



## October 2010 Newsletter

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### Note from the editor

*Last month, when I sent out the newsletter (via email), I did the unthinkable, I attached the wrong file. You received an earlier version of the September Newsletter which was much shorter than the one I planned to send. Rather than burden you with a second September Newsletter I thought it better to "burden" you with a longer one in October. The beauty of the hyperlinks is that you only need look at what interests you.*



Standard 200x200 recycled



Outdoor Structures Australia Pioneer post

### Pioneer posts

What are your thoughts on the post on your left? It is an expensive piece of recycled timber cut from an old power pole. It is easy to think that, because it is a piece of timber that was cut from a tree felled perhaps 40 years ago, it has to be seasoned.

In reality the pole was too large to dry and the centre would have been above 25% moisture content which is the point shrinkage starts to occur. Once the pole is resawn the centre acts like a piece of freshly milled timber straight from the bush. The outside starts to shrink, the inside remains moist and does not shrink so causing the split. The heart at the centre of the piece degrades.

This type of unsatisfactory performance is what led to the development of our Pioneer post. The image on your right shows Pioneer posts which are dressed, but also have pencil rounded corners, three pencil rounded expansion grooves, and very importantly a cap. The bollards pictured also have a Tanacoat charcoal stain, see new colour chart below.

I have written on how to detail a rough sawn heart centre post - see link below.

Next month I plan to do a feature on timber treatment. Do you have any questions you want answered? This is really a very complex issue.

## Links

How to detail a rough sawn heart centre post [http://www.outdoorstructures.com.au/pdf/etdn\\_3.pdf](http://www.outdoorstructures.com.au/pdf/etdn_3.pdf)

Pioneer posts can be seen at: <http://www.outdoorstructures.com.au/gallery.php?gid=92&SID=22>

Boardwalk Design Guide: <http://www.outdoorstructures.com.au/pdf/boardwalk-design-guide-3.pdf>

## Update to Technical Guides

Since our last newsletter one of our readers asked how much change of direction can you have at a post when using stainless wires.

It appears that someone made a large change of direction on a laminated timber post and consequently the post was damaged by the force of the wires.

We have added a new section covering design considerations at changes of direction when using either steel or timber posts.

Refer to pages 24 and 25 of the Commercial Barrier guide, follow the link below.



How not to change direction with wire ropes

## Links

<http://www.outdoorstructures.com.au/pdf/commercial-barrier-guide-10b.pdf>

## Update to Tanacoat Colours

The most popular Tanacoat tint is Charcoal but it was not on our original brochure. We have revised the brochure on the web to include this colour

## Links

[http://www.outdoorstructures.com.au/pdf/tanacoat\\_brochure.pdf](http://www.outdoorstructures.com.au/pdf/tanacoat_brochure.pdf)



## Bridges at Fitzgibbon



New (left) and refurbished bridge (right) by OSA with P7 Barrier

Asset Owner:	Urban Land Development Authority
Landscape Architect:	Place Design Group
Landscape Architect:	Place Design Group
Landscape Architect:	Landscape Solutions
Bridge Supply:	Outdoor Structures Australia
Consulting Engineering 1997:	James Pierce and Associates
Consulting Engineering 2010:	James Pierce and Associates

### **New Bridge:**

The new bridge is a standard Stuart bridge fitted with a Carrs style handrail (barrier P7 from our Commercial Barrier Guide). This particular bridge uses a steel post instead of timber. **Note that this is bridge code compliant handrail, not pool fencing**

### **Refurbished Bridge:**

Back in 1997, One of the first bridges we supplied was a 2 span x 10m long footbridge with Lockyer handrail as part of a development adjacent to what is now Fitzgibbon Chase. The bridge was in such good condition that it was decided to reinstall the bridge in a new location with only the handrail updated to match the co-located newly installed bridge. This refurbished bridge shows that our timber structures are not temporary structures.

More images of this project and use of this handrail on other jobs can be seen by following the links below:

### **Links**

<http://www.outdoorstructures.com.au/gallery.php?gid=103&SID=2>

<http://www.outdoorstructures.com.au/gallery.php?gid=83&SID=2>

<http://www.outdoorstructures.com.au/gallery.php?gid=99&SID=5>

<http://www.outdoorstructures.com.au/gallery.php?gid=9&SID=1>

## ***Bridge at Everton Hills***



Log Bridge with P5 Barrier

This bridge, with an overall length of 25.6m incorporates two spans at 8.3m and 1 at 9.0 m. The handrail is P5 (minus the grabrail) from our Commercial Barrier Guide. The Client is extremely happy. More images can be seen by following the link below

### **Links**

<http://www.outdoorstructures.com.au/gallery.php?gid=102&SID=2>

## ***Observation Deck Ipswich***

This small deck in Ipswich uses the latest version of our P8 Handrail system. We were able to fine-tune the corner post details to reduce the cost of the wire rope fittings.

This particular deck uses our OSA2 tamper resistant wire rope system. More images can be seen by following the link below.

### **Links**

<http://www.outdoorstructures.com.au/gallery.php?gid=101&SID=5>



Deck using P8 Handrail

## ***Brochure for Somerset Bridges Available***

A brochure is now available for our new track bridge which we have called the “Somerset”. It is designed to be used in situations where access is so poor that a helicopter is needed. Briefly, the advantages of the Somerset bridge are:

- lower profile
- less intrusive visually
- significant inundation possible
- tube catches less debris
- timber or metal decking
- Ideal for spans up to 9.0m
- lightweight & compact
- Intended for difficult locations
- variety of handrails possible



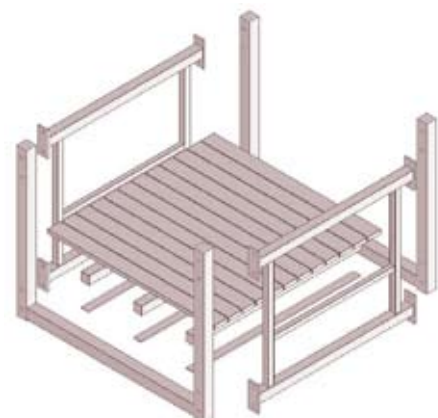
One of the possibilities of the Somerset Bridge

### **Link**

Somerset Bridge Brochure: <http://www.outdoorstructures.com.au/pdf/osa-summerset-series-bridge.pdf>

## ***Brochure for Segmented Bridges Available***

- 3.0m to 12.0m in 1.5m increments
- Modular construction
- To Class 3 Walking Track Infrastructures
- Safely carry an ATV with trailer & load
- Clearance to flood/debris is maximised
- Different decking available
- Galvanizing inside & out
- Maximum component weight is 60 kg



Exploded view of segment module

Some bridges on remote walking tracks simply cannot be delivered assembled. The segmented bridge was born from the need to develop a bridge capable of larger spans, for lighter loads than our timber demountable bridge with its limit of 6m span. The bridge is designed for the practical loadings encountered on typical walking tracks and consequently does not meet the onerous requirements of the AustRoads Bridge Code. Follow the link to the new brochure.

### Link

<http://www.outdoorstructures.com.au/pdf/osa-segmented-timber-bridge.pdf>

There is one new bridge brochure to come, an authentically styled Japanese bridge

## ***Bridge Quote Requests***

If there is any doubt that OSA make the best kit bridges in the country look at the Berrinba Wetlands Project. Not all bridges are equal. After encountering three bridges in one month that did not meet the Bridge Code I wrote the May newsletter. Refer to the May OSA Newsletter when assessing the suitability of quotes.

See our Steel Bridge Quotation Request Form and our Timber Bridge Quotation Request Form

Steel Bridge Quotation Request Form

[http://www.outdoorstructures.com.au/bridge\\_request.php?Mode=st](http://www.outdoorstructures.com.au/bridge_request.php?Mode=st)

Timber Bridge Quotation Request Form

[http://www.outdoorstructures.com.au/bridge\\_request.php](http://www.outdoorstructures.com.au/bridge_request.php)

Regards

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