

April 04, 2014

Prepared For:
Alcoa City Schools
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(865)984 - 0531
Reference ID: N/A

Presented By:
CUMBERLAND INTERNATIONAL TRUCKS, INC.
Janelle Liechty
1901 LEBANON PIKE
NASHVILLE TN 37210 -
(615)256-4633

Thank you for the opportunity to provide you with the following quotation on a new IC Corporation vehicle. I am sure the following detailed specification will meet your operational requirements, and I look forward to serving your business needs.

Model Profile
2015 INTEGRATED CE S BUS (PB105)

APPLICATION:	School Transportation, Special Needs
MISSION:	Requested GVWR: 29800. Calc. GVWR: 23500 Calc. Start / Grade Ability: 20.29% / 1.78% @ 55 MPH Calc. Geared Speed: 76.2 MPH
FUEL ECONOMY:	N/A
DIMENSION:	Wheelbase: 217.00, CA: N/A, Axle to Frame: 126.00
ENGINE, DIESEL:	{Cummins ISB 200} EPA 10, 200 HP @ 2400 RPM, 520 lb-ft Torque @ 1600 RPM, 2600 RPM Governed Speed, 200 Peak HP (Max) School Bus Only
TRANSMISSION, AUTOMATIC:	{Allison 2500_PTS} 5th Generation Controls; Wide Ratio, 5-Speed, With Overdrive; Less PTO Provision, Less Retarder, With 33,000-lb GVW & GCW Max. School Bus
CLUTCH:	Omit Item (Clutch & Control)
AXLE, FRONT NON-DRIVING:	{Meritor MFS-08-153B} I-Beam Type, 8,000-lb Capacity
AXLE, REAR, SINGLE:	{Meritor MS-17-14X-3DFL} Single Reduction, 15,500-lb Capacity, With 190 Wheel Ends Gear Ratio: 5.57
TIRE, FRONT:	(2) 11R22.5 G662 FUEL MAX (GOODYEAR) 497 rev/mile, load range H, 16 ply
TIRE, REAR:	(4) 11R22.5 G662 FUEL MAX (GOODYEAR) 497 rev/mile, load range H, 16 ply
SUSPENSION, RR, SPRING, SINGLE:	Vari-Rate; 15,500-lb Capacity, With 4500 lb Auxillary Rubber Spring
PAINT:	Cab schematic 100NB Location 1: 4421, School Bus Yellow (Std) Chassis schematic N/A

Vehicle Specifications
2015 INTEGRATED CE S BUS (PB105)

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Description

Base Chassis, Model INTEGRATED CE S BUS with 217.00 Wheelbase, N/A CA, and 126.00 Axle to Frame.

TOW HOOK, FRONT (2) Frame Mounted

FRAME RAILS High Strength Low Alloy Steel (50,000 PSI Yield); 10.125" x 3.062" x 0.312" (257.2mm x 77.8mm x 8.0mm); 480.1" (12195mm) Maximum OAL

BUMPER, FRONT Full Width, Aerodynamic, Heavy Duty, Steel

CROSSING GATE, FRONT Electric, Yellow Blade, Bumper Mounted

CROSSMEMBER, REAR, AF (2)

WHEELBASE RANGE 193" (490cm) Through and Including 217" (550cm)

AXLE, FRONT NON-DRIVING (Meritor MFS-08-153B) I-Beam Type, 8,000-lb Capacity

SUSPENSION, FRONT, SPRING Parabolic, Taper Leaf; 8,000-lb Capacity; With Shock Absorbers

BRAKE SYSTEM, HYDRAULIC (Meritor Wabco) Split System, Full Power, With Automatic Adjustment And With Four Channel ABS

BRAKE, PARKING (Bosch) DSSA Drum Type; 12" x 3", Spring Actuated; for Hydraulic Brake Chassis; Activated by Parking Brake Knob on Instrument Panel; With Key Switch Interlock, Park Brake Cannot be released Until Ignition Switch is in "On" Position; Differential Mounted

TRACTION CONTROL, HYDRAULIC Automatic; With Full Power Hydraulic Brake System

BRAKES, FRONT, HYDRAULIC DISC Quadraulic; four 70mm Diameter Pistons

BRAKES, REAR, HYDRAULIC DISC Quadraulic; four 70mm Diameter Pistons

PARKING BRAKE CONTROL for Automatic Actuation; Parking Brake cannot be released Until Ignition Switch is in the "ON" Position and the Service Brakes are Applied, Includes Dual Neutral Use With Allison 1000 and 2000 Transmission and Hydraulic Brake Only

GVWR LIMITATION FOR BUS With Hydraulic Brakes, Limited to 29,800-lbs Maximum to meet FMVSS 105 Requirements, for Conventional Bus

STEERING COLUMN Tiltting

STEERING WHEEL 2-Spoke, 18" Diam., Black

STEERING GEAR (TRW (Ross) TAS-40) Power

EXHAUST SYSTEM Inline, Horizontal Aftertreatment Device Frame Mounted Right Side, Includes Long Horizontal Tail Pipe

TAIL PIPE Long Horizontal, Exits Right Side Through Bumper

ELECTRICAL SYSTEM 12-Volt, Standard Equipment

HORN, ELECTRIC (2)

ALTERNATOR (Lecce-Neville 14931PAH) Brush Type, 12 Volt 320 Amp. Capacity, Pad Mount

BATTERY SYSTEM (International) Maintenance-Free, (3) 12-Volt 1950CCA Total

BATTERY BOX Steel, With Sliding Tray, 25.25" Wide, for Standard Batteries, Mounted Left Side Behind Front Axle Perpendicular to Frame Rail

HEADLIGHTS Halogen; Composite Aero Design for Two Light System; Includes Daytime Running Lights

STARTING MOTOR (Delco Remy 38MT Type 300) 12 Volt; less Thermal Over-Crank Protection

INDICATOR, LOW COOLANT LEVEL With Audible Alarm

HEADLIGHT WARNING BUZZER Sounds When Head Light Switch is on and Ignition Switch is in "Off" Position

HOOD TILT ASSIST (EASY TILT) Mechanical

FRONT END Tiltting, Fiberglass, With Three Piece Construction

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PAINT SCHEMATIC, PT-1 Single Color, Design 100

PAINT TYPE Urethane, One or Two Colors, Other than Imron or International.

CLUTCH Omit Item (Clutch & Control)

ENGINE, DIESEL (Cummins ISB 200) EPA 10, 200 HP @ 2400 RPM, 520 lb-ft Torque @ 1600 RPM, 2600 RPM Governed Speed, 200 Peak HP (Max) School Bus Only

FAN DRIVE (Borg-Warner SA-75) Viscous Type, Screw On

THROTTLE, HAND CONTROL Electronic

RADIATOR Aluminum; 2-Row, Cross Flow, Over Under System, 717 SqIn Louvered, With 313 SqIn Charge Air Cooler. With In-Tank Transmission Cooler

AIR CLEANER With Service Protection Element

GOVERNOR Electronic Road Speed Type; for Electronic Engines and Bus Models; With 55 MPH Default

EMISSION COMPLIANCE Federal, Does Not Comply With California Clean Air Idle Regulations

FEDERAL EMISSIONS EPA, OBD and GHG Certified for Calendar Year 2014; ISB Engines

TRANSMISSION, AUTOMATIC (Allison 2500_PTS) 5th Generation Controls; Wide Ratio, 5-Speed, With Overdrive; Less PTO Provision, Less Retarder, With 33,000-lb GVW & GCW Max. School Bus

TRANSMISSION OIL Synthetic; 20 thru 28 Pints

SHIFT CONTROL PARAMETERS Allison Load Based Shift Schedules (LBSS)

AXLE, REAR, SINGLE (Meritor MS-17-14X-3DFL) Single Reduction, 15,500-lb Capacity, With 190 Wheel Ends . Gear Ratio: 5.57

SUSPENSION, RR, SPRING, SINGLE Vari-Rate; 15,500-lb Capacity, With 4500 lb Auxillary Rubber Spring

SHOCK ABSORBERS, REAR (2)

FLAT FLOOR EFFECTS for Steel Spring Suspension; With Conventional Bus Models

FUEL TANK Top Draw; Rectangular Steel, 65 U.S. Gal., 246 L with Protective Cage, Mounted Right Side

DEF TANK 12 U.S. Gal. 45.4L Capacity, Frame Mounted Outside Right Rail

COWL Flat Back

GAUGE CLUSTER English With English Electronic Speedometer

IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster

GAUGE, DEF FLUID LEVEL

WHEELS, FRONT DISC; 22.5" Painted Steel, 2 Hand Hole, 10 Stud (285.75MM BC) Hub Piloted, Flanged Nut, Metric Mount, 8.25 DC Rims; With Steel Hubs

WHEELS, REAR DUAL DISC; 22.5" Painted Steel, 2 Hand Hole, 10-Stud (285.75MM BC) Hub Piloted, Flanged Nut, Metric Mount, 8.25 DC Rims; With Steel Hubs

BODY, BUS Conventional; 78" Headroom, 26'8" Body Length, +9 Section Front and Rear, 54 Passenger, 217/218 WB

BODY TAG, METAL Capacity to Include the Total Number of Passengers

STEP, FRONT ENTRANCE DOOR 25 3/4" Depth; 14ga Steel

HEADLINER, BODY 22ga., CQ Stucco Full length Non Perforated With Sound Insulation Full Length

FASTENERS, HEADLINER Screws

BOWS, ROOF 14 ga., One Piece Construction

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Description

LIGHT BARS Plastic

SKIRT, BODY for Conventional, 14 1/2", 16ga

TIE DOWNS, BODY Grade 8 Bolts, Every Body Section

RUB RAILS, BODY (3) 16ga., Steel

BODY, REAR Includes Emergency Door

SIDE SHEET, BODY, EXTERIOR Conventional, 16ga., Smooth, 25'2", 25'11", 26'8", 27'5", Body Length

FLOOR, BODY Flat

SUPPORTS, REAR BUMPER Bolted to Frame

BUMPER, REAR Painted; 12" High, 3/16" Thick, With 7" Hole for Exhaust

LINING, SIDE INTERIOR, LOWER Embossed Steel, Clear Coated

SEALER Water-proof Sealer on all Floor Covering Seams

FASTENERS, REAR DOOR Lag Screws, Rear Door To Body

COVER, REAR DOOR INSIDE HANDLE Partial Coverage

HANDLE, EXTERIOR, LIFT DOOR Single Door, Yellow

HANDLE, ASSIST, ENTRANCE DOOR Outside Entrance

HOLD BACK, REAR DOOR Stationary, No Cables, With Plastic Cover

LATCH, LIFT DOOR Single, Three Point Slide Bar

LATCH, REAR DOOR One Point Slide Bar, Cam Operated, with One Inch Stroke

HANDLE, EXTERIOR, REAR Emergency Door; Yellow

DOOR, ENTRANCE, FRONT Electric, Outward Opening, with Split Pane Glass

SWITCH, LOCATION Steering Wheel; Includes Master Flasher, Flasher ON/OFF, Red Override, and Door Control

DOOR, LIFT Single, 43" x 69.79", Mounted Aft of Rear Wheel Pocket, With 78" Headroom

HOLD DOWN, BATTERY For (2) Standard Size Batteries

MONITOR, POST TRIP INSPECTION {Leave No Student Behind} Accessory Controlled, With Push Button Alarm Disable at Rear of Bus
Prompts Driver to Walk to Back of Bus and Push Button in Light Bar to Deactivate System

INSULATION, ROOF AND SIDES 1.50", All Models

UNDERCOAT, BODY Fire Resistant, Water Based, TT-C-730 Spec

INSULATION, STEPWELL

LETTERS, DOOR, REAR Decals; "EMERGENCY DOOR", 2" Black Letters Inside and Outside

DECAL, HANDICAP (2) 6" x 6", Rear Door Between Top and Bottom Glass, and on Left Front Bumper

LETTERS, SCHOOL BUS FRONT/REAR Decal; "SCHOOL BUS"; With 8" Black Reflective Letters, Reflexite V82, On Front and Rear Cap

STRIPING, PERIMETER, REAR Emergency Door; Reflective, Yellow

STRIPING, REAR END Reflexite 2"

STRIPING, SEATLINE 2" Reflexite V82

WIRING DIAGRAM Schematic, Electrical

LETTERS, HEADER Decal; "WATCH YOUR STEP", 1" Black, Above Windshield

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LETTERS, STEPWELL Decal, "WATCH YOUR STEP", 2.5" Black, Behind Door on Step Riser

PAINT RUB RAILS 0001 Canyon Black

SEAL, RUB RAILS Top Edge, All Rails

PAINT COLOR, BODY EXTERIOR 4421 Yellow, SBNS

PAINT FLASHER BACKGRD 0001 Canyon Black

PAINT COLOR, BUMPER Rear, 0001 Canyon Black

PAINT, RUB RAIL Flange to Flange

PAINT COLOR, BODY INTERIOR 9384 Spring White

OPERATING INSTR, REAR Decal, Inside Rear Emergency Door

STRIPING, K/O WINDOW, LEFT (01) Perimeter, Reflexite V82

STRIPING, K/O WINDOW, RIGHT (01) Perimeter, Reflexite V82

LETTERS, K/O WINDOW, LEFT (01) Decal, "EMERGENCY EXIT", Yellow and Black, Reflective 2" Letters, Readable Inside and Outside, Applied Outside Only

LETTERS, K/O WINDOW, RIGHT (01) Decal, "EMERGENCY EXIT", Yellow and Black, Reflective 2" Letters, Readable Inside and Outside, Applied Outside Only

LOGO, ROOF LINE Decal; Wng and Shield, First Body Section, Above Driver Window and Entrance Door Over Driver Window and Entrance Door

BODY CERTIFICATION TAG Mylar Label, with Actual Tire Load Rating

HANDLE, ASSIST Windshield Side Mounted, Left and Right, Body Color

LETTERS, DEF, I.D. Decal; "DEF ONLY", 1" Black, on DEF Filler Door

SUB FLOOR, PLYWOOD Conventional; B-C Exterior Grade, Less Sealed Edges, 5/8", 5 Ply, for 25'2", 25'11", 26'8" or 27'5" Body Lengths

SEAT BELT, DRIVER, COLOR With Blaze Orange Seat Belt Webbing

WINDOW, DRIVER Laminated, Clear

WINDOW, STOPS 12" Opening, Only With 78" Headroom

WINDOW, SASH (8) 27" Sections, 9"x 23" Opening

WINDOW, K/O, LEFT (01) Vertical Hinge

COLOR, WINDOW FRAME, PASS Passenger Window, Natural Aluminum Finish

WINDOW, K/O, RIGHT (01) Vertical Hinge

WINDOW, PASSENGER, TINT Clear, Tempered Glass

HEATER, DRIVER 90,000 BTU, with Defroster and Without Rear Heat Duct

AISLE POSITION Center, for balanced seating

WINDSHIELD 3 Flat Pieces, 73% Light

FLOOR COVERING, COLOR Black

UPHOLSTERY, PASS SEATS, TYPE Prevail, 42 oz.; for (07-08) Seats

FLOOR COVERING, TRIM Aluminum

FLOOR COVERING, TYPE {Koroseal} All Body Lengths

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HEATER, STEPWELL 50,000 BTU
HEATER, PASS, LT MIDSHIP 2ND 50,000 BTU
HEATER, WATER PUMP (2MPU 12) Self Priming, With Plastic Housing
HEATER CUT OFF, VALVE Gate 3/4"
ROOF VENT, FRONT Static
UPHOLSTERY, DRIVER SEAT, STYLE Plain, With Cloth Insert
UPHOLSTERY, DRIVER SEAT, COLOR Drivers Seat, Gray
UPHOLSTERY, PASS SEATS, COLOR Gray, for Seats, Barriers and Head Bumpers
UPHOLSTERY, DRIVER SEAT, TYPE Vinyl, 42 oz.
UPHOLSTERY, BARRIER, TYPE (1-2) Prevail, 42 oz.
BARRIER, CRASH, AFT DRIVER 39", 1 Leg
PANEL, MODESTY, AFT OF DRIVER Mounted Under Barrier
HAND RAIL, ENTRANCE DOOR, AFT 1" OD, Gloss Black, 4", Above Step
CUSHION, SEAT 15" Depth
UPHOLSTERY, SEAT, STITCHING Single
STEP TREADS (Koroseal) Pebble Top With White Nosing, With Non-Metal Backing
SEAT,PASS,LT,39",2 LEG (04)
SEAT,PASS,RT,39",2 LEG (04)
ROOF HATCH, FRONT (Transpec 1975-028-121-03) With Outside Release, With English Decals
SEAT BACK, PASSENGER High Back
SEAT, DRIVER (National ABTS 2000) Static, Pedestal Base, High Back With Integral Headrest, 3 Point Lap and Shoulder Belts, With Adjustable Lumbar
LIGHTS, BACK UP (2) 7" Diameter, Clear
LIGHTS, DIRECTIONAL, REAR (2) 7" Amber, Without Arrow
LIGHTS, WARNING (8) Quartz Halogen Beams, 7", 2 Front, 2 Rear, Red and Amber Lights
LIGHTS, TAIL, LICENSE PLATE (2) 4" Red With Light Window
LIGHT, LIFT DOOR Exterior; Light Mounted Above Lift Door Activated By Opening Lift Door
LIGHTS, MARKER, FRONT, REAR (4) Two Amber Front and Two Red Rear, Single 1500 Hour 3cp Bulb Each Light
LIGHTS, STOP (2) and Tail, 7" dia., Red
CONNECTION, LIGHTS Cluster, Clearance and Side Marker To Tail Lights
SWITCH, DRIVER PANEL, TYPE Rocker
CIRCUIT, PROTECTION Fuse, Electrical System
ALARM, BACKING (Ecco #850) 112 db
SWITCH, REAR DOOR BUZZER for Emergency Door
LIGHTS, DOME Rectangular Recessed Type; Stagger Mounted in Light Bars
LIGHT, LIFT DOOR, INTERIOR Above Lift Door, With Door Operated Switch

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LIGHT, STEP Wired to Clearance Lights

LIGHT, INDIC, WARNING LIGHTS Red and Amber

LIGHTS, DIRECTIONAL, SIDE (2) {Truck Lite 1200Y} Yellow, One Each Side First Section Aft Entrance Door

FLASHER SYSTEM (8) Warning Lights, 8-Lamp System, Electronic Relay Flasher, Non-Sequential Operation, Red Lights Activate With Door Open

LIGHT, EXTERIOR, CHECK Automatically Activates Lights for Pre Trip Inspection

LIGHTS, MARKER, SIDE Intermediate, Single Bulb, Centered, 3cp, 1500 HR Bulb, Required for Units 30 Foot or Longer

LIGHTS, CLUSTER {Truck Lite 07045A & 07045R} LED; Amber Front and Red Rear

MIRROR, REAR VIEW, EXTERIOR {Rosco} Open View, Black, Non-Detent

STOP ARM, FRONT {Specialty} Electric, 18" Octagon, Double Sided, 1/2" White Border, Engineering Grade, Flashing Red Incandescent Lights

MIRROR, INSIDE 6" x 30", Clear Safety Glass, Metal Back, Round Corners

MIRROR, CROSS VIEW, EXTERIOR Black, Rosco, Pair

VISOR, INTERIOR, LEFT FRONT 6" x 30", Transparent, For Left Windshield

CUTTER, SEAT BELT (2) {Knife for Life} for Cutting Seat Belts

KIT, FIRST AID Metal; 24 Unit, Spec State

SWITCH, NOISE SUPPRESSION Actuator Legend States, "NOISE SUPP ", for Separate Solenoid, With Red Switch in Panel

LIGHT, STROBE ECCO 6550C, low profile, double flash, 4.9" high

KIT, BODY FLUID Tennessee

WINDSHIELD WIPERS (2) Cowl Mounted

SAFETY TRIANGLES Warning Reflectors, Mounted on Front of Drivers Barrier 6" Below Top of Modesty Shield

FIRE EXTINGUISHER, DRIVER AREA 5 lb 2A-40BC Minimum With Flexible Hose and Metal Nozzle

REFLECTORS, REAR (2) 3", Red, Adhesive Back

REFLECTORS, SIDE, REAR (2) 3", Red, Adhesive Back

REFLECTORS, SIDE, FRONT (2) 3", Amber; Adhesive Back, 1 Aft Drivers Window Left, 1 Aft Entrance Door Right

REFLECTORS, SIDE, INTERMEDIATE (2) 3" Amber, 1 Each Side, Below The Third Rub Rail From the Top, Adhesive Back

FUEL FILLER DOOR With Non-Locking Latch

INTERLOCK, LIFT for FMVSS Wheel Chair Interlock Requirements; With Key in "ON Position", Park Brake Must Be Applied, Transmission In Park or Neutral, for Air Brakes, or In Park Only for Hyd Brakes, and Lift Door Must be Opened Before Lift Can be Activated, With Automatic Transmission Only

CERTIFICATE HOLDER (1) 9.375" x 6"; With Transparent Cover

INSPECTION PLATE Fuel Sending Unit 8" x 8" Steel

WINDSHIELD WASHER Kit; 6 Quart Capacity, Bottle

TRACK, TYPE (BRAND) {Sure-Lok L Track}

TRACK, FLOOR LENGTHS 101"-150", With Full Shoulder Track

TIE DOWN, TRACK TYPE {Sure-Lok FE514} Non Retractable

TIE DOWN, TRACK (03) Non Retractable

Vehicle Specifications
2015 INTEGRATED CE S BUS (PB105)

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Description

DEF FILLER DOOR With Non-Locking Latch

STATE OF OPERATION Tennessee

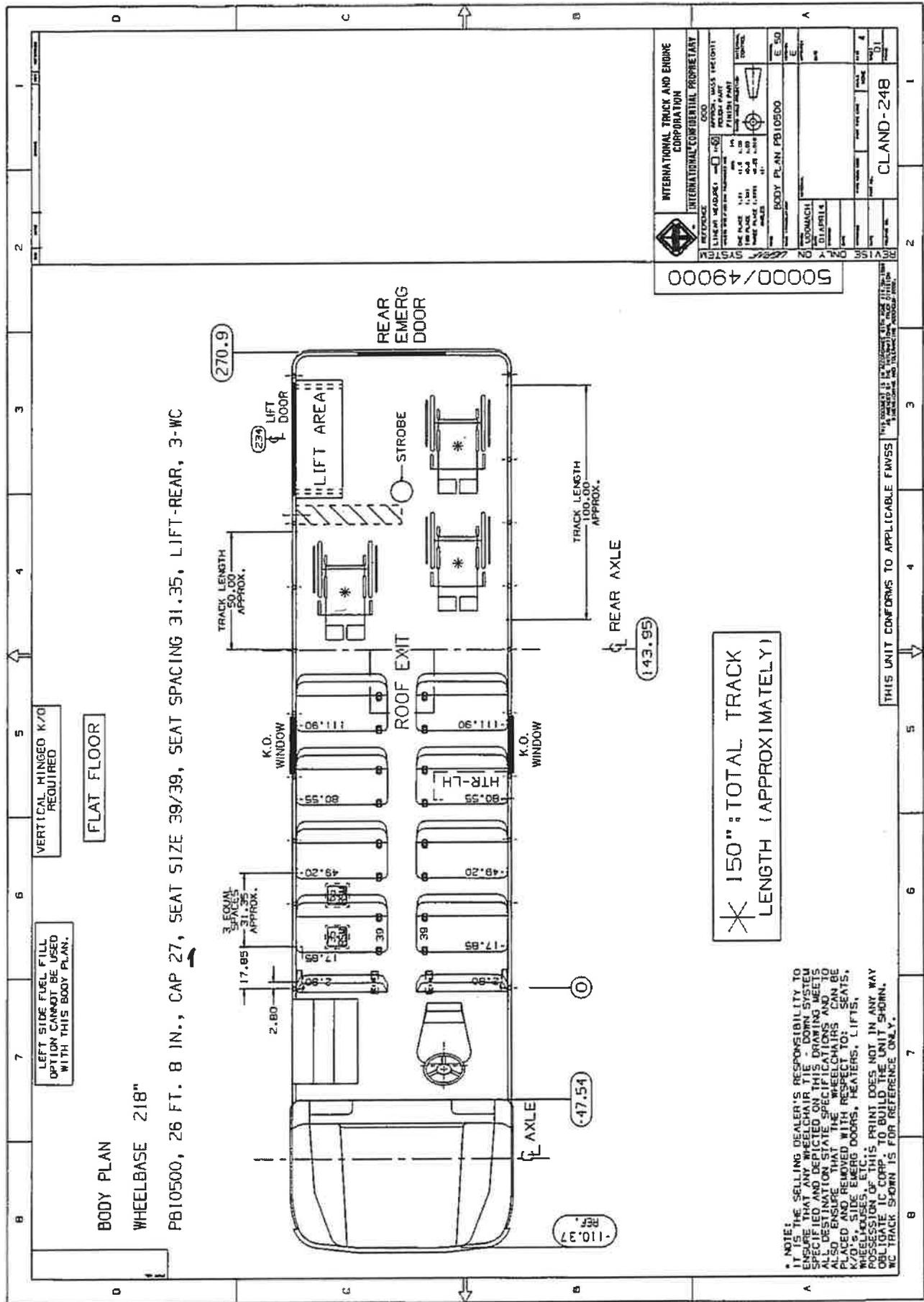
(2) TIRE, FRONT 11R22.5 G662 FUEL MAX (GOODYEAR) 497 rev/mile, load range H, 16 ply

(4) TIRE, REAR 11R22.5 G662 FUEL MAX (GOODYEAR) 497 rev/mile, load range H, 16 ply

BODY PLAN, SPECIAL NEEDS CLAND 247

Services Section:

WARRANTY 5-Year, Limited



VERTICAL HINGED K/O REQUIRED

FLAT FLOOR

BODY PLAN
WHEELBASE 218"

PB10500, 26 FT. 8 IN., CAP 27, SEAT SIZE 39/39, SEAT SPACING 31.35, LIFT-REAR, 3-WC

LEFT SIDE FUEL FILL OPTION CANNOT BE USED WITH THIS BODY PLAN.

* 150" TOTAL TRACK LENGTH (APPROXIMATELY)

NOTE: THE SELLING DEALER'S RESPONSIBILITY TO ENGINEER THE BODY IS THE DRAWING SYSTEM SPECIFIED AND DEPICTED ON THIS DRAWING MEETS ALL DESTINATION STATE SPECIFICATIONS AND TO ALSO ENSURE THAT THE WHEELCHAIRS CAN BE PLACED AND REMOVED WITH RESPECT TO SEATS, WHEELBASES, EMERG DOORS, HEATERS, LIFTS, WHEELBASES. THIS PRINT DOES NOT IN ANY WAY OBLIGATE IC CORP. TO BUILD THE UNIT SHOWN. WC TRACK SHOWN IS FOR REFERENCE ONLY.

INTERNATIONAL TRACK AND ENGINE CORPORATION		CONFIDENTIAL PROPRIETARY	
DATE: 11/24/88	BY: J. J. HARRIS	REV: 1	DATE: 11/24/88
DESIGNED BY: J. J. HARRIS	CHECKED BY: J. J. HARRIS	DATE: 11/24/88	SCALE: 1/8" = 1'-0"
BODY PLAN PB10500		E 50	REV: 1
50000/49000		E 50	REV: 1
CLAND-248		E 50	REV: 1

THIS UNIT CONFORMS TO APPLICABLE FMVSS