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	REVISED FOOTING DETAIL (8-29-20)  All POINTS  BILL Board
	REPAIR.
	7-30-20 3/
	UPLITT:
	2100x 22.5 = HR, +10R2
	USE (E) R2 FOUNDATION
	Friction = 100 PSF X 4' deep X 2.42 = 968#
	BEARING = 900PG X 1.772' = 883#
	1851#
	Z100x2Z= 14P_+10 (968)
	R, = 2684 # V
	Add conc wt.
	71(1.52)/4 × 3' ×150 = 795#/805T
	2684/6 + 795 = 1242#/POST
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	(N) REAR POST FOUNDATION
	27 18" x3' deep conc.
	PROFESSIONAL
	PROFESSIONAL EX E. EL COCHE
	SS NO. 41457 CX SS
	8/29/20 Hand Clarel
	Car CIVIL IN
	Altarreta Footings (MAIN)  Friction = 100PSFX5' deep X4.71 = 2356#
	Friction = 100PSFX5' deep x4.71 = 2356#
	BEARING = 900 PSFX1.77 = 883#
. ,	1242# < 32=9#OK
	=> (N) MAIN POST FORINISATION
	-> (N) MAIN POST BUNISATION Ly 18" x5' deg) conc.

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PLANS \* CONSTRUCTION \* SPECIAL PROJECTS \* SHORING \* TEMPORARY SYSTEMS

Stanley Bicock, P.E. C41457

Client: Alipoints Signs, Owner

Project: Sign Repair

Location:

Highway 101 Between Eureka and Arcata Eureka, CA.

**CALCULATIONS** 

Framing

References

2016 California Building Code

Western Woods Use Book

BULL BOARD PERME 12-3-19 du lal A 25 PS 29X12X40 = 12000#754 25 PSEX 12 X7 = 2100#/POST 32000 F-15/POST 07M 7=2100# 2100x/6=18/8,+ FOR 2x6: 1244/8.25= 15/ pai (12/1,52) = 15/ Lmx FOR 2X8: 1244/10.88 = 1/4 PSC 14 V2 = Z1 USE EXEP.T. DF No. ) BRUE W/2-2x6 C W/2-505 X31/21 Flat ZX

ALLIPOINTS

to ZYB diagonal Draws

BUBORED

= 300 # POINT LOAD

31 g	SEE REVISED FOOTING DETAIL  All Points
	BILL BEARD
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	(2585FX2)(25) /2 X12/850X/25 = 1.76m3 (F)
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	6d = 26#/n x1.5" = 39# 50PSFX 2'X7' = 700#
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## **Reconstruction Plan**

Construction and reconstruction of billboards is performed by a 3-5 man crew and is expected to take 2-4 days. No construction equipment is needed. We use shovels and post hole diggers for the post, battery powered hand tools, ladders, and clamps, bolts and screws. No temporary structures or materials are required to reconstruct, IE we do not need to build scaffolding or set temporary brace post of any kind.

Below is a general workflow for how this location will be repaired.

- Crews will began demoing all non-reusable elements of the structure. This consist of using sawzalls to cut wood into sizes we are able to carry. Once small enough to carry all nonusable elements are stacked in a pile on the shoulder of the highway behind the guardrail.
- 2. Once all non-usable parts are removed we will begin repairing the structure. A number of the vertical supports for the billboard actually broke about 8' up the post. In these cases, the vertical uprights will be reused. Six (6) of the damaged posts will need to be replaced with new wooden framing. Three (3) of the posts to be replaced are main vertical supports (4x6) and the other three (3) posts (2x6) tie to horizontal bracing at the rear of the billboard. Holes for the six (6) new posts will be 18 inches wide and dug within the same location as the holes for the damaged supports they are replacing. Holes for the three (3) new main vertical supports will be 5 feet deep and holes for the three (3) new rear brace supports will be 3 feet deep. Concrete will be poured into each hole during installation of the six (6) new posts.

- 3. Once all post holes are dug we set new upright in holes and hand mix bags of concrete into each hole one bag at a time.
- 4. Once all posts are set you connect main post to back brace post.
- 5. Run new horizontal stringers connecting all main posts.
- 6. Mount front and rear catwalks.
- 7. Sheet face with plywood
- 8. Install new billboard wrap

## **Best Management Practices**

As already outlined above, the repair and maintenance of a billboard structure has a very minimal impact as it is just a few people working with hand tools.

No gas-powered construction equipment is used so there is nothing to spill.

All new materials are stacked on the shoulder of the highway behind the guardrail until they are needed.

Construction debris only consist of empty bags of concrete and off cuts of wood, once created all bags are put into a trash bag and all off cuts are stacked on the shoulder of the highway until they are loaded up.

Soil from post holes will be minimal. During excavation of the new holes, care will be taken to ensure no spoils are deposited within nearby wetland habitat. All spoils will be staged in buckets before being removed from the site.