DATE OF THIS VERSION (new)
August 1, 2017

TITLE OF DOCUMENT (new title if applicable):
23 21 13-Hydronic Piping

DATE OF VERSION BEING SUPERSEDED (old):
September 1, 2012

DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):
23 21 13-Hydronic Piping

SUMMARY OF CHANGES IN THIS VERSION:
1. Par 1.1.A.2. Added “for HVAC systems”

2. Added Par 1.1.B. “A complete listing of all acronyms and abbreviations are included in
//Section 23 05 10, COMMON WORK RESULTS FOR BOILER PLANT AND STEAM
GENERATION// //and in// ///Section 23 05 11, COMMON WORK RESULTS FOR HVAC///.”

3. Par 1.2. Added
   Section 01 81 13, SUSTAINABLE CONSTRUCTION REQUIREMENTS
   Section 01 91 00, GENERAL COMMISSIONING REQUIREMENTS
   Section 11 41 21, WALK-IN COOLERS AND FREEZERS
   Section 22 05 33, HEAT TRACING FOR PLUMBING PIPING
   Section 23 05 10, COMMON WORK RESULTS FOR BOILER PLANT AND STEAM
   GENERATION
   Section 23 05 41, NOISE AND VIBRATION CONTROL FOR HVAC PIPING AND
   EQUIPMENT
   Section 23 08 00, COMMISSIONING OF HVAC
Section 23 09 23 DIRECT-DIGITAL CONTROL SYSTEM FOR HVAC
Section 23 22 13, STEAM AND CONDENSATE HEATING PIPING

4. Par 1.2. Deleted
   Section 03 30 00 Cast in Place Concrete
   Section 07 12 00 Built up Bituminous Waterproofing
   Section 07 13 52 Modified Bituminous Sheet Waterproofing
   Section 33 10 00 Water Utilities

5. Relocated Par 1.3 Applicable Publications

6. Par 1.3 Added Spec Writer note.

7. Par 1.3 Updated publications, deleted some.

8. Par 1.4 Submittals. Added verbiage on the number of copies, compliance, and
   manufacturer’s literature, materials of construction, O&M manuals, Completed System
   Readiness checklist, training plans and instructor qualifications, Bio-Based Materials, etc.


10. Added Par 1.6 As-built Documentation.


12. Par 2.2.B. Deleted “and All Solar Hot Water”

13. Par 2.3.B. Deleted “Contractor’s option: Grooved mechanical couplings and fittings are
    optional”

14. Deleted Par 2.3.D.

15. Par 2.6.C. Added “Dielectric gasket material shall be compatible with hydronic medium.”

16. Par 2.8 Deleted Designer Note

17. 2.8.D.2.c.3 references “Contractor’s Choice” have been removed. Added designer note
    regarding use Ball or Butterfly valve in lieu of Gate Valve.

18. General: Deleted Grooved or Mechanical coupling connections and fittings


20. Par 2.13.C. Added “pre-piped and pre-wired”


22. Par 2.13.J Added “on drawings”

23. Par 2.13.K Added Spec Writer notes and Buffer Tank

24. Par 2.16.B. Deleted P” PETE’S 500 XL is an example”

25. Par 2.17.E. Corrected HW scale range.
26. Par 2.19.A, E.4 NEC changed to NFPA 70
27. Added Par 3.1.A. Added “If an installation is unsatisfactory to the COR, the Contractor shall correct the installation at no additional cost or time to the Government”
28. General” Changed Resident Engineer to COR
29. Added Par 3.9, 3.10, 3.11