

RESOLUTION NO. 2013 - 251

A RESOLUTION BY THE BOARD OF COUNTY COMMISSIONERS OF ST. JOHNS COUNTY, FLORIDA, AUTHORIZING THE COUNTY ADMINISTRATOR, OR DESIGNEE, TO PURCHASE AND TO EXECUTE A PURCHASE ORDER FOR ONE NEW 2014 BRAUN AMBULANCE

RECITALS

WHEREAS, the County desires to enter into a contract with Ten-8 Fire Equipment Inc to purchase One 2014 Braun Ambulance; and

WHEREAS, the scope of the project shall consist of the purchase of one Ambulance; and

WHEREAS, through the County's piggybacking off the Florida Sheriff's Association, Florida Association of Counties & Florida Fire Chief's Association contract #11-10-1202, Ten-8 Fire Equipment Inc selected as the most qualified respondent to enter into a contract with the County to perform the work referenced above; and

WHEREAS, the project is being funded by the EMS Department; and

WHEREAS, the County has reviewed the terms, provisions, conditions and requirements of the Contract (attached hereto, an incorporated herein) and finds that entering into the Contract serves a public purpose.

NOW, THEREFORE BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF ST. JOHNS COUNTY, FLORIDA, as follows:

Section 1. The above Recitals are incorporated by reference into the body of this Resolution and such Recitals are adopted as finds of fact.

Section 2. The County Administrator, or designee, is hereby authorized to purchase One (1) New Braun Ambulance from Ten-8 Fire Equipment Inc.

Section 3. The County Administrator, or designee, is further authorized to execute A Purchase Order with Ten-8 Fire Equipment Inc on behalf of the County for the purchase of One (1) New Braun Ambulance as specifically provided in Florida Sheriff's Association, Florida Association of Counties & Florida Fire Chief's Association contract #11-10-1202.

Section 4. To the extent that there are typographical and/or administrative errors that do not change the tone, tenor, or concept of this Resolution, then this Resolution may be revised without subsequent approval by the Board of County Commissioners.

PASSED AND ADOPTED by the Board of County Commissioners of St. Johns County, Florida, this 19th day of November, 2013.

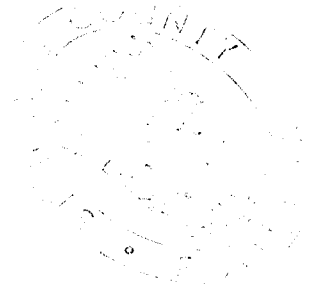
**BOARD OF COUNTY COMMISSIONERS
OF ST. JOHNS COUNTY, FLORIDA**

By: [Signature]
Chair John H. Morris

ATTEST: Cheryl Strickland, Clerk

By: [Signature]
Deputy Clerk

RENDITION DATE 11/21/13





10-22-13

Leigh Daniels
Purchasing Department
St. John's County, St. Augustine, FL

Dear Ms. Daniels,

After further review of our price quote for the purchase of one (1) ambulance/rescue I am offering the following breakdown using the Florida Sheriff's Bid.

Florida Sheriff's Association Extension of Bid # (11-10-1202

Base Price:	\$160,026.00
Per FSA a 3% price increase	<u>\$4,800.00</u> (per FSA extension, see attached)
Total	\$164,826.00
Ambulance Modular Options	<u>73575.00</u>

Total for 2014 unit **\$238,401.00**

Ambulance Modular Options

Note:

The FSA bid is for a base (basic) modular ambulance. St. John's County Fire Rescue has designed the ambulance modular unit with a specific interior and exterior configuration that will accommodate various equipment and operational needs that would be considered in addition to the base bid.

Attached to the price quote submitted to Chief Prevatt were the engineering drawings outlining the specific configuration needed to provide quality EMS services to the people of St. John's County. In addition, there were specific chassis specifications and the detailed ambulance specifications included. Specified equipment was included in the quote.

If you need any additional information please let me know.

Sincerely,
Wayne Stowell
Wayne Stowell
Ten-8 Fire Equipment
727-647-7442



St. Johns County
Options List for 2014 Rescue Unit -10-29-13
Based on Florida Sheriff's Association Bid
Bid Number 11-10-1202 Specification # 02 Type 1 Medium Duty (4X2)

ITEM	UPGRADES	DESCRIPTION #NAME?	TOTAL
1		Chassis Upgrades	\$ 4,786.00
2		Sway Bars, Front and Rear	\$ 1,456.00
3		Map Box Console in Cab - Aluminum with 3 drop in dividers - provision to mount TIC with charger power.	\$ 789.00
4		Map Light, Cab Console	\$ 105.00
5		Battery - Upgrade to 3 battery system	\$ 350.00
6		Additional 12 V outlet	\$ 360.00
7		12V Buss Bars	\$ 350.00
8		Shoreline, Straight Prong ILO Twistlock	\$ 125.00
9		Shoreline, Mounting Bracket	\$ 250.00
10		Additional Shoreline	\$ 305.00
11		Interior Dome Lights (6) LED	\$ 730.00
12		Grill Lights, LED, Qty 4 & Front Module (8) Lights & Rear Module (2)	\$ 1,345.00
13		Clock Above Rear Doors	\$ 175.00
14		Rear Windows, Sliding Glass ILO Fixed	\$ 75.00
15		Exterior Compt Lights, Krystal Rope Lights	\$ 550.00
16		D1, Adjustable Shelf	\$ 325.00
17		D1, Adjustable Shelf, Additional	\$ 175.00
18		D1, P1, compartments to ccept transverse chute	\$ 650.00
19		D2, Divider	\$ 325.00
20		D4, O2 Slide-Out Board, Zico Bracket	\$ 1,593.00
21		D4, Fixed Divider	\$ 325.00
22		Vanner Inverter with battery charger	\$ 1,508.00
23		Camera System - rear view & Interior view	\$ 742.00
24		Interior Angled LED Lights - L & R side	\$ 856.00
25		P5, Adjustable Pull Out Tray, Mid-Level	\$ 325.00
26		P1, Additional Fixed Shelves, (2), transverse compartment	\$ 1,855.00
27		P1, (2) Adjustable Shelves	\$ 325.00
28		SCBA Mounting Plate	\$ 600.00
29		Power Door Locks	\$ 1,704.00
30		Cabinetry above the transverse compartment with drop down door	\$ 1,333.00
31		Tow Eyes on Rear	\$ 550.00
32		Dual cabinet drawer bellow refrigerator with KV70 locks	\$ 793.00
33		Nor-Cold Refrigeration Unit	\$ 1,761.00
34		B1, Bulkhead Cabinet	\$ 370.00
35		B 1/2, 110V/12V Hoseline AC Unit	\$ 7,450.00
36		UV Light, Hoseline, APS-253	\$ 392.00
37		AC Condenser with branch guard	\$ 1,300.00
38		B2, ALS Cabinet, Custom	\$ 780.00
39		EVS Child Seat	\$ 500.00
40		CPR Seat with storage underneath, gas hold open	\$ 550.00
41		Squad Bench, Custom	\$ 550.00
42		MediVault, Power supply, cabinet modifications	\$ 1,513.00
43		Oxygen Outlet	\$ 350.00
44		Acrylic (Meganit) counter tops	\$ 1,370.00
45		LifePak Swivel Bracket	\$ 550.00
46		Custom Paint Red/White	\$ 1,248.00
47		Lettering & Striping	\$ 2,553.00
48		3M Thermal Imaging Camera	\$ 9,495.00

49	Stryker Power Pro Stretcher with accessories	\$ 14,608.00
50	Customer Final Inspection Trip	\$ 2,500.00
	OPTIONS TOTAL	\$ 73,675.00
	PFA 3% price increase per Bid Extension Letter	\$ 4,800.00
	FLORIDA SHERIFFS ASSOCIATION BID BASE PRICE	\$ 160,026.00
	VEHICLE TOTAL	\$ 238,401.00



**FLORIDA FIRE CHIEFS' ASSOCIATION,
FLORIDA SHERIFFS ASSOCIATION
& FLORIDA ASSOCIATION OF COUNTIES**

Base Specifications

**SPECIFICATION #02 - TYPE I AMBULANCE
2 WHEEL DRIVE MEDIUM DUTY
(DUAL REAR WHEEL, CAB & CHASSIS)**

ALL ITEMS FACTORY INSTALLED UNLESS OTHERWISE INDICATED

FORD, FREIGHTLINER, INTERNATIONAL OR APPROVED EQUIVALENT

1. ENGINE

- a. Diesel engine, 6 cylinder minimum.
- b. Heavy-duty alternator, minimum 250 amp.
- c. Maintenance free heavy-duty batteries, 750 CCA minimum.
- d. Manufacturer's heavy-duty engine cooling.

2. TRANSMISSION

- a. Electronic Allison Transmission
- b. Manufacturer's transmission oil cooler: water to oil heavy-duty cooling.

3. AXLES

- a. Front Axle: 7,000 lbs.
- b. Rear Axle: 12,000 lbs.
- c. Front Suspension: 7,000 lbs.
- d. Rear Suspension: 12,000 lbs. air suspension with dual instant response leveling valves.

4. PERFORMANCE ITEMS

- a. Power Steering
- b. Anti-lock brakes
- c. Power brakes, disc type front, disc or drum rear.
- d. Fuel capacity, 250 miles minimum without refueling
- e. Heavy-duty front and rear shocks.

5. COMFORT ITEMS

- a. Factory installed air conditioning
- b. Tinted glass (factory tint)
- c. Dual air suspension seats with armrest
- d. Rubber floor mat instead of carpeting
- e. AM/FM radio

6. SAFETY ITEMS

- a. Driver and passenger lap and shoulder belt with retractor.
- b. Dual electric horns
- c. Outside mirrors to provide vision for vehicles 96" wide
- d. Two speed wipers with intermittent
- e. Interior dome lights wired to right and left doors.
- f. Halogen headlights with daytime running feature.

7. TIRES AND WHEELS

- a. BSW, all season tread radial 19.5 inch tires

8. CHASSIS, FRAME, CAB

- a. Minimum GVWR 16,500 lbs.
- b. Cab to center of axle 100 inches minimum

9. MODULAR BODY CONSTRUCTION

- a. The ambulance body and patient compartment shall be sufficient in size to meet the requirements of this specification and those of paragraph 3.10.1 of the current KKK-A-1822F.



**FLORIDA FIRE CHIEFS' ASSOCIATION,
FLORIDA SHERIFFS ASSOCIATION
& FLORIDA ASSOCIATION OF COUNTIES**

**2012 INTERNATIONAL TERRASTAR SFA
Specification #02
(Type I Ambulance, 4x2 Medium Duty)**

The International Terrastar SFA, Type I Medium Duty Ambulance purchased through this contract comes with all the standard equipment as specified by the manufacturer for this model and FSA's base vehicle specification(s) requirements which are included and made a part of this contract's vehicle base price as awarded by manufacturer by specification.

BASE PRICE:	\$160,026.00	\$132,549.00
MANUFACTURER:	Braun Industries, Inc.	ETR, L.L.C. (AEV)
BASE PRICE:	\$147,066.00	\$183,094.00
MANUFACTURER:	Excellance, Inc.	Hall-Mark Fire Apparatus (Horton)
BASE PRICE:	\$145,997.00	\$139,355.00
MANUFACTURER:	Pierce Manufacturing, Inc. (Medtec)	Quality Emergency Vehicles (Osage)
BASE PRICE:	\$148,500.00	\$128,500.00
MANUFACTURER:	Road Rescue Emergency Vehicles	Wheeled Coach Industries, Inc.

Purchasers are advised that the above referenced vehicle specification comes equipped as a base unit only. The Florida Fire Chiefs' Association, Florida Sheriffs Association and Florida Association of Counties have identified and equipped the base unit with those specifications and equipment items required to meet KKK-A-1822F, or the most current revision for Type I Ambulance. Since equipment needs and preferences are going to vary from agency to agency - any additional options required or changes to the base unit desired by the purchaser shall be made through the manufacturer listed.

NOTE: An official listing of all add/delete options and their prices should be obtained from the appropriate vendor.

MEMO



FLORIDA SHERIFFS ASSOCIATION

P. O. Box 12519 • Tallahassee, FL 32317-2519
PHONE (850) 877-2165 • FAX (850) 878-8665
WEB SITE: www.flsheriffs.org

DATE: October 30, 2012

TO: **PROSPECTIVE PURCHASING AGENCIES**

FROM: Peggy Goff Lynn Meek
Vehicle Contract Manager Cooperative Bid Coordinator

RE: **Extension of Bid 11-10-1202**
Fire Rescue Vehicles & Other Fleet Equipment

The Florida Sheriffs Association will extend Bid 11-10-1202 through December 31, 2013. All terms and conditions will remain the same with the exception of the date.

The Florida Sheriffs Association has allowed an increase of three percent (3%) on the base price of the vehicles and all options offered through Bid 11-10-1202, as allowed in Part B, item thirteen (13). Due to the increase in chassis prices, this increase will be effective immediately.

Purchase orders should start at the base price for the vehicle being purchased and show the allowed increase. The end user should request documentation from the manufacturers in order to substantiate the increase.

We appreciate your loyalty and continued support.

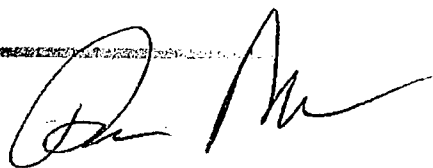


TERRASTAR SFA 4x2

Sales Proposal For:
BRAUN INDUSTRIES, INC.

St. Johns
2015

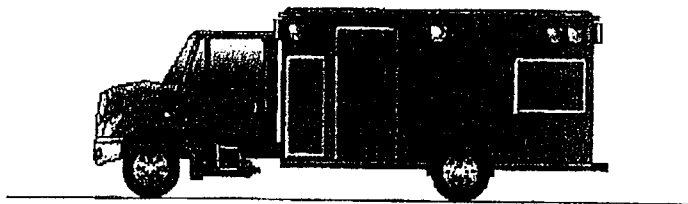
BRAUN Rescue
10-13-13
Wayne Stowell



10-21-2013

Prepared For:
BRAUN INDUSTRIES, INC.
Robert Sherer
1170 Production Dr.
Van Wert, OH 45891-9391
(419)594 - 3391
Reference ID: Braun Std Terra

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



Model Profile
2015 TERRASTAR SFA 4x2 (TA005)

APPLICATION:	Ambulance
MISSION:	Requested GVWR: 18000. Calc. GVWR: 17000 Calc. Start / Grade Ability: 38.90% / 5.37% @ 55 MPH Calc. Geared Speed: 75.6 MPH
DIMENSION:	Wheelbase: 183.00, CA: 108.60, Axle to Frame: 63.00
ENGINE, DIESEL:	{MaxxForce 7} EPA 10, 300 HP @ 2600 RPM, 660 lb-ft Torque @ 1600 RPM, 2800 RPM Governed Speed, 300 Peak HP (Max)
TRANSMISSION, AUTOMATIC:	{Allison 1000_EVS_P} 5th Generation Controls; Close Ratio, 5-Speed, With Overdrive; Includes Park Pawl, With PTO Provision, Less Retarder, With 19,500-lb GVW & 26,000-lb GCW Max.
CLUTCH:	Omit Item (Clutch & Control)
AXLE, FRONT NON-DRIVING:	{Dana Spicer D700-N} I-Beam Type, 7,000-lb Capacity
AXLE, REAR, SINGLE:	{Dana Spicer S110} Single Reduction, With Offset Housing, 10,000-lb Capacity, 160 Wheel Ends Gear Ratio: 4.88
CAB:	Conventional
TIRE, FRONT:	(3) 225/70R19.5 G647 RSS (GOODYEAR) 640 rev/mile, load range G, 14 ply
TIRE, REAR:	(4) 225/70R19.5 G622 RSD (GOODYEAR) 641 rev/mile, load range G, 14 ply
SUSPENSION, REAR, AIR, SINGLE:	{International} Ride Optimized Suspension (IROS); 12,000-lb Capacity, 6.0" Ride Height, With Shock Absorbers
PAINT:	Cab schematic 2AGTA Location 1: 2562, Red (Prem) Location 2: 9219, Winter White (Std) Chassis schematic N/A

<u>Code</u>	<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
TA00500	Base Chassis, Model TERRASTAR SFA 4x2 with 183.00 Wheelbase, 108.60 CA, and 63.00 Axle to Frame.	4676/2731	7407
1570	TOW HOOK, FRONT (2) Frame Mounted	11/-1	10
1CDN	FRAME RAILS High Strength Low Alloy Steel (80,000 PSI Yield); 7.375" x 3.079" x .312" (187.45mm x 78.2mm x 8.0mm) With Transition to 9.125" x 3.079" x .312" (231.8mm x 78.2mm x 8.0mm); Includes 1.2" (30mm) Drop Under Cab; 335.2" (8512.2mm) Maximum OAL	30/87	117
	<u>Notes</u> : Refer to WB/AF COMBINATIONS Chart in the Compatibility Charts section of the CT-400 Data Book and the Price List for compatible AF dimension.		
1MSC	BUMPER, FRONT Full Width, Aerodynamic, Steel, Chrome Plated, 0.118" Material Thickness	0/0	0
1SAL	CROSSMEMBER, REAR, AF (01)	0/0	0
1WEB	WHEELBASE RANGE 128" (325cm) Through and Including 183" (465cm)	0/0	0
2ADZ	AXLE, FRONT NON-DRIVING (Dana Spicer D700-N) I-Beam Type, 7,000-lb Capacity	0/0	0
3AGN	SUSPENSION, FRONT, SPRING Taper Leaf, Shackle Type; 7,000-lb Capacity; With Shock Absorbers	54/-11	43
	<u>Includes</u> : SPRING PINS Rubber Bushings, Maintenance-Free		
4087	BRAKE SYSTEM, HYDRAULIC (TRW 355) Split System, With Three Channel ABS	0/0	0
	<u>Includes</u> : BRAKE LININGS, FRONT HX-73, Non-Asbestos : BRAKE LININGS, REAR HX-73, Non-Asbestos		
4EBD	AIR DRYER (Meritor Wabco System Saver 1200) with Heater	11/5	16
	<u>Includes</u> : AIR DRYER LOCATION Inside Left Rail, Back of Cab		
4GAX	BRAKE, PARKING (TRW) Drum-in-Hat Type; for Hydraulic Brake chassis; Activated by Lever in Cab; Mounted in Rear Wheels	0/0	0
	<u>Includes</u> : PARKING BRAKE CONTROL Lever, Floor Mounted, Located Right of Driver		
4JNH	BRAKES, FRONT, HYDRAULIC DISC (TRW) 15.35" x 1.54" Rotors; Dual 2.36" (60mm) Diam. Pistons	0/0	0
4NNH	BRAKES, REAR, HYDRAULIC DISC (TRW) 15.35" x 1.54" Rotors; Dual 2.36" (60mm) Diam. Pistons	0/0	0
4SBL	AIR COMPRESSOR (Bendix Tu-Flo 550) 13.2 CFM Capacity; and Tank for Air Source on Hydraulic Chassis	56/-1	55
5710	STEERING COLUMN Tilting and Telescoping	3/0	3
5CAL	STEERING WHEEL 2-Spoke, 18" Diam., Black	0/0	0
5PSN	STEERING GEAR (Sheppard MD83) Power	0/0	0
7BDA	EXHAUST SYSTEM Single, Horizontal, Aftertreatment Device Frame Mounted Right Side Back of Cab, Includes Horizontal Tail Pipe	0/0	0
	<u>Includes</u> : NOTE: The Horizontal Tailpipe Includes a Temperature Control Device		
7WZX	SWITCH, FOR EXHAUST 3 Position, Momentary, Lighted Momentary, ON/CANCEL, Center Stable, INHIBIT REGEN, Mounted in IP Inhibits Diesel Particulate Filter Regeneration When Switch is Moved to ON While Engine is Running, Resets When Ignition is Turned OFF	2/0	2
8000	ELECTRICAL SYSTEM 12-Volt, Standard Equipment	0/0	0
	<u>Includes</u> : BATTERY BOX Steel : DATA LINK CONNECTOR For Vehicle Programming and Diagnostics In Cab : FUSES, ELECTRICAL SAE Blade-Type : HAZARD SWITCH Push On/Push Off, Located on Top of Steering Column Cover : HEADLIGHT DIMMER SWITCH Integral with Turn Signal Lever : HEADLIGHTS (2) Sealed Beam Halogen, 5" x 7" Rectangular, with Molded-In Argent Colored Bezels		

<u>Code</u>	<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
	: HORN, ELECTRIC Single		
	: JUMP START STUD Located on Positive Terminal of Outermost Battery		
	: PARKING LIGHT Integral with Front Turn Signal and Rear Tail Light		
	: RUNNING LIGHT (2) Daytime, Included With Headlights		
	: STARTER SWITCH Electric, Key Operated		
	: STOP, TURN, TAIL & B/U LIGHTS Dual, Rear, Combination with Reflector		
	: TURN SIGNAL SWITCH Self-Cancelling for Trucks, Manual Cancelling for Tractors, with Lane Change Feature		
	: TURN SIGNALS, FRONT Includes Reflectors and Solid State Flashers; Flush Mounted		
	: WINDSHIELD WIPER SWITCH 2-Speed with Wash and Intermittent Feature (5 Pre-Set Delays), Integral with Turn Signal Lever		
	: WINDSHIELD WIPERS Single Motor, Electric, Cowl Mounted		
	: WIRING, CHASSIS Color Coded and Continuously Numbered		
8518	CIGAR LIGHTER Includes Ash Cup	1/0	1
8540	HORN, ELECTRIC (2)	2/0	2
8GWY	ALTERNATOR {Leece-Neville 14931PAH} Brush Type, 12 Volt 320 Amp. Capacity, Pad Mount	13/0	13
8HAB	BODY BUILDER WIRING Back of Standard Cab at Left Frame or Under Extended or Crew Cab at Left Frame; Includes Sealed Connectors for Tail/Amber Turn/Marker/ Backup/Accessory Power/Ground and Sealed Connector for Stop/Turn	3/0	3
8MED	BATTERY SYSTEM {International} Maintenance-Free (2) 12-Volt 1100CCA Total	0/0	0
8RME	RADIO AM/FM/WB/Clock/3MM Auxiliary Input, with Multiple Speakers, With CD Player	1/0	1
8WBW	JUMP START STUD Remote Mounted	0/0	0
8WCL	HORN, AIR Black, Single Trumpet, Air Solenoid Operated	2/0	2
8WGL	WINDSHIELD WIPER SPD CONTROL Force Wipers to Slowest Intermittent Speed When Park Brake Set and Wipers Left on for a Predetermined Time	0/0	0
8WPZ	TEST EXTERIOR LIGHTS Pre-Trip Inspection will Cycle all Exterior Lamps Except Back-up Lights	0/0	0
8WRB	HEADLIGHTS ON W/WIPERS Headlights Will Automatically Turn on if Windshield Wipers are turned on	0/0	0
8WWJ	INDICATOR, LOW COOLANT LEVEL With Audible Alarm	0/0	0
8WYD	STARTING MOTOR {Delco Remy 29MT} 12 Volt; Less Thermal Over-Crank Protection, With Integrated Magnetic Switch	0/0	0
9HCG	GRILLE Chrome, with Chrome Headlight Bezels	5/0	5
9LAC	INTERNATIONAL LOGOS Ship Loose International Door Badges in Cab for Installation after Customer Graphics	0/0	0
9WAY	FRONT END Tilting, Fiberglass, With Three Piece Construction <u>Includes</u>	0/0	0
	: HOOD TILT ASSIST Includes Torsion Bar Spring System		
10761	PAINT TYPE Base Coat/Glear Coat, 1-2 Tone	0/0	0
10769	PAINT CLASS Premium Color	0/0	0
11001	CLUTCH Omit Item (Clutch & Control)	0/0	0
12890	BLOCK HEATER, ENGINE {Phillips} 120 Volt/1000 Watt <u>Includes</u>	2/0	2
	: BLOCK HEATER SOCKET Receptacle Type; Mounted below Drivers Door		
12NVE	ENGINE, DIESEL {MaxxForce 7} EPA 10, 300 HP @ 2600 RPM, 660 lb-ft Torque @ 1600 RPM, 2800 RPM Governed Speed, 300 Peak HP (Max) <u>Includes</u>	0/0	0
	: AIR COMPRESSOR AIR SUPPLY LINE Naturally-Aspirated (Air Brake Chassis Only)		
	: ANTI-FREEZE Red Shell Rotella Extended Life Coolant; -40 Degrees F/ -40 Degrees C; for MaxxForce Engines		
	: CRUISE CONTROL Electronic; Controls Integral to Steering Wheel		
	: ENGINE OIL DRAIN PLUG Magnetic		
	: ENGINE SHUTDOWN Electric, Key Operated		

<u>Code</u>	<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
	: FUEL FILTER Engine Mounted : FUEL HEATER Included with Fuel/Water Separator : FUEL/WATER SEPARATOR Engine Mounted : GLOW PLUG Automatic with Indicator Light : GOVERNOR Electronic : OIL FILTER, ENGINE Drop-In Cartridge Type		
12TTB	FAN DRIVE {Borg-Warner Series 790} Viscous Type, Screw On <u>Includes</u> : FAN Nylon	0/0	0
12UBU	RADIATOR Aluminum; 2-Row, Cross Flow, Side-by-Side System, 697 SqIn Louvered, With 225 SqIn CAC, With In-Tank Oil Cooler <u>Includes</u> : DEAERATION SYSTEM with Surge Tank : HOSE CLAMPS, RADIATOR HOSES Gates Shrink Band Type; Thermoplastic Coolant Hose Clamps : RADIATOR HOSES Premium, Rubber	0/0	0
12VBR	AIR CLEANER With Service Protection Element <u>Includes</u> : GAUGE, AIR CLEANER RESTRICTION Air Cleaner Mounted	0/0	0
12VXU	THROTTLE, HAND CONTROL Engine Speed Control for PTO; Electronic, Stationary Pre-Set, Two Speed Settings; Mounted on Steering Wheel	0/0	0
12VYP	ENGINE CONTROL, REMOTE MOUNTED - No Provision Furnished for Remote Mounted Engine Control	0/0	0
12VZD	FEDERAL EMISSIONS for 2010; MaxxFORCE 7 Engines	0/0	0
12WTA	FAN DRIVE SPECIAL EFFECTS Fan Cooling Ring with Fan Shroud Effects, Engine Mounted	10/0	10
12WZD	EMISSION COMPLIANCE Engine Shutdown System Exempt Vehicles, Complies With California Clean Air Regulations	0/0	0
12XAN	OBD COMPLIANCE for 2013 OBD (On Board Diagnostics)	0/0	0
13ARD	TRANSMISSION, AUTOMATIC {Allison 1000_EVS_P} 5th Generation Controls; Close Ratio, 5-Speed, With Overdrive; Includes Park Pawl, With PTO Provision, Less Retarder, With 19,500-lb GVW & 26,000-lb GCW Max. <u>Includes</u> : OIL FILTER, TRANSMISSION Mounted on Transmission : TRANSMISSION OIL PAN Magnet in Oil Pan	0/0	0
13WLN	TRANSMISSION OIL Synthetic; 20 thru 28 Pints	0/0	0
13WYL	SHIFT CONTROL PARAMETERS Allison Performance Programming in Primary and Allison Economy Programming in Secondary	0/0	0
14888	DIFFERENTIAL, LOCKING {Dana Spicer Truetrac} Torque Proportioning Limited Slip	0/0	0
14899	SUSPENSION AIR CONTROL VALVE Pressure Release Control In Cab	0/1	1
14ACR	AXLE, REAR, SINGLE {Dana Spicer S110} Single Reduction, With Offset Housing, 10,000-lb Capacity, 160 Wheel Ends . Gear Ratio: 4.88 <u>Includes</u> : REAR AXLE DRAIN PLUG (1) Magnetic, For Single Rear Axle	0/0	0
14TCH	SUSPENSION, REAR, AIR, SINGLE {International} Ride Optimized Suspension (IROS); 12,000-lb Capacity, 6.0" Ride Height, With Shock Absorbers <u>Notes</u> : The following features should be considered when calculating Rear GAWR: Rear Axles; Rear Suspension; Brake System; Brakes, Rear Air Cam; Brake Shoes, Rear; Special Rating, GAWR; Wheels; Tires.	0/47	47
14WLA	AXLE, REAR, LUBE {EmGard 75W-90} Synthetic Oil; 1 thru 29.99 Pints	0/0	0
15SSW	FUEL TANK Top Draw; Rectangular, Steel; 40 U.S. Gal., 151 L Capacity, 15" Depth, Includes Fuel Filler Assembly and Vent Hosing, Mounted Between Frame Sidemembers and Behind Rear Axle	0/0	0
16030	CAB Conventional <u>Includes</u>	0/0	0

<u>Code</u>	<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
	: ARM REST (2) Molded Plastic; One Each Door		
	: CLEARANCE/MARKER LIGHTS (5) Flush Mounted		
	: COAT HOOK, CAB Located on Rear Wall, Centered Above Rear Window		
	: CUP HOLDERS Two Cup Holders, Located in Lower Center of Instrument Panel		
	: DOME LIGHT, CAB Rectangular, Door Activated and Push On-Off at Light Lens, Timed Theater Dimming, Integral to Console, Center Mounted		
	: GLASS, ALL WINDOWS Tinted		
	: GRAB HANDLE, CAB INTERIOR (1) "A" Pillar Mounted, Passenger Side		
	: GRAB HANDLE, CAB INTERIOR (2) Front of "B" Pillar Mounted, One Each Side		
	: INTERIOR SHEET METAL Upper Door (Above Window Ledge) Painted Exterior Color		
	: STEP (2) One Per Door		
16975	HEATER HOSES Silicone	0/0	0
16990	AIR CONDITIONER, PROVISION FOR Accommodation Package, for Air Conditioning, Includes (1) SD7 Sanden Auxiliary Compressor in Secondary Compressor Position and Compressor Drive Effects for Vehicle With Primary Compressor Mounting	27/0	27
16HBA	GAUGE CLUSTER English With English Electronic Speedometer <u>Includes</u> : GAUGE CLUSTER (5) Engine Oil Pressure (Electronic), Water Temperature (Electronic), Fuel (Electronic), Tachometer (Electronic), Voltmeter : ODOMETER DISPLAY, Miles, Trip Miles, Engine Hours, Trip Hours, Fault Code Readout : WARNING SYSTEM Low Fuel, Low Oil Pressure, High Engine Coolant Temp, and Low Battery Voltage (Visual and Audible)	0/0	0
16HGH	GAUGE, OIL TEMP, ALLISON TRAN	1/0	1
16HHE	GAUGE, AIR CLEANER RESTRICTION {Filter-Minder} With Black Bezel Mounted in Instrument Panel	1/0	1
16HKT	IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster	0/0	0
16LJS	SEAT, DRIVER {National 2000} Air Suspension, High Back With Integral Headrest, Vinyl, Isolator, 1 Chamber Lumbar, 2 Position Front Cushion Adjustment, -3 to +14 Degree Seat Back Angle Adjust, Dual Shocks <u>Includes</u> : SEAT BELT 3-Point, Lap and Shoulder Belt Type	13/6	19
16PPN	SEAT, PASSENGER {National 2000} Air-Suspension, High Back With Integral Headrest, Vinyl, Isolator, 1 Chamber Lumbar, 2 Position Front Cushion Adjustment, Dual Shocks	18/6	24
16SDC	GRAB HANDLE (2) Chrome Towel Bar Type With Anti-Slip Rubber Inserts; for Cab Entry, Mounted Left and Right, Each Side at "B" Pillar	6/0	6
16SDU	MIRRORS (2) {Lang Mekra} Styled; Rectangular, 7.09" x 15.75" & Integral Convex Both Sides, 102" Inside Spacing, Breakaway Type, Heated Heads Thermostatically Controlled, Power Both Sides, Clearance Lights LED, Bright Finish Heads & Brackets	14/4	18
16WBY	ARM REST, RIGHT, DRIVER SEAT	3/0	3
16WBZ	ARM REST, LEFT, PASSENGER SEAT	3/0	3
16WCT	AIR CONDITIONER {Blend-Air} With Integral Heater & Defroster <u>Includes</u> : HEATER HOSES Premium : HOSE CLAMPS, HEATER HOSE Mubea Constant Tension Clamps : REFRIGERANT Hydrofluorocarbon HFC-134A	62/6	68
16WHC	HEATER CONNECTION for International V8 Engines, With Dual Heater Outlets to Accommodate Shutoff Valves or Aftermarket Secondary Heater Requirements	0/0	0
16WHJ	HOSE CLAMPS, HEATER HOSE {Breeze} Belleville Washer Type	1/0	1
16WJS	INSTRUMENT PANEL Center Section, Flat Panel	0/0	0
16WJU	WINDOW, POWER (2) And Power Door Locks, Left and Right Doors, Includes Express Down Feature	5/0	5

<u>Code</u>	<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
16WRZ	CAB INTERIOR TRIM Premium <u>Includes</u> : "A" PILLAR COVER Molded Plastic : CAB INTERIOR TRIM PANELS Cloth Covered Molded Plastic, Full Height; All Exposed Interior Sheet Metal is Covered Except for the Following: with a Two-Man Passenger Seat or with a Full Bench Seat the Back Panel is Completely Void of Covering : CAB SOUND INSULATION Includes Dash and Engine Cover Insulators : CONSOLE, OVERHEAD Molded Plastic; With Dual Storage Pockets with Retainer Nets, CB Radio Pocket, Speakers, and Reading Lights : COURTESY LIGHT (2) Mounted In Front Map Pocket Left and Right Side : DOOR TRIM PANELS with Cloth Insert on Bolster Driver and Passenger Doors : FLOOR COVERING Rubber, Black : GAUGE, TEMPERATURE, AMBIENT Includes Wiring and Sensor With Display Unit Mounted in Cluster : HEADLINER Soft Padded Cloth : INSTRUMENT PANEL TRIM Molded Plastic with Black Center Section : STORAGE POCKET, DOOR (2) Molded Plastic (Carpet Texture), Full-Length; Driver and Passenger Doors : SUN VISOR (3) Padded Vinyl: 2 Moveable (Front-to-Side) Primary Visors, Driver Side with Vanity Mirror and Toll Ticket Strap, plus 1 Auxiliary Visor (Front Only), Driver Side	0/0	0
16XRX	MODESTY PANEL Painted	0/0	0
26DRR	WHEEL, SPARE, DISC 19.5" Painted Steel, 10 Stud (225MM BC) Hub Piloted, Flange Nut, Metric Mount, 6.00DC Rim	0/54	54
27DAV	WHEELS, FRONT DISC; 19.5" Polished Aluminum; 10-Stub (225MM BC) Hub Piloted, Flanged Nut, Metric Mount, 6.00 DC Rims; With Steel Hubs	-40/0	-40
	<u>Notes</u> : Aluminum Wheels not Painted or Coated		
28DAV	WHEELS, REAR DISC; 19.5" Polished Aluminum Outer Wheel, With Steel Inner Wheel, 10-Stub (225MM BC) Hub Piloted, Flanged Nut, Metric Mount, 6.00 DC Rims; With Steel Hubs	0/-40	-40
	<u>Notes</u> : Aluminum Wheels not Painted or Coated : Polished Surface Outside Dual Only		
29007	TIRE, SPARE Equal to Model Standard	0/63	63
	<u>Notes</u> : NOTE: Only One Spare Tire per Truck Ordered. Order Must Reflect Number of Tires Required (Including Spare). 10-Digit Tire Code and Spare Rim/Wheel Code Must be Specified.		
35107	PAINT HOOD, CONVENTIONAL CAB Solid Color for 2, 3, or 4-Tone Special Schematics	0/0	0
35200	PAINT, CAB Two-Tone, With 1-2 Breaks on Cab.	0/0	0
60ACW	BDY INTG,I/O EXPANSION HARNESS (for Diamond Logic Builder) In-Cab wire harness (DLB) program only, Includes a harness with five blunt cut wires routed on lower left of instrument panel. Two ground active inputs and two (.5Amp) relay drivers outputs are provided	1/0	1
7779440101	(3) TIRE, FRONT 225/70R19.5 G647 RSS (GOODYEAR) 640 rev/mile, load range G, 14 ply	3/0	3
7779448102	(4) TIRE, REAR 225/70R19.5 G622 RSD (GOODYEAR) 641 rev/mile, load range G, 14 ply	0/4	4
	Total Component Weight:	5000/2961	7961
	Programming	0/0	0
	Modify Exhaust to Exit LH Side In Front of Rear Tires	0/0	0
	Furnish Triangle Kit and Fire Extinguisher	0/0	0

INTERNATIONAL*

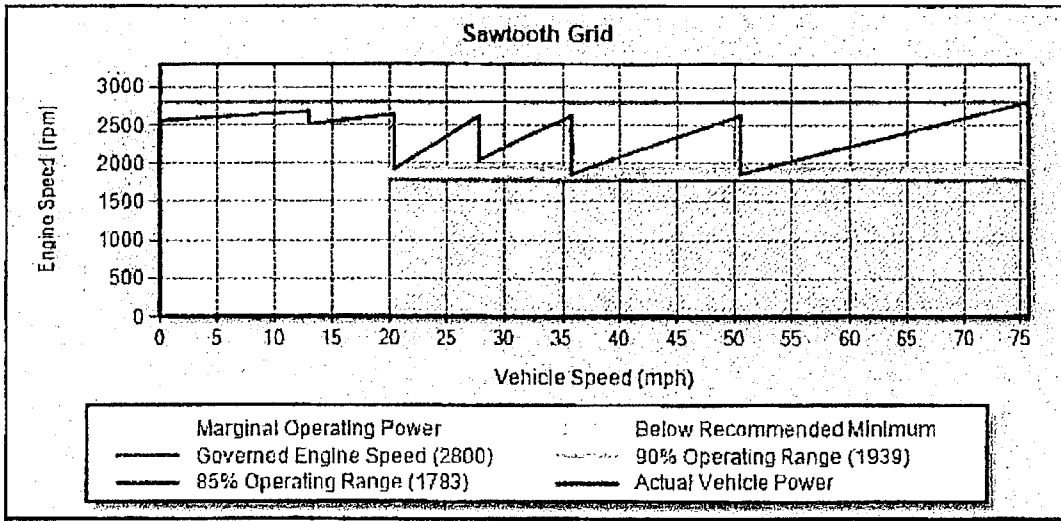
Vehicle Specifications
2015 TERRASTAR SFA 4x2 (TA006)

September 20, 2013

<u>Code</u>	<u>Description</u>	<u>F/R Wt</u> (lbs)	<u>Tot Wt</u> (lbs)
	IPD FRONT & REAR SWAY BAR without tire CHAINS	0/0	0
	Quote is good until 9/30/2014.	0/0	0
	Furnish A/C compressor tie in parts	0/0	0
	Furnish and install Dual leveling valves, ping tanks and rear bump stops	0/0	0
	Furnish and install (1) Grover 1510 round air horn on each chassis fender.	0/0	0
	Furnish and install aux air tank for air horns	0/0	0
	Furnish and install lug nut covers, beauty rings, tall hats & front hub covers	0/0	0
	Fuel tank modification	0/0	0
	1-1671608C1	0/0	0
	1-1671610C1		
	2-589391C1		
	Total Goods Purchased:	0/0	0

The weight calculations included in this proposal are an estimate of future vehicle weight. The actual weight as manufactured may be different from the estimated weight. Navistar, Inc. shall not be liable for any consequences resulting from any differences between the estimated weight of a vehicle and the actual weight.

ENGINE/TRANSMISSION MATCHING



Sawtooth Details

Gear	Trans Ratio	Upshift Power Avail		Govern Power Avail		Peak Power Comparison			Warn Msg
		Veh Spd (MPH)	Eng Spd (RPM)	Veh Spd (MPH)	Eng Spd (RPM)	Gear Step (%)	85% Range (%)	90% Range (%)	
1C	3.10	0.0	2562.5	13.0	2684.0	N/A	57	44	
2C	1.81	13.0	2521.5	20.4	2643.2	N/A	57	44	
2L	1.81	20.4	1927.7	27.8	2624.5	N/A	57	44	
3L	1.41	27.8	2044.5	35.8	2632.5	N/A	57	44	
4L	1.00	35.8	1867.0	50.4	2625.0	N/A	57	44	
5L	0.71	50.4	1863.8	75.6	2800.0	N/A	57	44	

@ - WHEELSLIP CAN OCCUR AT THE GRADE SHOWN. THE VEHICLE IS CAPABLE OF INCREASED GRADEABILITY IF MORE WEIGHT IS PLACED ON THE DRIVE AXLES.

STEADY STATE PERFORMANCE

Performance Results	Gear	Veh Spd (mph)	Eng Spd (rpm)	Fuel Econ (mpg)	Grade (%)	Notes
LEVEL ROAD MAXIMUM SPEED	5L	76.4	2827	5.61	0.00	
HI GEAR SPEED @ RATED RPM	5L	75.6	2800	5.59	1.29	
55.0 MPH STEADY-STATE	5L	55.0	2036	8.75	5.37	- Calculated Grade Ability/Fuel Economy

VEHICLE ORDER CODING ERRORS MAY RESULT IF THE "LEVEL ROAD MAX SPEED" VALUE EXCEEDS THE "HI GEAR SPEED @ RATED RPM" AND IS USED AS THE ENGINE PROGRAMMABLE VEHICLE SPEED LIMIT.

IF THE RESULTS CONTAIN " — " , VEHICLE CANNOT ATTAIN THAT SPEED.

IF THE RESULTS CONTAIN "*****", THE ENGINE USED DOES NOT HAVE A FUEL MAP. FUEL ECONOMY CANNOT BE PREDICTED.

Recommendations / General Information

IDLE FUEL RATE : 0.57 GALS/HR @ 700 RPM
TORQUE CONVERTER: TC-211 STALL RATIO: 1.90

Fuel Economy Route: Normal Route - City, Suburban, and Highway

Key Fuel Economy Information	City	Suburban	Highway	Notes
MILES PER GALLON	9.91	10.72	8.31	
AVERAGE MPH	19.24	40.16	54.64	
MISSION MINUTES	29.4	51.5	173.2	

IF THE RESULTS CONTAIN "*****", THE ENGINE USED DOES NOT HAVE A FUEL MAP. FUEL ECONOMY CANNOT BE PREDICTED.

GRADEABILITY PERFORMANCE

Enroute - Full Throttle Upshift Performance

Gear	Trans Ratio	Veh Spd (mph)	Eng Spd (rpm)	Whl Pwr (hp)	Grade (%)	Warn Notes Msg
1C	3.10	0.0	2562.5	0.0	38.90	@ STALL
		7.7	2522.6	135.7	38.90	@ 70% EFF
		10.0	2596.4	177.8	38.90	@ 80% EFF
		13.0	2684.0	222.6	37.30	
2C	1.81	13.0	2521.5	183.2	29.90	
2L	1.81	20.4	2643.2	224.1	22.40	
		27.8	2624.5	265.5	19.00	
3L	1.41	27.8	2044.5	226.3	15.90	
		35.8	2632.5	263.5	13.90	
4L	1.00	35.8	1867.0	208.6	10.60	
		50.4	2625.0	263.0	8.40	
5L	0.71	50.4	1863.8	202.0	5.80	
		75.6	2800.0	224.2	1.30	RATED RPM
		75.8	2805.9	215.3	1.00	
		76.1	2816.4	199.0	0.50	
		76.4	2827.2	182.2	0.00	LEVEL ROAD

STARTING / TOP GEAR PERFORMANCE

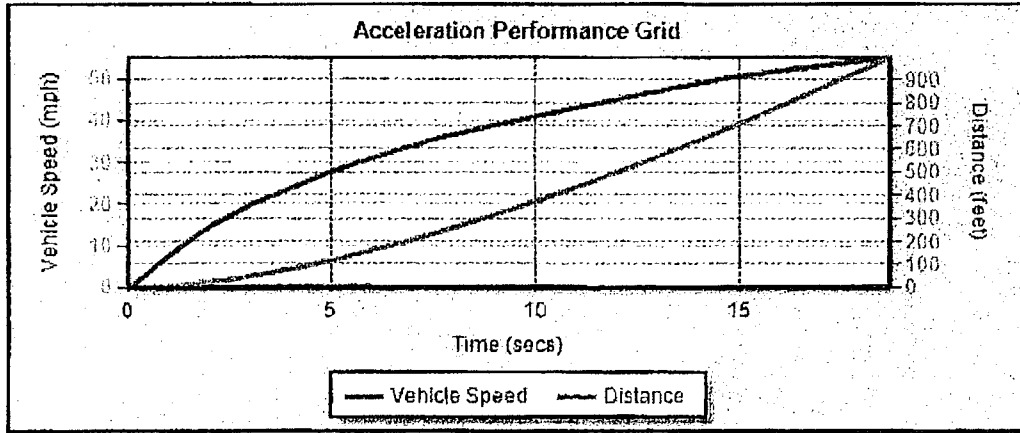
Gear	Trans Ratio	Veh Spd (mph)	Eng Spd (rpm)	Whl Pwr (hp)	Grade (%)	Warn Notes Msg
1C	3.10	0.0		0.0	38.90	@ STALL
		10.0		177.8	38.90	@ 80% EFF - Calculated Start Ability

@ - WHEELSLIP CAN OCCUR AT THE GRADE SHOWN. THE VEHICLE IS CAPABLE OF INCREASED GRADEABILITY IF MORE WEIGHT IS PLACED ON THE DRIVE AXLES.

THE TRANSMISSION WAS SIMULATED IN PERFORMANCE OPERATING MODE.

ACCELERATION PERFORMANCE RESULTS

Acceleration Performance Grid



Acceleration Performance: TIME TO ACCELERATE ON A 0.00% GRADE TO 55.0 (MPH) IS 18.69 (SECS)

Acceleration Performance Details

Gear	Time (secs)	Distance (feet)	Speed (mph)	Notes	
1	0.15	0.1	1.0		
	0.30	0.4	2.0		
	0.44	1.0	3.0		
	0.57	1.6	4.0		
	0.70	2.5	5.0		
	0.83	3.5	6.0		
	0.96	4.8	7.0		
	1.09	6.3	8.0		
	1.23	8.0	9.0		
	1.37	9.9	10.0		
	1.51	12.0	11.0		
	1.65	14.3	12.0		
	2	1.79	17.0	13.0	
		1.97	20.5	14.0	
		2.14	24.2	15.0	
2.32		28.3	16.0		
2.51		32.7	17.0		
2.70		37.6	18.0		
2.89		43.0	19.0		
3.10		48.9	20.0		
3	3.19	51.7	20.4		
	3.43	59.0	21.4		
	3.68	66.8	22.4		
	3.92	75.0	23.4		
	4.17	83.7	24.4		
	4.42	92.9	25.4		
	4.68	102.7	26.4		
	4.93	112.9	27.4		
4	5.04	117.2	27.8		
	5.35	130.0	28.8		
	5.66	143.5	29.8		
	5.98	157.6	30.8		

Gear	Time (secs)	Distance (feet)	Speed (mph)	Notes
	6.30	172.4	31.8	
	6.63	187.9	32.8	
	6.96	204.1	33.8	
	7.30	221.0	34.8	
5	7.64	238.8	35.8	
	8.09	262.8	36.8	
	8.55	287.7	37.8	
	9.01	313.5	38.8	
	9.47	340.3	39.8	
	9.94	368.2	40.8	
	10.42	397.1	41.8	
	10.90	427.1	42.8	
	11.39	458.2	43.8	
	11.89	490.6	44.8	
	12.40	524.3	45.8	
	12.91	559.2	46.8	
	13.43	595.4	47.8	
	13.97	633.1	48.8	
	14.51	672.2	49.8	
6	14.81	694.6	50.4	
	15.62	754.8	51.4	
	16.44	817.2	52.4	
	17.27	881.9	53.4	
	18.12	949.1	54.4	
	18.69	994.2	55.0	

REQUIRED TCAPE INFORMATION

TCAPE Factors For Vehicle

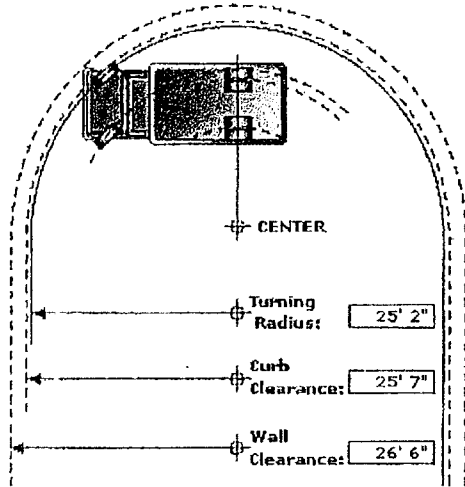
Selected Rear Axle Gear Ratio(s):	4.88
Vehicle Vocation:	GENERAL ON HIGHWAY
Road Surface Type:	TYPICAL
Enroute PTO:	NO
Transmission Mode:	Performance
Fuel Economy Route:	Normal Route - City, Suburban, and Highway
ID Wheel Slip Conditions:	Yes
Engine Fan Type:	VISCOUS
Parked PTO:	NO
Road Governor/Cruise Ctrl:	No
Acceleration Grade (%):	0.0
Alternator (A):	40
Frontal Area (FT ²):	96
Air Compressor (HP):	0.00
Vehicle Height (IN):	89
Steering Gear (HP):	2.60
Air Conditioner (HP):	3.20
Weight on Drive Axle (LBF):	10000
Acceleration Vehicle Spd (MPH):	55.0
Speed Limit on Route (MPH):	61.0
Vehicle Width (IN):	96
Relative Drag Coefficient:	80
TIRE, FRONT	2 - RADIAL LOWPROFILE
TIRE, REAR	4 - RADIAL LOWPROFILE

Components

0002ADZ	AXLE, FRONT NON-DRIVING {Dana Spicer D700-N} I-Beam Type, 7,000-lb Capacity
0004SBL	AIR COMPRESSOR {Bendix Tu-Flo 550} 13.2 CFM Capacity; and Tank for Air Source on Hydraulic Chassis
0005PSN	STEERING GEAR {Sheppard MD83} Power
0008GWY	ALTERNATOR {Leece-Neville 14931PAH} Brush Type, 12 Volt 320 Amp. Capacity, Pad Mount
0012NVE	ENGINE, DIESEL (MaxxForce 7) EPA 10, 300 HP @ 2600 RPM, 660 lb-ft Torque @ 1600 RPM, 2800 RPM Governed Speed, 300 Peak HP (Max)
0012TTB	FAN DRIVE {Borg-Warner Series 790} Viscous Type, Screw On
0013ARD	TRANSMISSION, AUTOMATIC {Allison 1000_EVS_P} 5th Generation Controls; Close Ratio, 5-Speed, With Overdrive; Includes Park Pawl, With PTO Provision, Less Retarder, With 19,500-lb GVW & 26,000-lb GCW Max.
0014ACR	AXLE, REAR, SINGLE {Dana Spicer S110} Single Reduction, With Offset Housing, 10,000-lb Capacity, 160 Wheel Ends
0016030	CAB Conventional
0016WCT	AIR CONDITIONER {Blend-Air} With Integral Heater & Defroster
07779440101	TIRE, FRONT 225/70R19.5 G647 RSS (GOODYEAR) 640 rev/mile, load range G, 14 ply 225/70R19.5 G647 RSS (GOODYEAR) 640 rev/mile, load range G, 14 ply
07779448102	TIRE, REAR 225/70R19.5 G622 RSD (GOODYEAR) 641 rev/mile, load range G, 14 ply 225/70R19.5 G622 RSD (GOODYEAR) 641 rev/mile, load range G, 14 ply

TCAPE HAS BEEN DESIGNED TO GIVE ECONOMY AND PERFORMANCE PREDICTIONS WHICH HAVE BEEN SHOWN TO BE TYPICAL FOR MOST OPERATIONS. HOWEVER, DUE TO OPERATING CONDITIONS, DRIVER INFLUENCES, AND OTHER FACTORS, YOUR RESULTS MAY VARY FROM THOSE PREDICTED. ALSO, BECAUSE OF FUEL MAPPING PROCEDURES USED BY VARIOUS ENGINE MANUFACTURERS, COMPARISONS OF FUEL ECONOMY RESULTS FOR DIFFERENT BRANDS OF ENGINES MAY VARY FROM THOSE SHOWN.

NAVISTAR, INC. SHALL NOT BE LIABLE FOR ANY LOSS OF PROFITS, LOSS OF USE, INTERRUPTION OF BUSINESS OR INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND THAT ARE INCURRED BY DEALER OR BY DEALER'S CUSTOMERS AS A RESULT OF RELIANCE ON TCAPE, WHETHER THE CLAIM IS IN CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY OR OTHERWISE.



Series: TR
 Model: TA005
 Description: TERRASTAR SFA 4x2
 Model Year: 2015

Calculation Factors

Wheelbase: 183
 Front Axle: 0002ADZ
 Description: AXLE, FRONT NON-DRIVING, (Dana Spicer D700-N) I-Beam Type, 7,000-lb Capacity
 Front Wheel: 0027DAV
 Description: WHEELS, FRONT, DISC; 19.5" Polished Aluminum; 10-Stud (225MM BC) Hub Piloted, Flanged Nut, Metric Mount, 6.00 DC Rims; With Steel Hubs
 Front Tire: 07779440101
 Description: TIRES, 225/70R19.5 G647 RSS (GOODYEAR) 640 rev/mile, load range G, 14 ply
 Steering Gear: 0005PSN
 Description: STEERING GEAR, {Sheppard MD83} Power

Turning Radius Statistics

General Information

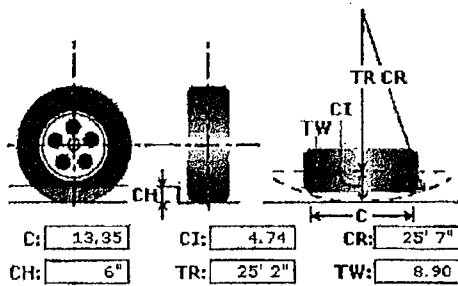
Inside Turn Angle: 50 Degrees
 Radial Overhang: 15.7

Axle Information

KingPin Inclination: 9 Degrees
 KingPin Center: 62.71

Turning Radius - Curb View

C - Curb Contact Length: 13.35
 CI - Curb Clearance Increment: 4.74
 CR - Curb Clearance Radius: 25' 7"
 CH - Curb Height: 6"
 TR - Turning Radius: 25' 2"
 TW - Tire Width: 8.90



* All Measurements are in inches, unless otherwise specified.

This information is based on engineering information available at this time. Actual figures may vary. Navistar, Inc. cannot accept liability for consequences due to this variance.

Change Order Additions to Specifications

FAXcd 10-21-13

St. John's County Fire / Rescue

2015 TerraStar with Braun Modular Body

Note: Cabinet Change 50-01-0100: To be added at sales review per Braun

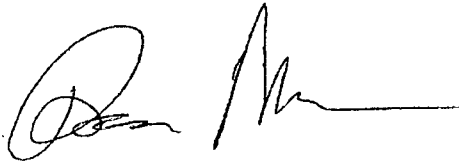
1. Delete LP shelf to rear of CPR seat and add cabinet with sliding doors.
2. Slide out drawers #3 and #4 at rear of squad bench should be widened and deepen to accommodate available space
3. All mounting hardware screws need to be such as they do not loosen during operations
4. Change cabinet sliders to release easier in lockout position
5. Add 1" ID space on back of console for additional storage

Sales Representative

Wayne Stowell

Wayne Stowell

10-16-13



10-21-2013

WAYNE, please note the wrong SCBA brackets.

QUOTATION

Ten 8 Fire Equipment

St. John's Fire/Rescue
 Jeff Pervatt
 3657 Gaines Road
 St. Augustine, FL 32084
 904-209-1702
 jprevatt@srcfl.us

Ten-8 Fire Equipment

Exp. Date: 04/15/2012
 Quote No: -0009
 Job/Order No: 6060
 10/16/2013

PART NO	DESCRIPTION	QTY
	== Chief XL 2012 Terrastar Base Type I 166" - 12.300 01/26/12 ==	1
00-01-0002	GENERAL VEHICLE INFORMATION Model Year: 2012 Module Model: Chief XL I Electrical System: V-MUX General Chassis Information: Chassis Year: 2013 Chassis Model: International Terrastar Wheelbase: 183 Chassis Custom Quoted? Yes, per attached Requested Delivery Date? None Stated	1
00-01-0026	FSA CONTRACT This order does specify an FSA contract	1
00-01-0061	PURCHASE AGREEMENT	1
	CHASSIS PACKAGES	
00-02-0161	- TYPE I - AMBULANCE - TERRASTAR - 72" INTERIOR HEADROOM 2012	1
10-02-0016	- CHASSIS - INTERNATIONAL TERRASTAR SFA 183" WB - 4X2 DRW 2013 - Custom chassis specifications, per attached	1
20-00-0010	- OPTIONAL CHASSIS ITEMS - INTERNATIONAL / FREIGHTLINER / KENWORTH	1
30-10-0018	- AIR HORNS - GROVER DUAL TRUMPETS ON FENDERS - OEM CHASSIS OEM Chassis Vendor supplied/installed Air Horn - Grover dual trumpets, one (1) 25" and one (1) 25", mounted on the chassis fenders. Plumb to chassis air tank. The air horns shall be activated by a switch, per dwg. # 1. The Grover Model # is 1510.	1
30-25-0201	- LIGHTS, RUNNING BOARD-WHELEN MINI - LED (1) EACH SIDE Light, Running Board - (Whelen) mini LED, one (1) white cluster on each side, IATS. Lights to operate with the cab door switches.	1
20-00-0101	- FUEL TANK - FULL UPON FACTORY RELEASE	1
20-10-0108	- AIR RIDE SYSTEM, AUTOMATIC LOWERING FEATURE - OEM IROS	1
20-10-0121	- BUMP STOPS	1
20-10-0217	- BATTERY - THREE (3) GROUP 31 - SLIDE OUT TRAY - BATTERY COMPARTMENT The battery system shall be three (3) Group 31 batteries installed in standard compartment on a slide-out tray IPOS/IATS, per dwg. # 4.	1
20-10-0404	- SECONDARY COMPRESSOR	1

PART NO	DESCRIPTION	QTY
20-10-0603	-- ENGINE BLOCK HEATER - OEM PLUG	1
20-20-0121	-- FLOOR CONSOLE, ANGLED FRONT - REMOVABLE PLATES - ALUMINUM A center floor console manufactured out of aluminum and covered in a black onyx zolatone. The console shall include a raised area angled towards the driver. The lower portion of the console shall contain two (2) drink holders, with the siren installed between them, then to the rear center a recessed storage area for maps and reports.	1
20-20-0251	-- HEAT SHIELDS	1
20-30-0211	-- MIRRORS, EXTERIOR 7"X15" POWER/HEATED	1
20-30-0801	-- EXTERIOR CAB STEPS - NFPA DIAMOND PLATE	1
20-40-0208	-- OEM WHEELS - WITH VALVE STEM EXTENSIONS - OEM POLISHED ALUMINUM Delete the Stainless Steel Wheel liners, Keep Valve Extensions and OEM wheels. Polished Aluminum wheels (4) ordered w/ OEM chassis. Bright hat, hub, and lug nut covers provided by OEM chassis Dealer (Selking).	1
30-10-0030	-- BACKUP ALARM	1
30-10-0800	-- SIREN SPEAKERS, CAST PRODUCTS - IN FRONT BUMPER	1
30-25-3114	-- LIGHTS, FRONT GRILLE - (4) WHELEN 700 LED - RED W/CLR LENS Install two (2) additional Whelen 700 red LED lights w/clear lens, making a total of four (4) installed. All with clear lens IPOS Lights to flash in an X pattern.	1
30-27-1116	-- LIGHTS, INTERSECTION FRONT - WHELEN 700 LED - RED W/CLR LENS Two (2) Whelen 700 series red super LED warning lights, with clear lens, chrome bezels and water-proof connectors, shall be mounted on the front chassis fenders, one (1) on each side. IPOS	1
39-10-0003	-- CONNECTIONS, MODULE	1
30-00-0002	OPTIONAL ELECTRICAL ITEMS	1
30-10-0071	-- CAMERA REAR VIEW SINGLE SYSTEM - VISTA III SCREEN Install camera system rear view, tied to M-Tech display screen. See Dwg #2	1
30-10-0262	-- INVERTER, VANNER - 1050 WATT, #20-1050CUL-DC CHARGER w/ COVER Vanner 20-1050CUL 1050-DC watt inverter with battery conditioner/charger, w/remote switch - non-hardwired shall be installed in OSS #2 with diamond plate protective cover IATS, per dwg. # 3.	1
30-10-0290	-- LIGHT, ATTENDANT CONTROL PANEL AREA Install light under ACP. See Dwg #5	1
30-10-0431	-- LIGHT, STEPWELL - CURBSIDE DOORWAY - 2" LED SURFACE MNT Two (2) Lights, stepwell - side doorway, Whelen 2" LED (#18105 with surface mount flange #27190). See Dwg #7	2
30-06-0002	-- ELECTRICAL SYSTEM - WELDON V-MUX, MICRO PROCESSOR BASED	1
30-06-0026	-- WARNING DISPLAY - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0050	-- DAYTIME RUNNING LAMPS - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0076	-- MASTER CONTROL CONSOLE (MCC) - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0101	-- ATTENDANT CONTROL PANEL (ACP) - MULTIPLEX ELECTRICAL	1
30-06-0126	-- ELECTRICAL COMPARTMENT (PDQ) - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0150	-- SPARE CIRCUIT - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0175	-- WIRING HARNESS CONNECTORS - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0200	-- RADIO TIE-IN POINTS - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0225	-- EMERGENCY MASTER SWITCH - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0250	-- CONTROL PANEL SWITCHES - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0275	-- MODULE POWER SWITCH - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0285	-- MODULE DISCONNECT - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0300	-- VOLTMETER - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0325	-- FLASHER - MULTIPLEX ELECTRICAL SYSTEM	1

PART NO	DESCRIPTION	QTY
30-06-0350	-- FLASHING HEADLIGHTS - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0375	-- PARK OVERRIDE - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0400	-- LOAD MANAGER-SEQUENTIAL SWITCHING SYSTEM - MULTIPLEX ELECTRIC	1
30-06-0425	-- WARNING LIGHTS SWITCH - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0450	-- FRONT CLEAR DISABLE SWITCH - MULTIPLEX ELECTRICAL SYSTEM	1
30-06-0475	-- CURBSIDE SCENE LIGHTS "ON" WITH CURBSIDE DOOR - MULTIPLEX EL	1
30-06-0500	-- REAR SCENE LIGHTS "ON" WITH REAR DOORS OPEN - MULTIPLEX ELEC	1
30-06-0525	-- DISABLE SWITCH FOR REAR SCENE LIGHTS - MULTIPLEX ELECTRICAL	1
30-06-0550	-- DISABLE SWITCH FOR SIDE SCENE LIGHTS - MULTIPLEX ELECTRICAL	1
30-06-0575	-- REVERSE (TRANSMISSION) FUNCTIONS - MULTIPLEX ELECTRICAL	1
30-10-0476	-- LIGHTS, DOME LED (6) Whelen Six (6) Whelen #LED (80C0EHCR) dome lights, shall be installed IPOS. See dwg #9	1
30-10-0901	-- SYSTEM ACTIVE AND CHECK OUT LIGHTS - 5 MINUTES	1
50-60-0256	-- EXHAUST VENTILATOR, 3-SPEED - MULTIPLEX ELECTRIC SYSTEM	1
50-60-0640	-- OXYGEN SYSTEM, ELECTRIC - MULTIPLEX ELECTRIC SYSTEM Install Electric Oxygen system IPOS manual (this includes bypass)	1
90-10-0002	-- WARRANTIES	1
30-10-0110	ELECTRICAL CIRCUITS	1
30-10-0190	GROUND FAULT CIRCUIT INTERRUPTER (GFCI)	1
30-10-0310	LIGHT, ELECTRICAL COMPARTMENT (PDQ) A 12 VDC light shall be located in the PDQ. The light shall be wired "battery-hot" to activate when the PDQ door is in the open position. The light shall be off when the door is in the closed position.	1
30-10-0410	LIGHT OSS COMPARTMENT - INCANDESCENT Install one additional compartment light in OSS#3 forward of the divider.	1
30-10-0490	LIGHTS, RECESSED LED PANEL (2) CURBSIDE - ANGLED Install Two (2) 12 VDC powered Grote #61261 LED WhiteLight recessed lights curbside IPOS fluorescent lights (Braun #27172). See Dwg #6	1
30-10-0486	LIGHTS, RECESSED LED PANEL (5) STREETSIDE - ANGLED Install Five (5) 12 VDC powered Grote#61261 LED WhiteLight recessed lights streetside IPOS fluorescent lights (Braun #27172). See Dwg #5	1
30-10-0527	OUTLETS, 125VAC - THREE (3) INTERIOR DUPLEX	1
30-10-0560	OUTLETS, 12VDC - THREE (3) INTERIOR POWERPOINT One (1) in forward action area (std) relocated from ACP to wall IPOS, per # 5 One (1) in lower front wall cabinet (std) One (1) additional installed on second action area wall IATS, per dwg. # 5 All 12v outlets wired battery hot.	1
30-10-0560	OUTLET, 12VDC - ONE (1) INTERIOR POWERPOINT Install one (1) 12V outlet on the passenger side of the cab console.	1
30-10-0657	RADIO ANTENNA BASES - TWO (2) Two (2) antenna bases with attached coax cables shall be installed on the module roof. The coax cables shall terminate in the PDQ. Access to the antenna bases shall be through adjacent module interior dome lights.	1
30-10-0721	RECEPTACLE SHORELINE INLET-20 AMP, NON-AUTO EJECT Install 20 amp manual (non-auto eject) shoreline receptacle with a yellow cover.	1
30-10-0753	SIREN, WHELEN 295-HFSA7-REMOTE WITH MICROPHONE	1
30-25-0001	OPTIONAL MISC EXTERIOR LIGHTING ITEMS	1

PART NO	DESCRIPTION	QTY
30-27-4151	-- LIGHTS, ABOVE RUB RAIL- TECNIQ LED - 4 EACH SIDE Light Package - TecNiq-LED lights shall be installed above the rub rail. Four (4) LED's each side, two (2) white LED's and two (2) red LED's equally spaced along the module side, for a total of eight (8) lights. (Red-White-Red White on each side)The LED mini clusters shall alternate flash with box warning lights.	1
30-25-0102	LIGHTS, ICC / LED CLEARANCE - WITH CHROME BEZELS ON MOD SIDE	1
30-25-0103	-- LIGHTS, ICC / LED CLEARANCE - WITH CHROME BEZELS ON FRONT The vehicle shall have five (5) amber surface mounted LED clearance / ICC lights with chrome bezels on the front of the module near the roof line.	1
30-25-4105	-- LIGHTS, FRONT MODULE WARNING -WHELEN (8) 600 LED - CLEAR LENS Eight (8) Whelen 600 series super LED warning lights with clear lenses and chrome bezels shall be installed, three (3) red and one (1) white each side of the condenser on module front IPOS, per # 1 dwg. lay-out.	1
30-26-3002	LIGHTS, REAR TAIL - WHELEN 600 LED FULL POPULATED STOP, LED TURN, HALOGEN BK-UP One (1) pair each of Whelen 600 series led fully populated stop/tail lights, LED amber arrow turn lights, and halogen back-up lights with chrome bezels shall be installed on the rear of the module. Ref. # 5711.	1
30-26-5011	LIGHTS, REAR WINDOW-LEVEL-WHELEN (2)900 LED - RED W/CLR LENS Two (2) Whelen 900 series red super LED lights w/clear lenses and chrome bezels shall be installed on the rear of the module at window level, one (1) on each side. IPOS	1
30-25-0104	-- LIGHTS, ICC / LED CLEARANCE - WITH CHROME BEZELS ON REAR The vehicle shall have five (5) red surface mounted LED clearance / ICC lights with chrome bezels on the rear of the module near the roof line.	1
30-26-6011	-- LIGHTS, REAR MOD WARN-WHELEN (5)900/LED&HALO SCENE W/CLR LEN Two (2) Whelen 900 series red super LED lights, two (2) Whelen 900 series halogen scene/load lights, and one (1) Whelen 900 series amber super LED light with chrome bezels shall be installed on the rear of the module. Lights to have all clear lens. IPOS	1
30-26-7002	LIGHT, LICENSE PLATE LED	1
30-27-2007	LIGHTS, SIDE MODULE SCENE - WHELEN 900 HALOGEN - CLEAR (4) Four (4) Whelen 900 series (gradient optics) halogen scene lights with chrome bezels shall be installed, two (2) each module side, inboard of the warning lights.	1
30-27-3006	LIGHTS, SIDE MODULE WARNING - WHELEN 900 LED-RED W/CLR LENS Four (4) Whelen 900 series red super LED warning lights with clear lenses and chrome bezels shall be installed, two (2) each module side, outboard of the side module scene lights. Per dwg #3 & #4	1
30-27-4110	LIGHTS, INTERSECTION REAR -WHELEN 700 LED - RED W/CLR LENS Two (2) Whelen 700 series red super LED warning lights with clear lenses, chrome bezels and water-proof connectors, shall be installed above the rear wheel wells, one (1) on each side IPOS	1
30-27-4110	LIGHTS, DOT REAR -WHELEN 700 LED - RED W/CLR LENS (2) Two (2) Whelen 700 series red super LED DOT and turn light with clear lenses, chrome bezels and water-proof connectors, shall be installed side module rear, one (1) on each side on OSS # 3 and above OSS # 4 IATS, per dwg. # 3 & # 4.	1

PART NO	DESCRIPTION	QTY
39-00-0001	MODULE BODY CONSTRUCTION - SEAMLESS	1
40-00-0001	OPTIONAL MODULE / EXTERIOR ITEMS	1
40-10-0030	-- DOCK BUMPERS, REAR Install rear dock bumpers.	1
40-10-0386	-- VEHICLE ID PLACARDS (Total 3) Three (3) vehicle ID placards shall be provided and installed as follows Drivers Side: OSS #1 door-drop in mid level with room to lift out plate Passenger Side: OSS #5 door-drop in mid level with room to lift out plate Right Rear Module: Below mid level warning lights side slide to remove	1
	The placards are to be painted to match the color of the unit and to be 12" x 12" with the the unit number decal installed. The number(s) on the placard to use the same style and shadowing of the current numbers. The unit number for this unit will be 12.	
40-00-0002	ALUMINUM PARTS - MODULE EXTERIOR	1
40-00-0010	CORROSION MINIMIZATION - MODULE	1
40-00-0020	DOOR CONSTRUCTION - GASKET PLACEMENT	1
40-00-0030	EXTERIOR COMPARTMENTS DESIGN	1
40-00-0050	EXTERIOR COMPARTMENTS, VENTING - ADDITIONAL	1
40-00-0055	EXTERIOR COMPARTMENTS, VENTING - OXYGEN STORAGE	1
40-00-0060	EXTERIOR COMPARTMENTS - SWEEP-OUT	1
40-00-0070	HANDLES, EBERHARD - CHROME FREE FLOATING TYPE	1
40-00-0080	INSULATION - POLYURETHANE SPRAY FOAM	1
40-00-0081	COATING, ACOUSTIC - AUDIOGUARD	1
40-00-0091	THRESHOLD, STAINLESS STEEL - EXTERIOR STORAGE COMPARTMENT	1
40-01-0706	OUTSIDE STORAGE #1- 2 SHELVES - MODIFIED Transverse backboard storage to OSS#5 to have (2) sections with one divider (chute dimensions 17.50"w x 19" ID x 74"l) - Install strap across transverse opening. Install (2) adjustable shelves above chute, allow minimum of 17.75" below chute for storage. Per dwg. #3 layout. The shelf track to stop at the top of the transverse storage area in compartment	1
40-02-0702	OUTSIDE STORAGE #2 - STREETSIDE CENTER - MODIFICATIONS #2 (street side center compartment) shall have a 40.25" high x 45.75" wide clear door opening with double doors and shall have 43.75" high x 50.00" wide x 20.75" deep interior dimension. Two (2) SCBA mounting brackets installed on reinforced back wall. (Delete the standard adjustable shelf and install two (2) Zico SC-50-H-5-SF SCBA mounting brackets). Per dwg. # 3.	1
40-03-0710	OUTSIDE STORAGE #3 - STREETSIDE REAR (2) SHELVES & DOUBLE DR w/ O2 Double doors installed on OSS #3. Two (2) steel "M" O2 tanks (connected together with braided O2 line will be installed on a slide out O2 board w/(2) Zico QR-MV brackets attached to the slide out board. Three (3) adjustable shelves forward of a fixed vertical divider. There will be a fixed horizontal shelf at 8" up from the bottom of the compartment floor on the right side of the vertical fixed divider to house two (2) "D" size O2 bottles below the O2 slide-out. There will be an O2 vent on the right hand outside storage door IATS/POS, per dwg. # 3. The "M" tanks shall be able to be switched in route from the interior in case one runs low. Provide and install two (2) oxygen regulators with "T" to main O2 line so customer can switch between bottles without removing the regulator	1
40-04-0701	OUTSIDE STORAGE #4 ONE (1) SHELF - RIGHT REAR - MODIFIED OSS #4 to be full depth constructed and shortened per dwg. dimensions. Compartment enclosed with double doors and equipped with one (1) adjustable shelf IPOS, per dwg. # 4.	1

PART NO	DESCRIPTION	QTY
40-05-0700	OUTSIDE STORAGE #5 - CURBSIDE FORWARD - MODIFIED OSS # 5 shall have divided transverse backboard storage to OSS #1 with inside/outside access to lower front wall cabinet IPOS, per dwg.# 3 & # 4. Install strap across transverse opening. Maintain the two (2) standard adjustable shelves upper portion of the lower front wall cabinet, per dwg. # 7.	1
40-05-0800	OUTSIDE STORAGE #5 - CURBSIDE FORWARD	1
40-09-0010	BATTERY STORAGE COMPARTMENT WITH SLIDE OUT TRAY - CURBSIDE	1
40-10-0066	- DOOR SLIDING - MODULE CURBSIDE PASSAGE	1
50-60-0030	- ASSIST HANDLES, (2) "V" STAINLESS STEEL Two (2) 1-1/4" diameter stainless steel "V" handles, one (1) on each rear passage door IPOS, per dwg. #8.	1
40-10-0088	DOORS, REAR PASSAGE	1
40-10-0100	FENDERETTES - RUBBER Install Black Rubber Fenderettes IPOS	1
40-10-0120	HOLD-OPEN, REAR DOORS - CPI GRABBERS Cast Products door grabbers (1 pair) with hard rubber inserts shall be installed on the rear doors	1
40-10-0189	LOCKS POWER - PASSAGE, COMPARTMENTS, HIDDEN SWITCH-FOB REMOT Install power door locks on module passage doors, and (5) OSS compartments. Install the hidden unlock switch in the grille area, use OEM key fobs.	1
40-10-0200	MUD FLAPS, REAR - BLACK RUBBER	1
40-10-0261	REAR STEP/BUMPER -FLIP-UP CENTER SECTION - ANODIZED	1
40-10-0281	RUB RAILS, ANODIZED ALUMINUM, 5/8" BLACK REFLECTIVE MATERIAL Bright dip anodized polished aluminum rub rails shall be installed on the lower sides of the body below the outside compartment sill areas. The rub rails shall be offset 3/16" from the body to facilitate wash down of road debris the rub rails shall incorporate a recessed 5/8" wide black reflective scotchlite safety accent stripe.	1
40-10-0321	STEPWELL, CURBSIDE DOORWAY - MID STEP AREA	1
40-10-0340	STONE GUARDS, MODULE FRONT - ANODIZED DIAMOND PLATE (24" H)	1
40-10-0360	KICKPLATE, REAR DOORWAY - ANODIZED DIAMOND PLATE A bright dip anodized aluminum diamond plate kick plate shall be installed at the rear exterior doorway, providing a kick / scuff plate at the rear of the vehicle above the rear step, per dwg. # 2.	1
40-10-0381	TOW HOOKS, MODULE REAR	1
40-10-0506	WINDOWS, PASSAGE DOOR - (CURB SLIDING, REAR SLIDING) Install sliding windows with screens in rear and curbside doors IPOS	1
50-00-0202	ROUNDED INTERIOR CORNERS	1
50-01-0100	OPTIONAL CABINET ITEMS	1
50-30-0131	- CABINET - RIGHT WALL, BEHIND SQUAD BENCH - RESTOCKING HINGE Install a shallow cabinet with restocking hinge, over the squad bench, (between the angled lights and the back pad) is shall contain a center divider with an adjustable shelf on each side. Build out the squad bench back pads to be flush with the face of the cabinet. There should be a minimum of 15" from the backpads to the edge of the bench cushion (extend the squad bench cushion if necessary).	1
50-01-0111	- CABINET CONSTRUCTION - INTERIOR - ALUMINUM Interior cabinets to be constructed of aluminum IPOS	1
50-05-0111	- CABINETS/ WALLS - POLYCHROMATIC COATING - CAMILLE WHITE Headliner, walls, cabinet faces, and cabinet interiors Zolatone color to be Camille White	1

PART NO	DESCRIPTION	QTY
50-01-0200	-- CABINET DOORS - CLEAR LEXAN Clear	1
50-10-0912	-- COUNTER TOP - SOLID ACRYLIC - BLANCA GRANITE (WHITE) A Meganite solid acrylic counter top, Blanca Granite (White) #701,	1
50-10-0926	-- COUNTER TOP ACCENT STRIPE- SOLID ACRYLIC - INDIGO GRANITE Install Indigo Granite (Dark Blue) #736 accent stripe.	1
50-60-0555	-- LONPLATE II, NON-SLIP EMBOSSED SM. GRID - GUNMETAL #424 The floor in the patient compartment shall be covered with Lonseal brand "Lonplate II" non-slip; small grid (embossed) Gunmetal #424,	1
50-60-0883	-- UPHOLSTERY - RENAISSANCE - ICE BLUE #9207 All cushion, head pads, door panels, and seating surfaces shall be covered with Spradling International "Renaissance" Ice Blue #9207	1
50-60-0391	-- HEADLINER - REAR PATIENT COMPARTMENT	1
50-01-0402	LATCHES CABINET- BLACK All interior hinged cabinet doors and drawers shall be secured with black locking latches.	1
50-10-0138	-- CABINET - LEFT WALL, UPPER REAR #1 - RESTOCKING HINGE (UP) Install a flip-up restocking hinge on cabinet #1. The cabinet shall contain a center fixed divider with one (1) adjustable shelf on each side. See dwg #5	1
50-10-0209	-- CABINET - LEFT WALL, UPPER OVER PANEL #2 -RESTOCKING HINGE The left wall, upper cabinet (#2) above the attendant control panel, to have a restocking frame IPOS. (delete fixed frame)	1
50-10-0226	-- LEFT WALL - ATTENDANT CONTROL PANEL - HINGED PANEL The color micro processor screen shall be installed on a hinged access panel and secured with two (2) locking lever latches. The panel will be located to the immediate right of the attendant's seat.	1
50-10-0303	-- CABINET - LEFT WALL, UPPER FRONT #3 Install a flanged mounted MEDVAULT IPOS upper front streetside cabinet.	1
50-10-0401	-- CABINET - LEFT WALL, LOWER REAR #4 - INSIDE/OUTSIDE - DELETED Delete the lower streetside rear inside/outside cabinet, per dwg. # 5.	1
50-10-0613	-- PRIMARY ACTION AREA	1
50-10-0641	-- SECONDARY ACTION AREA	1
50-50-0303	-- CPR SEAT - WITH HINGED SEAT BOTTOM - STORAGE BELOW Seat, CPR - lift up seat cushion, storage underneath. IPOS. The seat cushion will be held up with a gas strut.	1
20-10-0403	-- CONDENSER AUXILIARY - 2007 MODULE FRONT w/ BRUSH COVER 2007 auxiliary air conditioning condenser installed on module front IPOS (the condenser and mounting brackets painted to match module). Install a vented type brush cover on condenser intake to protect fins and coils, per dwg. # 1 notation.	1
50-20-0010	-- CABINET DOORS - LOWER FRONT WALL - ETCHED ACRYLIC	1
50-20-0266	-- CABINET - FRONT WALL, LOWER #1	1
50-20-0507	-- PASS THROUGH - CAB TO MODULE	1
50-60-0424	-- HEAT/AIR CONDITIONING, HOSELINE FT-454 4X4 AC/HEAT CORE Install Hoseline FT-454 with 4x4 AC/Heat Core. (std)	1
50-20-0263	CABINET - FRONT WALL, LOWER - SINGLE DOOR Lower front wall #1 shortened to accommodate transverse backboard compartment located below IPOS, per dwg. # 7. Cabinet shall be enclosed with a single right hinged .5" thick LEXAN door	1

PART NO	DESCRIPTION	QTY
	IPOS, per dwg. # 7. The door shall be secured with (2) two locking lever latches (1 upper/1lower located on left side). Rubber bumpers shall be provided on the cabinet. Ref Unit #5711	
50-50-0001	OPTIONAL SEATING ITEMS	1
50-50-0060	SQUAD BENCH STORAGE (COMPARTMENT #2)	1
50-50-0102	ATTN SEAT - EVS HiBAC, INTEGRAL CHILD, SWIVEL BASE Seat, Attendant - EVS high back, integral child seat, installed on a swivel base, IPOS	1
50-50-0503	SQUAD BENCH - BASE & LID WITH SHARPS AND TRASH	1
50-60-0002	OPTIONAL PATIENT COMPARTMENT ITEMS	1
50-60-0097	-- CLOCK - TRIN TEC, 8" 12/24 HR, QUARTZ BATTERY - REAR HEADPAD Install a Trin Tec battery operated, 12/24 hour clock in the headpad above the rear doors.	1
50-60-0143	-- COT SAFETY HOOK - STRYKER - LONG A long Stryker cot rear capture / safety hook shall be provided and installed, per dwg. # 9 location. Ref. UNit # 5711	1
50-60-0430	-- I V HANGERS, CEILING RECESSED - CAST PRODUCTS #IV2008-1 (1) Four (4) additional (1) Cast Products #IV2008-1 recessed, dual, ceiling I.V. hangers shall be provided and installed IATS, per dwg. # 9 locations.	4
50-60-0590	-- NET, SQUAD BENCH - CURBSIDE INTERIOR (RED) Net, Squad Bench - red shall be installed at the head of the squad bench.	1
50-60-0681	-- RADIO SPEAKERS, REAR HEAD PAD (OEM RADIO FADER CONTROL) Two (2) stereo speakers shall be installed in the rear head pad. The fader control for the rear speakers shall be in the cab radio.	1
50-60-0781	-- HOLDER / SWIVEL BASE FOR LIFE-PAK 12 & 15 (NCE H7000) Installed on second action area counter top, per dwg. # 5.	1
50-60-0015	ASPIRATOR / SUCTION - IMPACT# 324 - SELF CONTAINED - COUNTER An Impact #324 suction system with built-in pump shall be installed on the action wall counter near the attendant's seat. Located per dwg. # 5.	1
50-60-0155	COT FASTENER - STRYKER, TWO-POSITION, SIDE/CENTER Install A Stryker two position / side and center cot mount. IPOS	1
50-60-0220	EMBLEMS / SIGNS - REAR PATIENT COMPARTMENT	1
50-60-0300	FLOOR CONSTRUCTION- PATIENT COMPARTMENT, NON-WOOD COMPOSITE	1
50-60-0301	FLOORING - COVE	1
50-60-0340	GRAB RAIL, 1-1/4" DIAMETER, (96") OVER COT AREA	1
50-60-0405	HEAT/AC 110V/12V COMBO UNIT, SHORELINE-CONTROLLED/ w/ULTRAVIOLET Heat & A/C - dual voltage unit 110 / 12 V with APS-253 Ultraviolet light installed in standard heat/ac location. Twenty (20) amp Non Auto Eject shoreline with yellow cover, per dwg. #3, an aux. condenser (TMC2007 Dual) installed on module front (standard), per dwg. # 1, Climate Master controller as noted on dwg. # 5, DELETE the standard 125v heat strip. Install electrical components with vented diamond plate cover in OSS #2 compartment as per # 3 dwg. IPOS. (Note: this is a 20 amp system and departs from standard 30 amp)	1
50-60-0434	I V HANGERS, DUAL CEILING, W/ VELCRO STRAPS - PERKO #1309	1
50-60-0612	OXYGEN OUTLETS (3) WALL - OHIO MEDICAL TYPE	1
50-60-0660	PADDED EDGING PROTECTION	1
50-60-0661	PADS, HEAD AND BACK	1
50-60-0700	SHARPS/ TRASH DRAWER - SQUAD BENCH END Install a sharps/waste drawer at end of bench IPOS. Drawer opens to aisle and secured with stainless steel flush pull locking latch, per dwg. # 6. (Extends the squad bench cushion.	1

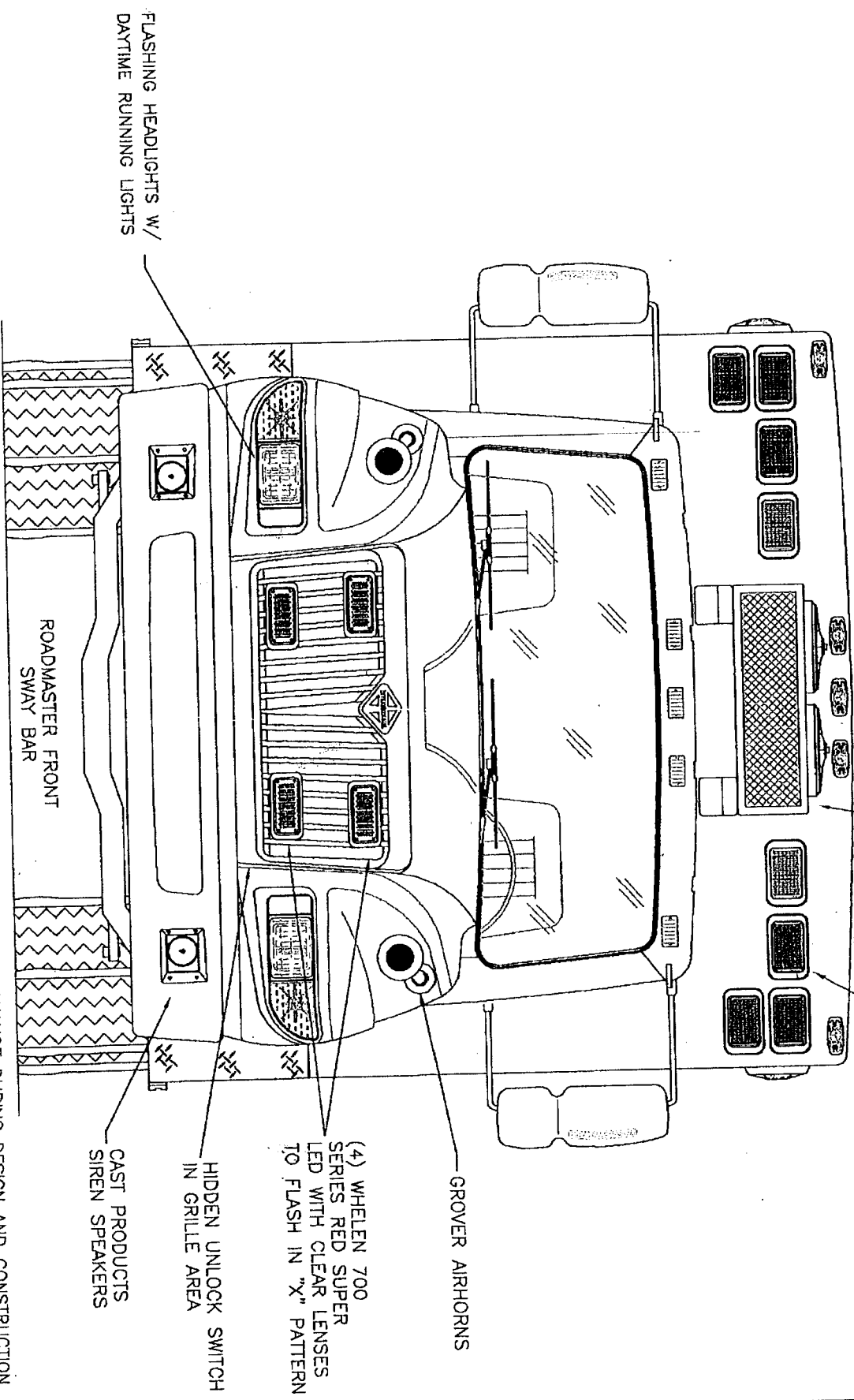
PART NO	DESCRIPTION	QTY
50-60-0731	DOOR PANELS - MODULE PASSAGE DOORS - VINYL	1
50-60-0740	STAINLESS STEEL PROTECTOR -PASSAGE DOORS - LOWER DOOR PANELS A stainless steel panel shall be installed on the interior lower portion of each passage door. The top of the stainless steel shall be installed beneath the upper door panel.	1
50-60-0761	STAINLESS STEEL WALL PROTECTION - INTERIOR STREETSIDE	1
50-60-0820	TURTLE TILE - SKID-RESISTANT MAT, CURBSIDE STEPWELL	1
60-00-0001	OPTIONAL PAINT / GRAPHIC ITEMS	1
60-10-0110	-- PAINT MODULE ALL ONE SOLID COLOR, PLUS CLEAR COAT The entire module shall be sprayed one-color and then clear coated. The PPG paint code 911659 - Red	1
60-01-0001	PPG PAINT PROCEDURE	1
60-01-0002	PAINT MODULE - OEM WHITE ROOF Paint module roof, OEM white over the roof radius to drip rail level (no drip rails), per photo Ref. Unit # 5711	1
60-01-0003	CLEAR COATING - MODULE PAINT	1
60-01-0004	BUFFING, PAINT - MODULE	1
60-01-0005	PAINT, CHASSIS - CHASSIS OEM RED/WHITE ROOF Cab paint by OEM chassis manufacturer. Bright red chassis, per chassis specifications, with OEM white cab roof and "A"/"B" Pillars. Ref. Unit # 5711 photo.	1
60-30-0200	DOOR REFLECTIVITY	1
60-SP-0001	PAINT AND GRAPHICS - SPECIAL OPTION Please duplicate the paint and graphics scheme that was done to unit # 5711	1
80-00-0001	OPTIONAL KKK CERTIFICATION ITEMS	1
80-10-0101	KKK-A-1822F COMPLIANCE	1
80-20-0001	VEHICLE MANUALS (1) PACKAGE SET One (1) Delivery Manual Package shall be supplied with the vehicle, and shall include the following items: Ambulance manufacturer parts, service and operation manuals OEM chassis owner's guide Complete 12 VDC and 125 VAC wiring schematics for all included standard and optional systems Multiplex Electrical system programming - electronic media	1
AE-TS-0001	CAB VISTA LOCATION Remove the cab vista from the floor console and install on a fixed mount in cab dash similar to Bellevue 5287. (If this install can not be completed without blocking OEM dash heat/ac controls, any other dash items or places the Vista in an greatly indirect view of the driver seat, remove the heat/ac controls to the top of the open angled console area, per photo reference).	1
PR-CD-0000	BRAUN CONCESSION	1
SE-99-0002	ASSIST HANDLES, POLYURETHANE (5) -AUSTIN AE9-01228 Install (5) Austin # AE9-01228 polyurethane door assist handles IPOS. Two (2) at rear doors, two (2) at curbside door, and one (1) on curbside door, per dwgs.	1
SP-99-0001	PRE-WIRES, 12V (2) Three (3) 12v prewires shall be installed in the module. One (1) each at the cab floor console and one (1) at the ACP in the primary action area, and one (1) for the thermal imaging camera above the console.	1

PART NO	DESCRIPTION	QTY
SP-99-0004	FRONT & REAR ROADMASTER SWAY BARS Install front and rear Roadmaster sway bars on the chassis.	1
SP-99-4000	BATTERY SWITCH - COLE HERSEE Install a battery switch, Cole Hersee with cover plate left of drivers seat. Battery switch to control chassis and module - items wired hot, must stay hot and OEM radio to retain memory Delete system activate switch at entry doors	1
SP-99-4001	BUSS BAR, 30 AMP (1 IATS) Install one (1) 30 Buss bar in the PDQ IATS.	1
SP-99-4010	REFRIGERATOR, NOR-COLD w/ THERMOMETER & MEDICO LOCK Install an aisle facing, Nor-Cold refrigerator in upper cabinet at rearward end of squad bench IATS, per dwg. # 6. Install Medico lock on aluminum plate to secure. Install thermometer on fridge, surface mount and drill hole and run wire inside for probe. Thermometer to be Grainger 2LYX2/Miljoco CD104684-60W Thermometer)	1
SP-99-4011	CABINET, DRAWER UNIT - CURBSIDE (2) Install (2) pull out drawers at the rearward end of the squad bench opening towards aisle. Drawers, per dwg. dimensions. Drawers secured with stainless steel Southco locking latches and an additional cylinder key lock (1) # KV-70 on each drawer IATS, per dwg. # 6. Both drawers to lock in the out position using locking drawer slides.	1
SP-99-4012	CABINET, DROP DOWN DOOR - PASS THRU Install a cabinet below pass through IATS, per dwg. # 7. Cabinet enclosed with drop down LEXAN door secured with black locking lever latch. Cabinet topped with Meganite counter with a standard 1.5" lips. Color to match the streetside counter top.	1

DIMENSIONS FOR OVERALL HEIGHT AND LENGTH ARE APPROXIMATE
 OVERALL HEIGHT = 111" (ESTIMATED)
 OVERALL WIDTH WITH RUB
 RAILS & FENDERLETTS = 98"

HOSELINE TMC2007 AUXILIARY AC
 CONDENSER WITH ALUMINUM DIAMOND
 PLATE PROTECTIVE BRUSH
 COVER (EXACT DESIGN TBD)

(4) WHELEN 600 SUPER LED
 LIGHTS WITH CLEAR LENSES
 ON EACH SIDE OF CONDENSER
 (THREE OUTBOARD LIGHTS ARE
 RED, INBOARD LIGHT IS WHITE)



THIS DRAWING IS FOR REPRESENTATIONAL PURPOSES ONLY. DETAILS ARE CONCEPTUAL AND ARE SUBJECT TO CHANGE DURING DESIGN AND CONSTRUCTION
 DIMENSIONS ARE APPROXIMATE UNLESS NOTED OTHERWISE TO MEET A SPECIFIC CUSTOMER NEED.

ST. JOHN'S COUNTY



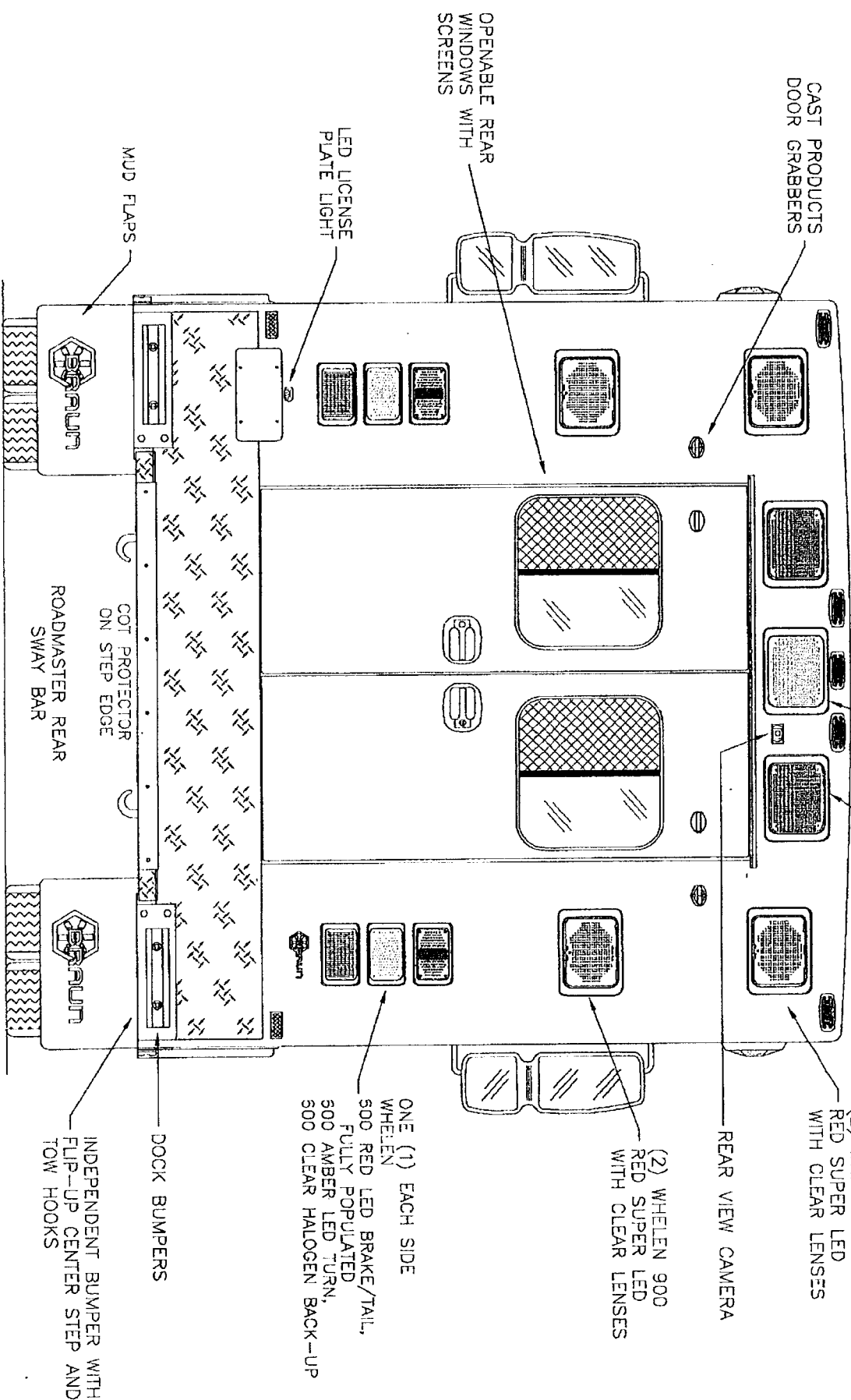
OHIO

CHIEF XL-1 / INTERNATIONAL TERRASTAR CHASSIS

2012 FRONT EXTERIOR VIEW

DATE:	30 MAY 12	DRAWING NO.:	ST JOHNS-1
DNW:	REV:		
AAB	B		

DIMENSIONS FOR OVERALL HEIGHT AND LENGTH ARE APPROXIMATE
 OVERALL HEIGHT = 117" (ESTIMATED)
 OVERALL WIDTH WITH RUB
 RAILS & FENDERLETTS = 98"



(1) WHELEN 900 AMBER SUPER LED WITH CLEAR LENS

(2) WHELEN 900 CLEAR HALOGEN LOAD LIGHTS

(2) WHELEN 900 RED SUPER LED WITH CLEAR LENSES

REAR VIEW CAMERA

(2) WHELEN 900 RED SUPER LED WITH CLEAR LENSES

ONE (1) EACH SIDE WHELEN 500 RED LED BRAKE/TAIL, FULLY POPULATED 500 AMBER LED TURN, 500 CLEAR HALOGEN BACK-UP

OPENABLE REAR WINDOWS WITH SCREENS

LED LICENSE PLATE LIGHT

MUD FLAPS

COT PROTECTOR ON STEP EDGE

ROADMASTER REAR SWAY BAR

DOCK BUMPERS

INDEPENDENT BUMPER WITH FLIP-UP CENTER STEP AND TOW HOOKS

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ST. JOHN'S COUNTY

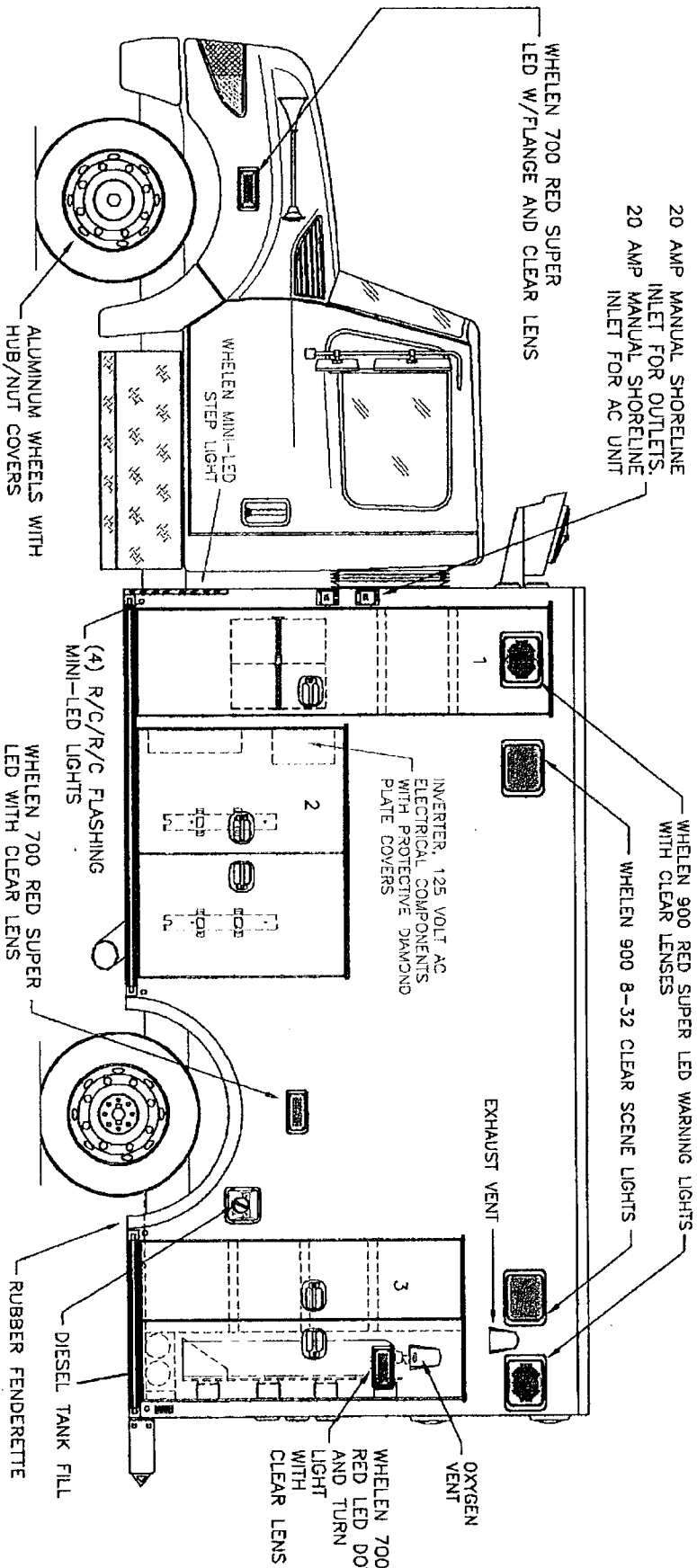


CHIEF XL-1 / INTERNATIONAL TERRASTAR CHASSIS

2012 REAR EXTERIOR VIEW

DATE:	07 JUN 12	DRAWING NO.:	ST JOHNS-2
SWG:	AAB	REV:	3
1:16			

DIMENSIONS FOR OVERALL HEIGHT AND LENGTH ARE APPROXIMATE
 OVERALL HEIGHT = 111" (ESTIMATED)
 OVERALL LENGTH = 288"
 MODULE LENGTH = 166"



COMPARTMENT
 O.S.S. #1
 CLEAR OPENING: 81.75h x 17.75w
 INSIDE DIMS.: 82.75h x 22.25w x 20.75d
 18" WIDE x 19" TALL TRANSVERSE BACKBOARD STORAGE WITH (1) CENTER VERTICAL DIVIDER
 BACKBOARD OPENING TO HAVE NYLON STRAP TWO (2) ADJUSTABLE SHELVES ABOVE BACKBOARDS

O.S.S. #2
 CLEAR OPENING: 40.25h x 45.75w
 INSIDE DIMS.: 43.75h x 50.00w x 20.75d
 (2) SCBA BRACKETS ON REINFORCED BACK WALL OF COMPARTMENT

O.S.S. #3
 CLEAR OPENING: 63.50h x 28.25w
 INSIDE DIMS.: 65.25h x 32.75w x 20.75d
 DUAL "M" TANKS ON SLIDE-OUT BOARD WITH ZICO QR-MV BRACKETS
 VERTICAL DIVIDER NEXT TO OXYGEN SLIDE-OUT STORAGE FOR (2) "D" OXYGEN BOTTLES BELOW SLIDE-OUT OXYGEN

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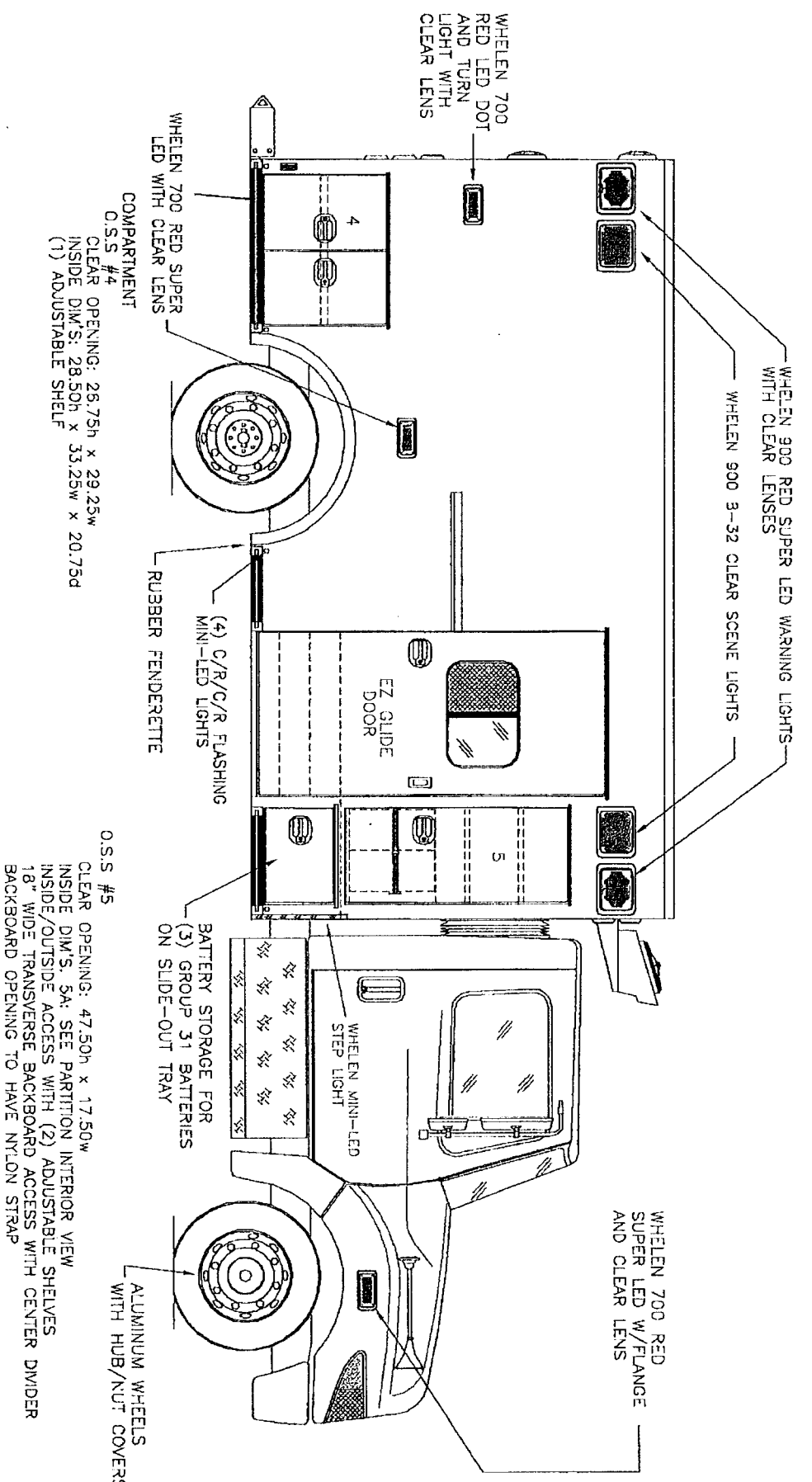
ST. JOHN'S COUNTY



2012 STREETSIDE EXTERIOR VIEW
 CHIEF XL-1/ INTERNATIONAL TERRASTAR CHASSIS

DATE	30 MAY 12	DESIGNED BY	ST JOHNS-3
DWG.	AAB	REV.	C
SCALE	1:30		

DIMENSIONS FOR OVERALL HEIGHT AND LENGTH ARE APPROXIMATE
 OVERALL HEIGHT = 111" (ESTIMATED)
 OVERALL LENGTH = 288"
 MODULE LENGTH = 165"



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ST. JOHN'S COUNTY

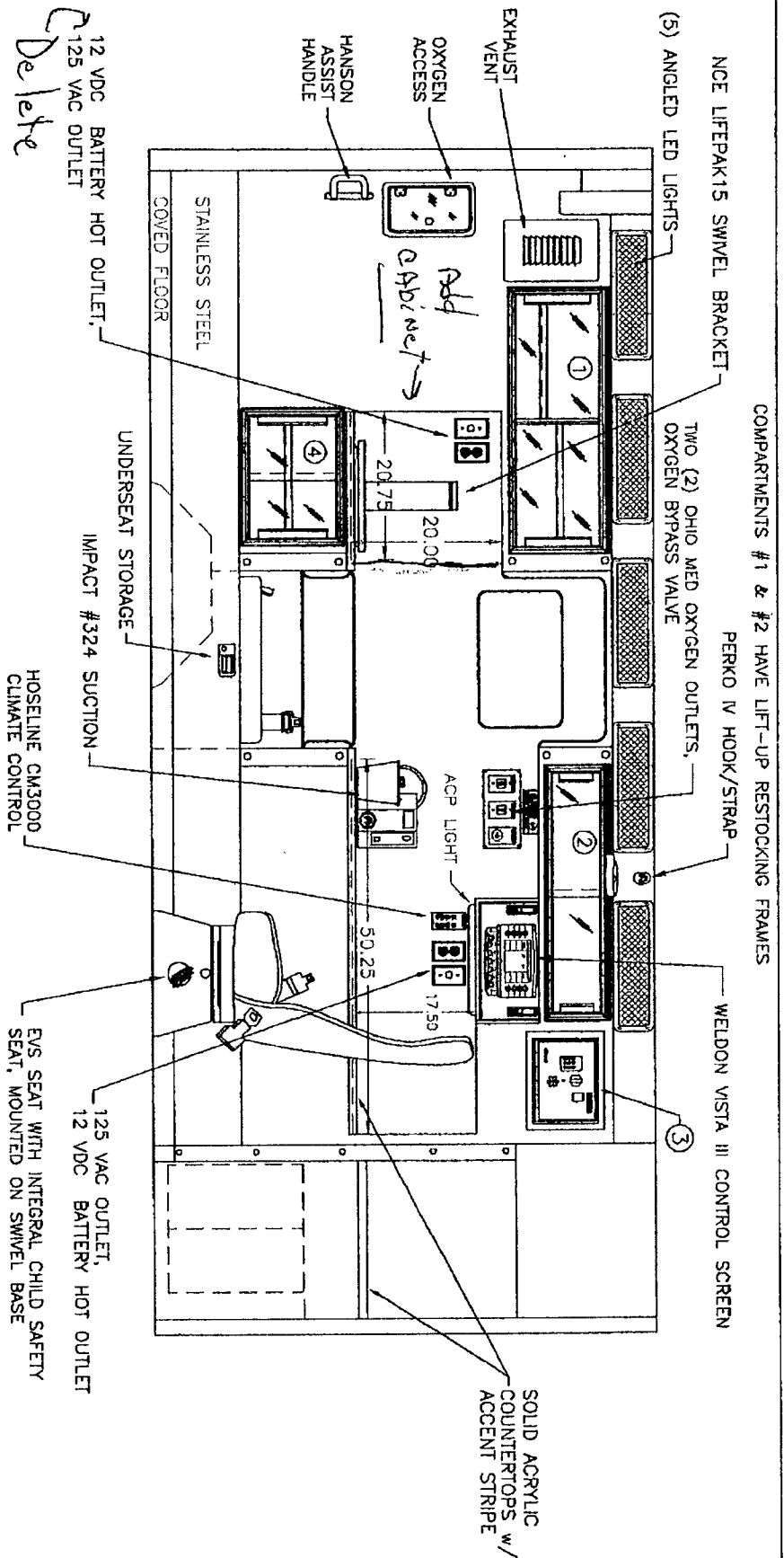


2012 CURBSIDE EXTERIOR VIEW
 CHIEF XL-1/ INTERNATIONAL TERRASTAR CHASSIS

1:30

DATE	30 MAY 12
DWG.	AAB
REV.	B

DRAWING NO. ST JOHN'S-4



COMPARTMENT
 #1 DOOR OPENING: 11.75h x 35.00w
 INSIDE DIMS: 14.25h x 37.00w x 17.25d
 FIXED CENTER DIVIDER
 ONE (1) ADJUSTABLE SHELF EA. SIDE OF DIVIDER

#2 DOOR OPENING: 6.75h x 33.25w
 INSIDE DIMS: 9.25h x 35.25w x 17.25d

#3 = FLUSH-MOUNTED KNOX MEDVAULT
 #4 DOOR OPENING: 12.00h x 17.00w
 INSIDE DIMS: 14.00h x 21.50w x 16.25d
 ONE (1) ADJUSTABLE SHELF

CABINETS TO BE ALUMINUM

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ST. JOHN'S COUNTY



2012 STREETSIDE INTERIOR VIEW
 CHIEF XL-1

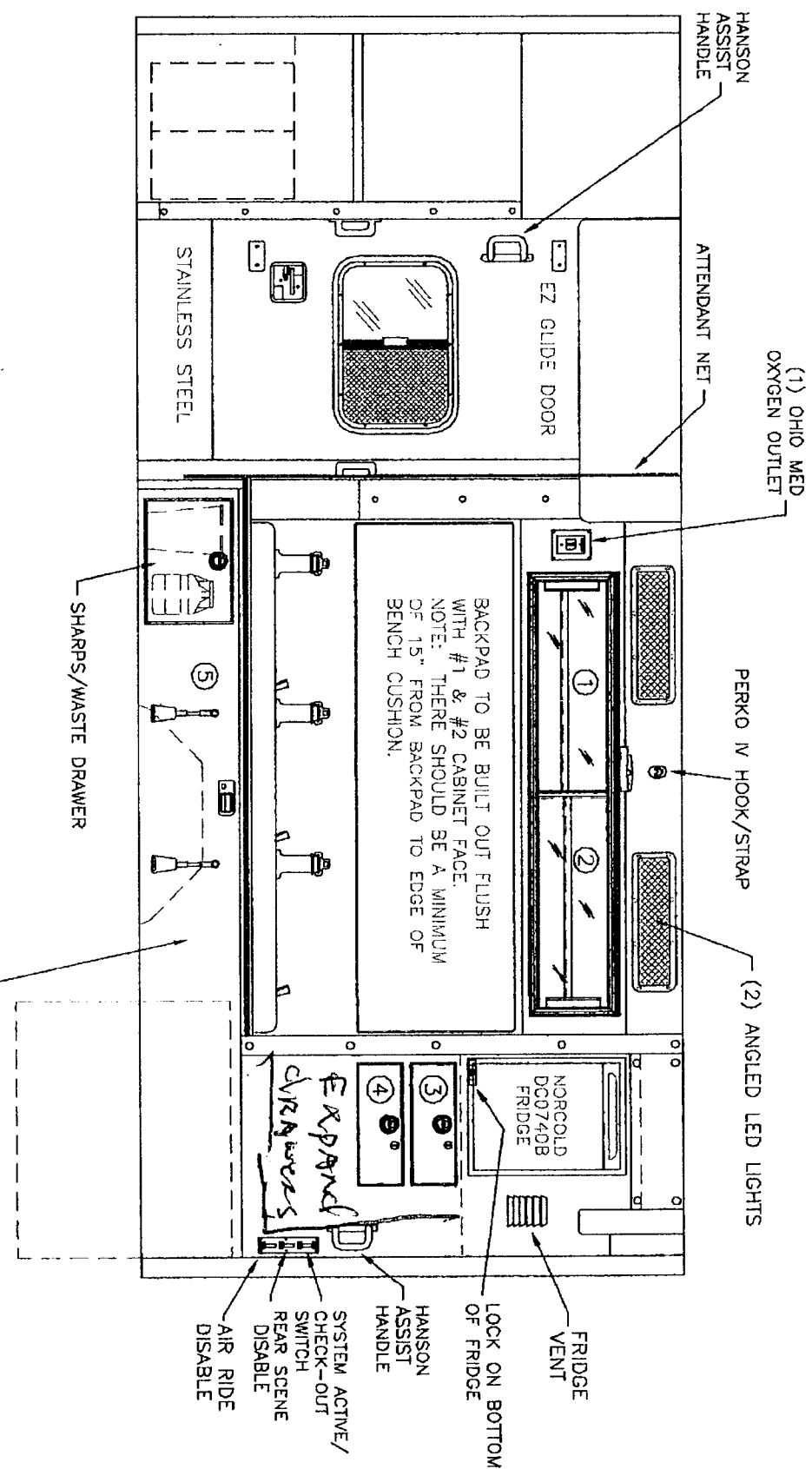
1:22

DATE:	30 MAY 12
DWG:	AAB
REV:	B

DRAWING NO.

ST JOHNS-5

COMPARTMENTS #1 & #2 HAVE RESTOCKING FRAME



COMPARTMENT
 #1-#2 DOOR OPENING: 9.25h x 56.00w
 INSIDE DIMS: 11.75h x 58.00w x 6.00d
 PERMANENT DIVIDER (CENTERED)
 ONE (1) ADJUSTABLE SHELF ON EACH SIDE OF DIVIDER

#3-#4 PULL-OUT DRUG STORAGE DRAWERS
 INSIDE DIMS: 5.00h x 13.50w x 14.00d
 ONE (1) SOUTHCOR STAINLESS STEEL FLUSH PULL LOCKING LATCH PER DRAWER
 ONE (1) KV-70 CYLINDER LOCK PER DRAWER
 LOCKING SLIDES FOR OPEN POSITION

#5 = MISC. STORAGE BELOW BENCH CUSHION
 CABINETS TO BE ALUMINUM

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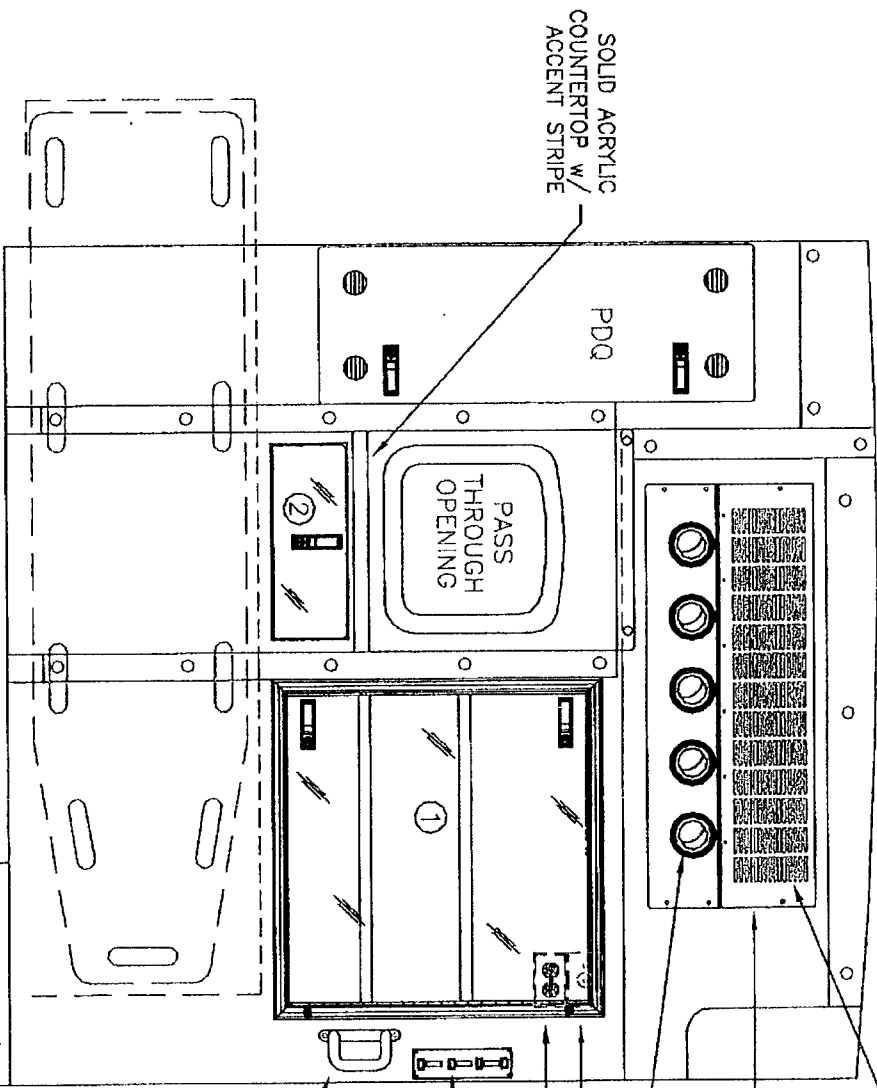
ST. JOHN'S COUNTY



2012 CURBSIDE INTERIOR VIEW
 CHIEF XL-1

DWG	07 JUN 12	REV	A	DRAWING NO.	ST JOHN'S-6
AAB					

1:20



COMPARTMENT #1 DOOR OPENING: 46.00h x 25.75w
 INSIDE DIMS: 50.00h x 31.50w x 23.00d
 RECESSED RIGHT-HINGED 1/2" LEXAN DOOR
 (2) LOCKING LEVER LATCHES
 (2) ADJUSTABLE SHELVES
 DOOR TO HAVE (2) RUBBER BUMPERS ON HINGE SIDE SO CABINET DOOR DOESN'T HIT ENTRY DOOR (REFERENCE PREVIOUS UNIT #5711)

#2 DOOR OPENING: 6.25h x 16.25w
 INSIDE DIMS: 7.75h x 18.00w x 20.00d
 DROP-DOWN ACRYLIC DOOR
 LOCKING LEVER LATCH

CABINETS TO BE ALUMINUM

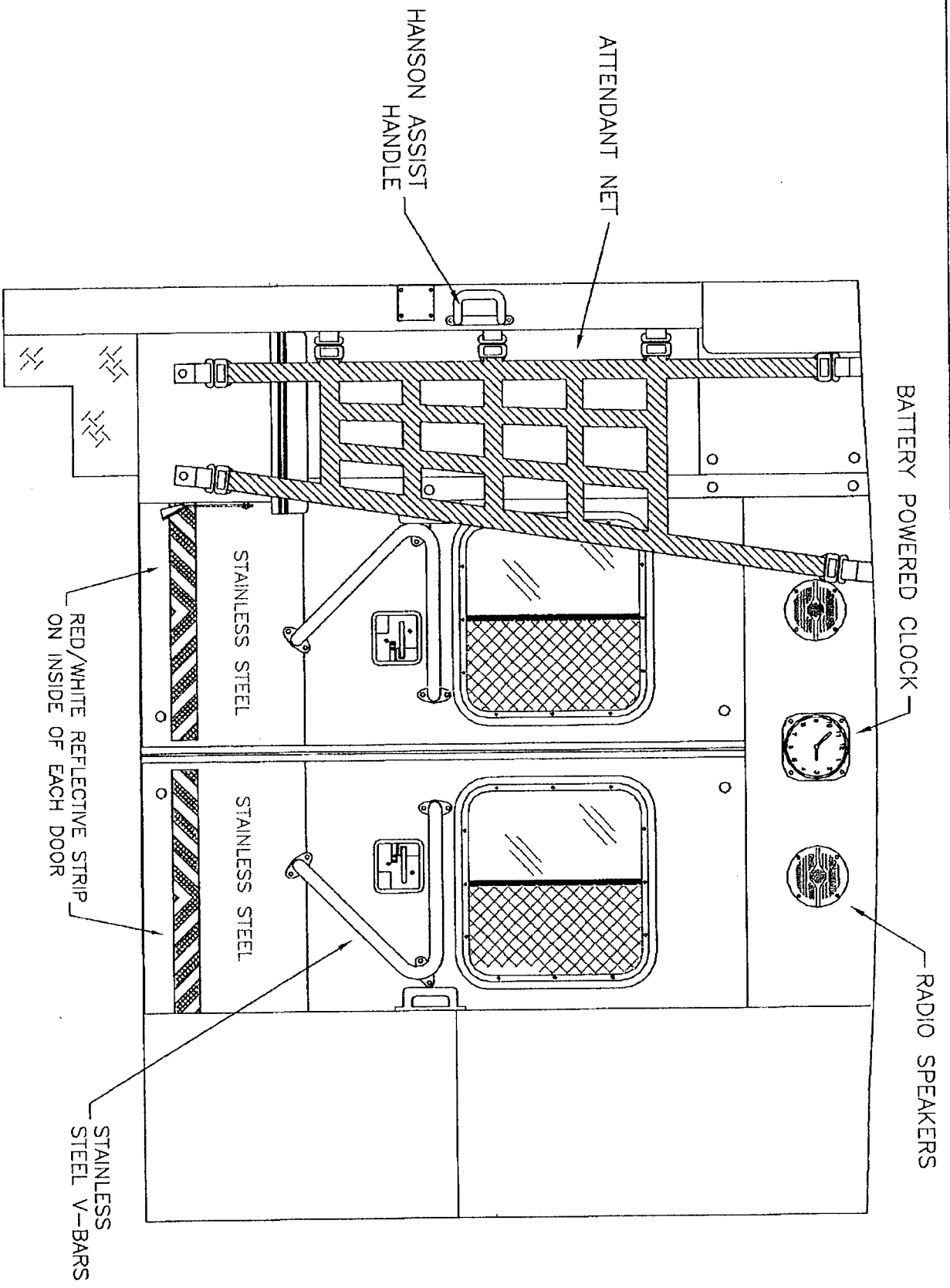
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ST. JOHN'S COUNTY



2012 PARTITION INTERIOR VIEW
 CHIEF XL-1

DATE:	07 JUN 12	DRAWING NO.:	ST JOHNS-7
SYG:	AAB	REV.:	B



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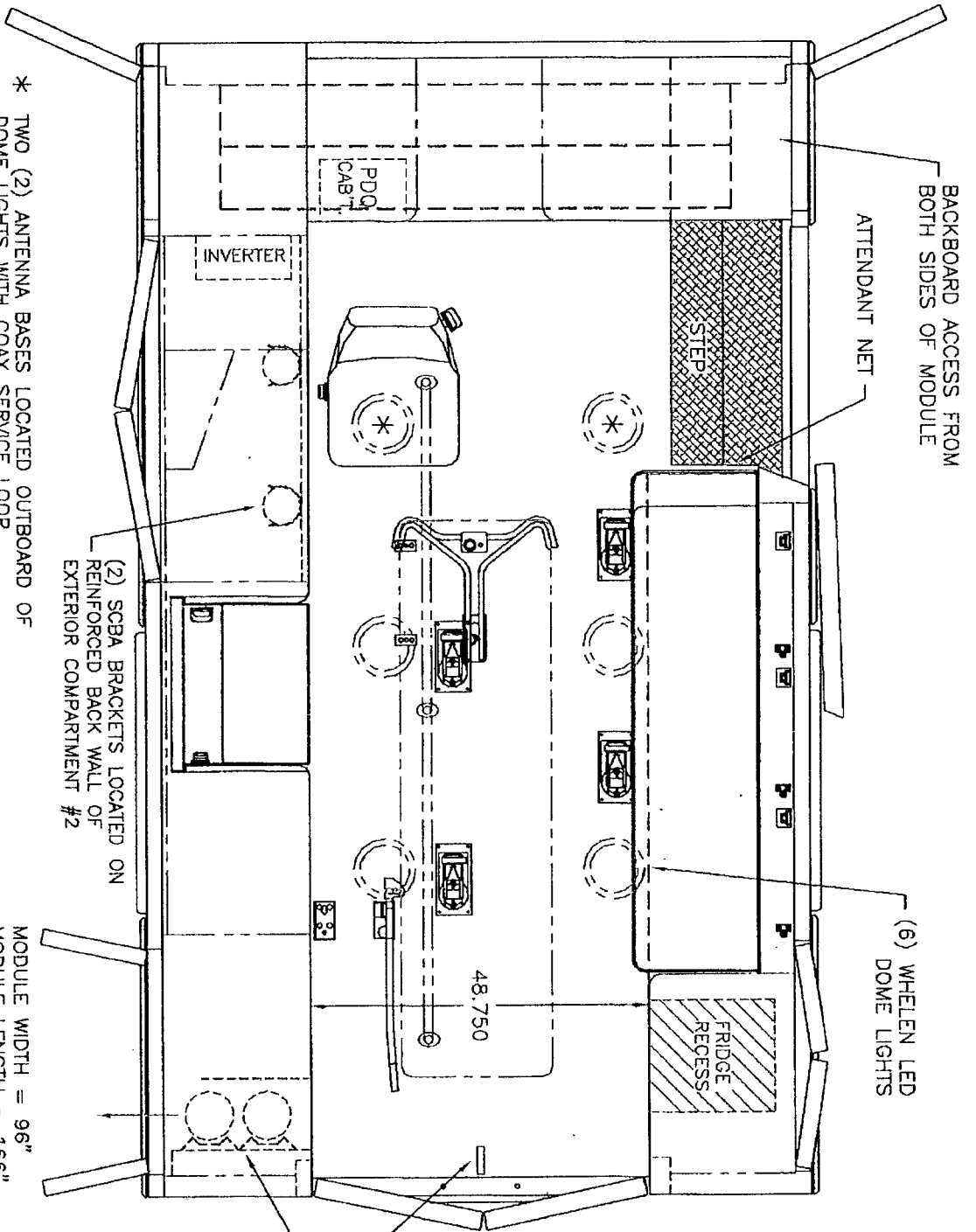
ST. JOHN'S COUNTY



2012 REAR INTERIOR VIEW
CHIEF XL-1

DATE:	07 JUN 12
DNW:	AAB/A
REV:	A

DRAWING NO.
ST JOHNS-8



BACKBOARD ACCESS FROM BOTH SIDES OF MODULE

ATTENDANT NET

(6) WHELEN LED DOME LIGHTS

FRIDGE RECESS

STRYKER TALL COT SAFETY HOOK

SLIDE-OUT DUAL "M" OXYGEN IN ZICO QR-MV BRACKETS

48.750

(2) SCBA BRACKETS LOCATED ON REINFORCED BACK WALL OF EXTERIOR COMPARTMENT #2

* TWO (2) ANTENNA BASES LOCATED OUTBOARD OF DOME LIGHTS WITH COAX SERVICE LOOP

FOUR (4) RECESSED CEILING IV HANGER LOCATIONS

STRYKER SIDE AND CENTER MOUNT COT HARDWARE

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MODULE WIDTH = 96"
MODULE LENGTH = 166"
MODULE HEAD ROOM = 72.50"

ST. JOHN'S COUNTY



2012 FLOOR INTERIOR VIEW
CHIEF XL-1

1:22

DATE:	01 FEB 12
DWG:	GLF
REV:	B

DRAWING NO.

ST JOHNS-9