

Purchasing Department
1320 West Main Street Suite 202
Franklin, Tennessee 37064-3700
Phone (615) 472-4010



**ADDENDUM I
POST PRE-BID MEETING
WILLIAMSON COUNTY SCHOOLS
RFB # 1194
NEW GENERAL ED & SPECIAL ED SCHOOL BUSES
Fiscal Year 2020-21
Released Thursday, December 05, 2019 @ 11:30 a.m.**

The Pre-Bid Meeting for RFB #1194 New General ED and Special ED School Buses was held for this project on December 4, 2019 at 2:00 p.m. In attendance were the following participants:

1. Jeff Fuller, WCS Transportation Director
2. Joan Breeding, WCS Purchasing Agent
3. Ashley Scurlock, Cumberland International
4. Paula Garner, Central States Bus
5. Chuck LaLance, Mid-South Bus
6. Skip Decker, WCS Purchasing Agent

During the meeting, various items and specifications that were listed on the original bid documents were discussed among the participants. The following items or changes were made, and have been included in this Addendum I. The bid specification sheets that follow also contain some minor changes. **Therefore, all bidders MUST use the REVISED BID COVER SHEETS that are attached to this Addendum I when submitting a bid.**

NOTE: All previous versions of the Bid Cover Sheet & Spec Sheets should be discarded.

1. Under the specification section on page 5 concerning the Angel Trax Hybrid Quest with Hard Drive (included) the following changes concerning the camera locations were made.
 - A. 1 front camera should be mounted mid-way on the opposite side of driver.
 - B. 1 rear camera on drivers' side 3 rows from up from the rear of the bus angled to the right.
 - C. 1 driver step well camera,
 - D. 1 front window facing road camera
 - E. ALL CAMERAS SHOULD HAVE WIDE ANGLE LENSES *this camera configuration should be used on all buses both General Ed and Sp. ED.*
2. APX 4500 RADIO, should now be a two- piece model-configuration (the radio box and a separate panel).
3. The new APX Radio contact information for the sales and service are as follows:
Alex Sherman 615-504-8533 alexander.sherman@motorolasolutions.com

Bids must be submitted in a sealed envelope mailed or hand delivered to Williamson County Schools, 1320 West Main Street, Suite 202, Franklin, TN 37064 Attn: Skip Decker. The outside of the envelope must be marked "RFB #1194 NEW GENERAL ED & SPECIAL ED SCHOOL BUSES". Sealed bid envelopes must be submitted on or before 2:30 pm on Monday, December 16, 2019 at which time sealed bid envelopes will be publicly opened. Bidders MUST use the Revised Bid Cover Sheets attached.

REVISED NEW
BID COVER SHEET
RFB # 1194
New General Ed & Special Ed
Fiscal Year 2020-21

I, _____ (Print Name), _____ (Title),
 _____ (Signature), _____ (Date), verify that I have
 carefully read the specifications, terms, conditions and instructions contained within this document and
 that I understand, acknowledge and agree to all the language set forth in this document... Again, by
 signing this document and submitting my bid in a sealed envelope with Williamson County Schools,
 bidder fully acknowledges, understands and accepts the language contained within this RFB document.
Notice to Bidder – *If you find any of the language, terms, conditions or specifications unacceptable –
 then please do not bid or submit a bid package for this project.*

Bidder Company Name: _____
Address: _____

Phone Number: _____
Email: _____

WILL OTHER SCHOOL DISTRICTS IN THE STATE OF TN BE ALLOWED TO PIGGY BACK
 OFF THIS BID (to the extent the state law will allow)? Yes ___ No ___

ITEM 1

**NEW MODEL Year 2020 or newer – GENERAL ED PASSENGER BUS 84 PASSENGER
 Front Engine Transit Type D (Base bid is without seat belts or seat belt ready frame)**

Model _____ **Brand** _____ **Body** _____
Engine _____ **Model Year** _____ **Chassis** _____

Warranty - Confirm Warranty details on the following spec pages.

BASE BID -BUS UNIT PRICE \$ _____

Option: Cost for Three Point Seat Belt system throughout the bus... \$ _____

Option: Cost for Three Point Seat Belt ready frames throughout the bus...\$ _____

Option: Front and Rear, Air Disc Brakes Additional Cost per bus.....\$ _____

Option: Option to include a stop arm camera\$ _____

Can Bidder Meet the Delivery Deadline? Yes ___ No ___

ATTACH SEAT-LAYOUT AND CONFIGURATION TO BID COVER SHEETS

NAME OF BIDDING COMPANY _____

Revised Bid Cover Sheet

ITEM 2

**NEW MODEL Year 2020 – or newer GENERAL ED PASSENGER BUS 78 PASSENGER
Conventional Type C (Base bid is without seat belts or seat belt ready frame)**

Model _____ **Brand** _____ **Body** _____

Engine _____ **Model Year** _____ **Chassis** _____

Warranty - Confirm Warranty details on the following spec pages.

BASE BID - BUS UNIT PRICE \$ _____

Option: Cost for Three Point Seat Belt system throughout the bus\$ _____

Option: Cost for Three Point Seat Belt ready frames throughout the bus\$ _____

Option: Front and Rear, Air Disc Brakes Additional Cost per bus\$ _____

Option: Include a stop arm camera.....\$ _____

Can the bidder Meet the Delivery Deadline? Yes ___ No ___

ATTACH SEAT-LAYOUT AND CONFIGURATION TO BID COVER SHEETS

ITEM 3

**NEW MODEL Year 2020 or newer – SPECIAL ED 25 PASSENGER BUS
22 (AT 2 PER SEAT) PASSENGER + 3 WC Conventional Type C
(Base bid must include cost of 3-point harness seat belts)**

Model _____ **Brand** _____ **Body** _____

Engine _____ **Model Year** _____ **Chassis** _____

Warranty - Confirm Warranty details on the following spec pages.

BASE BID - BUS UNIT PRICE \$ _____

Option: Front and Rear, Air Disc Brakes Additional Cost per bus..\$ _____

Option: Include a stop arm camera.....\$ _____

Can the bidder Meet the Delivery Deadline? Yes ___ No ___

ATTACH SEAT-LAYOUT AND CONFIGURATION TO BID COVER SHEETS

Specifications Sheets are on the following pages.

CERTIFICATION OF COMPLIANCE WITH THE IRAN DIVESTMENT ACT

Effective July 1, 2016, this form must be submitted for any contract that is subject to the Iran Divestment Act, Tenn. Code Ann. § 12-12-101, et seq., (“Act”). This form must be submitted with any bid or proposal regardless of where the principal place of business is located.

Pursuant to the Act, this certification must be completed by any corporation, general partnership, limited partnership, limited liability partnership, joint venture, nonprofit organization, or other business organization that is contracting with a political subdivision of the State of Tennessee.

Certification Requirements.

No state agency or local government shall enter into any contract subject to the Act, or amend or renew any such contract with any bidder/contractor who is found ineligible under the Act.

Complete all sections of this certification and sign and date it, under oath, in the presence of a Notary Public or a person authorized to take an oath in another state.

CERTIFICATION:

I, the undersigned, certify that by submission of this bid, each bidder and each person signing on behalf of any Respondent certifies, and in the case of a joint bid or contract each party thereto certifies, as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to Tenn. Code Ann. § 12-12-106.

Respondent represents it has the full power, knowledge, and authority to make this Certification and that the signatory signing this Certification on behalf of bidder/contractor has been duly authorized to do so on behalf of the bidder/contractor.

Sworn as true to the best of my knowledge and belief, subject to the penalties of false statement.

Printed Respondent Name Printed Name of Authorized Official

Signature of Authorized Official

Date

Name of Bidder _____ Bus Mfg. Make & Model _____

**WCS RFB # 1194 SCHOOL BUS BID
FISCAL YEAR 2020-21
SPECIFICATIONS FOR GENERAL EDUCATION
84 PASSENGER TYPE D - FRONT ENGINE TRANSIT BUS**

State of Tennessee Specifications Unless otherwise noted must meet all State and Federal School Bus Specifications

BRAND NAMES are used for identification and communication only,
however any deviation from the specifications must be noted as an exception.

Deliver to: Williamson County Schools
Transportation Bus Garage
1771 West Main Street
Franklin, TN 37064
84 Passenger Type D Front Engine Transit

BODY SPECIFICATIONS		TYPE D - FRONT ENGINE TRANSIT BUS	Notes / Comments
1	Seating Capacity	84 Passenger capacity built on a 90 Passenger shell 24"- 29" minimum knee space is acceptable	
2	Seating	Regular seating throughout... No special seating in the front 2 seats. Bus should have 28 total rows.	
3	Headroom	77 inches minimum	
4	Windows	12" x 24" minimum	
5	Emergency Exit Windows	Total Four (4) push out tinted	
6	Windows	Tinted 28% dark with Black Window Trim no exceptions	
7	Windshield	Tinted	
8	Roof	Painted White	
9	Interior Side Panels	Aluminized	
10	Front Service Door	Air Operated - 3 Position Switch	
11	Front Service Door	Outward Opening with Vandal Lock	
12	Steps / Entrance	Korseal White Pebble Top Nosing 3 step with Exterior Guard	
13	Rub Rails	Black - Four (4) each side	
14	Upholstery	Heavy Duty Upholstery fire block, Gray or Brown cloth or vinyl preferred	

BODY SPECIFICATIONS		84 PASS TYPE D - FRONT ENGINE TRANSIT BUS	Notes / Comments
15	Heaters (Including Drivers seat foot warmer)	190,000 BTU Minimum with / removable filter; To include <u>heavy duty booster pump</u> for rear water circulation; dual heater cut off valves	
16	Heater Location	Standard 2 Front 1 Back	
17	Defroster Fans	Two (2) fans (dash mounted)	
18	Body Insulation	1.5 - 2" R-Value 5.5 minimum roof, front, rear & sides	
19	Escape Hatches	Two (2)	
20	Hatch Brand	Transpec or Specialty (low profile)	
21	Warning Lights	With Hoods	
22	Interior Lights	8-10 minimum LED	
23	Air Compressor	18.2 CFM standard	
24	Air Dryer	Bendix AD-IP Heated	
25	Air Tank Drain Valve	3 tank minimum... 4 tanks preferred with 5600 cu.in. Bendix DV-w/heater	
26	Fuel Tank Capacity	100 Gallons Minimum	
27	Fuel Filler Door	Spring Loaded	
28	Fuel Tank Access Plate	Included	
29	Fuel / Water Separator	Racor or Equal with heater	
30	Fuel Tank Location	Between Rails	
31	Battery	1-8 D 1900 CCA or (2) group 31 batteries 2100 CCA minimum or (3) group 31 batteries 2775 CCA minimum	
32	Alternator	240 Min. AMP, Delco, Bosh Brands or 320 AMP on Leece Neville Brands	
33	Tow Hooks	Front and Rear	
34	Chassis Warranty	12 to 24 months – 24,000 miles provide copy with bid	
35	Body Warranty	12 to 24 months – 24,000 miles provide copy with bid	
36	Engine Warranty	5 year 100,000 P & L	
37	Transmission Warranty	7 year Unlimited Miles P & L	
38	Axle Warranty	5 year 100,000 P & L	
39	Differential Warranty	5 year 100,000 P & L	
40	Air compressor Warranty	5 year 100,000 P & L	

BODY SPECIFICATIONS		84 PASS. TYPE D - FRONT ENGINE TRANSIT BUS	Notes / Comments
41	Two - Way Radio	Motorola APX 4500 to be installed by Commtech prior to delivery & acceptance to WCS contact Don Claiborne	NEW SPECS THIS YEAR
42	AM/FM Radio	AM / FM Radio with AUX / PA system & clock with speakers	
43	Engine	INLINE - Removable from Front 600 ft lb Torque; Int'l Maxx Force or Cummins ISB Engine that meets or exceeds the horsepower and torque requirements specified herein	
44	Engine Type	Six (6) cylinder diesel	
45	Engine Horsepower	220 – 250	
46	Engine Block Heater	750-1250 Watts w/Front fender receptacle mounted	
47	Engine Warning	Coolant & Oil	
48	Transmission	PTS 2500	
49	Transmission Cooler	Internal or External Cooler	
50	Transmission Fluid	TES 295/Allison Transynd	
51	Front Axle Rating	14,600 lbs. minimum	
52	Rear Axle Rating	23,000 lbs. minimum	
53	Suspension Springs Front	Commensurate w/axle 14,600 lbs minimum	
54	Axle Bearings	Oil Bath	
55	Wheel Type	Hub or Stud Piloted	
56	Rim Size	Radial 8.25 x 22.5	
57	Rim color	Black	
58	Tire Size	11R x 22.5 Load Range H	
59	Acceptable Tires	Bridgestone, Firestone, Goodyear or Hankook Balanced & Aligned	
60	Throttle Control	Electronic - Cruise Control	
61	Fuel Solenoid	Electronic	
62	Steering	4 Position Tilt-Telescope	
63	Brake	Air; Antilock; Automatic slack adjustors or air disc	
64	Brakes Front Size	16.5 x 6 Minimum or air disc	
65	Brakes Rear	16.5 x 8 Minimum or air disc	
66	Strobe Light	Specialty 515-400	
67	Strobe Light Guard	Protective Cage	

Name of Bidder

Bus Mfg. Make & Model

RFB # 1194

BODY SPECIFICATIONS		84 PASS - TYPE D - FRONT ENGINE TRANSIT BUS	Notes / Comments
68	Side Directional Lights	Right & Left Side, side clearance and cluster - include armor	
69	Body ACC Solenoid	100 Amp Minimum	
70	Head Lamps	Daytime Running	
71	Mirror Interior	6" x 30" or similar equivalent	
72	Mirror Rear View	Roscoe or Eurostyle, Motorized & Heated	
73	Mirror Bracket	Break - Away	
74	Cross View Mirror	Roscoe Heated	
75	School Bus Sign	Reflective Material	
76	Head Liner Panels	Driver area perforated add an overhead storage compartment	
77	Drivers Seat	6 way adjustable air; high back; 2 arm rest (left and right)	
78	Fire Extinguisher	5 lb. with hose	
79	First Aid Body Fluids Kit	Standard	
80	Warning Devices	Triangle	
81	Wipers	Electric	
82	Cleaning Windshield	Stirrup steps & handles	
83	Cleaning Windshield	Bottle Washer	
84	Lettering	Black - 6" painted or vinyl Williamson County Schools	
85	Bus Numbers	4-total sides (front-rear) back sides 6 inch both bumpers	
86	Model Number Location	Yellow rear with unit # 6" back bumper right	
87	Model Number Size / Color	3/4 x 3 " yellow painted or vinyl	
88	Mud Flaps	Front and Rear	
89	Luggage Compartment	Single compartment <u>right curb side</u> only, 34 cubic feet with 1 or 2 doors each located between the axles with key lock	
90	Air Horn	Can be mounted on roof or floor chrome or black	

Name of Bidder _____

Bus Mfg. Make & Model _____

RFB # 1194

BODY SPECIFICATIONS		84 PASS - TYPE D - FRONT ENGINE TRANSIT BUS	Notes / Comments
91	Driver Power Outlet	cell phone dash mounted power outlet	
92	Floor Covering	Rubber Korseal Black	
93	Reflective Tape - 2"	Full length sides and floor level	
94	Passenger Reminder System	CRS electronics or RTI bus - scan	
95	Stop Sign	Strobing Upper and lower LED	
96	Seat Color	Prefer Gray or Brown	
97	Handrails	Left and right required	
98	Gauges	Lights in lieu of gauges not acceptable; Gauges include Voltmeter, AMP meter, Oil Pressure, Fuel, Temperature and Air	
99	Crossing Arm	Installed on front bumper, shall be air or electric with magnetic retainer	
100	Training	FREE TRAINING (Diagnostic, Electrical and other) HANDS ON FOR "ALL WCS MECHANICS" in one session	
101	Trash Container & Holding Device	UL Classified fire resistant polyethylene or equivalent material, 14 quart or less, holding device designed to prevent movement and easy removal/replacement, installed in accessible	
102	Noise Suppression Switch	Meet State Standards-dash mounted	
103	Complete Parts List	Provided with Bid using factory pick list w/current cost per item (CD Preferred Windows Version only)	
104	Optional Pricing	Driver - side luggage compartment (same as above)	
105	Alternate Engines (discouraged)	Alternate Engines must list HP & Torque per engine type	
106	EPA Air Pollution Requirements	Provide Detail of Engine including a written copy & diagram of the procedure for meeting current EPA Emission Requirements. List any and all equipment, tools, products or other necessary items that WCS will be required to purchase.	
107	ANGEL TRAX HYBRID QUEST with hard drive included	INTERIOR 4 CAMERA SYSTEM COMPLETELY INSTALLED 1 front camera, 1 rear camera, 1 driver step well camera, 1 front window facing road camera wide angle lens	See first page of addendum I for location details
108	SCHOOL BUS GPS TRACKING	WCS UTILIZES AND REQUIRES ZONAR V4 WITH WIRING HARNESS – The wiring harness should monitor Power On & Off, Door Open & Close, Stop Arm and Reverse.	
See the Camera Specifications which are listed on page 1 of this addendum			
End of 84 Passenger General Ed Front Engine Type D Specifications			

NAME OF Bidder _____ Bus Mfg. Make & Model _____

**WCS RFB # 1194
SCHOOL BUS BID
FISCAL YEAR 2020-21 SPECIFICATIONS FOR GENERAL EDUCATION
78 PASSENGER CONVENTIONAL TYPE C**

STATE OF TENNESSEE SPECIFICATIONS UNLESS OTHERWISE NOTED
MUST MEET ALL STATE AND FEDERAL SCHOOL BUS SPECIFICATIONS

BRAND NAMES are used for identification and communication only,
however any deviation from the specifications must be noted as an exception.

Deliver School Buses to:
Williamson County Schools
Transportation Bus Garage
1771 West Main Street
Franklin, TN 37064

78 Passenger General Ed Conventional Type C

BODY SPECIFICATIONS	78 CONVENTIONAL TYPE C	Notes / Comments
Seating Capacity	78 Passenger capacity	
Seating	First seat on the door side 39" width seat with / (2) ICS with seats for children 22 to 85 lbs. IMMI or CE White, BTI SynTec S3C accepted brands or equal too / better than.	
Headroom	77 inches minimum	
Windows	Shall meet or exceed State of TN BOE standards minimum opening of 12 inches when lowered, passenger windows shall be tinted 28%	
Window Frames	Black anodized	
Emergency Exit Windows	2 per side	
Windshield	Shall meet or exceed State of TN BOE standards shaded and tinted	
Roof	Painted White	
Interior Side Panels	Shall meet or exceed State of TN BOE standards	
Front Service Door	Air Operated - 3 Position Switch	
Front Service Door	Outward Opening with Vandal Lock	
Steps / Entrance	Korseal White Pebble Top Nosing 3 step with Exterior Guard	
Hand Rails	Right and left side handrails	
Upholstery	Fire Block Heavy Duty Upholstery, Gray or Brown preferred	

NAME OF Bidder _____ Bus Mfg. Make & Model _____		RFB # 1194
BODY SPECIFICATIONS	Gen. Ed Conventional Type C	Notes / Comments
Heaters (Including Drivers seat foot warmer)	160,000 BTU min total w/removable filter, to include heavy duty booster pump for rear water circulation, dual heater cut off valves	
Heater Location	Standard 2 Front 1 Back	
Defroster Fans	Two (2) fans (dash mounted) shall meet TN State Board of Education requirements	
Body Insulation	Shall meet or exceed State of TN BOE standards	
Escape Hatches	Two (2)	
Hatch Brand	Transpec or Specialty (low profile)	
Warning Lights	LED on all exterior lights / flush mounted or with armor	
Interior Lights	8-10 minimum LED	
Lamps Monitor	16 – light Monitor LED	
Air Compressor	18.2 CFM	
Air Dryer	Bendix Ad-IP Heated	
Air Tank Drain Valve	3 tanks with minimum of 3400 total combined cu.in. Bendix DV2 w/heater	
Fuel Tank Capacity	100 Gallons Minimum	
Fuel Filler Door	Spring Loaded	
Fuel Tank Access Plate	Included	
Fuel / Water Separator	Cummins or Racor	
Fuel Tank	Electronic controlled fuel solenoid	
Battery	3 – group 31 w 2775 CCA or Greater Total 12 volt 150 AMP Circuit Breaker & Battery Cut off Switch	
Alternator	240 Min. AMP, Delco, Bosh Brands or 320 AMP on Leece Neville Brands	
Chassis Warranty	3 year / 50,000 mile	
Body Warranty	3 year / 50,000 mile	
Engine Warranty	5 year 100,000	
Transmission Warranty	7 year unlimited miles	
Axle Warranty	3 year / 50,000 mile	
Differential Warranty	3 year / 50,000 mile	
Air compressor Warranty	5 year unlimited warranty	
Two - Way Radio	APX 4500 mobile installed 2 piece configuration	
AM/FM Radio	AM / FM Radio with PA system & clock with speakers	

NAME OF Bidder _____ Bus Mfg. Make & Model _____		RFB # 1194
BODY SPECIFICATIONS	General Ed Conventional Type C	Notes / Comments
Engine	INLINE - Removable from Front Six cylinder diesel 600 ft lb Torque; @ 220 H.P. Int'l Maxx Force or Cummins ISB Engine that meets or exceeds the horsepower and torque requirements specified herein	
Engine Horsepower	220 – 250 HP	
Engine Block Heater	750-1250 Watts w/Front fender receptacle mounted	
Engine Warning	Coolant & Oil	
Transmission Size	Allison 2500 Transmission with Basic fuel sense vs. performance or economy	
Transmission Cooler	Internal or External Cooler oil pressure and temp gauge	
Transmission Fluid	TES 295/Allison Transynd	
Front Axle Rating	10,000 - 12,000 lbs. minimum	
Rear Axle Rating	21,000 – 23,000 lbs. minimum	
Suspension Springs Front & Rear	Same Capacity as the axle	
Axle Bearings	Oil Bath	
Wheel Type	Hub Pilot	
Rim Size	Radial 8.25 x 22.5	
Rim color	Black	
Tire Size	11R x 22.5 Load Range H	
Acceptable Tires	<u>Goodyear, Firestone, Bridgestone or Hankook</u> Balanced & Aligned	
Fuel Solenoid	Electronic	
Steering	4 Position Tilt-Telescope	
Brakes	Air; Antilock; Automatic slack adjustors	
Brakes Front Size	16"5 x 5" Minimum	
Brakes Rear	16.5" x 7" Minimum	
Strobe Light	LED Strobing low profile	
Strobe Light Guard	Protective Cage	
Side Directional Lights	Right & Left Side, side clearance and cluster – flush mounted or include armor	
Body ACC Solenoid	100 Amp Minimum	
Head Lamps	Daytime Running Halogen	
Mirror Interior	6 x 30 with back up camera	

NAME OF Bidder _____ Bus Mfg. Make & Model _____		RFB # 1194
BODY SPECIFICATIONS	General Ed Conventional Type C	Notes / Comments
Mirror Rear View	Roscoe or Eurostyle, Motorized & Heated	
Mirror Bracket	Break - Away	
School Bus Sign	Reflective Material	
Head Liner Panels	Driver area perforated overhead storage compartment in header over the windshield	
Drivers Seat	6 way adjustable air; high back arm rest on right & left	
Fire Extinguisher	Shall meet or exceed TN BOE standards	
First Aid Body Fluids Kit	Shall meet or exceed TN BOE standards	
Warning Devices	Shall meet or exceed TN State Board of Ed standards	
Wipers	Electric intermittent with single switch	
Cleaning Windshield	Stirrup steps & handles	
Cleaning Windshield	Bottle Washer	
Lettering	Shall meet or exceed State of TN BOE standards	
Bus Numbers	4-total sides (front-rear) back sides 6 " both bumpers ...Rear Bumper Model Year in yellow 2"	
Drivers Restraint System	Shall meet or exceed TN State BOE specifications	
RUB RAILS	Four (4) painted black	
Mud Flaps	Front and Rear	
Rear Fenders	Yellow metal or Black Rubber	
Drivers Document Compartment	5 pocket barrier with safe cut pouch, with broom holder, concealed hook and loop enclosure to keep items secure in pocket in hook and loop style seat cover only; BESI or equal to or better, to be installed on the barrier seat driver side.	
Air Horn	Can be mounted on roof or floor chrome or black meet or exceed TN State BOE standards	
Interior	Shall meet or exceed TN State BOE standards	
Floor Covering	Rubber Korseal Black	
Reflective Tape - 2"	Full length sides and floor level	
Side skirts	Shall meet or exceed TN State BOE standards	
Stop Sign	Strobing Upper and lower LED	
Handrails	Left and right required	

NAME OF Bidder _____ Bus Mfg. Make & Model _____		RFB # 1194
BODY SPECIFICATIONS	General Ed Conventional Type C	Notes / Comments
Gauges	Lights in lieu of gauges not acceptable; Gauges include Voltmeter, AMP meter, Oil Pressure, Fuel, Temperature and Air	
Crossing Arm	Installed on front bumper, shall be air or electric with retainer	
Training	FREE TRAINING (Diagnostic & Electrical) HANDS ON FOR "ALL WCS MECHANICS" in one session	
Trash Container & Holding Device	UL Classified fire resistant polyethylene or equivalent material, 14 quart or less, holding device designed to prevent movement and easy removal/replacement, installed in accessible	
Noise Suppression Switch	Mounted within easy access to driver, must meet or exceed TN State DOE standards	
Complete Parts List	Web based or printed paper copy to be delivered with bus	
Throttle Control	Electronic Cruise Control	
EPA Air Pollution Requirements	Must meet or exceed State of TN Board of Education Specs. Must also meet or exceed all Federal and local Emission Standards	
Luggage Compartment	Single compartment <u>right curb side</u> only, 34 cubic feet with 1 or 2 doors each located between the axles with key lock.	
See the Camera Specifications listed on page 1 of this Addendum I		
End of 78 Passenger General Ed Conventional Type C		

NAME OF BIDDER _____ BUS MFG. Make & Model _____

WCS RFB # 1194

**SCHOOL BUS BID FISCAL YEAR 2020-21
 REVISED SPECIFICATIONS FOR SPECIAL EDUCATION
 22 (at 2 per Seat) PASSENGER + 3 WC SPECIAL ED 23inch wheel base
 CONVENTIONAL TYPE C**

STATE OF TENNESSEE SPECIFICATIONS UNLESS OTHERWISE NOTED
 MUST MEET ALL STATE AND FEDERAL SCHOOL BUS SPECIFICATIONS

BRAND NAMES are used for identification and communication only,
 however any deviation from the specifications must be noted as an exception.

Deliver School Buses to: Williamson County Schools
 Transportation Bus Garage
 1771 West Main Street
 Franklin, TN 37064

Special ED Passenger Conventional Type C

BODY SPECIFICATIONS		SPECIAL ED PASSENGER TYPE C	Notes / Comments
1	Air conditioning	120,000 total BTU minimum - Include front in wall & rear in wall bulkhead evaporators with skirt mounted condensers. Must include manufacturer's build sheet with parts & model #	
2	Backup Alarm	Minimum of 112 DBS rear bumper area mounted	
3	Belt Cutter	QTY 2 tie tech or safe cut	
4	Body Type	Type C W/WC lift	
5	Bus Model	2020 model or newer	
6	Capacity Design	22 + 3 WC Totaling 25 passengers plus driver	Only 2 seat belts per seat
7	Defroster Fans	2 Dual 6 " dash mounted	
8	Document Holder	plastic attached in front of overhead area	
9	Door Front Service	3 position switch Air Operated - outward opening with vandal lock	
10	Door Lift	Single Door 42" width located in rear	
11	Fenders	Yellow metal or black rubber on Rear Wheels	
12	Fire Extinguisher	5 lb. with hose	
13	First Aid Body Fluids Kit	Meeting TN Minimum standard	
14	5 pocket barrier with safe cut pouch with broom holder	Concealed hook and loop enclosure to keep items secure in pocket in hook and loop style seat cover only; BESI or equal to be installed on the barrier seat driver side.	
15	FLOOR DESIGN SEAT & WHEEL CHAIR LOCATIONS (DELIVERED 22 + 3 WC Passengers)	Each seat shall be 39" in width and shall have an integrated child seat (11 safeGuard ICS with (2) three point seat belts. ICS shall offer security of a five (5) point harness for children 22 to 85 lbs. IMMI , CE White BTI, Syn-Tec 53C or equal to or better than accepted brands. Three (3) WC stations with continuous tracking of 50" one placed at door side and the other driver side.	WCS desires only 2 seat belts per seat . WCS will use the bus as a 22 + 3 WC 25 seat capacity bus.

NAME OF Bidder _____ Bus Mfg. Make and Model _____
RFB # 1194

BODY SPECIFICATIONS		SPECIAL ED PASSENGER TYPE C	Notes / Comments
16	Floor Design	See attached floor design	
17	Floor Covering	Black rubber	
18	Floor covering	Plywood 5/8 exterior grade	
19	Hand Rails	Qty 2 - Left and Right Sides of Step well	
20	Head Line Panels	Full Length Perforated	
21	Headroom	77" Minimum	
22	Heater Rear Location	Approx. 80,000 - 88,000 BTU preferred rear wall mounted with removable filter	
23	Heaters Front & Rear	160,000 BTU min total w/removable filter, to include heavy duty booster pump for rear water circulation, dual heater cut off valves	
24	Identification Lettering	Williamson County Schools / Black on both sides	
25	Identification Numbers Model Year	3/4 x 6" Year & Unit Numbers (buyer will provide unit numbers)	
26	Identification Numbers Bus	4 total sides Front & Rear All Black on sides. Yellow on front & rear bumpers	
27	Identification Disabled Placard	Placed on WC Lift Door	
28	Insulation	1.5 " R-Value min. roof, front, rear & sides 1/2" sound absorbing form installed under drivers footboard perforated ceiling in driver's area	
29	Lamps Head	Daytime Running	
30	Lamps Front & Rear Signal	LED	
31	Lamps Warning	Exterior LED flush mounted or with armor	
32	Lamps Side Marker	LED	
33	Lamps Interior	Four (4) Minimum LED	
34	Lamps Monitor	16 Light Monitor LED	
35	Lamp Strobe	LED Strobing with protective armor	
36	Lift Location	Rear Curb Side	
37	Lift Model	BRAUN MODEL, Century or Millennium or Ricon S-Series; All lifts must past WCS' Pre-delivery FMVSS403 compliancy inspection or the vehicle will not be accepted. The lift will be tested at pre-delivery by WCS with 800 lbs of weight and will be expected to lift and lower it safely 10 times.	
38	Mirror Bracket	Break - away	
39	Mirror Cross View	Roscoe Heated	
40	Mirror Head	Motorized-Heated	

NAME OF Bidder _____ Bus Mfg. Make and Model _____
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BODY SPECIFICATIONS		SPECIAL ED PASSENGER TYPE C	Notes / Comments
41	Mirror Interior	6 x 30 with visor WITH BACK UP CAMERA	
42	Mirror Rear View	Roscoe Eurostyle	
43	Mud Flaps	Front & Rear Wheels	
44	Noise Suppression Switch	Meet State standards - dash mounted	
45	Parts Report	Access to complete list bus parts on a web based program and in print.	
46	Passenger Reminder Location	Warning Buzzer Interior	
47	Passenger Reminder System	Shall meet or exceed all State of TN Board of Ed Standards wired to interior dome lights	
48	Radio AM/FM	AM / FM Radio PA system & clock Include 4 speakers	
49	Radio Two Way & Bracket	Compatible With Motorola APX4500. configuration Contact Commtech for details 2 piece configuration	
50	Radio Two Way Antenna	1/4 wave complete	
51	Radio Two Way Model	Motorola APX 4500	
52	Radio Two Way Installation	Complete installation to be done by Commtech before acceptance by WCS	
53	Radio Two Way External Speaker	KES 3	
54	Radio Two Way Frequency & Tone Control	APX 4500 installed with 2 pc radio configuration	New specs this year
55	Roof	Painted White	
56	Roof Ventilator Emergency Exit	Shall meet or exceed TN State BOE standards	
57	Rub Rails	Four (4) Each Side all painted Black	
58	School Bus Sign	Reflective Material	
59	Seat Driver's	6-Way Adjustable -Air	
60	Seat Driver's	High back; 2 arm rest (right & left) (Please mark exceptions)	
61	Seating Capacity	22 + 3 WC for a total of 25 passengers (plus driver) IMMI, Syn-Tec 53 C or C.E. White Seats	

NAME OF Bidder _____

Bus Mfg. Make & Model _____

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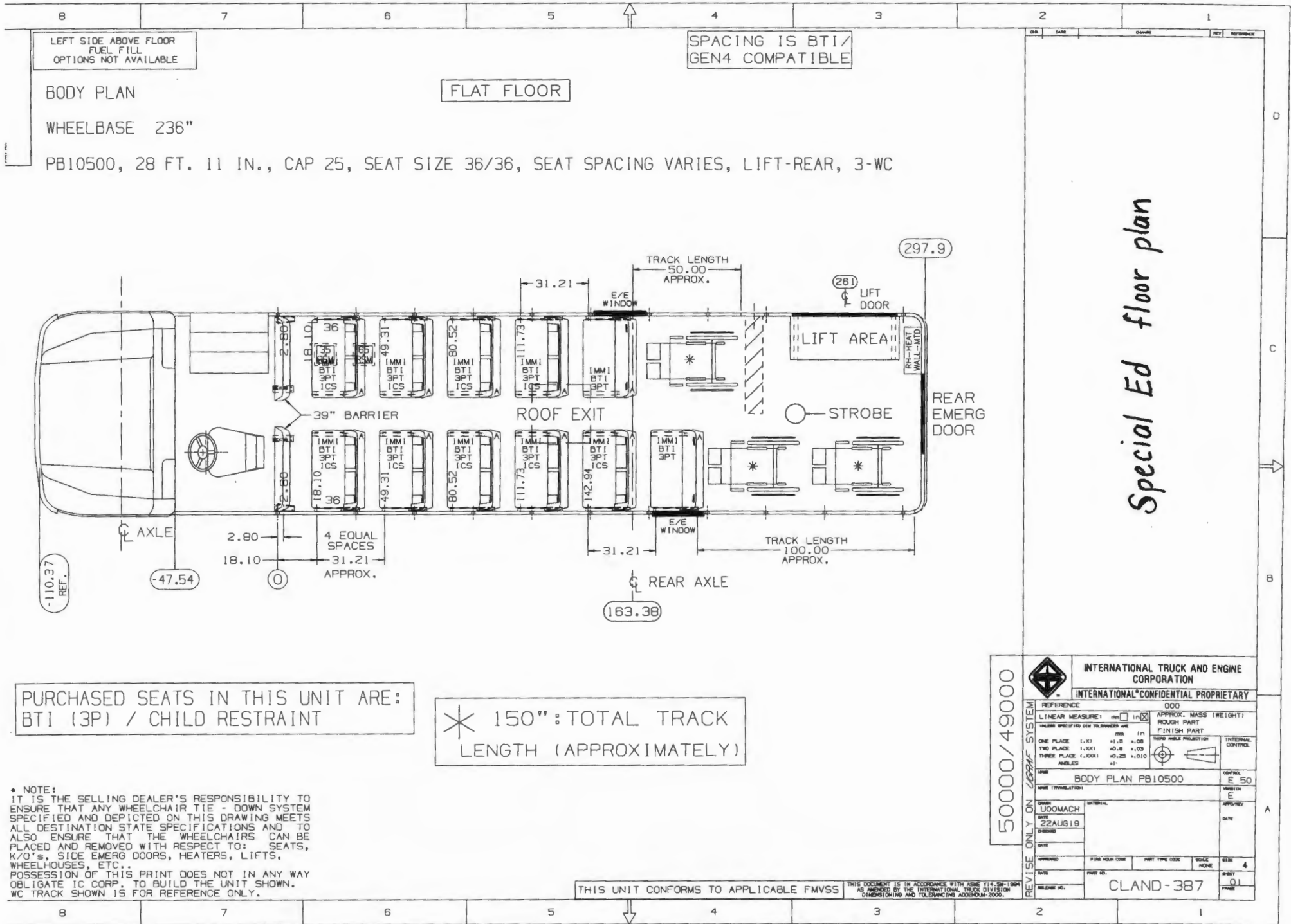
BODY SPECIFICATIONS		SPECIAL ED PASSENGER TYPE C	Notes / Comments
62	Seats & Belts	11 Safe ICS with 2 three point seat belts per seat	
63	Seat Spacing Knee Room	Prefer Maximum Possible - Please include knee spacing in floor plan copy	
64	Seat Upholstery	Fire Block, Heavy duty , Gray or Brown Preferred	
65	Securement Systems	Q' Straint or Sure -lok Kit Model # FF612S-4C-7 2 (2 kits); Auto Retracting - with mounted storage bags on side walls	
66	Side Panels Interior	Aluminized	
67	Solenoid ACC Body	100 Amp Minimum	
68	Steps Entrance	Koroseal White pebble top nosing 3-step	
69	Stop Sign	Strobing upper & lower LED lights	
70	System floor Track	L-Track w/debris cover for unused sections	
71	System floor Track	50 inches per chair space	
72	System floor Track	Recessed in plywood	
73	Warning Devices	Triangle	
74	Warranty Body	3 year 50,000 mile	
75	Wheel Chair Spaces	Three (3) Positioned ready to go	
76	Window Frames	Black Anodized	
77	Windows	12" x 24" minimum	
78	Windows	Dark tinted - 28% Dark	
79	Windows Emergency Exit	1 per side	
80	Windshield	Shall meet or exceed State of TN BOE standards shaded and tinted	
81	Windshield Cleaning	Stirrup Steps & Handles	
82	Windshield Cleaning	Bottle Washer	
83	Wipers	Electric w/ intermittent	
84	Air Compressor	18.7 CFM	
85	Air Dryer	Bendix AD- IP Heated	
86	Air Tank Drain Valve	Bendix DV - 2 Heated	
87	Alternator	Minimum 270 AMP for A/C efficiency using Delco, bosch Brands 320 amp Minimum using LEECE NEVILLE BRAND	

NAME OF Bidder _____ Bus Mfg. Make & Model _____
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BODY SPECIFICATIONS		SPECIAL ED PASSENGER TYPE C	Notes / Comments
88	Axle Bearings	Oil Bath	
89	Axle Front Rating	10,000 lbs. - 12,000 lbs.	
90	Axle Rear Rating & Ration	21,000 lbs. – 23,000 lbs.	
91	Suspension Front	Springs same as the axle	
92	Suspension Rear	Air Ride 21,000 lbs.	
93	Battery	3 group-2775 CCA OR GREATER TOTAL - 12 volt 150 AMP Circuit Breaker & Battery Cut off switch	
94	Battery Box	Must be large enough to handle above battery size as well as all cutoff switches for AC & WC lift	
95	Brakes Front Size	16.5 x 5 minimum	
96	Brakes Rear Size	16.5 x 7 minimum	
97	Brakes	Full air; Anti-lock - all wheel, outer board drum type, with auto slack adjuster	
98	Engine Block Heater	750 watts minimum with receptacle	
99	Engine Horsepower	200 -250 with 600 lb. torque, in line six cylinder	
100	Engine Type	6 cylinder diesel Int'l MAXX FORCE DT - CUMMINS ISB or EQUAL that meets or exceeds the horsepower and torque requirements specified herein	
101	Engine Certification	2020 Model or Newer	
102	Engine Warning Audible	Coolant and oil	
103	EPA Air Pollution Requirements	Must meet or exceed State of TN Board of Education Specs. Must also meet or exceed all Federal and local Emission Standards	
104	Fuel Filler Door	Spring loaded	
105	Fuel Solenoid	Electronic - cut off all body circuits	
106	Fuel Tank Access Plate	Included	
107	Fuel Tank Capacity	Mounted between the frame rails tank 60 gallon capacity	
108	Fuel /Water Separator	Cummins, Racor or Equal	
109	Governor	Road Speed 65 MPH	
110	High / Low Idle Switch	Dash mounted	

NAME OF Bidder _____ Bus Mfg. Make & Model _____
RFB # 1194

BODY SPECIFICATIONS		SPECIAL ED PASSENGER TYPE C	Notes / Comments
111	Keys	2 Common Ignition Keys - Keyed alike 2 Common Auxiliary Keys - Keyed alike	
112	Steering Column	Telescoping - 4 position tilt wheel	
113	Throttle Control	Electronic cruise control	
114	Tire Rim Color	Black	
115	Tire Rim Size	8.25 x 22.5	
116	Tires & Size Range	255/70R Load Range H Low profile	
117	Tires	Goodyear, Firestone, Hankook Balanced & Aligned – Provide certificate of alignment	
118	Tow Hooks	Front & Rear	
119	Transmission	Allison PTS 2500 Series 5-Speed Automatic	
120	Training	FREE TRAINING (Diagnostic & Electrical) HANDS ON FOR "ALL WCS MECHANICS" in one session	
121	Trash Container & Holding Device	UL Classified fire resistant polyethylene or equivalent material, 14 quart or less, holding device designed to prevent movement and easy removal/replacement, installed in accessible	
122	Warranty Air compressor	5 year / 100,000 miles	
123	Warranty Alternator	3 year / 50,000 miles	
124	Warranty Axle	3 year / 50,000 miles	
125	Warranty Chassis	3 year / 50,000 miles	
126	Warranty Differential	3 year / 50,000 miles	
127	Warranty Engine	5 year - 100,000 miles	
128	Warranty Transmission	7 year unlimited	
129	Wheel Base	Approximately 236" wheelbase	
130	Complete Parts List	Web based or printed paper copy to be delivered with bus	
131	ANGEL TRAX HYBRID QUEST with hard drive included	INTERIOR 4 CAMERA SYSTEM COMPLETELY INSTALLED wide angle lenses	See page 1 of this Addendum I
132	SCHOOL BUS GPS TRACKING	WCS UTILIZES AND REQUIRES ZONAR V4 WITH WIRING HARNESS – The wiring harness should monitor Power On & Off, Door Open & Close, Stop Arm and Reverse.	
See the Camera Specifications which are listed on page 1 of this Addendum			
End of specifications for Special Ed Type C			



LEFT SIDE ABOVE FLOOR
FUEL FILL
OPTIONS NOT AVAILABLE

SPACING IS BTI/
GEN4 COMPATIBLE

BODY PLAN

FLAT FLOOR

WHEELBASE 236"

PB10500, 28 FT. 11 IN., CAP 25, SEAT SIZE 36/36, SEAT SPACING VARIES, LIFT-REAR, 3-WC

Special Ed floor plan

PURCHASED SEATS IN THIS UNIT ARE:
BTI (3P) / CHILD RESTRAINT

* 150": TOTAL TRACK
LENGTH (APPROXIMATELY)

• NOTE:
IT IS THE SELLING DEALER'S RESPONSIBILITY TO
ENSURE THAT ANY WHEELCHAIR TIE - DOWN 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,
K/O'S, SIDE EMERG DOORS, HEATERS, LIFTS,
WHEELHOUSES, ETC..
POSSESSION OF THIS PRINT DOES NOT IN ANY WAY
OBLIGATE IC CORP. TO BUILD THE UNIT SHOWN.
WC TRACK SHOWN IS FOR REFERENCE ONLY.

THIS UNIT CONFORMS TO APPLICABLE FMVSS

THIS DOCUMENT IS IN ACCORDANCE WITH ASME Y14.5M-1993
AS AMENDED BY THE INTERNATIONAL TRADE DIVISION
DIMENSIONING AND TOLERANCING ADDENDUM-2000.

50000/49000			INTERNATIONAL TRUCK AND ENGINE CORPORATION	
	INTERNATIONAL*CONFIDENTIAL PROPRIETARY			
	REFERENCE	DOO		
	L. LINEAR MEASURE:1	mm	<input checked="" type="checkbox"/> IN	APPROX. MASS (WEIGHT):
	UNLESS SPECIFIED DIM TOLERANCES ARE	ROUGH PART		
	ONE PLACE (.1X)	MFR	1/7	FINISH PART
	TWO PLACE (.1XX)	+1.5 +.08		THREE PLACE (.1XX)
	THREE PLACE (.1XXX)	+0.8 +.03		INTERNAL CONTROL
	ANGLES	±1		
	NAME	BODY PLAN PB10500		
NAME TRANSLATION	VERSION			
DATE	22AUG19	APPROVE	DATE	
APPROVED	FILE YEAR CODE	PART TYPE CODE	SCALE NONE	
DATE	PART NO.	SCALE	SIZE 4	
RELEASE NO.	CLAND-387			