



FISHER DEN BOX DRAWINGS

PREPARED FOR:
DAVIS ENVIRONMENTAL

PREPARED ON:
24/20/2015

PREPARED BY:
MICHAEL BRINONI, ASCT



**HABITAT
CONSERVATION TRUST
FOUNDATION**



**FISH AND WILDLIFE
COMPENSATION PROGRAM**

The FWCP is a partnership of:
BC hydro FOR GENERATIONS
BRITISH COLUMBIA
Canada Fisheries and Oceans
Canada



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DESIGN & CONSTRUCTION
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**Davis
Environmental Ltd.**



STAMP

PROJECT:
FISHER DEN BOXES
SHEET:
COVER

Sheet Number	Sheet Name
1	COVER
2	PLAN
3	PHOTO DESCRIPTION

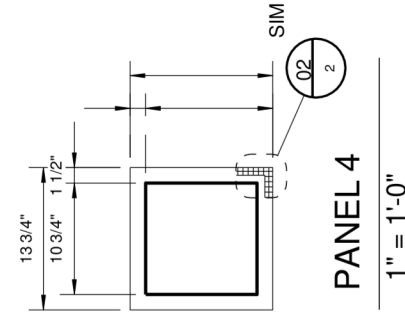
SCALE: 1/2" = 1'-0"		FIELD CREW:	SHEET NUMBER:
DESIGNED BY: LD	DATE: 24/02/2015		1
DRAWN BY: MB	REVISION NUMBER:		
CHECKED: LD	REVISION DATE:		
SITESURVEY: N/A	JOB #: p506		

- PANEL 1:**
- 2 LAYERS 3/4" PLYWOOD
 - FASTEN LAYERS TOGETHER WITH 1 1/4" SCREWS @ 6" O.C. SPACING
 - MIN. 2 1/4" EDGE DISTANCE, OVERHANG ON LOW SIDE

- PANEL 2 THROUGH 4:**
- 1 LAYER 3/4" PLYWOOD
 - 1 LAYER 3/4" UNFIBERED STYROFOAM INSULATION
 - 1 LAYER 3/4" PLYWOOD
 - LAMINATE THROUGH ALL LAYERS WITH 2" SCREWS @ 6" O.C. SPACING
 - MIN. 1" EDGE DISTANCE

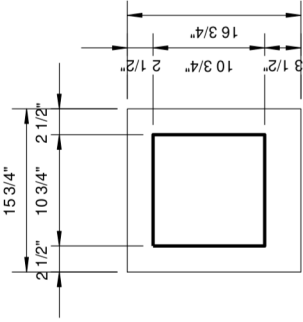
FASTEN ALL PERPENDICULAR EDGES WITH #8 X 2" ZINC COATED SCREWS @ 4" O.C. STAGGERED (SEE DETAIL 02)

- MATERIAL TAKE-OFF:**
- 2 SHEETS OF 3/4" CSP PLYWOOD
 - 1 SHEET OF 3/4" UNFIBERED STYROFOAM
 - 130 PCS. #8 X 2" ZINC COATED SCREWS
 - 25 PCS. #8 X 1 1/4" ZINC COATED SCREWS



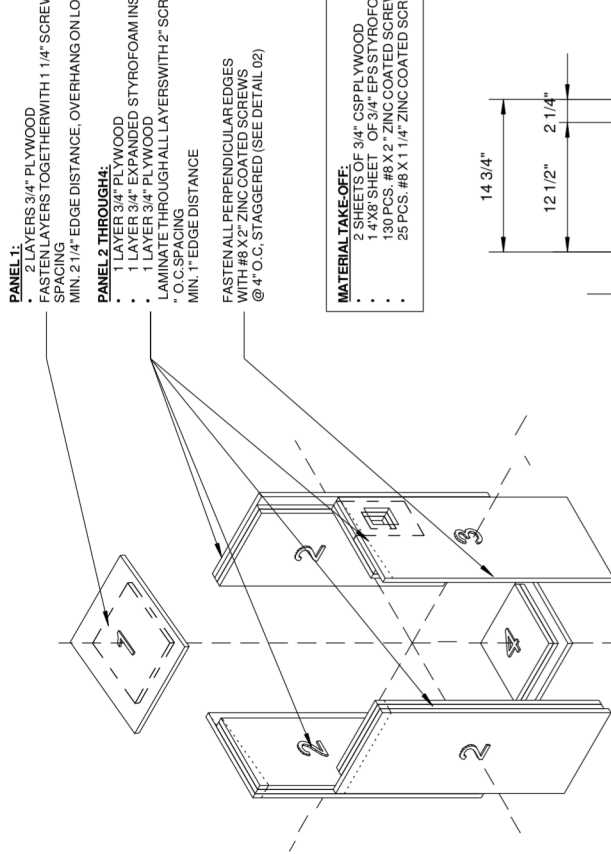
PANEL 1

1" = 1'-0"



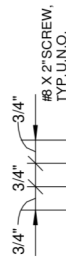
PANEL 2, TYP.

1" = 1'-0"



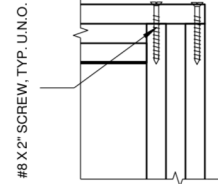
EXPLODED VIEW

CUT ROOF SLOPE AFTER SIDES ARE ASSEMBLED. SEE EXPLODED VIEW FOR ORIENTATION



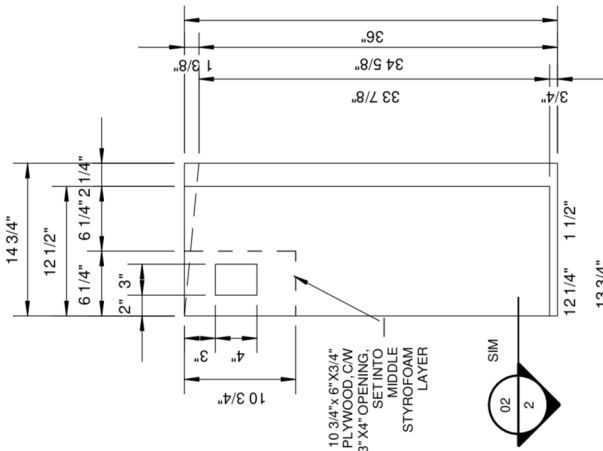
DETAIL 01

3" = 1'-0"



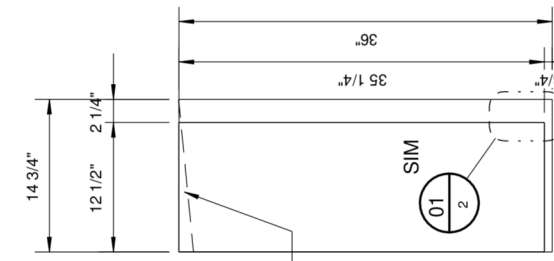
DETAIL 02

3" = 1'-0"



PANEL 3

1" = 1'-0"



PANEL 4

1" = 1'-0"

Construction notes: Use exterior grade screws on all panels

1. Assemble the 4 side panels (panels 2 & 3) with foam cores. A 6" x 10 3/4" plywood core section is required where the door hole will be cut. Keep screws at least 2" from the top and bottom of the panels.
2. Use carpenters glue and 2" screws to fasten the four sides of the box together.
3. The top of the box is cut at approximately 5 degree slope to shed water. One way to do this is to measure down 1/4" at the high side and 1 5/8" on the low side (e.g. away from the door). Draw a line through these marks and cut the sides with a circular saw. Then angle the saw blade at 5 degrees and cut across the front and back to meet the side cuts.
4. Assemble the bottom (#4) panel which is designed to sit inside the side panels. Fasten with 2" screws.
5. Cut the entrance hole. Use a 3/4" wood bit to make each corner of the door hole (3x4") and finish with a jig saw.
6. Make top panel (#1) which can be fastened in place with 2 - 2" screws.
7. Put approximately 6" of insulation in bottom. We have used wood shavings, but dry rotten wood from local trees is also likely to be good and may smell more natural.
8. We have used a dark colored water based stain to help preserve the box.



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PROJECT: FISHER DEN BOXES

SHEET: PLAN

STAMP

SCALE: As indicated
 DESIGNED BY: Designer
 DRAWN BY: MB
 CHECKED: LD
 SITESURVEY: N/A

FIELD CREW:
 DATE: 10/19/12

REVISION NUMBER: 1
 REVISION DATE: 15 NOV

JOB #: p506

SHEET NUMBER:

2



Preparing panels



Cutting the door opening



Assembling the box panels



Finished den box



Cutting the sloped top of the box



Stained den box with battens



Erecting denbox notes:

Erecting denbox notes:

1. Find a location that fisher frequent. Den trees in BC are often found along streams and wetlands, but are usually back from an opening so that the female can approach using cover.
2. Hang the box on a relatively large diameter (e.g. larger diameter than the box if available) healthy tree, located on relatively flat ground, at approximately 8-12 feet high.
3. Screw 3-15" long 1 1/2 x 1 1/2" battens onto the back of the box at the top and bottom using 3 - 2 1/2" #10 screws. Note that while the photo shows 2 horizontal battens, this is a weak point when the box is hanging. A third batten in the middle of the box provides the needed strength.
4. Screw 2-36" long 1 1/2 x 1 1/2" battens vertically onto the 15" battens using 4 - 4" #10 screws. The battens should be screwed to the side of the box closest to where the door is located. Space the vertical battens to allow the horizontal battens to just touch the tree and prevent the box from rocking on the tree.
5. Fasten a chain and pulley firmly to the tree at a point above where the box will hang. Thread a rope through the pulley and tie it securely to the battens on the back of the box. Pull to the correct height.
6. Fasten the box to the tree with 3 wraps of plastic coated wire (clothesline) and clamps. Once it is fastened, pull down on the box to jam it against the tree. If the box still rocks, use a branch for a shim between the box and the tree.
7. Ideally, a branch will be located on the tree near the door to help the fisher access the box. Where this is not available, we have screwed a branch between the box and tree.
8. We have hung scent strings under the box to speed up the time it takes for fisher to find it. Providing a piece of bait inside also seems to improve the chances of a fisher entering the box. These actions should be taken until a fisher is using the box, then discontinue to avoid disturbing the animals.



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PROJECT: FISHER DEN BOXES
 SHEET: PHOTO DESCRIPTION

SCALE:	FIELD CREW:	SHEET NUMBER:
DESIGNED BY: Designer	DATE: 05/02/13	
DRAWN BY: MB	REVISION NUMBER: 1	
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