" high. The project included total outfitting of the shelter from installation of all electrical, environmental systems, alarms, lighting and on-site delivery and site construction, in addition to on-site architectural enhancements.









PHOENIX INTERNATIONAL SPEEDWAY

Phoenix, AZ

SCOPE OF WORK Precast Structure

- A. Structural Engineering: Detailed engineering: Detailed drawings
- B. Oldcastle Model RCS2442DW Two Piece Precast Reinforced Concrete Building
- C. Design and Permitting
- D. Project Management / Site Supervision: Manage the design, budget, schedule and quality on the shelter project
- E. On-Site Supervision: Manage field activities, coordination of Oldcastle provided trades and quality assurance of Oldcastle provided trades.
- F. Testing: Field Testing of Oldcastle provided Services. Oldcastle start-up and function tested the shelter electrical and HVAC
- G. Building Foundation: 2' wide strip footing, up to 1' above grade and as required below grade for frost. Includes necessary back fill. 174-LF
- H. Stoop(s): 5' x 8' Concrete Pad (Precast or Poured In Place) 2/EA
- I. Compound Stone: 4" of stone cover within 5' perimeter of building 10-CuYd
- J. Fabric: Landscape fabric/weed barrier under compound stone 800-SF
- K. Pipe Bollards: 8" Dia. Sch 40 Steel Pipe Bollard Filled With Concrete, Bollards placed ~ 2' into the ground encased in concrete and painted 9/EA

Exterior Architectural Enhancements (Installation of Rubber Roof Membrane) Electrical (exterior): Exterior Ground Halo: Perimeter loop (\sim 200-LF) with #2 Thinned Copper Wire / (\sim 6) 10' Copper Cladded Rods / (1) Inspection port / (\sim 10) Grounding Tails From Exterior Ground Loop To Building and Related Building Equipment. Includes conduit to interior ground bar.

Oldcastle Infrastructure provided turnkey deployment of a 42' x 24' DAS Equipment shelter. The 42' x 24', two piece, DAS Equipment shelter was engineered and manufactured by Oldcastle Infrastructure for seismic zone: 50% G. The outside dimension is 42'0'' Long x 23'8'' Wide x 11'2'' High and the finished inside dimension is 41'0'' Long x 22'10'' Wide x 9'0'' High.

The turnkey project included total outfitting of the DAS Equipment shelter from installation of all electrical, environmental systems, alarms, lighting, on-site delivery and site construction, zoning, permitting and foundations, in addition to on-site architectural enhancements.



About Oldcastle Infrastructure

Oldcastle Infrastructure, A CRH Company, is the leading provider of building materials, products and services for infrastructure projects to several market sectors nationwide, including: Building Structures, Communications, Energy, Transportation and Water.

For More Information Contact:

Oldcastle Infrastructure

Phone: 215.257.2255

Address: 200 Keystone Drive, Telford, PA

oldcastleinfrastructure.com