



**TECHNICAL MEMO NUMBER - 20180130**

**Tuesday 30 January 2018**

**TO:** James Bouquet, P.E.  
Steve McAlearney

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**FROM:** Michael Barnett, PE – Tt

**PROJECT:** City of Key West ITB Number 18-011: Rest Beach Stabilization

**SUBJECT:** Bid Award Recommendation

**Purpose and Background**

Tetra Tech was contracted by the City of Key West (City) to provide engineering services for the permitting, design, and construction oversight of the Rest Beach Stabilization Project (Project). The City received eight (8) bid proposals in response to Invitation to Bid Number 18-011. The ITB package included options for increased corrosion resistance, drivability, and alternate sheet pile sections. The purpose of this Technical Memorandum is to provide an evaluation of the bid responses and an award recommendation that provides the lowest total cost to the City while providing reasonable performance and longevity of the steel sheet pile wall.

**Award Recommendation**

All eight bidders, by virtue of the information and forms submitted, were deemed responsive and responsible. Tetra Tech recommends that the City select **Kiewit Infrastructure South Co.** (Kiewit) to install the specified EZ-95 ASTM A572, Grade 50 steel sheet piling, with coal tar epoxy coating applied to the sheets prior to driving/installation (Base Bid plus Add Alternate #2). According to their submitted bid, the total of this contract based on the schedule of values is \$961,545.48. This recommendation is based on the following:

- United States Army Corps of Engineers Technical Note EM-CR-1.6 recommends selection of the most economical corrosion resistance option provided; either A690 or a protective coating.
- Based on the 8 bids received, the total project cost inclusive of installation of coal tar epoxy coated ASTM A572 steel sheet piling is approximately \$62,700 less than ASTM A690 steel sheet piling.
- Kiewit provided the lowest bid to install coal tar epoxy coated ASTM A572 EZ-95 steel sheet piling.
- Given the subsurface geotechnical conditions determined at the site, Tetra Tech does not feel that sheet pile points are necessary for the successful installation of the sheets. Should the Contractor determine that such points are in fact necessary to facilitate driving of the sheet pile sections into the substrate, the cost of this component is known, and the pricing provided by Kiewit (\$63,777) appears to be consistent with the values provided by most of the respondents.

A summary tabulation of the base bid, corrosion resistance and drivability is provided in Attachment 1.

A detailed tabulation of each of the submitted bid elements was provided for City information and use under separate cover. This tabulation included some assumptions that were required based on differing apparent pricing rationale applied by some of the respondents, particularly with regard to alternative sheet pile sections (the Addendum # 2 introduced deductive alternative). We have included these deductive alternative monetary values where appropriate. While nearly all of the alternative sheets that were proposed are comparable from a structural stability/performance perspective, in most instances the sheet thicknesses of the web/flange of the offered deductive alternates are less than that which was specified, which is of concern to us with regard to longevity of the wall once in place.

Should there be any questions concerning this Technical Memorandum, please contact Michael Barnett at (251) 405-4862 or by email at [michael.barnett@tetrattech.com](mailto:michael.barnett@tetrattech.com).

### ATTACHMENT 1 – BID SUMMARY

	Base Bid (A572)	Corrosion Resistance		Drivability
		Alt #1 (A690)	Alt #2 (Coating)	Alt #3 (points)
Coral Construction Company	\$1,363,323	\$1,403,337	\$1,431,270	\$108,514
Dickerson Florida, Inc.	\$2,481,471	\$2,509,551	\$2,572,067	\$97,730
Ebsary	\$1,060,044	\$1,076,541	\$1,119,157	\$66,970
Douglas N. Higgins, Inc.	\$1,027,000	\$1,044,550	\$1,081,584	\$65,378
Kiewit Infrastructure South Co.	\$907,867	\$1,037,737	\$961,545	\$63,777
Pac Comm, Inc.	\$1,292,591	\$1,407,016	\$1,360,538	\$64,030
Roberts Site Development, Inc.	\$1,374,060	\$1,387,791	\$1,420,264	\$54,958
Charley Toppino & Sons, Inc.	\$1,012,327	\$1,024,261	\$1,079,142	\$76,331