

~~Skytoaster~~  
~~05637~~

Sky Fun 1  
"Gator Bug"  
Non-Kiddie

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**GATOR BUG**  
**Operation Manual**

**GATOR BUG**  
**Operation Manual**

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Sky Fun 1, Inc.

Prepared by Sky Fun 1, Inc.  
Celebration, FL

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## Introduction to the Gator Bugs

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### 1. Introduction to the Gator Bugs

The Gator Bug is a 6 or 8 wheeled All - Terrain -Vehicle with a capacity of two or more people. The Gator Bug Track is designed to offer the thrills and excitement of operating an ATV on a safe course. The all-wheel drive Gator Bug will take the patrons where others fear to tread. They will navigate turns, hills, and water hazards while racing to beat their best time. The course is time released. There is no "head to head" racing.

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### 2. Description

The Gator Bug is an ATV with lever controlled steering, throttle and braking. It is also equipped with a foot controlled locking brake. The vehicle weight is approximately 670 pounds (305 kilos). The gross vehicle weight on land is 1270 pounds (575 kilos) and in water 1170 pounds (530 kilos). It is 86 inches long (218 cm), 37 inches high (94cm) and 56 inches wide (142 cm). It has a wheelbase of 50 inches (127 cm) and seats 2 persons. The fuel capacity is 5 U.S. gallons (19 liters). The automatic transmission is a T-20 Skid Steer planetary band type, with clutching and braking engagement accomplished by oil-immersed friction band and planetary gear. The 6-wheel drive system has a main, center and final drive chain. The axles are made of 1 ¼ inch (3.175 cm) heavy-duty steel. The towing capacity is 1100 lbs. (499 kilos). A Briggs and Stratton Vanguard OHV 4-cycle, twin cylinder air-cooled engine powers the ATV. Engine displacement is 480 cm with a bore of 68.00 mm and stroke of 66.00 mm. A Nikki Float carburetor is installed. The engine is equipped with a solid state electronic ignition system, and a 12V electronic with recoil starting system. A 16A alternator provides electrical power. A full pressure lubrication system with a spin-on filter is also installed. The engine produces 14 hp @ 3,600 rpm. The fuel consumption is .32 GPH @ ¼ throttle @ 2,000 rpm. 1.20 GPH @ full throttle @ 3,600 rpm. The engine produces 22.5 ft.lbs. of torque @ 2,100 rpm. The maximum speed is 25 mph on land and 4 mph in water, however, the Gator Bugs have been governed back to regulate safe speed operation on the course.

The Gator Bug course is a time-released dirt track consisting of, straight-a-ways, turns, hills, valley and water hazards within a one acre perimeter fenced area.

### 3. Staff

Gator Bug policy requires that at least two employees be on the site at all times. This ensures that one employee can handle the pit area, seating and briefing the patrons, while the other keeps a constant vigil on the course.

#### 3.1 Line Boss

The Line Boss is responsible for overseeing all operations of the course and shall be versed in all operations, procedures, staff, and training. Ultimately, this person is responsible for all actions and processes of the ATV course. The Line Boss must be at least 18 years old and have completed a training program provided by Gator Bug Management. The Line Boss must be physically present (within the course perimeter fencing) during all Gator Bug operations, unless the OWNER or General Manager approve operation in his / her absence. In the absence of the Line Boss at least two thoroughly trained course team members must be at the site during operations. The Line Boss can fill any position during the operation of the course, but remains responsible for the supervision of the course at all times.

#### 3.2 Pit Controller

The Pit Controller will be versed in all operations and procedures and must have completed at least 8 hours of supervised training from a Line Boss or Management. The Pit Controller duties include, but are not limited to, assisting the Line Boss in performing the following duties:

1. Completing daily pre-operational checks using appropriate checklists.
2. Maintaining all equipment in serviceable condition.
3. Performing the operational test of the Gator Bugs as part of the inspection process.
4. Giving a briefing to the patrons before they operate the Gator Bug.
5. Responsible for the safe and efficient operation of the pit area. To include loading, unloading of patrons as well as all fueling operations.
6. Maintaining security of the course against unauthorized persons and objects.
7. Operating the PA system and timing systems.
8. Maintaining a position where a clear view exists of the entire pit and gate areas.

### 3.3 Field Team

The Field Team works out on the course. They are responsible for the safe operation of the vehicles while on the track. Their duties include:

1. Ensuring the vehicles remain on the course and are moving in the proper direction, keeping distance between vehicles.
2. Warning patrons not to bump.
3. Assist patrons having trouble operating the vehicle.
4. Maintain course safety at all times.
5. Clear accidents if they occur.
6. Assist the Pit Controller and Line Boss in the performance of their duties.

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## Pre-Operation Procedures

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### 4. Pre-operation Procedures

Prior to each day's operation, complete a thorough inspection using the Inspection Log located in *Appendix A*. Complete this inspection carefully to eliminate potentially dangerous situations.

#### 4.1 Helpful Hints

There is a difference between mentally checking something and physically checking something. In redundant activities such as inspections, it is easy to internalize the activities and miss items. Break this cycle by concentrating on the inspection. Talk with your co-inspector as you go through the checkpoints, and verbally confirm all check procedures one at a time. Do not rush through the procedures. Make sure you and your co-inspector are not preoccupied. And finally, sign the checklist only when you are confident that all safety inspections and procedures are satisfactorily completed.

# Operation Procedures

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## 5. Operation Procedures

These operation procedures are also known as "Patron Walk Through for the Gator Bug ATV course".

### 5.1 Walk through

#### Step 1

- a. Patrons arrive at the Gator Bug site and are met by the Customer Representative.
- b. The Customer Representative should answer all questions with the utmost confidence and enthusiasm.
- c. The Customer Representative will provide ticketing services for the Gator Bug attraction and briefing on processing procedures.
- d. This position should not be taken lightly. A good impression will assure positive word of mouth advertising for the operation.

#### STEP 2

- a. Patrons arrive at the Gator Bug pit area.
- b. The Pit Controller greets the patrons and takes their ticket.
- c. The Pit Controller then provides the patron with a helmet and goggles and assigns a Gator Bug to the patron.
- d. Once seated in the vehicle, the Pit Controller ensures the seat belts are secured.
- e. The Pit Controller then briefs the driver on the vehicle operation and course rules for safe operation. He/she will also demonstrate any manual (hand) emergency signals.
- f. Once the Pit Controller has briefed the patron and double checked their safety equipment he/she will release the vehicle. (Release no earlier than 30 seconds from the last vehicle released)

**NOTE:** The Line Boss will assist the Pit Controller in the above steps if there are no other vehicles on the track.

### **STEP 3**

- a. The Line Boss, as well as all Field Team Members, keeps a constant watch on all vehicles while on the course.
- b. The Line Boss will use the vehicle remote control box to keep required spacing between all vehicles.
- c. The Field Team Members shall assist patrons with difficulties while on the course. One Field team member will also carry a remote (hand held) vehicle control box to "kill" the track in case of an emergency.

### **STEP 4**

- a. As a vehicle approaches the pit, at the conclusion of the course, the Line Boss will "kill" that vehicle, using the remote control box, to ensure safe pit entrance speed.
- b. Once the vehicle is in the pit and stopped, the Pit Controller will assist the patrons out of the vehicle. Once he/she has recovered the helmet and goggles from the patron he/she will thank the patron for visiting and invite them back. He/she will then direct the patron to the pit exit gate.
- c. The Pit Controller will then stow the helmet and goggles and move the Gator Bug up in the pit area to the ready position.

### **STEP 5**

- a. The above cycle repeats itself.

# Emergency Procedures

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## 6. Emergency Procedures

In addition to these procedures, all team members are to conform to procedures and guidelines outlined by local and state authorities governing the recording and notifying of authorities about serious injuries and fatalities.

### 6.1 Accidents

If there is an accident, keep all onlookers from the area. The whole staff is to help accomplish this. The Customer Representative is to call the proper authorities immediately and give the location and type of accident and assistance needed.

The victims are not to be moved unless they are in a position that is life threatening.

The Line Boss or Manager on Duty is to remain at the victim's side until help arrives.

After first aid or life saving measures are given, do not move or change anything (all personnel are to remain on the site) until authorized to leave by local authorities having jurisdiction.

If the event has been captured on video, keep the video in your possession pending legal counsel.

In the event a Gator Bug has overturned it is imperative to upright the vehicle quickly as it poses a potential fire hazard.

Complete an Incident Report Form (*Appendix C*) and map (*Appendix G*) and forward a copy to SkyFun 1.

### 6.2 Minor Fires

A minor fire endangers equipment and poses a danger to customers and team members. A minor fire can be put out using a fire extinguisher. These are the procedures for a minor fire:

#### **STAY CALM**

Notify the Line Boss and Manager On Duty immediately.

Move all customers to safety.  
Locate the nearest fire extinguisher, and if it is the appropriate type for the fire, attempt to put out the fire.

Gather information and complete an Incident Report Form (*Appendix C*) and forward a copy to SkyFun 1 upon completion.

## **6.3 Major Fires**

A major fire poses a serious risk to customers, team members, and equipment. Anyone who is not experienced using fire extinguishers should not attempt to put out a major fire. These are the procedures to follow in the event of a major fire.

### **STAY CALM**

#### **Call 911 and report the fire**

Notify the Line Boss and Manager On Duty immediately.

Move all customers to safety.

Assist with crowd control until the situation is resolved.

Gather information and complete an Incident Report Form (*Appendix C*) and forward a copy to SkyFun 1 upon completion.

## Safety Guidelines

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### 7. Safety Guidelines

The Gator Bug ATV has been designed to be a very safe vehicle. However, human error or deviation from the design operation of the vehicle or the ATV course could result in injuries or fatalities. The following are guidelines that must be observed while operating the attraction.

#### 7.1 Guidelines

The driver of the vehicle must be at least 16 years old and 52 inches in height with a Drivers License or Permit and two arms capable of controlling the steering, throttle and braking of the vehicle.

All passengers must be at least 3 years of age.

The driver and passenger **MUST** wear seat belts.

Both the driver and passenger **MUST** wear helmets and goggles.

Every section of the track shall be monitored during its operation. This shall be done visually by attendants or by electronic visual and audio means.

Tracks shall be free of oil and fuel spills.

Tracks shall be free of foreign objects and must be reasonably graded.

All loose clothing shall be secured so as not to interfere with the safe operation of the vehicle.

No person shall operate a vehicle under the influence or suspected of being under the influence of alcohol or drugs.

Smoking shall not be permitted in the vehicles or pit area.

Vehicle patrons must remain seated and inside vehicles at all times while on the course.

Vehicles must remain spaced out while on the course. They are to be released from the pit individually in increments of no less than thirty seconds.

During vehicle refueling operations, all patrons and spectators will remain safely distant from the refueling area. Gas caps will be reinstalled and double-checked.

## **7.2 Meetings**

Periodic safety meetings will be scheduled and conducted by the Management of the Gator Bugs or his / her designated representative. Attendance is mandatory and the Gator Bug Safety Meeting Log (*Appendix F*) will be completed and kept on file with Management.

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## Maintenance Guidelines

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### 8. Maintenance Guidelines

The Gator Bugs have been designed to be a very safe vehicle. However, human error or deviation from the design operation or maintenance procedures of the vehicle could result in injuries or fatalities. The following are guidelines that must be observed while maintaining the vehicle.

#### 8.1 Guidelines

All vehicles must have preventive maintenance as well as restorative maintenance performed in accordance with the vehicle manufacturers maintenance schedule and manuals.

All maintenance manuals and records must be kept on file at the sight.

All preventive maintenance, once performed, will be logged on The Gator Bug Scheduled Maintenance form. (*Appendix D*)

All unscheduled restorative maintenance performed, once completed, will be logged on the Gator Bug Maintenance Log form. (*Appendix E*)

## Patron Restrictions

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### 9. Patron Restrictions

#### Age...

Gator Bugs require that the driver be at least 16 years old with a Drivers License or Permit and the passenger be at least 3 years old.

#### Physical and mental conditions...

Drivers must be in good physical and mental condition. Specifically, drivers must not be impaired by drugs or alcohol. Drivers and passengers must not have any physical problems such as heart conditions or back or neck injuries. Females cannot be pregnant.

#### Height and weight ...

There is no minimum weight requirement, however the driver must be 52 inches tall. The combined weight of the driver and passenger cannot exceed 500 pounds.

### Gator Bug Inspection Log

Date: \_\_\_\_\_

#### AREA INSPECTIONS:

Initials:

1. Perimeter fencing and gates:
2. Fire extinguishers present, tagged and serviced:
3. Pit area, free of trash and foreign objects:
4. Pit area entrance and exit gates:
5. Pit area tent for cleanliness and security:
6. Empty all trash containers and ashtrays:
7. Check all signs are present and in good condition:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

#### TRACK INSPECTION:

1. Walk the track checking barriers and grading, correct problems and remove all foreign objects and trash:

\_\_\_\_\_

#### EQUIPMENT INSPECTION:

1. Check the operation of the Pit Controller and hand held remote:
2. Check all lighting systems:
3. Check helmets and goggles:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

#### GATOR BUG INSPECTION:

1. Complete the daily vehicle inspections on each vehicle:  
(Utilize the form in *Appendix B*)

\_\_\_\_\_

**BEFORE ANY PATRON MAY OPERATE A GATOR BUG THIS SHEET MUST BE SIGNED BY A QUALIFIED MAINTAINANCE INSPECTOR IDENTIFYING IT IS READY TO OPERATE.**

\_\_\_\_\_  
INSPECTOR'S SIGNATURE

\_\_\_\_\_  
DATE

**DAILY MAINTENANCE**  
**GATOR BUG # \_\_\_\_\_**

**HOBBS TIME NOW: \_\_\_\_\_**

**DATE: \_\_\_\_\_**

**EVERY 10 HRS OF OPERATION / Daily**

1. Pressure wash vehicle
2. Remove floorboards and clean out chain troughs
3. Check chain tension. Tighten if necessary
4. Check tire inflation (3psi)
5. Check battery
6. Check transmission fluid
7. Check parking brake
8. Check drive belt
9. Check oil level
10. Lubricate throttle cable and check for operation
11. Check wheel nuts for tightness
12. Check gas is full
13. Gas cap tight
14. Check safety belts
15. Check roll bar
16. Check body for damage and security
17. Check steering, brakes
18. Check shift operation
19. Test drive the bug for proper operation ( Check Pit Control)

**SIGNATURE OF MECHANIC: \_\_\_\_\_**

**DATE: \_\_\_\_\_**

### Gator Bug Incident Report Form

Date of incident: \_\_\_\_\_ Time of incident: \_\_\_\_\_ Weather conditions: \_\_\_\_\_

Injured person's full name: \_\_\_\_\_  
(Last) (First) (MI)

Age: \_\_\_\_\_ Sex: \_\_\_\_\_ Social Security Number: \_\_\_\_\_

Injured person's address: \_\_\_\_\_  
\_\_\_\_\_

Telephone numbers: \_\_\_\_\_ ( ) \_\_\_\_\_ ( )  
(home) (work)

If a minor, parent or guardian's name: \_\_\_\_\_  
(Last) (First) (MI)

Parent's or guardian's telephone numbers: \_\_\_\_\_ ( ) \_\_\_\_\_ ( )  
(home) (work)

Operator's name: \_\_\_\_\_  
(Last) (First) (MI)

Operator's address: \_\_\_\_\_  
\_\_\_\_\_

Operator's telephone number: \_\_\_\_\_ ( ) \_\_\_\_\_ ( )  
(home) (work)

Equipment involved: \_\_\_\_\_  
Details of incident: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(Add more pages if necessary)

Witness name: \_\_\_\_\_ Witness name: \_\_\_\_\_  
Address: \_\_\_\_\_ Address: \_\_\_\_\_  
Telephone: \_\_\_\_\_ Telephone: \_\_\_\_\_

**GATOR BUG SCHEDULED MAINTENANCE FORM**  
**GATOR BUG # \_\_\_\_\_**

**HOBBS TIME NOW:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

**EVERY 30 HRS OF OPERATION**

1. Check battery, add water if necessary
2. Check air filter pre cleaner, clean or replace
3. Lubricate chains. Apply chain lubrication with chains rotating slowly
4. Oil steering levers through holes at top of handle grips
5. Oil control rod pivot points
6. Oil transmission linkage pivot points
7. Check transmission fluid level

**EVERY 60 HRS OF OPERATION**

1. Check steering levers for excess travel (if more than 10 " measured at hand grips, adjust)
2. Check torque converter belt
3. Change engine oil

**EVERY 100 HRS OF OPERATION**

1. Change transmission fluid
2. Lubricate the shift drum assembly beneath the diamond-shaped shifter where it goes through the aluminum housing
3. Check the transmission four (4) bottom mounting studs and nuts for tightness
4. Change engine oil filter
5. Change engine air cleaner cartridge
6. Clean engine cooling system
7. Replace or clean spark plugs
8. Replace fuel filter

**EVERY 200 HRS OF OPERATION**

1. Disassemble torque converter pulleys and inspect for worn parts.
2. Replace drive belt.

**EVERY 500 HRS OF OPERATION**

1. Clean engine combustion chamber deposits

**SIGNATURE OF MECHANIC:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

**HOBBS TIME OUT:** \_\_\_\_\_



## Gator Bug Employee Safety Meeting Log

Date: \_\_\_\_\_  
Time: \_\_\_\_\_

Conducted by: \_\_\_\_\_  
Title: \_\_\_\_\_

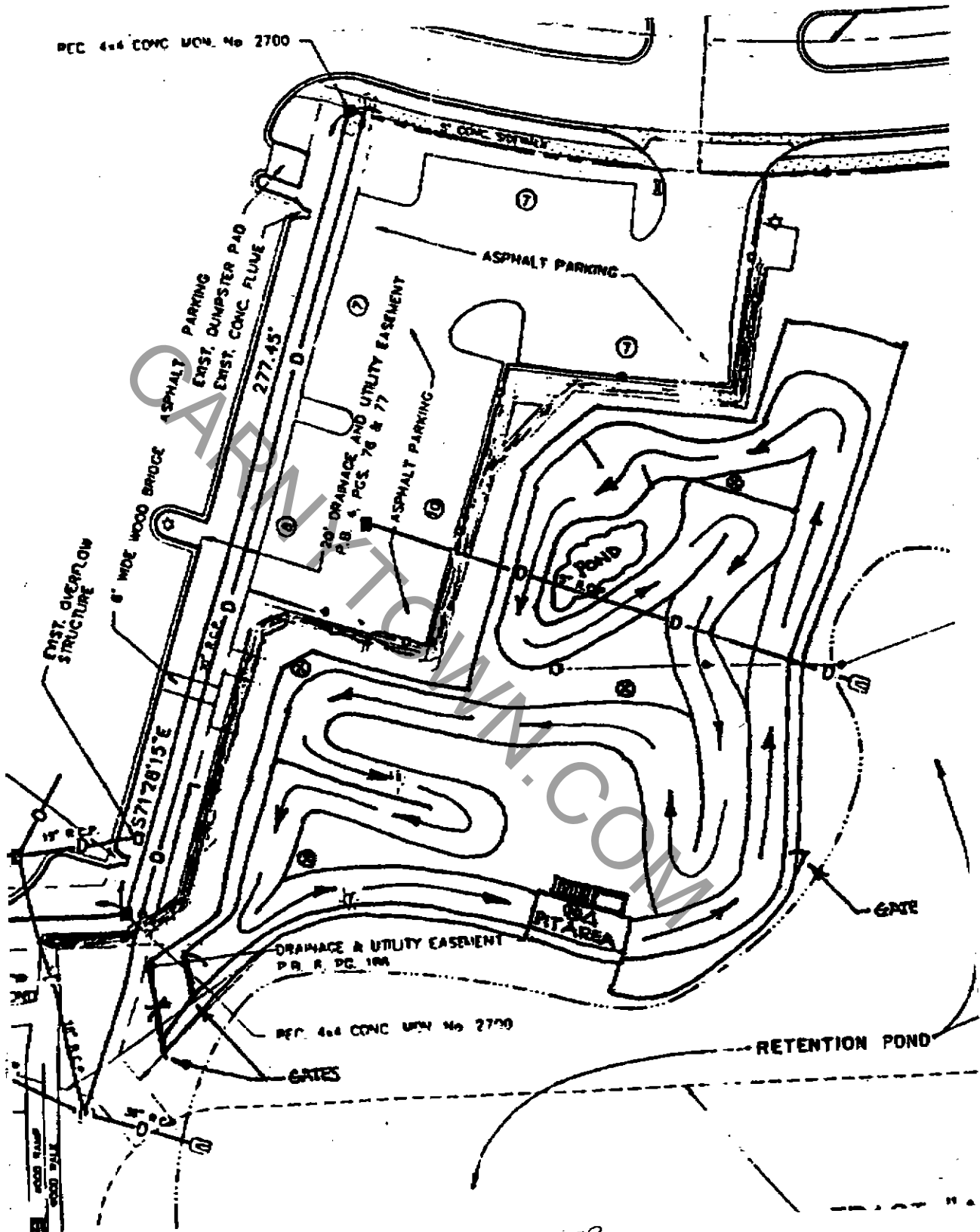
### Signature of Employees Present

- |           |           |
|-----------|-----------|
| 1. _____  | 11. _____ |
| 2. _____  | 12. _____ |
| 3. _____  | 13. _____ |
| 4. _____  | 14. _____ |
| 5. _____  | 15. _____ |
| 6. _____  | 16. _____ |
| 7. _____  | 17. _____ |
| 8. _____  | 18. _____ |
| 9. _____  | 19. _____ |
| 10. _____ | 20. _____ |

---

Managers Signature

Date



REC 4x4 CONC MON. No 2700

ASPHALT PARKING  
EXIST. DUMPSTER PAD  
EXIST. CONC. FLUME

ASPHALT PARKING

20' DRAINAGE AND UTILITY EASEMENT  
P.B. & PGS. 76 & 77

EXIST. OVERFLOW  
STRUCTURE

6" WIDE WOOD BRIDGE

55712815'E

DRAINAGE & UTILITY EASEMENT  
P.B. & PGS. 100

REC 4x4 CONC MON No 2700

TRUCK  
PIT AREA

GATE

RETENTION POND

GATES

⊗ Fire EXTINGUISHER  
△ First Aid



April 5, 1999

Sky Fun 1  
500 Celebration Ave  
Celebration, FL

Attn: Bill Kitchen

Subject: Gatorbug Safety Fence

Dear Bill:

Attached is the construction specifications and analysis of the safety fence for the Gatorbug course. The analysis, as well as the results of your tests, show that the fence should be able to absorb the impact forces generated by direct impact of the buggies.

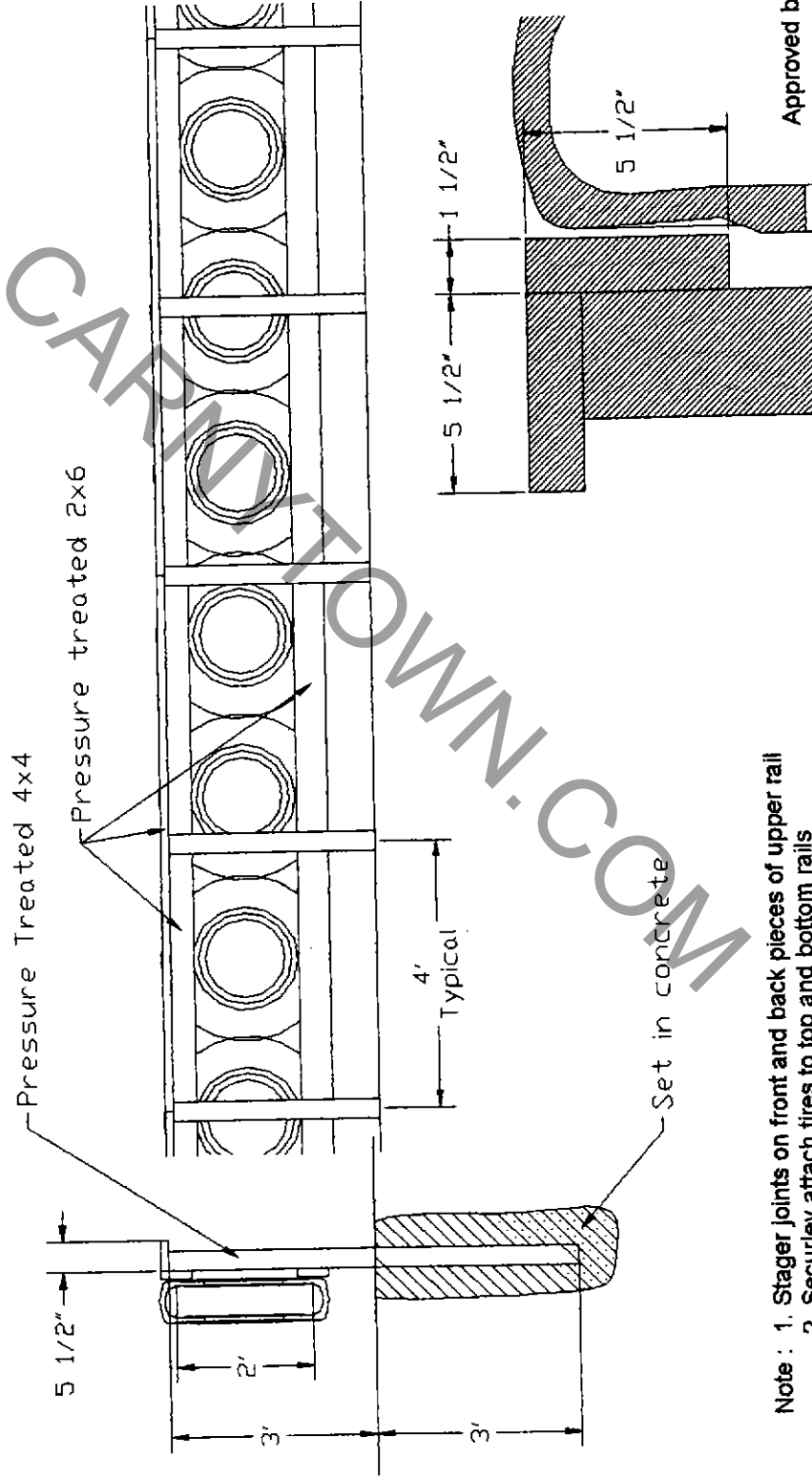
If you have any further questions, please give me a call.

Sincerely

M.J. Palmer  
FL PE# 52393

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PENCORP Inc. • 17 Alphas St. • Poquoson VA 23662  
Phone: 757-868-9865 • Fax: 757-868-3845 • e-mail: mpalmer@widomaker.com



- Note :
1. Stager joints on front and back pieces of upper rail
  2. Securley attach tires to top and bottom rails

Approved by M.J. Palmer, PE

*M.J. Palmer*  
4/3/99

Safety Fence Installation

Analysis Assumes the Buggies weigh 650 lbs and is 42" wide (empty plus 350 lbs of Passengers) and has maximum speed of 15 mph.

Mass of Car  $M := 1000 \cdot \text{lb}$       Velocity  $V := 15 \cdot \text{mph}$        $V = 22 \cdot \frac{\text{ft}}{\text{sec}}$   
 Spacing  $= 48 \cdot \text{in}$        $E_{\text{wood}} := 1.20 \cdot 10^6 \cdot \text{psi}$

Total Energy of Car  $U := \frac{1}{2} \cdot M \cdot V^2$        $U = 7522 \cdot \text{ft} \cdot \text{lb}$

$a := 1.5 \cdot \text{in}$      $d := 1.5 \cdot \text{in}$      $B := 5.5 \cdot \text{in}$      $b := 4 \cdot \text{in}$      $H := 7 \cdot \text{in}$      $c1 := \frac{1}{2} \cdot \frac{a \cdot H^2 + b \cdot d^2}{a \cdot H + b \cdot d}$      $h := c1 - d$      $c2 := H - c1$      $h = c1 - d$      $c2 = 4.5 \cdot \text{in}$

$I := \frac{1}{3} \cdot (B \cdot c1^3 - b \cdot h^3 + a \cdot c2^3)$        $I = 72.875 \cdot \text{in}^4$

Assume Distributive load for the bending on the posts ( $w = M/\text{spacing}$ )

$\delta_{\text{st}} := \frac{M \cdot (5 \cdot \text{Spacing})^3}{384 \cdot E_{\text{wood}} \cdot I}$      $\delta_{\text{st}} = 0.412 \cdot \text{in}$      $\sigma_{\text{st}} := \frac{M}{42 \cdot \text{in}} \cdot \frac{\text{g}}{8} \cdot \frac{\text{Spacing}^2 \cdot c1}{I}$      $\sigma_{\text{st}} = 235 \cdot \text{psi}$

$\delta_{\text{total}} := \left( \frac{\delta_{\text{st}} \cdot V^2}{g} \right)^{.5}$        $\delta_{\text{total}} = 6.096 \cdot \text{in}$        $\sigma_{\text{total}} := \frac{\delta_{\text{total}}}{\delta_{\text{st}}} \cdot \sigma_{\text{st}}$

$\sigma_{\text{total}} = 3483 \cdot \text{psi}$       For Yellow Pine  $\sigma_{\text{max}} := 4000 \cdot \text{psi}$        $\text{FS} := \frac{\sigma_{\text{max}}}{\sigma_{\text{total}}}$        $\text{FS} = 1.148$

*M. J. [Signature]*  
 4/3/99

## Glossary

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**Definitions:** As used in this manual the following definitions shall apply.

**Adult track:** Means an all terrain vehicle track that is designed to operate adult vehicles.

**Adult vehicle:** Means a vehicle designed for patrons who are a minimum of 52 inches of height and 16 years of age.

**ATV:** Means an all terrain vehicle and is synonymous with vehicle.

**Governor:** Means a device that limits the maximum speed of a vehicle to a predetermined number of miles per hour.

**Patron:** Means a person operating or riding in a vehicle on a track within a course.

**Pit area:** Means that designated area where patrons are loaded or unloaded into and out of vehicles.

**Remote Control Speed Limiting Device:** Means a speed-limiting component that allows the manager of the track to bring the throttle back to idle of any ATV on the track.

**Roll Bar:** Means a frame or structure, which extends above the patron's head and is designed to support the weight of the vehicle and protect the patron should the vehicle turn over.

**Safety restraint:** Means an adjustable lap belt and is synonymous with seat belt.

**Track:** Means the physical surface over which the vehicle travels.

**Track safety barrier:** Means a physical obstruction designed to prevent a vehicle from leaving the track.

**Vehicle:** Means a carrier controlled or driven by patrons specifically designed to be run and which is run on a fixed course for amusement, pleasure, or excitement of the patron.