Chicago Department of Aviation Overview, O’Hare and Midway International Airports
O’Hare Modernization Program
Capital Improvement Program
Sustainability
CHICAGO DEPARTMENT OF AVIATION

$1 BILLION BUDGET

$45 BILLION IN ANNUAL ECONOMIC ACTIVITY

1.5 million tons of cargo each year

90 million PASSENGERS

540,000 JOBS

1,500 CDA EMPLOYEES

1.1 million OPERATIONS

CONNECTING THE WORLD TO CHICAGO
O’HARE INTERNATIONAL AIRPORT
O’HARE AT A GLANCE

✈️ Nonstop service to 230 cities worldwide
✈️ 58 passenger carriers operating out of 188 gates
✈️ 70 million passengers in 2014
✈️ 882,000 operations in 2014

BEST AIRPORT IN NORTH AMERICA
15 CONSECUTIVE YEARS
$2.8 billion worth of investments completed or underway since 2013:

- OMP Runway 10C-28C
- O’Hare Northeast Cargo Center
- Multimodal Joint Use Facility and ATS Extension
- OMP Runway 10R-28L and South Air Traffic Control Tower
MIDWAY INTERNATIONAL AIRPORT

CONNECTING THE WORLD TO CHICAGO
MIDWAY AT A GLANCE

✈ Record-breaking 21 million passengers served in 2014
✈ #1 market for Southwest Airlines
✈ Over 500 daily flights / Service to 80+ destinations

AVIATION’S BUSIEST SQUARE MILE
O’HARE MODERNIZATION PROGRAM
O’HARE MODERNIZATION PROGRAM (OMP)

- Largest Construction Program in the U.S.
- $8 Billion Mega Project
- Reduces Delay and Increases Capacity
O’HARE MODERNIZATION PROGRAM

- **Purpose**
  - Reduce Delays
  - Increase capacity and efficiency

- **Scope**
  - Reconfigure O’Hare’s intersecting runways into modern, parallel layout
  - Six east-west parallel runways and two crosswind runways

- **Economic Impact**
  - Creates 195,000 jobs and adds $18 billion in annual economic activity
O’HARE RUNWAY RECONFIGURATION
Runway 9L/27R

- New 7,500 by 150 feet CAT III Runway
- Increased IMC Arrival Rate from 68 to 84 an hour
North Airport Traffic Control Tower
Runway 10L Extension
FedEx Metroplex Relocation
OMP RUNWAY 10C-28C

- Commissioned Oct 17, 2013
- Improves arrival and departure rates
Runway 10C/28C
**Construction: A layering process**

- **6 inches** Permeable asphalt
  The asphalt-treated permeable base is flexible and allows water to drain through the porous material.

- **6 inches** Asphalt base
  This asphalt layer is more dense than the permeable asphalt and provides a platform for the concrete above.

- **16 - 21 inches** Portland cement concrete
  Concrete is placed in 20-by-20-foot sections with dowels and rebar to reinforce it.

- **12 inches** Lime and soil base
  A lime and water mixture is added to existing soil, which provides frost protection to the pavement above.

**The work: Equipment used**

- Excavators and bulldozers
- Paving machine
- Lighting and signage
- Asphalt rollers

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Photo by Antonio Perez

Schematic not to scale
SOUTH AIRFIELD CONTROL TOWER

- Supports operations on Runway 10R/28L
- 219 feet tall
- 556 sf cab
- $40M project cost
- 12,000 sf
- January 2015 Turnover to FAA
- October 2015 Commissioning
SOUTH AIRFIELD CONTROL TOWER
10C–28C RUNWAY STATUS LIGHTS AND SOUTH AIRFIELD FACILITY IMPROVEMENTS

General Description
Runway Status Lights Work: Construction of a new Runway Status Light (RWSL) Substation and associated ductbanks, copper cabling. All associated electrical, lighting, mechanical, plumbing, cabling, and cable equipment. Runway 22L Glide Slope Modifications: Construction of a new Runway 22L Glide Slope Equipment Pad and associated electrical work, new power feed, grading and drainage, and demolition of old. Ductbank tie-ins and new cables. Central Cargo Tunnel Fan Rehabilitation: Removal of two South Cargo Tunnel Fans to be replaced with two 140,000 cfm, in-line axial, fixed pitch fans. All associated electrical, mechanical, plumbing, and control and monitoring systems.

Anticipated Advertisement Date 2nd Quarter 2015
Estimated Value $4,100,000

Skilled Trades Required
- Carpenters
- Electricians
- Operators
- Truck Drivers
- Laborers
- Cement Masons / Finisher
- Plumbers

Location
ORD Airside
BENSENVILLE DITCH EAST

General Description
In order to meet compliance with the City’s 404 permit, this project will eliminate approximately 12 acres of wetland and Re-grade the eastern portion of the Bensenville Ditch. Work elements include; Site clearing and grubbing, unsuitable soil excavation, installation of drainage channel revetment mat and site grading and seeding.

Anticipated Advertisement Date | 1st Quarter 2015
---|---
Estimated Value | $8 – $12 million

Skilled Trades Required
- Operators
- Truck Drivers
- Traffic Safety Workers
- Laborers
10R-28L ARFF #1 MODIFICATIONS

General Description
This project consists of a 10,800 s.f. addition to the existing ARFF #1 Facility. The facility will contain 3 bays for apparatuses and equipment and other functions on the ground floor totaling 7,700 s.f. and 3,100 s.f. on the second story for dormitory space for firefighters in the facility. The addition is required to accommodate additional ARFF equipment that will be required when Runway 10R-28L becomes operational.

Anticipated Advertisement Date | 1st Quarter 2015
--- | ---
Estimated Value | $7,500,000

Skilled Trades Required
- Carpenters
- Electricians
- Operators
- Truck Drivers
- Pipe Fitters
- Iron Workers
- Laborers
- Cement Masons / Finisher
- Plumbers
- Asphalt Workers
DAYTONA BEACH SANITARY LIFT STATION RELOCATION

General Description
The new Daytona Beach Sanitary Lift Station will consist of an approximate 1000 sq. ft. structure with four slicer pumps each delivering 633 gpm at 30 ft. TDH, control monitoring, all electrical and mechanical systems, and approximately 400 lf of 18 inch diameter ductile iron sanitary sewer extension with manholes. Upon completion, the old Daytona Beach Pumping Station will be demolished.

Anticipated Advertisement Date | 1st Quarter 2015
---|---
Estimated Value | $4,500,000

**Skilled Trades Required**
- Carpenters
- Electricians
- Operators
- Truck Drivers
- Laborers
- Cement Masons / Finisher
- Plumbers
O’HARE MULTI-MODAL JOINT USE FACILITY

- ATS Station
- Metra Rail O’Hare Transfer Station
- Metra North Central Service
- Public Parking & CRCF
- Quick Turn Around Facility
- Bus Plaza
- Transit-Oriented Development Area
JOINT-USE FACILITY

Joint Use Consolidated Rental Car / Parking Facility and ATS Extension Fixed Facilities

Alternate Project Delivery
Construction Manager-at-Risk (CMR)

Trade Procurement
Multiple Trade Packages
Prequalification for Trade Contractors
Qualifications: Safety Record, Work Experience, and Financial Stability
Outreach Meetings
General Description
This trade bid package will consist of underground utilities, mass excavation, demolition, foundations and other miscellaneous site preparation work.

Anticipated Advertisement Date | 4th Quarter 2014
--- | ---
Estimated Value | $20 - $30 million

<table>
<thead>
<tr>
<th>Skilled Trades Required</th>
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<tbody>
<tr>
<td>Carpenters</td>
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<tr>
<td>Electricians</td>
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<td>Cement Finisher</td>
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<tr>
<td>Plumbers</td>
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</table>
CMR: STRUCTURES

General Description
This trade bid package will consist of the erection of structures, including the maintenance and storage facility, concrete masonry and customer service center.

Anticipated Advertisement Date | 4th Quarter 2015
--- | ---
Estimated Value | $10 - $20 million

Skilled Trades Required
- Carpenters
- Electricians
- Operators
- Truck Drivers
- Pipefitters
- Painters
- Ironworkers
- Laborers
- Cement
- Masons/Finisher
- Plumbers
- Sprinkler Fitter

Location
ORD Landside
General Description
This trade bid package will consist of the construction of roadway infrastructure, including the roadway system, bridge over Mannheim Road and the guideway extension from Lot E to the Lot F site.

Anticipated Advertisement Date: 3rd Quarter 2015
Estimated Value: $40 - $50 million

Skilled Trades Required
- Carpenters
- Electricians
- Operators
- Truck Drivers
- Ironworkers
- Laborers
- Cement Masons/Finisher
General Description
The trade bid package consists of the installation of mechanical, electrical and plumbing systems including vertical circulation equipment and other building systems.

Anticipated Advertisement Date: 4th Quarter 2015
Estimated Value: $250 – $275 million

Skilled Trades Required
- Carpenters
- Electricians
- Operators
- Truck Drivers
- Pipefitters
- Sheet Metal Workers
- Elevator Mechanics
- Ironworkers
- Laborers
- Cement
- Masons/Finisher
- Plumbers
- Sprinkler Fitter
- Glaziers
General Description
This trade bid package consists of the construction of concrete enclosures for the main structure, customer service center and Quick-Turn-Around. Also includes roofing.

Anticipated Advertisement Date
1st Quarter 2015

Estimated Value
$10 - $20 million

CMR: ENCLOSURE

Skilled Trades Required
- Carpenters
- Electricians
- Operators
- Truck Drivers
- Pipefitters
- Sheet Metal Workers
- Elevator Mechanics
- Ironworkers
- Laborers
- Cement
- Masons/Finisher
- Plumbers
- Sprinkler Fitter
- Painters

Location
ORD Landside
General Description
This trade bid package consists of the finishing of the facilities. The ATS Station and Customer Services lobby finishes will be constructed. In addition, the project signage will throughout the project.

Anticipated Advertisement Date | 2nd Quarter 2016
--- | ---
Estimated Value | $10 - $20 million

Skilled Trades Required
- Carpenters
- Electricians
- Sheet Metal Workers
- Elevator Mechanics
- Terrazzo Setters
- Tile Finishers
- Ironworkers
- Laborers
- Plumbers
- Sprinkler Fitter
- Painters
- Plasterers
General Description
This trade bid package consists of the fine grading and landscaping associated with the project.

Anticipated Advertisement Date | 3rd Quarter 2016
---|---
Estimated Value | $8 - $10 million

**Skilled Trades Required**
- Carpenters
- Electricians
- Operators
- Truck Drivers
- Laborers
- Cement Masons / Finisher
- Plumbers
CAPITAL IMPROVEMENT PROGRAM
CHICAGO DEPARTMENT OF AVIATION
CAPITAL IMPROVEMENT PROGRAM

- Comprised of projects and tasks that are aimed at preserving and maintaining the capacity and functionality of existing facilities and infrastructure at both O’Hare and Midway International Airports.
- Includes projects and tasks associated with the safety and security of the Airports and environmental efforts.
- Representative CIP projects have included runway and taxiway rehabilitations, upgrade and renovations of existing terminal facilities and support facilities, rehabilitation to airport roadways, rehabilitation to public parking, utility projects and security enhancements.
**A/E CONTRACT INFORMATION**
**DESIGN AND CONSTRUCTION**

**CONNECTING THE WORLD TO CHICAGO**

**ONGOING CONTRACTS**

### ARCHITECTURAL

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<td>Ross Barney Architects</td>
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<td>Solomon Cordwell &amp; Buenz (SCB)</td>
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<tr>
<td>Reynolds Smith &amp; Hill (RS&amp;H)</td>
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### ENGINEERING

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In support of the efforts of the Chicago Department of Aviation (CDA), CARE Plus, LLC has been retained as their Owner’s Representative. The Chicago Airports Resources Enterprise (CARE Plus, LLC) is a joint venture composed of the following companies:

- HNTB, Inc.
- Ghafari Associates, L.L.C.
- Heery International, Inc.
- d’Escoto, Inc.
- Bradshaw Construction Management, Inc.
- Autumn Construction Services, Inc.
Working as a partner with the CDA, CARE Plus is an extension of the CDA staff to define and deliver projects in the planning, conceptual, design and construction phases. As the Owner’s Representative, we are comprised of seasoned aviation professionals who bring intimate knowledge of the Capital Improvement Program, innovations, best practices and unique perspectives to ensure the Capital Improvement Program and the Chicago Department of Aviation succeed with their goals for O’Hare and Midway International Airports.

Our success in delivering professional services to the CDA includes the approach to continue to maximize the talent of our staff, providing the CDA with time and cost saving ideas to keep the CIP on track. Additionally, we continue to apply best practices and lessons learned grained from the team’s overall national experience as well as our local experience with the Chicago airport system.
LANDSIDE TERMINAL 5 PCC PAVEMENT
RECONSTRUCTION

General Description
The scope will involve removal and replacement of existing PCC pavement, stone base, bituminous shoulder, sidewalk, curb and gutter, storm inlets and catch basins, and pavement marking at the lower level road of Terminal 5. Phasing of lane closures will be coordinated to allow for access during construction.

Anticipated Advertisement Date | 1st Quarter 2015
--- | ---
Estimated Value | $2 - $3 million

Major Work Items and Estimated Quantities
- Concrete Pavement: 10,000 SY
- Concrete Shoulder: 1,400 SY
- Curb & Gutter: 2,500 LF
- 8” CA-6: 2,600 CY

Skilled Trades Required
- Cement Masons
- Laborers
- Teamsters
- Carpenters
General Description
Scope of work includes the use of helical piles adjacent to the toe of the footing and anchoring the helical pile system to the concrete toe. Structural and cosmetic concrete repairs will be utilized in areas where the concrete has delaminated or where the wall has large cracks. Weep holes will be provided to allow trapped water to release onto the roadway instead of contributing to the deterioration of the wall. A new concrete cap will replace the existing one and a new coat of elastomeric paint will cover the entire wall.

Major Work Items and Estimated Quantities
- Sidewalk Rem. & Repl. 7,000 SF
- Curb and Gutter 1,500 LF
- Formed Structural Concrete 1,000 CY
- Underdrains 2,200 LF
- Conduit 7,300 LF
- Roadway Light Poles 81 EA

Anticipated Advertisement Date | 2nd Quarter 2015
Estimated Value | $3 - $6 million

Skilled Trades Required
- Carpenters
- Electricians
- Plumbers
- Laborers
- Teamsters
- Traffic Control
- Operating Engineers
- Painters
General Description
This project, currently in planning, includes the milling and bituminous overlay of the portion of the runway that has asphalt surface as well as the adjacent taxiways up to the mandatory hold bar. The in-pavement runway lights and bases including runway centerline, runway touchdown zone, LAHSO, runway edge, and taxiway centerline will be removed and replaced. New conduit connecting these lights will also be replaced along with the lighting cable for each circuit – including a new home run to the North Lighting Control Vault.

Anticipated Advertisement Date | 2\textsuperscript{nd} Quarter 2015
---|---
Estimated Value | $18 - $20 Million

Major Work Items and Estimated Quantities
- Asphalt Pavement: 52,000 Tons
- 5KV Power Cable: 100,000 LF
- Ductbank: 30,000 LF
- Pavement Marking: 250,000 SF

Skilled Trades Required
- Electricians
- Operating Engineers
- Cement Masons
- Laborers
- Teamsters
General Description
In order to maintain both airside and landside infrastructure, the CDA requires the flexibility to use on-call fixed price term contracts. This contract is for patching, milling, and bituminous concrete at Midway and O’Hare for both landside and airside pavements. This includes runways, taxiways, aprons, roadways, and parking lots.

Anticipated Advertisement Date | 1st Quarter 2015
Contract Length | 5 years with 2 – 1 year options

Major Work Items
- Bituminous Concrete - Superpave
- Bituminous Concrete N70, N50
- Bituminous and PCC Cold Milling
- Bituminous and PCC Grinding
- Cold Patch Supply
- Epoxy Polymer Concrete Mortar

Skilled Trades Required
- Operating Engineers
- Teamsters
- Laborers
General Description
In order to maintain both airside and landside infrastructure, the CDA requires the flexibility to use on-call fixed price term contracts. This contract is for removal and replacement of Portland Cement Concrete and concrete structures at Midway and O’Hare within the terminal aprons. Aircraft parking gates within the concourse aprons are closed for limited durations to allow for the replacement of failed slabs.

Anticipated Advertisement Date | 1st Quarter 2015
Contract Length | 5 years with 2 – 1 year options

Major Work Items
- PCC Pavement - Remove and Replace
- Excavation and Embankment
- Stone Base
- Drainage Structure Adjust/Replace
- Fuel Infrastructure Removal and Replacement

Skilled Trades Required
- Operating Engineers
- Cement Masons
- Teamsters
- Carpenters
- Laborers
LANDSIDE CONCRETE TERM CONTRACT

General Description
In order to maintain both airside and landside infrastructure, the CDA requires the flexibility to use on-call fixed price term contracts. This contract is for patching, repair, and replacement of Portland Cement Concrete and concrete structures at Midway and O’Hare outside the Airport Operations Area (Landside). This includes airport access roadways, parking lots, curb and gutter, and sidewalks.

Anticipated Advertisement Date | 1st Quarter 2015
---|---
Contract Length | 5 years with 2 – 1 year options

Major Work Items
- PCC Pavement - Remove and Replace
- Excavation and Embankment
- Stone Base
- Sidewalks
- Curb and Gutter
- Utility Structures

Skilled Trades Required
- Operating Engineers
- Cement Masons
- Teamsters
- Carpenters
- Laborers
General Description

In order to maintain both airside and landside infrastructure, the CDA requires the flexibility to use on-call fixed price term contracts. This contract is for repair and maintenance of the bridges at O’Hare and Midway. Biennial inspections yield reports which recommend the repairs necessary to maintain the condition of the twenty-two structures that are registered with IDOT.

**STRUCTURAL BRIDGE REPAIR AT ORD AND MDW**

**Location**
ORD & MDW
Landside

**Anticipated Advertisement Date**
1st Quarter 2015

**Contract Length**
5 years with 2 – 1 year options

**Major Work Items**
- Structural Concrete Repairs
- Deck Repairs
- Epoxy Crack Injection
- Joint Cleaning and Repair/Replacement
- Cleaning/Painting of Structural Steel and Concrete
- Parapet and Handrail Repair/Replacement
- Drainage Replacement

**Skilled Trades Required**
- Operating Engineers
- Cement Masons
- Teamsters
- Carpenters
- Laborers
- Painters
## General Description
Rehabilitation of various Landside Parking Lots. Scope of work will vary at each location, ranging from seal coating, patching and overlays, to full reconstruction and reconfiguration of existing lots. Work will include new lighting, drainage, and flat work.

### Advertisement Date
11/26/2014

### Estimated Value
$7 - $8 million

### Major Work Items and Estimated Quantities

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>Bituminous Concrete Pavement</td>
<td>10,000 Ton</td>
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<tr>
<td>Joint Sealing</td>
<td>15,000 LF</td>
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<tr>
<td>Seal Coating</td>
<td>152,000 SY</td>
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</tbody>
</table>

### Skilled Trades Required

- Carpenters
- Electricians
- Teamsters
- Operating Engineers
- Cement Masons
- Laborers
General Description
Project will include the reconfiguration of the 55th and Laramie Gate and the replacement of the 63rd and Laramie Guard Booth. Scope will include guard booth replacements, new emergency generators, new concrete and asphalt pavements, lighting improvements, curb and gutter replacement, and drainage improvements. Also included will be landscaping improvements and sanitary sewer upgrades.

Advertisement Date | Out to Bid 1/08/15
(Bid opening date: 3/2/2015)
---|---
Estimated Value | $1 - $2 million

Major Work Items and Estimated Quantities
- Asphalt Pavement: 2000 Tons
- Concrete Pavement: 450 SY
- Pre-Fabricated Booths: 2 EA
- Ductbank: 1000 LF
- Sidewalk: 5700 SY

Skilled Trades Required
- Carpenters
- Electricians
- Plumbers
- Operating Engineers
- Cement Masons
- Teamsters
- Laborers
General Description
The project will include the Rehabilitation of Runway 4L-22R. The scope will include a mill and overlay of the existing runway, widening of shoulders, installation of new edge lights and infrastructure as well as new concrete pavement for aircraft run-ups. Also associated with this project is the reconfiguration of Taxiway P where it intersects the runway.

Location
MDW Airside

Anticipated Advertisement Date | 1st Quarter 2015
--- | ---
Estimated Value | $10 - $15 million

Major Work Items and Estimated Quantities
- Excavation 10,800 CY
- Asphalt Pavement 45,000 Tons
- Concrete Pavement 8,400 SY
- Electrical Ductbank 11,000 LF
- Light Bases and Fixtures 110 EA

Skilled Trades Required
- Electricians
- Operating Engineers
- Cement Masons
- Laborers
- Teamsters
**General Description**

The work scope includes extending the curb front 6 feet adding sidewalk and creating more space for the traveling public. With this extension the pavement removal would be required along with curb and gutter removal/replacement. This work will also include painting the canopy, modifying the existing bollards, improving passenger queuing, cleaning the existing signage and installing new energy efficient lighting.

**Anticipated Advertisement Date** 1st Quarter 2015

**Estimated Value** $3 - $4 million

**Location** MDW Landside

**Major Work Items and Estimated Quantities**

- Concrete Sidewalk Extension 3,500 SF
- Bollard Replacement 125 EA
- Canopy Painting 1 LUMP SUM
- Light Fixtures 100 EA

**Skilled Trades Required**

- Electricians
- Operating Engineers
- Cement Masons
- Teamsters
- Laborers
- Carpenters
- Painters
**General Description**

Full reconstruction of Taxiway NN between Taxiway M and the proposed NE Cargo Apron Taxilane. This includes approximately 1500 lf of Portland Cement Concrete (PCC) taxiway 75 foot wide with 30 foot bituminous shoulders. The taxiway is designed to accommodate aircraft as large as the Boeing 747-8 and will be designed to FAA Taxiway Design Group (TDG) 6 standards. The portion of taxiway north of the Apron Taxilane will only receive a 3” mill and bituminous overlay on the existing pavement.
**Major Work Items and Estimated Quantities**

- Phase 1 Building Footprint: 476,000 SF
- Phase 1 Apron PCC: 98,250 SY
- Phase 1 Taxi Lane PCC: 30,150 SY
- Phase 2 Building Footprint: 198,000 SF
- Phase 2 Apron PCC: 52,200 SY PCC

**Skilled Trades Required**

- Carpenters
- Electricians
- Plumbers
- Pipe Fitters
- Teamsters
- Cement Masons
- Laborers
- Painters
- Glaziers

**General Description**

Airside Cargo Facility, Taxi Lane Improvements, Airside Service Road, Landside Access Road, Utility and Infrastructure Improvements.

**Location**

ORD Airside

Substantial Completion: 2nd Quarter 2016

Estimated Value: $40 Million
SUSTAINABLE INITIATIVES
LEADERSHIP

World’s 1st airport aeroponic garden

1st airport Green Concessions Policy

1st U.S. airport to use recycled asphalt shingles in runways & taxiways

1st airport development sustainability manual & rating system

1st LEED NC airport rental-car branch

Largest U.S. airport green roof

1st major on-airport bee farm in the U.S. and largest at any airport in the world

1st U.S. automated passport control program

1st green roof on an FAA airport facility

CONNECTING THE WORLD TO CHICAGO
CDA’s A Sustainable Path
2015 targets (2010 baseline):

- Reduce energy use by 15%
- Reduce potable water use by 10%
- Divert 50% of waste from landfills
- Maintain a fleet of at least 20% green vehicles
- Reach the Airport Service Quality (ASQ) program’s Top Ten ranking for passenger experience
- Supports City of Chicago sustainability guidance
Contractual requirements to incorporate sustainability in all CDA and tenant projects

Standards and specifications, checklists, a rating program, and award recognition

Developed with input from 200+ stakeholders

Press from nearly every airport magazine

Covers all airport functions:
SAM contractual requirements include:

- SAM compliance is required in all airport contracts
  - Compliance is tied to payment

- Part of Standard Operating Procedure:
  - Introduced in the Request for Proposals (RFP) process
  - Included in project kick-off meetings
  - Every design team must have a LEED Accredited Professional
  - Designers must submit a SAM checklist at key design milestones for review (30%, 60%, 90%, 100%)
SAM GREEN AIRPLANE RATING SYSTEM

✈️ Green Airplane Certifications recognize those who meet or exceed sustainability requirements
✈️ 150+ projects reviewed & rated
✈️ 200+ project total expected in 2015
Specifications tied to payment of all contracts

- 0111: *Construction Air Quality – Diesel Vehicle Emission Controls*
- 01524: *Construction Waste Management*
- 01355: *Local/Regional Materials*
- 01356: *Recycled Content*
- 01360: *Sustainable Temporary Construction Materials*
- 02905: *Sustainable Airport Landscaping*
Helped the CDA and other airports:

- Minimized costs
- Reduced emissions
- Minimized waste & off-airport hauling
- Increased recycling
- Conserved water and energy
- Increased demand for renewable resources and alternative energy sources
- Over $175 million in materials & financial activity supporting the Midwest economy
- Facilitated National Environmental Policy Act (NEPA) approval
98% of all construction & demo materials reused

Reclaimed > 575,000 tons of asphalt & concrete

Ultra-Low Sulfur Diesel fuel required 5 years before federal mandate

Diesel oxidation catalysts and particulate traps on equipment for cleaner emissions

Idling restrictions (5 min/hour)

Regional Materials
  - 86% of materials obtained within 500 miles

Recycled Content
  - 13% of materials contained recycled content (> $22 million worth)
## SAM ACCOMPLISHMENTS

### Balanced Earthwork Plan

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<th>Quantities</th>
<th>Description</th>
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<td>&gt; 28 Million</td>
<td>Cubic Yards of Soil Moved</td>
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<td>&gt; 7 Million</td>
<td>Cubic Yards of Soil Kept On-Site</td>
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<td>&gt; 720,000</td>
<td>Haul Trips Saved</td>
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<td>&gt; $150 Million</td>
<td>Dollars Saved</td>
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<tr>
<td>&gt; 8.1 Million</td>
<td>Gallons of Diesel Fuel Saved</td>
</tr>
<tr>
<td>&gt; 82,000</td>
<td>Tons of CO₂ Saved</td>
</tr>
</tbody>
</table>

12+ Willis Towers Worth of Soil Moved
GREEN CONCESSIONS POLICY

Adopted March 2013

Requires all concessionaires to:

- Eliminate Styrofoam
- Ban plastic bags, containers and utensils
- Separate all solid waste into recyclables, compost, and refuse
- Use only green cleaning and hygiene products
- Buy sustainable foods
- Procure 100% recycled content paper
- Donate surplus food
- Incorporate SAM guidance and achieve a ‘Green Airplane Rating’
PARTNERSHIPS

- Metropolitan Water Reclamation District of Greater Chicago (MWRD)
  - Waste to Energy Opportunities
- Prairie Research Institute/University of Illinois Sustainable Technology Center
- Mayor’s Office
- Midwest Aviation Sustainable Biofuels Initiative (MASBI)
- Columbia College Chicago
- Airports Going Green
  - Input from 200+ stakeholders
  - 400 attendees
- Airlines, concessions, and many more
Welcome to the Chicago Department of Aviation
Connecting You Everywhere

O’HARE INTERNATIONAL AIRPORT

MIDWAY INTERNATIONAL AIRPORT