

APPENDIX D-4

BENEFICIARY ELIGIBLE MITIGATION ACTION CERTIFICATION

**State of Connecticut
Round 2 April 1, 2020
Class 4-7 Trucks**

APPENDIX D-4
Beneficiary Eligible Mitigation Action Certification

BENEFICIARY ELIGIBLE MITIGATION ACTION CERTIFICATION

Beneficiary _____

Lead Agency Authorized to Act on Behalf of the Beneficiary _____
(Any authorized person with delegation of such authority to direct the Trustee delivered to the Trustee pursuant to a Delegation of Authority and Certificate of Incumbency)

Action Title:	
Beneficiary's Project ID:	
Funding Request No.	<i>(sequential)</i>
Request Type: (select one or more)	<input type="checkbox"/> Reimbursement <input type="checkbox"/> Advance <input type="checkbox"/> Other (specify): _____
Payment to be made to: (select one or more)	<input type="checkbox"/> Beneficiary <input type="checkbox"/> Other (specify): _____
Funding Request & Direction (Attachment A)	<input type="checkbox"/> Attached to this Certification <input type="checkbox"/> To be Provided Separately

SUMMARY

Eligible Mitigation Action <input type="checkbox"/> Appendix D-2 item (specify): _____ Action Type <input type="checkbox"/> Item 10 - DERA Option (5.2.12) (specify and attach DERA Proposal): _____
Explanation of how funding request fits into Beneficiary's Mitigation Plan (5.2.1):
Detailed Description of Mitigation Action Item Including Community and Air Quality Benefits (5.2.2):
Estimate of Anticipated NOx Reductions (5.2.3):
Identification of Governmental Entity Responsible for Reviewing and Auditing Expenditures of Eligible Mitigation Action Funds to Ensure Compliance with Applicable Law (5.2.7.1):
Describe how the Beneficiary will make documentation publicly available (5.2.7.2).
Describe any cost share requirement to be placed on each NOx source proposed to be mitigated (5.2.8).
Describe how the Beneficiary complied with subparagraph 4.2.8, related to notice to U.S. Government Agencies (5.2.9).

If applicable, describe how the mitigation action will mitigate the impacts of NOx emissions on communities that have historically borne a disproportionate share of the adverse impacts of such emissions (5.2.10).

ATTACHMENTS
(CHECK BOX IF ATTACHED)

- Attachment A Funding Request and Direction.
- Attachment B Eligible Mitigation Action Management Plan Including Detailed Budget and Implementation and Expenditures Timeline (5.2.4).
- Attachment C Detailed Plan for Reporting on Eligible Mitigation Action Implementation (5.2.11).
- Attachment D Detailed cost estimates from selected or potential vendors for each proposed expenditure exceeding \$25,000 (5.2.6). [Attach only if project involves vendor expenditures exceeding \$25,000.]
- Attachment E DERA Option (5.2.12). [Attach only if using DERA option.]
- Attachment F Attachment specifying amount of requested funding to be debited against each beneficiary's allocation (5.2.13). [Attach only if this is a joint application involving multiple beneficiaries.]

CERTIFICATIONS

By submitting this application, the Lead Agency makes the following certifications:

1. This application is submitted on behalf of Beneficiary _____, and the person executing this certification has authority to make this certification on behalf of the Lead Agency and Beneficiary, pursuant to the Certification for Beneficiary Status filed with the Court.
2. Beneficiary requests and directs that the Trustee make the payments described in this application and Attachment A to this Form.
3. This application contains all information and certifications required by Paragraph 5.2 of the Trust Agreement, and the Trustee may rely on this application, Attachment A, and related certifications in making disbursements of trust funds for the aforementioned Project ID.
4. Any vendors were or will be selected in accordance with a jurisdiction's public contracting law as applicable. (5.2.5)
5. Beneficiary will maintain and make publicly available all documentation submitted in

support of this funding request and all records supporting all expenditures of eligible mitigation action funds subject to applicable laws governing the publication of confidential business information and personally identifiable information. (5.2.7.2)

DATED: _____

Paul E. Farrell

Paul E. Farrell
Director of Air Planning

[LEAD AGENCY]

for

[BENEFICIARY]

APPENDIX D-4 – Supplemental Information Beneficiary Eligible Mitigation Action Certification

Beneficiary: State of Connecticut

Lead Agency: Department of Energy and Environmental Protection

In support of funding request No. 6– Class 4-7 Local Freight Trucks (Medium Trucks)

Appendix D-4-Summary

Explanation of how funding request fits into Beneficiary’s Mitigation Plan (5.2.1):

The State of Connecticut (State), pursuant to the 2018 Mitigation Plan, filed with Wilmington Trust (WT) on April 26, 2018, outlined a protocol for the selection of on-road vehicle replacement projects, including replacement of Class 4-7 Freight Trucks, to protect the state's air quality and the health of vulnerable populations. The primary goal of the State’s 2018 Mitigation Plan is to improve and protect ambient air quality by selecting and implementing eligible mitigation projects that will (1) achieve significant and sustained cost effective reductions in Nitrogen Oxide (NO_x) emissions, (2) support statewide energy, environmental and economic development goals and (3) reduce impacts on environmental justice and other impacted communities.

Transportation emissions significantly impact the State’s air quality and attainment designation, being the source of 65% of the State’s NO_x emissions; and 44% of its greenhouse gas (GHG) emissions. The funding identified in the 2018 Mitigation Plan (mitigation funding or mitigation funds) will provide the State an opportunity to mitigate the impact of excess NO_x emissions associated with Class 4-7 Local Freight (Medium) Trucks. The reduction of NO_x from this portion of Connecticut's transportation sector will improve air quality and protect human health across the state and especially in environmental justice and other underserved communities. Funding this request allows the replacement of two Class 5 trucks and eight Class 7 trucks, all with model years older than 2007, with MY2020 trucks, which will have immediate and long-lasting benefits for Connecticut's air quality.

Detailed Description of Mitigation Action Item Including Community and Air Quality Benefits (5.2.2):

Connecticut's Class 4-7 Freight Truck Replacement Project will strive to balance the environmental and societal benefits among Connecticut's cities and towns that are impacted by NO_x emissions generated by on-road diesel-fueled vehicles. The expected benefits of the Class 4-7 Medium Truck Mitigation project include reduction in the tons of pollution over the lifetime of the engines/vehicles, specifically NO_x, GHGs, and fine particulates. Decreasing air pollutants leads to improved ambient air quality and human health in communities located in nonattainment areas, areas with historical air quality issues, or in areas that bear a disproportionate share of the air pollution burden. Significant health benefits accrue from reduced public exposure to diesel particulate matter, which the U.S. Environmental Protection Agency (EPA) has classified as a likely human carcinogen. Decreasing the number of work and school days lost to asthma, chronic obstructive pulmonary disease (COPD) and other health conditions aggravated by air pollution benefits the local economy. Additional economic benefits derive from technology advances on the new trucks, improved energy efficiency saves money by decreasing fuel consumption while reducing engine emissions. The reduction in emissions of the ozone precursor, NO_x, from these projects will be a benefit in a state that is in serious nonattainment with both the 2008 and 2015 National Ambient Air Quality Standards (NAAQS) for ozone. The selected truck replacement projects will also decrease diesel

particulates in New Haven County, a maintenance area for fine particulate matter (PM_{2.5}). Additionally, the electrification of the Eversource utility buckets will improve air quality, protect public health and moves Connecticut closer to meeting greenhouse gas reduction goals.

Incentivizing the replacement of Medium Duty vehicles with mitigation funding will have an immediate impact on emissions reduction since the replacement trucks are more fuel efficient and emit less NO_x and GHG pollution. Such delivery trucks operate in congested areas, including near schools, medical facilities, shopping centers and residential areas. The selected projects target older diesel-powered vehicles for replacement with models meeting the most recent vehicle emissions standards. Projects meeting the locational selection criteria allow the use of mitigation funds to achieve significant diesel emission reductions within urban centers, surrounding suburban areas, and small towns and rural areas. Replacement of the selected delivery trucks, which have high annual mileage and idling hours, results in a high ratio of emissions reduced to dollars invested.

Proposals from Eversource, H.I. Stone & Son (H.I. Stone), and State Line Propane, LLC (State Line) were selected for funding under the Class 4-7 Medium Truck Replacement mitigation action category. H.I. Stone will replace two (2) Class 5 diesel trucks with equivalent diesel trucks to be used for various purposes in some of the more congested areas in Connecticut including Waterbury, Hartford and Stamford. (H.I. Stone is also replacing two Class 8 trucks which will be included in a separate D-4 filing for Class 8 Trucks.) The five Eversource trucks will be used to deliver cargo and freight to the jobsite. These trucks travel between their work communities and domiciled locations. Despite traveling in a close radius, the emissions can be significant due to the extensive idling of these trucks. Replacing these older utility trucks with new vehicles will significantly reduce emissions and fuel usage through improved fuel economy. In addition, the Jobsite Energy Management System (JEMS) plug-in technology will further reduce emissions and improve fuel economy through automatically eliminating idling while operating the buckets. State Line's three trucks will be used to deliver fuel oil and propane for heating purposes to the residents of North Central Connecticut. Two of the three diesel-powered trucks will be replaced with propane-powered delivery trucks. There will be a significant reduction in NO_x emissions with the switch from diesel to propane.

The program focuses on delivery and utility fleets that operate their vehicles a disproportionate amount of time within high population centers. Replacing these delivery and utility trucks with the newest generation of clean diesel and propane engines, decreases pollution in the communities they serve. Since the trucks travel through neighborhoods and idle while operating and making deliveries, placing an emphasis on cleaner replacements in this category will benefit local air quality.

Additionally, all three grant recipients, Eversource, H.I. Stone, and State Line Propane, implement anti-idling programs, satisfying a preferential criteria as outlined in the Diesel Mitigation Plan and during the selection process.

Estimate of Anticipated NO_x Reductions (5.2.3):

The estimated emissions were calculated using the EPA's Diesel Emissions Quantifier (DEQ.) For the propane project, Argonne National Lab's Alternative Fuel Life-Cycle Environmental and Economic Transportation (AFLEET) tool was used to project the baseline emissions of the new, propane-powered trucks. The anticipated NO_x emissions reductions from the Class 4-7 truck mitigation project is 1.94 tons per year (tpy) and lifetime NO_x emissions reduction from this group is approximately 4.62 tpy.

Describe how the Beneficiary will make documentation publicly available (5.2.7.2):

Complete information and documentation will be posted on DEEP's Volkswagen incentive program website at: <https://portal.ct.gov/DEEP/Air/Mobile-Sources/VW/VW-Settlement---Home>;

promotional materials will also be posted and cross-linked on DEEP's Diesel Grants and Funding page at: <https://portal.ct.gov/DEEP/Air/Mobile-Sources/DERA-Grants> and on its [Drive Clean CT](#) Facebook Page.

Describe any cost share requirement to be placed on each NO_x source proposed to be mitigated (5.2.8):

Connecticut's 2018 Mitigation Plan outlines that diesel mitigation funds will provide for non-government owned medium trucks:

- Up to 40% of the cost of a repower with a new diesel or alternate fueled engine, including the costs of installation of the engine,
- Up to 25% of the cost of a new diesel or alternate fueled vehicle,
- Up to 60% of the cost of a repower with a new all-electric engine, including the costs of installation of such engine, and charging infrastructure associated with the new all-electric engine; and
- Up to 60% of the cost of a new all-electric vehicle, including charging infrastructure associated with the new all-electric vehicle.

The three projects selected for the second round of the Class 4-7 Freight Truck Replacement Project, Eversource, H.I. Stone, and State Line were awarded 25% of the cost of the new diesel trucks, which results in a 75% cost share for each grantee. A total of \$502,205.75 has been allocated from Trust funds for the Class 4-7 trucks replacement mitigation project. The second round of the Class 4-7 Truck Diesel Mitigation Project will replace a total of two (2) Class 5 diesel trucks and eight (8) class 7 diesel trucks. Two of the Class 7 replacement trucks will be propane trucks and the remaining six Class 7 trucks will be diesel.

Describe how the Beneficiary complied with subparagraph 4.2.8, related to notice to U.S. Government Agencies (5.2.9):

On February 22, 2018, within 30 days of the State being named a Beneficiary, the Connecticut Department of Energy and Environmental Protection (DEEP), the State's Lead Agency as designated in accordance with the requirements specified in Appendix D-3, contacted, by U.S. Post and electronic mail, the U.S. Departments of Agriculture and Interior, as specified in subparagraph 4.2.8, plus the Bureau of Indian Affairs, the Defense Department and Bureau of Prisons, all of which have lands in the state.

If applicable, describe how the mitigation action will mitigate the impacts of NO_x emissions on communities that have historically borne a disproportionate share of the adverse impacts of such emissions (5.2.10):

The replacement of Class 4-7 trucks has the potential to positively impact air quality in environmental justice communities because the vehicles operate in congested urban areas, operating and making deliveries to businesses and homes. The selection criteria also favored areas that receive a disproportionate quantity of air pollution from diesel fleets such as, but not limited to, ports, rail yards, truck stops, airports, terminals, and bus depots. The Eversource project will replace five (5) utility trucks that operate in designated environmental justice (EJ) communities. By electrifying the utility buckets, the trucks will eliminate idling in the EJ communities including Hartford and Torrington. Replacement of the older diesel trucks with new, efficient engines and the hybrid-electric buckets results in NO_x percentage reductions ranging from 85 percent to 90 percent. In addition to reduced emissions, since these trucks utilize battery storage to operate the vehicle while idling, the vehicle operators and local community safety is enhanced through a quieter jobsite. The new H.I. Stone trucks will reduce idling and will be equipped with Diesel Particulate Filters (DPFs) that will further reduce NO_x emissions. H.I. Stone trucks operate in Hartford and Waterbury which are cities traversed by major highways, thus receiving a disproportionate quantity of air pollution from diesel fleets. State Line Propane operates and makes deliveries to customers who live in areas that receive a disproportionate quantity of air pollution from diesel fleets such as, but not limited to, ports, rail yards, truck stops, airports, terminals, and bus depots. Switching from diesel to propane will result in lower emissions for those areas.

**ELIGIBLE MITIGATION ACTION MANAGEMENT PLAN INCLUDING DETAILED
BUDGET AND IMPLEMENTATION AND EXPENDITURES TIMELINE**

ATTACHEMENT B

**PROJECT MANAGEMENT PLAN
PROJECT SCHEDULE AND MILESTONES
CLASS 4-7 FREIGHT/MEDIUM TRUCKS CATEGORY**

Project Management Plan– Project Schedule and Milestones

Milestone	Date
Connecticut submitted its beneficiary form to US District Court, CA Northern District and to the Trustee	October 2017
Connecticut certified as a Designated Beneficiary under the VW Trust	January 29, 2018
Connecticut submitted its final mitigation plan to Wilmington Trust (the Trustee).	April 26, 2018
Request for Round 2 Proposals Announced	August 1, 2019
DEEP Informational Webinar	August 7, 2019
Request for Round 2 Proposals Closing - Application Deadline	September 16, 2019
Round 2 Awards Selected and Notification sent to Awardees/Recipients	November 22, 2019
Recipients enter into Contracts, Purchase Orders	CY 2020, Q1
Class 4-7 Trucks Delivered	CY 2020, Q2 – Q4
Recipients submit proof of destruction and scrappage documentation	CY 2021, Q1- Q2
DEEP Receives all required invoices and documentation	Upon completion but no later than May 31, 2021
DEEP reviews, requests corrections if necessary, certifies project completion, and provides reimbursement.	CY2020, Q4 – CY2021, Q1-Q2
DEEP reports to Trustee on status of and expenditures with Mitigation Actions completed and underway	Within 6 months of first disbursement; January 30 and July 30 thereafter

Project Budget

Budget Category	Total Approved Project Budget	Share of Total Budget Funded by the Trust	Cost Share (Paid by Recipients 1, 2 & 3 – Eversource, H.I. Stone & Son, and State Line Propane)
Equipment Expenditure			
Eversource– Recipient #1	\$1,304,330.00	\$326,083.00	\$978,247.00
H.I. Stone & Son –Recipient #2	\$319,434.98	\$79,858.75	\$239,576.24
State Line Propane – Recipient #3	\$385,054.00	\$96,624.00	\$288,790.00
Project Totals	\$2,008,818.98	\$502,205.75	\$1,506,613.24
Percentage of Total Project Cost	100%	25%	75%
DEEP Administrative ¹	\$75,330.86	\$75,330.86	\$0
Project Totals with DEEP Administrative	\$2,084,149.84	\$577,536.61	\$1,506,613.24

¹Subject to Appendix D-2 15% administrative cap

PROJECTED TRUST ALLOCATIONS

	2017	2018	2019 - 2020	2020-2021
1. Anticipated Annual Project Funding Request to be paid through the Trust	\$0	\$0	\$0	\$577,536.61
2. Anticipated Annual Cost Share	\$0	\$0	\$0	\$1,506,613.24
3. Anticipated Total Project Funding by Year (line 1 plus line 2)	\$0	\$0	\$0	\$2,084,149.84
4. Cumulative Trustee Payments Made to Date Against Cumulative Approved Beneficiary Allocation	\$0	\$0	\$521,190.94	\$0
5. Current Beneficiary Project Funding to be paid through the Trust (line 1)	\$0	\$0	\$0	\$577,536.61
6. Total Funding Allocated to Beneficiary, inclusive of Current Action by Year (line 4 plus line 5)	\$0	\$0	\$0	\$577,536.61
7. Beneficiary Share of Estimated Funds Remaining in the Trust	\$0	\$0	\$0	\$49,552,556.32
8. Net Beneficiary Funds Remaining in Trust, net of cumulative Beneficiary Funding Actions (line 7 minus line 6)	\$0	\$0	\$0	\$48,975,019.71

ATTACHMENT B

ELIGIBLE MITIGATION ACTION MANAGEMENT PLANS

ATTACHMENT B-1

ELIGIBLE MITIGATION ACTION MANAGEMENT PLAN FOR EVERSOURCE

Eligible Mitigation Action Management Plan

Purpose: The purpose of this project is to replace the five Navistar trucks listed below with 2020 Model Year (MY) diesel-powered International Model MV607 hybrid-electric bucket lift trucks. Because of technology advances on the new trucks, the project will enhance air quality by reducing engine emissions and improve engine efficiency by decreasing fuel consumption. The reduction in emissions of the ozone precursor, nitrogen oxides, will be a benefit in a state that is in nonattainment with the National Ambient Air Quality Standards for Ozone. Additionally, the electrification of the buckets will improve air quality, protect public health and moves Connecticut closer to meeting greenhouse gas reduction goals.

Unit Number	Vehicle Class or Type of Equipment	Engine Make	Engine Model	Engine Model Year	Vehicle Identification Number (VIN)	Engine Serial Number
CT001	Bucket Lift Truck	Navistar	DT466HT	2007	1HTMKAAN47H436084	466HM2U2125463
CT002	Bucket Lift Truck	Navistar	DT466HT	2007	1HTMKAAN27H436083	466HM2U2125464
CT006	Bucket Lift Truck	Navistar	DT466HT	2007	1HTMKAAN27H436097	466HM2U2131017
CT007	Bucket Lift Truck	Navistar	DT466HT	2007	1HTMKAAN97H436100	466HM2U2135664
CT008	Bucket Lift Truck	Navistar	DT466HT	2007	1HTMKAAN07H436101	466HM2U2135658

Eversource Energy Service Company (Eversource) shall be responsible for all phases of the project including project management services and materials as needed to complete this project. Completion of the project shall include documentation of the scrapping of the replaced trucks.

Project Title: *Eversource CT VW Project – Hybrid-Electric Bucket Trucks*

Description: Following the approval of this Eligible Mitigation Action Management Plan (Plan), Eversource shall begin providing the services outlined in the plan, and continue to provide services through the completion of the project, which will be no later than May 31, 2021.

1. Funding:

The Connecticut Department of Energy and Environmental Protection (DEEP) is granting \$326,083.00 in 2019 Volkswagen NOx Mitigation Trust funding to Eversource, the grantee. Eversource has agreed to contribute an estimated additional \$978,247.00 to the above referenced project through a combination of cash and in kind services, bringing the estimated total value of the project to \$1,304,330.00. Payment is contingent upon documentation of the completion of the tasks outlined in this Plan.

2. Work Tasks

The Plan is summarized according to the following three tasks:

Task 1: Planning and Procurement

Task 2: Delivery and Scrappage

Task 3: Provide Updates and Information for Semi-Annual and Other Reports as Required

Task 1: Planning and Procurement:

Eversource shall conduct the project, provide oversight and track project progress. To ensure timely completion of the project, Eversource shall include, in this Plan, a work plan with a schedule of expected target dates, milestones, responsible parties and completion dates to achieve specific tasks and accomplishments during the budget and project period. The schedule must be approved by Eversource and DEEP.

Eversource intends to use their own procurement processes to identify possible vendors for the purchase of the trucks. Specifically, in 2015-16, Eversource conducted a competitive bid for a long-term 10 year commitment to provide its utility bucket trucks, receiving and evaluating three bids. During this bid process only one vendor offered an option for a hybrid-electric bucket truck (as part of a Green Program), through a proprietary plug-in hybrid system developed internally. Because of the long-term partnership with the chosen vendor and the need to build a uniform fleet, Eversource intends to purchase the new vehicles from the same vendor. Those procurement procedures will reflect all applicable Federal, State and local laws, rules and regulations. The requirements for accessing VW Trust funds require the submission of detailed cost estimates from selected or potential vendors for each proposed expenditure exceeding \$25,000 (Section 5.2 of the Environmental Mitigation Trust Agreement for State Beneficiaries (Mitigation Trust Agreement) between Connecticut, as a State Beneficiary, and Wilmington Trust (Item 3 below)).

Task 1 Deliverables:

- Approved work plan with project timeline/schedule
- Current estimate or proposal from one potential vendor
- Summary of criteria used for selecting Vendor and name of Vendor selected (lowest bid is not required)
- Copy of Purchase Order issued for new trucks
- Documentation of down payments or other up-front payments made for the project

Task 2: Delivery of New Trucks and Scrappage of Replaced Trucks, Completion of Project:

After selecting a Vendor and issuing a Purchase Order for the new trucks, Eversource will track the progress of the manufacturing and outfitting of the new trucks for their intended use. When that process is complete, Eversource shall take delivery of the vehicles.

Eversource shall render the replaced vehicles and their engines inoperable, in accordance with Mitigation Trust Agreement requirements for scrappage under the VW grant. This will include cutting the frames and drilling the engines to render the vehicle inoperable. Eversource shall provide documentation that the vehicles have been scrapped. Eversource shall submit to DEEP an invoice for payment, along with confirmation that the project has been completed.

Task 2 Deliverables:

- Invoice from the Vendor for delivered trucks and documentation of payment to Vendor
- Completed copy of Certificate of Engine/Chassis Destruction (See Appendix A)
- Required photographic scrappage documentation for each replaced truck:
 - VIN plate
 - Engine plate showing serial number
 - Side profile of vehicle before destruction
 - Cut chassis rails
 - Engine block before drilling
 - Engine block with 3-inch diameter hole
- Confirmation that the project is completed and that the trucks are operating satisfactorily for their intended use
- Completed copy of Final Request for Payment Form with attachments submitted to DEEP for reimbursement under the grant

Task 3: Provide Updates and Information for Semi-Annual and Other Reports as Required.

Eversource shall provide DEEP with status updates to be included in DEEP's semi-annual reports to Wilmington Trust. Semi-annual progress updates will be requested before the 1st of the month following the end of each half year (i.e., July 1, 2020, and January 1, 2021). Follow-up status reports may be requested after April of 2021. Eversource will also contribute material necessary for a final report upon completion of the project, which shall be no later than May 31, 2021. Items to be provided may include, but will not be limited to:

- Environmental results;
- Work plan accomplishments;
- Challenges encountered during planning and implementation;
- Emissions reductions;
- Budgetary issues, including funds expended;
- Public relations activities;
- Technical and identification information for vehicles and engines; and
- Jobs preserved or created.

Task 3 Deliverables:

- *Status Updates for Semi-annual Reports*
- *Any required material for Final Report*

3. VW Mitigation Trust Grant Conditions

Eversource commits to comply with the conditions listed in the Mitigation Trust Agreement between Connecticut, as a State Beneficiary, and Wilmington Trust, which is attached as Appendix B.

4. Submission of Materials:

For the purposes of this Plan, all correspondence, summaries, reports, products, requests and invoices shall be submitted to:

Jennifer Arienti (Assigned Project Manager)
 Department of Energy and Environmental Protection
 Bureau of Air Management
 79 Elm Street
 Hartford, CT 06106-5127
 E-Mail: Jennifer.Arienti@ct.gov

5. Extensions/Amendments:

Formal written amendment of the agreement is required for changes to the terms and conditions specifically stated in the original agreement and any prior amendments.

Time extensions may be granted, under certain circumstances, upon request. **Otherwise, the Project must be completed by May 31, 2021.**

6. Schedule of Tasks & Payments:

Payments by Wilmington Trust shall allow for use of funds to meet allowable financial obligations incurred in conjunction with this Project and shall be scheduled as follows, provided that the total sum of all grant payments shall not exceed \$326,083.00.

Schedule of Tasks & Payments


Task & Deliverables	Task Delivery Date	Estimated Budget		
		Wilmington Trust	EVERSOURCE Cost-Share	Project Total
1. Planning & Procurement: <ul style="list-style-type: none"> Approved work plan with project timeline/schedule Summary of criteria used for selecting Vendor and name of Vendor selected 	December 2019- January 2020	\$0	\$0	\$0
<ul style="list-style-type: none"> Copy of Purchase Order issued for new trucks Documentation of down payments or other up-front payments made for the project 	February- March 2020	\$0	\$0	\$0
2. Delivery of New Trucks, Scrappage of Replaced Trucks, Completion of Project <ul style="list-style-type: none"> Invoice from the Vendor for delivered trucks and documentation of payment to Vendor Required photographic scrappage documentation for replaced trucks 	October 31, 2020	\$0	\$1,304,330.00	\$1,304,330.00
	May 31, 2021	\$326,083.00	-\$326,083.00	\$0

<ul style="list-style-type: none"> Completed copy of Certificate of Engine/Chassis Destruction Confirmation that the project is completed and that the trucks are operating satisfactorily for their intended use Completed copy of Final Request for Payment Form with attachments submitted to DEEP for reimbursement under the grant 				
4. Provide Updates and Information for Semi-Annual and Other Reports <ul style="list-style-type: none"> Status Update for First Semi-Annual Report Status Update for Second Semi-Annual Report Status Update for Third Semi-Annual Report Status Update for Fourth Semi-Annual Report. Status Update for Fifth Semi-Annual Report. Status Update for Sixth Semi-Annual Report. Required material for Final Report (upon completion but no later than 5/31/21) 	07/01/20 01/01/21 07/01/21 01/01/22 07/01/22 01/01/23 05/31/21	\$0	\$0	\$0
Total:		\$326,083.00	\$978,247.00	\$1,304,330.00

Payment for each task referenced above cannot exceed the budgeted amount for each task. Total Payment shall not exceed a maximum of \$326,083.00, which shall constitute full and complete compensation from the Wilmington Trust for the replacement of five utility bucket lift trucks. The total sum of all payments shall not exceed total funds committed by DEEP.

Payment is contingent upon completion of the tasks outlined in this Plan and providing documentation of compliance with the Mitigation Trust Agreement, between DEEP and Wilmington Trust, which is attached as Appendix B.

Signature, Eversource
Energy Service Company
Authorized Representative



12/18/19
Date

Typed Name Michael Papachristos

Signature, DEEP Assigned
Project Manager



12/19/19
Date

Typed Name Jennifer Arienti

Appendix C: Certificate of Engine/Chassis Destruction

(Attached under separate cover)

Appendix D: Environmental Mitigation Trust Agreement for State Beneficiaries

(Attached under separate cover)

ATTACHMENT B-2

ELIGIBLE MITIGATION ACTION MANAGEMENT PLAN FOR H.I. STONE & SON

Eligible Mitigation Action Management Plan

Purpose: The purpose of this project is for H.I. Stone & Son Inc (H.I. Stone) to replace two Class 5 diesel trucks and two Class 8 diesel trucks, described in Appendix A, with equivalent diesel trucks described in Appendix B. The new trucks will be used for various purposes in some of the more congested areas in Connecticut including Waterbury, Hartford, Greenwich and Stamford. Because of technology advances on the new trucks, the project will enhance air quality by reducing engine emissions and improve engine efficiency by decreasing fuel consumption. The reduction in emissions of the ozone precursor, nitrogen oxides, will be a benefit in a state that is in nonattainment with the National Ambient Air Quality Standards for Ozone and in several neighborhoods that have been disproportionately impacted by air pollution from diesel vehicles.

H.I. Stone shall be responsible for all phases of the project including project management services and materials as needed to complete this project. Completion of the project shall include documentation of the scrappage of the replaced trucks.

Project Title: *Replacement of Two Class 8 & Two Class 5 Diesel Trucks*

Description: Following the approval of this Eligible Mitigation Action Management Plan (Plan), H.I. Stone shall begin providing the services outlined in this Plan, and continue to provide services through the completion of the project, which will be no later than May 31, 2021.

1. Funding:

The Connecticut Department of Energy and Environmental Protection (DEEP) is granting a maximum of \$152,161 in 2019 Volkswagen NOx Mitigation Trust funding to H.I. Stone, the grantee. H.I. Stone has agreed to contribute an estimated additional \$456,483 to the above referenced project through a combination of cash and in kind services, bringing the estimated total value of the project to \$608,646. Payment is contingent upon documentation of the completion of the tasks outlined in this Plan.

2. Work Tasks

The Eligible Mitigation Action Management Plan is summarized according to the following three tasks:

Task 1: Planning and Procurement

Task 2: Delivery and Scrappage

Task 3: Provide Updates and Information for Semi-Annual and Other Reports as Required

Task 1: Planning and Procurement:

H.I. Stone shall conduct the project, provide oversight and track project progress. To ensure timely completion of the project, H.I. Stone shall include, in this Plan, a work plan with a schedule of expected target dates, milestones, responsible parties and completion dates to achieve specific tasks and accomplishments during the budget and project period. The schedule must be approved by DEEP and H.I. Stone.

H.I. Stone may use their own procurement processes to identify possible vendors for the purchase of the trucks. However, those procurement procedures must reflect all applicable Federal, State and local laws, rules and regulations. The requirements for accessing VW Trust funds require the submission of detailed cost estimates from selected or potential vendors for each proposed expenditure exceeding \$25,000. This is described in Section 5.2 of the Environmental Mitigation Trust Agreement for State Beneficiaries (Mitigation Trust Agreement) between Connecticut, as a State Beneficiary, and Wilmington Trust, which is attached as Appendix D.

Task 1 Deliverables:

- Approved work plan with project timeline/schedule
- Estimates or proposals from potential vendors
- Summary of criteria used for selecting vendor
- Name and address of vendor selected
- Copy of purchase order issued for new trucks
- Documentation of down payments or other up-front payments made for the project

Task 2: Delivery of New Trucks and Scrappage of Replaced Trucks, Completion of Project:

After selecting a vendor and issuing a purchase order for the new trucks, H.I. Stone will track the progress of the manufacturing and outfitting of the new trucks for their intended use. When that process is complete, H.I. Stone shall take delivery of the vehicles.

H.I. Stone shall render the replaced vehicles and their engines inoperable, in accordance with Mitigation Trust Agreement requirements for scrappage under the VW grant. Disabling the engine consists of cutting, drilling, and at a minimum punching a three inch by three-inch (3" x 3") hole in the engine block. Disabling the chassis consists of cutting completely through the frame/frame-rails on each side of the vehicle at a point located between the front and rear axles.

H.I. Stone shall provide documentation that the vehicles have been scrapped. H.I. Stone shall submit to DEEP an invoice for payment, along with confirmation that the project has been completed.

Task 2 Deliverables:

- Invoice from the vendor for delivered trucks and documentation of payment to vendor
- Completed copy of Certificate of Engine/Chassis Destruction (See Appendix C)
- Required photographic scrappage documentation for replaced trucks, at a minimum, must include:
 - Side profile of vehicle
 - VIN
 - Engine Label with serial number visible
 - Chassis rails cut in half
 - Engine block, prior to hole
 - Engine block, after hole
 - Other pictures as needed

- Confirmation that the project is completed and that the trucks are operating satisfactorily for their intended use
- A Completed copy of the Final Request for Payment Form with attachments to DEEP for reimbursement under the grant

Task 3: Provide Updates and Information for Semi-Annual and Other Reports as Required.

H.I. Stone shall provide DEEP with status updates to be included in DEEP's semi-annual reports to Wilmington Trust. Semi-annual progress updates will be requested before the 1st of the month following the end of each half year (i.e., July 1, 2019, and January 1, 2020). Follow-up status reports may be requested after May of 2021. H.I. Stone will also contribute material necessary for a final report to Wilmington Trust upon completion of the project, which shall be no later than May 31, 2021.

Items to be provided may include, but will not be limited to:

- Environmental results;
- Work plan accomplishments;
- Challenges encountered during planning and implementation;
- Emissions reductions;
- Budgetary issues, including funds expended;
- Public relations activities;
- Technical and identification information for vehicles and engines; and
- Jobs preserved or created.

Task 3 Deliverables:

- Status Updates for Semi-annual Reports
- Any required material for Final Report

3. VW Mitigation Trust Grant Conditions

H.I. Stone commits to comply with the conditions listed in the Mitigation Trust Agreement, between DEEP and Wilmington Trust, which is attached as Appendix D.

4. Submission of Materials:

For the purposes of this Plan, all correspondence, summaries, reports, products, requests and invoices shall be submitted to:

Kathleen Knight (Assigned Project Manager)
Department of Energy and Environmental Protection
Bureau of Air Management
79 Elm Street
Hartford, CT 06106-5127
E-Mail: Kathleen.Knight@ct.gov

5. Extensions/Amendments:

Formal written amendment of the agreement is required for changes to the terms and conditions specifically stated in the original agreement and any prior amendments.

Time extensions may be granted, under certain circumstances, upon request. **Otherwise, the Project must be completed by May 31, 2021.**

6. Schedule of Tasks & Payments:

Payments by the Commissioner shall allow for use of funds to meet allowable financial obligations incurred in conjunction with this Project and shall be scheduled as follows, provided that the total sum of all payments shall not exceed 25% of the total project cost with a maximum cap of \$152,161.00.

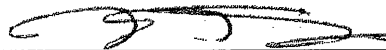
Task & Deliverables	Task Delivery Date	Estimated Budget		
		VW Funds	H.I. Stone Cost-Share	Project Total
1. Planning & Procurement <ul style="list-style-type: none"> Approved work plan with project timeline/schedule Estimates or proposals from potential vendors Summary of criteria used for selecting vendor Name and address of vendor selected 	December 2019 – January 2020	\$0	\$0	\$0
<ul style="list-style-type: none"> Copy of Purchase Order issued for new trucks Documentation of down payments or other up-front payments made for the project 	February - April 2020	\$0	\$0	\$0
2. Delivery of New Trucks, Scrappage of Replaced Trucks, Completion of Project <ul style="list-style-type: none"> Invoice from the vendor for delivered trucks and documentation of payment to vendor 	April – July 2020	\$0	\$608,644	\$608,644
<ul style="list-style-type: none"> Required photographic scrappage documentation for replaced trucks Completed copy of Certificate of Engine/Chassis Destruction Confirmation that the project is completed and that the trucks are operating satisfactorily for their intended use An invoice to DEEP for reimbursement under the grant 	May 31, 2021	\$152,161	-\$152,161	\$0
4. Provide Updates and Information for Semi-Annual and Other Reports <ul style="list-style-type: none"> Status Update for First Semi-Annual Report Status Update for Second Semi-Annual Report Status Update for Third Semi-Annual Report Status Update for Fourth Semi-Annual Report. Status Update for Fifth Semi-Annual Report. Required material for Final Report (upon completion but no later than 5/31/21) 	07/01/20 01/01/21 07/01/21 01/01/22 07/01/22 05/31/21	\$0	\$0	\$0
Total:		\$152,161	\$452,483	\$608,644

Payment for each task referenced above cannot exceed the budgeted amount for each task. Total Payment shall not exceed 25% of the total project cost with a maximum cap of \$152,161, which shall constitute full and complete compensation from the DEEP for the replacement of **2 Class 7 diesel trucks and 2 Class 8 diesel trucks**. The total sum of all payments shall not exceed total funds committed by DEEP.

Payment is contingent upon completion of the tasks outlined in this Plan and providing documentation of compliance with the Mitigation Trust Agreement, between DEEP and Wilmington Trust, which is attached as Appendix D.

Signature,
H.I. Stone & Son Inc

Authorized Representative



12-9-19

Typed Name

Chuck Stone Jr.

Date

Signature,
DEEP Assigned Project
Manager



12/09/2019

Typed Name

Kathleen L Knight

Date

Appendix C: Certificate of Engine/Chassis Destruction
(Attached under separate cover)

Appendix D: Environmental Mitigation Trust Agreement for State Beneficiaries

(Attached under separate cover)

Appendix A: Eligible Trucks to be Replaced

Vehicle Class	Vehicle Type	Engine Make	Engine Model	Engine Model Year	Vehicle Identification Number (VIN)	Engine Serial Number
Class 8	Local Freight	Cummings	L10	1995	1FDYK90L7SVA60368	34764836
Class 8	Local Freight	Cummings	L10	1995	1FDYK90L9SVA60369	34764620
Class 5	Local Freight	Duramax	LB7	2004	1GDE51C1164F508584	AVF03147034
Class 5	Local Freight	Duramax	LLY	2006	1GBE4C3285F504202	51504316

Appendix B: Replacement Vehicle Specifications

Note: Initial specifications for replacement vehicles below is preliminary based on the initial grant application and may change once actual vendor selection is completed.

Vehicle Class	Vehicle Type	Vehicle Make	Vehicle Model	Engine Model	Engine Model Year
Class 8	Tractor	Mack	PI64T	J08E-VB	2020
Class 8	Tractor	Mack	PI64T	J08E-VB	2020
Class 5	Dump Truck	Hino	338	MP8-505C	2020
Class 5	Dump Truck	Hino	338	MP8-505C	2020

ATTACHMENT B-3

ELIGIBLE MITIGATION ACTION MANAGEMENT PLAN FOR STATE LINE PROPANE, LLC

Eligible Mitigation Action Management Plan

Purpose: The purpose of this project is to replace the three trucks listed below with two (2) propane-powered 2020 Model Year (MY) Freightliner delivery trucks and one MY 2020 diesel-powered Freightliner fuel oil delivery truck. The trucks will be used to deliver fuel oil and propane for heating proposes to the residents of North Central Connecticut. Because of technology advances on the new trucks, the project will enhance air quality by reducing engine emissions and improve engine efficiency by decreasing fuel consumption. The reduction in emissions of the ozone precursor, nitrogen oxides, will be a benefit in a state that is in nonattainment with the National Ambient Air Quality Standards for Ozone.

Unit Number	Vehicle Class or Type of Equipment	Engine Make	Engine Model	Engine Model Year	Vehicle Identification Number (VIN)	Engine Serial Number	New Vehicle Fuel
LP01	Propane Fuel Delivery Truck	Cummins	6CTA 8.3L 45218170	1995	2XKMA77X9TM695469	SCE505D5DAAW	propane
SLO15	Fuel Oil Delivery Truck	International	DT466E	2000	IHTSDAAN9YH242654	905798	diesel
SLO12	Fuel Oil Delivery Truck	International	DT466 A210	1995	1HTSDAANGSH654036	1194290	propane

State Line Propane LLC shall be responsible for all phases of the project including project management services and materials as needed to complete this project. Completion of the project shall include documentation of the scrapping of the replaced trucks.

Project Title: *Replace Old and Purchase New Trucks*

Description: Following the approval of this Eligible Mitigation Action Management Plan (Plan), State Line Propane LLC shall begin providing the services outlined in the plan, and continue to provide services through the completion of the project, which will be no later than May 31, 2021.

1. Funding:

The Connecticut Department of Energy and Environmental Protection (DEEP) is granting \$96,264.00 in 2019 Volkswagen NOx Mitigation Trust funding to State Line Propane LLC, the grantee. State Line Propane LLC has agreed to contribute an estimated additional \$288,790.00 to the above referenced project through a combination of cash and in kind services, bringing the estimated total value of the project to \$385,054.00. Payment is contingent upon documentation of the completion of the tasks outlined in this Plan.

2. Work Tasks

The Plan is summarized according to the following three tasks:

Task 1: Planning and Procurement

Task 2: Delivery and Scrappage

Task 3: Provide Updates and Information for Semi-Annual and Other Reports as Required

Task 1: Planning and Procurement:

State Line Propane LLC shall conduct the project, provide oversight and track project progress. To ensure timely completion of the project, State Line Propane LLC shall include, in this Plan, a work plan with a schedule of expected target dates, milestones, responsible parties and completion dates to achieve specific tasks and accomplishments during the budget and project period. The schedule must be approved by State Line Propane LLC and DEEP.

State Line Propane LLC may use their own procurement processes to identify possible vendors for the purchase of the trucks. However, those procurement procedures must reflect all applicable Federal, State and local laws, rules and regulations. The requirements for accessing VW Trust funds require the submission of detailed cost estimates from selected or potential vendors for each proposed expenditure exceeding \$25,000 (Section 5.2 of the Environmental Mitigation Trust Agreement for State Beneficiaries (Mitigation Trust Agreement) between Connecticut, as a State Beneficiary, and Wilmington Trust (Item 3 below)).

Task 1 Deliverables:

- Approved work plan with project timeline/schedule
- Estimates or proposals from potential vendors
- Summary of criteria used for selecting Vendor and name of Vendor selected (lowest bid is not required)
- Copy of Purchase Order issued for new trucks
- Documentation of down payments or other up-front payments made for the project

Task 2: Delivery of New Trucks and Scrappage of Replaced Trucks, Completion of Project:

After selecting a Vendor and issuing a Purchase Order for the new trucks, State Line Propane LLC will track the progress of the manufacturing and outfitting of the new trucks for their intended use. When that process is complete, State Line Propane LLC shall take delivery of the vehicles.

State Line Propane LLC shall render the replaced vehicles and their engines inoperable, in accordance with Mitigation Trust Agreement requirements for scrappage under the VW grant. This will include cutting the frames and drilling the engines to render the vehicle inoperable. State Line Propane LLC shall provide documentation that the vehicles have been scrapped. State Line Propane LLC shall submit to DEEP an invoice for payment, along with confirmation that the project has been completed.

Task 2 Deliverables:

- Invoice from the Vendor for delivered truck and documentation of payment to Vendor
- Completed copy of Certificate of Engine/Chassis Destruction (See Appendix A)
- Required photographic scrappage documentation for each replaced truck:

- VIN plate
- Engine plate showing serial number
- Side profile of vehicle before destruction
- Cut chassis rails
- Engine block before drilling
- Engine block with 3-inch diameter hole
- Confirmation that the project is completed and that the trucks are operating satisfactorily for their intended use
- Completed copy of Final Request for Payment Form with attachments submitted to DEEP for reimbursement under the grant

Task 3: Provide Updates and Information for Semi-Annual and Other Reports as Required.

State Line Propane LLC shall provide DEEP with status updates to be included in DEEP's semi-annual reports to Wilmington Trust. Semi-annual progress updates will be requested before the 1st of the month following the end of each half year (i.e., July 1, 2020, and January 1, 2021). Follow-up status reports may be requested after April of 2021. State Line Propane LLC will also contribute material necessary for a final report upon completion of the project, which shall be no later than May 31, 2021. Items to be provided may include, but will not be limited to:

- Environmental results;
- Work plan accomplishments;
- Challenges encountered during planning and implementation;
- Emissions reductions;
- Budgetary issues, including funds expended;
- Public relations activities;
- Technical and identification information for vehicles and engines; and
- Jobs preserved or created.

Task 3 Deliverables:

- *Status Updates for Semi-annual Reports*
- *Any required material for Final Report*

3. VW Mitigation Trust Grant Conditions

State Line Propane LLC commits to comply with the conditions listed in the Mitigation Trust Agreement between Connecticut, as a State Beneficiary, and Wilmington Trust, which is attached as Appendix B.

4. Submission of Materials:

For the purposes of this Plan, all correspondence, summaries, reports, products, requests and invoices shall be submitted to:

Jennifer Arienti (Assigned Project Manager)
 Department of Energy and Environmental Protection
 Bureau of Air Management
 79 Elm Street
 Hartford, CT 06106-5127
 E-Mail: Jennifer.Arienti@ct.gov

5. Extensions/Amendments:

Formal written amendment of the agreement is required for changes to the terms and conditions specifically stated in the original agreement and any prior amendments.

Time extensions may be granted, under certain circumstances, upon request. **Otherwise, the Project must be completed by May 31, 2021.**

6. Schedule of Tasks & Payments:

Payments by Wilmington Trust shall allow for use of funds to meet allowable financial obligations incurred in conjunction with this Project and shall be scheduled as follows, provided that the total sum of all grant payments shall not exceed \$96,264.00.

Schedule of Tasks & Payments

Task & Deliverables	Task Delivery Date	Estimated Budget		
		Wilmington Trust	STATE LINE PROPANE LLC Cost-Share	Project Total
1. Planning & Procurement: <ul style="list-style-type: none"> Approved work plan with project timeline/schedule Summary of criteria used for selecting Vendor and name of Vendor selected 	December 2019- January 2020	\$0	\$0	\$0
<ul style="list-style-type: none"> Copy of Purchase Order issued for new trucks Documentation of down payments or other up-front payments made for the project 	February-March 2020	\$0	\$0	\$0
2. Delivery of New Trucks, Scrappage of Replaced Trucks, Completion of Project <ul style="list-style-type: none"> Invoice from the Vendor for delivered trucks and documentation of payment to Vendor 	May 30, 2020	\$0	\$385,054.00	\$385,054.00
<ul style="list-style-type: none"> Required photographic scrappage documentation for replaced trucks Completed copy of Certificate of Engine/Chassis Destruction Confirmation that the project is completed and that the trucks are operating satisfactorily for their intended use Completed copy of Final Request for Payment Form with attachments submitted to DEEP for reimbursement under the grant 	May 31, 2021	\$96,264.00	-\$96,264.00	\$0

4. Provide Updates and Information for Semi-Annual and Other Reports				
• Status Update for First Semi-Annual Report	07/01/20			
• Status Update for Second Semi-Annual Report	01/01/21			
• Status Update for Third Semi-Annual Report	07/01/21	\$0	\$0	\$0
• Status Update for Fourth Semi-Annual Report.	01/01/22			
• Status Update for Fifth Semi-Annual Report.	07/01/22			
• Status Update for Sixth Semi-Annual Report.	01/01/23			
• Required material for Final Report (upon completion but no later than 5/31/21)	05/31/21			
Total:		\$96,264.00	\$288,790.00	\$385,054.00

Payment for each task referenced above cannot exceed the budgeted amount for each task. Total Payment shall not exceed a maximum of \$96,264.00, which shall constitute full and complete compensation from the Wilmington Trust for the replacement of three fuel oil and propane delivery trucks. The total sum of all payments shall not exceed total funds committed by DEEP.

Payment is contingent upon completion of the tasks outlined in this Plan and providing documentation of compliance with the Mitigation Trust Agreement, between DEEP and Wilmington Trust, which is attached as Appendix B.

Signature, State Line
Propane LLC Authorized
Representative

Brian V. Guarco

1-22-20

Typed Name Brian Guarco

Date

Signature, DEEP Assigned
Project Manager

Jennifer Arienti

1-27-2020

Typed Name Jennifer Arienti

Date

Appendix C: Certificate of Engine/Chassis Destruction

(Attached under separate cover)

Appendix D: Environmental Mitigation Trust Agreement for State Beneficiaries

(Attached under separate cover)

ATTACHMENT C

**DETAILED PLAN FOR REPORTING ON ELIGIBLE MITIGATION ACTION
IMPLEMENTATION**

ATTACHMENT C

DETAILED PLAN FOR REPORTING ON ELIGIBLE MITIGATION ACTION IMPLEMENTATION

The Connecticut Department of Energy and Environmental Protection (DEEP) will provide detailed reporting on the Diesel Emissions Mitigation Trust project in two ways:

1. Timely updates to DEEP's Volkswagen (VW) Settlement Information Webpage, and
2. Connecticut's semiannual reporting obligation to Wilmington Trust (the "Trustee")

DEEP maintains a webpage that has been designed to support public access to information relative to the VW Settlement and DEEP's administration of mitigation funds so as to implement the program in an openly and transparent manner. DEEP's VW Settlement Information webpage and all supporting information and documentation can be found at: <https://www.ct.gov/deep/vw>. Timely updates to the webpage as well as direct outreach via email to those who have requested notification will inform the general public on project solicitations, and project status including when the projects identified herein have been completed.

Subparagraph 5.3 of the Environmental Mitigation Trust Agreement for State Beneficiaries details Connecticut's Reporting Obligations" "For each Eligible Mitigation Action, no later than six months after receiving its first disbursement of Trust Assets, and thereafter no later than January 30 (for the preceding six-month period of July 1 to December 31) and July 30 (for the preceding six-month period of January 1 to June 30) of each year, each Beneficiary shall submit to the Trustee a semiannual report describing the progress implementing each Eligible Mitigation Action during the six-month period leading up to the reporting date (including a summary of all costs expended on the Eligible Mitigation Action through the reporting date). Such reports shall include a complete description of the status (including actual or projected termination date), development, implementation, and any modification of each approved Eligible Mitigation Action. Beneficiaries may group multiple Eligible Mitigation Actions and multiple sub-beneficiaries into a single report. These reports shall be signed by an official with the authority to submit the report for the Beneficiary and must contain an attestation that the information is true and correct and that the submission is made under penalty of perjury. To the extent a Beneficiary avails itself of the DERA Option described in Appendix D-2, that Beneficiary may submit its DERA Quarterly Programmatic Reports in satisfaction of its obligations under this Paragraph as to those Eligible Mitigation Actions funded through the DERA Option. The Trustee shall post each semiannual report on the State Trust's public-facing website upon receipt."

DEEP shall, in the semiannual report following the Trustee's initial disbursement of funds as directed by DEEP, describe the progress implementing this Eligible Mitigation Action that will include a summary of all costs expended on the Eligible Mitigation action through the reporting date. The report will also include a complete description of the status, development, implementation (including project schedule and milestone updates), and any modification to the projects under this Eligible Mitigation Action.

ATTACHMENT D

**DETAILED COST ESTIMATES FROM SELECTED OR POTENTIAL VENDORS FOR EACH
PROPOSED EXPENDITURE EXCEEDING \$25,000**

ATTACHMENT D

**DETAILED COST ESTIMATES FROM SELECTED OR POTENTIAL VENDORS FOR EACH
PROPOSED EXPENDITURE EXCEEDING \$25,000**

Eversource Class 7 Diesel Truck Replacement (Attachment D-1)

Vehicle Class	Vehicle Type	Engine Make	Engine Model	Model year (MY)	Fuel	Cost
Class 7	Local Freight Truck	Cummins	B6.7	2020	Diesel	\$260,866.00
Class 7	Local Freight Truck	Cummins	B6.7	2020	Diesel	\$260,866.00
Class 7	Local Freight Truck	Cummins	B6.7	2020	Diesel	\$260,866.00
Class 7	Local Freight Truck	Cummins	B6.7	2020	Diesel	\$260,866.00
Class 7	Local Freight Truck	Cummins	B6.7	2020	Diesel	\$260,866.00
Total						\$1,304,330.00

H.I. Stone & Son Class 5 Diesel Truck Replacement (Attachment D-2)

Vehicle Class	Vehicle Type	Engine Make	Engine Model	Model year (MY)	Fuel	Cost
Class 5	Local Freight Truck	Hino	J08E-VB	2020	Diesel	\$159,717.49
Class 5	Local Freight Truck	Hino	J08E-VB	2020	Diesel	\$159,717.49
Total						\$319,434.98

State Line Propane, LLC Class 7 Diesel and Propane Truck Replacement (Attachment D-3)

Vehicle Class	Vehicle Type	Engine Make	Engine Model	Model year (MY)	Fuel	Cost
Class 7	Freightliner Propane Delivery Truck	PSI	PSI 8.8L	2020	Propane	\$ 165,508.00
Class 7	Freightliner Fuel Oil Delivery Truck	Detroit	DD8 7.7L	2020	Diesel	\$ 108,408.00
Class 7	Freightliner Fuel Oil Delivery Truck	PSI	PSI 8.8L	2020	Propane	\$ 111,138.00
Total						385,054.00

See attached vendor cost estimates for Eversource, H.I. Stone & Son, and State Line Propane, LLC trucks.

ATTACHMENT D-1

VENDOR ESTIMATE FOR EVERSOURCE

Bureau of Air Management
Engineering Division

SEP 17 2019

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Altec JEMS® (Jobsite Energy Management System) is an integrated plug-in hybrid system that uses stored electrical energy to power the aerial device, hydraulic tools, exportable power, and engine-off cab comfort. JEMS systems comply with Edison Electrical Institute's Transportation Electrification initiative and other incentives.

BENEFITS

- Eliminates Job Site Idle Time
- Reduces Fuel Consumption
- Lessens Noise Pollution
- Decreases Carbon Footprint
- Lowers Maintenance Costs
- Safer, Healthier Work Environment
- Complies with Anti-Idle Regulations

JEMS® 
JOBSITE ENERGY MANAGEMENT SYSTEM



ALTEC JEMS 2 SERIES - TELESCOPIC ARTICULATING AERIAL DEVICE

- JEMS 2A for Work Trucks Or Aerials Without ePTO
- Lightweight Lithium Ion Energy Storage
- Optional Engine-Off Integrated Cab Heating System
- Integral Safety Interlocks
- 110 VAC 2000 W Pure Sine Export Power

*Available on AT200 and AT235/7 Models



ALTEC JEMS 4 SERIES - TELESCOPIC ARTICULATING AERIAL DEVICE

- JEMS 4A for Work Trucks Or Aerials Without ePTO
- JEMS 4E4 Includes a 4kW ePTO & Hydraulic Pump*
- Energy Storage, ~4 kWh Capacity, Lightweight Lithium Ion
- Engine-Off Integrated Cab Comfort System
- Integral Safety Interlocks
- Optional 110 VAC Pure Sine Wave Export Power Up To 3000 W

*Available on AT3xG and AT40G Models



ALTEC JEMS 12E8 - MATERIAL HANDLING AERIAL DEVICE

- Energy Storage, ~12 kWh Capacity. Lightweight Lithium Ion
- Engine-off Integrated Cab Comfort System
- Includes ePTO & Hydraulic Pump*
- Integral Safety Interlocks
- 110 VAC 2800 W Pure Sine Export Power

*Available on TA50/55/60 Models



ALTEC JEMS 1820/18E20* - OVERCENTER MATERIAL HANDLING AERIAL DEVICE

- Energy Storage, 18.3 kWh Capacity, Light weight Lithium Ion
- Includes ePTO & Hydraulic Pump*
- Integral Safety Interlocks
- 110 VAC 4000 W Pure Sine Export Power
- JEMS 18E20 Includes Automatic Idle Mitigation & Engine-Off Integrated Cab Comfort System

*Available on AM, AME and TA Models

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| 800.958.2555 | SALES@ALTEC.COM | ALTEC.COM



August 23, 2019
Our 90th Year

Ship To:
Connecticut Light and power
107 Selden Street
Berlin, CT 06037

Bill To:
Connecticut Light and power
107 Selden Street
Berlin, CT 06037

Altec Quotation Number: 486581 - 3
Account Manager: Adam M Engel
Technical Sales Rep: Lucinda T Oliver

<u>Item</u>	<u>Description</u>	<u>Qty</u>
	<u>Unit</u>	

- | | | |
|----|---|---|
| 1. | Altec Model AN55E-OC Articulating Overcenter Aerial Device with a fiberglass upper boom and fiberglass insulator in the lower boom and a proportional joystick upper control and toggle switches. Built in accordance to ALTEC's standard specifications and to include the following features: | 1 |
| A. | Ground to Bottom of Platform Height: 56.5 ft at 0 ft from centerline of rotation (17.2 m at 0 m) | |
| B. | Working Height: 61.5 ft (18.7 m) | |
| C. | Maximum reach to edge of platform: 43.1 ft at 28.6 ft platform height (13.1 m at 8.7 m) | |
| D. | Rotation: Continuous | |
| E. | Upper Boom Articulation: 0 to 196 degrees. Insulator provides a minimum of 156 in (396 mm) of isolation. | |
| F. | Lower Boom Articulation: 0 to 120 degrees. Insulator provides a minimum of 24 in (610 mm) of isolation. | |
| G. | Lower boom stow protection to help prevent excessive down pressure by boom structures when stowing. | |
| H. | Upper Controls: The upper controls system includes a proportional joystick upper control and toggle switches. | |
| I. | The Altec ISO-Grip System (U.S. Patent No. 7,416,053) includes the following boom tip components that can provide an additional layer of secondary electrical contact protection. This is not a primary protection system. Control Handle is a single handle controller incorporating high electrical resistance components that is dielectrically tested to 40 kV AC with no more than 400 microampers of leakage. The control handle is green in color to differentiate it from other non-tested controllers. The handle also includes an interlock guard that reduces the potential for inadvertent boom operation. Auxiliary control covers are non-tested blue silicon covers. The control console in non-tested non-metallic control console plate. The boom tip covers are non-tested non metallic and are not dielectrically tested, but they may provide some protection against electrical hazards. | |
| J. | Lower Controls: A lower control station is located on the curb side of the turntable with the control valves under a protective cover. A selector valve at the lower control station is provided to override the upper controls. | |
| K. | Control purging system contains a continuous automatic purge feature, which provides for oil flow through the control system, to eliminate trapped air. This | |

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UTILITY EQUIPMENT AND BODIES SINCE 1929



<u>Item</u>	<u>Description</u>	<u>Qty</u>
6.	Electric Over Hydraulic Outrigger Controls	1
7.	315 Engine start/stop with Secondary Stowage System, 12 VDC electric powered. Includes auxiliary pump and electric motor, powered by the chassis battery. Control is captive air operated from the platform and toggle switch operated from the lower controls. This option allows the operator to completely stow the booms and platform in a situation wherein the engine, PTO or pump fails.	1
8.	319 - Category C 46 kV and below	1
9.	470 - Outrigger X-Frame with fold-up shoe - 174 inch max spread	1
10.	241 - Outrigger A-Frame with Flat-shoe - provides 149 inch (3785 mm) maximum spread outside to outside of shoe.	1
11.	313 Lower boom lifting eye provides from 800 pounds (362.0 kg) capacity at 0 degrees to 2,000 pounds capacity at lower boom angles greater than 60 degrees	1
12.	Powder coat unit Altec White.	1
13.	Custom Inner Outrigger Leg Color Powder Coat Inner outrigger legs (inner legs only) and Outrigger feet to be painted red Akzo FLNA 3294	1
14.	Additional Unit Option NOTE: Use lightest spring package available on AN iso grip (for the control handle functions and trigger)	1
15.	Additional Unit Option Stop/start/dc pump at platform, lower controls AND tailshelf	1
16.	Additional Unit Option Parker fire sleeve FS1 to all exposed bundles at the boom tip. The sleeve to be installed at X4 level and needs to go under the canvas sock.	1
17.	Additional Unit Option CONTROL HANDLE TO BE TILLER STYLE NOT TWIST rotated 180 degrees from standard	1
18.	Additional Unit Option 5 Provide a manual 2 speed throttle system in lieu of the standard. Air plunger at platform, toggle switch at the lower controls, and Curbside and Streetside outrigger controls Provide a manual 2 speed throttle system in lieu of the standard. Air plunger at platform, toggle switch at the lower controls, and Curbside and Streetside outrigger controls.	1
19.	Additional Unit Option One set of tools at platform ILO two	1

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UTILITY EQUIPMENT AND BODIES SINCE 1929

<u>Item</u>	<u>Description</u>	<u>Qty</u>
35.	AA/AN 50/55/50E/55E/60/60E AN46-OC/50-OC/55-OC/46E-OC/50E-OC/55E-OC Subbase	1
36.	HVI-22 Hydraulic Oil (Standard).	38
37.	Hydraulic Oil Heater, 12V, Fixed Temperature Range Wire oil heater temperature switch to be "Ignition Hot." No switch needed on the AMPS Panel	1
38.	Standard Pump For PTO	1
39.	Hot shift PTO for automatic transmission	1
40.	Muncie PTO (Altec Standard)	1
41.	Standard Altec PTO/Machine Functionality: PTO won't engage until parking brake is set.-Once parking (holding) brake is set, PTO and machine functions are enabled.-If parking (holding) brake is disengaged, both PTO and machine functions are disabled.	1
42.	PTO Auto Neutral: Forces transmission to neutral when PTO is engaged (Automatic Transmissions Only)-If chassis is in gear, and PTO switch is activated, transmission will be forced to neutral once transmission recognizes a near stationary state (i.e. below 4 mph). If chassis is already in neutral with PTO engaged and operator tries to shift into gear, transmission will remain in neutral. ANSI 92.9	1
43.	Braden PCD24B Hydraulic Capstan, 20 GPM, 4000 LBS. Includes emergency stop switch mounted near capstan, with indicator light in cab. mounted curbside at rear Capstan to be limited to a max pull of 1750 lbs	1
44.	Capstan Mounting Bracket Without Protective Cover	1
45.	Capstan Control, Foot Pedal (Bi-Directional), Electrohydraulic, 25 FT Cable w/Trailer Style Connector (Meterable) plug to be at rear curbside light channel	1
46.	Additional Unit/Hydraulic Accessory Install Electrohydraulic switch box back covers at each outrigger control station Ref: 990188517	1
47.	Additional Unit/Hydraulic Accessory Provide platform tool circuit mounted oil warming kit (ship loose) Ref p#970430790	1
<u>Body</u>		
48.	Altec Body	1

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<u>Item</u>	<u>Description</u>	<u>Qty</u>
61.	5.5 Inch Drop-In Wood Cargo Retaining Board At Top Of Side Access Step	1
62.	Adhesive Strip Lighting (LED) Around Top And Sides Of Compartment Door Facings	9
63.	Stainless Steel Rotary Paddle Latches With Keyed Locks	9
64.	All Locks Keyed Alike Including Accessories (Preferred Option)	1
65.	Standard Master Body Locking System (Standard Placement Is At Rear. Sidepacks With A Throughshelf/Hotstick Door At Rear, Standard Placement Is At The Front)	9
66.	Gas Shock (Gas Spring) Rigid Door Holders On All Vertical Doors	1
67.	Chains On All Horizontal Doors NOTE: Do not install the chains, ship chains loose to customer	1
68.	Custom Body Door Holders Install rubber bumpers under horizontals as needed	1
69.	Custom Body Chock Holders Double capacity chock holders, one per side in rear of wheel well panel To have cable retainers	1
70.	Hotstick Shelf Extending From Rear Of First Vertical To Rear Of Body On Streetside	1
71.	Two Hotstick Brackets On Streetside	1
72.	Large Side Hinged Hotstick Door For Multiple Shelves On Streetside (Hinged Toward Cargo Area), Stainless Steel Slam Paddle Latch With Keyed Lock	1
73.	1st Vertical (SS) - Adjustable Shelf With Removable Dividers On 4" Centers Located above inverter enclosure JEMS Inverter to be located in this department	3
74.	1st Vertical (SS) - Louvered Panel On Rear Wall To Ventilate Compartment	1
75.	2nd Vertical (SS) - Locking Swivel Hooks On An Adjustable Rail - Left Wall	1
76.	2nd Vertical (SS) - Locking Swivel Hooks On An Adjustable Rail - Rear Wall	4
77.	2nd Vertical (SS) - Locking Swivel Hooks On An Adjustable Rail - Right Wall	1
78.	3rd Vertical (SS) - Locking Swivel Hooks On An Adjustable Rail - Left Wall	1
79.	3rd Vertical (SS) - Locking Swivel Hooks On An Adjustable Rail - Rear Wall	4
80.	3rd Vertical (SS) - Locking Swivel Hooks On An Adjustable Rail - Right Wall	1

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<u>Item</u>	<u>Description</u>	<u>Qty</u>
	ref PN 990199535 but Add cutout on CS side of ladder rack to allow for ladder levelers. Ladder leveler cutout to be large enough to hold levelers on bottom or top of ladder	
	Note: Whelen light to be mounted on plate located on rear of ladder rack towards the cargo area	
	Utilize straps for retaining method on ladder rack	
98.	Aluminum Top Opening Storage Box, One (1) Gripstrut Lid, Gas Props, Hasp Lock, Handle Parallel To Ground And Centered (2 Handles for Boxes Greater Than 108") Aluminum Chainsaw box; to be vented and to have gas shocks and plywood lining 36" x 18" x 18. Lid to have 2 flip up handles	1
	To be mounted on top of body on the CS in front of the CS access way (opening to load area)	
99.	Aluminum Top Opening Storage Box ALUMINUM Apx 84" long 18" wide 18" tall to the CS rear compartment top. Installed on b-line. To have Dual gripstrut lids - with 2 flip up handles per lid, no divider; gas shocks; and plywood lining. To be vented	1
	NOTE: Fill gap between box lids to avoid trip hazard	
100.	Aluminum Top Opening Storage Box ALUMINUM Blanket Box. (Ref Part # 990224241 with 970243360 hook) B-line on both front and rear top of box	1
	Mounted behind cab in cargo area (behind reservoir)	
101.	Aluminum Top Opening Storage Box Aluminum top opening box with hasp, gas shocks, and bullet hinges 36"Lx20"Wx18"H. Installed on the front SS of the ladder box	1
102.	Sliding Hooks For Material Rails Provide two hooks for the 17" rail and 3 hooks for the 27" rail	5
103.	Additional Body Option Supply 4 additional shelves and 16 additional dividers per truck (shipped loose)	1
104.	Additional Body Option Provide (2) boxes; mounted on B-line on front of body - one curbside and one streetside.	2
	Boxes to be 14"W x 16"D x 20"H. Boxes to be side opening with paddle latch	

Body and Chassis Accessories

105.	No Cabguard Required.	1
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<u>Item</u>	<u>Description</u>	<u>Qty</u>
121.	Wheel Chocks, Rubber, 9.75" L x 7.75" W x 5.00" H, with 4" L Metal Hairpin Style Handle (Pair)	2
122.	Dock Bumpers (Pair), Fixed Mounting (Rectangular Bumper), Installed At Rear Frame Rails So They Are The Furthest Point Back	1
123.	Custom Grab Handle Installed at rear, for 3 points of contact for Bustin step. The one on the outside to be L shaped (to connect from tailshelf to back of body) The one to the right of the Bustin Step to be small grab handle	2
124.	Slope Indicator Assembly For Machine With Outriggers	1
125.	Fold Over, Post Style Cone Holder For Installation On A Front Bumper (Holds up to four 15"x15" large cones) Installed one on each side on front bumper Install so that Holders will swivel toward streetside (driver's side) when down Reference: 990511418 for streetside and 990511419 for curbside Note: Bottom of the plate of the cone holder to line up as closely as possible with bottom of the chassis bumper. Ensure cones will not block front strobes	2
126.	Water Cask 3 Gallon (Plastic)	1
127.	Custom PVC Canister Kit PVC Canister Kit, 6" DIA Pipe, 96" L, With Aluminum Cap, Door And Mounting U-Bolts Mounted to the boomstow with drop down doors on each end (mount as low as possible)	2
128.	Custom Fire Extinguisher ANSUL AA05VB Located on front face of SS of body	1
129.	Safety Harness And 4.5' Lanyard (Fits Medium To Xlarge) Includes Pouch and Placards	1
130.	Triangular Reflector Kit, Installed	1
131.	First Aid Kit, 2 Person installed on second vertical streetside door Include decal on door	1
132.	Vise, Utility, 6.5 IN Jaw with 5.5 IN Opening, Pipe Jaws, with Replaceable Jaws and Swivel base	1
133.	Vise Mounting Bracket, 2 Square Tube Horizontal Receiver Type with 9 x 9 Mounting	1

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<u>Item</u>	<u>Description</u>	<u>Qty</u>
143.	Additional Body/Chassis Accessory Install extendable snatch block to front of CS front OR	1
144.	Additional Body/Chassis Accessory Install (2) D rings on rear outriggers legs; 20" above deck. Zinc coated Buyers B40 D-ring 990194826	1

Electrical Accessories

145.	Compartment Lights Wired To Dash Mounted Master Switch	1
146.	Lights and reflectors in accordance with FMVSS #108 lighting package. (Complete LED, including LED reverse lights) Rear lighting to be set up: brake/reverse/strobe (from outside to inside)	1
147.	Altec Standard Amber LED Strobe Light with Brush Guard one each side; mounted on boom rest Strobes on outside; worklight on inside	2
148.	Custom Strobe Light Surface mounted (no grommet) oval amber strobes; ECCO #3911A mounted at rear; mounted vertically; as high as possible. Reference p#970681952 Wire with other strobes	2
149.	4-Corner Strobes, Amber, LED, Two (2) Surface Mounted Lights In Grille, Two (2) Round Lights At Rear	1
150.	Cargo Light LED 4 IN DIA Grommet Mounted (Tecniq #T41-WC0T-1) (5) for Cargo lighting - one in cargo access step wall; 2 on curbside cargo wall; 2 on streetside cargo wall (2) for ground lighting - one in each fender panel; forward of wheel opening Reverse lights to be used as ground lights as well, wired to neutral so they shut off automatically when driving	7
151.	Custom Remote Spot/Flood (2) Go Light LED Model #30004 (P#970489831); mounted just in front of the A-pillar on the side of the hood on a bent plate bracket, one each side (bolt on; ref info in t/c. Ensure passenger side light does not reflect off of the c/s fender mirror To be remote control model ILO hard wired. Provide remote for curbside and streetside Provide velcro for each controller for customer mounting (shipped loose) To be wired battery hot	2
152.	Dual Tone Back-Up With Outrigger Motion Alarm	1
153.	Altec Standard Multi-Point Grounding System	5

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<u>Item</u>	<u>Description</u>	<u>Qty</u>
	To be turned on by a switch in the AMPs panel (3 position switch that will turn on the red lights or the white lights; wired battery hot)	
168.	Additional Electrical Accessory Minimize Butt splices where possible. Use reliable harnesses where possible	1
169.	Additional Electrical Accessory All lights, except strobes and go lights, to operate only when park brake is set or when truck is in reverse. All lights, except strobes and go lights, to be inoperable when truck is in drive	1
170.	Additional Electrical Accessory Supply (1) Vulcan 180 LED Firefighting Lantern (ref info in t/c) Mounted in cab, wired battery hot	1
171.	Additional Electrical Accessory Install (4) Hella # H71030401 LED lights (ref part #970570001); one at each outrigger location Mount as close to outriggers as possible	4
172.	Additional Electrical Accessory Whelen LED model MPBW #01-0687113-11. One postmounted on the CS front of body, one mounted on plate located at rear of ladder rack towards the cargo area. wired with cargo lights Lights need to swivel so they can be easily adjusted to point toward the work area. Place a nylon washer between light and mounting surface, Ref PN 990068702. Replace carriage bolt with standard bolt	2
173.	Additional Electrical Accessory Hella long range work lights (P# 970570001) One mounted curbside of boom rest (Strobes on outside; worklight on inside). One mounted top of rear outrigger Lights to swivel	2
174.	Additional Electrical Accessory Provide a manual 2 speed throttle system in lieu of the standard. Air plunger at platform, toggle switch at the lower controls, and Curbside and Streetside outrigger controls. (see also unit section)	1

Finishing Details

175.	Powder Coat Unit Altec White	1
176.	Custom Unit Color Powdercoating Altec white (standard)	1

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<u>Item</u>	<u>Description</u>	<u>Qty</u>
192.	Additional Finishing Detail Delivery of completed unit Contact TSSR for delivery location	1
193.	Additional Finishing Detail No Altec Logos on boom or platform	1
194.	Additional Finishing Detail Martex top of Bucket Step	1
195.	Additional Finishing Detail Ensure chains are removed from horizontals, Chains are to be shipped loose to customer	1
196.	Additional Finishing Detail Altec MUST fill out "Eversource Vendor Vehicle Data Sheet" for EVERY vehicle. Blank form is in t/c under reference photos file. Upload the completed file (as a separate file) and put with the other f/a documents in team center.	1
197.	AN55E-OC FA Installation	1
198.	JEMS 18E20 Hybrid System Installation	1

Hybrid

199. JEMS 18E20 - JOBSITE ENERGY MANAGEMENT HYBRID SYSTEM: a smart, plug-in hybrid package that manages energy use at the jobsite. Energy is stored in a battery pack that is used to power the aerial device and chassis mounted equipment through a typical work day without running the chassis engine. Use of the JEMS18E20 minimizes jobsite fuel consumption, tailpipe emissions, jobsite noise pollution, and maintenance costs through fewer engine idle hours. The JEMS 18E20 package includes the following:
- A. Lithium Ion Batteries: Provide a nominal terminal voltage of 48 volts to power the hybrid system.
 - B. Motor/Generator: Powers the hydraulic pump and charges the JEMS batteries when the engine is running.
 - C. Hydraulic Pump: Provides full system pressure as required for rated performance of the aerial device.
 - D. On-Demand Operation: The Electric motor is automatically powered when a demand is created either through activation of the upper or lower control interlock or by engaging the hydraulic tool circuit.
 - E. Energy Management System: Monitors and manages the JEMS system. When the state of charge drops below 25%, the chassis engine automatically starts and the PTO driven pump powers the unit. The operator's work goes uninterrupted. A state of charge gauge displays the status of the battery pack.
 - F. Recharge Systems: The batteries are recharged by the following methods: - PLUG IN: unit is recharged in less than 8 hours when plugged into a standard 110VAC outlet. 50ft UL/CUL rated 20A extension cord included. - DRIVE CYCLE RECHARGE: The chassis motor/generator provides up to 50 amps of charge to the batteries during the drive cycle (if equipped with the optional dual chassis alternator). - AUTOMATIC RECHARGE DURING OPERATION: If the batteries require a recharge during electric drive mode operation, the engine is automatically started and the unit will be powered by the PTO driven hydraulic pump.

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<u>Item</u>	<u>Description</u>	<u>Qty</u>
210.	International MV607	1
211.	4x2	1
212.	Other Clear Cab To Axle Length 120"	1
213.	Regular Cab	1
214.	Chassis Cab	1
215.	Chassis Wheelbase Length - 197	1
216.	Cummins B6.7	1
217.	250 HP Engine Rating	1
218.	Allison 3500 RDS Automatic Transmission (Left and Right Side PTO Openings Only)	1
219.	GVWR 37,000 LBS	1
220.	14,000 LBS Front GAWR	1
221.	Spring Suspension	1
222.	23,000 LBS Rear GAWR	1
223.	12R22.5 Front Tire	1
224.	12R22.5 Rear Tire	1
225.	Air Brakes	1
226.	Park Brake In Rear Wheels	1
227.	Other Exhaust 7BKS EXHAUST SYSTEM Single Horizontal Aftertreatment Device, Frame Mounted Right Side Under Cab; for Single Vertical Tail Pipe, Frame Mounted Right Side. Back of Cab	1
	Note: has a single can exhaust configuration.	
228.	16XJV - International Dash Cutout for Switch Panel	1
229.	International - Disallow Regen while in PTO mode (13WEV)	1

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<u>Item</u>	<u>Description</u>	<u>Qty</u>
247.	Standard Altec Warranty: One (1) year parts warranty, one (1) year labor warranty, ninety (90) days warranty for travel charges, limited lifetime structural warranty	1
248.	Federal Excise Tax Item: If provided, Quote subtotal is an Estimate only. Final determined at invoicing.	1

Miscellaneous

249.	Ext Warranty Travel, Labor, Mat., Expense (Day 91-1095) Large Model JEMS Hybrid (AA, AM)	1
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PRICING


Unit/Body/Install	Chassis - Reg cab	JEMS With Intellemetrics	Add Transport (Berlin, CT)	Add FET	Add oil warming kit (now standard)	Revisions - Add spare platform sent with each unit (now standard)	Add (2) Personnell Boxes (now standard)	Total Before Additional Options/Regular Cab chassis
\$124,536.00	\$70,632.00	\$65,698.00	\$1,144.00	\$8,553.84	\$111.00	\$485.00	\$1,800.00	\$272,959.84

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ATTACHMENT D-2

VENDOR ESTIMATE FOR H.I. STONE & SON

\$166,859.64 EA
 TOTAL \$333,799.28 For 2 

Customer: H I Stone, Inc.
 Dealership: Gabrielli Truck Sales of Hartford
 Prepared By: Jim Rizzo

Quote Name: 338 DR
 Quote Id: 109140



Quotation Details

Bureau of Air Management
 Engineering Division
 SEP 19 2019

Quote Information
 Quote Name 338 DR
 Expiration Date 10/21/2019
 Model 2020 Hino 338
 Transmission Auto - Allison 3000RDS w/Syn Fluids (6-speed), w/ FuelSense
 Wheelbase 152.0

Standard Options		
Qty	Order Code	Description
1	ENGINE	Engine - HINO J08E-VB Turbo charged and intercooled with glow plugs, 6 cylinder, In-line water-cooled; Max Output 260hp @2500rpm; Max Torque 660lb.ft. @ 1500rpm; 7.68L displacement, EPA10 Emissions Certified.
1	INSIGHTSTD	INSIGHT hardware. 1 year telematics. 5 years remote diagnostics.
1	BLHZASTD	Engine block heater (1000W / 120ACV)
1	OIL	Oil Capacity - 16.15 quarts
1	EXHBRAKE	Exhaust Brake - Driver controlled w/steering column Stalk Switch
1	FUELFILT	Fuel Filter - Davco 243 Diesel Pro Heated fuel/water separator. (Diesel Pro 243)
1	ALT	Alternator - Delco 12 volt 130 amp Brush Type
1	STARTER	Starter - Denso 12 volt 4.8 kW / 6.4 HP rating
1	RADIO	Radio - AM/FM with single CD, bluetooth, two speakers.
1	AIRCOND	Air Conditioning - Denso Cab AC System designed specifically for Hino - Refrigerant 134A
1	DISPLAY	Meter Cluster - Information display: Instant and trip fuel consumption, Diesel Particulate Reduction System performance/status, maintenance intervals, engine and vehicle diagnostics.
1	GAUGES	Gauges - Speedometer mph (km/h), odometer, fuel/DEF gauges, coolant temp gauge, engine tachometer, air pressure gauge.
1	FTGRILL	Grille - Chrome plated
1	HEAT/DEF	Heater/Defroster - 18,357 BTU/h
1	LAMPS	Lighting - Marker lamps, stop/tail lights, back-up lights, side-flasher lights.
1	MISC	Cab Features - Standard: Cruise control, power steering with tilt and telescopic steering column, cup holders, cigarette lighter, coat hook, bag hook, two overhead compartments, two door pockets, sun visors, side mirrors (1 flat, 1 convex) each side.
1	SEATS	Seats - Vinyl driver seat adjustable reclining, with AIR suspension and two person passenger bench seat. Three point seatbelt for driver and outer passenger, two point seatbelt for center position.
1	INDICATORS	Warning Indicators - Oil pressure, brake pressure, coolant level, battery charge, high beam, turn signal, parking brake, engine control

Customer: H I Stone, Inc.
 Dealership: Gabrielli Truck Sales of
 Hartford
 Prepared By: Jim Rizzo

Quote Name: 338 DR
 Quote Id: 109140



Standard Options

Qty	Order Code	Description
		system and ABS.
1	FREIGHT	Equalized Freight Charge
1	COOLSYS	Cooling Capacity - 7.075 gallon cooling system capacity
1	WARRANTY_05	Warranty - Basic Vehicle-24 months unlimited mileage; Engine-36 months unlimited mileage; Engine-60 month Extended Coverage, 250,000 miles (includes injectors, fuel supply pump and turbo); Emission-60 months 100,000 miles; Frame Rails & Cross Members-48 months unlimited mileage; Cab-48 months unlimited mileage; ABS-24-36 months 300,000 miles.
1	HWATCH_05	Hino Watch Roadside Assistance - 3-year unlimited roadside assistance including lockout, *out of fuel/DEF, battery jumpstart, information, and warranty towing (2 year coverage). *Fluids are customer pay responsibility. Tire Service - assist customer in arranging for roadside tire service if requested
1	GVWR	GVWR - Gross Vehicle Weight Rating - 25,950 lbs.
1	AIRTANK	Air Tank - Two 34 liter tanks (68L total),(15cfm@1250rpm)
1	BRAKES	Brakes - Full air dual circuit "S" cam type, leading and trailing shoes with automatic adjustment and Antilock Brake System (ABS). Front Brakes: 15.0" diameter x 4.0" x 0.73" thickness: Rear Brakes: 16.5" x 7.0" x 0.85".
1	AIRDRYER	Air Dryer - Bendix -AD-IS (Air Dryer Integrated Solution) heated air dryer.
1	WHEELS	Wheels - Accuride powder coated 22.5" x 8.25" 10-stud disc.
1	TIRES	Front tires - Bridgestone 11R 22.5 R268 Rib pattern; Rear tires - Bridgestone 11R 22.5 M726EL Lug pattern.
1	AXLES	Front Axle - Meritor MFS12, 12,000 lb. capacity, Reverse Elliot "I" beam with oil lubricated hubs. Rear Axle - Meritor MS21-14X, 21,000 lb. capacity, full-floating single reduction hypoid gearing.
1	SPRINGS	Front Spring: Tapered leaf springs with shock absorbers, 12,000 lb. rating; Rear Spring: Semi-elliptical main, 21,000 lb. rating.
1	AXLESTD	Rear Axle Ratio - Standard 5.57

Premium/Upgrade Options

Qty	Order Code	Description
1	338-20G	152" WB / 84.6" CA
1	PBGX	Auto - Allison 3000RDS w/Syn Fluids (6-speed). w/ FuelSense
1	BATZC	Battery - GR31x3 (600 CCA x 3).
1	ENGSHT	Engine Shutdown Protection
1	MXSPD70	Max Speed Setting 70mph
1	Z01DIF	Differential Oil - Synthetic Oil for Rear Differential Road Ranger FE 75W-90
1	PWDL	Power Windows & Power Door Locks.

Customer: H I Stone, Inc.
 Dealership: Gabrielli Truck Sales of
 Hartford

Quote Name: 338 DR
 Quote Id: 109140



Prepared By: Jim Rizzo

Premium/Upgrade Options

Qty	Order Code	Description
1	MRRH	Side mirrors - power heated mirrors.
1	HORZA	Air horn.
1	BBUZZ	Backup Alarm.
1	FNDMIR-LO	Fender mounted mirrors - chrome (both sides).
1	SAFETY	Fire Extinguisher ABC 2.5MP, Triangle Kit (17 1/4" wide x 16 1/2" high).
1	ANTSPH1	Anti-Siphon device insert in fuel tank (single fuel tank).
1	STD90X1	Single 90 gallon aluminum fuel tank
1	120K	Hot Rolled Manganese Boron Steel Frame, 34.1" width, yield strength 120,000 PSI, resistance bending movement 1,933,200 in./lbs.(one side)
1	BMPW3P4	Bumper - White 3 piece. 4" extended
1	DRTVT	VIN Tag DeRate Rt 25,950, Axle 10/21

Sales Tax \$4,553.33

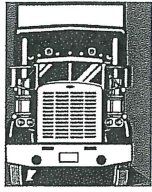
Unit Quantity 1

Total Quoted Price \$76,259.33

*\$156,934.33 Inc. TRUCK BUILDERS
OF CT QUOTE*

9,965.31 Sales Tax

\$166,899.64 TOTAL



TRUCK BUILDERS OF CT

61 Poland Brook Rd
Terryville, CT 06786

Phone: 860-584-1174

Fax: 860-583-5258

Date:

9/16/2019

Lic # U6226

H.I. STONE
313 MAIN STREET
SOUTHBURY, CT 06488

ATTN. Chuck

- 1) BRANDON model MDC contractor dump body with underbody scissor hoist
- 2) King of covers hyd tarp system
- 3) 24 inch back of cab storage compartment
- 4) Boss Chelsea driven 100 plus CFM air compressor with air storage tank
- 5) Muncie central hydraulic system w/ 5 valve air controlled valve bank with power beyond
- 6) Muncie MESP electronic spreader control with in cab electronic control
- 7) Truck Builders of Ct. HD custom low mount plow hitch
- 8) Larochelle 1136 trip edge plow with power angle
- 9) Truck lite LED lighting thru out install to include LED series sixty strobes
- 10) Truk lite hood mounted plow lights on custom brackets
- 11) 10' Downeaster stainless steel hyd spreader with extended spinner
- 12) Brandon steel hyd tank with in line return hyd filtering system

System will be delivered fully tested and functional

Will require extra electrical switches wired outside of cab on the truck from factory

Any additional components needing to be relocated to facilitate installed will be

invoiced at \$110.00 per hour

System requires the use of two PTO's,,one for hyd wetline and one for air compressor

Thank you for this opportunity and look forward to working with you.

Total for this package installed is \$78,475.00 ea.

Thank you

Kim R Pelletier
President
Truck Builders of ct

ATTACHMENT D-3

VENDOR ESTIMATE FOR STATE LINE PROPANE, LLC

Prepared for:
BRIAN GUARCO
STATE LINE PROPANE, LLC
PO BOX 958
GRANBY, CT 06035
Phone: 860-653-8076
Mobile: 860-250-3256
E-Mail: slpbrian@gmail.com

Freightliner Custom Chassis Corporation

Prepared by:
Greg Martinotti
FREIGHTLINER OF HARTFORD
222 ROBERTS STREET
EAST HARTFORD, CT 06108
Phone: 860-559-9547
E-Mail: GREG@FOHCT.COM

A proposal for
STATE LINE PROPANE, LLC

Prepared by
FREIGHTLINER OF HARTFORD
Greg Martinotti

Sep 13, 2019

Freightliner Custom Chassis Corp S2G
Bobtail Proposal – New Tank

Components shown may not reflect all spec'd options and are not to scale

State Line Propane S2G



09/13/2019 6:40 AM

Page 1 of 14

Prepared for:
 BRIAN GUARCO
 STATE LINE PROPANE, LLC
 PO BOX 958
 GRANBY, CT 06035
 Phone: 860-653-8076
 Mobile: 860-250-3256
 E-Mail: slpbrian@gmail.com

Freightliner Custom Chassis Corporation

Prepared by:
 Greg Martinotti
 FREIGHTLINER OF HARTFORD
 222 ROBERTS STREET
 EAST HARTFORD, CT 06108
 Phone: 860-559-9547
 E-Mail: GREG@FOHCT.COM

QUOTATION w / NEW TANK

S2G CONVENTIONAL FULL CAB AND CHASSIS

SET BACK AXLE - TRUCK PSI 8.8 LITER LPG 270 HP @ 2600 RPM, 2800 GOV RPM, 565 LB/FT @ 1600 RPM ALLISON 2500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION DA-RS-23.0-4 23,000# R-SERIES SINGLE REAR AXLE 23,000# AIRLINER REAR SUSPENSION WITH CHAIN CLEARANCE DA-F-10.0-3 10,000# FF1 71.5 KPI/3.74DROP SINGLE FRONT AXLE	12,000# TAPERLEAF FRONT SUSPENSION 106" BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB 5175MM (204 INCH) WHEELBASE 5/16X3X10-1/8 INCH STEEL FRAME (7.94MMX257.2MM/0.312X10.13 INCH) 120KSI 3175MM (125 INCH) REAR FRAME OVERHANG 1/4" (6.35MM) C-CHANNEL PARTIAL INNER FRAME REINF AFT OF BOC XMBR TO FWD RR SUSP NO TAG AXLE
--	--

			PER UNIT		TOTAL
VEHICLE PRICE	TOTAL # OF UNITS (1)	\$	89,638.00	\$	89,638.00
DEALER INSTALLED OPTIONS		\$	75,870.00	\$	75,870.00
CUSTOMER PRICE BEFORE TAX		\$	165,508.00	\$	165,508.00
TAXES AND FEES					
TAXES AND FEES		\$	0	\$	0
OTHER CHARGES		\$	0	\$	0
TRADE-IN					
TRADE-IN ALLOWANCE		\$	(0)	\$	(0)
BALANCE DUE	(LOCAL CURRENCY)	\$	165,508.00	\$	165,508.00

COMMENTS:

Projected delivery on ___ / ___ / ___ provided the order is received before ___ / ___ / ___.

APPROVAL:

Please indicate your acceptance of this quotation by signing below:

Customer: X _____ Date: ___ / ___ / ___.



Prepared for:
 BRIAN GUARCO
 STATE LINE PROPANE, LLC
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Freightliner Custom Chassis Corporation

Prepared by:
 Greg Martinotti
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 222 ROBERTS STREET
 EAST HARTFORD, CT 06108
 Phone: 860-559-9547
 E-Mail: GREG@FOHCT.COM

SPECIFICATION PROPOSAL

Description	Weight Front	Weight Rear
Vehicle Configuration		
S2G CONVENTIONAL FULL CAB AND CHASSIS	5,700	4,300
SET BACK AXLE - TRUCK		
LH PRIMARY STEERING LOCATION		
Pre Specing		
5175MM (204 INCH) WHEELBASE (Cab to Axle 138")		
General Service		
EXPECTED FRONT AXLE(S) LOAD: 10000.0 lbs.		
EXPECTED REAR DRIVE AXLE(S) LOAD: 23000.0 lbs.		
EXPECTED GROSS VEHICLE WEIGHT CAPACITY: 33000.0 lbs.		
TRUCK CONFIGURATION		
PICKUP AND DELIVERY/SHORT HAUL SERVICE		
TANK BODY		
PETROLEUM BUSINESS SEGMENT		
LIQUID BULK COMMODITY		
DOMICILED, USA (EXCLUDING CALIFORNIA AND CARB OPT-IN STATES)		
TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS		
MAXIMUM 8% EXPECTED GRADE		
SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE		
Engine		
PSI 8.8 LITER LPG 270 HP @ 2600 RPM, 2800 GOV RPM, 565 LB/FT @ 1600 RPM		
Engine Controls & Parameters		
IGNITION SWITCH CONTROLLED ENGINE STOP		
2008 CARB EMISSION CERTIFICATION WITH IDLE SHUTDOWN DISABLED - EXEMPTED		
70 MPH ROAD SPEED LIMIT		
CC SPEED LIMIT SAME AS RSL		
NO IDLE SHUTDOWN CONFIGURATION		
PTO MODE ENGINE RPM LIMIT - 2300 RPM		



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Description	Weight Front	Weight Rear
PTO MODE BRK OVERRIDE-SVC BRK APPLIED OR PARK BRK NOT APPLIED		
PTO RPM W/CRUISE SET SW - 1200 RPM		
PTO RPM WITH CRUISE RESUME SWITCH - 1000 RPM		
PTO MODE CANCEL VEHICLE SPEED - 3 MPH		
PTO GOVERNOR RAMP RATE - 200 RPM PER SECOND		
ONE REMOTE PTO SPEED		
REMOTE PTO SPEED 1 SETTING - 1050 RPM		
MAXIMUM ENGINE RPM = 2500 ON VSS FAILURE		

Engine Equipment

700 SQ-IN ALUMINUM RADIATOR
 ENGINE MOUNTED OIL CHECK AND FILL
 5W-30 WEIGHT ENGINE OIL
 DONALDSON 1-STAGE AIR CLEANER
 FRONTAL AIR INTAKE
 AIR INTAKE PIPING - CLNR TO ENGINE
 AIR CLEANER MOUNTED ON FIREWALL
 DR 12V 160 AMP 28-SI QUADRAMOUNT PAD
 ALTERNATOR
 (2) ALLIANCE MODEL 1131, GROUP 31, 12V
 MAINTENANCE FREE 1900 CCA THREADED
 STUD BATTERIES
 BATTERY BOX FRAME MOUNTED
 SINGLE BATTERY BOX FRAME MOUNTED LH
 SIDE UNDER CAB
 FRAME GROUND RETURN FOR BATTERY
 CABLES
 PLASTIC BATTERY BOX COVER
 COLE HERSEE BATTERY SHUTOFF SWITCH,
 BATTERY BOX MOUNTED
 BW SERIES 550 13.2 CFM AIR COMPRESSOR
 STD MECH AIR COMP GOV
 STEEL AIR COMPRESSOR DISCHARGE LINE
 ELECTRONIC ENGINE INTEGRAL WARNING AND
 DERATE PROTECTION SYSTEM
 TRANS GRADE BRK W/ON/OFF DASH SWITCH
 W/SVC BRK
 ENGINE AFTERTREATMENT WIRING, OXYGEN
 SENSOR
 SINGLE HORIZONTAL MUFFLER



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Description	Weight Front	Weight Rear
HORIZONTAL MUFFLER INBOARD MOUNTED		
NO DIESEL EXHAUST FLUID TANK		
NO SCR CATALYST		
NO SCR CATALYST MTG		
EXHAUST MITIGATION DEVICE FTL 4" ID SLIP-FIT		
RH HORIZONTAL TAILPIPE, EXIT AFT OF REAR TIRES		
NON-PERFORATED MUFFLER/TAILPIPE SHIELD		
BORG WARNER VISCOUS FAN DRIVE		
FULL FLOW OIL FILTER		
REMOTE MOUNTED SURGE TANK		
ANTIFREEZE TO -34F, OAT (NITRITE & SILICATE FREE) EXTENDED LIFE COOLANT		
GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT		
CONSTANT TORQUE BREEZE CLAMPS ON 1" IN DIA AND GREATER, SS CLAMPS LESS THAN 1"		
LOWER RADIATOR GUARD		
ALUMINUM FLYWHEEL HOUSING		
DELCO 12V PG260N STARTER		

Transmission

ALLISON 2500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION

Transmission Controls & Parameters

T-HANDLE CABLE SHIFT CONTROL WITHOUT PARK BRAKE POSITION
 VEHICLE INTERFACE WIRING WITH BODY BUILDER CONNECTOR MOUNTED BOC
 PKG 371 - 1K/2KPTS/HS/RDS - 5TH GEN
 ALLISON TRANS - SEM/LRTP REQ
 TRANS PROG-ENABLED
 6, 4, 3, 2 - D, 4, 3, L -1K/2K PRIMARY GEARS
 RANGE INDICATION, PARK, NEUT
 SECONDARY MODE INPUT - MODE SWITCH, FOR 1000/2000 PRODUCT FAMILIES ONLY
 MAX PTO ENG SPD OPERATION, 1800
 MAX PTO O/P SPD ENGMNT, 800

Transmission Equipment

WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK



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Description	Weight Front	Weight Rear
TRANSMISSION OIL CHECK AND FILL SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)		
Front Axle & Equipment		
DA-F-10.0-3 10,000# FF1 71.5 KPI/3.74DROP SINGLE FRONT AXLE		
NON-ASBESTOS FRONT BRAKE LINING		
MERITOR 16.5X5 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES		
HALDEX LONGSTROKE FRONT BRAKE CHAMBERS		
MERITOR AUTOMATIC FRONT SLACK ADJUSTERS		
FRONT BRAKE DUST SHIELDS		
CONMET CAST IRON FRONT BRAKE DRUMS		
CONMET IRON FRONT HUBS		
SKF SCOTSEAL CLASSIC FRONT OIL SEALS		
VENTED FRONT HUB CAPS W/WINDOW, CENTER AND SIDE PLUGS - OIL		
SYNTHETIC 75W-90 FRONT AXLE LUBE		
STANDARD SPINDLE NUTS FOR ALL AXLES		
STANDARD CUPS AND CONES (WHEEL BEARINGS) FRONT AND REAR		
TRW THP-60 POWER STEERING		
POWER STEERING PUMP		
2 QUART SEE THROUGH POWER STEERING RESERVOIR		
OIL/AIR POWER STEERING COOLER		
Front Suspension		
12,000# TAPERLEAF FRONT SUSPENSION		
MAINTENANCE FREE RUBBER BUSHINGS - FRONT SUSPENSION		
SACHS FRONT SHOCK ABSORBERS		
Rear Axle & Equipment		
DA-RS-23.0-4 23,000# R-SERIES SINGLE REAR AXLE		
6.14 REAR AXLE RATIO		
IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING		
1710 DANA SPICER MAIN DRIVELINE W/HALF ROUND YOKES & REDUCED SIZE BEARING		



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Description	Weight Front	Weight Rear
SYNTHETIC 75W-90 REAR AXLE LUBE		
DRIVER CONTROLLED TRACTION DIFFERENTIAL - SINGLE REAR AXLE		
MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FAB'D SHOES		
NON-ASBESTOS REAR BRAKE LINING		
CAM SUPPORT BRACKETS		
CONMET CAST IRON REAR BRAKE DRUMS		
REAR BRAKE DUST SHIELDS		
SKF SCOTSEAL CLASSIC REAR OIL SEALS		
NO DRIVELINE PARKING BRAKE		
HALDEX GOLDSEAL LONGSTROKE 1-DRIVE AXLE SPRING PARKING CHAMBERS		
MERITOR AUTOMATIC REAR SLACK ADJUSTERS		

Rear Suspension

23,000# AIRLINER REAR SUSPENSION WITH CHAIN CLEARANCE
 AIRLINER HIGH POSITION RIDE HEIGHT
 MANUAL DUMP VALVE FOR AIR SUSPENSION W/INDICATOR LIGHT, W/O GAUGE
 DUAL AIR REAR SUSPENSION LEVELING VALVES
 REAR AIR SUSPENSION DUMP VALVE AUTOFILL W/IGNITION OFF OR >5 MPH WIND LIGHT
 (1) DCDL REAR VLV FOR SINGLE DRIVE AXLE
 REAR SWAYBAR
 SACHS REAR SHOCK ABSORBERS

Brake System

AIR BRAKE PACKAGE
 WABCO 4S/4M ABS WITHOUT TRACTION CONTROL
 REINFORCED NYLON, FABRIC BRAID & WIRE BRAID CHASSIS AIR LINES
 FIBER BRAID HOSE FRONT SERVICE BRAKE
 FIBER BRAID HOSE REAR SERVICE BRAKE
 FIBER BRAID PARKING BRAKE HOSE
 STANDARD BRAKE SYSTEM VALVES
 STD U.S. FRONT BRAKE VALVE
 RELAY VALVE W/ 5-8 PSI CRACK PRESSURE NO REAR PROPORTIONING VALVE



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Description	Weight Front	Weight Rear
STANDARD AIR SYSTEM PRESSURE PROTECTION		
STANDARD AIR MANAGEMENT UNIT		
BW AD-9 BRAKE LINE AIR DRYER WITH HEATER		
AIR DRYER MTD UNDER HOOD		
STEEL AIR BRAKE RESERVOIRS MOUNTED IN CAB ENTRY STEPS&UNDER BATTERY BOX		
PULL CABLES ON ALL AIR RESERVOIR(S)		

Wheelbase & Frame

5175MM (204 INCH) WHEELBASE
 5/16X3X10-1/8 INCH STEEL FRAME
 (7.94MMX257.2MM/0.312X10.13 INCH) 120KSI
 1/4" (6.35MM) C-CHANNEL PARTIAL INNER FRAME REINF AFT OF BOC XMBR TO FWD RR SUSP
 3175MM (125 INCH) REAR FRAME OVERHANG
 SQUARE END OF FRAME
 FRONT CLOSING CROSSMEMBER
 STANDARD WEIGHT ENGINE CROSSMEMBER
 STANDARD MIDSHIP #1 CROSSMEMBER(S)
 STANDARD REARMOST CROSSMEMBER
 STANDARD SUSPENSION CROSSMEMBER

Chassis Equipment

THREE-PIECE 14 INCH CHROMED STEEL BUMPER WITH COLLAPSIBLE ENDS
 FRONT TOW HOOKS - FRAME MOUNTED
 BUMPER MOUNTING FOR SINGLE LICENSE PLATE
 FENDER & FRONT OF HOOD MOUNTED FRONT MUDFLAPS
 ZINC PLATED HEX HEADED FRAME FASTENERS

Fuel Tanks

60 GAL 16"X97" LPG FUEL TANK - RH
 (LPG) LIQUID PROPANE GAS FUEL
 RH LPG TANK AFT OF FRONT AXLE; FWD OF REAR AXLE W/PROTECTIVE CAGE
 RH SIDEFILL FUEL TANK CAP
 CYLINDRICAL FUEL TANK(S)
 LPG FUEL LINES; FILL, SUPPLY & RETURN
 FLEXIBLE STEEL WIRE REINFORCED PROPANE OR NATURAL GAS NYLON FUEL HOSE



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Description	Weight Front	Weight Rear
Tires		
MICHELIN XZE2 11R22.5 16 PLY RADIAL FRONT TIRES TIRE QTY - FRONT AXLE: 2 MICHELIN X MULTI D 11R22.5 16 PLY RADIAL REAR TIRES (NORTH AMERICAN ONLY) TIRE QTY - REAR AXLE: 4 ALL TIRE/DISC WHEEL STATIC BALANCING W/LEAD-FREE WEIGHTS		
Hubs		
CONMET IRON REAR HUBS		
Wheels		
ALCOA LVL ONE 88367X 22.5X8.25 10-HP ALUMINUM DISC FRONT WHEELS ALCOA BRIGHT FINISH FRT WHLS W/BRIGHT WHL COVERS ALCOA LVL ONE 88367X 22.5X8.25 10-HP ALUMINUM DISC REAR WHEELS ALCOA BRIGHT FINISH REAR WHLS W/BRIGHT WHL COVERS FRONT WHEEL MOUNTING NUTS REAR WHEEL MOUNTING NUTS NYLON WHEEL GUARDS, FRONT & REAR ALL INTERFACES		
Cab Exterior		
106" BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB LH CAB DOOR(S) WITH 70 DEGREE DOOR STOP RH CAB DOOR(S) WITH 70 DEGREE DOOR STOP LH & RH CAB DOOR LATCHES WITH ELECTRIC DOOR LOCKS AIR CAB MOUNTS POLISHED SS STEP FINISH LH/RH GRAB HANDLES FIBERGLASS HOOD STANDARD DUTY HOOD MOUNTING FREIGHTLINER FRONT NAMEPLATE TUNNEL/FIREWALL LINER HOOD MOUNTED CHROMED PLASTIC GRILLE NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE		



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Description	Weight Front	Weight Rear
DUAL 26" RECTANGULAR POLISHED ALUMINUM AIR HORNS ROOF MOUNTED		
DUAL ELECTRIC HORNS		
DUAL HORN SHIELDS		
DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME		
INTEGRAL HEADLIGHT/MARKER ASSEMBLY WITH CHROME BEZEL		
LED AERODYNAMIC MARKER LIGHTS		
DAYTIME RUNNING LIGHTS ON FRONT TURN LAMPS WITH ENGINE RUNNING		
OMIT STOP/TAIL/BU LTS & PROVIDE WRG W/SEP STOP/TURN WIRES TO 4' BEYOND EOF		
STANDARD TURN SIGNAL WIRING		
STANDARD FRONT TURN SIGNAL LAMPS		
DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS WITH LH AND RH REMOTE		
DOOR MOUNTED MIRRORS		
LH AND RH 8" BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS		
STANDARD SIDE/REAR REFLECTORS		
DUAL LEVEL CAB ENTRY STEPS ON BOTH SIDES		
63"X14" TINTED REAR WINDOW		
TINTED DOOR GLASS LH AND RH WITH TINTED NON-OPERATING WING WINDOWS		
LH & RH ELECTRIC WINDOW REGULATOR		
1-PIECE TINTED ROPED-IN WINDSHIELD		
1 GALLON WINDSHIELD WASHER RESERVOIR		
COMPOSITE EXTERIOR SUN VISOR		
UPGRADED CHASSIS MULTIPLEXING UNIT		

Cab Interior

OPAL GRAY VINYL INTERIOR
 BLACK MATS WITH SINGLE INSULATION
 DASH MOUNTED ASH TRAY(S) WITHOUT
 LIGHTER
 FORWARD ROOF MOUNTED CONSOLE WITH
 UPPER STORAGE COMPARTMENTS WITHOUT
 NETTING
 IN DASH STORAGE BIN



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Description	Weight Front	Weight Rear
CENTER STORAGE CONSOLE MOUNTED ON BACKWALL		
(2) CUP HOLDERS LH AND RH DASH		
GRAY/CHARCOAL FLAT DASH		
STANDARD WIRING		
2-1/2 LB. FIRE EXTINGUISHER		
SANDEN COMPACT AIR CONDITIONER COMPRESSOR		
HEATER, DEFROSTER AND AIR CONDITIONER		
STANDARD HVAC DUCTING WITH SNOW SHIELD FOR FRESH AIR INTAKE		
MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH		
RADIATOR MOUNTED AIR CONDITIONER CONDENSER		
BINARY CONTROL, R-134A		
MANIFOLD PLUMBING WITH COMBINED SUPPLY AND RETURN SHUTOFF TO DASH ONLY		
PREMIUM INSULATION		
SOLID-STATE CIRCUIT PROTECTION, PDMS W/FUSES & BRKRS, PDC W/FUSES & BRKR		
12V NEGATIVE GROUND ELECTRICAL SYSTEM WITH UNMOUNTED BASIC WIRING SCHEMATIC		
UPGRADED BULKHEAD MULTIPLEXING UNIT		
STANDARD BRAKE WIRING		
LH/RH DOOR ACTIVATED DOME LT W/3-WAY SW & COURTESY LIGHTS MOUNTED ON ALL DOORS		
STEPWELL LAMP ON WITH DOOR(S) OPEN		
TRIANGULAR REFLECTORS W/O FLARES		
PREM HB AIR SUSP ST W/3 CHMBR AIR LMBR, INT CUSH EXT, FWD&RR TILT, ADJ SHK		
BASIC HB NON SUSP PASS SEAT		
DUAL DRIVER SEAT ARMRESTS, NO PASSENGER SEAT ARMRESTS		
LH AND RH INTEGRAL DOOR PANEL ARMRESTS		
BLACK CORDURA PLUS CLOTH DRIVER SEAT COVER		
BLACK CORDURA PLUS CLOTH PASSENGER SEAT COVER		
3 POINT FIXED D-RING RETRACTOR DRIVER AND PASSENGER SEAT BELTS		
MOLDED PLASTIC DOOR PANEL		



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Description	Weight Front	Weight Rear
MOLDED PLASTIC DOOR PANEL		
COAT HOOK(S) IN CAB		
ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN		
4-SPOKE 18 INCH (450MM) STEERING WHEEL		
DRIVER AND PASSENGER INTERIOR SUN VISORS		
Instruments & Controls		
NO CLUTCH PEDAL W/NON-ADJUSTABLE SUSPENDED BRAKE AND ACCELERATOR PEDALS		
ELECTRONIC ACCELERATOR CONTROL		
GRAY DRIVER INSTRUMENT PANEL		
GRAY CENTER INSTRUMENT PANEL		
BLACK GAUGE BEZELS		
DRIVER MESSAGE CENTER W/LCD DISPLAY, 24 WARNING LAMPS, DATA LINKED, AMI		
ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER		
ELECTRONIC TACHOMETER 6000 RPM		
2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES		
ELECTRIC ENGINE OIL PRESSURE GAUGE		
ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE		
DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY		
2 INCH ELECTRIC FUEL GAUGE		
DIGITAL TRANS OIL TEMP IN DRIVER DISPLAY		
LOW AIR PRESSURE LIGHT AND BUZZER		
ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY		
STANDARD VEHICLE SPEED SENSOR		
INTAKE MOUNTED AIR RESTRICTION INDICATOR WITHOUT GRADUATIONS		
87 DB TO 112 DB SELF-ADJUSTING BACKUP ALARM		
ELECTRONIC CRUISE CONTROL WITH SWITCHES IN LH SWITCH PANEL		
KEY OPERATED IGN SW & INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACC		



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Description	Weight Front	Weight Rear
DIAGNOSTIC INTERFACE CONNECTOR, 9 PIN, SAE J1939, LOCATED BELOW DASH		
ENGINE REMOTE INTERFACE WITH PRESET FAST IDLE		
CUSTOMER FURNISHED DIN RADIO PACKAGE		
DASH MOUNTED RADIO		
(2) RADIO SPEAKERS IN CAB		
AM/FM ANTENNA MOUNTED ON LH SIDE MIRROR		
FOUR ON/OFF RKR SW IN DASH W/IND LTS & WIRE RTD TO CH BOC, LABEL OPT		
SINGLE ELECTRIC WINDSHIELD WIPER MOTOR W/DELAY AND ARCTIC TYPE BLADES		
MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH		
ONE VALVE PARKING BRAKE SYSTEM WITH WARNING INDICATOR		
SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE		
INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS		

Design

PAINT: ONE SOLID COLOR
 PAINT CAB ONE SOLID COLOR

Color

CAB COLOR A: L0006EB WHITE ELITE BC
 GRILLE: SILVER N3388EA ELITE SS
 CHASSIS PAINT: VENDOR BLACK
 SUNVISOR PAINTED SAME AS CAB COLOR A

Basic Chassis Warranty

FREIGHTLINER CUSTOM CHASSIS CORPORATION BASIC CHASSIS WARRANTY

Certification / Compliance

U.S. FMVSS CERTIFICATION

TOTAL VEHICLE SUMMARY



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Weight Summary

	Weight Front	Weight Rear	Total Weight
Factory Weight ⁺	5700 lbs.	4300 lbs.	10000 lbs.
Total Weight ⁺	5700 lbs.	4300 lbs.	10000 lbs.

(+) Weights shown are estimates only.

If weight is critical, contact Customer Application Engineering.

(***) All cost increases for major components (Engines, Transmissions, Axles, Front and Rear Tires) and government mandated requirements, tariffs, and raw material surcharges will be passed through and added to factory invoices.



Quotation

9/13/2019

Proposal for:	STATE LINE PROPANE
Contact:	BRIAN



LIBERTY PROPANE EQUIPMENT CO., LLC.

77 Cherry Street
East Hartford, Connecticut 06108
Ph: (860) 610-0666
Fax: (860) 291-9014

We are pleased to submit the following quotation for a: gallon rated capacity Propane vessel. Built in accordance with ASME code and DOT MC331 specifications and all safety standards in effect at the time of manufacturing. Construction of baffled working pressure of 250 PSI. DOT compliant steel rear bumper and aluminum rear deck with bolt on aluminum rear fenders.

LIGHTS & WIRING

Truck Lite or Betts hard wire non corrosive explosion proof LED lighting system using Lexan housing and marine grade junction boxes. Work area spotlights installed on top of meter box cover and extra backup lights behind cab on each corner. All electric wiring and controls for hose reel, meter, PTO and Base system are ran in conduit or marine grade wiring and sealed boxes.

EQUIPMENT SPECIFICATIONS

- * Chelsea Electric shift power take off operated from rear of unit mounted in meter cover along with function on remote
- * Air operated valve controls operated from rear of unit mounted in meter cover
- * Electronic throttle system
- * Heavy duty P.T.O. shaft with pillow block supports
- * Blackmer TLGLF3C flange mounted pump
- * 3" MEC air internal valve system.
- * Full port stainless steel ball valves.
- * Hannay Aluminum square tube frame hose reel with explosion proof switch, junction box and guide arm
- * Liquid Controls 2" MA7-10 meter with LCR11 register, cab mounted Epson printer on pedestal, electronic tempature compensation and solenoid controled security/preset valve
- * Aluminum Meter cover with hinged door and door check and all controls mounted in cover
- * Irpco/Thermoid 1" x 150' propane delivery hose
- * Rego quick acting delivery nozzle and MEC swivel with deck mounted nozzle holder
- * 36" Stainless Steel frame mounted toolbox
- * 20# ABC fire extinguisher with bracket and cover frame mounted
- * Base Engineering 3 function remote shut down system PTO-Throttle-Emergency Stop
- * Aluminum wheel chocks with frame mounted holder
- * Back up alarm
- * 3" spray fill line with 2" full port globe valve
- * 3 1/4" Acme fitting and backcheck valve

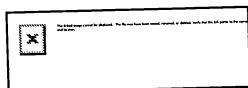
Continued on next Page...

- * 1 1/4" vapor line with 1 1/4" air internal valve
- * 1 1/4" full port globe valve 1 3/4" Acme fitting
- * 2" external bypass line with 2" backcheck valve
- * 2" Internal piping from discharge of pump into bottom of vessel and to rear head of vessel
- * External piping from rear head of vessel to meter with 2" flanged valve installed in line before meter
- * 2" piping from meter to hose reel with 2" stainless full port ball valve installed before reel
- * MEC liquid volume gauge
- * MEC Pressure and temperature gauges
- * Two MEC 2" pressure relief valves.
- * All piping and pumping equipment tested for leaks.
- * Meter calibrated.
- * Vessel sandblasted, primed and painted white
- * **OPTION ONLY**
- ** **Propane Stabilizer install if truck cavitates.**

NOTES

OTHER

Prepared for:
Brian Guarco
State Line Propane, LLC
P.O. Box 958
Granby, CT 06035
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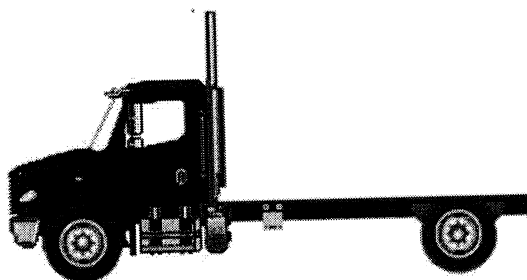
Prepared by:
Greg Martinotti
FREIGHTLINER OF HARTFORD
222 ROBERTS STREET
EAST HARTFORD, CT 06108
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A proposal for
State Line Propane, LLC

Prepared by
FREIGHTLINER OF HARTFORD
Greg Martinotti

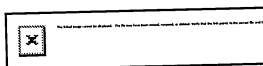
Sept. 13, 2019

Freightliner M2 106
2020 Oil Truck
2-Compartment Tank Transfer



Components shown may not reflect all spec'd options and are not to scale

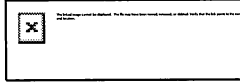
DD8 Oil Truck



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Page 1 of 19

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Q U O T A T I O N w / 2 - C o m p T a n k T r a n s f e r

M2 106 CONVENTIONAL CHASSIS

SET BACK AXLE - TRUCK
 DD8 7.7L 6 CYL DUAL STAGE 350 HP @ 2200 RPM, 2600
 GOV RPM, 1050 LB/FT @ 1200 RPM
 ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH
 PTO PROVISION
 DETROIT DA-RS-23.0-4 23,000# R-SERIES SINGLE REAR
 AXLE
 AIRLINER 23,000# REAR SUSPENSION WITH CHAIN
 CLEARANCE

DETROIT DA-F-10.0-3 10,000# FF1 71.5 KPI/3.74 DROP
 SINGLE FRONT AXLE
 12,000# MONO TAPERLEAF FRONT SUSPENSION
 106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL
 CAB
 4725MM (186 INCH) WHEELBASE
 11/32X3-1/2X10-15/16 INCH STEEL FRAME
 (8.73MMX277.8MM/0.344X10.94 INCH) 120KSI
 3050MM (120 INCH) REAR FRAME OVERHANG

		PER UNIT	TOTAL
VEHICLE PRICE - CHASSIS	TOTAL # OF UNITS (1)	\$ 86,908	\$ 86,908
DEALER INSTALLED - OIL TANK		\$ 21,500	\$ 21,500
CUSTOMER PRICE BEFORE TAX		\$ 108,408	\$ 108,408

TRADE-IN

TRADE-IN ALLOWANCE	\$	(0)	\$ (0)
BALANCE DUE	(LOCAL CURRENCY) \$	108,408	\$ 108,408

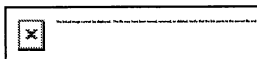
COMMENTS / OPTIONS:

- EW4: DD8 5-years / 150,000-mile full engine / emission coverage. **ADD \$2,700**
- TC4: MD 5-years / 150,000-mile extended truck coverage. **ADD \$1,715**
- Allison 3000RDS 5-years / unlimited mile extended transmission coverage. **ADD \$573**
- Axle: front & single rear MD 5-years / 200,000-mile extended axle coverage. **ADD \$275**

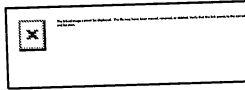
APPROVAL:

Please indicate your acceptance of this quotation by signing below:

Customer: X _____ Date: ___ / ___ / ___.



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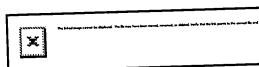


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S P E C I F I C A T I O N P R O P O S A L

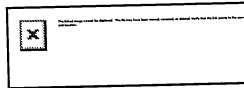
Description	Weight Front	Weight Rear
Interior Convenience/Driver Retention Package		
INTERIOR CONVENIENCE PACKAGE WITH CB PROVISION		
Vehicle Configuration		
M2 106 CONVENTIONAL CHASSIS	5,759	3,503
2020 MODEL YEAR SPECIFIED		
SET BACK AXLE - TRUCK		
STRAIGHT TRUCK PROVISION		
LH PRIMARY STEERING LOCATION		
General Service		
TRUCK CONFIGURATION		
DOMICILED, USA (EXCLUDING CALIFORNIA AND CARB OPT-IN STATES)		
PICKUP AND DELIVERY/SHORT HAUL SERVICE		
PETROLEUM BUSINESS SEGMENT		
LIQUID BULK COMMODITY		
TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS		
MAXIMUM 8% EXPECTED GRADE		
SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE		
MEDIUM TRUCK WARRANTY		
EXPECTED FRONT AXLE(S) LOAD: 10000.0 lbs.		
EXPECTED REAR DRIVE AXLE(S) LOAD: 23000.0 lbs.		
EXPECTED GROSS VEHICLE WEIGHT CAPACITY: 33000.0 lbs.		
Truck Service		
TANK BODY		
EXPECTED TRUCK BODY LENGTH: 14.0 ft		
EXPECTED TRUCK BODY WIDTH: 96.0 in		
LIBERTY OIL CO.		
EXPECTED BODY/PAYLOAD CG HEIGHT ABOVE FRAME "XX" INCHES: 32.0 in		
Engine		
DD8 7.7L 6 CYL DUAL STAGE 350 HP @ 2200 RPM, 2600 GOV RPM, 1050 LB/FT @ 1200 RPM	450	30

DD8 Oil Truck



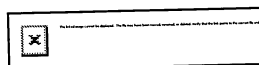
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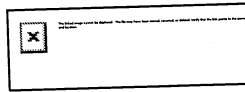


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Description	Weight Front	Weight Rear
Electronic Parameters		
69 MPH ROAD SPEED LIMIT CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT PTO MODE ENGINE RPM LIMIT - 1100 RPM PTO RPM WITH CRUISE SET SWITCH - 700 RPM PTO RPM WITH CRUISE RESUME SWITCH - 800 RPM PTO MODE RPM INCREMENT - 25 RPM ONE REMOTE PTO SPEED PTO SPEED 1 SETTING - 900 RPM PTO MINIMUM RPM - 700 ENABLE AUTO ENGINE RPM ELEVATE FOR EXTENDED IDLE		
Engine Equipment		
2016 ONBOARD DIAGNOSTICS/2010 EPA/CARB/FINAL GHG17 CONFIGURATION 2008 CARB EMISSION CERTIFICATION - CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LOWER FORWARD CORNER OF DRIVER DOOR) STANDARD OIL PAN ENGINE MOUNTED OIL CHECK AND FILL ONE PIECE VALVE COVER SIDE OF HOOD AIR INTAKE WITH FIREWALL MOUNTED DONALDSON AIR CLEANER DR 12V 160 AMP 36-SI BRUSHLESS QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE (2) DTNA GENUINE, FLOODED STARTING, MIN 2250CCA, 390RC, THREADED STUD BATTERIES BATTERY BOX FRAME MOUNTED STANDARD BATTERY JUMPERS SINGLE BATTERY BOX FRAME MOUNTED LH SIDE BACK OF CAB WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN NON-POLISHED BATTERY BOX COVER NO CAB AUXILIARY POWER WIRING POSITIVE LOAD DISCONNECT WITH CAB MOUNTED CONTROL SWITCH MOUNTED OUTBOARD DRIVER SEAT	10	8

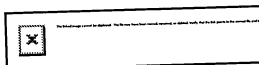


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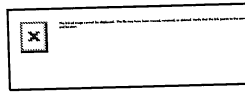


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Description	Weight Front	Weight Rear
WABCO 20.0 CFM SINGLE CYLINDER AIR COMPRESSOR		
STANDARD MECHANICAL AIR COMPRESSOR GOVERNOR		
AIR COMPRESSOR DISCHARGE LINE		
ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM		
DETROIT MD COMPRESSION BRAKE WITH ON/OFF SWITCH		
RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE	30	25
ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH		
10 FOOT 00 INCH (120 INCH+0/-5.9 INCH) EXHAUST SYSTEM HEIGHT		
RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP		
13 GALLON DIESEL EXHAUST FLUID TANK	35	10
100 PERCENT DIESEL EXHAUST FLUID FILL POLISHED ALUMINUM DIESEL EXHAUST FLUID TANK COVER	15	5
LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION		
STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING		
STANDARD DIESEL EXHAUST FLUID TANK CAP		
STAINLESS STEEL AFTERTREATMENT DEVICE/MUFFLER/TAILPIPE SHIELD		
AIR POWERED ON/OFF ENGINE FAN CLUTCH		
AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON-ENGINE MOUNTED		
DETROIT ENGINE MOUNTED FUEL/WATER SEPARATOR WITH WATER-IN-FUEL SENSOR AND HAND PRIMER		
FULL FLOW OIL FILTER		
900 SQUARE INCH ALUMINUM RADIATOR	-35	
ANTIFREEZE TO -34F, OAT (NITRITE AND SILICATE FREE) EXTENDED LIFE COOLANT		
GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT		



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Description	Weight Front	Weight Rear
CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES		
RADIATOR DRAIN VALVE		
LOWER RADIATOR GUARD		
PHILLIPS-TEMRO 750 WATT/115 VOLT BLOCK HEATER	4	
CHROME ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR		
ALUMINUM FLYWHEEL HOUSING		
DELCO 12V 35MT STARTER WITH INTEGRATED MAGNETIC SWITCH AND SOLENOID	10	
Transmission		
ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION	200	60

Transmission Equipment

ALLISON VOCATIONAL PACKAGE 223 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODELS RDS, HS, MH AND TRV

ALLISON VOCATIONAL RATING FOR ON/OFF HIGHWAY APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES

PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY

SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY

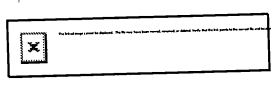
PRIMARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE

SECONDARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE

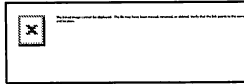
PRIMARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE

SECONDARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE

ENGINE BRAKE RANGE PRESELECT RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE



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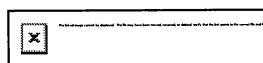


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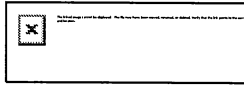
Description	Weight Front	Weight Rear
ENGINE BRAKE RANGE ALTERNATE PRESELECT RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
DYNAMIC SHIFT SENSING AND ACCELERATION RATE MANAGEMENT RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED VOCATIONAL USAGE		
NEUTRAL AT STOP - DISABLED, FUELSense - DISABLED		
DRIVER SWITCH INPUT - DEFAULT - NO SWITCHES		
VEHICLE INTERFACE WIRING CONNECTOR WITHOUT BLUNT CUTS, AT END OF FRAME		
CUSTOMER INSTALLED CHELSEA 277 SERIES PTO		
PTO MOUNTING, RH SIDE OF MAIN TRANSMISSION		
MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN		
PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH MOUNTED		
TRANSMISSION PROGNOSTICS - ENABLED 2013		
WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK		
TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK		
SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)		

Front Axle and Equipment

DETROIT DA-F-10.0-3 10,000# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE		
MERITOR 16.5X5 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES		
NON-ASBESTOS FRONT BRAKE LINING		
CONMET CAST IRON FRONT BRAKE DRUMS		
FRONT BRAKE DUST SHIELDS	5	
FRONT OIL SEALS		
CR STEEL VENTED FRONT HUB CAPS WITH WINDOW AND CENTER PLUG - OIL		
STANDARD SPINDLE NUTS FOR ALL AXLES		
MERITOR AUTOMATIC FRONT SLACK ADJUSTERS		



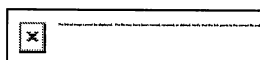
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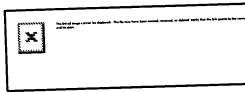
Description	Weight Front	Weight Rear
TRW THP-60 POWER STEERING POWER STEERING PUMP 2 QUART SEE THROUGH POWER STEERING RESERVOIR SYNTHETIC 75W-90 FRONT AXLE LUBE		
Front Suspension		
12,000# MONO TAPERLEAF FRONT SUSPENSION MAINTENANCE FREE RUBBER BUSHINGS - FRONT SUSPENSION FRONT SHOCK ABSORBERS		
Rear Axle and Equipment		
DETROIT DA-RS-23.0-4 23,000# R-SERIES SINGLE REAR AXLE		30
5.88 REAR AXLE RATIO		
IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING		
MXL 17T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES		
DRIVER CONTROLLED TRACTION DIFFERENTIAL - SINGLE REAR AXLE		20
(1) DRIVER CONTROLLED DIFFERENTIAL LOCK REAR VALVE FOR SINGLE DRIVE AXLE		
BLINKING LAMP WITH EACH MODE SWITCH, DIFFERENTIAL UNLOCK WITH IGNITION OFF, ACTIVE <5 MPH		
MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES		
NON-ASBESTOS REAR BRAKE LINING BRAKE CAMS AND CHAMBERS ON FORWARD SIDE OF DRIVE AXLE(S) WITH AUXILIARY SUPPORT BRACKETS		
CONMET CAST IRON REAR BRAKE DRUMS		
REAR BRAKE DUST SHIELDS		5
REAR OIL SEALS		
WABCO TRISTOP D LONGSTROKE 1-DRIVE AXLE SPRING PARKING CHAMBERS		
MERITOR AUTOMATIC REAR SLACK ADJUSTERS		
SYNTHETIC 75W-90 REAR AXLE LUBE		
Rear Suspension		

DD8 Oil Truck



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Description	Weight Front	Weight Rear
AIRLINER 23,000# REAR SUSPENSION WITH CHAIN CLEARANCE		180
AIRLINER HIGH POSITION RIDE HEIGHT		
STANDARD U-BOLT PAD WITH U-BOLTS EXTENDED 1.00" LONGER THAN STANDARD		
SINGLE AIR REAR SUSPENSION LEVELING VALVE		
TRANSVERSE CONTROL RODS		
REAR SHOCK ABSORBERS - ONE AXLE (AIR RIDE SUSPENSION)		

Brake System

AIR BRAKE PACKAGE
 WABCO 4S/4M ABS
 REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES
 FIBER BRAID PARKING BRAKE HOSE
 STANDARD BRAKE SYSTEM VALVES
 STANDARD AIR SYSTEM PRESSURE PROTECTION SYSTEM
 STD U.S. FRONT BRAKE VALVE
 RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE
 BW AD-9SI BRAKE LINE AIR DRYER WITH HEATER
 AIR DRYER MOUNTED UNDER HOOD
 STEEL AIR TANKS MOUNTED BELOW FRAME RAILS
 CLEAR FRAME RAILS FROM TRANSMISSION PTO OPENING TO 36 INCHES BACK OF CAB OUTBOARD/INSIDE/BELOW BOTH RAILS
 PULL CABLE ON WET TANK, PETCOCK DRAIN VALVES ON ALL OTHER AIR TANKS

5 5

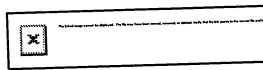
Trailer Connections

UPGRADED CHASSIS MULTIPLEXING UNIT
 UPGRADED BULKHEAD MULTIPLEXING UNIT

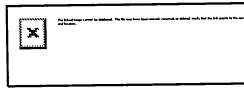
Wheelbase & Frame

4725MM (186 INCH) WHEELBASE
 11/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8MM/0.344X10.94 INCH) 120KSI
 3050MM (120 INCH) REAR FRAME OVERHANG
 FRAME OVERHANG RANGE: 111 INCH TO 120 INCH

70 130
 -70 310

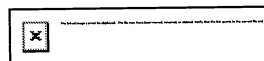


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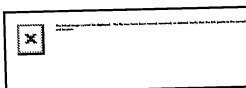


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Description	Weight Front	Weight Rear
CALC'D BACK OF CAB TO REAR SUSP C/L (CA): 120.45 in		
CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA): 117.45 in		
CALC'D FRAME LENGTH - OVERALL: 335.51		
CALC'D SPACE AVAILABLE FOR DECKPLATE: 120.45 in		
CALCULATED FRAME SPACE LH SIDE: 72.78 in		
CALCULATED FRAME SPACE RH SIDE: 100.86 in		
SQUARE END OF FRAME		
FRONT CLOSING CROSSMEMBER		
STANDARD WEIGHT ENGINE CROSSMEMBER		
STANDARD CROSSMEMBER BACK OF TRANSMISSION		
STANDARD MIDSHIP #1 CROSSMEMBER(S)		
STANDARD REARMOST CROSSMEMBER		
HEAVY DUTY SUSPENSION CROSSMEMBER		30
Chassis Equipment		
THREE-PIECE 14 INCH CHROMED STEEL BUMPER WITH COLLAPSIBLE ENDS	30	
FRONT TOW HOOKS - FRAME MOUNTED	15	
BUMPER MOUNTING FOR SINGLE LICENSE PLATE		
FENDER AND FRONT OF HOOD MOUNTED FRONT MUDFLAPS		
GRADE 8 THREADED HEX HEADED FRAME FASTENERS		
TANK BODY 1501 TO 3000 GALLONS		
Fuel Tanks		
50 GALLON/189 LITER SHORT RECTANGULAR ALUMINUM FUEL TANK - LH	20	
RECTANGULAR FUEL TANK(S)		
POLISHING OF FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS		
FUEL TANK(S) FORWARD		
POLISHED STAINLESS-STEEL STEP FINISH		
FUEL TANK CAP(S)		
DETROIT FUEL/WATER SEPARATOR WITH BYPASS AND 12 VOLT PREHEATER	-5	
EQUIFLO INBOARD FUEL SYSTEM		
HIGH TEMPERATURE REINFORCED NYLON FUEL LINE		

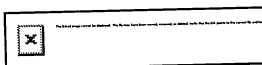


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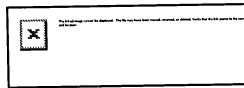


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Description	Weight Front	Weight Rear
Tires		
BF GOODRICH ST230 11R22.5 16 PLY RADIAL FRONT TIRES		
BF GOODRICH DR444 11R22.5 16 PLY RADIAL REAR TIRES		36
Hubs		
CONMET PRESET PLUS PREMIUM IRON FRONT HUBS		
CONMET PRESET PLUS PREMIUM IRON REAR HUBS		
Wheels		
ALCOA LVL ONE 88367X 22.5X8.25 10-HUB PILOT 5.79 INSET ALUMINUM DISC FRONT WHEELS	-50	
ALCOA LVL ONE 88367X 22.5X8.25 10-HUB PILOT ALUMINUM DISC REAR WHEELS		-100
POLISHED DISC SIDE FRONT WHEELS WITH DURA-BRIGHT FINISH		
POLISHED OUTER (DISHED SIDE) REAR WHEELS WITH OUTER ONLY DURA-BRIGHT FINISH		
FRONT WHEEL MOUNTING NUTS		
REAR WHEEL MOUNTING NUTS		
Cab Exterior		
106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB		
AIR CAB MOUNTING		
NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE		
LH AND RH GRAB HANDLES		
HOOD MOUNTED CHROMED PLASTIC GRILLE		
CHROME HOOD MOUNTED AIR INTAKE GRILLE		
FIBERGLASS HOOD		
DUAL 26 INCH RECTANGULAR POLISHED ALUMINUM AIR HORNS ROOF MOUNTED		8
SINGLE ELECTRIC HORN		
DUAL HORN SHIELDS		
DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME		
REAR LICENSE PLATE MOUNT END OF FRAME		
INTEGRAL HEADLIGHT/MARKER ASSEMBLY WITH CHROME BEZEL		



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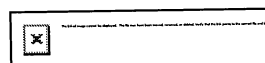


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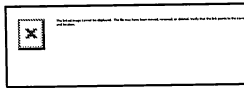
Description	Weight Front	Weight Rear
LED AERODYNAMIC MARKER LIGHTS		
HEADLIGHTS ON WITH WIPERS, WITH DAYTIME RUNNING LIGHTS		
INTEGRAL STOP/TAIL/BACKUP LIGHTS WITH 7 EXTRA FEET OF WIRE MOUNTED AT END OF FRAME		
STANDARD FRONT TURN SIGNAL LAMPS		
DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS WITH LH AND RH REMOTE		
DOOR MOUNTED MIRRORS		
102 INCH EQUIPMENT WIDTH		
LH AND RH 8 INCH BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS		
STANDARD SIDE/REAR REFLECTORS		
RH AFTERTREATMENT SYSTEM CAB ACCESS WITH POLISHED DIAMOND PLATE COVER		
COMPOSITE EXTERIOR SUN VISOR	10	
63X14 INCH TINTED REAR WINDOW		
TINTED DOOR GLASS LH AND RH WITH TINTED OPERATING WING WINDOWS		
RH AND LH ELECTRIC POWERED WINDOWS, PASSENGER SWITCHES ON DOOR(S)	4	
TINTED WINDSHIELD		
2 GALLON WINDSHIELD WASHER RESERVOIR WITH FLUID LEVEL INDICATOR, FRAME MOUNTED		

Cab Interior

OPAL GRAY VINYL INTERIOR		
MOLDED PLASTIC DOOR PANEL WITHOUT VINYL INSERT WITH ALUMINUM KICKPLATE LOWER DOOR		
MOLDED PLASTIC DOOR PANEL WITHOUT VINYL INSERT WITH ALUMINUM KICKPLATE LOWER DOOR		
BLACK MATS WITH SINGLE INSULATION		
DASH MOUNTED ASH TRAYS AND LIGHTER		
FORWARD ROOF MOUNTED CONSOLE WITH UPPER STORAGE COMPARTMENTS WITHOUT NETTING		
CENTER STORAGE CONSOLE MOUNTED ON BACKWALL	20	
(2) CUP HOLDERS LH AND RH DASH		
GRAY/CHARCOAL WING DASH		



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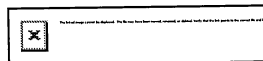


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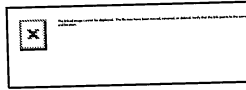
Description	Weight Front	Weight Rear
5 LB. FIRE EXTINGUISHER	10	
HEATER, DEFROSTER AND AIR CONDITIONER		
STANDARD HVAC DUCTING		
MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH		
STANDARD HEATER PLUMBING		
DENSO HEAVY DUTY AIR CONDITIONER COMPRESSOR		
BINARY CONTROL, R-134A		
PREMIUM INSULATION		
SOLID-STATE CIRCUIT PROTECTION AND FUSES		
12V NEGATIVE GROUND ELECTRICAL SYSTEM		
DOME DOOR ACTIVATED LH AND RH, DUAL READING LIGHTS, FORWARD CAB ROOF		
LH AND RH ELECTRIC DOOR LOCKS		
(1) 12 VOLT POWER SUPPLY IN DASH		
TRIANGULAR REFLECTORS WITHOUT FLARES	10	
PREMIUM HIGH BACK AIR SUSPENSION DRIVER SEAT WITH 3 CHAMBER AIR LUMBAR, INTEGRATED CUSHION EXTENSION, FORWARD AND REAR CUSHION TILT, ADJUSTABLE SHOCK ABSORBER	70	
BASIC HIGH BACK NON-SUSPENSION TOOL BOX PASSENGER SEAT		
DUAL DRIVER SEAT ARMRESTS, NO PASSENGER SEAT ARMRESTS	4	
LH AND RH INTEGRAL DOOR PANEL ARMRESTS		
BLACK CORDURA PLUS CLOTH DRIVER SEAT COVER		
BLACK CORDURA PLUS CLOTH PASSENGER SEAT COVER		
HIGH VISIBILITY ORANGE SEAT BELTS		
ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN	10	
4-SPOKE 18 INCH (450MM) STEERING WHEEL		
DRIVER AND PASSENGER INTERIOR SUN VISORS		

Instruments & Controls

WOODGRAIN DRIVER INSTRUMENT PANEL
 WOODGRAIN CENTER INSTRUMENT PANEL
 BLACK GAUGE BEZELS

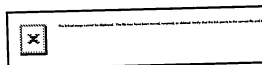


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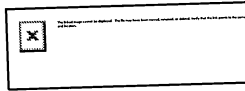


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Description	Weight Front	Weight Rear
LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM		
2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES		
INTAKE MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS		
97 DB BACKUP ALARM		3
ELECTRONIC CRUISE CONTROL WITH SWITCHES ON AUXILIARY GAUGE PANEL (B DASH PANEL)		
KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY WITH ECM STARTER LOCKOUT		
ICU3S, 132X48 DISPLAY WITH DIAGNOSTICS, 28 LED WARNING LAMPS AND DATA LINKED		
HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH		
2 INCH ELECTRIC FUEL GAUGE		
EMISSIONS LIMITED IDLE ADJUST		
ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE		
2 INCH TRANSMISSION OIL TEMPERATURE GAUGE		
ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY		
CUSTOMER FURNISHED AND INSTALLED PTO CONTROLS		
ELECTRIC ENGINE OIL PRESSURE GAUGE		
OVERHEAD INSTRUMENT PANEL		
CUSTOMER FURNISHED DIN RADIO PACKAGE DASH MOUNTED RADIO	5	
(2) RADIO SPEAKERS IN CAB		
AM/FM ANTENNA MOUNTED ON FORWARD LH ROOF		
POWER AND GROUND WIRING PROVISION OVERHEAD		
CB WIRING ONLY TO ROOF/OVERHEAD CONSOLE; NO MOUNTING PROVISION		
ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER		
STANDARD VEHICLE SPEED SENSOR		
ELECTRONIC 3000 RPM TACHOMETER		



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Description	Weight Front	Weight Rear
VT-HU CONNECTIVITY PLATFORM HARDWARE 5 YEARS DETROIT CONNECT BASE PACKAGE (VIRTUAL TECHNICIAN, DETROIT CONNECT PORTAL ACCESS) FOR VT-HU CONNECTIVITY PLATFORM IGNITION SWITCH CONTROLLED ENGINE STOP TWO ON/OFF ROCKER SWITCHES IN THE DASH WITH INDICATOR LIGHTS AND WIRE ROUTED TO CHASSIS AT BACK OF CAB, LABEL OPT DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH ONE VALVE PARKING BRAKE SYSTEM WITH WARNING INDICATOR SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS		

Color

CAB COLOR A: L0006EB WHITE ELITE BC
 BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT
 SUNVISOR PAINTED SAME AS CAB COLOR A
 STANDARD E COAT/UNDERCOATING

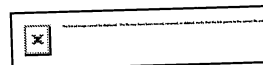
Certification / Compliance

U.S. FMVSS CERTIFICATION
 HD FLOOR MATS

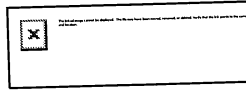
TOTAL VEHICLE SUMMARY

Weight Summary

	Weight Front	Weight Rear	Total Weight
Factory Weight ⁺	6657 lbs.	4282 lbs.	10939 lbs.
Total Weight⁺	6657 lbs.	4282 lbs.	10939 lbs.



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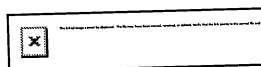


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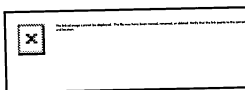
Body Transfer

REMOVE EXISTING TANK AND EQUIPMENT
INSTALL TANK ONTO NEW CHASSIS
INSTALL NEW PTO
INSTALL NEW AIR SYSTEM
INSTALL NEW PIPES UNDER TANK
INSTALL NEW WOOD SILLS
INSTALL NEW NEEDED U-BOLTS
TEST ALL PUMPING EQUIPMENT
TEST BOTTOM LOADING SYSTEM

(+) Weights shown are estimates only.
If weight is critical, contact Customer Application Engineering.



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GVWR

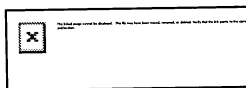
VEHICLE SPECIFICATIONS SUMMARY - GVWR

Model.....	M2106
Cab Size (829).....	106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Expected Front Axle(s) Load (lbs.).....	10000.0
Expected Pusher Axle(s) Load (lbs.).....	0.0
Expected Rear Axle(s) Load (lbs.).....	23000.0
Expected Tag Axle(s) Load (lbs.).....	0.0
Expected GVW (lbs.).....	33000
Expected GCW (lbs.).....	0.0
Front Axle (400).....	DETROIT DA-F-10.0-3 10,000# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE
Front Suspension (620).....	12,000# MONO TAPERLEAF FRONT SUSPENSION
Front Hubs (418).....	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS
Front Disc Wheels (502).....	ALCOA LVL ONE 88367X 22.5X8.25 10-HUB PILOT 5.79 INSET ALUMINUM DISC FRONT WHEELS
Front Tires (093).....	BF GOODRICH ST230 11R22.5 16 PLY RADIAL FRONT TIRES
Front Brakes (402).....	MERITOR 16.5X5 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
Steering Gear (536).....	TRW THP-60 POWER STEERING
Rear Axle (420).....	DETROIT DA-RS-23.0-4 23,000# R-SERIES SINGLE REAR AXLE
Rear Suspension (622).....	AIRLINER 23,000# REAR SUSPENSION WITH CHAIN CLEARANCE
Rear Hubs (450).....	CONMET PRESET PLUS PREMIUM IRON REAR HUBS
Rear Disc Wheels (505).....	ALCOA LVL ONE 88367X 22.5X8.25 10-HUB PILOT ALUMINUM DISC REAR WHEELS
Rear Tires (094).....	BF GOODRICH DR444 11R22.5 16 PLY RADIAL REAR TIRES
Rear Brakes (423).....	MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
Pusher / Tag Axle (443).....	NO PUSHER OR TAG AXLE
Pusher / Tag Suspension (626).....	NO PUSHER OR TAG SUSPENSION
Pusher / Tag Hubs (449).....	NO PUSHER OR TAG HUBS
Pusher/Tag Disc Wheels (509).....	NO PUSHER/TAG DISC WHEELS
Pusher / Tag Tires (095).....	NO PUSHER/TAG TIRES
Pusher / Tag Brakes (456).....	NO PUSHER/TAG BRAKES

TABLE SUMMARY - GVWR



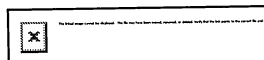
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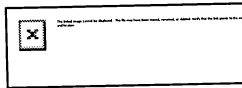
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	Front	Rear
Axle Component Weight Ratings		
Axles	10000	23000
Suspension	12000	23000
Hubs	14700	26000
Brakes	14702	23000
Wheels	14800	29600
Tires	13220	23360
Power Steering	13300	N/A
GAWR (per axle)	10000	23000
GAWR (per axle system)	10000	23000
Expected Load (per axle system)	10000	23000
Vehicle GVWR Summary		
Calculated GVWR	33000	
Expected GVWR	33000	
All weights displayed in pounds		

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.

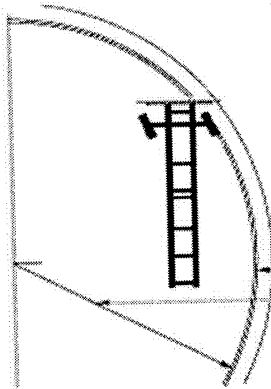


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TURNING RADIUS



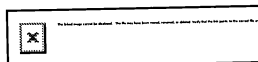
Turning radius graphic and data provided strictly for comparisons between model configurations. Weather, road surfaces, and tire treads affect the results. It is strongly suggested that actual vehicles be measured before constructing any roads/driveways using this information. For specific figures regarding your configuration, please contact your CAE representative.

	Dimensions	Tolerance
Wall to Wall Diameter (ft)	52.7	+/- 3.0
Curb to Curb Diameter (ft)	51.0	+/- 3.0
Turning Radius (ft)	25.0	+/- 1.5

VEHICLE SPECIFICATIONS SUMMARY - TURNING RADIUS

Model.....M2106
 Cab Size (829).....106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
 Wheelbase (545).....4725MM (186 INCH) WHEELBASE
 Front Tires (093).....BF GOODRICH ST230 11R22.5 16 PLY RADIAL FRONT TIRES
 Width (in).....11.1
 Front Axle (400).....DETROIT DA-F-10.0-3 10,000# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE
 Kingpin Intersection (in).....71.5
 Bumper (556).....THREE-PIECE 14 INCH CHROMED STEEL BUMPER WITH COLLAPSIBLE ENDS
 Width (in).....93.5
 Bumper Miter to Front Axle (in).....21.458
 Primary Steering Location (003).....LH PRIMARY STEERING LOCATION
 Steering Gear (536).....TRW THP-60 POWER STEERING
 Dual Steering Gear.....NONE
 Ram.....NONE
 Rear Axle (420).....DETROIT DA-RS-23.0-4 23,000# R-SERIES SINGLE REAR AXLE
 Axle Spacing (624).....NO AXLE SPACING

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.



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A proposal for
STATE LINE PROPANE, LLC

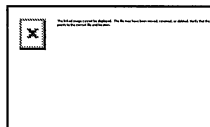
Prepared by
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Greg Martinotti

Sep 16, 2019

**Freightliner Custom Chassis Corp S2G
2-Compartment Tank Transfer**

Components shown may not reflect all spec'd options and are not to scale

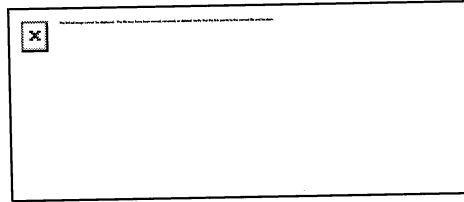
State Line Propane S2G



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Page 1 of 14

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Q U O T A T I O N

S2G CONVENTIONAL FULL CAB AND CHASSIS

SET BACK AXLE - TRUCK PSI 8.8 LITER LPG 270 HP @ 2600 RPM, 2800 GOV RPM, 565 LB/FT @ 1600 RPM ALLISON 2500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION DA-RS-23.0-4 23,000# R-SERIES SINGLE REAR AXLE 23,000# AIRLINER REAR SUSPENSION WITH CHAIN CLEARANCE DA-F-10.0-3 10,000# FF1 71.5 KPI/3.74DROP SINGLE FRONT AXLE	12,000# TAPERLEAF FRONT SUSPENSION 106" BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB 5175MM (204 INCH) WHEELBASE 5/16X3X10-1/8 INCH STEEL FRAME (7.94MMX257.2MM/0.312X10.13 INCH) 120KSI 3175MM (125 INCH) REAR FRAME OVERHANG 1/4" (6.35MM) C-CHANNEL PARTIAL INNER FRAME REINF AFT OF BOC XMBR TO FWD RR SUSP NO TAG AXLE
--	--

		PER UNIT		TOTAL
VEHICLE PRICE	TOTAL # OF UNITS (1)	\$	89,638	\$ 89,638
DEALER INSTALLED - OIL TANK		\$	21,500	\$ 21,500
CUSTOMER PRICE BEFORE TAX		\$	111,138	\$ 111,138
TAXES AND FEES				
TAXES AND FEES		\$	0	\$ 0
OTHER CHARGES		\$	0	\$ 0
TRADE-IN				
TRADE-IN ALLOWANCE		\$	(0)	\$ (0)
BALANCE DUE	(LOCAL CURRENCY)	\$	111,138	\$ 111,138

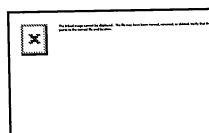
COMMENTS:

Projected delivery on ___ / ___ / ___ provided the order is received before ___ / ___ / ___.

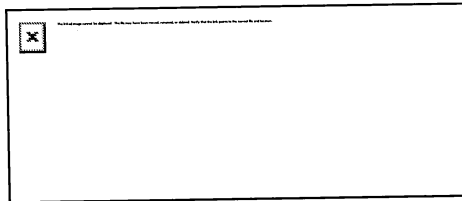
APPROVAL:

Please indicate your acceptance of this quotation by signing below:

Customer: X _____ Date: ___ / ___ / ___.



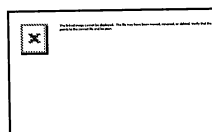
Prepared for:
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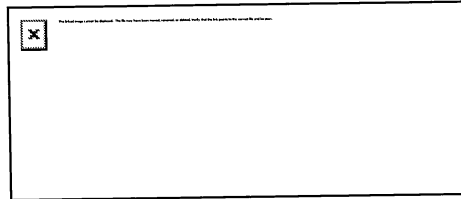
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S P E C I F I C A T I O N P R O P O S A L

Description	Weight Front	Weight Rear
Vehicle Configuration		
S2G CONVENTIONAL FULL CAB AND CHASSIS	5,700	4,300
SET BACK AXLE - TRUCK		
LH PRIMARY STEERING LOCATION		
Pre Specing		
5175MM (204 INCH) WHEELBASE (Cab to Axle 138")		
General Service		
EXPECTED FRONT AXLE(S) LOAD: 10000.0 lbs.		
EXPECTED REAR DRIVE AXLE(S) LOAD: 23000.0 lbs.		
EXPECTED GROSS VEHICLE WEIGHT CAPACITY: 33000.0 lbs.		
TRUCK CONFIGURATION		
PICKUP AND DELIVERY/SHORT HAUL SERVICE		
TANK BODY		
PETROLEUM BUSINESS SEGMENT		
LIQUID BULK COMMODITY		
DOMICILED, USA (EXCLUDING CALIFORNIA AND CARB OPT-IN STATES)		
TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS		
MAXIMUM 8% EXPECTED GRADE		
SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE		
Engine		
PSI 8.8 LITER LPG 270 HP @ 2600 RPM, 2800 GOV RPM, 565 LB/FT @ 1600 RPM		
Engine Controls & Parameters		
IGNITION SWITCH CONTROLLED ENGINE STOP		
2008 CARB EMISSION CERTIFICATION WITH IDLE SHUTDOWN DISABLED - EXEMPTED		
70 MPH ROAD SPEED LIMIT		
CC SPEED LIMIT SAME AS RSL		
NO IDLE SHUTDOWN CONFIGURATION		
PTO MODE ENGINE RPM LIMIT - 2300 RPM		



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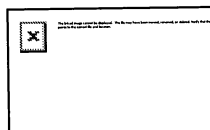


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Description	Weight Front	Weight Rear
PTO MODE BRK OVERRIDE-SVC BRK APPLIED OR PARK BRK NOT APPLIED		
PTO RPM W/CRUISE SET SW - 1200 RPM		
PTO RPM WITH CRUISE RESUME SWITCH - 1000 RPM		
PTO MODE CANCEL VEHICLE SPEED - 3 MPH		
PTO GOVERNOR RAMP RATE - 200 RPM PER SECOND		
ONE REMOTE PTO SPEED		
REMOTE PTO SPEED 1 SETTING - 1050 RPM		
MAXIMUM ENGINE RPM = 2500 ON VSS FAILURE		

Engine Equipment

700 SQ-IN ALUMINUM RADIATOR
 ENGINE MOUNTED OIL CHECK AND FILL
 5W-30 WEIGHT ENGINE OIL
 DONALDSON 1-STAGE AIR CLEANER
 FRONTAL AIR INTAKE
 AIR INTAKE PIPING - CLNR TO ENGINE
 AIR CLEANER MOUNTED ON FIREWALL
 DR 12V 160 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR
 (2) ALLIANCE MODEL 1131, GROUP 31, 12V MAINTENANCE FREE 1900 CCA THREADED STUD BATTERIES
 BATTERY BOX FRAME MOUNTED
 SINGLE BATTERY BOX FRAME MOUNTED LH SIDE UNDER CAB
 FRAME GROUND RETURN FOR BATTERY CABLES
 PLASTIC BATTERY BOX COVER
 COLE HERSEE BATTERY SHUTOFF SWITCH, BATTERY BOX MOUNTED
 BW SERIES 550 13.2 CFM AIR COMPRESSOR
 STD MECH AIR COMP GOV
 STEEL AIR COMPRESSOR DISCHARGE LINE
 ELECTRONIC ENGINE INTEGRAL WARNING AND DERATE PROTECTION SYSTEM
 TRANS GRADE BRK W/ON/OFF DASH SWITCH W/SVC BRK
 ENGINE AFTERTREATMENT WIRING, OXYGEN SENSOR
 SINGLE HORIZONTAL MUFFLER



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Description	Weight Front	Weight Rear
HORIZONTAL MUFFLER INBOARD MOUNTED		
NO DIESEL EXHAUST FLUID TANK		
NO SCR CATALYST		
NO SCR CATALYST MTG		
EXHAUST MITIGATION DEVICE FTL 4" ID SLIP-FIT		
RH HORIZONTAL TAILPIPE, EXIT AFT OF REAR TIRES		
NON-PERFORATED MUFFLER/TAILPIPE SHIELD		
BORG WARNER VISCOUS FAN DRIVE		
FULL FLOW OIL FILTER		
REMOTE MOUNTED SURGE TANK		
ANTIFREEZE TO -34F, OAT (NITRITE & SILICATE FREE) EXTENDED LIFE COOLANT		
GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT		
CONSTANT TORQUE BREEZE CLAMPS ON 1" IN DIA AND GREATER, SS CLAMPS LESS THAN 1"		
LOWER RADIATOR GUARD		
ALUMINUM FLYWHEEL HOUSING		
DELCO 12V PG260N STARTER		

Transmission

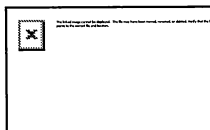
ALLISON 2500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION

Transmission Controls & Parameters

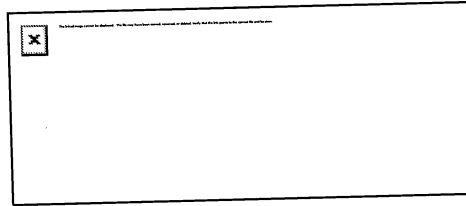
T-HANDLE CABLE SHIFT CONTROL WITHOUT PARK BRAKE POSITION
 VEHICLE INTERFACE WIRING WITH BODY BUILDER CONNECTOR MOUNTED BOC
 PKG 371 - 1K/2KPTS/HS/RDS - 5TH GEN
 ALLISON TRANS - SEM/LRTP REQ
 TRANS PROG-ENABLED
 6, 4, 3, 2 - D, 4, 3, L -1K/2K PRIMARY GEARS
 RANGE INDICATION, PARK, NEUT
 SECONDARY MODE INPUT - MODE SWITCH, FOR 1000/2000 PRODUCT FAMILIES ONLY
 MAX PTO ENG SPD OPERATION, 1800
 MAX PTO O/P SPD ENGMNT, 800

Transmission Equipment

WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK



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Description	Weight Front	Weight Rear
TRANSMISSION OIL CHECK AND FILL SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)		

Front Axle & Equipment

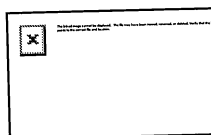
DA-F-10.0-3 10,000# FF1 71.5 KPI/3.74DROPS
 SINGLE FRONT AXLE
 NON-ASBESTOS FRONT BRAKE LINING
 MERITOR 16.5X5 Q+ CAST SPIDER CAM FRONT
 BRAKES, DOUBLE ANCHOR, FABRICATED
 SHOES
 HALDEX LONGSTROKE FRONT BRAKE
 CHAMBERS
 MERITOR AUTOMATIC FRONT SLACK
 ADJUSTERS
 FRONT BRAKE DUST SHIELDS
 CONMET CAST IRON FRONT BRAKE DRUMS
 CONMET IRON FRONT HUBS
 SKF SCOTSEAL CLASSIC FRONT OIL SEALS
 VENTED FRONT HUB CAPS W/WINDOW,
 CENTER AND SIDE PLUGS - OIL
 SYNTHETIC 75W-90 FRONT AXLE LUBE
 STANDARD SPINDLE NUTS FOR ALL AXLES
 STANDARD CUPS AND CONES (WHEEL
 BEARINGS) FRONT AND REAR
 TRW THP-60 POWER STEERING
 POWER STEERING PUMP
 2 QUART SEE THROUGH POWER STEERING
 RESERVOIR
 OIL/AIR POWER STEERING COOLER

Front Suspension

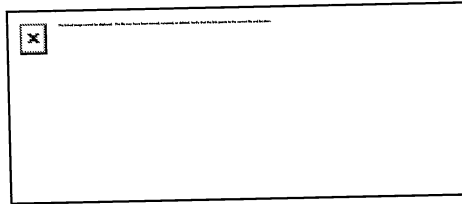
12,000# TAPERLEAF FRONT SUSPENSION
 MAINTENANCE FREE RUBBER BUSHINGS -
 FRONT SUSPENSION
 SACHS FRONT SHOCK ABSORBERS

Rear Axle & Equipment

DA-RS-23.0-4 23,000# R-SERIES SINGLE REAR
 AXLE
 6.14 REAR AXLE RATIO
 IRON REAR AXLE CARRIER WITH STANDARD
 AXLE HOUSING
 1710 DANA SPICER MAIN DRIVELINE W/HALF
 ROUND YOKES & REDUCED SIZE BEARING



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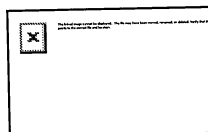
Description	Weight Front	Weight Rear
SYNTHETIC 75W-90 REAR AXLE LUBE		
DRIVER CONTROLLED TRACTION DIFFERENTIAL - SINGLE REAR AXLE		
MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FAB'D SHOES		
NON-ASBESTOS REAR BRAKE LINING		
CAM SUPPORT BRACKETS		
CONMET CAST IRON REAR BRAKE DRUMS		
REAR BRAKE DUST SHIELDS		
SKF SCOTSEAL CLASSIC REAR OIL SEALS		
NO DRIVELINE PARKING BRAKE		
HALDEX GOLDSEAL LONGSTROKE 1-DRIVE AXLE SPRING PARKING CHAMBERS		
MERITOR AUTOMATIC REAR SLACK ADJUSTERS		

Rear Suspension

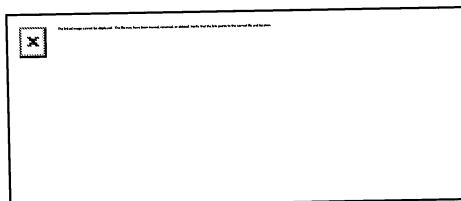
23,000# AIRLINER REAR SUSPENSION WITH CHAIN CLEARANCE
 AIRLINER HIGH POSITION RIDE HEIGHT
 MANUAL DUMP VALVE FOR AIR SUSPENSION W/INDICATOR LIGHT, W/O GAUGE
 DUAL AIR REAR SUSPENSION LEVELING VALVES
 REAR AIR SUSPENSION DUMP VALVE AUTOFILL W/IGNITION OFF OR >5 MPH W/IND LIGHT
 (1) DCDL REAR VLV FOR SINGLE DRIVE AXLE
 REAR SWAYBAR
 SACHS REAR SHOCK ABSORBERS

Brake System

AIR BRAKE PACKAGE
 WABCO 4S/4M ABS WITHOUT TRACTION CONTROL
 REINFORCED NYLON, FABRIC BRAID & WIRE BRAID CHASSIS AIR LINES
 FIBER BRAID HOSE FRONT SERVICE BRAKE
 FIBER BRAID HOSE REAR SERVICE BRAKE
 FIBER BRAID PARKING BRAKE HOSE
 STANDARD BRAKE SYSTEM VALVES
 STD U.S. FRONT BRAKE VALVE
 RELAY VALVE W/ 5-8 PSI CRACK PRESSURE NO REAR PROPORTIONING VALVE

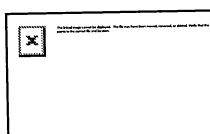


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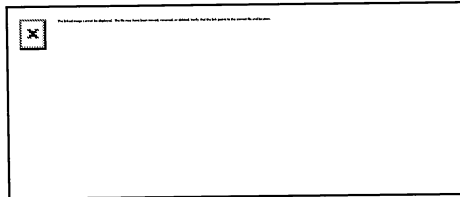


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Description	Weight Front	Weight Rear
STANDARD AIR SYSTEM PRESSURE PROTECTION		
STANDARD AIR MANAGEMENT UNIT		
BW AD-9 BRAKE LINE AIR DRYER WITH HEATER		
AIR DRYER MTD UNDER HOOD		
STEEL AIR BRAKE RESERVOIRS MOUNTED IN CAB ENTRY STEPS&UNDER BATTERY BOX		
PULL CABLES ON ALL AIR RESERVOIR(S)		
Wheelbase & Frame		
5175MM (204 INCH) WHEELBASE		
5/16X3X10-1/8 INCH STEEL FRAME (7.94MMX257.2MM/0.312X10.13 INCH) 120KSI		
1/4" (6.35MM) C-CHANNEL PARTIAL INNER FRAME REINF AFT OF BOC XMBR TO FWD RR SUSP		
3175MM (125 INCH) REAR FRAME OVERHANG		
SQUARE END OF FRAME		
FRONT CLOSING CROSSMEMBER		
STANDARD WEIGHT ENGINE CROSSMEMBER		
STANDARD MIDSHIP #1 CROSSMEMBER(S)		
STANDARD REARMOST CROSSMEMBER		
STANDARD SUSPENSION CROSSMEMBER		
Chassis Equipment		
THREE-PIECE 14 INCH CHROMED STEEL BUMPER WITH COLLAPSIBLE ENDS		
FRONT TOW HOOKS - FRAME MOUNTED		
BUMPER MOUNTING FOR SINGLE LICENSE PLATE		
FENDER & FRONT OF HOOD MOUNTED FRONT MUDFLAPS		
ZINC PLATED HEX HEADED FRAME FASTENERS		
Fuel Tanks		
60 GAL 16"X97" LPG FUEL TANK - RH		
(LPG) LIQUID PROPANE GAS FUEL		
RH LPG TANK AFT OF FRONT AXLE; FWD OF REAR AXLE W/PROTECTIVE CAGE		
RH SIDEFILL FUEL TANK CAP		
CYLINDRICAL FUEL TANK(S)		
LPG FUEL LINES; FILL, SUPPLY & RETURN		
FLEXIBLE STEEL WIRE REINFORCED PROPANE OR NATURAL GAS NYLON FUEL HOSE		

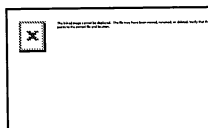


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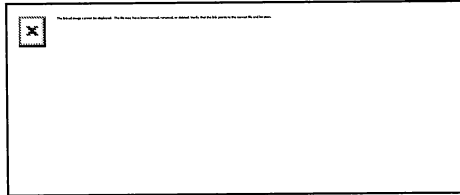


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Tires	Description	Weight Front	Weight Rear
	MICHELIN XZE2 11R22.5 16 PLY RADIAL FRONT TIRES TIRE QTY - FRONT AXLE: 2 MICHELIN X MULTI D 11R22.5 16 PLY RADIAL REAR TIRES (NORTH AMERICAN ONLY) TIRE QTY - REAR AXLE: 4 ALL TIRE/DISC WHEEL STATIC BALANCING W/LEAD-FREE WEIGHTS		
Hubs	CONMET IRON REAR HUBS		
Wheels	ALCOA LVL ONE 88367X 22.5X8.25 10-HP ALUMINUM DISC FRONT WHEELS ALCOA BRIGHT FINISH FRT WHLS W/BRIGHT WHL COVERS ALCOA LVL ONE 88367X 22.5X8.25 10-HP ALUMINUM DISC REAR WHEELS ALCOA BRIGHT FINISH REAR WHLS W/BRIGHT WHL COVERS FRONT WHEEL MOUNTING NUTS REAR WHEEL MOUNTING NUTS NYLON WHEEL GUARDS, FRONT & REAR ALL INTERFACES		
Cab Exterior	106" BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB LH CAB DOOR(S) WITH 70 DEGREE DOOR STOP RH CAB DOOR(S) WITH 70 DEGREE DOOR STOP LH & RH CAB DOOR LATCHES WITH ELECTRIC DOOR LOCKS AIR CAB MOUNTS POLISHED SS STEP FINISH LH/RH GRAB HANDLES FIBERGLASS HOOD STANDARD DUTY HOOD MOUNTING FREIGHTLINER FRONT NAMEPLATE TUNNEL/FIREWALL LINER HOOD MOUNTED CHROMED PLASTIC GRILLE NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE		



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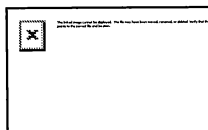


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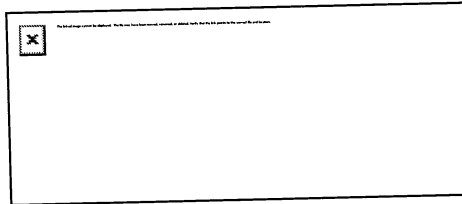
Description	Weight Front	Weight Rear
DUAL 26" RECTANGULAR POLISHED ALUMINUM AIR HORNS ROOF MOUNTED		
DUAL ELECTRIC HORNS		
DUAL HORN SHIELDS		
DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME		
INTEGRAL HEADLIGHT/MARKER ASSEMBLY WITH CHROME BEZEL		
LED AERODYNAMIC MARKER LIGHTS		
DAYTIME RUNNING LIGHTS ON FRONT TURN LAMPS WITH ENGINE RUNNING		
OMIT STOP/TAIL/BU LTS & PROVIDE WRG W/SEP STOP/TURN WIRES TO 4' BEYOND EOF		
STANDARD TURN SIGNAL WIRING		
STANDARD FRONT TURN SIGNAL LAMPS		
DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS WITH LH AND RH REMOTE		
DOOR MOUNTED MIRRORS		
LH AND RH 8" BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS		
STANDARD SIDE/REAR REFLECTORS		
DUAL LEVEL CAB ENTRY STEPS ON BOTH SIDES		
63"X14" TINTED REAR WINDOW		
TINTED DOOR GLASS LH AND RH WITH TINTED NON-OPERATING WING WINDOWS		
LH & RH ELECTRIC WINDOW REGULATOR		
1-PIECE TINTED ROPED-IN WINDSHIELD		
1 GALLON WINDSHIELD WASHER RESERVOIR		
COMPOSITE EXTERIOR SUN VISOR		
UPGRADED CHASSIS MULTIPLEXING UNIT		

Cab Interior

OPAL GRAY VINYL INTERIOR
 BLACK MATS WITH SINGLE INSULATION
 DASH MOUNTED ASH TRAY(S) WITHOUT
 LIGHTER
 FORWARD ROOF MOUNTED CONSOLE WITH
 UPPER STORAGE COMPARTMENTS WITHOUT
 NETTING
 IN DASH STORAGE BIN

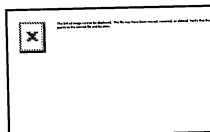


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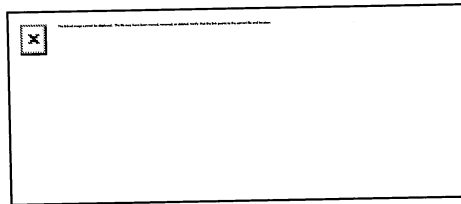


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Description	Weight Front	Weight Rear
CENTER STORAGE CONSOLE MOUNTED ON BACKWALL		
(2) CUP HOLDERS LH AND RH DASH		
GRAY/CHARCOAL FLAT DASH		
STANDARD WIRING		
2-1/2 LB. FIRE EXTINGUISHER		
SANDEN COMPACT AIR CONDITIONER COMPRESSOR		
HEATER, DEFROSTER AND AIR CONDITIONER		
STANDARD HVAC DUCTING WITH SNOW SHIELD FOR FRESH AIR INTAKE		
MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH		
RADIATOR MOUNTED AIR CONDITIONER CONDENSER		
BINARY CONTROL, R-134A		
MANIFOLD PLUMBING WITH COMBINED SUPPLY AND RETURN SHUTOFF TO DASH ONLY		
PREMIUM INSULATION		
SOLID-STATE CIRCUIT PROTECTION, PDMS W/FUSES & BRKRS, PDC W/FUSES & BRKR		
12V NEGATIVE GROUND ELECTRICAL SYSTEM WITH UNMOUNTED BASIC WIRING SCHEMATIC		
UPGRADED BULKHEAD MULTIPLEXING UNIT		
STANDARD BRAKE WIRING		
LH/RH DOOR ACTIVATED DOME LT W/3-WAY SW & COURTESY LIGHTS MOUNTED ON ALL DOORS		
STEPWELL LAMP ON WITH DOOR(S) OPEN		
TRIANGULAR REFLECTORS W/O FLARES		
PREM HB AIR SUSP ST W/3 CHMBR AIR LMBR, INT CUSH EXT, FWD&RR TILT, ADJ SHK		
BASIC HB NON SUSP PASS SEAT		
DUAL DRIVER SEAT ARMRESTS, NO PASSENGER SEAT ARMRESTS		
LH AND RH INTEGRAL DOOR PANEL ARMRESTS		
BLACK CORDURA PLUS CLOTH DRIVER SEAT COVER		
BLACK CORDURA PLUS CLOTH PASSENGER SEAT COVER		
3 POINT FIXED D-RING RETRACTOR DRIVER AND PASSENGER SEAT BELTS		
MOLDED PLASTIC DOOR PANEL		



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 GRANBY, CT 06035
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Prepared by:
 Greg Martinotti
 FREIGHTLINER OF HARTFORD
 222 ROBERTS STREET
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Description	Weight Front	Weight Rear
MOLDED PLASTIC DOOR PANEL		
COAT HOOK(S) IN CAB		
ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN		
4-SPOKE 18 INCH (450MM) STEERING WHEEL		
DRIVER AND PASSENGER INTERIOR SUN VISORS		

Instruments & Controls

NO CLUTCH PEDAL W/NON-ADJUSTABLE
 SUSPENDED BRAKE AND ACCELERATOR
 PEDALS

ELECTRONIC ACCELERATOR CONTROL

GRAY DRIVER INSTRUMENT PANEL

GRAY CENTER INSTRUMENT PANEL

BLACK GAUGE BEZELS

DRIVER MESSAGE CENTER W/LCD DISPLAY,24
 WARNING LAMPS, DATA LINKED, AMI

ELECTRONIC MPH SPEEDOMETER WITH
 SECONDARY KPH SCALE, WITHOUT
 ODOMETER

ELECTRONIC TACHOMETER 6000 RPM

2 INCH PRIMARY AND SECONDARY AIR
 PRESSURE GAUGES

ELECTRIC ENGINE OIL PRESSURE GAUGE

ELECTRICAL ENGINE COOLANT TEMPERATURE
 GAUGE

DIGITAL VOLTAGE DISPLAY INTEGRAL WITH
 DRIVER DISPLAY

2 INCH ELECTRIC FUEL GAUGE

DIGITAL TRANS OIL TEMP INDRIVER DISPLAY

LOW AIR PRESSURE LIGHT AND BUZZER

ENGINE AND TRIP HOUR METERS INTEGRAL
 WITHIN DRIVER DISPLAY

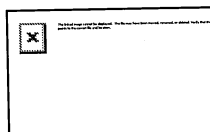
STANDARD VEHICLE SPEED SENSOR

INTAKE MOUNTED AIR RESTRICTION
 INDICATOR WITHOUT GRADUATIONS

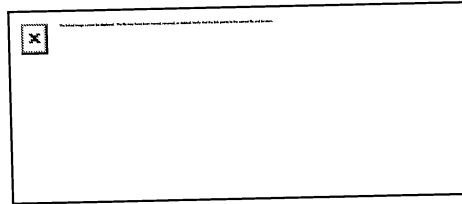
87 DB TO 112 DB SELF-ADJUSTING BACKUP
 ALARM

ELECTRONIC CRUISE CONTROL WITH
 SWITCHES IN LH SWITCH PANEL

KEY OPERATED IGN SW & INTEGRAL START
 POSITION; 4 POSITION OFF/RUN/START/ACC



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Description	Weight Front	Weight Rear
DIAGNOSTIC INTERFACE CONNECTOR, 9 PIN, SAE J1939, LOCATED BELOW DASH ENGINE REMOTE INTERFACE WITH PRESET FAST IDLE CUSTOMER FURNISHED DIN RADIO PACKAGE DASH MOUNTED RADIO (2) RADIO SPEAKERS IN CAB AM/FM ANTENNA MOUNTED ON LH SIDE MIRROR FOUR ON/OFF RKR SW IN DASH W/IND LTS & WIRE RTD TO CH BOC, LABEL OPT SINGLE ELECTRIC WINDSHIELD WIPER MOTOR W/DELAY AND ARCTIC TYPE BLADES MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH ONE VALVE PARKING BRAKE SYSTEM WITH WARNING INDICATOR SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS		

Design

PAINT: ONE SOLID COLOR
 PAINT CAB ONE SOLID COLOR

Color

CAB COLOR A: L0006EB WHITE ELITE BC
 GRILLE: SILVER N3388EA ELITE SS
 CHASSIS PAINT: VENDOR BLACK
 SUNVISOR PAINTED SAME AS CAB COLOR A

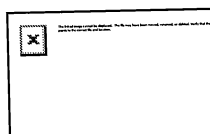
Basic Chassis Warranty

FREIGHTLINER CUSTOM CHASSIS
 CORPORATION BASIC CHASSIS WARRANTY

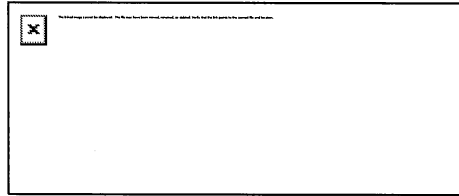
Certification / Compliance

U.S. FMVSS CERTIFICATION

TOTAL VEHICLE SUMMARY



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Description	Weight Front	Weight Rear
DIAGNOSTIC INTERFACE CONNECTOR, 9 PIN, SAE J1939, LOCATED BELOW DASH		
ENGINE REMOTE INTERFACE WITH PRESET FAST IDLE		
CUSTOMER FURNISHED DIN RADIO PACKAGE		
DASH MOUNTED RADIO		
(2) RADIO SPEAKERS IN CAB		
AM/FM ANTENNA MOUNTED ON LH SIDE		
MIRROR		
FOUR ON/OFF RKR SW IN DASH W/IND LTS & WIRE RTD TO CH BOC, LABEL OPT		
SINGLE ELECTRIC WINDSHIELD WIPER MOTOR W/DELAY AND ARCTIC TYPE BLADES		
MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH		
ONE VALVE PARKING BRAKE SYSTEM WITH WARNING INDICATOR		
SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE		
INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS		

Design

PAINT: ONE SOLID COLOR
 PAINT CAB ONE SOLID COLOR

Color

CAB COLOR A: L0006EB WHITE ELITE BC
 GRILLE: SILVER N3388EA ELITE SS
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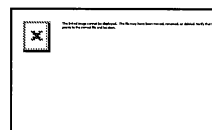
Basic Chassis Warranty

FREIGHTLINER CUSTOM CHASSIS
 CORPORATION BASIC CHASSIS WARRANTY

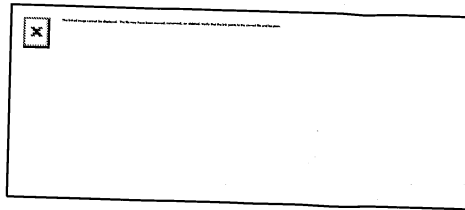
Certification / Compliance

U.S. FMVSS CERTIFICATION

TOTAL VEHICLE SUMMARY



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Weight Summary

	Weight Front	Weight Rear	Total Weight
Factory Weight ⁺	5700 lbs.	4300 lbs.	10000 lbs.
Total Weight ⁺	5700 lbs.	4300 lbs.	10000 lbs.

Body Proposal

- REMOVE EXISTING TANK AND EQUIPMENT
- INSTALL TANK ONTO NEW CHASSIS
- INSTALL NEW PTO
- INSTALL NEW AIR AYATEM
- INSTALL NEW PIPES UNDER TANK
- INSTALL NEW WOOD SILLS
- INSTALL NEW NEEDED U-BOLTS
- TEST ALL PUMPING EQUIPMENT
- TEST BOTTOM LOADING SYSTEM

(+) Weights shown are estimates only.

If weight is critical, contact Customer Application Engineering.

(***) All cost increases for major components (Engines, Transmissions, Axles, Front and Rear Tires) and government mandated requirements, tariffs, and raw material surcharges will be passed through and added to factory invoices.

