FLOODPLAIN DEVELOPMENT PERMIT APPLICATION
CITY OF MANITOU SPRINGS
COMMUNITY PLANNING AND DEVELOPMENT DEPARTMENT
606 Manitou Avenue, Manitou Spring, CO 80829 (Telephone: 684-5481)

PERMIT NUMBER ___________ ISSUED ON ___________

LOCATION OF PROPOSED CONSTRUCTION 40 SANDRA LANE ZONING RES
LEGAL DESCRIPTION ________________________________

NAME OF OWNER/APPLICANT TOM SHIPER DAYTIME TELEPHONE 634-4841
ADDRESS 833 N TEJON CITY COLO SPRINGS STATE CO
CONTRACTOR'S NAME MARK ENNIS DAYTIME TELEPHONE 896-0198
ADDRESS 1220 DOYLE PL CITY COLO SPRINGS STATE CO

DESCRIPTION OF PROPOSED WORK

✓ New Building

✓ Residential

____ Non-residential (please describe) ________________________________

____ Addition/Alteration (please describe) ______________________________

____ Mobile Home Placement

____ On Single Lot

____ In Mobile Home Park

____ Subdivision of Land

____ Fill

____ Watercourse Alteration

____ Fill

____ Other (please describe) ________________________________

ESTIMATED COST $ 90,000

THE FOLLOWING INFORMATION MUST BE SUBMITTED WITH THIS APPLICATION:

1. Mean Sea Level (MSL) elevation of the lowest floor (including basement) of all proposed structures
2. MSL elevation to which any proposed structure will be floodproofed
3. Certification by a registered professional engineer or architect that the floodproofing method meets Manitou Springs floodproofing criteria
4. Plans of the development to be undertaken, including any filling and any watercourse or drainage way alteration

THE FOLLOWING INFORMATION MAY ALSO BE REQUIRED:

1. A description of the extent to which any watercourse will be altered or relocated
2. Base (100-year) flood elevation data for a development or subdivision greater than 50 lots or 5 acres

---OVER---
Floodplain & Enumeration F P
1. 6504
2. 46 SANDRA
THE FOLLOWING IS TO BE COMPLETED BY THE LOCAL ADMINISTRATOR:

The proposed development is located in the

X Floodway deck + bridge columns

____ Flood fringe

Y Outside of the Special Flood Hazard Area Main structure - (house)

The Base Flood Elevation or depth number at the development site is 6.25 feet

The minimum required Base Flood Elevation or depth number is 6.25 feet

Source Documents: 1983 M.S. Flood Insurance Study

Map Effective Date: ___________2-1-84_________

PLAN REVIEW

M.S. elevation or depth number to which the structure is to be elevated or floodproofed is _________ feet NA

Are necessary information, certificates, and other permits attached?

X Yes ____ No

ACTION:

X PERMIT IS APPROVED—The proposed development is in conformance with applicable floodplain standards with the conditions below:

____ PERMIT IS DENIED—The proposed development is NOT in conformance with applicable floodplain standards, as follows:

________________________________________

________________________________________

____ NO PERMIT IS NECESSARY

Signature, Local Administrator ______________________ Date 2-7-85

ELEVATION CERTIFICATION

The certified as-built MSL elevation of the lowest floor is NA

The certified as-build MSL floodproofed elevation of the structure is NA

Certificates of a registered professional engineer or land surveyor documenting these elevations are attached.

Signature, Local Administrator ______________________ Date _________

Conditions:

Detailed drawings of deck columns and piers be approved

Methods to prevent scouring around piers be submitted and approved

Stair risers and railing gaps

A storage of equipment or materials in the floodway
EXPERIMENTAL RESIDENCE

COLUMN CAPACITIES IN FLOODWATERS: 6x6 columns
or water flow @ 10.9 ft/sec

\( F_x = \frac{62.4 \cdot (1' \cdot 4583') \cdot (10.9) \cdot 10.9}{32.2} \)

\( F_x = 105.5 \text{ Pounds/Linear Ft.} \)

CHECK FOR 6x6 CALIFORNIA REDWOOD COL'S; #2 GRADE
4.77' max ht to 100 yr. Flood Plane

\( M = \frac{105.5 \cdot (4.77^2)}{2} \)

\( M = 1200.2 \text{ Ft. lb.} \)

\( 6x(\text{req'd}) = \frac{1200.2 \cdot (12)}{1200 \cdot (1.15)} = 60.42 \text{ in}^3 \)

\( 6x6 \geq x = 27.729 \text{ in} \)

\( V = 105.5 \cdot (4.77) = 503.16 \)

\( \frac{1}{2} = 80 \leq \frac{3 \cdot \text{(503)}}{2 \cdot (30.25)} \)

\( 80 \leq 24.9 \text{ ok} \)

6x6 Redwood #2 col's embedded in 12" x 36" deep conc. piers.
FEDERAL EMERGENCY MANAGEMENT AGENCY
NATIONAL FLOOD INSURANCE PROGRAM

ELEVATION CERTIFICATE

This form is to be used for: 1) New/Emergency Program construction in Special Flood Hazard Areas; 2) Pre-FIRM construction after September 30, 1982; 3) Post-FIRM construction; and, 4) Other buildings rated as Post-FIRM rules.

This is to certify that the information on this certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. code, Section 1001.

SECTION I ELIGIBILITY CERTIFICATION
(Completed by Local Community Permit Official or a Registered Professional Engineer, Architect, or Surveyor)

<table>
<thead>
<tr>
<th>COMMUNITY NO.</th>
<th>PANEL NO.</th>
<th>SURFAX</th>
<th>DATE OF FIRM</th>
<th>FIRM ZONE</th>
<th>DATE OF CONSTR.</th>
<th>BASE FLOOD ELEV. (in AO Zone, use depth)</th>
<th>BUILDING ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>08000000</td>
<td>00000</td>
<td>0001</td>
<td>08-01-84</td>
<td>A5</td>
<td>NEW</td>
<td>C44E.6</td>
<td>NEW</td>
</tr>
</tbody>
</table>

YES NO [ ] It is intended that the building described above will be constructed in compliance with the community's flood plain ordinance. The certifier may rely on community records. The lowest floor (including basement) will be at an elevation of 24 ft, NGVD. Failure to construct the building at this elevation may place the building in violation of the community's flood plain management ordinance.

YES NO [ ] The building described above has been constructed in compliance with the community's flood plain management ordinance. If the NO is checked, attach copy of variance issued by the community.

YES NO [ ] The mobile home located at the address described above has been tied down (anchored) in compliance with the community's flood plain management ordinance, or in compliance with the NFIP Specifications.

MOBILE HOME MAKE | MODEL | YR. OF MANUFACTURE | SERIAL NO. | DIMENSIONS X
|-----------------|-------|-------------------|------------|----------------|

(Community Permit Official or Registered Professional Engineer, Architect, or Surveyor)

NAME DAVID LANGLEY
ADDRESS 6-17-85
CITY WOODLAND PARK
STATE CO
ZIP 80863
PHONE 687-3415

SECTION II ELEVATION CERTIFICATION
(Certified by a Local Community Permit Official or a Registered Professional Engineer, Architect, or Surveyor.)

FIRM ZONE A1-A30: I certify that the building at the property location described above has the lowest floor (including basement) at an elevation of 24 ft, NGVD (mean sea level) and the average grade at the building site is at an elevation of 24 ft, NGVD.

FIRM ZONES V, VI-V30: I certify that the building at the property location described above has the bottom of the lowest floor beam at an elevation of 24 feet, NGVD (mean sea level), and the average grade at the building site is at an elevation of 24 feet, NGVD.

FIRM ZONES A, A99, AO, AH, and EMERGENCY PROGRAM: I certify that the building at the property location described above has the lowest floor elevation of 24 feet, NGVD. The elevation of the highest adjacent grade next to the building is 24 feet, NGVD.

SECTION III FLOODPROOFING CERTIFICATION
(Certification by a Registered Professional Engineer or Architect)

I certify to the best of my knowledge, information, and belief, that the building is designed so that the building is watertight, with walls substantially impermeable to the passage of water and structural components having the capability of resisting hydrostatic and hydrodynamic loads and effects of buoyancy that would be caused by the flood depths, pressures velocities, impact and uplift forces associated with the base flood.

YES NO [ ] In the event of flooding, will this degree of floodproofing be achieved with human intervention? (Human intervention means that water will enter the building when floods up to the base flood level occur unless measures are taken prior to the flood to prevent entry of water (e.g., bolting metal shields over doors and windows).

YES NO [ ] Will the building be occupied as a residence?

If the answer to both questions is YES, the floodproofing cannot be credited for rating purposes and the actual lowest floor must be completed and certified instead. Complete both the elevation and floodproofing certificates.

FIRM ZONES A, A1-A30, VI-V30, AO and AH: Certified Floodproofed Elevation is 24 feet, NGVD.

THIS CERTIFICATION IS FOR [ ] SECTION II [ ] BOTH SECTIONS II AND III (Check One)

CERTIFIER'S NAME: DAVID LANGLEY
COMPANY NAME: ARCHITECT
LICENSE NO. (or Affix Seal) B-1422
ADDRESS 6-17-85
CITY WOODLAND PARK
STATE CO
ZIP 80863
PHONE 687-3415

SIGNATURE

The insurance agent should attach the original copy of the completed form to the flood insurance policy application, and the second copy should be supplied to the policyholder and the third copy retained by the agent.

INSURANCE AGENTS MAY ORDER THIS FORM

OMB 3057-0077

593-117