

Robert Miner Dynamic Testing, Inc.

Consulting, Dynamic Measurements and Analyses for Deep Foundations

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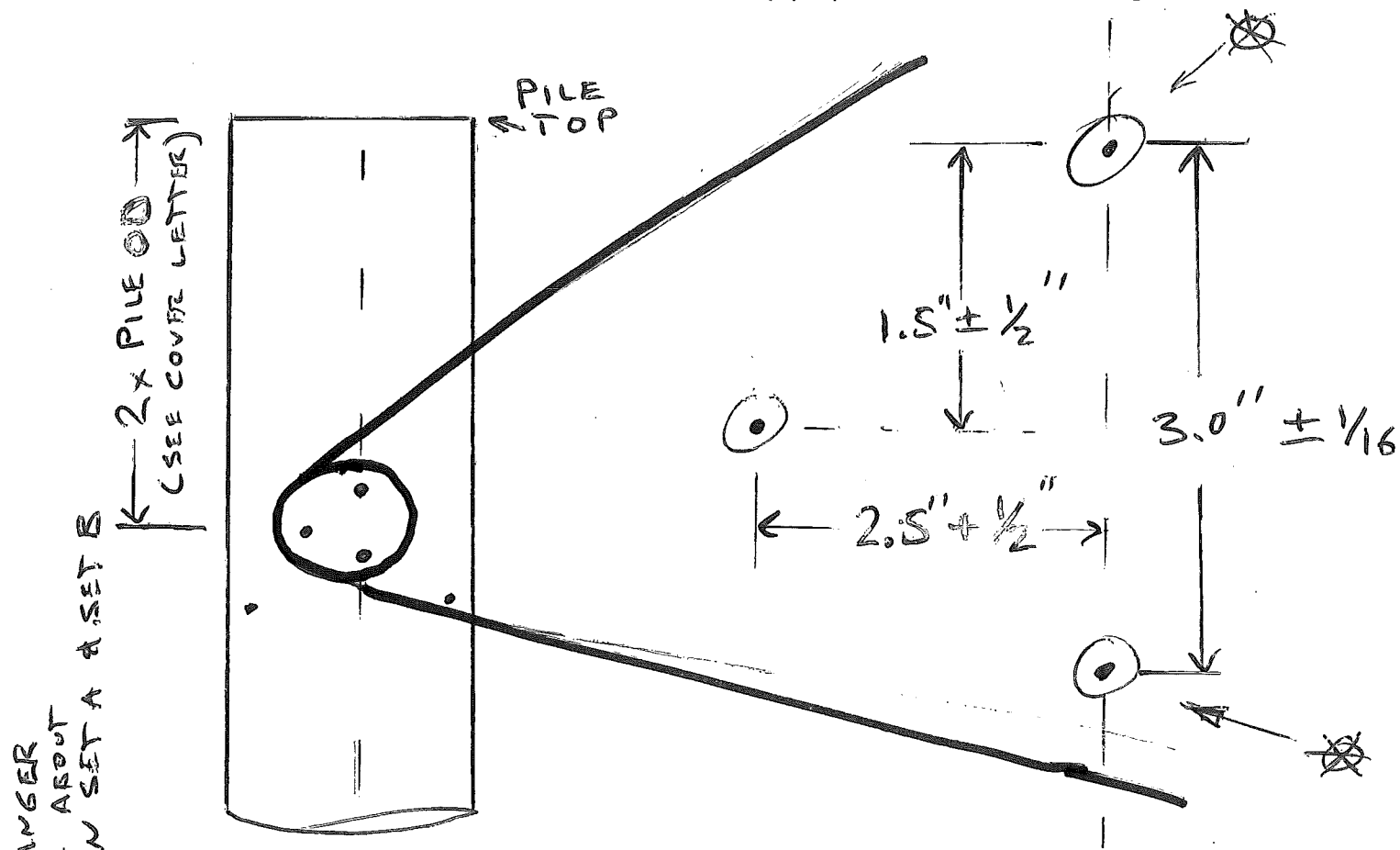
Re: Layout for Holes Used by PDA Sensors on Steel Pipe Piles

1. An attached page gives the layout for threaded holes needed for attachment of our testing sensors to a steel pipe pile. If using standard box leads and a helmet, then the highest *sensor* hole should be 2 pile diameters below the pile top (see sketch). If readily feasible, we would prefer that the highest *sensor* hole be ~3 to 4 pile diameters from the pile top. If offshore leads are used, we suggest drilling the *hanger and sensor* holes below the reach of the bell and thus out of harms way.
2. We recommend calculating the expected pile stick up at end of driving before drilling sensor holes to insure adequate clearance.
3. Holes must be drilled at least 6" away from any spiral or longitudinal seam weld. Holes should be at least 2 ft from any pile splice.
4. Care should be taken to get holes **perpendicular** to the pile surface ("radial").
5. All holes must be tapped for 1/4-20 threads. **We generally drill with a 7/32 bit.** A 7/32 hole is slightly oversize compared with what a machine shop would drill for 1/4-20 threads. But drilling with 7/32 makes tapping easier and quicker and gives adequate strength. The person doing the tapping must hold the tap carefully and steady or the tap will damage the threads, especially near the top of the hole. If convenient, blow the threaded holes out with WD40 to clear chips and ready for use by a guy working in the leads.
6. Circle the holes with a paint stick mark so that they can be easily found by a worker climbing the leads, or spotted from a man-basket.
7. If a hole is ruined by a broken tap etc, then the new hole must be at least two inches from the old hole and if it is in one of vertical pairs shown with a 3.0" spacing then the other hole in the pair must also be moved or replaced.

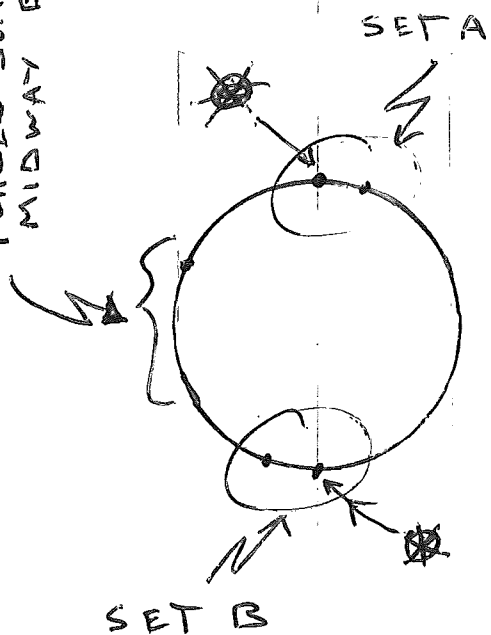
Please call RMDT if any questions arise associated with these instruction or regarding any other aspect of our testing procedures.

Bert's Cell: 360-865-3317

Andrew's Cell: 360-865-1667



HOLE FOR CABLE HANGER
PLACED SOMEWHERE ABOUT
MIDWAY BETWEEN SET A & SET B



Notes

- Seven Holes total.
- All tapped for 1/4"-20 thread.
- Recommended drill bit size is 7/32".
- Set B is rotated about approximately 180 degrees from Set A. (180 ± 10 degrees)
- All hole must be drilled and tapped perpendicular to the pile surface.
- Be especially careful with the holes marked with an ~~⊗~~ ; use a center-punch to make sure the spacing is 3" and that both holes are on the pile's long axis.
- The single hanger hole may can be shifted somewhat for convenience, but for piles larger than 24" OD the hole should be approximately midway between Sets A and B. Hanger hole should always be at least 6" to one side of any Set.