



Transoft Solutions



AEROTURN™ **PARKCAD®** **GUIDSIGN** **AUTOTURN®**

PARKCAD®

AUTOTURN®
Version 5



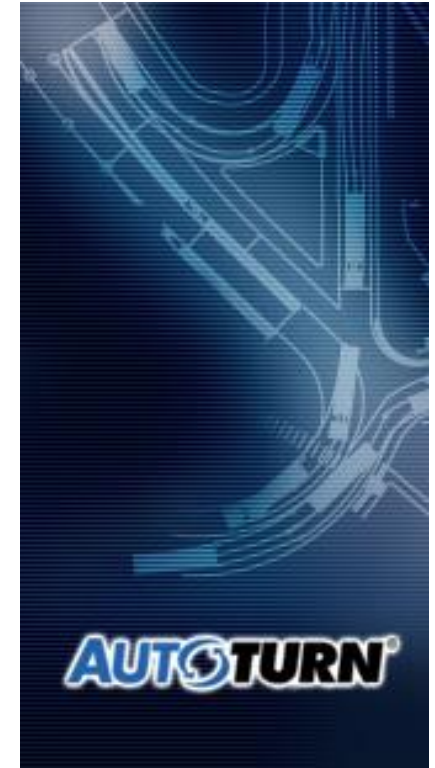
ParkCAD 3.0 and AutoTURN 5.1 Practical Site Evaluation

Presented By: Michael Frost, Product Manager



AutoTURN Application Overview

- AutoTURN is a third-party CAD application that allows the operator to generate dynamic vehicle simulations to determine spatial requirements on the roadway or for off-street projects.
- Simulations are created as CAD content and can be animated within the CAD environment for presentation purposes to non-technical stakeholders.
- Standard design vehicles are available based on international guidelines for road design, with the ability to define custom vehicles for roadway or off-street projects.



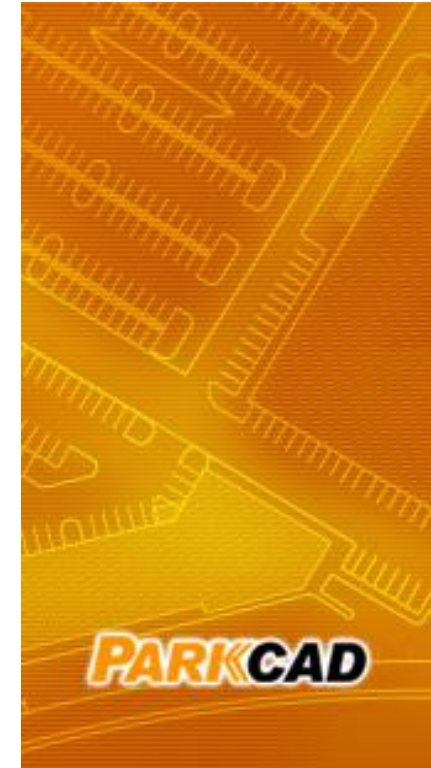
ParkCAD Application Overview

- ParkCAD is a third-party CAD application that allows the operator to generate parking either as individual rows or as entire lots at one time.
- Dynamic stall counts are presented to aid the operator to achieve the maximum number of parking stalls for any alignment.
- International standards for parking design are included with the ability to define custom standards to suit specific requirements of clients or municipalities.
- Detailed reports can be quickly generated to break down stall counts and percentage parking to ensure that parking requirements have been met.
- Studies have determined that ParkCAD can yield a **70% time savings** over traditional methods of design and reporting.



ParkCAD 3.0

- This release version is currently undergoing Quality Assurance Testing.
- The release is scheduled for May 2007 in order to coincide with the BE Conference and the National AIA Conference.
- Primary enhancements include:
 - Quantity Takeoff and Cost Reports
 - Accessibility Parking
 - Editing
 - Exclusion Areas
 - Lot Update
 - User Defined Stalls
 - Interface
 - Compatibility
 - AutoCAD 2000 – 2008
 - MicroStation V8 – V8 XM



*****DEVELOPMENT VERSION BEING PRESENTED*****

Preface

There are 2 common types of surface parking design being performed:

- 1. New construction**
- 2. Retrofit of existing parking areas to optimize land use**

In either case numerous iterations of the parking layout need to be presented before a contract is tendered (typically the iterative design process is non-billable time). As always, the land owner is most interested in maximizing the available parking on the existing site.



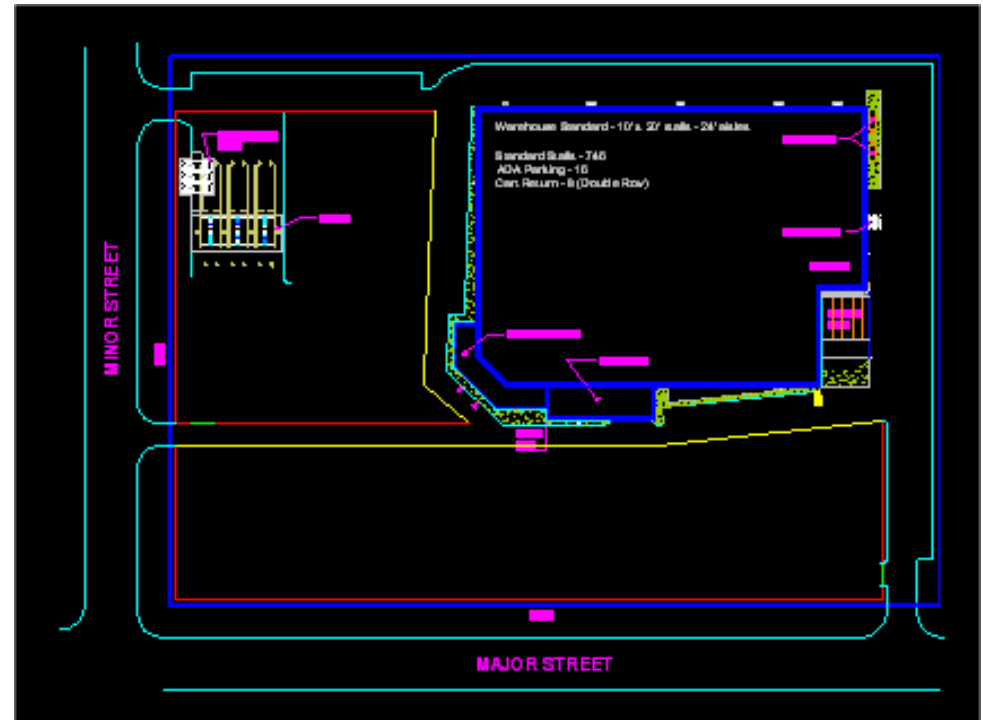
Optimize Parking Boundaries

This assessment optimizes the parking by reducing oversized drive aisles to minimum values from the nationally accepted ITE Guidelines.

Stall L x W = 17' 6" x 9'
Aisle Width = 26'

Field measurements at 2 local sites confirm ITE Guidelines.

Changes to As-Built would require construction costs to remove and rebuild the end islands, plus repainting of all stall lines.



ParkCAD Summary

1. Performing these type of assessments prior to construction can:
 - Prevent under designing based on “simplified standards”.
 - Prevent future construction\land purchase costs to handle higher volumes
2. Boundary Optimization yielded a potential layout with a 16.6% increase (124 stalls).
3. Logical editing of parking geometry to promote pedestrian flow down row “spines” may help to reduce drive aisle congestion.
4. The new Update Lot ability allows the design to be modified as changes come in during construction phases.
5. The new Quantity Takeoff and Costing reports provide immediate impact of design changes.



AutoTURN Summary

1. AASHTO vehicles are extremely conservative; it is possible that less vehicle maneuvering space will be required if actual vehicles are created and simulated for site design.
2. Pay attention to AutoTURN Smart Path Tool speed settings to match design speeds for assessments
3. Combine Smart Path Tools in your simulations to perform the best possible assessments.
4. Use the Reverse Corner Path with the Select Sweep Angle tool for reversing large vehicles into loading bays.
5. Utilize vehicle site lines to assess reverse maneuvers to allow better design of reverse approaches to loading facilities.



Questions

1. **Additional Questions**
2. **Sales / Support**
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4. **On-Site and web based training available**
5. **Thank you for attending**