

Alineación del Tren Urbano



Características del sistema

- Tren Urbano - sistema de rieles pesado
- Extensión de 17.2 Kilómetros
- 16 Estaciones
- Taller de Mantenimiento
- Sistema Eléctrico





ALTERNATIVA DE TRANSPORTE INTEGRADO



SIEMENS Transit Team

ORGANIZACION

**GENERAL
MANAGER**

ADMIN.
ASSISTANT

**DIRECTOR OF SAFETY
AND QUALITY
ASSURANCE**

**DIRECTOR OF SYSTEM
SECURITY**

**DIRECTOR OF
TECHNOLOGY
TRANSFER AND
TRAINING**

**DIRECTOR OF
MARKETING,
COMMUNICATIONS, AND
COMMUNITY RELATIONS**



TECH TRANSFER/
TRAINING
CONSULTANT (DBE)

ADVERTISING
CONTRACT

CONCESSION
CONTRACT

MARKETING
CONTRACT

**MANAGER OF
TRANSPORTATION**

**MANAGER OF SYSTEMS
MAINTENANCE**

**MANAGER OF FINANCE,
ADMINISTRATION, AND
SUPPORT**



Alternate



Concepts, Inc.



ALTERNATIVA DE TRANSPORTE INTEGRADO



SIEMENS Transit Team

Nivel De Servicio

Dias de Semana: 5:30 AM – 11:00PM

Horas Pico:

6:00 AM – 10:00 AM

Cada 4 minutos

14 trenes

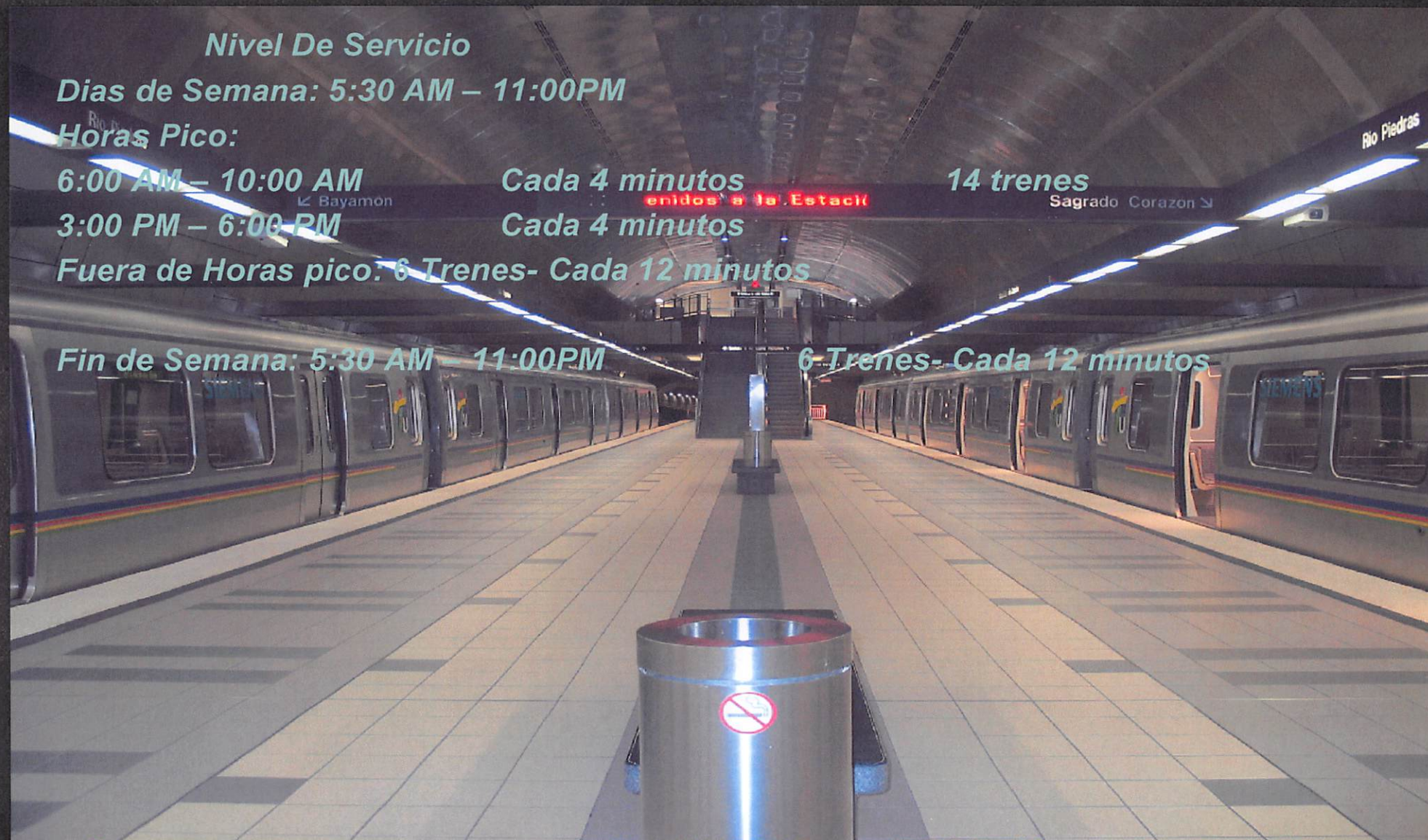
3:00 PM – 6:00 PM

Cada 4 minutos

Fuera de Horas pico: 6 Trenes- Cada 12 minutos

Fin de Semana: 5:30 AM – 11:00PM

6 Trenes- Cada 12 minutos





Características de los Vehículos Del Tren Urbano

Tipo

Los vehículos son construidos en acero inoxidable y armadura rígida. Cada carro consta de cuatro ejes y funcionan en parejas. Cada final de cada pareja tiene una cabina completamente equipada, lo que permite la operación en ambas direcciones.





Fabricante	SIEMENS Transit Division
Número Pedido	37 Parejas (74 vehículos)
Costo	Aproximadamente 6 millones por cada pareja.
Puertas	6 puertas deslizantes del bolsillo doble de la hoja (por el coche) 2 puertas del extremo por (por el coche)





Capacidad

Número de asientos: 72

Pasajeros de pie: 168

Capacidad total: 240 pasajeros por coche

Capacidad por pareja de vagones
(married pair): 480 pasajeros

Dos parejas de vagones (consist): 960
pasajeros



Edificio de Operaciones y Administración



- Taller de Mantenimiento
- Área de Almacenaje



Esta ubicado en el edificio de Operación y Administración (O&A), localizado cerca del Expreso Martínez Nadal, carretera #21, #24, en Guaynabo. El OCC es totalmente responsable por las operaciones del sistema de trenes y funciona las 24 horas del día, los 7 días de la semana.

Centro de Control de Operaciones (OCC)

Programa de Desarrollo Profesional UPR/PUPR/ATI
Grupo 1

Laboratory Experience: Experiencing Public Transportation in the San Juan Metropolitan Area
Coordinators: Dr. Gabriel Moreno Viqueira- Rose Marie Bernier

Objective: Integrating Tren Urbano and AMA participants will use Public Transportation to reach a quality public space: Ventana del Condado and return to the Hotel.

Prior to the Technical Tour:

Students will study maps and decide on best Route to reach Condado from the Roosevelt Station. Three groups will be established with the following Group Leaders: Dr. Gabriel Moreno, Marina Moscoso and Cesar Garcia.

A tour will be conducted using the Tren Urbano and visiting some key Stations. At the end of the tour via Tren Urbano all participants will depart from the train at the Roosevelt Station and will follow one of their leaders. Faculty who does not wish to continue will make arrangements to go from Roosevelt Station to their destinations (Coordinate with Irmali Franco).

After going to Condado all students will use the AMA to return back to the Embassy Suites Hotel. Those not going back to the Hotel must coordinate with Dr. Gabriel Moreno

Friday, September 24, 2004 - Laboratory Experience: Experiencing Public Transportation in the San Juan Metropolitan Area *VIP Ride 2:30 pm-*
Schedule

- ◆ Walk from AMA headquarters to the San Francisco Station:
- ◆ Arrive at San Francisco Station
 - Board Train to Bayamon Station
 - Travel from Bayamon to Jardines Station
- ◆ Jardines Station
 - View a neighborhood Station
 - Travel from Jardines to Rio Piedras Station
- ◆ Rio Piedras Station
 - Walk on the Platform
 - Go to mezanine
 - Travel from Rio Piedras to UPR Station
- ◆ UPR Station
 - Walk on Platform
 - Go to mezanine
 - Travel from UPR to Sagrado Corazon
- ◆ Sagrado Corazon Station
 - Go to End Station
 - Board Train to Roosevelt Station
 - Travel from Sagrado Corazon to Roosevelt Station
- ◆ Roosevelt Station
 - Disembark, walk and go to Condado using the different means each group has decided

Evaluation: An evaluation of the experience must be done by the Students to be discussed during the final workshop on Saturday:

Points to evaluate:

1. Transportation Quality: Efficiency, Speed, Comfort, Accesibility
2. Pedestrian Experience: Quality of Space, Safety, Traffic Calming, Crosswalks
3. Intermodality