Central Indiana Jump Club

mt. pleasant, indiana
Abstract

CENTRAL INDIANA JUMP CLUB
Mt. Pleasant, IN

by Carol Drake
May, 1981
Prof. Sonny Palmer

A parachuting club is a facility designed to accommodate the ever-growing sport of skydiving. It must effectively house all of the necessary equipment needed for the sport, and handle the processing of each jumper effectively and efficiently. This facility is to be located in Central Indiana to increase accessibility throughout the state, as there are no U.S.P.A. licensed Drop Zones in the State of Indiana at present. The building is approximately 55,000 sq. ft. and located on a site of 253 acres. It must take viewing and visibility from the air as an important aspect, yet have a human scale at ground level.
TESTS

All submit to them where they sit, inner,
secure, unapproachable to analysis
in the soul,
Not traditions, not the outer authorities
are the judges,
They are the judges of outer authorities and
of all traditions,
They corroborate as they go only whatever cor-
roborates themselves and touches
themselves;
For all that, they have it forever in them-
selves to corroborate far and near
without one exception.

Walt Whitman

Leaves of Grass

I would like to give special thanks to John J.
Isch for the support and understanding he gave me
during this period of my thesis. I would also like
to thank Sonny Palmer, my studio critic, and Tony
Costello, my outside critic, for their advice and encour-
agement through out the past year.
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1. Introduction
Introduction

Background:

The United States Parachute Association (USPA) is a national organization representing the skydivers in this country. As such the USPA is in charge of setting safety regulations for both jumper's licenses and drop zone licenses. Thus far the USPA has certified ninety five drop zones for safety and student indoctrination; none of these, however, are in the state of Indiana.

This rather conspicuous lack, I feel, to be a growing deficit to the state as skydiving is an ever increasingly popular sport. Over 30,000 parachutists make over two million jumps each year in the United States alone as a sports endevor, and the mid-western states are considered a capital for jumping, as the terrain and ground clearance are natural for this sport.

Scope:

Parachuting, a growing sport, is considered with great apprehension by a majority of individuals. This is due mainly to a lack of knowledge of the sport. For this reason the Public Relations of a drop zone is of extreme importance as well as the education of the public to accept parachuting as an exciting sport, not an occupation of "thrill seeking dare devils".

For this reason the Parachute Club I am proposing must be a good community neighbor, with a good deal of emphasis on visitor (non-jumpers) participation. It should serve the student jumper and the experienced jumper as well as provide the possibility for various competitions. It should be planned for an efficent process in jump preparation and have the over all air of excitement that jumpers have grown.
to relish. As a "club-house" it should house as many as 50 Jumpers with temporary housing (rack rooms). As an educational/public relations facility it shall contain an exhibition space, a reastrant and bar to seat approx. 70, and a USPA store where equipment and various paraphernalia can be examined and purchased. And as a jump facility it shall have the facility to store a minimum of five planes under-roof and provide the facilities necessary for a pleasant jumping experience.

Goals:

The purpose of this facility is to create an exciting jump experience for both the beginner and the experienced jumper. It is also to provide a public interaction with various visitor and educational facilities.

This facility should:
- provide an aurora or image of excitement yet remain a support facility to the sport.
- provide jumpers with companionship of fellow jump enthusiasts.
- be designed for maximum efficiency for the staff as well as the jumpers.
- be designed for ease of maintinance.

- be designed to create a variety of spaces, from casual fun, to serious work, to pure relaxation.

This facility should have a human scale and a sense of intimacy, as well as portray the inherent excitement of the sport. It should be designed for efficiency of space and a feeling of openess. It should become a landmark for the area.

Organizational Data:

To be able to come to some understanding of the organization of this proposed "jump club" one

Goals
Jumper Processing Diagram

ARRIVE
1. pay for lessons or jump - information
8. sign log book

CHUTE FOLDING
9. deposit chute for folding or fold chute

JUMP FIELD/DROP ZONE
5. load plane, equipment check
7. land, gather chute

'HANGER'
2. lessons - learn to jump, correct chute failures, and steer chute

'JUMP PLATFORM'
3. learn four different positions of landing and obstacle landing

LOCKER/EQUIPMENT ROOM
4. suit up for jump, equipment checked
10. deposit equipment

REST ROOM/SHOWER

Organizational Data 4
must have some understanding of the process a jumper (student and experienced) must go through in order to make a jump. As there is more involved in a student jump, that shall be de- gregated (the steps marked by a: '...' are excluded by an experienced jumper).

Other factors that must be considered are the steps taken by the actual jump equipment which includes: parachute (main), emergency chute, altimeter, jump suit, jump boots, helmet, gogles (for contact or glasses wearers), gloves (for winter jumps), dummy rip cord (for static line jumps).

Equipment Processing Diagram
Another form of organization that is an integral part of the project is the official management organization. The management of this project would consist of the following:

- **Owner/Manager**
- **Secretary**
  - **Staff** (Exhib./Store/Jump Facility)
    - Janitorial, instructors, jump masters, pilots, navigational person, mechanics, general staff
  - **Staff** (Restaurant/Bar Facility)
    - Cooks, waiters, bus personnel, general staff

Organizational
2. Site Information
Site Information

General Information:

The site I have chosen for this project is a large area of farm land in Mt. Pleasant Township of Delaware County, Indiana. Access throughout the state will become increasingly more simple as one block to the north is McGalliard Rd. which is the site of an interchange being built with I-69 (2.1). The site is less than four miles from said future interchange. The site was chosen so as not to be in conflict with existing air routes.
(see appendix) and not to be in conflict with instrumentation zones of any airport (dotted keys on aviation map, 2.2). The site did have to be with in control tower range of at least one airport, as a control tower was not a part of this project. Other elements that controlled the selection of the site were the absence of major electrical lines, large amounts of topographic change, excessive foliage (trees and shrubs), and large bodies of water. The site I have chosen fits all of the above requirements, and due to the ease of access and its central location in the state, would make an admirable Central Indiana Jump Club.
The site is 5,280 ft. long and 2,090 ft. wide, a total of 253 acres. It will be accessible from Jackson St. on the north side of the site. There is a small irrigation stream that runs through the site and must be maintained in some manner for the use of the farms on both the north and south ends of the site. The amount of vegetation on the site is small and predominately on the north part of the site.

Site/Contextual issues:

After analysing the site several Site/Contextual issues were decided upon in order to help define the problem. Some of the important issues that relate to the stream are the re-routing of the irrigation stream so the site is left open (2.3), and the possibility of creating a node on the stream should also be considered (2.4). Issues relating to access are the visibility and the access from McGalliard (2.5), and keeping a relatively close proximity of the actual structure to Jackson St., thus effectively keeping the majority of the site open as the drop zone (2.6). Two other important issues deal with the zoning of the site. There should be definable zones for the public and private (drop zone) areas of the site (2.7); also a
"front yard" to the road should be maintained, thus implying two fronts of the building (to Jackson and to the drop zone, 2.8).
3. Building Criteria
Building Criteria

The building criteria is the result of the program (see appendix) and personal value judgement. It, along with the Site/Contextual issues, are the basis of the Design Concept. These Building Criteria can be divided into two groups, zoning and orientation/room description. In the criteria dealing with zoning all of the programmed spaces are divided into three basic groups excluding the hanger, the Visitor's Zone (lobby, exhibition, restraint, etc.), the Jumper's Zone (commons, rack room), and the Jumper Processing Zone (equipment, chute folding, etc.). These zoning criteria deal with the orientation of the club house to Jackson St. (3.1), the orientation of the club house and hanger to the drop zone (3.2), the ease of circulation between the various zones (3.3), and that the access of service to the structure should occur through the parking area (3.4).
The four criteria dealing with orientation and room description are the orientation of viewing the drop zone from a majority of the spaces in the structure (3.5), and the idea that a variety of space characteristics should be included to relate to the space's use (3.6). Another of these criteria is that some spaces must demonstrate flexibility in usage (exhibition, store, commons, etc.), and that visibility should be used as a means of advertising the presence of the Jump Club.
4. Design
Design

Original Concept:

With the definition of the Site/Contextual issues and the building criteria the next step becomes the development of a concept.

Throughout the original concept I dealt with the structure in a "ground oriented" manner. By this time all of the programmed spaces had been divided into three groups/zones: the hanger, the exhibition/store, and semi-public areas. These groups become zoned from public to private with the exhibition/store at one end of the spectrum and the hanger on the other end (4.1). The structures orientation on the site became angular with all of the various zones staggered to emphasis the view to the drop zone by providing more viewing areas (4.2). The circulation was to be maintained in a simplified circulation path down the central portion of the building (4.3), with the structure occurring at ten ft. intervals. As far as exterior appear-
ance, the building became weighted on either end by the hanger and the exhibition/store area, which were related by the visibility of a space frame that acted as some what of a cornice. The central section which stretched between the hanger and the exhibition/store area was to be predominantly glass broken only by the viewing deck and stair tower to the south and an exterior stair to the north (4.4).

After fully documenting this concept, analysis began again. This concept had a good flow of circulation and the spaces related well to one another; in these respects the concept was successful. Upon further critical evaluation I found several grave lackings in the concept, the chief of which was its orientation to the ground. The people who make use of the facility will see the structure from the air with regularity, thus making the roof plane a fifth facade to consider. The whole design was too timid for the sport it was catering to. Throughout my concept development I had leanings towards a high technology solution; yet I subdued it in brick clading and traditional flat roof construction. The whole project had lost the sense of color and excitement that a parachute club should incorporate. As relates to the site I had definitely
manipulated the stream yet tried to give it a natural appearance. The structures siting its self appeared arbitrarily placed. This analysis of my original concept's strengths and failings became the basis of my revised concept.

Revised Concept:

The second, or revised, concept took the viewing from the air as a very strong point to be dealt with. It would affect the handling of the stream, the runway(s), the parking, and the over all layout of the building. The form of the building had to be simplified in order to read well from the air and by strict manipulation of the stream I could help mark the public zone from the drop zone, thus aiding the jumpers and visitors as well. Also some lines of axis could be establish ed using the south stair tower, the runway, and the stream itself. I could also add interest in the site by playing geometric shapes off of one another.

In short the revised concept would take on a totally different orientation; it would be "air oriented" rather than "ground oriented".

Random Details:
A Space frame was chosen for it's spanning capabilities and it's versatility to create a unified element to tie the main structure together and to the service building. A metal panel was decided upon in preference to brick as a more suitable material for an aviation facility. These metal panels were carried onto the roof in a varied form, pyramidal five foot squares of bright ly enameled colors. These panels would rest on the top cord of the space frame when more open spaces were required, or the capability of hanging objects was desired (in the hanger, the service building, and the
exhibition/store). Throughout the rest of the structure the panels would rest on the lower cord of the space frame creating a more personal space. In places the space frame would be left exposed for visibility up through the structure - creating the sense of a building within a building. The colors of these roof panels would be echoed on the hanger doors in a spectrum of deep blue, aqua, green, yellow, orange, and red. This splash of color (in addition to the roof) would act as a weight in the central section of the total facade, as the rest of the structure would be of neutral coloring (the space frame and it's columns a deep charcoal grey and the wall panels an oyster grey).

Hanger Door Graphics - development

Revised Concept 19
5. Appendix
Program

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3. Organizational Data:

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Jumpers Processing Diagram

INFORMATION/LOGGING

ARRIVE

1. pay for lessons or jump - information
8. sign log book

HANGER

2. lessons - learn to jump, correct chute failures, and steer chute

JUMP PLATFORM

3. learn four different positions of landing and obstacle landing

LOCKER/EQUIPMENT ROOM

4. suit - up for jump, equipment checked
10. deposit equipment

REST ROOM/SHOWERS

CHUTE FOLDING

9. deposit chute for folding or fold chute

JUMP FIELD/DROP ZONE

5. load plane, equipment check
7. land, gather chute

JUMP

6. guided by Traffic Office

Program/Organizational   33
must have some understanding of the process a jumper (student and experienced) must go through in order to make a jump. As there is more involved in a student jump, that shall be de-gramed (the steps marked by a '...' are excluded by an experienced jumper).

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CHUTE REPAIR
repair torn chutes, and replace lost components

CHUTE FOLDING
5. inspect and fold chute

LOCKER/EQUIPMENT ROOM
1. store equipment and suit up
6. re-store equipment

JUMP FIELD/DROP ZONE
2. final equipment check
4. gather chute

JUMP
3. use of chute

Equipment Processing Diagram

Program/Organizational 34
Another form of organization that is an integral part of the project is the official management organization. The management of this project would consist of the following:

- Owner/Manager
- Secretary
- Staff (Exhib./Store/Jump Facility)
  - janitorial, instructors, jump masters, pilots, navigational person, mechanics, general staff
- Restrant Manager (Restrant/Bar Facility)
  - Staff
  - cooks, waiters, bus personnel, general staff
# 4. Space Summary

<table>
<thead>
<tr>
<th>SPACES</th>
<th>USERS</th>
<th>SPACE PREP.</th>
<th>FURNITURE and EQUIPMENT</th>
<th>ENVIRONMENTAL REQUIREMENTS</th>
<th>LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRAFFIC OFFICE</td>
<td>radio operator, sighter, jump</td>
<td>to track other planes in the area &amp; keep a watch on jumpers &amp; pilots</td>
<td>charts (aviation &amp; other), radio, table (2), telephone, chairs (5), desk(1) speaker microphone to jump field</td>
<td>air cond., heat - comfort able, task lighting</td>
<td>&quot;quite area&quot; visual cont. w/jump field close to office &amp; lobby</td>
</tr>
<tr>
<td></td>
<td>master, pilots</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>students</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CUSTOM/OWNER OFFICE</td>
<td>owner/manager, secretary, visitors, employer</td>
<td>where Co. business is handled</td>
<td>desk and chair, safe, lounge chairs (2), lamps</td>
<td>air cond., heat - comfort able, control lighting</td>
<td>&quot;quite area&quot; close to the sec. and traffic office, also the lobby and store</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SECRETARY'S AREA</td>
<td>secretary, visitors, employer</td>
<td>reception to office, record keeping own manager</td>
<td>desk &amp; chair, file cab.(vert.), telephone, typewriter on stand</td>
<td>air cond., heat - comfort able, task lighting</td>
<td>&quot;quite area&quot; close to offices, lobby, store</td>
</tr>
<tr>
<td>LOUNGE/LOBBY</td>
<td>visitors, employer</td>
<td>waiting, socializing, info signing info book</td>
<td>lounge seating for 25, counter desk, cash register, telephone, ash tray, lamps, tables</td>
<td>air cond., &quot;warm&quot; lighting, task by desk area</td>
<td>&quot;open area&quot; close to offices, entry, rest area, exhibit area, visual to jump field</td>
</tr>
</tbody>
</table>

Program/Space Summary 36
| U.S.P.A. STORE | visitors, staff sales of jumpers | display cases & racks, cash register | air cond. heat - comfort- able | "warm" lighting | open area | close to office & lobby, also exhib. |
| SALES STORAGE | staff | store, excess goods | shelves | well ventilated task lighting | unobstructive | close to U.S.P.A. Store |
| EXHIBITION AREA | visitors, staff information - museum | equipment for display, display cases, shelves, screens | air cond. heat - comfortable | "warm" lighting w/spots | open area | close to lounge, store, office |
| RESTAURANT | visitors, staff "good employment, jumper dining" | tables & chairs of various size for approx. 50 | air cond. heat - comfortable | "warm" lighting | quite area | close to bar kitchen, R.R. lounge |
| BAR | visitors, staff "warm employment, jumpers atmosphereshelves, etc., bar stools, tables & chairs for 20 | air cond. heat - comfortable | "warm" lighting | open area | close to restaurant, kitchen, lounge, R.R. |
| UPPER LEVEL RESTROOMS (2) | visitors, staff for R.R. jumpers, employs | MEn: w.c.(1), urinal (1), lev. (2) | air cond. heat - comfortable | "warm" lighting | sound control | close to restaurant, bar, lounge, and rack rooms |

Program/Space Summary 37
<p>| COMMONS AREA | Jumpers, staff | communal area for socializing | TV, lounge chairs (8), table(4), chairs (16), foos-ball machine, vending machine(6), shelves, display cases, telephone | air cond. | heat - controllable | light - controlled | close to rack rooms &amp; lockers/equip. room |
| WEIGHT ROOM | Jumpers, staff | area for visitors | work out | Universal wts., free wts., barbells, weights | air cond. | heat - well ventilated | lighting | sound controlled | close to locker/equip. room |
| RACK ROOMS (2) | Jumpers, staff | limited sleeping facility | bunk bed(14), lockers (16) | air cond. | heat - comfortable | &quot;warm&quot; lighting | &quot;quite area&quot; | close to locker/equip. &amp; common areas |
| LOCKER/EQUIP. ROOM | Jumpers, staff | equip. &amp; store. &amp; changing, jumper's store | lockers(60 - 1/2 &amp; 20 - full), benches (4), equip. racks &amp; hangers | air cond. | heat - well ventilated | lighting | open area | close to R.R. &amp; shower, common, chute folding rack rooms |
| JANITOR'S AREA | Janitor | cleaning equip &amp; limited store | mop sink, store shelves | well ventilated, lighting | task | unobtrusive, close to lobby, R.R. &amp; major space |</p>
<table>
<thead>
<tr>
<th>Section</th>
<th>Staff/Equipment</th>
<th>Storage/Equipment</th>
<th>Comfort/Facility</th>
<th>Close to/Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>KITCHEN</td>
<td>Staff, delivery, store, janitor,</td>
<td>Storage, tables, sinks, cutting</td>
<td>Air cond, lighting, control</td>
<td>Close to bar</td>
</tr>
<tr>
<td></td>
<td>cooking, staging, dish wash</td>
<td>area well</td>
<td></td>
<td>treatment,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ranges, griddles, fryers</td>
<td></td>
<td>delivery,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>warming trays, silver</td>
<td></td>
<td>kitchen staff</td>
</tr>
<tr>
<td></td>
<td></td>
<td>plate area, trays for</td>
<td></td>
<td>facility</td>
</tr>
<tr>
<td></td>
<td></td>
<td>staging, disposal, dish washer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KITCHEN STAFF</td>
<td>Staff</td>
<td>Staff lockers (10), w.c.</td>
<td>Air cond, lighting, control</td>
<td>Close to</td>
</tr>
<tr>
<td>FACILITIES</td>
<td></td>
<td>for work</td>
<td></td>
<td>kitchen &amp;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>prep., &amp; chair, filing</td>
<td></td>
<td>delivery</td>
</tr>
<tr>
<td></td>
<td></td>
<td>shelves</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DELIVERY AREA</td>
<td>Delivery personnel, staff</td>
<td>Shelves</td>
<td>Well, lighting, control</td>
<td>Close to</td>
</tr>
<tr>
<td></td>
<td></td>
<td>for delivery of food &amp;</td>
<td></td>
<td>kitchen &amp;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>equipment</td>
<td></td>
<td>store</td>
</tr>
<tr>
<td>CHUTE FULFILLING</td>
<td>Jumpers, staff, chute</td>
<td>Work tables (2), equipment racks</td>
<td>Air cond, heat, lighting, control</td>
<td>Close to chute</td>
</tr>
<tr>
<td></td>
<td>of chutes</td>
<td></td>
<td></td>
<td>repair, equip.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>locker, jump</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>field</td>
</tr>
</tbody>
</table>

Program/Space Summary 39
<table>
<thead>
<tr>
<th>Area</th>
<th>Purpose</th>
<th>Activities</th>
<th>Equipment/Tools</th>
<th>Additional Features</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>REST ROOM/SHOOWER AREA</td>
<td>Visitors</td>
<td>Jumpers, staff for R.R. use &amp; showers</td>
<td>MEN: w.c.(2), urinal (1), showers(2), benches &amp; hangers by showers WOMEN: same as men with no urinal</td>
<td>air cond, task lighting sound control close to locker/equip. rack room, wt. room, lobby, commons</td>
<td></td>
</tr>
<tr>
<td>CHP/STE REPAIR</td>
<td>Staff</td>
<td>for repair of chutes &amp; replacement of lost piece</td>
<td>work table, shelves, sewing machine, storage cab., hooks</td>
<td>air cond, task lighting sound control close to locker/equip. &amp; chute folding</td>
<td></td>
</tr>
<tr>
<td>HANGER</td>
<td>Visitors</td>
<td>store, repair of planes, lessons for 5 planes Omens 170 - 172</td>
<td>bleachers, chalk board, hanging harness, tool chests, shelves</td>
<td>well vented task lighting open area close to equip./locker area</td>
<td></td>
</tr>
</tbody>
</table>
5. Relationship Chart

- Lobby/Lounge
- U.S.P.A. Store
- Sales Storage
- Exhibition Area
- Restaurant
- Bar
- Kitchen
- Kitchen Staff Facilities
- Traffic Office
- Owner/Manager's Office
- Secretary's Area
- Weight Room
- Locker/Equipment Room
- Rest Room/Shower Area
- Hanger
- Commons Area
- Kitchenette or Vending Area
- Back Rooms
- Chair Folding
- Chair Repair
- Janitor's Area
- Delivery Area
- Parking
- Jump Field

Legend:
- Strong Relationship
- Relationship
- Minimal Relationship
6. Building Zoning

Zones: (by function)

Jumper's Processing:

<table>
<thead>
<tr>
<th>Traffic Office</th>
<th>515 sq. ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Locker/Equipment Room</td>
<td>430</td>
</tr>
<tr>
<td>R.R./Shower Area</td>
<td>490</td>
</tr>
<tr>
<td>Chute Folding/Repair</td>
<td>1,340</td>
</tr>
<tr>
<td>Hanger</td>
<td>11,050</td>
</tr>
</tbody>
</table>

Total 24,875

Office Area:

| Traffic Office | ------ sq. ft. |
| Owner/Manager's Office | 210 |
| Secretary's Area | 150 |

Total 360

Public/Visitor's Areas:

| Lounge/Lobby | 2,660 sq. ft. |
| R.R./Shower Area | ------ |
| U.S.P.A. Store | 1,950 |

Exhibition Area 2,700
Restrant 1,650
Bar 560
Upper Level R.R. 200
Weight Room 240

Total 7,300

Jumpers Areas:

| Commons Area | 925 sq. ft. |
| Weight Room | ------ |
| Rack Rooms | 850 |
| Locker/Equipment Room | ------ |
| R.R./Shower Area | ------ |

Total 1,775

Service Areas:

| Delivery Area | 330 sq. ft. |
| Kitchen | 750 |
| Kitchen Staff Facility | 125 |
| Janitor's Areas | 80 |
| Sales Storage | 170 |
| Miscellaneous Spaces | 5,550 (is. service, el-

Program/Zoning 42
<table>
<thead>
<tr>
<th>Description</th>
<th>Square Feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Under-Roof by Zones:</td>
<td></td>
</tr>
<tr>
<td>Jumper Processing</td>
<td>24,875 sq. ft.</td>
</tr>
<tr>
<td>Office Area</td>
<td>360 sq. ft.</td>
</tr>
<tr>
<td>Public/Visitor's Area</td>
<td>7,300 sq. ft.</td>
</tr>
<tr>
<td>Jumper Area</td>
<td>1,775 sq. ft.</td>
</tr>
<tr>
<td>Service Area</td>
<td>7,005 sq. ft.</td>
</tr>
<tr>
<td><strong>Sub-Total</strong></td>
<td><strong>41,315 sq. ft.</strong></td>
</tr>
<tr>
<td>Circulation (30%)</td>
<td><strong>12,394.5 sq. ft.</strong></td>
</tr>
</tbody>
</table>
| **Total**                         | **53,709.5 sq. ft.**

or **53,710 sq. ft.**

**Zones:** (by public/private)

**Open Public Areas:**
- Lobby/Lounge
- R.R./Shower Area
- U.S.P.A. Store
- Exhibition Area
- Restraunt
- Bar
- Upper Level R.R.

**Office Areas:**
- Traffic Office
- Owner/Manager's Office
- Secretary's Office

**Semi-Public Areas:**
- Weight Room
- Locker/Equipment Room
- R.R./Shower
- Hanger

**Semi-Private Area**

**Semi-Private Areas:**
- Commons Area
- Rack Rooms

**Program/Zoning** 43
Chute Folding

Private Areas:
    Janitors Areas
    Delivery Area
    Chute Repair

7. Building Criteria:

Function--
    The function of this Parachute Club is first and foremost to cater to the needs, desired, and processes of sky diving. As this is not an extremely popular sport it is also necessary to educate the public and try to relate this facility, as much as possible, to the public as a passive recreational facility. This can be done with the restraint/bar facility, and opening areas such as the weight rooms to the public, also by promoting the exhibition area.

Image--
    The image of this facility should relate directly to the excitement and thrill of the sport of sky diving. It should seem spacious yet compact (the thought of rambling should not be considered). The image should also convey the facilities diversity in spaces.

Flexibility--
    The possibilities of expansion should be considered in the design (particularly for the exhibition and rack areas) not only in specified spaces but in the adding of new forms of facilities that could interface with the function of this facility.

Interior Circulation--
    The circulation should be clear and concise, therefore simplifying the tasks of both jumpers and visitors. As the circulation should have definition it should not take on the aspect of "hall ways" as that would be in direct conflict with the image. It should clearly take the various organizational processes into consideration.

Security--
    I have listed the various required spaces according to "privacy" zones in the space summary (sec. 4).
As certain sections are very public spaces (lounge, exhibition, etc.) others are more private and a sense of security must be implied. Also the ability to secure certain areas must be considered.

Parking--
Should be able to accommodate at least 60 cars with consideration for deliveries and handicapped visitors. It should respond in a positive manner to the site and facility and be logically attainable.

Services--
Service for this facility should be considered by the designer in order that it should be efficient and yet unobtrusive.

Site Delination--
The boundaries of the site should be easily legible from extreme distances for the ease of the jumpers. The runway must also be delineated as it can not be paved.

Lighting--
As evening jumps are feasible exterior lighting is a must, this should include spot lighting, run

Program/Exterior

8. Exterior Criteria:

Access/Egress--
The entry onto the site must come from Jackson St. as this is the only street that borders the site. It should be located in such a manner as to be easily located.

Landscaping--
The site is exceptionally large due to the function of the facility and must remain free of most impedimentation. Also, an irrigation stream goes through the site and such extreme "identification" of the site at the jump area is to be avoided. However, due to the size of the site, landscaping will take on great importance in this project.
way lights, and general lighting in the hanger area.

Relation to the Interior--

A strong relationship must exist between the exterior and the interior of this facility as they have so much inter-corelations with functions and process.
Bibliography/Credits

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   Denver, CO. 1972
   806 15th St.
   N.W. Suite 444
   Washington, D.C. 20005

Green Co. Parachute Assoc.
   County Line Rd.
   Jenkinsburg, GA
   30234

Horan, Michael
   Box 1333
   Richmond, IN
   47374
   (Pres. of Parachuting Resources)

Poynter, Dan, PARACHUTING: A SKIDIVERS' HANDBOOK,
   Para Publishing, Santa Barbara, CA 1978