



CITY AND COUNTY OF SAN FRANCISCO San Francisco Municipal Transportation Agency Request for Proposals THE PROCUREMENT OF 30-Foot, 40-FOOT AND 60-FOOT LOW FLOOR DIESEL HYBRID COACHES

Proposal Section	Title	Bid Submission Requirements
3-B	Internal Dimensions and Layout	 Supply plan in left and right elevations of proposed seating, stanchion and handrail layout. The seat spacing, aisles, front platform, and tie-down areas should be dimensioned. Supply aisle width between front and rear wheelhouses, hip to knee distance for all forward-facing seating, correct stepwell dimensions, location of modesty panels and location of driver's wrap-around barrier and driver's seat. Note locations of any floor slopes and the amount of slope in percent grade. It is strongly preferred that the plan view and left and right elevations are shown on an 11 x 17 inch drawing. Supply a dimensioned plan view of wheelchair tie down locations and the turning diagram of the ADA mobility aid device moving from the raised ramp through the front platform area to the area between the front wheelhouses. Provide a drawing of ramp showing width at the platform, length between the raised barriers, height of the barriers, slope of the ramp (kneeled), and total deployed distance from the side of the bus. Provide a drawing clearly showing the wheelchair maneuvering room in as much detail as shown in Attachment 11, Vol. 2. See also Section 3.7.5.1, Maneuvering Room of the Technical Specifications – Vol. 2.

Please find attached our seating questionnaire describing the key features of the proposed seat. We are also including detailed drawings with regards to seat position and wheelchair maneuverability. New Flyer is proposing our patented wheelchair ramp with Improved accessibility, incorporating the lowest entrance step height of any available bus design today, a wider entrance door (33.8" clear opening between handles) and 1:7 slope.





SALES INFORMATION BULLETIN

#526-001 | Model: Xcelsior | Length: specific to MUNI Propulsions: AIII

Passenger Seating

Please refer to the attached drawing for details regarding the proposed seat layout. In addition, New Flyer has included additional information regarding the seating features:

Seat Manufacturer & Model	American Seating Vision
Seating Capacity	52
Standee Capacity	39
Average Hip-to-Knee	30
Average Foot Room*	14"
Wheelchair Restraint System	Reliant 3-point system
Wheelchair Restraint Belts Model	Secura Swiv lock belts
Locking Mechanism on Flip-Up Seats	Up and Down
Seating Insert Material	Anti Graffiti Compliant
Seating Upholstery Fabric	Fiberglass Onserts
Seat Frame Material	Exposed stainless steel frames
Seat Back Panel Material	Stainless Steel
Seat Grab Rail Material	Stainless Steel
Arm Rest on Longitudinal Flip-Up Seats	Stainless Steel
Arm Rest on Standard Longitudinal Seats	Stainless Steel
Stop Request Type on Longitudinal Flip-up seats	Special MUNI Blue Stop Request

Specials:

Trash deflector	Included at rear cross seat	
Drain holes	Required	
Anti-graffiti coating	Required	
Docket 90 compliant	Not Required	
Remote Release Belts	Required	



3. PASSENGER SEATING

3.1. Mounting Passenger Seats

The vehicle is equipped with a combination of two, three and five-passenger transverse and longitudinal sets. The seats located in the wheelchair area are of a flip-

up and lock design. The center section of the five-passenger rear seat is designed to flip up to allow access to the engine and transmission compartments. All other seats are fixed and are supported by pedestals and the side wall seat rail. See "Fig. 17-12: Seating Layout" on page 14.

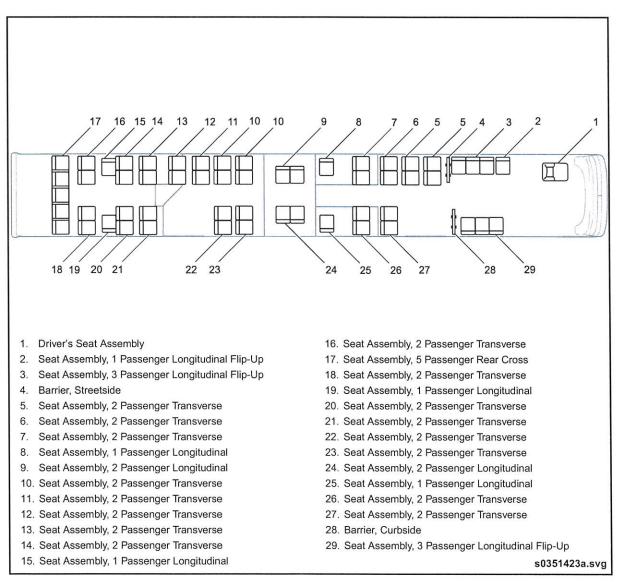
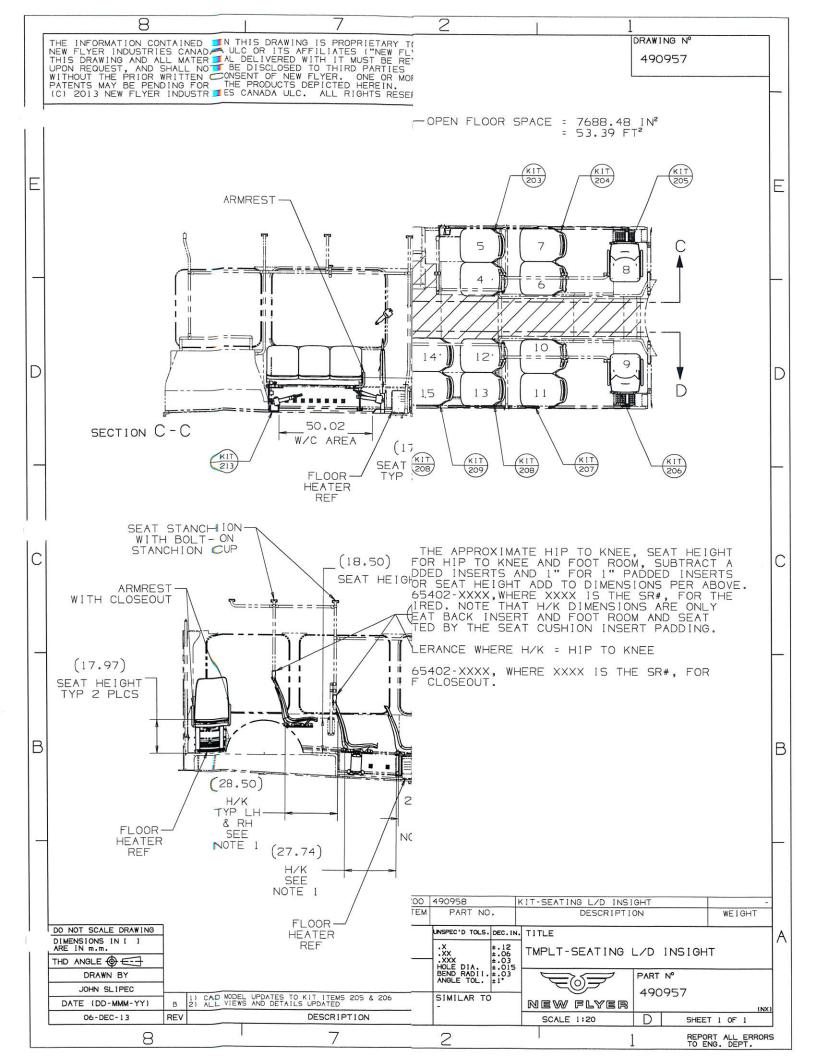
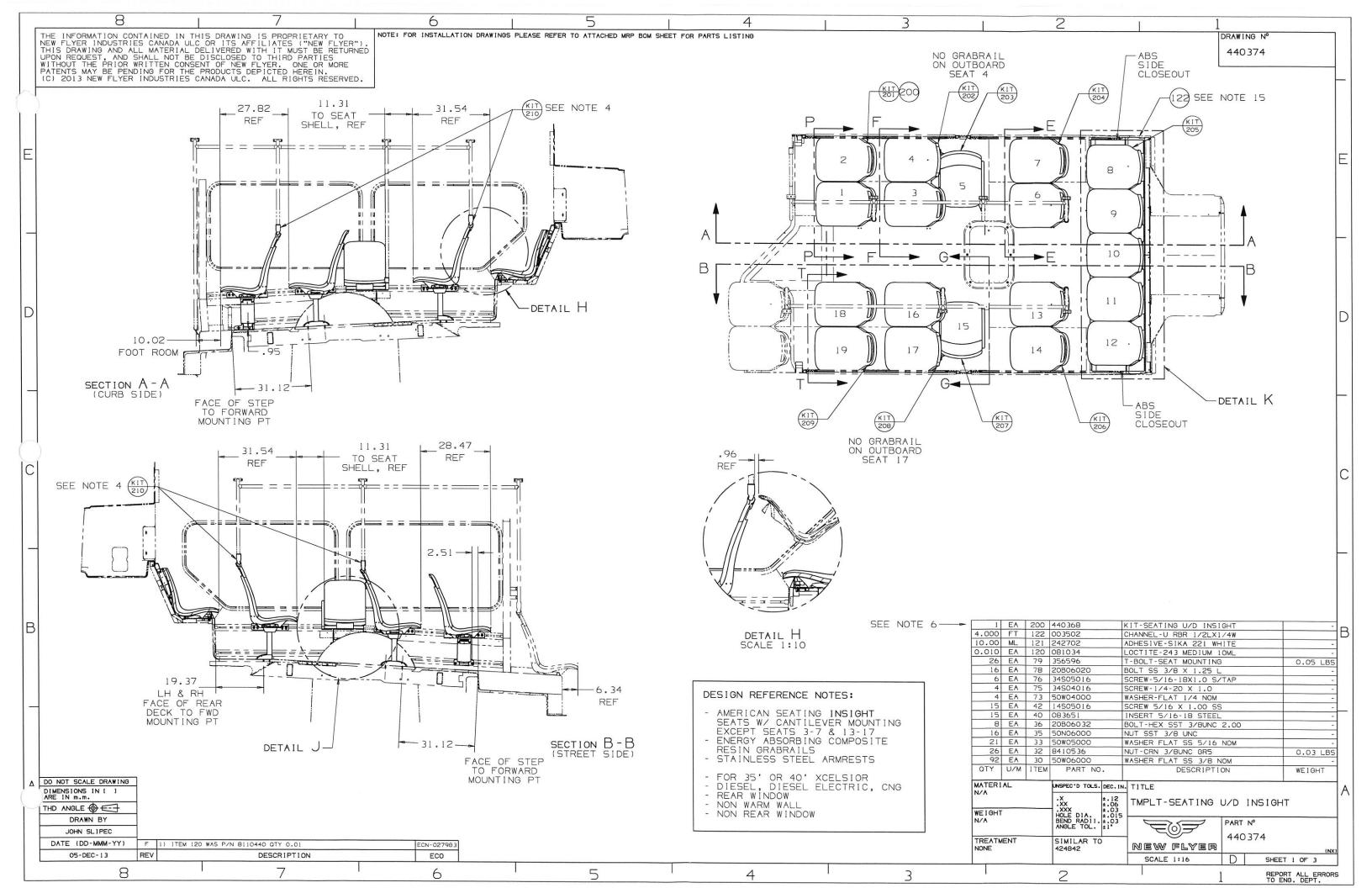
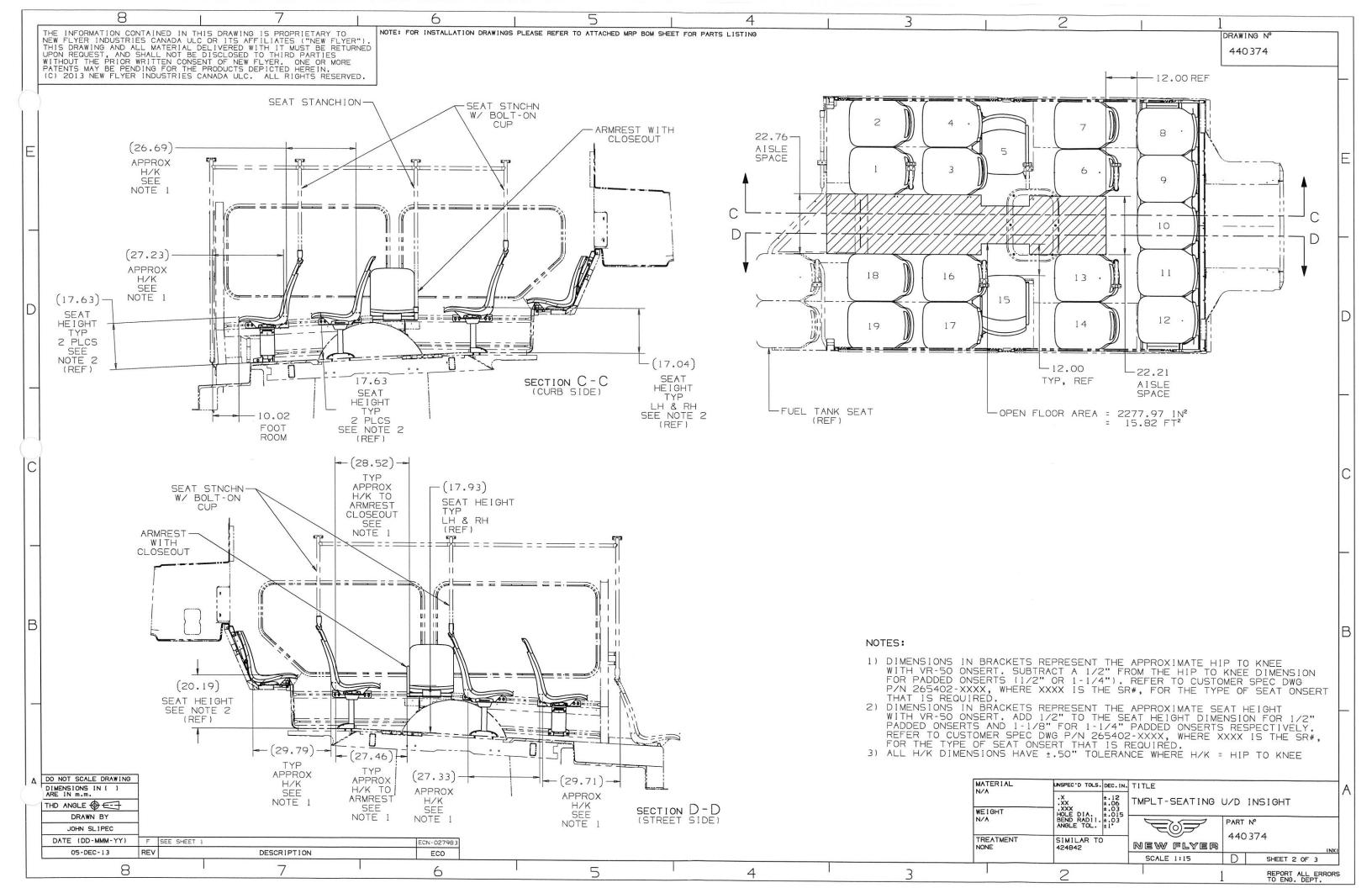
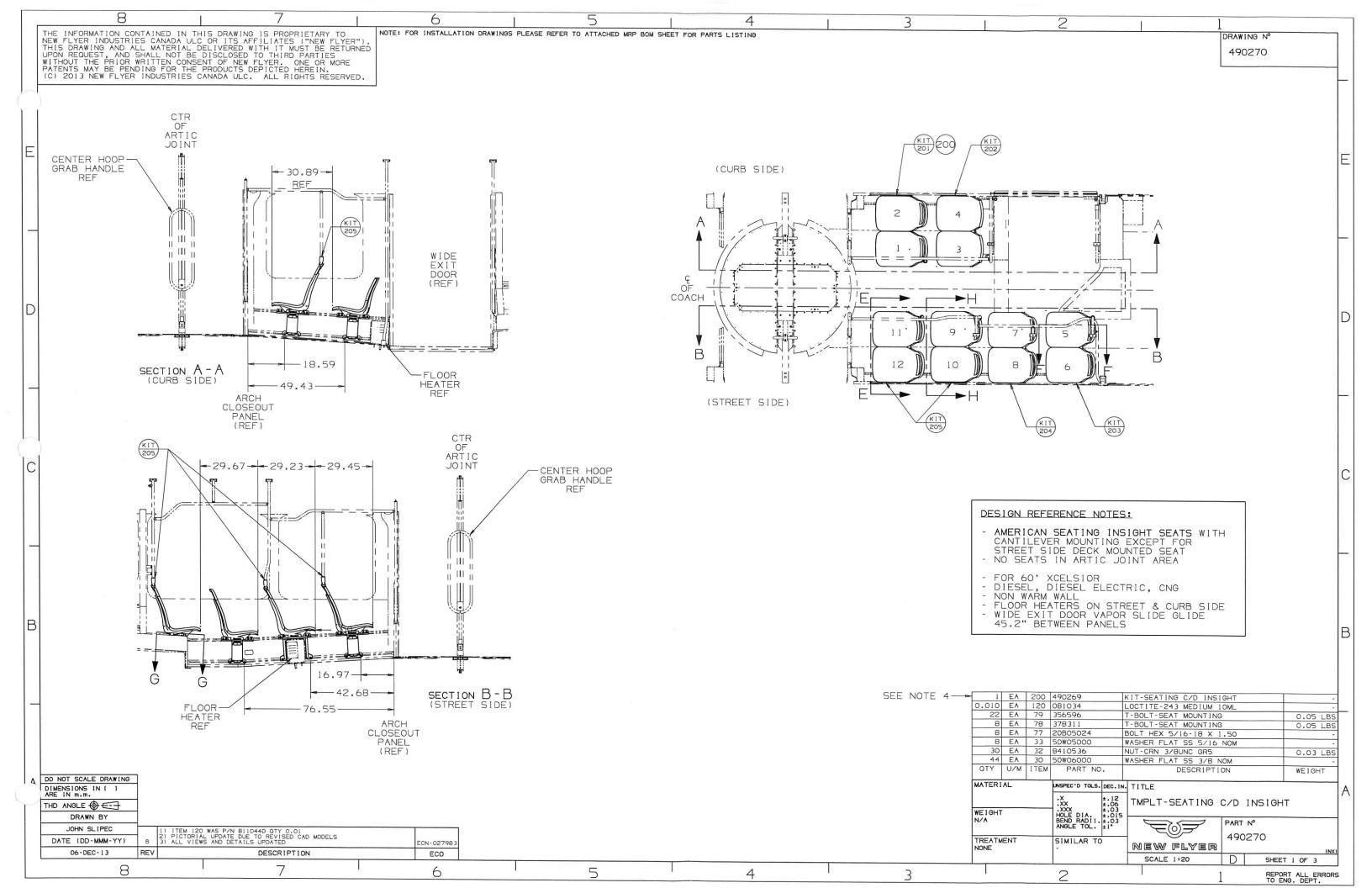


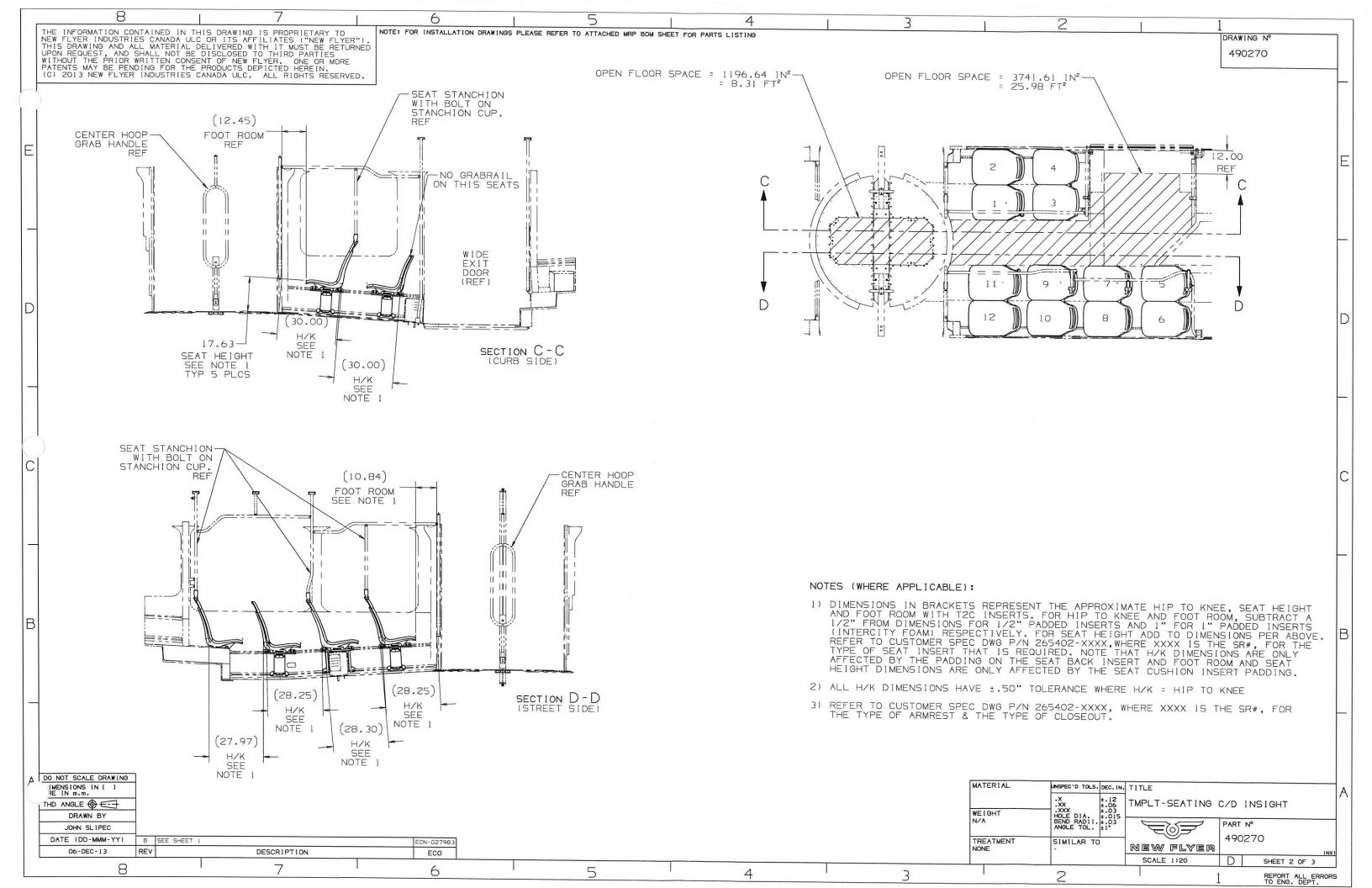
Fig. 17-12: Seating Layout

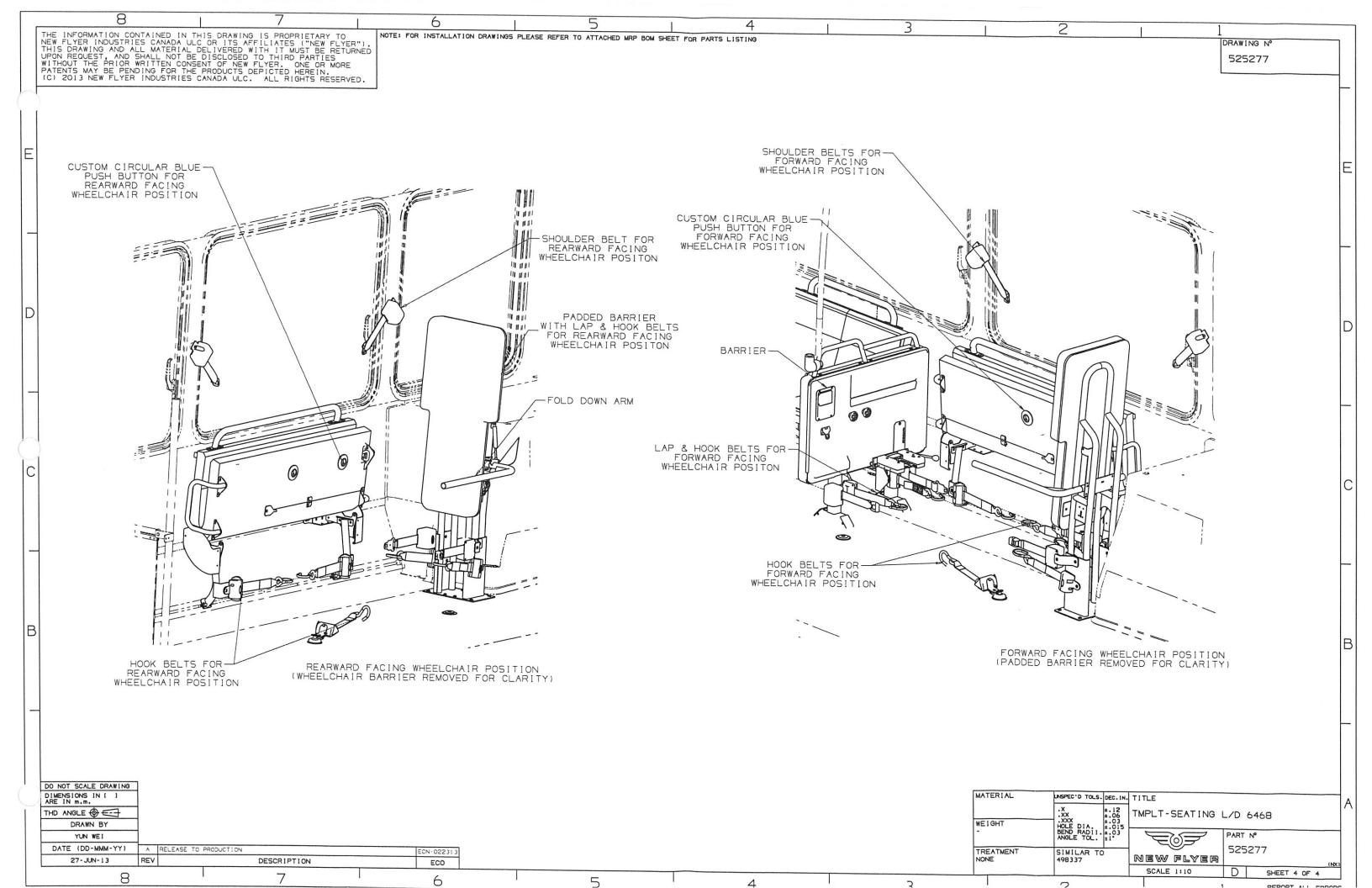
















SALES INFORMATION BULLETIN

#580-001 | Model: Xcelsior | Lengths: All | Propulsions: All

Genuine New Flyer Wheelchair Ramp

Product Features

New Flyer's patented wheelchair ramp design is a flip-out, aluminum, non-slip platform located at the entrance door of the bus. While this ramp is based on our reliable New Flyer ramp that has been in revenue service since 1993, it has been improved to now be a self-contained modular system.

The ramp system consists primarily of four components:

- Stainless steel ramp box and aluminum cover
- Hydraulic pump, reservoir and integrated manifold block
- Ramp mechanism assembly (operates entirely within stainless ramp box)
- · Aluminum light-weight non-slip ramp platform

All four components operate to articulate the ramp from the stowed position in the floor to the curb or street level.

Benefits

- Industry-leading 1:7 slope that significantly exceeds ADA regulations
- Designed with the manual operation feature to ensure that the bus will remain in revenue service during an electrical or hydraulic ramp failure

Operations

The ramp is hydraulically operated. It is completely installed within the vehicle floor and structure and is not subjected to road damage. Brake and accelerator interlocks are provided through the opening of any door. A flashing LED light and audible signal at the entrance door serve as a warning to passengers that the ramp is operating. The ramp can also be manually deployed or raised by a pull strap. The wheelchair ramp is powered by its own self-contained hydraulic power source.



Ramp deployed at ride height street level



Ramp deployed kneeled (1:7) street level





SALES INFORMATION BULLETIN

Operating Procedures

Operator's control is located on the lower right side of the driver's instrument panel. A guarded three-position switch performs the following functions:

1. Deploy

This position turns the pump on and sends a flow of oil through the manifold block to the ramp mechanism assembly. The ramp then moves from the stowed position and starts through its arc until fully deployed.

2. Float

This is the normal position of the switch and, in this position, the hydraulic pump is inoperative. The ramp will float to either the DEPLOY or STOW position. Manual operation is possible in the FLOAT position.

3. Stow

This position turns the pump on and sends a flow of oil through the manifold block to the ramp mechanism assembly to move the wheelchair ramp into the stowed position (flush with the floor).

Service / Repair

The self-contained, modular design of this ramp allows for quick removal and installation of the ramp via eight mounting bolts and one electrical connector. The harness removal can only be done at the front of the bus through the service panel (or defrost service panel). To remove the harness, two ty straps need to be cut off and then the two connectors need to be disconnected. The harness conduit retaining nut needs to be removed and each of the two connectors need to be pulled through the retaining nut separately. Two p-clips will need to be removed from under the bus structure to free the harness. This allows bench servicing if a ramp system requires repair.

The stainless steel box protects the inner components from the damaging effects of being exposed to the elements.

Testing

Durability testing: This new design has been cycled 50,000 times which equates to a 12 year life span.

Warranty

Genuine New Flyer wheelchair ramps have a warranty of one year or 50,000 miles (80,467 km).

SPECIFICATIONS

Width	32.00 inches (81.28 cm)
Length	47.50 inches (120.65 cm)
Length Beyond Bus Body	44.73 inches (113.61 cm)
Supporting Load	660 lbs. (299.40 kg)
Degree of Slope kneeling position	8° degrees to grade
Degree of Slope kneeling position (to a 6 inch curb)	2° degrees to curb
Operation Switch (3-Pole Toggle)	1. "Deploy 2. "Float" 3. "Stow"
Туре	Hydraulic (electrically powered)
Cycle Times 1. Deploy 2. Stow 3. Total	10 seconds 10 seconds 20 seconds
System Fluid Capacity	1 quart (946.35 ml)
Hydraulic System	Independent Hydraulic Power pack w/ Integrated Manifold
Hydraulic Fluid	ATF
Operating Hydraulic Pressure	1800 psi
Hydraulic Cylinder	One (deploy & stow)
Hydraulic Cylinder Size	1.5" (38.1 mm)dia. Bore x 3.5" (88.9 mm) Stroke 0.75" (19.05 mm) dia. Rod Double acting welded construction 2500 psi (working pressure rated)
Weight of Complete Lift Assembly	130 lbs (58.97 kg)

