Customer Proposal

Prepared by:
Todd Woodhouse
Office: 913-782-0881
Email: twoodhouse@olathefleet.com

Date: 10/12/2017
Vehicle: 2018 F-550 Chassis XLT
4x4 SD Regular Cab 193" WB DRW
Standard Equipment & Specs

Dimensions

Powertrain
288hp 6.8L SOHC 30 valve V-10 engine with SMPI * Recommended fuel: regular unleaded * federal * TorqShift 6 speed automatic transmission with overdrive * Part-time * Fuel Economy Cty: N/A * Fuel Economy Highway: N/A

Suspension/Handling
Front Mono-beam non-independent suspension with anti-roll bar, HD shocks * Rear DANA M300 rigid axle leaf spring suspension with anti-roll bar, HD shocks * Firm ride Suspension * Hydraulic power-assist re-circulating ball Steering * Front and rear 19.5 x 6 argent steel wheels * LT225/70SR19.5 GBSW AS front and rear tires * Dual rear wheels

Body Exterior
2 doors * Driver and passenger power remote heated folding door mirrors with turn signal indicator * Turn signal indicator in mirrors * Black door mirrors * Chrome bumpers * Trailer harness * Clearcoat paint * Front and rear 19.5 x 6 wheels

Convenience
Manual air conditioning with air filter * Cruise control with steering wheel controls * Power front windows * Driver and passenger 1-touch up * Driver and passenger 1-touch down * Remote power door locks with 2 stage unlock and illuminated entry * Manual tilt steering wheel * Manual telescopic steering wheel * Day-night rearview mirror * 911 Assist emergency S.O.S * Wireless phone connectivlty * AppLink smart device integration * 2 1st row LCD monitors * Front cupholders * Dual visor mirrors * Driver and passenger door bins

Seats and Trim
Seating capacity of 3 * Front 40-20-40 split-bench seat * 4-way driver seat adjustment * Manual driver lumbar support * 4-way passenger seat adjustment * Centre front armrest with storage * Cloth seat upholstery * Metal-look instrument panel insert

Entertainment Features
SiriusXM AM/FM/Satellite radio with radio data system * Single CD player * MP3 decoder * Auxiliary audio input * SYNC external memory control * Steering wheel mounted radio controls * 5 speakers * Wireless streaming * Fixed antenna

Lighting, Visibility and Instrumentation
Halogen aero-composite headlights * Delay-off headlights * Fully automatic headlights * Variable intermittent front windshield wipers * Deep tinted windows * Front reading lights * Tachometer * Oil pressure gauge * Compass * Outside temperature display * Trip computer * Trip odometer

Safety and Security
4-wheel ABS brakes * Brake assist * 4-wheel disc brakes * Driveline traction control * Dual front impact airbag supplemental restraint system with passenger cancel * Dual seat mounted side impact airbag supplemental restraint system * Safety Canopy System curtain 1st row overhead airbag supplemental restraint system * Remote activated perimeter/approach lighting * Power remote door locks with 2 stage unlock and panic alarm * Security system with SecuriLock immobilizer * MyKey restricted driving mode * Manually adjustable front head restraints with tilt

Dimensions
General Weights

<table>
<thead>
<tr>
<th></th>
<th>Curb</th>
<th>GVWR</th>
<th>Dims</th>
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</thead>
<tbody>
<tr>
<td>Front GAWR</td>
<td>6000 lbs.</td>
<td>Rear GAWR</td>
<td>13660 lbs.</td>
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<tr>
<td>Payload</td>
<td>10810 lbs.</td>
<td>Front curb weight</td>
<td>4160 lbs.</td>
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<tr>
<td>Rear curb weight</td>
<td>3023 lbs.</td>
<td>Front axle capacity</td>
<td>7000 lbs.</td>
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<tr>
<td>Rear axle capacity</td>
<td>13680 lbs.</td>
<td>Front spring rating</td>
<td>6000 lbs.</td>
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</table>

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Standard Equipment & Specs (cont'd)

Rear spring rating ........................................ 13660 lbs.
Rear tire/wheel capacity ................................. 15000 lbs.

Front tire/wheel capacity ................................. 7500 lbs.

Trailering Type

Harness ......................................................... Yes
Trailer sway control ........................................ Yes

Brake controller ........................................... Yes

General Trailering

5th-wheel towing capacity ............................... 19800 lbs.
GCWR .......................................................... 28000 lbs.

Towing capacity ............................................ 18500 lbs.

Fuel Tank type

Capacity ...................................................... 40 gal.

Off Road

Min ground clearance ...................................... 8 "

Interior cargo

Cargo volume ............................................... 11.6 cu.ft.

Maximum cargo volume ................................... 11.6 cu.ft.

Rear Frame

Height loaded ............................................... 29 "
Height unloaded .......................................... 34 "

Powertrain

Engine Type

Block material .............................................. Iron
Head material ............................................... Aluminum
Injection ...................................................... Sequential MPI
Orientation ................................................ Longitudinal
Valves per cylinder ..................................... 3

Cylinders .................................................... V-10
Ignition ...................................................... Electronic
Lowers ......................................................... 6.8L
Recommended fuel type ................................ Regular unleaded
Valvetrain ................................................... SOHC

Engine Spec

Bore .......................................................... 3.55"
Displacement ............................................... 415 cu.in.

Compression ratio ........................................ 9.2:1
Stroke ....................................................... 4.16"

Engine Power

Output ....................................................... 288 HP @ 4,000 RPM

Torque ...................................................... 424 ft-lb @ 3,000 RPM

Alternator

Type .......................................................... HD

Amps ......................................................... 240

Battery

Amp hours .................................................. 78
Run down protection .................................... Yes

Cold cranking amps ...................................... 750
Type ......................................................... HD

Transmission

Electronic control ........................................ Yes
Overdrive .................................................... Yes

Lock-up ...................................................... Yes
Speed ....................................................... 6

Type .......................................................... Automatic

Transmission Gear Ratios

1st .......................................................... 3.974
3rd .......................................................... 1.516
5th .......................................................... 0.858
Reverse Gear ratios .................................... 3.128

2nd .......................................................... 2.318
4th .......................................................... 1.149
6th .......................................................... 0.674

Transmission Torque Converter

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Standard Equipment & Specs (cont'd)

<table>
<thead>
<tr>
<th>Feature</th>
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<tr>
<td>Stall ratio</td>
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<td>Driver selectable mode</td>
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<tr>
<td>Oil cooler</td>
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<td>Sequential shift control</td>
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<tr>
<td>Drive Type</td>
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<tr>
<td>Four-wheel</td>
<td>Type</td>
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Driveability

Brakes

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<td>Brake Assistance</td>
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<td>Brake assist</td>
<td>Yes</td>
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<tr>
<td>Suspension Control</td>
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<td>Ride</td>
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<td>Front Shocks</td>
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<td>Rear Suspension</td>
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<tr>
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<td>Activation</td>
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<td>Type</td>
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Standard Equipment & Specs (cont'd)

Steering Specs
# of wheels .................................................. 2

Exterior
Front Wheels
Diameter .................................................. 19.5"
Width .................................................. 6.00"

Rear Wheels
Diameter .................................................. 19.5"
Dual .................................................. Yes
Width .................................................. 6.00"

Front and Rear Wheels
Appearance .................................................. Argent
Material .................................................. Steel

Front Tires
Aspect .................................................. 70
Sidewalls .................................................. BSW
Tread .................................................. AS
Width .................................................. 225mm
RPM .................................................. 647
Diameter .................................................. 19.5"
Speed .................................................. S
Type .................................................. LT
LT load rating .................................................. G

Rear Tires
Aspect .................................................. 70
Sidewalls .................................................. BSW
Tread .................................................. AS
Width .................................................. 225mm
RPM .................................................. 647
Diameter .................................................. 19.5"
Speed .................................................. S
Type .................................................. LT
LT load rating .................................................. G

Wheels
Front track .................................................. 74.8"
Turning radius .................................................. 27.3'
Rear track .................................................. 74.0"
Wheelbase .................................................. 193.0"

Body Features
Front license plate bracket .................................. Yes
Body material .................................................. Aluminum
Front splash guards .................................................. Yes
Side impact beams .................................................. Yes

Body Doors
Door count .................................................. 2

Exterior Dimensions
Length .................................................. 278.8"
Body height .................................................. 81.6"
Axle to end of frame .................................................. 47.2"
Frame yield strength (psi) .................................................. 50000.0
Front bumper to Front axle .................................................. 38.3"
Front bumper to back of cab .................................................. 123.7"
Body width .................................................. 80.0"
Cab to axle .................................................. 108.0"
Frame section modulus .................................................. 12.7cu.in.
Frame rail width .................................................. 34.2"
Cab to end of frame .................................................. 155.2"

Safety
Airbags
Driver front-impact .................................................. Yes
Overhead Safety Canopy System curtain 1st row ..................................................
Passenger side-impact .................................................. Seat mounted
Driver side-impact .................................................. Seat mounted
Passenger front-impact .................................................. Cancellable

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Standard Equipment & Specs (cont'd)

Seatbelt
Height adjustable ........................................ Front

Security
Im mobilizer ............................................. SecuriLock
Restricted driving mode ................................. MyKey

Panic alarm .................................................. Yes

Seating
Passenger Capacity
Capacity ...................................................... 3

Front Seats
Split .......................................................... 40-20-40
Type ......................................................... Split-bench

Driver Seat
Fore/aft ..................................................... Manual
Reclining ..................................................... Manual
Way direction control ....................................... 4
Lumbar support ............................................. Manual

Passenger seat
Fore/aft ..................................................... Manual
Reclining ..................................................... Manual
Way direction control ....................................... 4

Front Head Restraint
Control ...................................................... Manual
Type ......................................................... W/tilt

Front Armrest
Centre ....................................................... Yes
Storage ....................................................... Yes

Front Seat Trim
Material ..................................................... Cloth
Back material ............................................... Carpet

Convenience
AC And Heat Type
Air conditioning ........................................ Manual
Air filter ..................................................... Yes

Audio System
CD ............................................................. Single
Auxiliary audio input ...................................... Yes
MP3 decoder ................................................ MP3 decoder
Radio data system ......................................... Yes
Radio ........................................................ Regular
Seek-scan .................................................... Yes
External memory control ................................... SYNC

Audio Speakers
Speaker type ................................................ Regular
Speakers ..................................................... 5

Audio Controls
Speed sensitive volume .................................... Yes
Steering wheel controls ................................... Yes
Voice activation .......................................... Yes
Wireless streaming ....................................... Bluetooth yes

Audio Antenna
Type ......................................................... Fixed

LCD Monitors
1st row ..................................................... 2
Primary monitor size (inches) ......................... 4.2

Cruise Control
Standard Equipment & Specs (cont'd)

Cruise control . With steering wheel controls

Convenience Features
- Retained accessory power . Yes
- Emergency S.O.S . 911 Assist
- Smart device integration . App link
- 12V DC power outlet . 3
- Wireless phone connectivity . Bluetooth

Door Lock Activation
- Type . Power with 2 stage unlock
- Integrated key/remote . Yes
- Remote . Keyfob (all doors)

Instrumentation Type
- Display . Analog

Instrumentation Gauges
- Tachometer . Yes
- Engine temperature . Yes
- Engine hour meter . Yes
- Oil pressure . Yes
- Transmission fluid temp . Yes

Instrumentation Warnings
- Oil pressure . Yes
- Battery . Yes
- Key . Yes
- Door ajar . Yes
- Brake fluid . Yes
- Engine temperature . Yes
- Lights on . Yes
- Low fuel . Yes
- Service interval . Yes

Instrumentation Displays
- Clock . Yes
- Exterior temp . Yes
- Compass . Yes
- Systems monitor . Yes
- Trip computer . Yes
- Trip odometer . Yes

Steering Wheel Type
- Material . Urethane
- Telescoping . Manual
- Tilting . Manual

Front Side Windows
- Window 1st row activation . Power

Window Features
- 1-touch down . Driver and passenger
- Tinted . Deep
- 1-touch up . Driver and passenger

Front Windshield
- Wiper . Variable intermittent

Rear Windshield
- Window . Fixed

Interior

Driver Visor
- Mirror . Yes

Passenger Visor
- Mirror . Yes

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Standard Equipment & Specs (cont'd)

Rear View Mirror
   Day-night .................................. Yes

Headliner
   Coverage .................................. Full
   Material .................................. Cloth

Floor Trim
   Coverage .................................. Full
   Mats ...................................... Carpet front
   Covering .................................. Carpet

Trim Feature
   Instrument panel insert ................. Metal-look
   Gear shift knob .......................... Urethane
   Interior accents ......................... Chrome

Lighting
   Dome light type .......................... Fade
   Front reading ............................ Yes
   Illuminated entry ....................... Yes
   Variable IP lighting .................... Yes

Storage
   Driver door bin .......................... Yes
   Glove box ................................ Locking
   Passenger door bin ...................... Yes
   Illuminated .............................. Yes
   Instrument panel ....................... Bin
   Covered ................................ Covered
   1st row underseat ....................... Locking

Legroom
   Front .................................. 43.9"

Headroom
   Front .................................. 40.8"

Hip Room
   Front .................................. 62.5"

Shoulder Room
   Front .................................. 66.7"

Interior Volume
   Passenger volume ....................... 64.6 cu.ft.
Warranty - Selected Equipment & Specs

<table>
<thead>
<tr>
<th>Warranty</th>
<th>Distance</th>
<th>Months</th>
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<tbody>
<tr>
<td>Basic</td>
<td>36000 miles</td>
<td>36 months</td>
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<tr>
<td>Powertrain</td>
<td>60000 miles</td>
<td>60 months</td>
</tr>
<tr>
<td>Corrosion Perforation</td>
<td>Unlimited miles</td>
<td>60 months</td>
</tr>
<tr>
<td>Roadside Assistance</td>
<td>60000 miles</td>
<td>60 months</td>
</tr>
<tr>
<td>Diesel Engine</td>
<td>100000 miles</td>
<td>60 months</td>
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</tbody>
</table>

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## Warranty - Standard Equipment & Specs

### Warranty

**Basic**
- **Distance**: 36000 miles  
  **Months**: 36 months

**Powertrain**
- **Distance**: 60000 miles  
  **Months**: 60 months

**Corrosion Perforation**
- **Distance**: Unlimited miles  
  **Months**: 60 months

**Roadside Assistance**
- **Distance**: 60000 miles  
  **Months**: 60 months

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# Selected Options

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>Base Vehicle</strong></td>
<td></td>
</tr>
<tr>
<td>F5H</td>
<td>Base Vehicle Price (F5H)</td>
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<tr>
<td><strong>Packages</strong></td>
<td>Order Code 663A</td>
</tr>
</tbody>
</table>
| 663A | Includes:  
|      | - GVWR: 18,000 lbs Payload Package  
|      | - Tires: 225/70R19.5G BSW AS  
|      | - Cloth 40/20/40 Split Bench Seat  
|      | - Includes 20% center under-seat storage, center armrest, cupholder, storage, 4-way adjustable driver/passenger headrests and driver's side manual lumbar.  
|      | - SYNC Communications & Entertainment System  
|      | - Includes enhanced voice recognition with 911 Assist, 4.2" LCD center stack screen, AppLink, 1 smart-charging USB port, AM/FM stereo single-CD/MP3 player with 4 speakers and steering wheel audio controls.  
|      | - SiriusXM Satellite Radio  
|      | - Includes 6-month prepaid subscription. Service is not available in Alaska and Hawaii. Subscriptions to all SiriusXM services are sold by SiriusXM after trial period. If you decide to continue service after your trial, the subscription plan you choose will automatically renew thereafter and you will be charged according to your chosen payment method at then-current rates. Fees and taxes apply. To cancel you must call SiriusXM at 1-866-635-2349. See SiriusXM Customer Agreement for complete terms at www.siriusxm.com. All fees and programming subject to change. SiriusXM and all related marks and logos are trademarks of SiriusXM Radio Inc. |
| **Powertrain** | |
| 99T  | Engine: 6.7L 4V OHV Power Stroke V8 Turbo Diesel B20  
|      | Includes Diesel Exhaust Fluid (DEF) tank, Intelligent Oil-Life Monitor, manual push-button engine-exhaust braking and split-shaft calibration compatibility.  
|      | Includes:  
|      | - Dual 78-AH 750 CCA Batteries |
| 44W  | Transmission: TorqShift 6-Speed Automatic (6R140). Includes SelectShift. |
| X4N  | Limited Slip w/4.10 Axle Ratio |
| STDGV | GVWR: 18,000 lbs Payload Package |
| **Wheels & Tires** | |
| TFB  | Tires: 225/70R19.5G BSW AS |
| 64D  | Wheels: 19.5" Forged Polished Aluminum  
|      | Includes bright hub covers/center ornaments. |
| 512  | Spare Tire, Wheel & Jack  
|      | REQUIRED in Rhode Island.  
|      | Excludes carrier.  
|      | Includes:  
|      | - 8-Ton Hydraulic Jack |
| **Seats & Seat Trim** | |

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### Selected Options (cont'd)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</table>
| 3    | Cloth 40/20/40 Split Bench Seat  
Includes 20% center under-seat storage, center armrest, cupholder, storage, 4-way adjustable driver/passenger headrests and driver's side manual lumbar. | |

### Other Options

- **PAINT**
  - 193WB  
  - 193" Wheelbase
- **213**  
  - 4x4 Electronic-Shift-On-The-Fly (ESOF)
  
Includes manual-locking hubs and auto rotary control on instrument panel.
- **41H**  
  - Engine Block Heater
- **61J**  
  - 6-Ton Hydraulic Jack
- **98R**  
  - Operator Commanded Regeneration (OCR)
- **67B**  
  - Dual Extra Heavy-Duty Alternators (Total 377-Amps)
- **166**  
  - Carpet Delete (LPO)
  
Replaced with black flooring.
- **585**  
  - Radio: AM/FM Stereo/Single-CD/MP3 Player
  
Includes auxiliary audio input jack and 5 speakers.
  
Includes:
- SYNC Communications & Entertainment System
  
Includes enhanced voice recognition with 911 Assist, 4.2" LCD center stack screen, AppLink, 1 smart-charging USB port, AM/FM stereo single-CD/MP3 player with 4 speakers and steering wheel audio controls.
- SiriusXM Satellite Radio
  
Includes a 6-month prepaid subscription. Service is not available in Alaska and Hawaii. Subscriptions to all SiriusXM services are sold by SiriusXM after trial period. If you decide to continue service after your trial, the subscription plan you choose will automatically renew thereafter and you will be charged according to your chosen payment method at then-current rates. Fees and taxes apply. To cancel you must call SiriusXM at 1-866-635-2349. See SiriusXM Customer Agreement for complete terms at www.siriusxm.com. All fees and programming subject to change. SiriusXM and all related marks and logos are trademarks of SiriusXM Radio Inc.

### Fleet Options

- **62M**  
  - Adjustable Pedals (LPO)
  
REQUIRES valid FIN code.
- **47L**  
  - Ambulance Prep Pkg w/Special Emissions (LPO)
  
REQUIRES valid FIN code.
Selected Options (cont'd)

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<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>942</td>
<td><strong>Daytime Running Lamps (DRL) (LPO)</strong>&lt;br&gt;REQUIRES valid FIN code.&lt;br&gt;The non-controllable 942 Daytime Running Lamps (DRL) replace the standard Daytime Running Lamps (DRL). Includes on/off cluster controllable.</td>
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**Emissions**

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<td>50-State Emissions System</td>
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**Interior Colors**

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**Primary Colors**

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</table>
Performance

Performance predictions in this report represent an estimate of vehicle performance based on standard operating conditions. Variations in customer equipment, load configuration, ambient conditions, and/or operator driving techniques can cause significant variations in vehicle performance. These values are not representative of results that may be shown in actual dynamometer tests. This report should therefore be used as a guide for comparative vehicle performance.

Dimensions

<table>
<thead>
<tr>
<th>Letter</th>
<th>Measurement</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Front of Bumper to Front Axle</td>
<td>38.30 in.</td>
</tr>
<tr>
<td>B</td>
<td>Front Bumper to Back of Cab (BBC)</td>
<td>123.70 in.</td>
</tr>
<tr>
<td>C</td>
<td>Wheelbase (WB)</td>
<td>193.00 in.</td>
</tr>
<tr>
<td>D</td>
<td>Overall Length (OAL)</td>
<td>278.80 in.</td>
</tr>
<tr>
<td>E</td>
<td>Back of Cab to Rear Axle (CA)</td>
<td>108.00 in.</td>
</tr>
<tr>
<td>F</td>
<td>Back of Cab to End of Frame</td>
<td>155.20 in.</td>
</tr>
<tr>
<td>G</td>
<td>Rear Axle to End of Frame</td>
<td>47.20 in.</td>
</tr>
<tr>
<td>H</td>
<td>Frame Section Height</td>
<td>N/A</td>
</tr>
<tr>
<td>I</td>
<td>Rear Frame Height Unloaded</td>
<td></td>
</tr>
<tr>
<td>J</td>
<td>Rear Frame Height Loaded</td>
<td></td>
</tr>
<tr>
<td>K</td>
<td>Cab Height</td>
<td>81.60 in.</td>
</tr>
<tr>
<td>L</td>
<td>Body Width</td>
<td>80.00 in.</td>
</tr>
<tr>
<td>M</td>
<td>Maximum Ground Clearance</td>
<td>N/A</td>
</tr>
<tr>
<td>M</td>
<td>Minimum Ground Clearance</td>
<td>8.30 in.</td>
</tr>
<tr>
<td>M</td>
<td>Front Tread</td>
<td>74.80 in.</td>
</tr>
<tr>
<td>M</td>
<td>Rear Tread</td>
<td>74.00 in.</td>
</tr>
</tbody>
</table>

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Performance (cont'd)

Weight

<table>
<thead>
<tr>
<th></th>
<th>Front Axle</th>
<th>Rear Axle</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>GVW</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chassis</td>
<td>4,963 lbs</td>
<td>3,256 lbs</td>
<td>8,219 lbs</td>
</tr>
<tr>
<td>Body</td>
<td>0 lbs</td>
<td>0 lbs</td>
<td>0 lbs</td>
</tr>
<tr>
<td>Occupants Weight</td>
<td>300 lbs</td>
<td>150 lbs</td>
<td>450 lbs</td>
</tr>
<tr>
<td>1 Max Payload - (Max Payload)</td>
<td>1,737 lbs</td>
<td>7,594 lbs</td>
<td>9,331 lbs</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>7,000 lbs</strong></td>
<td><strong>11,000 lbs</strong></td>
<td><strong>18,000 lbs</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ratings</th>
<th>Front Axle</th>
<th>Rear Axle</th>
<th>GVWR</th>
</tr>
</thead>
<tbody>
<tr>
<td>GAWR</td>
<td>7,000 lbs</td>
<td>13,660 lbs</td>
<td>18,000 lbs</td>
</tr>
<tr>
<td>Wheels/Tires</td>
<td>7,500 lbs</td>
<td>15,000 lbs</td>
<td></td>
</tr>
<tr>
<td>Suspension</td>
<td>7,000 lbs</td>
<td>13,660 lbs</td>
<td></td>
</tr>
<tr>
<td>Axle</td>
<td>7,000 lbs</td>
<td>13,660 lbs</td>
<td></td>
</tr>
<tr>
<td>Legal Axle Limit</td>
<td>0 lbs</td>
<td>0 lbs</td>
<td></td>
</tr>
</tbody>
</table>

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Prepared by: Todd Woodhouse Date: 10/12/2017
Performance (cont'd)

Start, Grade and Speed

<table>
<thead>
<tr>
<th>Start</th>
<th>Ratio</th>
<th>Desired</th>
<th>Calculated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start grade capability in 1st gear</td>
<td>3.97</td>
<td>15.00 %</td>
<td>39.00 %</td>
</tr>
<tr>
<td>Start grade capability in reverse</td>
<td>3.13</td>
<td>15.00 %</td>
<td>30.70 %</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Grade</th>
<th>Ratio</th>
<th>Desired</th>
<th>Calculated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum grade in 4th gear</td>
<td>1.15</td>
<td>3.00 %</td>
<td>11.87 %</td>
</tr>
<tr>
<td>Maximum grade in 5th gear</td>
<td>0.86</td>
<td>3.00 %</td>
<td>8.86 %</td>
</tr>
<tr>
<td>Maximum grade in 6th gear</td>
<td>0.67</td>
<td>3.00 %</td>
<td>6.96 %</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Speed</th>
<th>Desired</th>
<th>Calculated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top Speed (level grade)</td>
<td>75 mph</td>
<td>105 mph</td>
</tr>
<tr>
<td>To meet your requirement you need a maximum axle ratio of 5.72</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top Speed on 3.0% grade</td>
<td>55 mph</td>
<td></td>
</tr>
<tr>
<td>To meet your requirement you need a maximum of 115 hp</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cruise Speed</td>
<td>60 mph</td>
<td>77 mph</td>
</tr>
<tr>
<td>Engine RPM at desired cruise speed</td>
<td></td>
<td>1,788 rpm</td>
</tr>
</tbody>
</table>

Variables in Use

- Rear axle ratio: 4.10/4.10
- Tire size: 225/70R19.5 (647 rev/mile)
- Gross Vehicle Weight (GVW): 18,000 lbs
- Clutch engagement torque: 375 ft.lbs.
- Torque conversion ratio: 1.90
- Peak engine torque: 750 ft.lbs.
- Engine Power: 330 hp @ 2,600 rpm
- Governed RPM: 3,120 rpm
- Frontal Area: 40.33 Sq.Ft.
- Cruising RPM: 2,300 rpm
- Worst road surface: Typical Highway
- Final Drive Ratio: 0.67
- Drag Coefficient: 0.80

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Performance (cont'd)

Shift Chart

Turning Radius

Turning Radius  27.25 ft

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