SUMMARY OF REVISIONS
JANUARY 2013 UPDATE

NEW NUMBERING FOR SOLICITATIONS AND CONTRACTS....24

00 01 10 TABLE OF CONTENTS – PHASE I....25

REV 1.13 30 JUNE 2012....25
REV 1.12 31 JULY 2011....25
REV 1.11 31 MAY 2011....25
REV 1.10 31 JANUARY 2010....25
REV 1.9 31 OCTOBER 2009....25
REV 1.8 31 JANUARY 2009....25
REV 1.7 30 NOVEMBER 2008....25
REV 1.6 31 OCTOBER 2008....25
REV 1.5 29 AUGUST 2008....26
REV 1.4 30 JUNE 2008....26
REV 1.3 15 DECEMBER 2007....26
REV 1.2 15 NOVEMBER 2007....26

00 01 10 TABLE OF CONTENTS – PHASE II....26

REV 1.13 30 JUNE 2012....26
REV 1.12 31 JULY 2011....26
REV 1.11 31 MAY 2011....26
REV 1.11 31 JANUARY 2010....26
REV 1.10 31 OCTOBER 2009....26
REV 1.9 31 JANUARY 2009....26
REV 1.8 30 NOVEMBER 2008....26
REV 1.7 31 OCTOBER 2008....26
REV 1.6 29 AUGUST 2008....27
REV 1.5 30 JUNE 2008....27
REV 1.4 15 DECEMBER 2007....27
REV 1.3 15 NOVEMBER 2007....27

00 01 10 TABLE OF CONTENTS – IDIQ PHASE I....27

REV 1.10 30 JUNE 2012....27
REV 1.9 31 JULY 2011....27
REV 1.8 31 MAY 2011....27
REV 1.7 31 JANUARY 2010....27
REV 1.6 31 OCTOBER 2009....27
REV 1.5 31 JANUARY 2009....27
REV 1.4 30 NOVEMBER 2008....27
REV 1.3 31 OCTOBER 2008....27
REV 1.2 29 AUGUST 2008....28
REV 1.1 30 JUNE 2008....28
REV 1.0 28 MARCH 2008....28

00 01 10 TABLE OF CONTENTS – IDIQ PHASE II....28

REV 1.13 30 JUNE 2012....28
REV 1.12 31 JULY 2011....28
REV 1.11 31 MAY 2011....28
REV 1.10 31 JANUARY 2010....28
REV 1.9 31 OCTOBER 2009....28
REV 1.8 31 JANUARY 2009....28
REV 1.7 31 DECEMBER 2008....28
REV 1.6 30 NOVEMBER 2008....29

REV 1.5 31 OCTOBER 2008 29
REV 1.4 18 SEPTEMBER 2008 29
REV 1.3 29 AUGUST 2008 29
REV 1.2 30 JUNE 2008 29
REV 1.1 15 MAY 2008 29
REV 1.0 28 MARCH 2008 29

00 01 10 TABLE OF CONTENTS – TASK ORDER 29

REV 1.13 30 JUNE 2012 29
REV 1.12 31 JULY 2011 29
REV 1.11 31 MAY 2011 29
REV 1.10 31 JANUARY 2010 29
REV 1.9 31 OCTOBER 2009 29
REV 1.8 31 JANUARY 2009 30
REV 1.7 30 NOVEMBER 2008 30
REV 1.6 31 OCTOBER 2008 30
REV 1.5 29 AUGUST 2008 30
REV 1.4 28 MARCH 2008 30
REV 1.3 15 DECEMBER 2007 30

00 21 00 INSTRUCTIONS TO OFFERORS 30

REV 2.5 31 JULY 2009 30
REV 2.4 30 NOVEMBER 2008 31
REV 2.3 15 NOVEMBER 2007 31
REV 2.2 11 OCTOBER 2007 31
REV 2.1 01 SEPTEMBER 2007 31
REV 2.0 15 AUGUST 2007 31
REV 1.5 15 JULY 2007 31
REV 1.4 15 MAY 2007 32
REV 1.3 23 FEBRUARY 2007 32
REV 1.2 08 NOVEMBER 2006 32
REV 1.1 03 AUGUST 2006 32
REV 1.0 15 MAY 2006 32

00 21 00(ID/IQ) INSTRUCTIONS TO OFFERORS 32

REV 1.7 31 JULY 2009 32
REV 1.6 30 NOVEMBER 2008 32
REV 1.5 28 MARCH 2008 32
REV 1.4 1 MARCH 2008 33
REV 1.3 15 NOVEMBER 2007 33
REV 1.2 11 OCTOBER 2007 33
REV 1.1 01 SEPTEMBER 2007 33
REV 1.0 15 AUGUST 2007 33

00 22 10 PHASE 1 OF 2 PHASE DESIGN-BUILD SELECTION PROCEDURES 33

REV 6.12 31 OCTOBER 2012 34
REV 6.11 31 JUNE 2012 34
REV 6.10 30 SEPTEMBER 2011 34
REV 6.9 31 MAY 2011 34
REV 6.8 31 JANUARY 2011 34
REV 6.7 31 MAY 2010 34
REV 6.6 30 APRIL 2010 34
REV 6.5 31 JULY 2009 34
REV 6.4 31 OCTOBER 2008 34
REV 6.3 30 JUNE 2008 35
REV 6.2 30 APRIL 2008 35

REV 6.1 28 MARCH 2008 35
REV 6.0 15 DECEMBER 2007 35
REV 5.4 15 NOVEMBER 2007 35
REV 5.3 15 OCTOBER 2007 35
REV 5.2 10 SEPTEMBER 2007 36
REV 5.1 01 SEPTEMBER 2007 36
REV 5.0 15 AUGUST 2007 36
REV 4.3 15 JUNE 2007 36
REV 4.2 15 MAY 2007 36
REV 4.1 15 MARCH 2007 36
REV 4.0 23 FEBRUARY 2007 37
REV 3.3 3 NOVEMBER 2006 37
REV 3.2 19 SEPTEMBER 2006 38
REV 3.1 04 AUGUST 2006 38
REV 3.0 14 JUNE 2006 38

00 22 10(ID/IQ) PHASE 1 OF 2 PHASE DESIGN-BUILD SELECTION PROCEDURES 38

REV 2.7 30 SEPTEMBER 2011 38
REV 2.6 31 MAY 2011 38
REV 2.5 30 APRIL 2010 38
REV 2.4 31 JULY 2009 38
REV 2.3 30 SEPTEMBER 2008 38
REV 2.2 30 JUNE 2008 39
REV 2.1 30 APRIL 2008 39
REV 2.0 15 DECEMBER 2007 39
REV 1.4 15 NOVEMBER 2007 39
REV 1.3 15 OCTOBER 2007 39
REV 1.2 10 SEPTEMBER 2007 40
REV 1.1 01 SEPTEMBER 2007 40
REV 1.0 15 AUGUST 2007 40

00 22 11 PROPOSAL SUBMISSION REQUIREMENTS EVALUATION CRITERIA, AND BASIS OF AWARD ONE STEP – BEST VALUE, DESIGN-BUILD (SINGLE AWARD) 40

REV 5.21 31 OCTOBER 2012 40
REV 5.20 30 JUNE 2012 40
REV 5.19 30 SEPTEMBER 2011 40
REV 5.18 31 MAY 2011 40
REV 5.17 31 JANUARY 2011 41
REV 5.16 30 NOVEMBER 2010 41
REV 5.15 31 OCTOBER 2010 41
REV 5.14 31 AUGUST 2010 41
REV 5.13 31 JULY 2010 41
REV 5.12 31 MAY 2010 41
REV 5.11 30 APRIL 2010 43
REV 5.10 31 JULY 2009 43
REV 5.9 31 MAY 2009 43
REV 5.8 30 NOVEMBER 2008 44
REV 5.7 31 OCTOBER 2008 44
REV 5.6 30 SEPTEMBER 2008 44
REV 5.5 30 JUNE 2008 45
REV 5.4 18 APRIL 2008 45
REV 5.3 28 MARCH 2008 45
REV 5.2 09 MARCH 2008 45
REV 5.1 31 JANUARY 2008 45
REV 5.0 15 DECEMBER 2007 46
REV 4.4 15 NOVEMBER 2007 46

REV 4.3 15 OCTOBER 2007 46
REV 4.2 10 SEPTEMBER 2007 46
REV 4.1 01 SEPTEMBER 2007 46
REV 4.0 15 AUGUST 2007 46
REV 3.2 15 JUNE 2007 47
REV 3.1 15 MAY 2007 47
REV 3.0 15 MARCH 2007 47
REV 2.11 15 JANUARY 2007 47
REV 2.10 22 DECEMBER 2006 48
REV 2.9 21 NOVEMBER 2006 48
REV 2.8 3 NOVEMBER 2006 48
REV 2.7 19 OCTOBER 2006 48
REV 2.6 19 SEPTEMBER 2006 48
REV 2.5 14 SEPTEMBER 2006 49
REV 2.4 04 AUGUST 2006 49
REV 2.3 21 JULY 2006 49
REV 2.2 14 JUNE 2006 50

00 22 20 PHASE 2 DESIGN-BUILD SELECTION PROCEDURES AND BASIS OF AWARD 50

REV 6.15 31 MAY 2011 50
REV 6.14 31 JANUARY 2011 50
REV 6.13 30 NOVEMBER 2010 50
REV 6.12 31 OCTOBER 2010 51
REV 6.11 31 AUGUST 2010 51
REV 6.10 31 JULY 2010 51
REV 6.9 31 MAY 2010 52
REV 6.8 30 APRIL 2010 53
REV 6.7 30 SEPTEMBER 2009 53
REV 6.6 31 JULY 2009 53
REV 6.5 31 MAY 2009 53
REV 6.4 30 NOVEMBER 2008 53
REV 6.3 30 SEPTEMBER 2008 54
REV 6.2 30 APRIL 2008 54
REV 6.1 31 JANUARY 2008 54
REV 6.0 15 DECEMBER 2007 55
REV 5.2 15 NOVEMBER 2007 55
REV 5.1 15 OCTOBER 2007 55
REV 5.0 15 AUGUST 2007 55
REV 4.4 15 JULY 2007 55
REV 4.3 15 MAY 2007 55
REV 4.2 15 APRIL 2007 56
REV 4.1 15 MARCH 2007 56
REV 4.0 23 FEBRUARY 2007 56
REV 3.8 21 NOVEMBER 2006 57
REV 3.7 19 OCTOBER 2006 57
REV 3.6 19 SEPTEMBER 2006 57
REV 3.5 14 SEPTEMBER 2006 57
REV 3.4 04 AUGUST 2006 58
REV 3.3 21 JULY 2006 58
REV 3.2 14 JUNE 2006 58

00 22 20(ID/IQ) PHASE 2 DESIGN-BUILD SELECTION PROCEDURES AND BASIS OF AWARD 58

REV 2.17 31 MAY 2011 59
REV 2.16 31 JANUARY 2011 59
REV 2.15 30 NOVEMBER 2010 59
REV 2.14 31 OCTOBER 2010 59

REV 2.13 31 AUGUST 2010 59
REV 2.12 31 JULY 2010....60
REV 2.11 31 MAY 2010 60
REV 2.10 30 APRIL 2010 62
REV 2.9 30 SEPTEMBER 2009....62
REV 2.8 31 JULY 2009....62
REV 2.7 31 MAY 2009 62
REV 2.6 30 NOVEMBER 2008 62
REV 2.5 31 OCTOBER 2008 62
REV 2.4 30 SEPTEMBER 2008....62
REV 2.3 30 APRIL 2008 63
REV 2.2 28 MARCH 2008 63
REV 2.1 31 JANUARY 2008 63
REV 2.0 15 DECEMBER 2007 64
REV 1.2 15 NOVEMBER 2007 64
REV 1.1 15 OCTOBER 2007 64
REV 1.0 15 AUGUST 2007 64

00 22 30 DESIGN-BUILD SELECTION PROCEDURES AND BASIS OF AWARD (TASK ORDER).....64

REV 2.16 30 SEPTEMBER 2011....64
REV 2.15 31 MAY 2011 64
REV 2.14 31 JANUARY 2011 65
REV 2.13 30 NOVEMBER 2010 65
REV 2.12 31 OCTOBER 2010 65
REV 2.11 31 AUGUST 2010 65
REV 2.10 31 JULY 2010....66
REV 2.9 31 MAY 2010 66
REV 2.8 30 APRIL 2010 67
REV 2.7 31 JULY 2009....67
REV 2.6 31 MAY 2009 67
REV 2.5 28 FEBRUARY 2009 67
REV 2.4 15 JANUARY 2009 68
REV 2.3 31 DECEMBER 2008 68
REV 2.2 30 NOVEMBER 2008 68
REV 2.1 21 OCTOBER 2008 68
REV 2.0 31 SEPTEMBER 2008....68
REV 1.2 18 APRIL 2008 69
REV 1.1 18 JANUARY 2008 69
REV 1.0 15 AUGUST 2007 69

00 45 00 REPRESENTATIONS AND CERTIFICATIONS 69

REV 2.1 01 SEPTEMBER 2007....69
REV 2.0 15 AUGUST 2007 69
REV 1.0 15 MAY 2006 69

00 72 00 CONTRACT CLAUSES – TABLE OF CONTENTS 69

REV 2.3 31 AUGUST 2010 69
REV 2.2 08 NOVEMBER 2008 69
REV 2.1 01 SEPTEMBER 2007....69
REV 2.0 15 AUGUST 2007 69
REV 1.0 15 MAY 2006 69

00 73 00 SPECIAL CONTRACT REQUIREMENTS....70

REV 2.9 30 APR 2012....70
REV 2.8 31 JULY 2011....70
REV 2.7 31 JANUARY 2011 70

REV 2.6 30 APRIL 2010 70
REV 2.5 31 MARCH 2010 70
REV 2.4 31 JULY 2009 71
REV 2.3 31 JULY 2008 71
REV 2.2 28 MARCH 2008 71
REV 2.1 28 FEBRUARY 2008 71
REV 2.0 15 AUGUST 2007 71
REV 1.5 15 JULY 2007 71
REV 1.4 15 MAY 2007 71
REV 1.3 15 APRIL 2007 71
REV 1.2 15 FEBRUARY 2007 71
REV 1.1 22 DECEMBER 2006 72
REV 1.0 15 MAY 2006 72

00 73 00(ID/IQ) SPECIAL CONTRACT REQUIREMENTS 72

REV 1.11 30 APR 2012 72
REV 1.10 31 JULY 2011 72
REV 1.9 31 JANUARY 2011 72
REV 1.8 30 APRIL 2010 72
REV 1.7 31 MARCH 2010 72
REV 1.6 31 JULY 2009 73
REV 1.5 30 SEPTEMBER 2008 73
REV 1.4 31 JULY 2008 73
REV 1.3 18 APRIL 2008 73
REV 1.2 28 MARCH 2008 73
REV 1.1 28 FEBRUARY 2008 73
REV 1.0 15 AUGUST 2007 74

00 73 10 SUPPLEMENTAL CONTRACT REQUIREMENTS (TASK ORDER) 74

REV 1.4 31 JULY 2011 74
REV 1.3 30 APRIL 2010 74
REV 1.2 31 MARCH 2010 74
REV 1.1 15 JANUARY 2008 74
REV 1.0 15 AUGUST 2007 74

00 73 46 WAGE DETERMINATION SCHEDULE (TASK ORDER) 74

REV 1.0 15 AUGUST 2007 74

01 10 00 STATEMENT OF WORK 74

PARAGRAPH 1 – PROJECT OBJECTIVES 74
REV 3.4 31 October 2012 74
REV 3.3 31 August 2012 75
REV 3.2 30 June 2012 75
REV 3.1 30 April 2012 75
REV 3.0 31 March 2012 75
REV 2.23 30 September 2011 75
REV 2.22 31 May2011 75
REV 2.21 31 March 2011 75
REV 2.20 31 January 2011 75
REV 2.19 31 October 2010 75
REV 2.18 30 September 2010 75
REV 2.17 30 June 2010 76
REV 2.16 31 May 2010 76
REV 2.15 30 April 2010 76
REV 2.14 01 July 2009 76
REV 2.13 28 February 2009 76

REV 2.12 31 December 2008 ..... *76*
REV 2.11 21 September 2008 ..... *76*
REV 2.10 30 May 2008 ..... *76*
REV 2.9 18 April 2008 ..... *76*
REV 2.8 15 March 2008 ..... *76*
REV 2.7 15 January 2008 ..... *76*
REV 2.6 15 December 2007 ..... *76*
REV 2.5 15 November 2007 ..... *77*
REV 2.4 19 October 2007 ..... *77*
REV 2.3 09 October 2007 ..... *77*
REV 2.2 10 September 2007 ..... *77*
REV 2.1 01 September 2007 ..... *77*
REV 2.0 15 August 2007 ..... *77*
REV 1.2 15 July 2007 ..... *77*
REV 1.1 19 September 2006 ..... *77*
REV 1.0 15 May 2006 ..... *77*
PARAGRAPH 2 – SCOPE 77
REV 3.36 31 January 2013 ..... *77*
REV 3.35 31 October 2012 ..... *78*
REV 3.34 30 June 2012 ..... *78*
REV 3.33 31 March 2012 ..... *78*
REV 3.32 31 January 2012 ..... *78*
REV 3.31 30 September 2011 ..... *78*
REV 3.29 31 July 2011 ..... *78*
REV 3.28 31 May2011 ..... *79*
REV 3.27 30 April 2011 ..... *79*
REV 3.26 31 March 2011 ..... *79*
REV 3.25 31 January 2011 ..... *79*
REV 3.24 30 November 2010 ..... *79*
REV 3.23 31 October 2010 ..... *80*
REV 3.22 30 September 2010 ..... *80*
REV 3.21 31 August 2010 ..... *80*
REV 3.20 31 July 2010 ..... *81*
REV 3.19 30 June 2010 ..... *81*
REV 3.18 31 May 2010 ..... *81*
REV 3.17 30 April 2010 ..... *81*
REV 3.16 31 March 2010 ..... *82*
REV 3.15 28 February 2010 ..... *82*
REV 3.14 31 December 2009 ..... *82*
REV 3.13 30 September 2009 ..... *82*
REV 3.12 31 July 2009 ..... *82*
REV 3.11 31 May 2009 ..... *82*
REV 3.10 30 April 2009 ..... *83*
REV 3.9 28 February 2009 ..... *83*
REV 3.8 31 December 2008 ..... *83*
REV 3.7 30 November 2008 ..... *83*
REV 3.6 31 October 2008 ..... *84*
REV 3.5 15 July 2008 ..... *84*
REV 3.4 15 June 2008 ..... *84*
REV 3.3 30 May 2008 ..... *84*
REV 3.2 30 April 2008 ..... *85*
REV 3.1 28 March 2008 ..... *85*
REV 3.0 09 March 2008 ..... *85*
REV 2.9 15 January 2008 ..... *85*
REV 2.8 15 December 2007 ..... *86*
REV 2.7 15 November 2007 ..... *86*

REV 2.6 19 October 2007 ..... *86*
REV 2.5 10 September 2007 ..... *86*
REV 2.4 01 September 2007 ..... *86*
REV 2.3 15 July 2007 ..... *86*
REV 2.2 15 April 2007 ..... *86*
REV 2.1 25 January 2007 ..... *86*
REV 2.0 20 October 2006 ..... *86*
REV 1.0 15 May 2006 ..... *87*
PARAGRAPH 3 – UNACCOMPANIED ENLISTED PERSONNEL HOUSING (UEPH) 87
REV 3.1 30 June 2012 ..... *87*
REV 3.0 30 March 2012 ..... *87*
REV 2.30 31 January 2012 ..... *87*
REV 2.29 30 September 2011 ..... *87*
REV 2.28 31 May 2011 ..... *89*
REV 2.27 31 March 2011 ..... *89*
REV 2.26 31 January 2011 ..... *89*
REV 2.25 30 November 2010 ..... *89*
REV 2.24 31 October 2010 ..... *90*
REV 2.23 31 July 2010 ..... *90*
REV 2.22 30 June 2010 ..... *91*
REV 2.21 31 May 2010 ..... *109*
REV 2.20 30 April 2010 ..... *110*
REV 2.19 31 March 2010 ..... *112*
REV 2.18 28 February 2010 ..... *113*
REV 2.17 30 September 2009 ..... *115*
REV 2.16 31 August 2009 ..... *116*
REV 2.15 31 July 2009 ..... *118*
REV 2.14 31 May 2009 ..... *121*
REV 2.13 30 April 2009 ..... *123*
REV 2.12 27 February 2009 ..... *124*
REV 2.11 30 January 2009 ..... *127*
REV 2.10 31 December 2008 ..... *128*
REV 2.9 30 September 2008 ..... *130*
REV 2.8 30 May 2008 ..... *135*
REV 2.7 28 March 2008 ..... *139*
REV 2.6 28 February 2008 ..... *139*
REV 2.5 15 December 2007 ..... *139*
REV 2.4 15 November 2007 ..... *139*
REV 2.3 15 October 2007 ..... *140*
REV 2.2 01 September 2007 ..... *140*
REV 2.1 15 August 2007 ..... *140*
REV 2.0 15 June 2007 ..... *140*
REV 1.1 15 March 2007 ..... *141*
REV 1.0 15 May 2006 ..... *141*
PARAGRAPH 3 – COMPANY OPERATIONS FACILITY (COF) 141
REV 4.1 31 January 2013 ..... *141*
REV 4.0 31 August 2012 ..... *142*
REV 3.8 23 January 2012 ..... *142*
REV 3.7 31 May 2011 ..... *142*
REV 3.6 20 October 2010 ..... *143*
REV 3.5 30 June 2010 ..... *143*
REV 3.4 30 April 2010 ..... *144*
REV 3.3 31 December 2009 ..... *145*
REV 3.2 30 September 2009 ..... *146*
REV 3.1 30 April 2009 ..... *147*
REV 3.0 28 February 2009 ..... *148*

REV 2.6 31 October 2008 ..... *151*
REV 2.5 15 July 2008 ..... *154*
REV 2.4 15 June 2008 ..... *154*
REV 2.3 15 March 2008 ..... *156*
REV 2.2 28 February 2008 ..... *156*
REV 2.1 06 November 2007 ..... *157*
Rev. 2.0 10 September 2007 ..... *157*
Rev. 1.3 15 August 2007 ..... *157*
Rev. 1.2 15 June 2007 ..... *157*
Rev. 1.1 15 October 2006 ..... *158*
REV 1.0 15 May 2006 ..... *160*
PARAGRAPH 3 – DINING FACILITY (EPDF) 161
REV 6.0 30 March 2012 ..... *161*
REV 5.5 31 May 2011 ..... *161*
REV 5.4 31 January 2011 ..... *162*
REV 5.3 30 November 2010 ..... *162*
REV 5.2 30 September 2010 ..... *162*
REV 5.1 30 June 2010 ..... *162*
REV 5.0 31 July 2009 ..... *163*
REV 4.8 30 April 2009 ..... *163*
REV 4.7 31 October 2008 ..... *164*
REV 4.6 31 July 2008 ..... *164*
REV 4.5 28 March 2008 ..... *164*
REV 4.4 15 December 2007 ..... *164*
REV 4.3 09 October 2007 ..... *165*
REV 4.2 14 September 2007 ..... *165*
REV 4.1 15 August 2007 ..... *165*
REV 4.0 30 July 2007 ..... *165*
REV 3.0 15 April 2007 ..... *165*
REV 2.0 15 October 2006 ..... *166*
REV 1.0 15 May 2006 ..... *166*
PARAGRAPH 3 – BRIGADE AND BATTALION HEADQUARTERS FACILITY (BDE/BN HQ) 166
REV 5.1 31 January 2012 ..... *166*
REV 5.0 31 October 2012 ..... *166*
REV 4.1 23 January 2012 ..... *167*
REV 4.0 28 November 2011 ..... *167*
REV 3.9 20 October 2010 ..... *168*
REV 3.8 30 June 2010 ..... *170*
REV 3.7 30 April 2010 ..... *171*
REV 3.6 31 March 2010 ..... *173*
REV 3.5 28 February 2010 ..... *174*
REV 3.4 31 December 2009 ..... *177*
REV 3.3 30 September 2009 ..... *178*
REV 3.2 30 August 2009 ..... *178*
REV 3.1 30 April 2009 ..... *179*
REV 3.0 27 February 2009 ..... *180*
REV 2.6 31 October 2008 ..... *181*
REV 2.5 24 June 2008 ..... *182*
REV 2.4 18 April 2008 ..... *182*
REV 2.3 04 December 2007 ..... *183*
REV 2.2 19 November 2007 ..... *183*
REV 2.1 09 October 2007 ..... *184*
REV 2.0 10 September 2007 ..... *184*
REV 1.2 15 June 2007 ..... *184*
REV 1.1 15 October 2006 ..... *189*
REV 1.0 15 May 2006 ..... *200*

PARAGRAPH 3 – TACTICAL EQUIPMENT MAINTENANCE FACILITY (TEMF) 200
Rev 4.1 31 January 2013 ..... *200*
Rev 4.0 31 August 2012 ..... *203*
Rev 3.8 23 January 2012 ..... *203*
Rev 3.7 31 March 2011 ..... *204*
Rev 3.6 25 October 2010 ..... *205*
Rev 3.5 30 June 2010 ..... *206*
Rev 3.4 31 March 2010 ..... *207*
Rev 3.3 31 December 2009 ..... *208*
Rev 3.2 30 September 2009 ..... *209*
Rev 3.1 31 May 2009 ..... *209*
Rev 3.0 28 February 2009 ..... *210*
Rev 2.7 30 November 2008 ..... *213*
Rev 2.6 15 June 2008 ..... *216*
Rev 2.5 28 March2008 ..... *218*
Rev 2.3 25 January 2008 ..... *220*
REV 2.2 17 January 2008 ..... *220*
REV 2.1 19 November 2007 ..... *221*
REV 2.0 10 September 2007 ..... *225*
REV 1.3 15 August 2007 ..... *225*
REV 1.2 16 March 2007 ..... *225*
REV 1.1 15 October 2006 ..... *226*
REV 1.0 15 May 2006 ..... *229*
PARAGRAPH 3 – COMMAND AND CONTROL FACILITY (C2F) 229
REV 3.0 30 October 2012 ..... *229*
REV 2.0 08 October 2010 ..... *229*
REV 1.1 18 March 2007 ..... *229*
REV 1.0 22 October 2007 ..... *230*
PARAGRAPH 3 – OPERATIONAL READINESS TRAINING COMPLEX (ORTC) 230
REV 5.0 30 October 2012 ..... *230*
REV 4.6 31 August 2012 ..... *230*
REV 4.5 15 March 2012 ..... *230*
REV 4.4 30 September 2011 ..... *233*
REV 4.3 31 August 2011 ..... *235*
REV 4.2 31 July 2011 ..... *237*
REV 4.1 05 May 2011 ..... *237*
REV 4.0 04 March 2011 ..... *239*
REV 3.0 30 September 2010 ..... *240*
REV 2.1 31 July 2010 ..... *240*
REV 2.0 31 December 2009 ..... *240*
REV 1.4 30 May 2008 ..... *240*
REV 1.3 18 April 2008 ..... *240*
REV 1.2 17 January 2008 ..... *241*
REV 1.1 15 August 2007 ..... *241*
REV 1.0 15 July 2007 ..... *241*
PARAGRAPH 3 – CHILD DEVELOPMENT CENTERS (CDC) 242
REV 2.0 30 June 2012 ..... *242*
REV 1.22 31 July 2011 ..... *242*
REV 1.21 31 March 2011 ..... *242*
REV 1.20 30 November 2010 ..... *242*
REV 1.19 31 October 2010 ..... *242*
REV 1.18 30 August 2010 ..... *242*
REV 1.17 31 August 2010 ..... *242*
REV 1.16 30 June 2010 ..... *243*
REV 1.15 31 May 2010 ..... *243*
REV 1.14 31 July 2009 ..... *243*

REV 1.13 31 May 2009 ..... *243*
REV 1.12 30 April 2009 ..... *244*
REV 1.11 30 January 2009 ..... *244*
REV 1.10 30 November 2008 ..... *244*
REV 1.9 31 October 2008 ..... *244*
REV 1.8 30 September 2008 ..... *245*
REV 1.7 29 August 2008 ..... *245*
REV 1.6 31 July 2008 ..... *245*
REV 1.5 15 July 2008 ..... *245*
REV 1.4 30 June 2008 ..... *245*
REV 1.3 30 April 2008 ..... *246*
REV 1.2 28 March 2008 ..... *246*
REV 1.1 10 January 2008 ..... *246*
REV 1.0 01 September 2007 ..... *247*
PARAGRAPH 3 – ARMY COMMUNITY SERVICE CENTER (ACSC) 247
REV 2.0 30 June 2012 ..... *247*
REV 1.3 31 October 2008 ..... *247*
REV 1.2 15 March 2008 ..... *247*
REV 1.1 10 January 2008 ..... *247*
REV 1.0 10 September 2007 ..... *247*
PARAGRAPH 3 – YOUTH CENTER 247
REV 2.0 30 June 2012 ..... *247*
REV 1.9 30 September 2010 ..... *248*
REV 1.8 31 August 2010 ..... *248*
REV 1.7 31 July 2009 ..... *248*
REV 1.6 31 May 2009 ..... *248*
REV 1.5 30 April 2009 ..... *248*
REV 1.4 30 November 2008 ..... *248*
REV 1.3 30 September 2008 ..... *248*
REV 1.2 29 August 2008 ..... *248*
REV 1.1 15 June 2008 ..... *248*
REV 1.0 15 March 2008 ..... *249*
PARAGRAPH 3 – GENERAL INSTRUCTION BUILDING 249
REV 1.6 31 October 2010 ..... *249*
REV 1.5 31 July 2010 ..... *249*
REV 1.4 15 September 2008 ..... *249*
REV 1.3 30 June 2008 ..... *250*
REV 1.2 28 March 2008 ..... *250*
REV 1.1 25 January 2008 ..... *250*
REV 1.0 09 October 2007 ..... *250*
PARAGRAPH 3 – CRIMINAL INVESTIGATION DIVISION COMMAND (CIDC) 250
REV 2.0 30 October 2012 ..... *250*
REV 1.0 09 October 2007 ..... *251*
PARAGRAPH 3 – CHAPEL 251
REV 3.2 31 January 2013 ..... *251*
REV 3.1 31 August 2012 ..... *252*
REV 3.0 30 June 2012 ..... *253*
REV 2.0 28 February 2010 ..... *253*
REV 1.0 15 November 2007 ..... *254*
PARAGRAPH 3 – RELIGIOUS EDUCATION FACILITY 254
REV 1.1 30 August 2012 ..... *254*
REV 1.0 30 June 2012 ..... *255*
PARAGRAPH 3 – CHAPLAIN FAMILY LIFE CENTER FACILITY 255
REV 1.0 30 June 2012 ..... *255*
PARAGRAPH 3 – ADVANCED INDIVIDUAL TRAINING COMPLEX 256
REV 3.0 30 April 2012 ..... *256*

REV 1.13 15 December 2011 ..... *256*
REV 1.12 31 March 2011 ..... *256*
REV 1.11 31 January 2011 ..... *257*
REV 1.10 30 November 2010 ..... *257*
REV 1.9 30 September 2010 ..... *257*
REV 1.8 30 June 2010 ..... *258*
REV 1.7 31 May 2010 ..... *260*
REV 1.6 30 September 2009 ..... *264*
REV 1.5 31 July 2009 ..... *264*
REV 1.4 30 April 2009 ..... *265*
REV 1.3 27 February 2009 ..... *265*
REV 1.2 30 September 2008 ..... *267*
REV 1.1 15 September 2008 ..... *268*
REV 1.0 15 December 2007 ..... *268*
PARAGRAPH 3 – BASIC TRAINING AND ONE STATION UNIT TRAINING COMPLEX 268
REV 2.1 31 August 2012 ..... *268*
REV 2.0 30 June 2012 ..... *270*
REV 1.16 31 January 2012 ..... *270*
REV 1.15 31 May 2011 ..... *271*
REV 1.14 31 January 2011 ..... *274*
REV 1.13 30 November 2010 ..... *274*
REV 1.12 31 October 2010 ..... *274*
REV 1.11 31 August 2010 ..... *275*
REV 1.10 30 June 2010 ..... *276*
REV 1.9 31 May 2010 ..... *279*
REV 1.8 31 March 2010 ..... *280*
REV 1.7 28 February 2010 ..... *281*
REV 1.6 30 September 2009 ..... *282*
REV 1.5 31 August 2009 ..... *283*
REV 1.4 31 May 2009 ..... *283*
REV 1.3 28 February 2009 ..... *284*
REV 1.2 15 September 2008 ..... *286*
REV 1.1 30 April 2008 ..... *287*
REV 1.0 15 January 2008 ..... *289*
PARAGRAPH 3 – WARRIORS IN TRANSITION COMPLEX 289
REV 2.1 30 June 2012 ..... *289*
REV 2.0 30 March 2012 ..... *292*
REV 1.19 31 January 2011 ..... *292*
REV 1.18 31 August 2010 ..... *292*
REV 1.17 31 July 2010 ..... *293*
REV 1.16 30 June 2010 ..... *293*
REV 1.15 31 May 2010 ..... *296*
REV 1.14 31 March 2010 ..... *297*
REV 1.13 28 February 2010 ..... *298*
REV 1.12 31 January 2010 ..... *298*
REV 1.11 02 December 2009 ..... *299*
REV 1.10 30 September 2009 ..... *301*
REV 1.9 31 July 2009 ..... *302*
REV 1.8 31 May 2009 ..... *304*
REV 1.7 30 April 2009 ..... *305*
REV 1.6 28 Februray 2009 ..... *306*
REV 1.6 30 September 2008 ..... *307*
REV 1.5 15 September 2008 ..... *310*
REV 1.4 15 July 2008 ..... *312*
REV 1.3 15 May 2008 ..... *313*
REV 1.2 30 April 2008 ..... *313*

REV 1.1 28 March 2008 ..... *314*
REV 1.0 09 March 2008 ..... *314*
PARAGRAPH 3 – DEPARTMENT OF EMERGENCY SERVICES 314
REV 2.0 30 June 2012 ..... *314*
REV 1.5 30 September 2011 ..... *314*
REV 1.4 31 July 2009 ..... *314*
REV 1.3 31 May 2009 ..... *314*
REV 1.2 30 April 2009 ..... *315*
REV 1.1 30 June 2008 ..... *315*
REV 1.0 15 March 2008 ..... *315*
PARAGRAPH 3 – ARMY FIRE STATIONS 315
REV 3.0 30 June 2012 ..... *315*
REV 2.3 31 July 2011 ..... *315*
REV 2.2 30 November 2010 ..... *315*
REV 2.1 31 May 2010 ..... *315*
REV 2.0 30 April 2010 ..... *315*
REV 1.5 31 July 2009 ..... *315*
REV 1.4 31 May 2009 ..... *316*
REV 1.3 30 April 2009 ..... *316*
REV 1.2 15 July 2008 ..... *316*
REV 1.1 30 June 2008 ..... *316*
REV 1.0 30 April 2008 ..... *316*
PARAGRAPH 3 – PHYSICAL FITNESS CENTER FACILITY 316
REV 3.0 30 June 2012 ..... *316*
REV 2.10 30 September 2011 ..... *316*
REV 2.9 31 July 2011 ..... *316*
REV 2.8 31 March 2011 ..... *317*
REV 2.7 31 July 2010 ..... *317*
REV 2.6 31 July 2009 ..... *317*
REV 2.5 27 February 2009 ..... *317*
REV 2.4 31 December 2008 ..... *317*
REV 2.3 30 November 2008 ..... *317*
REV 2.2 31 October 2008 ..... *318*
REV 2.1 29 August 2008 ..... *318*
REV 2.0 30 June 2008 ..... *318*
REV 1.0 18 April 2008 ..... *318*
PARAGRAPH 3 – ACCESS CONTROL POINTS 318
REV 1.0 31 July 2009 ..... *318*
PARAGRAPH 3 – UAS MAINTENANCE HANGAR 318
REV 1.10 31 July 2011 ..... *318*
REV 1.9 31 May 2011 ..... *318*
REV 1.8 31 March 2011 ..... *318*
REV 1.7 31 January 2011 ..... *319*
REV 1.6 30 November 2010 ..... *320*
REV 1.5 31 October 2010 ..... *320*
REV 1.4 31 August 2010 ..... *321*
REV 1.3 31 July 2010 ..... *321*
REV 1.2 30 June 2010 ..... *321*
REV 1.1 31 May 2010 ..... *322*
REV 1.0 30 April 2010 ..... *322*
PARAGRAPH 3 – ATTACK OR ASSAULT BATTALION, OR CAVALRY SQUADRON (AAC) HANGAR 322
REV 1.1 31 July 2010 ..... *322*
REV 1.0 31 May 2010 ..... *322*
PARAGRAPH 3 – MODIFIED RECORD FIRE RANGE (MRF) 323
REV 2.1 31 January 2013 ..... *323*
REV 2.0 30 June 2012 ..... *323*

REV 1.4 30 September 2011 ..... *323*
REV 1.3 31 July 2011 ..... *323*
REV 1.2 31 June 2011 ..... *323*
REV 1.1 31 May 2011 ..... *323*
REV 1.0 31 January 2011 ..... *323*
PARAGRAPH 3 – AUTOMATED RECORD FIRE RANGE (ARF) 323
REV 2.2 31 January 2013 ..... *323*
REV 2.1 31 October 2012 ..... *323*
REV 2.0 30 June 2012 ..... *323*
REV 1.1 31 July 2011 ..... *324*
REV 1.0 31 March 2011 ..... *324*
PARAGRAPH 3 – COMBAT PISTOL/MILITARY POLICE FIREARMS QUALIFICATION COURSE (CPQC/MPFQC) 324
REV 2.0 30 June 2012 ..... *324*
REV 1.1 31 July 2011 ..... *324*
REV 1.0 31 March 2011 ..... *324*
PARAGRAPH 3 – LIVE FIRE SHOOTHOUSE (LVSH) 324
REV 2.1 31 January 2013 ..... *324*
REV 2.0 30 June 2012 ..... *324*
REV 1.1 31 July 2011 ..... *325*
REV 1.0 31 March 2011 ..... *325*
PARAGRAPH 3 – BATTLEFIELD WEATHER SUPPORT FACILITY (BWF) 325
REV 1.1 31 January 2013 ..... *325*
REV 1.0 31 October 2012 ..... *327*
PARAGRAPH 3 – TRAINING SUPPORT CENTER (TSC) 327
REV 1.0 31 October 2012 ..... *327*
PARAGRAPH 3 – URBAN ASSAULT COURSE (UAC) 327
REV 1.0 31 October 2012 ..... *327*
PARAGRAPH 3 – BASIC 10M-25M FIRING RANGE (ZERO) 327
REV 1.0 31 October 2012 ..... *327*
PARAGRAPH 4 – APPLICABLE CRITERIA 327
REV 2.34 30 June 2012 ..... *327*
REV 2.33 31 March 2012 ..... *327*
REV 2.32 30 September 2011 ..... *328*
REV 2.31.1 31 May2011 ..... *328*
REV 2.31 30 April 2011 ..... *328*
REV 2.30 31 October 2010 ..... *328*
REV 2.29 30 September 2010 ..... *329*
REV 2.28 30 June 2010 ..... *329*
REV 2.27 31 May 2010 ..... *329*
REV 2.26 30 April 2010 ..... *329*
REV 2.25 28 February 2010 ..... *329*
REV 2.24 31 January 2010 ..... *329*
REV 2.23 30 October 2009 ..... *330*
REV 2.22 30 September 2009 ..... *330*
REV 2.21 30 August 2009 ..... *330*
REV 2.20 30 April 2009 ..... *330*
REV 2.19 31 March 2009 ..... *330*
REV 2.18 28 February 2009 ..... *331*
REV 2.17 31 January 2009 ..... *331*
REV 2.16 31 December 2008 ..... *331*
REV 2.15 31 October 2008 ..... *331*
REV 2.14 29 August 2008 ..... *331*
REV 2.13 31 July 2008 ..... *331*
REV 2.12 30 April 2008 ..... *331*
REV 2.11 28 February 2008 ..... *332*

REV 2.10 31 January 2008 ..... *332*
REV 2.9 15 December 2007 ..... *332*
REV 2.8 15 November 2007 ..... *333*
REV 2.7 15 October 2007 ..... *333*
REV 2.6 25 September 2007 ..... *333*
REV 2.5 01 September 2007 ..... *333*
REV 2.4 15 July 2007 ..... *333*
REV 2.3 15 June 2007 ..... *333*
REV 2.2 15 May 2007 ..... *333*
REV 2.1 15 April 2007 ..... *333*
REV 2.0 15 March 2007 ..... *334*
REV 1.4 15 February 2007 ..... *335*
REV 1.3 15 January 2007 ..... *335*
REV 1.2 22 December 2006 ..... *335*
REV 1.1 15 October 2006 ..... *335*
REV 1.0 15 May 2006 ..... *335*
PARAGRAPH 5 – GENERAL TECHNICAL REQUIREMENTS 335
REV 2.2 31 October 2012 ..... *335*
REV 2.1 30 April 2012 ..... *336*
REV 2.0 31 March 2012 ..... *336*
REV 1.47 31 January 2012 ..... *336*
REV 1.46 15 December 2011 ..... *336*
REV 1.45 30 September 2011 ..... *336*
REV 1.44 31 July 2011 ..... *336*
REV 1.43.1 31 May 2011 ..... *337*
REV 1.43 30 April 2011 ..... *337*
REV 1.42 31 January 2011 ..... *338*
REV 1.41 30 November 2010 ..... *338*
REV 1.40 31 October 2010 ..... *338*
REV 1.39 30 September 2010 ..... *339*
REV 1.38 31 August 2010 ..... *339*
REV 1.37 31 July 2010 ..... *340*
REV 1.36.2 30 June 2010 ..... *340*
REV 1.36.1 16 June 2010 ..... *340*
REV 1.36 31 May 2010 ..... *341*
REV 1.35 30 April 2010 ..... *341*
REV 1.34 31 March 2010 ..... *341*
REV 1.33 28 February 2010 ..... *342*
REV 1.32 31 January 2010 ..... *342*
REV 1.31 31 December 2009 ..... *342*
REV 1.30 30 October 2009 ..... *342*
REV 1.29 30 September 2009 ..... *343*
REV 1.28 31 August 2009 ..... *344*
REV 1.27 31 July 2009 ..... *344*
REV 1.27 31 May 2009 ..... *344*
REV 1.26 30 April 2009 ..... *345*
REV 1.25 28 February 2009 ..... *346*
REV 1.24 31 January 2009 ..... *346*
REV 1.23 31 December 2008 ..... *346*
REV 1.22 30 November 2008 ..... *346*
REV 1.21 31 October 2008 ..... *348*
REV 1.20 30 September 2008 ..... *349*
REV 1.19 29 August 2008 ..... *350*
REV 1.18 31 July 2008 ..... *350*
REV 1.17 30 May 2008 ..... *350*
REV 1.16 30 April 2008 ..... *351*

REV 1.15 28 March 2008 ..... *351*
REV 1.14 18 January 2008 ..... *351*
REV 1.13 15 December 2007 ..... *351*
REV 1.12 15 November 2007 ..... *352*
REV 1.11 15 October 2007 ..... *353*
REV 1.10 15 September 2007 ..... *354*
REV 1.9 01 September 2007 ..... *354*
REV 1.8 15 August 2007 ..... *354*
REV 1.7 25 May 2007 ..... *355*
REV 1.6 15 April 2007 ..... *356*
REV 1.5 15 March 2007 ..... *356*
REV 1.4 15 February 2007 ..... *357*
REV 1.3 25 January 2007 ..... *357*
REV 1.2 22 December 2006 ..... *358*
REV 1.1 27 September 2006 ..... *358*
REV 1.0 15 May 2006 ..... *358*
PARAGRAPH 6 – PROJECT SPECIFIC REQUIREMENTS 358
REV 2.9 31 March 2010 ..... *358*
REV 2.8 30 Septebmer 2009 ..... *358*
REV 2.7 31 August 2009 ..... *359*
REV 2.6 31 July 2009 ..... *359*
REV 2.5 31 May 2009 ..... *359*
REV 2.4 30 April 2009 ..... *359*
REV 2.3 28 February 2009 ..... *359*
REV 2.2 31 January 2008 ..... *359*
REV 2.1 31 December 2008 ..... *360*
REV 2.0 30 November 2008 ..... *360*
REV 1.9 30 September 2008 ..... *360*
REV 1.8 30 April 2008 ..... *361*
REV 1.7 15 November 2007 ..... *361*
REV 1.6 15 September 2007 ..... *361*
REV 1.5 15 June 2007 ..... *361*
REV 1.4 15 April 2007 ..... *361*
REV 1.3 15 February 2007 ..... *362*
REV 1.2 25 January 2007 ..... *363*
REV 1.1 27 September 2006 ..... *363*
REV 1.0 15 May 2006 ..... *363*
PARAGRAPH 6 – PROJECT SPECIFIC REQUIREMENTS – FORT CAMPBELL (NEW VERSION ONLY) 364
REV 3.1 15 December 2011 ..... *364*
REV 3.0 31 July 2011 ..... *364*
REV 2.3 30 September 2010 ..... *364*
REV 2.2 31 August 2010 ..... *364*
REV 2.1 30 June 2010 ..... *364*
REV 2.0 30 April 2010 ..... *364*
REV 1.2 31 March 2010 ..... *365*
REV 1.1 31 December 2009 ..... *365*
REV 1.0 31 October 2009 ..... *365*
PARAGRAPH 6 – PROJECT SPECIFIC REQUIREMENTS – FORT CARSON (NEW VERSION ONLY) 365
REV 3.1 30 April 2012 ..... *365*
REV 3.0 15 December 2011 ..... *365*
REV 2.1 30 September 2011 ..... *365*
REV 2.0 31 January 2011 ..... *366*
REV 1.4 31 July 2010 ..... *366*
REV 1.3 30 April 2010 ..... *366*
REV 1.2 31 March 2010 ..... *366*
REV 1.1 31 December 2009 ..... *366*

REV 1.0 31 October 2009 ..... *366*
PARAGRAPH 6 – PROJECT SPECIFIC REQUIREMENTS – JOINT BASE LEWIS/MCCHORD (NEW VERSION ONLY) 367
REV 2.1 30 April 2011 ..... *367*
REV 2.0 31 March 2011 ..... *367*
REV 1.2 31 May 2010 ..... *367*
REV 1.1 31 March 2010 ..... *367*
REV 1.0 31 October 2009 ..... *367*
PARAGRAPH 6 – PROJECT SPECIFIC REQUIREMENTS – FORT SAM HOUSTON (NEW VERSION ONLY) 367
REV 1.3 30 April 2012 ..... *367*
REV 1.2 30 June 2010 ..... *367*
REV 1.1 31 March 2010 ..... *367*
REV 1.0 31 October 2009 ..... *368*
PARAGRAPH 6 – PROJECT SPECIFIC REQUIREMENTS – FORT HOOD (NEW VERSION ONLY) 368
REV 1.3 30 April 2012 ..... *368*
REV 1.2 30 September 2010 ..... *368*
REV 1.1 31 March 2010 ..... *368*
REV 1.0 31 October 2009 ..... *368*
PARAGRAPH 6 – PROJECT SPECIFIC REQUIREMENTS – FORT BRAGG (NEW VERSION ONLY) 368
REV 3.5 30 April 2012 ..... *368*
REV 3.4 30 September 2010 ..... *369*
REV 3.3 31 August 2010 ..... *369*
REV 3.2 31 July 2010 ..... *369*
REV 3.0 31 May 2010 ..... *369*
REV 2.0 30 April 2010 ..... *369*
REV 1.1 31 March 2010 ..... *370*
REV 1.0 31 October 2009 ..... *370*
PARAGRAPH 6 – PROJECT SPECIFIC REQUIREMENTS – FORT BLISS (NEW VERSION ONLY) 370
REV 2.7 30 April 2012 ..... *370*
REV 2.6 30 September 2010 ..... *370*
REV 2.5 31 August 2010 ..... *370*
REV 2.4 30 June 2010 ..... *371*
REV 2.3 31 May 2010 ..... *371*
REV 2.2 30 April 2010 ..... *371*
REV 2.1 31 March 2010 ..... *371*
REV 2.0 31 January 2010 ..... *371*
REV 1.0 31 October 2009 ..... *371*
PARAGRAPH 6 – PROJECT SPECIFIC REQUIREMENTS – FORT STEWART (NEW VERSION ONLY) 371
REV 2.5 30 April 2012 ..... *371*
REV 2.4 30 April 2011 ..... *372*
REV 2.3 31 Mar 2011 ..... *372*
REV 2.2 31 Jul 2010 ..... *373*
REV 2.1 31 May 2010 ..... *373*
REV 2.0 30 April 2010 ..... *373*
REV 1.1 31 March 2010 ..... *373*
REV 1.0 31 October 2009 ..... *374*
PARAGRAPH 6 – PROJECT SPECIFIC REQUIREMENTS – FORT BENNING (NEW VERSION ONLY) 374
REV 1.1 30 April 2012 ..... *374*
REV 1.0 31 March 2010 ..... *374*
PARAGRAPH 6 – PROJECT SPECIFIC REQUIREMENTS – FORT SILL (NEW VERSION ONLY) 374
REV 1.2 31 March 2012 ..... *374*
REV 1.1 31 March 2012 ..... *374*
REV 1.0 31 March 2010 ..... *374*
PARAGRAPH 6 – PROJECT SPECIFIC REQUIREMENTS – FORT KNOX 375
REV 2.0 30 June 2012 ..... *375*

REV 1.1 30 April 2012 375
REV 1.0 31 August 2010 375

01 11 00 SUMMARY OF WORK (ID/IQ) 375

REV 1.16 31 OCTOBER 2012 375
REV 1.15 30 JUNE 2012 375
REV 1.14 30 SEPTEMBER 2011 375
REV 1.13 31 MARCH 2011 375
REV 1.12 31 JANUARY 2011 375
REV 1.11 31 MAY 2010 375
REV 1.10 30 APRIL 2010 376
REV 1.9 01 JULY 2009 376
REV 1.8 30 SEPTEMBER 2008 376
REV 1.7 30 APRIL 2008 376
REV 1.6 28 MARCH 2008 376
REV 1.5 15 JANUARY 2008 376
REV 1.4 15 DECEMBER 2007 376
REV 1.3 15 NOVEMBER 2007 376
REV 1.2 19 OCTOBER 2007 376
REV 1.1 01 SEPTEMBER 2007 376
REV 1.0 15 AUGUST 2007 376

01 32 01.00 10 PROJECT SCHEDULE 377

REV 5.3 30 APRIL 2012 377
REV 5.2 31 JULY 2011 377
REV 5.1 30 APRIL 2011 377
REV 5.0 31 AUGUST 2010 377
REV 4.1 31 JULY 2009 377
REV 4.0 15 AUGUST 2007 378
REV 3.0 13 NOVEMBER 2006 378
REV 2.0 25 SEPTEMBER 2006 378
REV 1.1 08 SEPTEMBER 2006 378
REV 1.0 15 MAY 2006 378

01 33 00 SUBMITTAL PROCEDURES 378

REV 4.1 30 APRIL 2010 378
REV 4.0 31 OCTOBER 2009 379
REV 3.8 30 AUGUST 2009 379
REV 3.7 30 NOVEMBER 2008 379
REV 3.6 30 SEPTEMBER 2008 379
REV 3.5 31 JULY 2008 379
REV 3.4 30 JUNE 2008 379
REV 3.3 30 MAY 2008 380
REV 3.2 28 MARCH 2008 380
REV 3.1 28 FEBRUARY 2008 380
REV 3.0 15 AUGUST 2007 381
REV 2.2 3 NOVEMBER 2006 381
REV 2.1 15 SEPTEMBER 2006 381
REV 1.0 09 JUNE 2006 381

01 33 00 SUBMITTAL PROCEDURES – TASK ORDER SPECIFIC 381

REV 1.4 30 APRIL 2010 381
REV 1.3 31 OCTOBER 2009 381
REV 1.2 30 AUGUST 2009 382
REV 1.1 31 OCTOBER 2008 382
REV 1.0 28 MARCH 2008 382

01 33 16 DESIGN AFTER AWARD 382

REV 2.38 31 AUGUSTS 2012 382
REV 2.37 30 APRIL 2012 382
REV 2.36 31 JAN 2012 383
REV 2.35 30 NOV 2011 383
REV 2.34 31 JULY 2011 383
REV 2.33 01 MARCH 2011 384
REV 2.32 31 JANUARY 2011 384
REV 2.31 30 NOVEMBER 2010 384
REV 2.30 30 SEPTEMBER 2010 384
REV 2.29 31 AUGUST 2010 385
REV 2.28 30 JULY 2010 385
REV 2.27 30 JUNE 2010 385
REV 2.26 30 APRIL 2010 385
REV 2.25 31 MARCH 2010 385
REV 2.24 28 FEBRUARY 2010 385
REV 2.23 31 JANUARY 2010 385
REV 2.22 31 DECEMBER 2009 386
REV 2.21 30 SEPTEMBER 2009 386
REV 2.20 30 AUGUST 2009 386
REV 2.19 31 JULY 2009 386
REV 2.18 31 MAY 2009 386
REV 2.17 31 MARCH 2009 387
REV 2.16 28 FEBRUARY 2009 387
REV 2.15 31 JANUARY 2009 387
REV 2.14 30 NOVEMBER 2008 387
REV 2.13 30 SEPTEMBER 2008 389
REV 2.12 16 SEPTEMBER 2008 389
REV 2.11 29 AUGUST 2008 389
REV 2.10 31 JULY 2008 389
REV 2.9 30 MAY 2008 390
REV 2.8 30 APRIL 2008 390
REV 2.7 28 MARCH 2008 391
REV 2.6 31 JANUARY 2008 392
REV 2.5 15 DECEMBER 2007 392
REV 2.4 15 NOVEMBER 2007 392
REV 2.3 15 OCTOBER 2007 393
REV 2.2 25 SEPTEMBER 2007 393
REV 2.1 01 SEPTEMBER 2007 394
REV 2.0 15 AUGUST 2007 394
REV 1.12 15 JULY 2007 394
REV 1.11 15 JUNE 2007 394
REV 1.10 15 MAY 2007 394
REV 1.9 15 APRIL 2007 395
REV 1.8 15 MARCH 2007 395
REV 1.7 15 FEBRUARY 2007 395
REV 1.6 25 JANUARY 2007 396
REV 1.5 21 NOVEMBER 2006 397
REV 1.4 08 NOVEMBER 2006 398
REV 1.3 05 SEPTEMBER 2006 398
REV 1.1 21 JULY 2006 398
REV 1.0 15 MAY 2006 398

01 33 16 DESIGN AFTER AWARD – TASK ORDER SPECIFIC 398

NO LONGER USED – SEE 01 33 16 DESIGN AFTER AWARD 398

REV 1.7 31 MARCH 2010 398
REV 1.6 30 SEPTEMBER 2009 398
REV 1.5 31 JULY 2009 398
REV 1.4 30 NOVEMBER 2008 399
REV 1.3 30 SEPTEMBER 2008 399
REV 1.2 29 AUGUST 2008 399
REV 1.1 30 APRIL 2008 399
REV 1.0 28 MARCH 2008 400

01 45 02.01 10 QUALITY CONTROL SYSTEMS (QCS) 400

REV 3.0 30 JUNE 2008 400
REV 2.1 15 OCTBER 2007 400
REV 2.0 15 AUGUST 2007 400
REV 1.1 19 SEPTEMBER 2006 400
REV 1.0 15 MAY 2006 400

01 45 04.00 10 CONTRACTOR QUALITY CONTROL 400

REV 2.15 30 NOVEMBER 2011 401
REV 2.14 31 MARCH 2011 401
REV 2.13 31 JANUARY 2011 401
REV 2.12 30 APRIL 2010 401
REV 2.11 31 MARCH 2010 401
REV 2.10 31 DECEMBER 2009 401
REV 2.9 31 AUGUST 2009 402
REV 2.8 5 NOVEMBER 2008 402
REV 2.7 31 OCTOBER 2008 402
REV 2.6 31 JULY 2008 403
REV 2.5 30 JUNE 2008 403
REV 2.4 28 MARCH 2008 403
REV 2.3 31 JANUARY 2008 403
REV 2.2 15 DECEMBER 2007 404
REV 2.1 15 OCTOBER 2007 404
REV 2.0 15 AUGUST 2007 404
REV 1.7 15 APRIL 2007 404
REV 1.6 25 JANUARY 2007 404
REV 1.5 27 SEPTEMBER 2006 404
REV 1.4 08 SEPTEMBER 2006 405
REV 1.3 07 AUGUST 2006 405
REV 1.2 14 JULY 2006 405

01 45 04.00 10 CONTRACTOR QUALITY CONTROL – TASK ORDER SPECIFIC 405

REV 1.2 30 APRIL 2010 405
REV 1.1 5 NOVEMBER 2008 405
REV 1.0 28 MARCH 2008 406

01 50 02 TEMPORARY CONSTRUCTION FACILITIES 406

REV 2.6 30 APRIL 2010 406
REV 2.5 31 AUGUST 2009 406
REV 2.4 30 APRIL 2009 406
REV 2.3 30 NOVEMBER 2008 406
REV 2.2 30 SEPTEMBER 2008 406
REV 2.1 31 JANUARY 2008 406
REV 2.0 15 AUGUST 2007 407
REV 1.1 08 SEPTEMBER 2006 407
REV 1.0 15 MAY 2006 407

01 50 02 TEMPORARY CONSTRUCTION FACILITIES – TASK ORDER SPECIFIC 407

REV 1.5 31 JULY 2010.....407
REV 1.4 30 APRIL 2010.....407
REV 1.3 30 APRIL 2009.....407
REV 1.2 30 NOVEMBER 2008.....407
REV 1.1 30 SEPTEMBER 2008.....408
REV 1.0 28 MARCH 2008.....408

01 57 20.00 10 ENVIRONMENTAL PROTECTION 408

REV 3.2 30 JUNE 2010.....408
REV 3.1 28 FEBRUARY 2010.....408
REV 3.0 31 JANUARY 2008.....408
REV 2.0 15 AUGUST 2007.....408
REV 1.2 25 MAY 2007.....408
REV 1.1 15 FEBRUARY 2007.....408
REV 1.0 15 MAY 2006.....408

01 57 73 STORM WATER POLLUTION PREVENTION MEASURES (TASK ORDER SPECIFIC)....408

REV 1.0 15 AUGUST 2007.....409

01 62 35 RECYCLED/RECOVERED MATERIALS 409

REV 2.0 15 AUGUST 2007.....409
REV 1.0 15 MAY 2006.....409

01 78 02.00 10 CLOSEOUT SUBMITTALS 409

REV 2.14 31 JULY 2010.....409
REV 2.13 30 SEPTEMBER 2010.....409
REV 2.12 30 APRIL 2010.....409
REV 2.11 31 AUGUST 2009.....409
REV 2.10 30 NOVEMBER 2008.....409
REV 2.9 30 MAY 2008.....409
REV 2.8 30 APRIL 2008.....410
REV 2.7 28 FEBRUARY 2008.....410
REV 2.6 31 JANUARY 2008.....410
REV 2.5 15 DECEMBER 2007.....410
REV 2.4 15 NOVEMBER 2007.....410
REV 2.3 15 OCTOBER 2007.....410
REV 2.2 15 SEPTEMBER 2007.....410
REV 2.1 01 SEPTEMBER 2007.....411
REV 2.0 15 AUGUST 2007.....412
REV 1.9 15 JULY 2007.....412
REV 1.8 15 MAY 2007.....412
REV 1.7 15 APRIL 2007.....412
REV 1.6 15 FEBRUARY 2007.....412
REV 1.5 25 JANUARY 2007.....412
REV 1.4 21 NOVEMBER 2006.....413
REV 1.3 08 SEPTEMBER 2006.....413
REV 1.2 08 SEPTEMBER 2006.....413
REV 1.1 21 JULY 2006.....414
REV 1.0 15 MAY 2006.....414

APPENDIX K UTILITY COST INFORMATION 414

REV 1.3 31 OCTOBER 2008.....414
REV 1.2 29 AUGUST 2008.....414
REV 1.1 28 MARCH 2008.....414

REV 1.0 25 JANUARY 2007 415

APPENDIX L LEED PROJECT CREDIT GUIDANCE 415

REV 3.0 30 JUNE 2012 415
REV 2.3 31 JANUARY 2011 415
REV 2.2 16 JUNE 2010 415
REV 2.1 30 SEPTEMBER 2009 415
REV 2.0 30 NOVEMBER 2008 415
REV 1.2 25 MAY 2007 415
REV 1.1 28 FEBRUARY 2007 415
REV 1.0 23 FEBRUARY 2007 415

APPENDIX M LEED OWNER'S PROJECT REQUIREMENTS 415

REV 1.1 30 APRIL 2010 416
REV 1.0 15 SEPTEBMER 2007 416

APPENDIX N LEED REQUIREMENTS FOR MULTIPLE CONTRACTOR COMBINED PROJECT 416

REV 2.1 30 SEPTEMBER 2009 416
REV 2.0 30 NOVEMBER 2008 416
REV 1.0 15 SEPTEBMER 2007 416

APPENDIX O LEED STRATEGY TABLES 416

REV 1.1 30 SEPTEMBER 2009 416
REV 1.0 15 SEPTEBMER 2007 416

APPENDIX P USGBC REGISTRATION FOR ARMY PROJECTS 416

REV 1.0 30 NOVEMBER 2008 416

APPENDIX Q AREA COMPUTATION 416

REV 2.1 30 SEPTEMBER 2010 416
REV 2.0 31 MAY 2009 416
REV 1.0 15 SEPTEBMER 2007 417

APPENDIX R PRELIMINARY SUBMITTAL REGISTER 417

REV 1.6 30 JUNE 2012 417
REV 1.5 30 SEPTEMBER 2010 417
REV 1.4 30 SEPTEMBER 2010 417
REV 1.3 31 AUGUST 2010 418
REV 1.2 31 JULY 2010 418
REV 1.1 28 FEBRUARY 2010 418
REV 1.0 31 OCTOBER 2009 418

APPENDIX S MANUFACTURING PERFORMANCE REQUIREMENTS FOR .PLUMBING FIXTURES FROM THE ENERGY POLICY ACT OF 1992 (PUBLIC LAW 102-486). 418

REV 2.0 30 JUNE 2012 418
REV 1.0 31 MAY 2011 418

APPENDIX T FUNCTIONAL AREA LIGHTING CONTROL STRATEGY 418

REV 2.0 30 JUNE 2012 418
REV 1.0 31 JULY 2011 418

01525 SAFETY AND OCCUPATIONAL HEALTH REQUIREMENTS 418

DO NOT USE 418

01572 CONSTRUCTION AND DEMOLITION WAST MANAGEMENT 418

DO NOT USE 419

USE OF THIS DOCUMENT:

Most recent changes will be in RED so that specifier can easily identify the changes.

Any revision that affects the Wizard will have included a note similar to below. This is indicate to the specifier that the content of the wizard has changed and the project needs to be looked at again.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

NEW NUMBERING FOR SOLICITATIONS AND CONTRACTS

The US Army Corps of Engineers has adopted the Master Format 2004 numbering system for all construction solicitations and contracts. The following table is provided to identify the sections as they were numbered and as they are now numbered.

OLD NUMBERING	NEW NUMBERING	TITLE
	00 01 10	Table of Contents
00010	00 11 00	Standard Form (SF) 1442 and CLIN Schedule
00100	00 21 00	Instructions, Conditions and Notices to Offerors
00110	00 22 10	Phase 1 of a 2 Phase-Design Build Selection Procedures
00111	00 22 11	Proposal Submission Requirements, Evaluation Criteria, and Basis of Award One Step – Best Value, Design-Build (Single Award)
00120	00 22 20	Phase 2 Design-Build Selection Procedures and Basis of Award
00550	00 44 00	Procurement Forms and Supplements
00600	00 45 00	Representations and Certifications
00700	00 72 00	Contract Clauses
00800	00 73 00	Special Contract Requirements
00805	00 73 05	Design-Build Selection Procedures and Basis of Award
00810	00 73 10	Supplemental Contract Requirements
00820	00 73 46	Wage Determination Schedule
01010	01 10 00	Statement of Work
01012	01 33 16	Design After Award
01312A	(REVISED JUNE 2008) 01 45 01.00 10	Quality Control System (QCS)

01320A	01 32 01.00 10	Project Schedule
01330	01 33 00	Submittal Procedures
01355A	01 57 20.00 10	Environmental Protection
01451A	01 45 04.00 10	Contractor Quality Control
01500A	01 50 02	Temporary Construction Facilities
01670	01 62 35	Recycled/Recovered Materials
01780	01 78 02.00 10	Closeout Submittals
	01 57 73	Storm Water Pollution Prevention Measures

00 01 10 TABLE OF CONTENTS – PHASE I

REV 1.13 30 JUNE 2012

1. Deleted Appendices S and T.

REV 1.12 31 JULY 2011

1. Added appendix T, Functional Area Lighting Control Strategy.

REV 1.11 31 MAY 2011

1. Added Appendix S, Manufacturing Performance requirements for Plumbing Fixtures from EPACT 92

REV 1.10 31 JANUARY 2010

1. Appendix O renamed from “LEED Strategy Tables” to “LEED Multiple Contractor Responsibilities Table”

REV 1.9 31 OCTOBER 2009

1. Added Appendix R, “RMS Submittal Register Input Form”, formerly Attachment A to Section 01 33 00, “Sample Preliminary Submittal Register”. Specifier to complete the Preliminary Submittal Register, using Appendix R. and provide as a pdf file in the RFP. After Award, provide to the Contractor for preparing the Submittal Register in QCS module of RMS.

REV 1.8 31 JANUARY 2009

1. Revised Title of Appendix F from “Photos of Surrounding Buildings” to “Conceptual Aesthetic Considerations”

REV 1.7 30 NOVEMBER 2008

1. Added two new Appendices: Appendix P, USGBC Registration of Army Projects and Appendix Q, AREA COMPUTATION

REV 1.6 31 OCTOBER 2008

1. Revised title of APPENDIX K to UTILITY COST INFORMATION

REV 1.5 29 AUGUST 2008

1. Revised title of APPENDIX K to FUEL COST INFORMATION and deleted all references to Life Cycle Cost Analysis.

REV 1.4 30 JUNE 2008

1. Revised Section number of QCS from SECTION 01 45 02.00 10 to SECTION 01 45 01.10 to conform with January 08 numbering and update in the Unified Facilities Guides Specifications (UFGS)

REV 1.3 15 DECEMBER 2007

1. Corrected spelling of Appendix A Geotechnical

REV 1.2 15 NOVEMBER 2007

1. Revised to note which parts will be For Information Only in Phase 1.

00 01 10 TABLE OF CONTENTS – PHASE II

REV 1.13 30 JUNE 2012

1. Deleted Appendices S and T.

REV 1.12 31 JULY 2011

1. Added appendix T, Functional Area Lighting Control Strategy.

REV 1.11 31 MAY 2011

1. Added Appendix S, Manufacturing Performance requirements for Plumbing Fixtures from EPACT 92

REV 1.11 31 JANUARY 2010

1. Appendix O renamed from “LEED Strategy Tables” to “LEED Multiple Contractor Responsibilities Table”

REV 1.10 31 OCTOBER 2009

1. Added Appendix R, “RMS Submittal Register Input Form”, formerly Attachment A to Section 01 33 00, “Sample Preliminary Submittal Register”. Specifier to complete the Preliminary Submittal Register, using Appendix R. and provide as a pdf file in the RFP. After Award, provide to the Contractor for preparing the Submittal Register in QCS module of RMS.

REV 1.9 31 JANUARY 2009

1. Revised Title of Appendix F from “Photos of Surrounding Buildings” to “Conceptual Aesthetic Considerations”

REV 1.8 30 NOVEMBER 2008

1. Added two new Appendices: Appendix P, USGBC Registration of Army Projects and Appendix Q, AREA COMPUTATION

REV 1.7 31 OCTOBER 2008

1. Revised title of APPENDIX K to UTILITY COST INFORMATION

REV 1.6 29 AUGUST 2008

1. Revised title of APPENDIX K to FUEL COST INFORMATION and deleted all references to Life Cycle Cost Analysis.

REV 1.5 30 JUNE 2008

1. Revised Section number of QCS from SECTION 01 45 02.00 10 to SECTION 01 45 01.10 to conform with January 08 numbering and update in the Unified Facilities Guides Specifications (UFGS)

REV 1.4 15 DECEMBER 2007

1. Corrected spelling of Appendix A Geotechnical

REV 1.3 15 NOVEMBER 2007

1. Revised to note which parts will be For Information Only in Phase 2.

00 01 10 TABLE OF CONTENTS – IDIQ PHASE I

REV 1.10 30 JUNE 2012

1. Deleted Appendices S and T.

REV 1.9 31 JULY 2011

1. Added appendix T, Functional Area Lighting Control Strategy.

REV 1.8 31 MAY 2011

1. Added Appendix S, Manufacturing Performance requirements for Plumbing Fixtures from EPACT 92

REV 1.7 31 JANUARY 2010

1. Appendix O renamed from “LEED Strategy Tables” to “LEED Multiple Contractor Responsibilities Table”

REV 1.6 31 OCTOBER 2009

1. Added Appendix R, “RMS Submittal Register Input Form”, formerly Attachment A to Section 01 33 00, “Sample Preliminary Submittal Register”. Specifier to complete the Preliminary Submittal Register, using Appendix R. and provide as a pdf file in the RFP. After Award, provide to the Contractor for preparing the Submittal Register in QCS module of RMS.

REV 1.5 31 JANUARY 2009

1. Revised Title of Appendix F from “Photos of Surrounding Buildings” to “Conceptual Aesthetic Considerations”

REV 1.4 30 NOVEMBER 2008

1. Added two new Appendices: Appendix P, USGBC Registration of Army Projects and Appendix Q, AREA COMPUTATION

REV 1.3 31 OCTOBER 2008

1. Revised title of APPENDIX K to UTILITY COST INFORMATION

REV 1.2 29 AUGUST 2008

1. Revised title of APPENDIX K to FUEL COST INFORMATION and deleted all references to Life Cycle Cost Analysis.

REV 1.1 30 JUNE 2008

1. Revised Section number of QCS from SECTION 01 45 02.00 10 to SECTION 01 45 01.10 to conform with January 08 numbering and update in the Unified Facilities Guides Specifications (UFGS)

REV 1.0 28 MARCH 2008

1. Baseline Document

00 01 10 TABLE OF CONTENTS – IDIQ PHASE II

REV 1.13 30 JUNE 2012

1. Deleted Appendices S and T.

REV 1.12 31 JULY 2011

1. Added appendix T, Functional Area Lighting Control Strategy.

REV 1.11 31 MAY 2011

1. Added Appendix S, Manufacturing Performance requirements for Plumbing Fixtures from EPACT 92

REV 1.10 31 JANUARY 2010

1. Appendix O renamed from “LEED Strategy Tables” to “LEED Multiple Contractor Responsibilities Table”

REV 1.9 31 OCTOBER 2009

1. Added Appendix R, “RMS Submittal Register Input Form”, formerly Attachment A to Section 01 33 00, “Sample Preliminary Submittal Register”. Specifier to complete the Preliminary Submittal Register, using Appendix R. and provide as a pdf file in the RFP. After Award, provide to the Contractor for preparing the Submittal Register in QCS module of RMS.

REV 1.8 31 JANUARY 2009

1. Revised Title of Appendix F from “Photos of Surrounding Buildings” to “Conceptual Aesthetic Considerations”

REV 1.7 31 DECEMBER 2008

1. Designated Sections 00 72 00, 00 73 00 and All Sections in Division 01- General requirements with asterisks and added a note which indicates that those designated sections are included in the Base ID/IQ contract:

   NOTE: ** Indicates the Sections which are included in the Base ID/IQ Contract. From time to time the Government may update these Sections by Administrative Modifications for application to task order orders issued subsequently. Other Sections, Appendices, etc. will be included in each Specific Task Order, as indicated in TASK ORDER SPECIFIC REQUIREMENTS, above.

REV 1.6 30 NOVEMBER 2008

1. Added two new Appendices: Appendix P, USGBC Registration of Army Projects and Appendix Q, AREA COMPUTATION

REV 1.5 31 OCTOBER 2008

1. Revised title of APPENDIX K to UTILITY COST INFORMATION

REV 1.4 18 SEPTEMBER 2008

1. Deleted duplicate CLIN Schedule listing

REV 1.3 29 AUGUST 2008

1. Revised title of APPENDIX K to FUEL COST INFORMATION and deleted all references to Life Cycle Cost Analysis.

REV 1.2 30 JUNE 2008

1. Revised Section number of QCS from SECTION 01 45 02.00 10 to SECTION 01 45 01.10 to conform with January 08 numbering and update in the Unified Facilities Guides Specifications (UFGS)

REV 1.1 15 MAY 2008

1. Revised to include all Division 1 documents and separated out the Seed Task Order documents.

REV 1.0 28 MARCH 2008

1. Baseline Document

00 01 10 TABLE OF CONTENTS – TASK ORDER

REV 1.13 30 JUNE 2012

1. Deleted Appendices S and T.

REV 1.12 31 JULY 2011

1. Added appendix T, Functional Area Lighting Control Strategy.

REV 1.11 31 MAY 2011

1. Added Appendix S, Manufacturing Performance requirements for Plumbing Fixtures from EPACT 92

REV 1.10 31 JANUARY 2010

1. Appendix O renamed from “LEED Strategy Tables” to “LEED Multiple Contractor Responsibilities Table”

REV 1.9 31 OCTOBER 2009

1. Added Appendix R, “RMS Submittal Register Input Form”, formerly Attachment A to Section 01 33 00, “Sample Preliminary Submittal Register”. Specifier to complete the Preliminary Submittal Register, using Appendix R. and provide as a pdf file in the RFP. After Award, provide to the Contractor for preparing the Submittal Register in QCS module of RMS.

REV 1.8 31 JANUARY 2009

1. Revised Title of Appendix F from “Photos of Surrounding Buildings” to “Conceptual Aesthetic Considerations”

2. Under Division 00, added: “See also Base Contract for Division 00 Sections”

REV 1.7 30 NOVEMBER 2008

1. Added two new Appendices: Appendix P, USGBC Registration of Army Projects and Appendix Q, AREA COMPUTATION

REV 1.6 31 OCTOBER 2008

1. Revised title of APPENDIX K to UTILITY COST INFORMATION

2. Added missing reference to Section 01 33 00 Submittal Procedures

REV 1.5 29 AUGUST 2008

1. Revised title of APPENDIX K to FUEL COST INFORMATION and deleted all references to Life Cycle Cost Analysis.

REV 1.4 28 MARCH 2008

1. Renumbered and renamed Section 00 73 05 “Design-Build Selection Procedures and Basis of Award”. Now is to Section 00 22 30 “Task Order Selection Procedures and Basis of Award”

2. Added notations that this is task order specific information.

3. Deleted Section 01 57 20.00 10 Environmental Protection and Added note to specifier that this information goes into Section 01 10 10, paragraph 6.

4. Corrected numbering of Section 01 57 73 to “01 57 23” and renamed the Section “Temporary Storm Water Pollution Control”, per the latest UFGS.

5. Added Section 01 33 30, Submittal Procedures. For design-build task orders, the specifier identifies the number of submittals to be provided and the number that the government will return to contractor. If this is a construction only task order (no design involved), specifier should use the standard construction UFGS.

6. Renamed section 01 10 00.[TONUM], “Task Order Statement of Work”

REV 1.3 15 DECEMBER 2007

1. Corrected spelling of Appendix A Geotechnical

00 21 00 INSTRUCTIONS TO OFFERORS

REV 2.5 31 JULY 2009

1. Para, 1.7. The following wording only appears if this is a 2 Phase, C-Type Solicitation:

“However, a stipend may be authorized for unsuccessful Phase 2 offerors in accordance with Section 00 22 20”

2. Para. 1.11 (c), The following wording only appears if this is a 2 Phase, C-Type Solicitation:

"…required in Phase 2…"

REV 2.4 30 NOVEMBER 2008

1. Revised first part of paragraph 1.4 to read:

   COPIES OF SOLICITATION DOCUMENTS AND AMENDMENTS

   NOTE TO SPECIFIER: Fill in the correct FBO website address for the solicitation

   Copies of the solicitation and amendments are available by **INTERNET ACCESS ONLY.** All solicitation documents will be posted to the Federal Business Opportunities website at: [FBO WEBSITE ADDRESS INCLUDING SOLICITATION NUMBER]

REV 2.3 15 NOVEMBER 2007

1. Revised Paragraph 1.4 to add the following sentence:.

"A list of interested vendors (potential offerors and subcontractors) is available on the federal business opportunities web site (registration required) is available at: http://www.fbo.gov/ via Quick Search (Solicitation No. [CONTRACT_NUMBER])."

REV 2.2 11 OCTOBER 2007

1. Revised Paragraph 1.4 to read as follows:.

"1.4. COPIES OF SOLICITATION DOCUMENTS AND AMENDMENTS

Copies of the solicitation and amendments are available by **INTERNET ACCESS ONLY**. All solicitation documents will be posted through the Army's Single Face to Industry (ASFI) to the Federal Technical Data Solutions (FedTeDS) website at:

[ISSUING_DIST_WEB]

http://www.fedteds.gov/fedteds/start.nsf/frm.vendorlogin?openform&SolicitationNumber=[CONTRACT_NUMBER]

It shall be the contractor's responsibility to check the websites for any amendments. The offeror shall submit in the proposal all requested information specified in this solicitation. There will be no public opening of the proposals received as a result of this solicitation.

Additional information regarding this solicitation and potential offerors and/or subcontractors is available at [ISSUING_DIST_CWEB]."

REV 2.1 01 SEPTEMBER 2007

1. Solicitation provision paragraph has been revised with updated clause information from the MT Team.

REV 2.0 15 AUGUST 2007

1. Revised all references from old numbering system to Master Format 2004

REV 1.5 15 JULY 2007

1. Removed "issued with this task order" from the last sentence of Paragraph 1.1.

REV 1.4 15 MAY 2007

1. Generally changed the word “clause” in this section to “provision”. Clauses in Section 00100 are referred to as “provisions” in the Federal Acquisition Regulations.

REV 1.3 23 FEBRUARY 2007

1. Paragraph 1.13, Small Business Subcontracting Plan/Small Business Subcontracting Goals has been revised to provide goals that are a percentage of total subcontracted amounts in lieu of total contract amount. In addition, the goals apply to a prime contractors/offerors, whether small or large business.

REV 1.2 08 NOVEMBER 2006

1. Changed title of paragraph 1.14 in the Table of Contents to “Solicitation Provisions”

2. Paragraph 1.11 Proposal Format, (b) Drawing Sheets, revised full size drawing size from 24”X 36” to ”22 X 34”.

REV 1.1 03 AUGUST 2006

1. Revised the title of paragraph 1.14 in the Table of Contents from “Contract clauses” to “Contract Provisions”

REV 1.0 15 MAY 2006

1. Baseline Document

00 21 00(ID/IQ) INSTRUCTIONS TO OFFERORS

REV 1.7 31 JULY 2009

1. Para, 1.7. The following wording only appears if this is a 2 Phase, C-Type Solicitation:

“However, a stipend may be authorized for unsuccessful Phase 2 offerors in accordance with Section 00 22 20”

2. Para. 1.11 (c), The following wording only appears if this is a 2 Phase, C-Type Solicitation:

“…required in Phase 2…”

REV 1.6 30 NOVEMBER 2008

1. Revised first part of paragraph 1.4 to read:

   COPIES OF SOLICITATION DOCUMENTS AND AMENDMENTS

   NOTE TO SPECIFIER: Fill in the correct FBO website address for the solicitation

   Copies of the solicitation and amendments are available by **INTERNET ACCESS ONLY.** All solicitation documents will be posted to the Federal Business Opportunities website at: [FBO WEBSITE ADDRESS INCLUDING SOLICITATION NUMBER]

REV 1.5 28 MARCH 2008

1. Paragraph 1, GENERAL DESCRIPTION OF WORK, revised language and added description of initial task order.

2. CONTRACT COST CEILING LIMITATION FOR DESIGN AND CONSTRUCTION COSTS, provided alternate choice of wording per CESWF, Lisa Billman.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 1.4 1 MARCH 2008

1. Revised paragraph 1.1 to explain that the contract is for the Base Award of a SATOC or MATOC ID/IQ contract and for award of the first task order to the base contract awardee (or one of the base contract awardees).

REV 1.3 15 NOVEMBER 2007

1. Revised Paragraph 1.4 to add the following sentence:.

"A list of interested vendors (potential offerors and subcontractors) is available on the federal business opportunities web site (registration required) is available at: http://www.fbo.gov/ via Quick Search (Solicitation No. [CONTRACT_NUMBER])."

REV 1.2 11 OCTOBER 2007

1. Revised Paragraph 1.4 to read as follows:.

"1.4. COPIES OF SOLICITATION DOCUMENTS AND AMENDMENTS

Copies of the solicitation and amendments are available by **INTERNET ACCESS ONLY**. All solicitation documents will be posted through the Army's Single Face to Industry (ASFI) to the Federal Technical Data Solutions (FedTeDS) website at:

[ISSUING_DIST_WEB]

http://www.fedteds.gov/fedteds/start.nsf/frm.vendorlogin?openform&SolicitationNumber=[CONTRACT_NUMBER]

It shall be the contractor's responsibility to check the websites for any amendments. The offeror shall submit in the proposal all requested information specified in this solicitation. There will be no public opening of the proposals received as a result of this solicitation.

Additional information regarding this solicitation and potential offerors and/or subcontractors is available at [ISSUING_DIST_CWEB]."

REV 1.1 01 SEPTEMBER 2007

1. Solicitation provision paragraph has been revised with updated clause information from the MT Team.

REV 1.0 15 AUGUST 2007

1. Baseline Document

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

00 22 10 PHASE 1 OF 2 PHASE DESIGN-BUILD SELECTION PROCEDURES

REV 6.12 31 OCTOBER 2012

1. Revised to add Battlefield Weather Support Facility, Training Support Center, Urban Assault Course, and Basic 10M-25M Firing Range in Paragraph 5.1.1

REV 6.11 31 JUNE 2012

1. Revised to add Chaplain Family Life Center and Religious Education Facility in Paragraph 5.1.1

REV 6.10 30 SEPTEMBER 2011

1. Revised Index and renamed paragraph 9.5 from “Past Performance Risk Ratings” to “Past Performance Confidence Assessment Rating System” to comply with mandatory DoD.Source Selection Procedures. Revised the rating system.

2. Updated paragraph 6.2, Evaluation Criteria for Past Performance to comply with DoD SS Procedures.

REV 6.9 31 MAY 2011

1. Paragraph 9.4.3, Rating System, Revised rating definitions to comply with new DoD Evaluation Guide.

REV 6.8 31 JANUARY 2011

1. Revised paragraph 5.1 to add MODIFIED RECORD FIRE RANGE (MRF)

REV 6.7 31 MAY 2010

1. Revised title of Unmanned Aircraft Systems (UAS) Hangars to Manned and Unmanned Hangars in Paragraph 5.1.1 (NEW VERSION ONLY)

2. Para. 5.1, last sentence, changed “that” to “than”.

3. Added Attack or Assualt Battalion, or Cavalry Squad (AAC) Hangar Facility in Paragraph 5.1.1 (NEW VERSION ONLY)

REV 6.6 30 APRIL 2010

1. Paragraph 5.1, spelling corrections.

2. Added Unmanned Aircraft Systems (UAS) Hangars to Paragraph 5.1.1 (NEW VERSION ONLY)

REV 6.5 31 JULY 2009

1. Added Access Control Points to Paragraph 5.1.1 (NEW VERSION ONLY)

2. Para. 5.1.1, delete the words “from those discussed in the experience narrative”, with respect to submitting project experience.

3. In numerous paragraphs, replaced the word “satisfactory” with “acceptable” to be consistent with the rating definitions.

REV 6.4 31 OCTOBER 2008

1. Paragraph 7.2.8, evaluation criteria for Key Personnel Capabilities and Experience, added qualifications for fire protection engineer from UFC 3-600-01:

"The fire protection engineer of record shall be a registered professional engineer (P.E.) who has passed the fire protection engineering written examination administered by the National Council of Examiners for Engineering and Surveys (NCEES), or a registered P.E. in a related engineering discipline with a minimum of 5 years experience, dedicated to fire protection engineering that can be verified with documentation."

REV 6.3 30 JUNE 2008

1. Paragraph 3, Tab C, Factor 3, added the word "important", which was inadvertently omitted in previous version.

REV 6.2 30 APRIL 2008

1. Revised to Physical Fitness Facility and Army Fire Stations

2. Paragraph 5.2.3, revised wording to allow LEED silver certifiable projects in addition to those certified silver projects:

   "The firm(s) preparing the design must demonstrate qualifications and experience in sustainable design and development and design, based on project experience on projects that have achieved US Green Building Council's LEED certification<REV> or were certifiable at LEED silver or better</REV> or project experience on completed Corps of Engineers design-build projects that were validated as having achieving LEED silver rating <fiscal_Year> or the Corps of Engineer's SPiRiT Rating Tool</fiscal_Year> for an acceptable rating…"

REV 6.1 28 MARCH 2008

1. Revised to add Youth Center Facility Type

2. Revised to add Consolidate Fire, Safety, and Security Facility

3. Revised paragraph 5.1.1 to add Warriors in Transition Complex.

REV 6.0 15 DECEMBER 2007

1. Overall revision to update and simplify. Revised past performance evaluation period to 5 years to be consistent with recent experience period, as allowed by Army Source Selection Manual and recent case law.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 5.4 15 NOVEMBER 2007

1. Revised paragraph 5.1.1 to be a bullet list of facility types rather than a numbered list.

REV 5.3 15 OCTOBER 2007

1. Corrected paragraph 7.1.8, and Attachment 5 to clarify that the permit preparers must be registered in the state that the project is located in, to match 7.2.8. This was the original intent of the requirement but it was inadvertently edited.

2. Revised paragraphs 7.1.8 and 7.2.8 to indicate that where projects are located in states that require a separate registration for design of structures that the structural designer of record must be registered in that state. Due to various structural design issues, several states require separate registration for structural designers.

3. Clarified in paragraph 7.1.8 that all other designers of record must be registered in accordance with contract clause 52.236-25 Requirements for Registration of Designers.

4. Corrected attachment 5 to match the list of designers identified in paragraph 7.1.8

5. Revised paragraph 5.1.1 to add Command and Control Facility, General Instruction Building, and Criminal Investigation Division Command.

REV 5.2 10 SEPTEMBER 2007

1. Revised paragraph 5.1.1 to add Army Community Service Center.

REV 5.1 01 SEPTEMBER 2007

1. Revised paragraph 5.1.1 to add Child Development Center and Unique Facility Types.

REV 5.0 15 AUGUST 2007

1. Revised all references from old numbering system to Master Format 2004

REV 4.3 15 JUNE 2007

1. In both Paragraphs 6.1.1 and 6.2.2, revised to read that past performance will be reviewed based on the past 3 years not 5 as previously stated. Change made in accordance with FAR 42.1503(e).

2. In paragraph 7.1.8, revised the following sentence

   “Include the prime contractor’s project manager responsible for design and construction, the design manager, the designers of record for architecture, civil, geotechnical, fire protection (if known), electrical, and mechanical, and permit preparers (registered in the state the project is located in).”

   with the following:

   “Include the prime contractor's project manager responsible for design and construction, the design manager, the designers of record for architecture, interior design, structural, civil, geotechnical, fire protection, electrical, mechanical/plumbing, and permit preparers (all shall be professionally registered in the state the project is located).”

REV 4.2 15 MAY 2007

1. New paragraph 9.3.6, added definition of a deviation to more strongly emphasize that the proposal must conform to the RFP requirements (see existing language in basis of award paragraph 2.1) and that offerors must not deviate from the solicitation requirements.

2. Paragraph 7.1.7, added a sentence to the submission requirements to be consistent with the corresponding evaluation criteria in paragraph 7.2.7.

   “In addition to the required designer-of-record roles specified within the RFP for maintaining integrity of the design, describe any other DOR involvement in the quality control process, if any.“

REV 4.1 15 MARCH 2007

1. Paragraph 5.2.2, revised second sentence. Replaced the word “rated” with “evaluated”.

2. Paragraph 7.1.4. Proposal submission requirements; refer the reader to Section 01012 for CADD/BIM requirements. As of FY 08 BIM will be mandatory, not just desirable

3. Paragraph 7.1.7, added clarification that key personnel evaluation is required for C-type contracts for Tier 1 BCT facilities.

4. Paragraph 7.2.4, evaluation criteria, added note to specifier and added a selection choice for whether BIM is mandatory or desirable.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

5. Paragraph 9.4.3, rating system, added note, clarifying that the adjectival rating system includes the proposal risk assessment.

6. Corrected errata in Attachment 3, design specialized experience form.

7. Paragraph 6.1.1, clarified in second sentence that there is no separate past performance submission of the same form that was submitted for specialized experience.

8. Paragraph 2.1, corrected reference from “Section 00800” to “contract clause” for the clause “Requirements for Registration of Designers”.

REV 4.0 23 FEBRUARY 2007

1. This major revision eliminated previous factors for Key Personnel Capabilities and Experience and Evidence of Bonding Capability per direction of the PARC’s Office in February 2007. Key Personnel Capabilities and Experience is now included in the Organization and Technical Approach Factor for Tier 1 BCT facilities, when using the C-type (single project award) type contract format.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

2. Numerous editorial revisions are included.

3. Proposal Risk assessment is now incorporated into the adjectival rating descriptions.

4. Revised the Sustainability experience submission requirements and evaluation criteria under the Experience factor.

5. Corrected an error in Attachment 3, the form for providing project experience for the design firm or in-house, if not subcontracted.

REV 3.3 3 NOVEMBER 2006

1. Paragraph 7.2.1. Corrected the language to indicate that Government evaluates the proposal “to determine how well the offeror identifies and demonstrates that…” In addition, the Government will evaluate not just how the proposal meets minimum requirements but how it “meets or exceeds the minimum requirements…”

2. Paragraph 7.2.1. Added minimum qualifications for “project manager” and “design manager”

   “The minimum experience requirements for the Project Manager are at least 5 years construction and construction management experience. The minimum experience

requirements for the Design manager are at least 5 years of design experience or at least 5 years of construction and construction management experience. ”

REV 3.2 19 SEPTEMBER 2006

1. Paragraph 8.1.5, changed the name of the “preliminary schedule” to “summary schedule” to clarify that this schedule is not the “preliminary schedule”, which is required by Section 01320 Project Schedule, after award.

REV 3.1 04 AUGUST 2006

1. Per request from Omaha District on their FY 06 Pilot at Ft. Carson, revised paragraph 5.2.2 to clarify that the evaluation of experience is relevant to the firm’s role on this project

   “5.2.2 The Government will evaluate the extent of recent, related experience of the prime contractor and design firms in design, construction or design-build, as relevant to their role on this project”

REV 3.0 14 JUNE 2006

1. Baseline Document

00 22 10(ID/IQ) PHASE 1 OF 2 PHASE DESIGN-BUILD SELECTION PROCEDURES

REV 2.7 30 SEPTEMBER 2011

1. The name Consolidated, Fire, Safety, and Security has been changed to Department of Emergency Services in entire document.

2. Revised Index and renamed paragraph 7.9 from “Past Performance Risk Ratings” to “Past Performance Confidence Assessment Rating System” to comply with mandatory DoD.Source Selection Procedures. Revised the rating system.

3. Updated paragraph 6.2, Evaluation Criteria for Past Performance to comply with DoD SS Procedures.

REV 2.6 31 MAY 2011

1. Paragraph 9.3.3, Rating System, Revised rating definitions to comply with new DoD Evaluation Guide.

2. Paragraphs 9.4.7 – 9.4.11, revised rating definitions per above.

REV 2.5 30 APRIL 2010

1. Para. 5.1, spelling corrections.

REV 2.4 31 JULY 2009

1. Para. 5.1.1, delete the words “from those discussed in the experience narrative”, with respect to submitting project experience.

2. In numerous paragraphs, replaced the word “satisfactory” with “acceptable” to be consistent with the rating definitions.

REV 2.3 30 SEPTEMBER 2008

1. Revised the question in the wizard regarding short listing of firms. For ID/IQ Base contract award, the number of firms to be short-listed in Phase 1 for the Phase 2

competition is a specifier selection. We recommend that the number be two (2) more than the maximum number of base contract awardees in Phase 2. The current default value for Phase 2 Base contract awardees is three (3).

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

2. Paragraph 1.1, under OVERVIEW, revised the last sentence only for clarity:

   "The Government will evaluate the qualifications in accordance with the criteria described in Section, 00 22 20 and will short-list no more than [short_list] of the Phase 1 Offerors to compete for the base ID/IQ contract awards and for the initial task order award in Phase 2."

3. Paragraph 1.2, under OVERVIEW, added for clarity, consistent with Section 00 22 20: "In Phase 2, the Contracting Officer will award up to three firm fixed-price Indefinite Delivery Indefinite Quantity contracts to those firms whose proposals offer the best overall value to the Government, considering the price and non-price factors described in Phase 2. One of the Phase 2 contract awardees will be awarded the initial task order in accordance with the Phase 2 evaluation and award procedures."

REV 2.2 30 JUNE 2008

1. Paragraph 3, Tab C, Factor 3, added the word "important", which was inadvertently omitted in previous version.

REV 2.1 30 APRIL 2008

1. Paragraph 5.2.3, revised wording to be consistent with the C-Type one step and two-phase sections:

   "The firm(s) preparing the design must demonstrate qualifications and experience in sustainable design and development and design, based on project experience on projects that have achieved US Green Building Council's LEED certification or were certifiable at LEED silver or better or project experience on completed Corps of Engineers design-build projects that were validated as having achieving LEED silver rating for an acceptable rating. Additional consideration will be given if both the constructor and the design firm(s) demonstrate qualifications and experience on LEED."

REV 2.0 15 DECEMBER 2007

1. Overall update and revision to simplify. Revised past performance evaluation period to 5 years to be consistent with recent experience period, as allowed by Army Source Selection Manual and recent case law.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 1.4 15 NOVEMBER 2007

1. Revised paragraph 5.1.1 to be a bullet list of facility types rather than a numbered list.

REV 1.3 15 OCTOBER 2007

1. Revised paragraph 5.1.1 to add Command and Control Facility, General Instruction Building, and Criminal Investigation Division Command.

REV 1.2 10 SEPTEMBER 2007

1. Revised paragraph 5.1.1 to add Army Community Service Center.

REV 1.1 01 SEPTEMBER 2007

1. Revised paragraph 5.1.1 to add Child Development Center and Unique Facility Types.

REV 1.0 15 AUGUST 2007

1. Baseline Document

00 22 11 PROPOSAL SUBMISSION REQUIREMENTS EVALUATION CRITERIA, AND BASIS OF AWARD ONE STEP – BEST VALUE, DESIGN-BUILD (SINGLE AWARD)

REV 5.21 31 OCTOBER 2012

1. Revised to add Battlefield Weather Support Facility, Training Support Center, Urban Assault Course, and Basic 10M-25M Firing Range in Paragraph 6.1.1.1

REV 5.20 30 JUNE 2012

1. Revised to add Chaplain Family Life Center and Religious Education Facility in Paragraph 6.1.1.1

REV 5.19 30 SEPTEMBER 2011

1. The name Consolidated, Fire, Safety, and Security has been changed to Department of Emergency Services in entire document.

2. Revised Index and renamed paragraph 8.5 from “Past Performance Risk Ratings” to “Past Performance Confidence Assessment Rating System” to comply with mandatory DoD.Source Selection Procedures. Revised the rating system.

3. Updated paragraph 6.2.2, Evaluation Criteria for Past Performance to comply with DoD SS Procedures.

REV 5.18 31 MAY 2011

1. Paragraph 8.4.3, revised rating definitions per DoD Source Selection Guide.

2. Para. 8.5.1, slight editing of 1st sentence to add an exclusion for Past Performance from the adjectival tech rating schema.

3. Paragraph Clarified design objectives:” It is the Army's objective that these buildings will have a 50 year useful life. The design and construction should provide an appropriate level of quality to ensure the continued use of the facility over that time period with the application of reasonable preventive maintenance and repairs that would be industry-acceptable to a major civilian sector project OWNER. The facility design should consider that the Army may repurpose the use of the facility over the 50 year life. The Army's intent is to install products and materials of good quality that meet industry standard average life that corresponds with the period of performance expected before a major renovation or repurpose. The design should be flexible and adaptable to possible future uses different than the current to the extent practical while still meeting the operational and functional requirements defined within. Flexibility is achieved through design of more flexible structural load-bearing wall and column system arrangements. The site infrastructure will have at least a 50-year life expectancy with industry-accepted maintenance and repair cycles. Develop the project site for efficiency and to convey a sense of unity or connectivity with the adjacent buildings and with the Installation as a

whole. Building useful life is defined by the length of service of the structural systems; concrete, masonry, steel, and wood in any combination. These structural systems last a lifetime when properly constructed and maintained. The building systems; electrical, mechanical, interior finishes etc. vary in useful life based on quality of the products and materials. Generally speaking these systems will last an average of 20-30 years. Historically the Army has often performed a major renovation or changed the use of the facility once in the first 25 years."

REV 5.17 31 JANUARY 2011

1. Paragraphs 5.5.1 and 5.5.2, WIZARD programmed to fill in the appropriate LEED version for submission by proposers, as selected elsewhere in the RFP. Currently reads "Version 2.2".

2. Revised paragraph 6.1.1 to add MODIFIED RECORD FIRE RANGE (MRF)

REV 5.16 30 NOVEMBER 2010

1. Paragraph 5.3.3.2, added: "**Desirable features, Government identified preferences, and Offeror identified betterments that are evaluated as true betterments and that are acceptable to the Government are all considered "betterments", if they are included within the contract cost limitation. The Government will identify those Offeror identified betterments that are not desired or are otherwise objectionable or unacceptable, if discussions are conducted with that Offeror."**

REV 5.15 31 OCTOBER 2010

1. Para. 5.3.3.2, changed the word "lowest" (Type of Construction) to "most economical".

REV 5.14 31 AUGUST 2010

1. Paragraph 6.3.1.1, Proposed Contract Duration. Added a Note to Specifier: "Be sure to include a CLIN in the CLIN Schedule for Proposed Contract Duration (Not to Exceed the maximum performance period allowed (normally 540 days per MT))."

2. Paragraph 7.2.2.1 Price Evaluation Criteria, added WIZARD coding to only include the sentence "Both parties shall presume that field overhead costs through the proposed contract duration are inclusive in the offered price for the contract" when the PDT allows proposers to bid the contract duration, selecting the radio button when "Required Contract Duration is based upon the Contractor's accepted proposal in accordance with the MILCON Transformation principle of allowing proposers to bid the contract duration. No time extension or extended overhead will be due the contractor for any delays to any scheduled early completion per Section 01 32 01.00 when the proposers bid the contract duration.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 5.13 31 JULY 2010

1. Para. 5.2.1.1 (c). **The Government is NOT evaluating the structural framing system or solution.**

REV 5.12 31 MAY 2010

1. Revised title of Unmanned Aircraft Systems (UAS) Hangars to Manned and Unmanned Hangars in Paragraph 6.1.1.1 (NEW VERSION ONLY)

2. Added Attack or Assualt Battalion, or Cavalry Squad (AAC) Hangar Facility in Paragraph 6.1.1.1 (NEW VERSION ONLY)

3. Para. 5.3.3.1, added “extended” before the word “warranties”.

4. Paragraph 6.1.1.1, last sentence of narrative, changed “that” to “than”.

5. Paragraph 6.3.2.1, In 4th sentence, changed to read: “A proposed contract duration matching the maximum allowed contract duration is “acceptable”

6. Para. 6.3.3.2, To 1st sentence, added: “In addition to the proposed contract duration, the…”

7. Para. 5.3.3.1, added the word “extended” in front of “warranties”.

8. Para. 5.1, added statement that use of BIM for proposal preparation and evaluation is NOT required and clarified that Govt is not going to do in depth design analysis of the proposal, that purpose of proposal is to focus on quality level, not detailed design. If the evaluators have actual knowledge or strong suspicions of a deficiency, the Gov’t will inform the proposer in the event that discussions with proposer are conducted. In the event of conflict between the proposal and the requirements, see the order of precedence SCR 1.2 will provide the order of precedence. The final design must comply with the RFP requirements except that accepted betterments become the new contract minimum requirements.

9. Para. 5.2.1.1, revised to require only one building section. The Government will use this information to evaluate functional and aesthetic considerations ,such as floor to ceiling heights and may use it to help evaluate exterior aesthetics and appearance. The Government may also use this information in conjunction with the submission information under the subfactor: QUALITY OF BUILDING SYSTEMS AND MATERIALS, below, to evaluate quality of wall finishes as well as looking at how the proposer has considered air barrier . **The Government is NOT evaluating the structural system or solution.** Schematic floor plans are not necessary if the Government provides the floor plans in the solicitation and the proposer proposes to use them, without change. In that event, the proposer must clearly acknowledge that it will provide the floor plan without change. If the proposer intends to change any Government provided floor plan, it must clearly identify any and all proposed changes to the floor plans, either on a floor plan or in a narrative.

10. Para. 5.3.2.3, - editorial changes plus changing wording to allow equipment “model series” or “model number”, if known.

11. Added similar discussion: “Acceptance of the proposal is not a guaranty that the proposed products meet the contractual requirements or that they are the appropriate size or application for the design which will be developed after award. The intent during the proposal submission and review process is not to require detailed design effort or to perform a detailed design engineering review but to focus on the proposed quality levels of materials and systems If the Government evaluators have actual knowledge or strong suspicion that a proposed product or solution is inappropriately sized, being used in the wrong application or otherwise wont meet the contract requirements, the Government will inform the proposer in the event that discussions are conducted with the firm. But the Government is not asking for design analyses in the proposal and is not obligated to perform an engineering design review at this stage. After, award, In the event of conflict between the contractor’s accepted proposal and the requirements in the final, amended

RFP, the order of precedence is indicated in Special Contract Requirement 1.2, DESIGN/BUILD CONTRACT – ORDER OF PRECEDENCE."

12. 5.3.2.2, editorial changes.

    Para. 5.3.3.2, (c) eliminated mechanical preferences as these are essential necessary to meet the performance requirements.

    Para. 5.3.3.2 (f), added: "Acceptance of the successful proposal does not constitute acceptance of a design that does not conform to ATFP requirements. Final designs must comply with the ATFP requirements."

    Para. 5.3.3.2 (g), added " …low impact development considerations that exceed the minimum contract requirements, utility…" to specific examples of desirable sitework features

13. Para. 5.4.1.1, combined schematic and Conceptual Site Plans into one combined drawing or drawings, Clarified that design narrative includes the preface, offeror can include sketches within the narrative and changed maximum length from 5 to 10 pages.

14. Para. 5.4.1.2 , Clarified that design narrative includes the preface, offeror can include sketches within the narrative and changed maximum length from 5 to 10 pages

15. Para. 5.4.1.2 (a), eliminated Positive drtainage from list.

16. Para. 5.4.1.2 (b), added site lighting considerations.

17. Para. 5.4.2.1, added sight lighting consideration in 2 places under Pedestrian and Vehicle Circulation and Storage.

18. Para. 5.4.2.1, under ATFP considerations, editorial revisions and added "The final design must comply with the ATFP requirements"

REV 5.11 30 APRIL 2010

1. Para. 6.1.1.1, spelling corrections.

2. Added Unmanned Aircraft Systems (UAS) Hangars to Paragraph 6.1.1.1 (NEW VERSION ONLY)

REV 5.10 31 JULY 2009

1. Added Access Control Points to Paragraph 6.1.1.1 (NEW VERSION ONLY)

2. Para. 6.1.1.1, delete the words "from those discussed in the experience narrative", with respect to submitting project experience.

3. In numerous paragraphs, replaced the word "satisfactory" with "acceptable" to be consistent with the rating definitions.

REV 5.9 31 MAY 2009

1. Paragraph 5.3.2.2. (i), deleted reference to Life Cycle Cost in Design Program.

REV 5.8 30 NOVEMBER 2008

1. Added paragraph 5.3.2.2.(i), proposal submission requirements for solar hot water heating, to meet EISA 2007 requirements.

2. Paragraph 5.3.3.2, Bold highlighted the general evaluation criteria which states that government identified preferences and Contractor identified betterments will only receive additional credit if they are provided within the contract cost limitation.

3. Added paragraph 5.3.3.2(i), proposal evaluation criteria for solar hot water heating, to meet EISA 2007 requirements.

REV 5.7 31 OCTOBER 2008

1. Paragraph 7.2.8, evaluation criteria for Key Personnel Capabilities and Experience, added qualifications for fire protection engineer from UFC 3-600-01:

   "The fire protection engineer of record shall be a registered professional engineer (P.E.) who has passed the fire protection engineering written examination administered by the National Council of Examiners for Engineering and Surveys (NCEES), or a registered P.E. in a related engineering discipline with a minimum of 5 years experience, dedicated to fire protection engineering that can be verified with documentation."

REV 5.6 30 SEPTEMBER 2008

1. Paragraph 5.2.2.2, Building Aesthetics, under (a), Exterior Considerations, added the following to stress that the design must meet the CCL and within that limitation, the Government will evaluate how well the proposed deign complies with the architectural theme expressed in the RFP:

   "To the extent possible within the government identified contract cost limitation (CCL), the proposal must comply with the look and feel of the Installation architectural theme identified in the Request for Proposals. The first priority in order of importance is how well the proposal provides comparable building mass, size, height, and configuration in comparison with the architectural theme expressed in the Solicitation. The second priority in order of importance is how well the proposal provides compatible exterior skin appearance based upon façade, architectural character (period or style), exterior detailing, matching the architectural theme expressed in the Solicitation.

   Proposals shall be evaluated on mass, size, height, and configuration in comparison with the architectural theme expressed in the Solicitation, design of facades, roof lines, delineation of entrances, proportions of fenestration in relation to elevations, shade and shadow effects, materials, textures, architectural character (period or style), exterior color schemes.

   How compatible is the proposed design with the installation architectural theme expressed in the RFP? If not an exact "copy" of the theme, how well does it harmonize or blend with the expressed theme?

   How well does the proposal provide comparable building mass, size, height, and configuration in comparison with the architectural theme expressed in the Solicitation?

   How well does the proposal provide compatible exterior skin appearance based upon façade, architectural character (period or style), exterior detailing, matching the architectural theme expressed in the Solicitation?…"

2. Paragraph 5.3.3.1, Evaluation Criteria, General, clarified last sentence: “Residential or similar grade finishes and materials are not acceptable for inclusion in these buildings, unless otherwise specifically stated as allowed in Section 01 10 00”

REV 5.5 30 JUNE 2008

1. Paragraph 5.5.2, sustainability evaluation criteria: Deleted first sentence to match the 2 phase versions. This was previously overlooked. Deleted:

REV 5.4 18 APRIL 2008

1. Paragraphs 5.5.1 and 5.5.2, updated reference to version 2.2 of LEED NC.

2. Paragraph 7.5.1.1, deleted “(see Appendix A of this solicitation for the full FAR clause)”. Clauses are included in Section 00 73 00.

3. Revised to add Physical Fitness Facility and Army Fire Stations

4. Paragraph 6.1.2.7, revised to allow LEED certifiable project experience in addition to certified project experience:

   “The firm(s) preparing the design must demonstrate qualifications and experience in sustainable design and development and design, based on project experience on projects that have achieved US Green Building Council’s LEED certification or project experience on completed Corps of engineers design-build projects that were validated as having achieving LEED silver rating<REV> or were certifiable at LEED silver or better</REV> <fiscal_Year> or the Corps of Engineer’s SPiRiT Rating Tool</fiscal_Year> for an acceptable rating…”

REV 5.3 28 MARCH 2008

1. Revised to add Youth Center Facility Type

2. Revised to add Consolidate Fire, Safety, and Security Facility

REV 5.2 09 MARCH 2008

1. Revised paragraph 5.1.1 to add Warriors in Transition Complex.

REV 5.1 31 JANUARY 2008

1. Edited Paragraph 6.1.1.1 to correct wording for key subcontractors where multiple facility types are involved.

2. Edited paragraphs 5.3.3.2 (c) and (e). In paragraph (c) mechanical components and systems, eliminated certain items identified as “preferable”, which will generally always be provided anyway, in order to meet energy reduction performance requirements (heat recovery systems) and (e) electrical components and systems, deleted some items listed as “preferences”, which are now required (spare capacity, high efficiency lighting) or are considered unnecessary (additional spare capacity, additional telephone, data and cable TV outlets).

3. Eliminated remaining references to UEPH, when a non-UEPH facility type is selected in the Wizard.

REV 5.0 15 DECEMBER 2007

1. Overall Revision to simply and update for consistency with the 2 phase documents. Revised past performance evaluation period to 5 years to be consistent with recent experience period, as allowed by Army Source Selection Manual and recent case law.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 4.4 15 NOVEMBER 2007

1. Revised paragraph 5.2.1.1 (b) to clarify that the purpose of the perspective rendering is to aide the evaluation team in evaluating the exterior aesthetics of the building(s) under the buildings aesthetics subfactor with enough detail to aid in the evaluation of the exterior building aesthetics, as described in paragraph 5.2.2.2 (a). The rendering can be as elaborate or simple as the offeror wants but it should understand that too simple an effort may not provide enough information to help evaluate the attractiveness of the building or the design of facades, roof lines, delineation of entrances, proportions of fenestration in relation to elevations, shade and shadow effects, materials, textures and exterior color schemes.

2. Revised paragraph 6.1.1.1 to be a bullet list of facility types rather than a numbered list.

REV 4.3 15 OCTOBER 2007

1. Revised paragraph 6.1.1.1 to add Command and Control Facility, General Instruction Building, and Criminal Investigation Division Command.

2. Corrected paragraph numbers under paragraphs 6.5.1 and 6.5.2.

3. Corrected paragraph 6.5.1, and Attachment 5 to clarify that the permit preparers must be registered in the state that the project is located in, to match 6.5.2. This was the original intent of the requirement but it was inadvertently edited.

4. Revised paragraphs 6.5.1 and 6.5.2 to indicate that where projects are located in states that require a separate registration for design of structures that the structural designer of record must be registered in that state. Due to various structural design issues, several states require separate registration for structural designers.

5. Clarified in paragraph 6.5.2 that all other designers of record must be registered in accordance with contract clause 52.236-25 Requirements for Registration of Designers.

6. Corrected attachment 7 to match the list of designers of record identified in paragraph 6.5.1.

REV 4.2 10 SEPTEMBER 2007

1. Revised paragraph 5.1.1 to add Army Community Service Center.

REV 4.1 01 SEPTEMBER 2007

1. Revised paragraph 5.1.1 to add Child Development Center and Unique Facility Types.

REV 4.0 15 AUGUST 2007

1. Revised all references from old numbering system to Master Format 2004

REV 3.2 15 JUNE 2007

1. In both Paragraphs 6.1.1 and 6.2.2, revised to read that past performance will be reviewed based on the past 3 years not 5 as previously stated. Change made in accordance with FAR 42.1503(e).

2. In paragraph 7.1.8, revised the following sentence

   "Include the prime contractor's project manager responsible for design and construction, the design manager, the designers of record for architecture, civil, geotechnical, fire protection (if known), electrical, and mechanical, and permit preparers (registered in the state the project is located in)."

   with the following:

   "Include the prime contractor's project manager responsible for design and construction, the design manager, the designers of record for architecture, interior design, structural, civil, geotechnical, fire protection, electrical, mechanical/plumbing, and permit preparers (all shall be professionally registered in the state the project is located)."

REV 3.1 15 MAY 2007

1. Paragraph 8.6.1 (and corresponding edit to 8.6.2.1), specifier may choose the option of all large business offerors submitting a subcontracting plan or only the otherwise apparently successful offeror

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

2. New paragraph 9.3.6, added definition of a deviation to more strongly emphasize that the proposal must conform to the RFP requirements (see existing language in Basis of Award paragraph 2.1) and that offerors must not deviate from the solicitation requirements.

3. Paragraph 6.3.1.2, removed the term "preliminary" from the Summary schedule proposal requirements to eliminate any possible confusion between this schedule and the preliminary schedule required after award by Section 01320, Project Schedule.

4. Paragraph 6.1.4.6, added a sentence to the submission requirements to be consistent with the corresponding evaluation criteria in paragraph 6.4.2.6.

   "In addition to the required designer-of-record roles specified within the RFP for maintaining integrity of the design, describe any other DOR involvement in the quality control process, if any."

REV 3.0 15 MARCH 2007

1. This was a major revision to incorporate the February 2007 and March 2007 revisions to Sections 00110 and 00120 into Section 00111, adapted for one step C-type (single award) contracts. In addition, there were several minor edits for wording, spelling and the like.

REV 2.11 15 JANUARY 2007

1. Corrected grammar in paragraph 2.1 Basis of Award.

2. Corrected reference to telephone reference form in paragraph 6.2.2.2.

3. Corrected reference to Factor “KEY PROJECT PERSONNEL CAPABILITIES AND EXPERIENCE” in last line of paragraph 6.5.1.2.

4. Corrected Attachment 4, letter l. to have the firm attach an explanation If it was terminated or assessed monetary damages for a listed project.

REV 2.10 22 DECEMBER 2006

1. Deleted Paragraphs 6.5.1.6 and 6.5.2.6, regarding self performed work. This was inadvertently overlooked when adapting Section 00110 to the one step 00111 model. Self performed work is evaluated as a Pro Forma requirement in paragraph 7.4.

REV 2.9 21 NOVEMBER 2006

1. Paragraph 4.1, Table of Factors for Volume 1, deleted the elements of interior considerations and exterior considerations under the Aesthetics subfactor. These were not intended to be separately rated, but were inadvertently overlooked in May 2006.

2. Paragraph 5.2.2.2, Building Aesthetics, revised to state that interior and exterior considerations are not rated separately, but are equal in consideration. This was inadvertently overlooked in the May 2006 revisions.

REV 2.8 3 NOVEMBER 2006

1. Paragraph 6.4.3. Corrected the language to indicate that Government evaluates the proposal “to determine how well the offeror identifies and demonstrates that…” In addition, the Government will evaluate not just how the proposal meets minimum requirements but how it “meets or exceeds the minimum requirements…”

2. Paragraph 6.4.3. Added minimum qualifications for “project manager” and “design manager”.

   “The minimum experience requirements for the Project Manager are at least 5 years construction and construction management experience. The minimum experience requirements for the Design manager are at least 5 years of design experience or at least 5 years of construction and construction management experience. ”

REV 2.7 19 OCTOBER 2006

1. Paragraph 5.3.2.1, Evaluation Criteria for Factor 2 - Quality of Building Systems And Materials: Added the following sentences to the end of the paragraph to clarify minimum quality requirements. “The minimum acceptable level of quality for finishes and materials for these buildings are those materials suitable for the expected population and usage. Residential or similar grade finishes and materials are not acceptable for inclusion in these buildings.”

REV 2.6 19 SEPTEMBER 2006

1. Renamed Factor 7: PROPOSED CONTRACT DURATION AND SUMMARY SCHEDULE, to reflect a change in the name of the schedule from “Preliminary Schedule” to “Summary Schedule”.

2. Changed the term “Preliminary Schedule” to “Summary Schedule” throughout the document. This was necessary because the term “Preliminary Schedule” refers to the first schedule required to be developed after contract award, per Section 01320. These are separate schedules. The schedule developed for the proposal is to be replaced after award with the working schedule. The schedule furnished with the proposal is used to evaluate the offeror’s understanding of the D-B process, scheduling capability, the

various constraints and to help evaluate the reasonableness of the proposed contract duration. The working schedule is developed during design development and detailed construction planning.

3. Paragraph 5.3.2.1 Evaluation Criteria for Factor 2 - Quality of Building Systems And Materials, clarified that the it “is the Army's objective that these buildings will have a 25-year useful design life before a possible reuse/repurpose or renovation requirement, to include normal sustainment, restoration, modernization activities and a 50-year building replacement life.”

REV 2.5 14 SEPTEMBER 2006

1. To clarify the government’s intent that the length of the schedule matches the offeror’s proposed contract duration, the wording of second sentence in Section 00111, paragraph 6.3.2.2,, evaluation criteria: “The length of the schedule ***should*** match the proposed contract duration” was changed to read: “The length of the schedule ***must*** match the proposed contract duration.”

2. To clarify and emphasize that the Government may reject or downgrade a proposed contract duration that is objectionably short, the fourth sentence in paragraph 6.3.2.1 was changed from: "An unreasonably condensed contract duration, which places additional cost or schedule risk on the Government will be considered a weakness" to read: "The Government will consider an unreasonably condensed contract duration, which places additional cost or schedule risk on the Government or which may create a risk of contract or performance failure, as a significant weakness or a deficiency, depending upon the evaluators' judgment."

3. To clarify how the contract duration will be evaluated in paragraph 6.3.2.1 the following sentence was added: "In assessing the reasonableness of the proposed contract duration, the Government may take into account how well the proposed preliminary schedule supports the proposed duration, as well as use other information, such as but not limited to independent judgment concerning logic, constraints and typical construction durations."

REV 2.4 04 AUGUST 2006

1. Per request of Omaha District on their FY06 pilot at Ft. Carson, paragraph 6.1.2.2 was clarified that the designers, constructor and key subcontractors are being evaluated with respect to their role on this project.

   “6.1.2.2 The Government will evaluate the extent of recent, related experience of the prime contractor, design firm(s) and key subcontractors in design, construction or design-build, as relevant to their role on this project.”

REV 2.3 21 JULY 2006

1. Per request by Omaha District on their FY 06 Ft. Carson Pilot, added paragraph 5.3.1.4 for the offeror to provide a list of any betterments in quality of equipment and materials.

2. Corrected the paragraph numbering for subparagraphs under 5.3.2.

3. Added 5.3.2.3 for the Government to list any preferences, in order of importance, that are within or exceed the performance requirements that are in Section 01010, not to exceed 5 preferences.

4. Sustainability Requirements. To comply with July 2006 ACSIM Implementation Guidance for SDD SPiRiT/LEED, added proposal submission and evaluation requirements for the LEED-NC Registered Project Checklist:

   (a) Paragraph 5.5.1, added: “The Offeror shall submit LEED-NC Registered Project Checklist demonstrating how it will achieve the Silver LEED rating.”

   (b) Paragraph 5.6, added: “All requirements identified as mandatory in Section 01010 or elsewhere in the Solicitation must be included and the proposal must meet the requirements of the LEED-NC requirements for a Silver rating."

REV 2.2 14 JUNE 2006

1. Baseline Document

00 22 20 PHASE 2 DESIGN-BUILD SELECTION PROCEDURES AND BASIS OF AWARD

REV 6.15 31 MAY 2011

1. “Paragraph 5.3.3.1, clarified objectives: It is the Army's objective that these buildings will have a 50 year useful life. The design and construction should provide an appropriate level of quality to ensure the continued use of the facility over that time period with the application of reasonable preventive maintenance and repairs that would be industry-acceptable to a major civilian sector project OWNER. The facility design should consider that the Army may repurpose the use of the facility over the 50 year life. The Army's intent is to install products and materials of good quality that meet industry standard average life that corresponds with the period of performance expected before a major renovation or repurpose. The design should be flexible and adaptable to possible future uses different than the current to the extent practical while still meeting the operational and functional requirements defined within. Flexibility is achieved through design of more flexible structural load-bearing wall and column system arrangements. The site infrastructure will have at least a 50-year life expectancy with industry-accepted maintenance and repair cycles. Develop the project site for efficiency and to convey a sense of unity or connectivity with the adjacent buildings and with the Installation as a whole. Building useful life is defined by the length of service of the structural systems; concrete, masonry, steel, and wood in any combination. These structural systems last a lifetime when properly constructed and maintained. The building systems; electrical, mechanical, interior finishes etc. vary in useful life based on quality of the products and materials. Generally speaking these systems will last an average of 20-30 years. Historically the Army has often performed a major renovation or changed the use of the facility once in the first 25 years.”

REV 6.14 31 JANUARY 2011

1. Paragraphs 5.5.1 and 5.5.2, WIZARD programmed to fill in the appropriate LEED version for submission by proposers, as selected elsewhere in the RFP. Currently reads "Version 2.2".

REV 6.13 30 NOVEMBER 2010

1. Paragraph 5.3.3.2, added: “**Desirable features, Government identified preferences, and Offeror identified betterments that are evaluated as true betterments and that are acceptable to the Government are all considered “betterments”, if they are included within the contract cost limitation. The Government will identify those Offeror identified betterments that are not desired or are otherwise objectionable or unacceptable, if discussions are conducted with that Offeror.”**

REV 6.12 31 OCTOBER 2010

1. Para. 5.3.3.2, changed the word “lowest” (Type of Construction) to “most economical”.

REV 6.11 31 AUGUST 2010

1. Paragraph 6.1.1.1, Proposed Contract Duration. Added a Note to Specifier: “Be sure to include a CLIN in the CLIN Schedule for Proposed Contract Duration (Not to Exceed the maximum performance period allowed (normally 540 days per MT)).”

2. Paragraph 8.2.2.1 price evaluation criteria, added Wizard coding to only include the sentence “Both parties shall presume that field overhead costs through the proposed contract duration are inclusive in the offered price for the contract” when the PDT allows proposers to bid the contract duration, selecting the radio button when "Required contract duration is based upon the contractor's accepted proposal in accordance with the MILCON Transformation principle of allowing proposers to bid the contract duration. No time extension or extended overhead will be due the Contractor for any delays to any scheduled early completion per section 01 32 01.00 when the proposers bid the contract duration.”

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

3. INDEX: Inserted new paragraph 7.0 “FACTOR 3 – PHASE I PROPOSAL ROLL-UP RATING”. Deleted paragraph 8.3 ,“PHASE 1 PROPOSAL”

4. Paragraph 4.0, after Factor 2, PERFORMANCE CAPABILITY, re-designated Price as Factor 4 (revising relative importance from 3rd most important Factor to 4th most important Factor) and inserted new Factor 3 “PHASE 1 PROPOSAL ROLL-UP RATING”. This factor is the 2nd most important factor, equal in importance to Factor 2. This revision reverses an earlier revision in REV 6.0, December 2007 that removed the Phase 1 rating as a Factor. Design is the most important factor, as it is permanent. Phase 1 and other performance capability criteria are next most important, followed by price. Price must be reasonable and within the CCL.

5. Inserted new Paragraph 7.0, “FACTOR 3 – PHASE I PROPOSAL ROLL-UP RATING” and 7.1:

   “7.1 The Phase 1 evaluations and overall rating will be carried forward into the Phase 2 evaluation. There is no separate submission required or allowed for Phase 2, with one limited exception. If a key person is no longer available for the project, explain why the substitution is necessary and provide a substitute with a new resume. Add any key personnel change information from Phase 1 in Volume 2, after all other information in that Volume in a new Tab. The Government will then re-evaluate that portion of the Offeror’s Phase 1 proposal and adjust the Phase I overall evaluation, if necessary. The Government will incorporate the overall, final Phase 1 rating with the individual factor ratings, underlying narratives, etc. when comparing the Phase 2 proposals to determine the proposal which provides the best value to the Government.”

6. Renumbered subsequent paragraphs, accordingly.

7. Deleted old paragraph 8.3 “PHASE 1 PROPOSAL”

REV 6.10 31 JULY 2010

1. Para. 5.2.1.1 (c). **The Government is NOT evaluating the structural framing system or solution.**

REV 6.9 31 MAY 2010

1. Para. 5.3.3.1, added the word “extended” in front of “warranties”.

2. Para. 5.1, added statement that use of BIM for proposal preparation and evaluation is NOT required and clarified that Govt is not going to do in depth design analysis of the proposal, that purpose of proposal is to focus on quality level, not detailed design. If the evaluators have actual knowledge or strong suspicions of a deficiency, the Gov’t will inform the proposer in the event that discussions with proposer are conducted. In the event of conflict between the proposal and the requirements, see the order of precedence SCR 1.2 will provide the order of precedence. The final design must comply with the RFP requirements except that accepted betterments become the new contract minimum requirements.

3. Para. 5.2.1.1, revised to require only one building section. The Government will use this information to evaluate functional and aesthetic considerations ,such as floor to ceiling heights and may use it to help evaluate exterior aesthetics and appearance. The Government may also use this information in conjunction with the submission information under the subfactor: QUALITY OF BUILDING SYSTEMS AND MATERIALS, below, to evaluate quality of wall finishes as well as looking at how the proposer has considered air barrier . **The Government is NOT evaluating the structural system or solution.** Schematic floor plans are not necessary if the Government provides the floor plans in the solicitation and the proposer proposes to use them, without change. In that event, the proposer must clearly acknowledge that it will provide the floor plan without change. If the proposer intends to change any Government provided floor plan, it must clearly identify any and all proposed changes to the floor plans, either on a floor plan or in a narrative.

4. Para. 5.3.2.3, - editorial changes plus changing wording to allow equipment “model series” or “model number”, if known.

5. Added similar discussion: “Acceptance of the proposal is not a guaranty that the proposed products meet the contractual requirements or that they are the appropriate size or application for the design which will be developed after award. The intent during the proposal submission and review process is not to require detailed design effort or to perform a detailed design engineering review but to focus on the proposed quality levels of materials and systems If the Government evaluators have actual knowledge or strong suspicion that a proposed product or solution is inappropriately sized, being used in the wrong application or otherwise wont meet the contract requirements, the Government will inform the proposer in the event that discussions are conducted with the firm. But the Government is not asking for design analyses in the proposal and is not obligated to perform an engineering design review at this stage. After, award, In the event of conflict between the contractor’s accepted proposal and the requirements in the final, amended RFP, the order of precedence is indicated in Special Contract Requirement 1.2, DESIGN/BUILD CONTRACT – ORDER OF PRECEDENCE.”

6. 5.3.2.2, editorial changes.

   Para. 5.3.3.2, (c) eliminated mechanical preferences as these are essential necessary to meet the performance requirements.

   Para. 5.3.3.2 (f), added: “Acceptance of the successful proposal does not constitute acceptance of a design that does not conform to ATFP requirements. Final designs must comply with the ATFP requirements.”

Para. 5.3.3.2 (g), added " …low impact development considerations that exceed the minimum contract requirements, utility…" to specific examples of desirable sitework features

7. Para. 5.4.1.1, combined schematic and Conceptual Site Plans into one combined drawing or drawings, Clarified that design narrative includes the preface, offeror can include sketches within the narrative and changed maximum length from 5 to 10 pages.

8. Para. 5.4.1.2 , Clarified that design narrative includes the preface, offeror can include sketches within the narrative and changed maximum length from 5 to 10 pages

9. Para. 5.4.1.2 (a), eliminated Positive drtainage from list.

10. Para. 5.4.1.2 (b), added site lighting considerations.

11. Para. 5.4.2.1, added sight lighting consideration in 2 places under Pedestrian and Vehicle Circulation and Storage.

12. Para. 5.4.2.1, under ATFP considerations, editorial revisions and added "The final design must comply with the ATFP requirements"

REV 6.8 30 APRIL 2010

1. Minor grammatic revisions to Paragraph 6.1.2.1

2. Added "In addition to the proposed contract duration" to the beginning of Paragraph 6.1.2.2

REV 6.7 30 SEPTEMBER 2009

1. Paragraph 4.0, PHASE 2 PROPOSAL CONTENTS AND RELATED EVALUATION FACTORS, SUBFACTORS AND ELEMENTS AND SUBFACTORS, under Factor 2, relative importance comparison description, changed incorrect comparison with Factor "2" to Factor "1":

   "2nd Most Important Factor (slightly less important than Factor 1)"

REV 6.6 31 JULY 2009

1. Numerous paragraphs, revised the word "satisfactory" to "acceptable"

REV 6.5 31 MAY 2009

1. Paragraph 5.3.2.2.(i), deleted reference to Life Cycle in Design Program.

REV 6.4 30 NOVEMBER 2008

1. Added paragraph 5.3.2.2.(i), proposal submission requirements for solar hot water heating, to meet EISA 2007 requirements.

2. Paragraph 5.3.3.2, Bold highlighted the general evaluation criteria which states that government identified preferences and Contractor identified betterments will only receive additional credit if they are provided within the contract cost limitation.

3. Added paragraph 5.3.3.2(i), proposal evaluation criteria for solar hot water heating, to meet EISA 2007 requirements.

REV 6.3 30 SEPTEMBER 2008

1. Paragraph 5.2.2.2, Building Aesthetics, under (a), Exterior Considerations, added the following to stress that the design must meet the CCL and within that limitation, the Government will evaluate how well the proposed deign complies with the architectural theme expressed in the RFP:

   "To the extent possible within the government identified contract cost limitation (CCL), the proposal must comply with the look and feel of the Installation architectural theme identified in the Request for Proposals. The first priority in order of importance is how well the proposal provides comparable building mass, size, height, and configuration in comparison with the architectural theme expressed in the Solicitation. The second priority in order of importance is how well the proposal provides compatible exterior skin appearance based upon façade, architectural character (period or style), exterior detailing, matching the architectural theme expressed in the Solicitation.

   Proposals shall be evaluated on mass, size, height, and configuration in comparison with the architectural theme expressed in the Solicitation, design of facades, roof lines, delineation of entrances, proportions of fenestration in relation to elevations, shade and shadow effects, materials, textures, architectural character (period or style), exterior color schemes.

   How compatible is the proposed design with the installation architectural theme expressed in the RFP? If not an exact "copy" of the theme, how well does it harmonize or blend with the expressed theme?

   How well does the proposal provide comparable building mass, size, height, and configuration in comparison with the architectural theme expressed in the Solicitation?

   How well does the proposal provide compatible exterior skin appearance based upon façade, architectural character (period or style), exterior detailing, matching the architectural theme expressed in the Solicitation?…"

   Paragraph 5.3.3.1, Evaluation Criteria, General, clarified last sentence: "Residential or similar grade finishes and materials are not acceptable for inclusion in these buildings, unless otherwise specifically stated as allowed in Section 01 10 00"

REV 6.2 30 APRIL 2008

1. Paragraphs 5.5.1 and 5.5.2, updated reference to version 2.2 of LEED NC.

2. Paragraph 7.5.1.1, deleted "(see Appendix A of this solicitation for the full FAR clause)". Clauses are included in section 00 73 00.

REV 6.1 31 JANUARY 2008

1. Corrected Paragraph 6.2.1 for submission of key subcontractor experience, when multiple facility types are involved. Fixed WIZARD Tag to delete Attachment 11 when Attachment 10 is not used and adjusted Index, accordingly.

2. Paragraph 5.1, added sentence to clarify that "…the Government will not evaluate any material that exceeds the page limits, where indicated below."

3. Edited paragraphs 5.3.3.2 (c) and (e). In paragraph (c) mechanical components and systems, eliminated certain items identified as "preferable", which will generally always be provided anyway, in order to meet energy reduction performance requirements (heat recovery systems) and (e) electrical components and systems, deleted some items listed

as “preferences”, which are now required (spare capacity, high efficiency lighting) or are considered unnecessary (additional spare capacity, additional telephone, data and cable TV outlets).

4. Eliminated remaining references to UEPH, when a non-UEPH facility type is selected in the Wizard.

REV 6.0 15 DECEMBER 2007

1. Overall update and revision to simplify.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 5.2 15 NOVEMBER 2007

1. Revised paragraph 5.2.1.1 (b) to clarify that the purpose of the perspective rendering is to aide the evaluation team in evaluating the exterior aesthetics of the building(s) under the buildings aesthetics subfactor with enough detail to aid in the evaluation of the exterior building aesthetics, as described in paragraph 5.2.2.2 (a). The rendering can be as elaborate or simple as the offeror wants but it should understand that too simple an effort may not provide enough information to help evaluate the attractiveness of the building or the design of facades, roof lines, delineation of entrances, proportions of fenestration in relation to elevations, shade and shadow effects, materials, textures and exterior color schemes.

REV 5.1 15 OCTOBER 2007

1. Made editorial changes to clarify that the submission requirements and evaluation criteria for furniture systems and components are not “not used” for projects other than the Enlisted Personnel Dining Facility. The titles of the paragraphs that are “not used” will be visible. The submission requirements for "furniture systems" are in paragraphs 5.3.1.2. (b) and 5.3.1.3 (b). Paragraph 5.3.2.2(c) contains the corresponding evaluation criteria for furniture systems.

REV 5.0 15 AUGUST 2007

1. Revised all references from old numbering system to Master Format 2004

REV 4.4 15 JULY 2007

1. Paragraph 9.6.2 (c), revised from 70 percent to 70 points.

REV 4.3 15 MAY 2007

1. Paragraph 7.1.1.2, removed the term “preliminary” from the Summary schedule proposal requirements to eliminate any possible confusion between this schedule and the preliminary schedule required after award by Section 01320, Project Schedule.

2. Added new Paragraph 9.7 INTERIM INTERVIEWS, as an optional best practice, subject to the Contracting Officer’s approval. This is a formal, structured, one-on-one interview process during phase 2 prior to proposal submission. The purpose is to allow the Offeror to present its preliminary ideas to the Government to see if the concepts appear to meet the RFP intent. This “mid-course correction” can help eliminate wasted effort and mistaken approaches and help control proposal preparation costs. This approach has been tried as a pilot approach with success on several NWD District MT projects (CENWO and CENWS)

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 4.2 15 APRIL 2007

1. Paragraph 8.6, specifier may choose the option of all large business offerors submitting a subcontracting plan or only the otherwise apparently successful offeror.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 4.1 15 MARCH 2007

1. Corrected the title of Factor 4 “Utilization of Small Business Concerns”, in Paragraph 4.0, to be consistent with other references to it.

2. Paragraphs 7.0, 7.1, and 7.2, edited to allow selection and added note so that when there are no subfactors under Factor 3, then the default factor title changes from “Remaining Performance Capability Proposal” to “Proposed Contract Duration and Summary Schedule”, per PARC’s office in February 2007.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

3. Paragraph 9.6, Subcontracting Plan, clarified some language to make it clearer that only the otherwise successful offeror (if it is a Large Business) is required to submit the Subcontracting Plan, not all Large Business offerors.

4. Added note to specifier in Attachment 10 to delete the form, if ID/IQ or Tier 2 BCT facilities don’t include key subcontractor subfactor under Remaining Performance Capability factor.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

5. Attachment 11, clarified that the key subcontractor is the one signing the letter of commitment.

REV 4.0 23 FEBRUARY 2007

1. This is a major revision to Section 00120, which will re-organize Factors and include numerous technical edits.

2. Reduced number of factors from 9 to 5, combining some previous factors.

3. Only the apparent successful offeror, if large business, now has to submit the Small Business Subcontracting Plan. All offerors must now submit information on planned utilization of small business firms, in addition to past performance in meeting subcontracting goals.

4. Added clarification to the Basis of Award to describe the trade-off analysis between proposals. Also added clarification that if there is a lower priced, conforming offer(s), the Contracting Officer/Source Selection Official must determine that the added value of a more expensive proposal (within the cost limitation) would justify award to that offeror.

5. Removed hard tables dues to formatting problems with Standard Procurement System software.

6. Price has been moved from 4th most important factor to fifth most important. Revised the relative importance of other factors.

7. Sustainable design and construction is now a comparatively rated subfactor, no longer a go/no-go. Additional credit is available for incorporating preferred LEED credit points. If the PDT obtains a waiver from mandatory 50% waste diversion, this LEED Credit would become preferred, rather than mandatory.

REV 3.8 21 NOVEMBER 2006

1. Paragraph 4.0, Table of Factors; deleted two elements under Factor 1, Subfactor 2, Building Aesthetics, because these were supposed to have been eliminated in May 2006, but were overlooked.

2. Paragraph 5.2.2.2, Building Aesthetics, revised to state that interior and exterior considerations are not rated separately, but are equal in consideration. This was inadvertently overlooked in the May 2006 revisions.

REV 3.7 19 OCTOBER 2006

1. Paragraph 5.3.2.1, Evaluation Criteria for Factor 2 - Quality of Building Systems And Materials: Added the following sentences to the end of the paragraph to clarify minimum quality requirements. “The minimum acceptable level of quality for finishes and materials for these buildings are those materials suitable for the expected population and usage. Residential or similar grade finishes and materials are not acceptable for inclusion in these buildings.”

REV 3.6 19 SEPTEMBER 2006

1. Renamed Factor 7: PROPOSED CONTRACT DURATION AND SUMMARY SCHEDULE, to reflect a change in the name of the schedule from “Preliminary Schedule” to “Summary Schedule”.

2. Changed the term “Preliminary Schedule” to “Summary Schedule” throughout the document. This was necessary because the term “Preliminary Schedule” refers to the first schedule required to be developed after contract award, per Section 01320. These are separate schedules. The schedule developed for the proposal is to be replaced after award with the working schedule. The schedule furnished with the proposal is used to evaluate the offeror’s understanding of the D-B process, scheduling capability, the various constraints and to help evaluate the reasonableness of the proposed contract duration. The working schedule is developed during design development and detailed construction planning.

3. Paragraph 5.3.2.1 Evaluation Criteria for Factor 2 - Quality of Building Systems And Materials, clarified that the it “is the Army's objective that these buildings will have a 25-year useful design life before a possible reuse/repurpose or renovation requirement, to include normal sustainment, restoration, modernization activities and a 50-year building replacement life.”

REV 3.5 14 SEPTEMBER 2006

1. To clarify the government’s intent that the length of the schedule matches the offeror’s proposed contract duration, the wording of second sentence in Section 00120, paragraph 7.2.2.2 , evaluation criteria: “The length of the schedule ***should*** match the proposed contract duration” was changed to read: “The length of the schedule ***must*** match the proposed contract duration.”

2. To clarify and emphasize that the Government may reject or downgrade a proposed contract duration that is objectionably short, the fourth sentence in paragraph 7.2.2.1 was changed from: "An unreasonably condensed contract duration, which places additional cost or schedule risk on the Government will be considered a weakness" to read: "The Government will consider an unreasonably condensed contract duration, which places additional cost or schedule risk on the Government or which may create a risk of contract or performance failure, as a significant weakness or a deficiency, depending upon the evaluators' judgment."

3. To clarify how the contract duration will be evaluated in paragraph 7.2.2.1 the following sentence was added: "In assessing the reasonableness of the proposed contract duration, the Government may take into account how well the proposed preliminary schedule supports the proposed duration, as well as use other information, such as but not limited to independent judgment concerning logic, constraints and typical construction durations."

REV 3.4 04 AUGUST 2006

1. Per request by Omaha District on their Ft. Carson FY 06 Pilot, clarified that the evaluation of key subcontractors will be with respect to their role on this project. Paragraph 7.1.2.2, first sentence, revised to read: “The Government will evaluate the specialized experience and past performance of the Key Subcontractors for electrical and mechanical installation, using the same criteria as in the Phase 1 evaluation, as applicable to their role on this project.”

REV 3.3 21 JULY 2006

1. Per request from Omaha District on their FY 06 Pilot at Ft. Carson, added paragraph 5.3.1.4 for the offeror to provide a list of any betterments in quality of equipment and materials.

2. Corrected the paragraph numbering for subparagraphs under 5.3.2.

3. Added 5.3.2.3 for the Government to list any preferences, in order of importance, that are within or exceed the performance requirements that are in Section 01010, not to exceed 5 preferences.

4. Sustainability Requirements. To comply with July 2006 ACSIM Implementation Guidance for SDD SPiRiT/LEED, added proposal submission and evaluation requirements for the LEED-NC Registered Project Checklist:

   (a) Paragraph 5.5.1, added: “The Offeror shall submit LEED-NC Registered Project Checklist demonstrating how it will achieve the Silver LEED rating.”

   (b) Paragraph 5.6, added: “All requirements identified as mandatory in Section 01010 or elsewhere in the Solicitation must be included and the proposal must meet the requirements of the LEED-NC requirements for a Silver rating."

REV 3.2 14 JUNE 2006

1. Baseline Document

00 22 20(ID/IQ) PHASE 2 DESIGN-BUILD SELECTION PROCEDURES AND BASIS OF AWARD

REV 2.17 31 MAY 2011

1. Paragraph 5.3.3.1: Clarified Army's objectives: "It is the Army's objective that these buildings will have a 50 year useful life. The design and construction should provide an appropriate level of quality to ensure the continued use of the facility over that time period with the application of reasonable preventive maintenance and repairs that would be industry-acceptable to a major civilian sector project OWNER. The facility design should consider that the Army may repurpose the use of the facility over the 50 year life. The Army's intent is to install products and materials of good quality that meet industry standard average life that corresponds with the period of performance expected before a major renovation or repurpose. The design should be flexible and adaptable to possible future uses different than the current to the extent practical while still meeting the operational and functional requirements defined within. Flexibility is achieved through design of more flexible structural load-bearing wall and column system arrangements. The site infrastructure will have at least a 50-year life expectancy with industry-accepted maintenance and repair cycles. Develop the project site for efficiency and to convey a sense of unity or connectivity with the adjacent buildings and with the Installation as a whole. Building useful life is defined by the length of service of the structural systems; concrete, masonry, steel, and wood in any combination. These structural systems last a lifetime when properly constructed and maintained. The building systems; electrical, mechanical, interior finishes etc. vary in useful life based on quality of the products and materials. Generally speaking these systems will last an average of 20-30 years. Historically the Army has often performed a major renovation or changed the use of the facility once in the first 25 years."

REV 2.16 31 JANUARY 2011

1. Paragraphs 5.5.1 and 5.5.2, WIZARD programmed to fill in the appropriate LEED version for submission by proposers, as selected elsewhere in the RFP. Currently reads "Version 2.2".

REV 2.15 30 NOVEMBER 2010

1. Paragraph 5.3.3.2, added: "**Desirable features, Government identified preferences, and Offeror identified betterments that are evaluated as true betterments and that are acceptable to the Government are all considered "betterments", if they are included within the contract cost limitation. The Government will identify those Offeror identified betterments that are not desired or are otherwise objectionable or unacceptable, if discussions are conducted with that Offeror."**

REV 2.14 31 OCTOBER 2010

1. Para. 5.3.3.2, changed the word "lowest" (Type of Construction) to "most economical".

REV 2.13 31 AUGUST 2010

1. Paragraph 6.1.1.1, Proposed Contract Duration. Added a Note to Specifier: "Be sure to include a CLIN in the CLIN Schedule for Proposed Contract Duration (Not to Exceed the maximum performance period allowed (normally 540 days per MT))."

2. Paragraph 8.2.2.1, Price evaluation criteria, added Wizard coding to only include the sentence "Both parties shall presume that field overhead costs through the proposed contract duration are inclusive in the offered price for the contract" when the PDT allows proposers to bid the contract duration, selecting the radio button when "Required contract duration is based upon the contractor's accepted proposal in accordance with the MILCON Transformation principle of allowing proposers to bid the contract duration. No time extension or extended overhead will be due the Contractor for any delays to any

scheduled early completion per section 01 32 01.00 when the proposers bid the contract duration."

3. INDEX: Inserted new paragraph 7.0 "FACTOR 3 – PHASE I PROPOSAL ROLL-UP RATING". This revised subsequent paragraph numbering. Deleted paragraph 8.3, "PHASE 1 PROPOSAL"

4. Paragraph 4.0, after Factor 2, PERFORMANCE CAPABILITY, re-designated Price as Factor 4 (revising relative importance from 3rd most important Factor to 4th most important Factor) and inserted new Factor 3 "PHASE 1 PROPOSAL ROLL-UP RATING". This factor is the 2nd most important factor, equal in importance to Factor 2. This revision reverses an earlier revision in REV 2.0, December 2007 that removed the Phase 1 rating as a Factor. Design is the most important factor, as it is permanent. Phase 1 and other performance capability criteria are next most important, followed by price. Price must be reasonable and within the CCL.

5. Inserted new Paragraph 7.0, "FACTOR 3 – PHASE I PROPOSAL ROLL-UP RATING" and 7.1:

   "7.1 The Phase 1 evaluations and overall rating will be carried forward into the Phase 2 evaluation. There is no separate submission required or allowed for Phase 2, with one limited exception. If a key person is no longer available for the project, explain why the substitution is necessary and provide a substitute with a new resume. Add any key personnel change information from Phase 1 in Volume 2, after all other information in that Volume in a new Tab. The Government will then re-evaluate that portion of the Offeror's Phase 1 proposal and adjust the Phase I overall evaluation, if necessary. The Government will incorporate the overall, final Phase 1 rating with the individual factor ratings, underlying narratives, etc. when comparing the Phase 2 proposals to determine the proposal which provides the best value to the Government."

6. Renumbered subsequent paragraphs, accordingly.

7. Deleted old paragraph 8.3 "PHASE 1 PROPOSAL"

REV 2.12 31 JULY 2010

1. Para. 5.2.1.1 (c). **The Government is NOT evaluating the structural framing system or solution.**

REV 2.11 31 MAY 2010

1. Para. 5.3.3.1, added the word "extended" in front of "warranties".

2. Para. 5.1, added statement that use of BIM for proposal preparation and evaluation is NOT required and clarified that Govt is not going to do in depth design analysis of the proposal, that purpose of proposal is to focus on quality level, not detailed design. If the evaluators have actual knowledge or strong suspicions of a deficiency, the Gov't will inform the proposer in the event that discussions with proposer are conducted. In the event of conflict between the proposal and the requirements, see the order of precedence SCR 1.2 will provide the order of precedence. The final design must comply with the RFP requirements except that accepted betterments become the new contract minimum requirements.

3. Para. 5.2.1.1, revised to require only one building section. The Government will use this information to evaluate functional and aesthetic considerations ,such as floor to ceiling heights and may use it to help evaluate exterior aesthetics and appearance. The

Government may also use this information in conjunction with the submission information under the subfactor: QUALITY OF BUILDING SYSTEMS AND MATERIALS, below, to evaluate quality of wall finishes as well as looking at how the proposer has considered air barrier . **The Government is NOT evaluating the structural system or solution.** Schematic floor plans are not necessary if the Government provides the floor plans in the solicitation and the proposer proposes to use them, without change. In that event, the proposer must clearly acknowledge that it will provide the floor plan without change. If the proposer intends to change any Government provided floor plan, it must clearly identify any and all proposed changes to the floor plans, either on a floor plan or in a narrative.

4. Para. 5.3.2.3, - editorial changes plus changing wording to allow equipment “model series” or “model number”, if known.

5. Added similar discussion: “Acceptance of the proposal is not a guaranty that the proposed products meet the contractual requirements or that they are the appropriate size or application for the design which will be developed after award. The intent during the proposal submission and review process is not to require detailed design effort or to perform a detailed design engineering review but to focus on the proposed quality levels of materials and systems If the Government evaluators have actual knowledge or strong suspicion that a proposed product or solution is inappropriately sized, being used in the wrong application or otherwise wont meet the contract requirements, the Government will inform the proposer in the event that discussions are conducted with the firm. But the Government is not asking for design analyses in the proposal and is not obligated to perform an engineering design review at this stage. After, award, In the event of conflict between the contractor’s accepted proposal and the requirements in the final, amended RFP, the order of precedence is indicated in Special Contract Requirement 1.2, DESIGN/BUILD CONTRACT – ORDER OF PRECEDENCE.”

6. 5.3.2.2, editorial changes.

   Para. 5.3.3.2, (c) eliminated mechanical preferences as these are essential necessary to meet the performance requirements.

   Para. 5.3.3.2 (f), added: “Acceptance of the successful proposal does not constitute acceptance of a design that does not conform to ATFP requirements. Final designs must comply with the ATFP requirements.”

   Para. 5.3.3.2 (g), added ” …low impact development considerations that exceed the minimum contract requirements, utility…” to specific examples of desirable sitework features

7. Para. 5.4.1.1, combined schematic and Conceptual Site Plans into one combined drawing or drawings, Clarified that design narrative includes the preface, offeror can include sketches within the narrative and changed maximum length from 5 to 10 pages.

8. Para. 5.4.1.2 , Clarified that design narrative includes the preface, offeror can include sketches within the narrative and changed maximum length from 5 to 10 pages

9. Para. 5.4.1.2 (a), eliminated Positive drtainage from list.

10. Para. 5.4.1.2 (b), added site lighting considerations.

11. Para. 5.4.2.1, added sight lighting consideration in 2 places under Pedestrian and Vehicle Circulation and Storage.

12. Para. 5.4.2.1, under ATFP considerations, editorial revisions and added “The final design must comply with the ATFP requirements”

REV 2.10 30 APRIL 2010

1. Minor grammatic revisions to Paragraph 6.1.2.1

2. Added “In addition to the proposed contract duration” to the beginning of Paragraph 6.1.2.2

REV 2.9 30 SEPTEMBER 2009

1. Paragraph 4.0, PHASE 2 PROPOSAL CONTENTS AND RELATED EVALUATION FACTORS, SUBFACTORS AND ELEMENTS AND SUBFACTORS, under Factor 2, relative importance comparison description, changed incorrect comparison with Factor “2” to Factor “1”:

   “2nd Most Important Factor (slightly less important than Factor 1)”

REV 2.8 31 JULY 2009

1. Numerous paragraphs, revised the word “satisfactory” to “acceptable to be consistent with the rating definition.

REV 2.7 31 MAY 2009

1. Paragraph 5.3.1.2.(i), Eliminated reference to Life Cycle in Design Program.

REV 2.6 30 NOVEMBER 2008

1. Added paragraph 5.3.2.2.(i), proposal submission requirements for solar hot water heating, to meet EISA 2007 requirements.

2. Paragraph 5.3.3.2, Bold highlighted the general evaluation criteria which states that government identified preferences and Contractor identified betterments will only receive additional credit if they are provided within the contract cost limitation.

3. Added paragraph 5.3.3.2(i), proposal evaluation criteria for solar hot water heating, to meet EISA 2007 requirements.

REV 2.5 31 OCTOBER 2008

1. Paragraph 5.3.1, added “**General**”.

REV 2.4 30 SEPTEMBER 2008

1. Paragraph 5.2.2.2, Building Aesthetics, under (a), Exterior Considerations, added the following to stress that the design must meet the CCL and within that limitation, the Government will evaluate how well the proposed deign complies with the architectural theme expressed in the RFP:

   “To the extent possible within the government identified contract cost limitation (CCL), the proposal must comply with the look and feel of the Installation architectural theme identified in the Request for Proposals. The first priority in order of importance is how well the proposal provides comparable building mass, size, height, and configuration in comparison with the architectural theme expressed in the Solicitation. The second priority in order of importance is how well the proposal provides compatible exterior skin appearance based upon façade, architectural character (period or style), exterior detailing, matching the architectural theme expressed in the Solicitation.

Proposals shall be evaluated on mass, size, height, and configuration in comparison with the architectural theme expressed in the Solicitation, design of facades, roof lines, delineation of entrances, proportions of fenestration in relation to elevations, shade and shadow effects, materials, textures, architectural character (period or style), exterior color schemes.

How compatible is the proposed design with the installation architectural theme expressed in the RFP? If not an exact "copy" of the theme, how well does it harmonize or blend with the expressed theme?

How well does the proposal provide comparable building mass, size, height, and configuration in comparison with the architectural theme expressed in the Solicitation?

How well does the proposal provide compatible exterior skin appearance based upon façade, architectural character (period or style), exterior detailing, matching the architectural theme expressed in the Solicitation?…"

2. Paragraph 5.3.3.1, Evaluation Criteria, General, clarified last sentence: "Residential or similar grade finishes and materials are not acceptable for inclusion in these buildings, unless otherwise specifically stated as allowed in Section 01 10 00"

REV 2.3 30 APRIL 2008

1. Paragraphs 5.5.1 and 5.5.2, updated reference to version 2.2 of LEED NC.

2. Paragraph 7.5.1.1, deleted "(see Appendix A of this solicitation for the full FAR clause)". Clauses are included in section 00 73 00.

REV 2.2 28 MARCH 2008

1. Paragraph 2.0 Basis of Award, revised reference to sections where the cost limitation is identified.

   "All evaluation factors, other than price, when combined, are considered significantly more important than the price, however the Contract award shall not exceed the cost limitation described in Section 00 73 10 for this project."

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

2. Slightly revised various descriptions of relative importance of factors and subfactors (no changes in relative importance) and removed the word "slightly, per direction of CESWF Office of Counsel. Corrected one incorrect reference to a factor.

REV 2.1 31 JANUARY 2008

1. Corrected Paragraph 6.2.1 for submission of key subcontractor experience, when multiple facility types are involved. Fixed WIZARD Tag to delete Attachment 11 when Attachment 10 is not used and adjusted Index, accordingly.

2. Paragraph 5.1, added sentence to clarify that "…the Government will not evaluate any material that exceeds the page limits, where indicated below."

3. Edited paragraphs 5.3.2.2, (c) and (e). In paragraph (c) mechanical components and systems, eliminated certain items identified as "preferable", which will generally always be provided anyway, in order to meet energy reduction performance requirements (heat recovery systems) and (e) electrical components and systems, deleted some items listed

as “preferences”, which are now required (spare capacity, high efficiency lighting) or are considered unnecessary (additional spare capacity, additional telephone, data and cable TV outlets).

4. Eliminated remaining references to UEPH, when a non-UEPH facility type is selected in the Wizard.

REV 2.0 15 DECEMBER 2007

1. Overall update and revision to simplify.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 1.2 15 NOVEMBER 2007

1. Revised paragraph 5.2.1.1 (b) to clarify that the purpose of the perspective rendering is to aide the evaluation team in evaluating the exterior aesthetics of the building(s) under the buildings aesthetics subfactor with enough detail to aid in the evaluation of the exterior building aesthetics, as described in paragraph 5.2.2.2 (a). The rendering can be as elaborate or simple as the offeror wants but it should understand that too simple an effort may not provide enough information to help evaluate the attractiveness of the building or the design of facades, roof lines, delineation of entrances, proportions of fenestration in relation to elevations, shade and shadow effects, materials, textures and exterior color schemes.

REV 1.1 15 OCTOBER 2007

1. Made editorial changes to clarify that the submission requirements and evaluation criteria for furniture systems and components are not “not used” for projects other than the Enlisted Personnel Dining Facility. The titles of the paragraphs that are “not used” will be visible. The submission requirements for "furniture systems" are in paragraphs 5.3.1.2. (b) and 5.3.1.3 (b). Paragraph 5.3.2.2(c) contains the corresponding evaluation criteria for furniture systems.

REV 1.0 15 AUGUST 2007

1. Baseline Document

00 22 30 DESIGN-BUILD SELECTION PROCEDURES AND BASIS OF AWARD (TASK ORDER)

REV 2.16 30 SEPTEMBER 2011

1. Revised Index and renamed paragraph 8.5 from “Past Performance Risk Ratings” to “Past Performance Confidence Assessment Rating System.” Revised the rating system.

2. Updated paragraph 6.3.2, Evaluation Criteria for Past Performance to change from “risk assessment” to “confidence assessment”. Added sentence:

   “With respect to relevancy, past performance on projects with more relevance will typically be a stronger predictor of future success and have more influence on the past performance confidence assessment rating than past performance on projects of lesser relevance.”

REV 2.15 31 MAY 2011

1. Paragraph 8.4.3 and subparagraphs, revised rating definitions to comply with DOD Source Selection Guide.

2. Paragraph 8.5.1, slight edit – changed “done” to “assigned”.

3. Paragraph 5.3.3.1: Clarified Army’s objectives: “It is the Army's objective that these buildings will have a 50 year useful life. The design and construction should provide an appropriate level of quality to ensure the continued use of the facility over that time period with the application of reasonable preventive maintenance and repairs that would be industry-acceptable to a major civilian sector project OWNER. The facility design should consider that the Army may repurpose the use of the facility over the 50 year life. The Army's intent is to install products and materials of good quality that meet industry standard average life that corresponds with the period of performance expected before a major renovation or repurpose. The design should be flexible and adaptable to possible future uses different than the current to the extent practical while still meeting the operational and functional requirements defined within. Flexibility is achieved through design of more flexible structural load-bearing wall and column system arrangements. The site infrastructure will have at least a 50-year life expectancy with industry-accepted maintenance and repair cycles. Develop the project site for efficiency and to convey a sense of unity or connectivity with the adjacent buildings and with the Installation as a whole. Building useful life is defined by the length of service of the structural systems; concrete, masonry, steel, and wood in any combination. These structural systems last a lifetime when properly constructed and maintained. The building systems; electrical, mechanical, interior finishes etc. vary in useful life based on quality of the products and materials. Generally speaking these systems will last an average of 20-30 years. Historically the Army has often performed a major renovation or changed the use of the facility once in the first 25 years.”

REV 2.14 31 JANUARY 2011

1. Paragraphs 5.5.1 and 5.5.2, WIZARD programmed to fill in the appropriate LEED version for submission by proposers, as selected elsewhere in the RFP. Currently reads "Version 2.2".

REV 2.13 30 NOVEMBER 2010

1. Paragraph 5.3.3.2, added: “**Desirable features, Government identified preferences, and Proposer identified betterments that are evaluated as true betterments and that are acceptable to the Government are all considered “betterments”, if they are included within the contract cost limitation. The Government will identify those Proposer identified betterments that are not desired or are otherwise objectionable or unacceptable, if discussions are conducted with that Proposer.”**

REV 2.12 31 OCTOBER 2010

1. Para. 5.3.3.2, changed the word “lowest” (Type of Construction) to “most economical”.

2. Para. 5.3.3.2, corrected spelling of “proposer”.

REV 2.11 31 AUGUST 2010

1. Paragraph 6.1.1.1, Proposed Contract Duration. Added a Note to Specifier: “Be sure to include a CLIN in the CLIN Schedule for Proposed Contract Duration (Not to Exceed the maximum performance period allowed (normally 540 days per MT)).”

2. Paragraph 7.2.2.1 Price Evaluation Criteria, added WIZARD coding to only include the sentence “Both parties shall presume that field overhead costs through the proposed contract duration are inclusive in the offered price for the contract” when the PDT allows proposers to bid the contract duration, selecting the radio button when "Required Contract Duration is based upon the Contractor's accepted proposal in accordance with

the MILCON Transformation principle of allowing proposers to bid the contract duration. No time extension or extended overhead will be due the contractor for any delays to any scheduled early completion per Section 01 32 01.00 when the proposers bid the contract duration.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 2.10 31 JULY 2010

1. Para. 5.2.1.1 (c). **The Government is NOT evaluating the structural framing system or solution.**

REV 2.9 31 MAY 2010

1. Para. 5.3.3.1, added the word “extended” in front of “warranties”.

2. Para. 5.1, added statement that use of BIM for proposal preparation and evaluation is NOT required and clarified that Govt is not going to do in depth design analysis of the proposal, that purpose of proposal is to focus on quality level, not detailed design. If the evaluators have actual knowledge or strong suspicions of a deficiency, the Gov’t will inform the proposer in the event that discussions with proposer are conducted. In the event of conflict between the proposal and the requirements, see the order of precedence SCR 1.2 will provide the order of precedence. The final design must comply with the RFP requirements except that accepted betterments become the new contract minimum requirements.

3. Para. 5.2.1.1, revised to require only one building section. The Government will use this information to evaluate functional and aesthetic considerations ,such as floor to ceiling heights and may use it to help evaluate exterior aesthetics and appearance. The Government may also use this information in conjunction with the submission information under the subfactor: QUALITY OF BUILDING SYSTEMS AND MATERIALS, below, to evaluate quality of wall finishes as well as looking at how the proposer has considered air barrier . **The Government is NOT evaluating the structural system or solution.** Schematic floor plans are not necessary if the Government provides the floor plans in the solicitation and the proposer proposes to use them, without change. In that event, the proposer must clearly acknowledge that it will provide the floor plan without change. If the proposer intends to change any Government provided floor plan, it must clearly identify any and all proposed changes to the floor plans, either on a floor plan or in a narrative.

4. Para. 5.3.2.3, - editorial changes plus changing wording to allow equipment “model series” or “model number”, if known.

5. Added similar discussion: “Acceptance of the proposal is not a guaranty that the proposed products meet the contractual requirements or that they are the appropriate size or application for the design which will be developed after award. The intent during the proposal submission and review process is not to require detailed design effort or to perform a detailed design engineering review but to focus on the proposed quality levels of materials and systems If the Government evaluators have actual knowledge or strong suspicion that a proposed product or solution is inappropriately sized, being used in the wrong application or otherwise wont meet the contract requirements, the Government will inform the proposer in the event that discussions are conducted with the firm. But the Government is not asking for design analyses in the proposal and is not obligated to perform an engineering design review at this stage. After, award, In the event of conflict between the contractor’s accepted proposal and the requirements in the final, amended

RFP, the order of precedence is indicated in Special Contract Requirement 1.2, DESIGN/BUILD CONTRACT – ORDER OF PRECEDENCE."

6. 5.3.2.2, editorial changes.

   Para. 5.3.3.2, (c) eliminated mechanical preferences as these are essential necessary to meet the performance requirements.

   Para. 5.3.3.2 (f), added: "Acceptance of the successful proposal does not constitute acceptance of a design that does not conform to ATFP requirements. Final designs must comply with the ATFP requirements."

   Para. 5.3.3.2 (g), added " …low impact development considerations that exceed the minimum contract requirements, utility…" to specific examples of desirable sitework features

7. Para. 5.4.1.1, combined schematic and Conceptual Site Plans into one combined drawing or drawings, Clarified that design narrative includes the preface, offeror can include sketches within the narrative and changed maximum length from 5 to 10 pages.

8. Para. 5.4.1.2 , Clarified that design narrative includes the preface, offeror can include sketches within the narrative and changed maximum length from 5 to 10 pages

9. Para. 5.4.1.2 (a), eliminated Positive drtainage from list.

10. Para. 5.4.1.2 (b), added site lighting considerations.

11. Para. 5.4.2.1, added sight lighting consideration in 2 places under Pedestrian and Vehicle Circulation and Storage.

12. Para. 5.4.2.1, under ATFP considerations, editorial revisions and added "The final design must comply with the ATFP requirements"

REV 2.8 30 APRIL 2010

1. Minor grammatic revisions to Paragraph 6.1.2.1

2. Added "In addition to the proposed contract duration" to the beginning of Paragraph 6.1.2.2

REV 2.7 31 JULY 2009

1. Numerous paragraphs, changed the word "satisfactory" to "acceptable" to be consistent with the rating system in paragraph 8.4.3.

2. Para. 8.4.4, Sentence beginning with "The risk of unsuccessful…", deleted "expected to".

REV 2.6 31 MAY 2009

1. Para 5.3.2.2(i), deleted reference to Life Cycle in Design Program.

REV 2.5 28 FEBRUARY 2009

1. Made some editorial corrections. Para. 3.1, deleted term "Task Order Selection Official". Para. 4, Deleted "AND ELEMENTS AND SUBFACTORS". Para. 4, Vol 1, Subfactor 3 (or 4, depending upon PDT selection) is "Sustainability Requirements". Para. 5.1 deleted extraneous word "the". Paragraph 6 moved "VOLUME 2" from end to beginning of title.

Para. 6.1.2.2, add the word “firm” to a sentence concerning addressing the firm’s strength of understanding the project scope, etc.

REV 2.4 15 JANUARY 2009

1. Changed several references to “Phase 2” in the document to “Task Order”.
2. Made numerous corrections in Table of Contents to coordinate with other paragraphs
3. Corrected several incorrect subfactor numbering.
4. Factor 2 is now always called Performance Capability. If key subs are to be evaluated, that will be subfactor 2 and past performance will be subfactor 3. If not, then past performance is subfactor 2.
5. Paragraph 4 corrected choices for Volume 2, Factor 2 to have either 2 or 3 subfactors.
6. Para. 5.2, correct title of subfactor 1.
7. Para. 5.2.2, corrected reference to three “areas”, not “subfactors”.
8. Para. 5.4, corrected wizard code to delete when government provides the site work.
9. Para. 7.4.1.1, clarified that Sections 00 72 00 and 00 73 00 are in the Base ID/IQ contract.

REV 2.3 31 DECEMBER 2008

1. Paragraphs 5.2.2.1 and 5.2.2.2, re-designated subparagraphs with alpha characters (a), (b), etc. (for consistency).

REV 2.2 30 NOVEMBER 2008

1. Added paragraph 5.3.2.2.(i), proposal submission requirements for solar hot water heating, to meet EISA 2007 requirements.
2. Paragraph 5.3.3.2, Bold highlighted the general evaluation criteria which states that government identified preferences and Contractor identified betterments will only receive additional credit if they are provided within the contract cost limitation.
3. Added paragraph 5.3.3.2(i), proposal evaluation criteria for solar hot water heating, to meet EISA 2007 requirements.

REV 2.1 21 OCTOBER 2008

1. Corrections to update of September 2008.
2. Eliminated requirement for pre-award information and details concerning subcontracting
3. Added paragraph 5.3.1, General, concerning list of preferences, inadvertently omitted in previous update.
4. Eliminated references to Section 00 21 00.

REV 2.0 31 SEPTEMBER 2008

1. General Overall Revision, update and streamlining for task orders.

REV 1.2 18 APRIL 2008

1. Revised for new IDIQ/Task Order process

REV 1.1 18 JANUARY 2008

1. Renumber document.

REV 1.0 15 AUGUST 2007

1. Baseline Document

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

00 45 00 REPRESENTATIONS AND CERTIFICATIONS

REV 2.1 01 SEPTEMBER 2007

1. Solicitation provision paragraph has been revised with updated clause information from the MT Team.

REV 2.0 15 AUGUST 2007

1. Revised all references from old numbering system to Master Format 2004

REV 1.0 15 MAY 2006

1. Baseline Document

00 72 00 CONTRACT CLAUSES – TABLE OF CONTENTS

REV 2.3 31 AUGUST 2010

1. Changed the term “provision” to “clause” in several places. These are contract clauses.

2. Added 52.222.54 Employment Eligibility Verification.

REV 2.2 08 NOVEMBER 2008

1. Corrected Clause 252.227-7022, GOVERNMENT RIGHTS UNLIMITED to clarify that it is to be used in Design-Build Contracts.

2. Added clause 252.227-7023, DRAWINGS AND OTHER DATA TO BECOME PROPERTY OF THE GOVERNMENT, which was mistakenly omitted. Use, in lieu of 252.227-7022, for Design-Build when the Government wants to retain exclusive rights to a unique project design (monuments and the like).

REV 2.1 01 SEPTEMBER 2007

1. Solicitation provision paragraph has been revised with updated clause information from the MT Team.

REV 2.0 15 AUGUST 2007

1. Revised all references from old numbering system to Master Format 2004

REV 1.0 15 MAY 2006

1. Baseline Document

00 73 00 SPECIAL CONTRACT REQUIREMENTS

REV 2.9 30 APR 2012

1. Clarified SCR 1.3 Betterments throughout that Betterments are always features “in the accepted proposal”. Betterments meet and exceed the minimum RFP requirements. Clarified and restated “Government identified betterments”, as betterments that the Government identifies in the accepted proposal, which may or may not be formally listed and included by addendum at contract award. It also includes any other betterments in the accepted Proposal that might be identified after award. There has been some confusion within USACE about what “Government identified Betterments” are. This SCR was originally adapted from an optional Proposed Betterments SCR. The optional SCR was intended for use only when the Government attaches a list of betterments to the contraqct award that it identified in the proposal during proposal evaluation. This SCR needed more clarification to distinguish it from the original, optional SCR.

REV 2.8 31 JULY 2011

1. Added SCR 1.20, “CONTRACTOR SUPPLY AND USE OF ELECTRONIC SOFTWARE FOR PROCESSING DAVIS-BACON ACT CERTIFIED LABOR PAYROLLS (JULY 2011)”

2. SCR 1.16, updated where to find to EM 385-1-1 and removed obsolete URL, changed date of SCR to JUL 2011.

3. SCR 1.18, SSHO Qualifications, corrected paragraph numbering and changed date of SCR to JUL 2011

REV 2.7 31 JANUARY 2011

1. Corrected SCR 1.13 reference from Clause “252.236-21” to “52.236-31”. That is a FAR Clause, not a DFARS Clause.

REV 2.6 30 APRIL 2010

1. Revised 1.18 TASK ORDER SITE SAFETY AND HEALTH OFFICER REQUIREMENTS AND QUALIFICATIONS to add that the SSHO shall report to the senior project official or to a senior corporate official; added back the option to specify allowing or not allowing the SSHO to have collateral duties.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 2.5 31 MARCH 2010

1. Revised 1.18 TASK ORDER SITE SAFETY AND HEALTH OFFICER REQUIREMENTS AND QUALIFICATIONS by deleting special qualifications other than those in the EM 385-1-1; left the option for hazardous waste projects.

2. Paragraph 1.4, (f), revised to state:

   “By Memorandum dated March 12, 2010, the Director of Defense Procurement and Acquisition Policy directed cessation of the use of the price evaluation adjustment for SDBs in DoD procurements (FAR Clause 52.219-23), Said FAR Clause is not included in or made a part of this RFP. FAR Clause 52.219-4, relating to a 10% price evaluation preference for HUB ZONE small business concerns, is included in and made a part of this RFP. PLEASE NOTE HOWEVER, that paragraph (b) (3) of the FAR Clause 52.219-4, is inapplicable also due to the referenced cessation of FAR Clause 52.219-23.”

REV 2.4 31 JULY 2009

1. Updated SCR 1.15, paragraph (f). The Director of Defense Procurement and Acquisition Policy has continued the suspension of the use of the price evaluation adjustment for SDBs in DoD procurements (FAR Clause 52.219-23), as required by 10 U.S.C. 2323(e)(3), because DoD exceeded its 5 percent goal for contract awards to SDBs in fiscal year 2008. The suspension will be in effect for 1 year and will be reevaluated based on the level of DoD contract awards to SDBs achieved in fiscal year 2009. This suspension applies to all solicitations issued during the period from March 13, 2009, to March 12, 2010.

REV 2.3 31 JULY 2008

1. Corrected date update of SCR 1.4 to FEB 08.

REV 2.2 28 MARCH 2008

1. SCR 1.19 CONTRACTOR PERFORMANCE EVALUATION, revised webpage for CPARS to http://www.cpars.csd.disa.mil/.

REV 2.1 28 FEBRUARY 2008

1. Updated SCR 1.15, paragraph (f). The Director of Defense Procurement and Acquisition Policy has continued the suspension of the use of the price evaluation adjustment for SDBs in DoD procurements (FAR Clause 52.219-23), as required by 10 U.S.C. 2323(e)(3), because DoD exceeded its 5 percent goal for contract awards to SDBs in fiscal year 2007. The suspension will be in effect for 1 year and will be reevaluated based on the level of DoD contract awards to SDBs achieved in fiscal year 2008. This suspension applies to all solicitations issued during the period from March 10, 2008, to March 9, 2009.

REV 2.0 15 AUGUST 2007

1. Revised all references from old numbering system to Master Format 2004

REV 1.5 15 JULY 2007

1. Added 1.19 CONTRACTOR PERFORMANCE EVALUATION. Also added to index.

2. Removed SCR 1.19 BONDING REQUIREMENTS for ID/IQ contracts only as a new 00800 has been developed specifically for ID/IQ contracts. Also removed index.

REV 1.4 15 MAY 2007

1. In SCR 1.3 PROPOSED BETTERMENTS, corrected the designation of paragraphs due to auto formatting error.

REV 1.3 15 APRIL 2007

1. Added SCR 1.19 BONDING REQUIREMENTS for ID/IQ contracts only. Also added to index.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 1.2 15 FEBRUARY 2007

1. Updated SCR 1.4, SELF-PERFORMANCE OF WORK BY THE PRIME CONTRACTOR, because the Director of Defense Procurement and Acquisition Policy has extended the suspension of the use of the price evaluation adjustment for SDBs in DoD procurements

(FAR Clause 52.219-23) until March 9, 2008. This was published in the Federal register on 15 February 2007, Volume 72, Number 31, page 7424.

REV 1.1 22 DECEMBER 2006

1. Added SCR 1.18, SITE SAFETY AND HEALTH OFFICER REQUIREMENTS AND QUALIFICATIONS (DEC 06)

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 1.0 15 MAY 2006

1. Baseline Document

00 73 00(ID/IQ) SPECIAL CONTRACT REQUIREMENTS

REV 1.11 30 APR 2012

2. Clarified SCR 1.3 Betterments throughout that Betterments are always features “in the accepted proposal”. Betterments meet and exceed the minimum RFP requirements. Clarified and restated “Government identified betterments”, as betterments that the Government identifies in the accepted proposal, which may or may not be formally listed and included by addendum at contract award. It also includes any other betterments in the accepted Proposal that might be identified after award. There has been some confusion within USACE about what “Government identified Betterments” are. This SCR was originally adapted from an optional Proposed Betterments SCR. The optional SCR was intended for use only when the Government attaches a list of betterments to the contraqct award that it identified in the proposal during proposal evaluation. This SCR needed more clarification to distinguish it from the original, optional SCR.

REV 1.10 31 JULY 2011

1. Added SCR 1.26, CONTRACTOR SUPPLY AND USE OF ELECTRONIC SOFTWARE FOR PROCESSING DAVIS-BACON ACT CERTIFIED LABOR PAYROLLS (JULY 2011).

2. SCR 1.16 Safety Manual, deleted URL and provided description on how to find the Manual, updated the date of the SCR to JUL 2011.

REV 1.9 31 JANUARY 2011

1. Corrected SCR 1.13 reference from Clause “252.236-21” to “52.236-31”. That is a FAR Clause, not a DFARS Clause.

REV 1.8 30 APRIL 2010

1. Revised 1.18 TASK ORDER SITE SAFETY AND HEALTH OFFICER REQUIREMENTS AND QUALIFICATIONS to add that the SSHO shall report to the senior project official or to a senior corporate official; added back the option to specify allowing or not allowing the SSHO to have collateral duties.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 1.7 31 MARCH 2010

1. Revised 1.18 TASK ORDER SITE SAFETY AND HEALTH OFFICER REQUIREMENTS AND QUALIFICATIONS by deleting special qualifications other than those in the EM 385-1-1; left the option for hazardous waste projects.

2. Paragraph 1.4 (f), revised same as C-Type Section 00 73 00 per Memorandum dated 12 MARCH 2010, the Director of Defense Procurement and Acquisition Policy directed cessation of the use of the price evaluation adjustment for SDBs in DoD procurements (FAR Clause 52.219-23).

REV 1.6 31 JULY 2009

1. Updated SCR 1.15, paragraph (f). The Director of Defense Procurement and Acquisition Policy has continued the suspension of the use of the price evaluation adjustment for SDBs in DoD procurements (FAR Clause 52.219-23), as required by 10 U.S.C. 2323(e)(3), because DoD exceeded its 5 percent goal for contract awards to SDBs in fiscal year 2008. The suspension will be in effect for 1 year and will be reevaluated based on the level of DoD contract awards to SDBs achieved in fiscal year 2009. This suspension applies to all solicitations issued during the period from March 13, 2009, to March 12, 2010.

REV 1.5 30 SEPTEMBER 2008

1. Technical correction: Corrected the date of SCR 1.18 in the Index from DEC 2006 to APR 2008.

REV 1.4 31 JULY 2008

1. Corrected date update of SCR 1.4 to FEB 08.

REV 1.3 18 APRIL 2008

1. Added SCR 1.18 SITE SAFETY AND HEALTH OFFICER REQUIREMENTS AND QUALIFICATIONS (DEC 06), and renumbered all subsequent SCR's.

REV 1.2 28 MARCH 2008

1. SCR 1.19 CONTRACTOR PERFORMANCE EVALUATION, revised webpage for CPARS to http://www.cpars.csd.disa.mil/.

2. SCR 1.3 BETTERMENTS, corrected paragraphs (a) and (b) designations.

3. SCR 1.16 US ARMY CORPS OF ENGINEERS SAFETY AND HEALTH REQUIREMENTS MANUAL, added new second sentence regarding effective date of the EM and any interim revisions for task orders:

   "In accordance with Contract Clause 52.236-13, ***ACCIDENT PREVENTION,*** the Contractor shall comply with the latest version of Engineer Manual 385-1-1, including any interim revisions, in effect at the time of the solicitation. For task orders, the effective date of the Engineer Manual and any interim revisions will be the date of the request for task order proposal."

REV 1.1 28 FEBRUARY 2008

1. Updated SCR 1.15, paragraph (f). The Director of Defense Procurement and Acquisition Policy has continued the suspension of the use of the price evaluation adjustment for SDBs in DoD procurements (FAR Clause 52.219-23), as required by 10 U.S.C. 2323(e)(3), because DoD exceeded its 5 percent goal for contract awards to SDBs in fiscal year 2007. The suspension will be in effect for 1 year and will be reevaluated based on the level of DoD contract awards to SDBs achieved in fiscal year 2008. This suspension applies to all solicitations issued during the period from March 10, 2008, to March 9, 2009.

REV 1.0 15 AUGUST 2007

1. Baseline Document

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

00 73 10 SUPPLEMENTAL CONTRACT REQUIREMENTS (TASK ORDER)

REV 1.4 31 JULY 2011

1. Added SCR 1.26, CONTRACTOR SUPPLY AND USE OF ELECTRONIC SOFTWARE FOR PROCESSING DAVIS-BACON ACT CERTIFIED LABOR PAYROLLS (JULY 2011).

REV 1.3 30 APRIL 2010

1. Revised 1.9 TASK ORDER SITE SAFETY AND HEALTH OFFICER REQUIREMENTS AND QUALIFICATIONS to add that the SSHO shall report to the senior project official or to a senior corporate official; added back the option to specify allowing or not allowing the SSHO to have collateral duties.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 1.2 31 MARCH 2010

1. Revised 1.9 TASK ORDER SITE SAFETY AND HEALTH OFFICER REQUIREMENTS AND QUALIFICATIONS by deleting special qualifications other than those in the EM 385-1-1; left the option for hazardous waste projects.

REV 1.1 15 JANUARY 2008

1. Revised for new IDIQ/Task Order process

REV 1.0 15 AUGUST 2007

1. Baseline Document

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

00 73 46 WAGE DETERMINATION SCHEDULE (TASK ORDER)

REV 1.0 15 AUGUST 2007

1. Baseline Document

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

01 10 00 STATEMENT OF WORK

PARAGRAPH 1 – PROJECT OBJECTIVES

REV 3.4 31 October 2012

1. Revised table of contents for BDE, BN, CIDC, C2F and ORTC to correspond with new paragraph 3 formatting.

2. Added Battlefield Weather Support Facility, Training Support Center, Urban Assault Course, and Basic 10M-25M Firing Range Facility Types

REV 3.3 *31 August 2012*

1. Revised table of contents for COF and TEMF to correspond with new paragraph 3 formatting.

REV 3.2 *30 June 2012*

1. Revised table of contents for ACSC, ARF, BTOSUT, CDC, CFSS, CPQC, FS, LFSH, MRF, PFF and YC to correspond with new paragraph 3 formatting.

2. Added Chaplain Family Life Center and Religious Education Facility

3. Fixed table of contents for Paragraph 5 section.

REV 3.1 *30 April 2012*

1. Revised table of contents for AIT to correspond with new paragraph 3 formatting.

REV 3.0 *31 March 2012*

1. Revised table of contects for EPDF, UEPH, and WT to correspond with new paragraph 3 formatting.

REV 2.23 *30 September 2011*

1. The name Consolidated, Fire, Safety, and Security has been changed to Department of Emergency Services in entire document.

REV 2.22 *31 May2011*

1. Para.1.02, clarified the Army's objectives.

REV 2.21 *31 March 2011*

1. Added Live Fire Shoothouse (LVSH)

2. Added Automated Record Fire Range (ARF)

3. Automated Combat Pistol/Military Police Firearms Qualification Course (CPQC/MPFQC)

REV 2.20 *31 January 2011*

1. Added MODIFIED RECORD FIRE RANGE (MRF)

REV 2.19 *31 October 2010*

1. Revised number of subparagraphs

REV 2.18 *30 September 2010*

1. Revised naming of ORTC Facilities to match Standard Facility types.

REV 2.17 *30 June 2010*

1. Deleted 4.3 Precedence from Table of Contents

REV 2.16 *31 May 2010*

1. Revised Unmanned Aircraft Facilities to Manned and Unmanned Hangars in Paragraph (NEW VERSION ONLY)

2. Added Attack or Assault Battalion, or Cavalry Squad (AAC) Hangar Facility (NEW VERSION ONLY)

REV 2.15 *30 April 2010*

1. Added Unmanned Aircraft Facilities (NEW VERSION ONLY)

REV 2.14 *01 July 2009*

1. Added Access Control Points (NEW VERSION ONLY)

REV 2.13 *28 February 2009*

1. Table of Contents, revised title of paragraph 6.9 to “Site Electrical and Telecommunications”, and paragraph 6.10 to “Facility Electrical and Telecommunications”

REV 2.12 *31 December 2008*

1. Added paragraph 1.1, which describes the organization of Section 01 10 00, under the 6 paragraph outline.

REV 2.11 *21 September 2008*

1. Added table for describing the comparable facility type for when using a unique facility in the RFP

REV 2.10 *30 May 2008*

1. Retitled Paragraph 5.7 in Table of Contents from ‘ELECTRICAL SYSYEMS’ to ‘ELECTRICAL AND TELECOMMUNICATIONS SYSTEMS’.

REV 2.9 *18 April 2008*

1. Revised to add Physical Fitness Center and Army Fire Station

REV 2.8 *15 March 2008*

1. Revised to add Warriors in Transition Complex.

2. Revised to add Youth Center Facility Type

3. Revised to add Consolidate Fire, Safety, and Security Facility

REV 2.7 *15 January 2008*

1. Revised to add Basic Training and One Station Unit Training Complex.

REV 2.6 *15 December 2007*

1. Corrected spelling errors and added paragraph 4.3 PRECEDENCE to the table of content

2. Added Advanced Individual Training Complex

REV 2.5 *15 November 2007*

1. Revised to add Chapel Facility.

REV 2.4 *19 October 2007*

1. Revised to add Command and Control Facility.

2. Deleted references to Public Law 102-486, Executive Order 12902, and Federal Regulations 10 CFR 435 to design and construct facilities in an energy-conserving manner while considering life cycle cost over the life of the facilities. Executive Order 13423 supersedes EO 12902 and by reference to the **GUIDING PRINCIPLES FOR FEDERAL LEADERSHIP IN HIGH PERFORMANCE AND SUSTAINABLE BUILDINGS,** requires new facilities to reduce energy consumption. Life cycle cost considerations do not affect this requirement.

REV 2.3 *09 October 2007*

1. Revised to add General Instruction Building and Criminal Investigation Division Command.

REV 2.2 *10 September 2007*

1. Revised to add Army Community Service Center.

REV 2.1 *01 September 2007*

1. Revised to add Child Development Center Facility Types.

REV 2.0 *15 August 2007*

1. Revised all references from old numbering system to Master Format 2004

REV 1.2 *15 July 2007*

1. Revised index to list all permutations of facility type for Paragraph 2.0 and Paragraph 3.0

REV 1.1 *19 September 2006*

1. Paragraph 1.0, Project Objectives, clarified that it “is the Army's objective that these buildings will have a 25-year useful design life before a possible reuse/repurpose or renovation requirement, to include normal sustainment, restoration, modernization activities and a 50-year building replacement life.”

REV 1.0 *15 May 2006*

1. Baseline Document

PARAGRAPH 2 – SCOPE

REV 3.36 *31 January 2013*

1. Deleted extra large as a facility standard size and revised the Structured Activity Module elements table.

REV 3.35 *31 October 2012*

1. Revised paragraph 2.1 Command and Control Facility.

2. Added Battlefield Weather Support Facility, Training Support Center, Urban Assault Course, and Basic 10M-25M Firing Range

REV 3.34 *30 June 2012*

1. Revised paragraph 2.1 Chapel.

2. Added Chaplain Family Life Center and Religious Education Facility Types.

REV 3.33 *31 March 2012*

1. Revised paragraph 2.1 ORTC

REV 3.32 *31 January 2012*

1. Brigade/Battalion HQs

   a. Revised areas Brigade Headquarters.

SIZE	AREA (GSF) W/ BOC, NOC, SCIF
X-SMALL	20,400
SMALL	34,400
MEDIUM	37,700
LARGE	43,400
X-LARGE	59,200

   b. Revised areas for Battalion Headquarters

SIZE	AREA (GSF) W/O CLASSROOMS	AREA (GSF) W/ CLASSROOMS
SMALL	12,200	16,000
MEDIUM	14,100	18,600
LARGE	15,100	20,400
EXTRA LARGE	17,000	22,600

REV 3.31 *30 September 2011*

1. The name Consolidated, Fire, Safety, and Security has been changed to Department of Emergency Services in entire document.

REV 3.29 *31 July 2011*

1. PFF

a. Revised some default values in the Structured Activity Module

REV 3.28 31 May2011

1. UAS

   a. Added values for High Density – 3 Company option

2. LFSH

   a. Added reference to the Project Definition Matrix

3. ORTC

   a. Para. 2.4.1 – Add 2.4.1 header and furniture requirements for Barracks and Officers Quarters.

   b. Add 2.4.2 header for Brigade and Battalion Headquarters, Dining Facility, Company Headquarters, and Vehicle Maintenance Shop Requirements.

REV 3.27 30 April 2011

1. ORTC

   a. Para. 2.1.2 – Officers changed to senior leaders. Shared bathroom added to description. Number of personnel added to description for two-story barracks. Four-story barracks description added.

   b. Para. 2.1.3 – Officers changed to senior leaders. Each bathroom added to description.

   c. Para. 2.1.4 – Maximum changed to total gross area in descriptions of Standard and Large DFACs.

REV 3.26 31 March 2011

1. Added Live Fire Shoothouse (LVSH)

2. Added Automated Record Fire Range (ARF)

3. Automated Combat Pistol/Military Police Firearms Qualification Course (CPQC/MPFQC)

4. Revised Paragraph 2.1 UAS

REV 3.25 31 January 2011

1. Added MODIFIED RECORD FIRE RANGE (MRF)

REV 3.24 30 November 2010

1. UAS: Table 2.1: Updated the Unit Total Personnel from 125 to 128 based on information provided by Army UAS user rep and AS FDT.

2. UAS: Table 2.1.1: Updated square footages to match Table 3.4.

REV 3.23 *31 October 2010*

1. TEMF: Paragraph 2.1; Removed “maintenance and” from UAV requirements.

2. UAS: Deleted reference to MQ-8B (Fire Scout)

3. UAS: Revised Table 2.1.1 Approximate Net Square Footages.

REV 3.22 *30 September 2010*

1. ORTC: Multiple revisions

REV 3.21 *31 August 2010*

1. AIT

   a. Revised Paragraph 2.1.1 through 2.1.3 to include a variation of the following paragraph:

      The floor plans for the B/COF are provided in Appendix J. These floor plans indicate functional and operational arrangements that meet the user's requirements. The Design/Build (D/B) Contractor is required to follow these mandatory designs. Minor plan alterations (not more than eight (8) inches) are permitted only when necessary to accommodate building system requirements; however, the minimum area requirements identified in Paragraph 3 shall not be reduced in order to accommodate building system requirements. Office locations shown on the floor plan shall not be altered or relocated as they meet the mandatory adjacency requirements.

2. BTOUST

   a. Revised Paragraph 2.1.1 through 2.1.2 to include a variation of the following paragraph:

      The floor plan for the BNHQ is provided in Appendix J. The floor plan indicates functional and operational arrangements that meet the user's requirements. The Design/Build (D/B) Contractor is required to follow these mandatory designs. Minor plan alterations (not more than eight (8) inches) are permitted only when necessary to accommodate building system requirements; however, the minimum area requirements identified in Paragraph 3 shall not be reduced in order to accommodate building system requirements. Office locations shown on the floor plan shall not be altered or relocated as they meet the mandatory adjacency requirements.

3. WT

   a. Revised Paragraph 2.1 to include following paragraph:

      The facility floor plans for the Warriors in Transition (WT) facilities are provided in Appendix J. These floor plans indicate functional and operational arrangements that meet the user's requirements. The Design/Build (D/B) Contractor is required to follow these mandatory designs. Minor plan alterations (not more than eight (8) inches) are permitted only when necessary to accommodate building system requirements; however, the minimum area requirements identified in Paragraph 3 shall not be reduced in order to accommodate building system requirements. Office locations shown on the facility floor plans shall not be altered or relocated as they meet the mandatory adjacency requirements.

4. UAS

   a. Table 2.1 1 UAS Maintenance Hangar (UAS HGR); adjustments made to match Table 3.4 in Paragraph 3

REV 3.20 *31 July 2010*

1. PFF:

   a. Revised Gymnasium and Structured Activity Modules to reflect changes in Attachment B Technical Criteria for U.S. Army PhysicalFitness Facilities document.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 3.19 *30 June 2010*

1. ORTC:

   a. Updated 720 ORTC to a total staff to 64 and a max shift of 35 and updated maximum gross area.

   b. Updated 1428 ORTC to a total staff of 90 and a max shift of 50 and updated maximum gross area.

2. UAS HGR:

   a. Updated Table 2.1.1 to match Tables 3.3 and 3.4 in para 3.

REV 3.18 *31 May 2010*

1. Revised Unmanned Aircraft System Facilities to Manned and Unmanned Hangars (NEW VERSION ONLY)

2. Added Attack or Assualt Battalion, or Cavalry Squad (AAC) Hangar Facility (NEW VERSION ONLY)

3. Revised AIT paragraph 2.1.1

4. Revised BTOSUT Paragraph 2.1.1: Delete the first sentence of the 4th paragraph. (Information is repeated in the 2nd sentence).

5. Minor revisions to Army Fire Stations

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 3.17 *30 April 2010*

1. Revised Paragraph 2.1 Army Fire Stations

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

2. Added Unmanned Aircraft System Facilities

3. Paragraph 2.3 , Added: “Fire extinguishers are GF/GI personal property, while fire extinguisher brackets and cabinets are Contractor furnished and installed CF/CI.”

REV 3.16 *31 March 2010*

1. Paragraph 2.2, Site General, made edits for clarity and grammar for COF, TEMF, HQ, C2F, AIT, BTOSUT, WT.

REV 3.15 *28 February 2010*

1. Chapels: Added text regarding staff capacity and 2 site features (all three sizes).

REV 3.14 *31 December 2009*

1. Revised Paragraph 2.1 ORTC in its entirety to meet MT Language.

2. Revised Paragraph 2.4

REV 3.13 *30 September 2009*

1. WT:

   (a) 2.1 Deleted 2nd paragraph

   (b) 2.1 3rd paragraph - Added WT Barracks Tags to toggle paragraph on only with WT Barracks

   (c) 2.2.1 Edited sentence and deleted “multiple”

REV 3.12 *31 July 2009*

1. Added Access Control Points (NEW VERSION ONLY)

2. PFF - Revised Paragraph 2.1.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

3. EPDF - Revised Paragraph 2.1. to correct the number of seats in the 2600 person dining facility to 1088.

4. WT - 2.3 Government – Furnished Government – Installed Equipment (GFGI) – Updated equipment

REV 3.11 *31 May 2009*

1. CDC (0-5) Revised Paragraph 2.1 and 2.4

2. CDC (6-10) Revised Paragraph 2.4

3. Fire Station to reflect maturation of the standard design during the MT project process.

4. UEPH: Revised Paragraph 2.4 to be NOT USED.

5. BTOSUT:

(a) Barracks/Company Operations Facility (B/COF)

- Par. 2.1.1 Added requirement that floor plans are mandatory and cannot be revised except for minor revisions to accommodate systems requirements.

- Par. 2.4. B/COF Furniture chart is located in par. 3.4.5.7 instead of par. 3.4.5.8.

(b) Battalion/Headquarters (BNHQ):

- Par. 2.1.2 Added requirement that floor plans are mandatory and cannot be revised except for minor revisions to accommodate systems requirements.

- Par. 2.4. BNHQ Furniture chart is located in par. 3.4.5.8 instead of par. 3.4.5.9.

REV 3.10 30 April 2009

1. BN HQ: Added the Extra large Battalion to the scope.

2. BDE HQ: Added the Extra small Brigade to the scope.

3. EDPF: Updated to count square footage in accordance with the 1391 templates.

4. ORTC: The staffing requirements were updated and the two ORTC Dining Facilities were included.

REV 3.9 28 February 2009

1. TEMF: Modified paragraph 2.1 by adding “8000 SF w/445 SY Secure Storage” to Distribution company storage building

2. TEMF: Revised paragraph 2.1 by adding “1800SF” to UAV maintenance and storage building

3. COF: Added the following for Troop Aid Station:

   “Items identified as H (hospital equipment) on Troop Aid Station Furnishings Appendix.”

REV 3.8 31 December 2008

1. Revised last sentence of paragraph 2.1 for Child Development for children 6-10 years to read as follows: “It is intended to be similar to an after school program facility in the private sector community.”

REV 3.7 30 November 2008

1. Revised paragraph 2.1 for Dining facilities as follows was updated to count square footage in accordance with TI in lieu of IBC. The staffing requirements were updated.

REV 3.6 *31 October 2008*

1. Revised paragraph 2.4 for Army Community Service Centers to reflect the furniture design and procurement requirements.

REV 3.5 *15 July 2008*

1. Following was revised for the WT.

   a. Paragraph 2.1 - the word "total" has been replaced with the words "maximum allowable" with regard to the gross area for the Admin Module, Readiness Module, and exterior covered hardstand.

   b. Revised Paragraph 2.1 Scope of UEPH to include 50/50 ratio of 530 GSF Module and 675 GSF Module as well as require floor plans in Appendix J

   c. Revised Paragraph 2.11 to state D/B Contractor's maximum limit for GSF

   d. Revised 2.2. Removed statement about floor plans and moved to 2.1

   e. Revised 2.2.1 Describes possible site plan options to include ADGs

   f. Revised 2.2.2 Added reference to Chapter 6

REV 3.4 *15 June 2008*

1. Paragraph 2.1 - the word "total" has been replaced with the words "maximum allowable" with regard to the gross area for the Admin Module, Readiness Module, and exterior covered hardstand.

2. Added "SF" to end of sentence after blank in paragraph 2.1.

3. Added "[Non-Standard]" to TEMF size sentence in paragraph 2.1.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

4. Added the word "building" to Organizational Storage, Distribution Company Storage, and UAV and Maintenance Storage in paragraph 2.1. Revised "Oil Storage Building" to "POL Storage Building" in paragraph 2.1.

5. Paragraph 2.7 Occupancy Classification for GIB: Replaced Refer to attachment A paragraph 1-4.2 OCCUPANCY CLASSIFICATION with Refer to Appendix "GIB and ACES Standard Design Criteria" paragraph 1-4.2 OCCUPANCY CLASSIFICATION.

REV 3.3 *30 May 2008*

1. Revised Paragraph 2.1 Scope of UEPH to include maximum gross area in square feet.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

2. Revised Paragraph 2.4 for CDC, YC, and ACSC facility types.

REV 3.2 *30 April 2008*

1. Added Physical Fitness Center and Army Fire Stations

2. For ORTC facility type added “for 80 persons” to the end of the first sentence in 2.1.3

3. Reference para 2.3 – GFGI – After the sentence “The following are also GFGI items:” and add: “ice machines for Battalion HQ, Barracks and Officer Quarters and washers and dryers for Barracks and Officer Quarters.”

4. In Paragraph 2.1, revised GSF for a 94PN medium-sized duplex Company Headquarters for the WT Complex back to 18,600.

5. Par. 2.1.1: Revised the maximum gross area for each B/COF from 64,680 square feet to 64,700 square feet.

6. Par. 2.1.1: Revised the maximum gross area for each BNHQ from 23,335 square feet to 23,500 square feet.

7. Par. 2.1.3: Corrected the CP reference to the BT Complex, instead of the AIT Complex.

8. Par. 2.2 Revised the format of the sentence in which the acreage area is inserted

9. Revised “Chapter 6” to read “Paragraph 6” throughout

REV 3.1 *28 March 2008*

1. Added Youth Center Facility Type

2. Revised to add Consolidate Fire, Safety, and Security Facility

3. Added following sentence to Paragraph 2.1 ARMY COMMUNITY SERVICE CENTER (ACSC)

   “The ACSC needs the same furniture provisions as the CDCs and YC; that is, neither the design or provision is included in the project.”

4. In Paragraph 2.1, revised GSF for a 47PN medium-sized Company Headquarters to 10,300.

5. In Paragraph 2.1, revised GSF for a 94PN medium-sized duplex Company Headquarters to 20,600.

6. Corrected SF and seating for 2600 person Training Dining Facility.

REV 3.0 *09 March 2008*

1. Added Warriors in Transition Complex.

REV 2.9 *15 January 2008*

1. Added Paragraph 2.1.8 BRIGADE HEADQUARTERS, for OPERATIONAL READINESS TRAINING COMPLEX (ORTC)

2. Added paragraphs for Basic Training and One Station Unit Training Complex.

REV 2.8 *15 December 2007*

1. Added paragraphs for Advanced Individual Training Complex.

REV 2.7 *15 November 2007*

1. Added paragraph for Chapel Facility.

REV 2.6 *19 October 2007*

1. Added paragraph for Command and Control Facilities.

REV 2.5 *10 September 2007*

1. Revised Brigade/Battalion, Company Operations Facility, and Tactical Equipment Maintenance Facility for new FY08 standard. **This change will only affect projects with the fiscal year of FY2008.**

2. Added paragraph for Army Community Service Center.

3. Paragraph 2.2 SITE has been revised in its entirety for Brigade/Battalion, Company Operations Facility, and Tactical Equipment Maintenance Facility for the new FY08 standard. **This change will only affect projects with the fiscal year of FY2008.**

REV 2.4 *01 September 2007*

1. Added paragraph for Child Development facility type.

REV 2.3 *15 July 2007*

1. Added paragraphs for all Operational Readiness Training Complex facility types.

REV 2.2 *15 April 2007*

1. Paragraph 2.1 Dining sizes, seats and staffing changed to reflect new standard designs.

REV 2.1 *25 January 2007*

1. Deleted the following (second) sentence in paragraph 2.3, GOVERNMENT-FURNISHED GOVERNMENT-INSTALLED EQUIPMENT (GFGI), to clarify that the Contractor is not responsible to provide carts, tables or cabinets for free standing GFGI equipment :

   "Include tables/cabinets/carts/etc. for GFGI equipment that is not freestanding in furniture design."

REV 2.0 *20 October 2006*

1. Under paragraph 2.1 COMPANY OPERATIONS FACILITY (COF), make the following revisions/additions:

   (a) Revise the second sentence of the second paragraph to read as follows: "The number of unified companies (UNICOF) per battalion and number of personnel per company for this project is as follows:"

   (b) Revise "XXX4 Battalion" to read "XXX4 Battalion (UNICOF)"

   (c) At the end of paragraph 2.1, add the following:

"A Troop Aid Station to support the Brigade [is] [is not] required [and will be included in the [____] Battalion UNICOF].

The preferred design approach for this complex is the [UNICOF-H] [UNICOF-L with detached admin] [UNICOF-L with integrated admin] layout scheme.

2. Under paragraph 2.1 TACTICAL EQUIPMENT MAINTENANCE FACILITY (TEMF), make the following revisions/additions:

   (a) At the end of the first paragraph, add the following: "Assume 12 percent of personnel are female unless otherwise indicated."

   (b) Between the last sentence of paragraph 2.1 and the last line of the specific sizing parameters add the following: "Note: The same information is required for each individual battalion TEMF."

3. In Paragraph 2.1 UNACCOMPANIED ENLISTED PERSONNEL HOUSING (UEPH) the following text was removed:

   "The maximum gross area for all buildings in the apartment complex is limited to XXX2."

4. In Paragraph 2.1 DINING FACILITY (DF), the following changes were made:

   (a) The following text was removed: "The maximum gross area for all Dining facilities in the project is limited to XX35"

   (b) Paragraphs for both the maximum gross square footage of the facility and for staffing the facility were added based on the number of soldiers to be fed

REV 1.0 *15 May 2006*

1. Baseline Document

PARAGRAPH 3 – UNACCOMPANIED ENLISTED PERSONNEL HOUSING (UEPH)

REV 3.1 *30 June 2012*

1. Various revisions in RED.

REV 3.0 *30 March 2012*

1. Revised in its entirety to match new paragraph 3 formatting.

REV 2.30 *31 January 2012*

1. Paragraph 3.4.4.6, added: "Provide a list of all required portable fire extinguishers, with descriptions (location, size, type, etc.) and total number per type. See also Section 01 33 16, Attachment D, "SAMPLE FIRE PROTECTION AND LIFE SAFETY CODE REVIEW", paragraph 1.14."

REV 2.29 *30 September 2011*

1. Removed GFGI before full size refrigerator in Paragraph 3.2.2.2.

2. Paragraph 3.4.3.5, added sub-paragraph (c) as follows:

"Stair Exit Doors: Each stair exit door on the first floor shall be furnished with a hard-wired contact switch connected to an alarm system. Alarm system shall sound an alarm at the door location and the CQ Desk when a stair exit door is opened. Switching OFF activated alarm shall be by key at the specific door and remotely at the CQ Desk. The inside face of each stair exit door on the first floor shall be furnished with a photo-luminescent sign. Photo-luminescent signs shall be manufactured and tested in accordance with the most current versions of ASTM E 2072 and ASTM E 2073. Sign shall be minimum 14-inches wide by 10-inches high, and shall be made of anodized aluminum. Lettering shall be red text on a yellow background. Lettering shall be upper case, and shall read as follows: "EMERGENCY EXIT ONLY" (minimum 4-inches high letters) "SECURITY ALARM WILL SOUND IF DOOR IS OPENED" (minimum 3-inches high letters). Signs shall be mounted centered on interior face of door above exit device."

3. Para 3.4.5.2. - Revise paragraph to read "Minimum Interior Finishes Table, Notes 6 and 7 as follows:

   6. UP TO 50% OF CEILING AREA MAY BE ACOUSTICAL CEILING TILE. ALL ACOUSTICAL CEILING TILE SHALL BE INSTALLED WITH HOLD DOWN CLIPS TO PREVENT UPWARD MOVEMENT. CEILING LAYOUT SHALL BE A BALANCED MIX OF GYPSUM BOARD AND ACOUSTICAL CEILING TILE, SUCH THAT ONE FINSH MATERIAL IS NOT CONENTRATED IN OR RESTRICTED TO ONE AREA OF THE CEILING.

   7. PROVIDE FLOOR DRAIN IN CENTER OF ROOM. CEILING MAYBE PAINTED EXPOSED STRUCTURE IF ALLOWED BY APPLICABLE CODE AND CRITERIA. THIS NOTE DOES NOT APPLY TO DWELLING UNIT MECHANICAL CLOSETS.

4. Para 3.6.4., added the following sentences at the end:

   "The peak values indicated for each schedule shall be used for the baseline energy calculation. The hourly peak fraction values for various load components for each schedule shall be used for both the baseline and proposed design energy calculations."

5. Para 3.6.4. UEPH Apartment Unit Internal Load Schedules revised Service Hot Water peak as follows: 40 gal/hr/person (114 L/hr/person)

6. Para 3.7.1.4. added the following sentence to the beginning of the paragraph: "Dryers shall be vented to exterior according to all applicable criteria and manufacturer's installation instructions."

7. Para 3.7.2.4. added the following sentence at the end of the paragraph: "Occupant controller shall not have any provisions for occupant adjustment beyond that stated in this paragraph. Any further adjustments beyond as described shall be by authorized personnel only."

8. Para 3.8.1.1. deleted "Lighting shall utilize compact fluorescent fixtures with manual on/off switching" and replaced with "Lighting shall utilize compact fluorescent fixtures with automatic occupancy sensor detection switching. Switching shall be manual-ON/Automatic OFF."

9. Para 3.8.1 - Deleted "Compact fluorescent lamps of 12 watts or less shall not be used."

10. Add Para 3.8.1.9 "Provide automatic occupancy sensor detection switching in each walk-in closet. Switching shall be manual-ON/Automatic OFF."

REV 2.28 31 May 2011

1. Revised first sentence in Paragraph 3.7.1.2.

REV 2.27 31 March 2011

1. Revised first sentence in Paragraph 3.2(a) to remove the work only.

REV 2.26 31 January 2011

1. Revised paragraph 3.2 to read that the elevator system and elevator inspector should complies with the most current editions of the referenced documents.

2. Para 3.4.5.2: Added Mail Access Area if located outside building and added note 10.

3. Modified maximum plumbing fixture flow rates in paragraph 3.7.1.1:

   Water closets: Flush valve type providing 1.28 gallons per flush or dual flush with an equivalent average flush volume of 1.28 gallons per flush. Water closets shall conform to Maximum Performance Testing (MaP) requirements as per most current testing report by Veritec and Koeller found at http://www.cuwcc.org/MaPTesting.aspx. The website includes the test report, testing protocol, and a list of tested water closet/flush valve combinations. Water closets shall be able to flush a minimum 800 gram test sample with a single flush.

1. Added the following to the end of paragraph 3.7.2.1:

   All sleeping unit HVAC units shall have piping and duct connections that allow quick and easy removal and replacement of individual units.

2. Added the following paragraph 3.8.2.5:

   Electrical service shall be provided for electric dryers regardless of whether or not electric dryers are to be used.

REV 2.25 30 November 2010

4. Add a new paragraph: "3.5.2. Wood frame construction is prohibited from use in all facilities 5-stories or greater"

5. Para 3.6.1.: Revised HVAC criteria for Air Conditioner in Energy Conservation Features Tables to read

   "Energy Efficient Heating and Cooling System with Associated Heating and Reheat Coil

   DOAS with 14 SEER DX coil (3.52 COP), Hot Gas Reheat and Auxiliary Heat/ Reheat Coil"

REV 2.24 31 October 2010

1. Para 3.4.4.2 – Added following sentence to end of paragraph: "Glazing shall be laminated glass."

2. Para 3.5.1 – Added following note: "(Note that the minimum live loads indicated do not include partition loads. Partition live loads of 15 pounds per square foot (psf) shall be added to all areas with a live load of 80 psf or less)"

3. Para 3.7.1.1 – Revised Maximum plumbing fixture flow rates as follows:

   Water closets: 1.28 gallons per flush (or dual flush type with an equivalent average flush volume)

   Showers: 1.5 gpm ~~2.0 gpm~~

   Bathroom sinks: 0.5 gpm ~~1.0 gpm~~

   Kitchen sinks: 1.5 gpm

   Janitor sinks: 1.5 gpm ~~2.0 gpm~~"

4. Para 3.8.1.7. – Correct spelling of kiosk

REV 2.23 31 July 2010

1. Para 3.2.1. – Revise paragraph to read "ACCESSIBILITY REQUIREMENTS:

   Able-bodied soldiers occupy and manage UEPH facilities. The Architectural Barriers Act (ABA) requirements do not apply to UEPH facilities, except as follows:

2. Para 3.2.2.3 – Added following sentenced towards end of paragraph: "Provide one combination tumbler holder/tooth brush holder and one soap dish at each medicine cabinet. Install each set of tooth brush/tumbler holder and soap dish in a stack, with bottom of tooth brush/tumbler holder 6-inches above top of soap dish."

3. Para 3.2.3.5. – Revise paragraph to read: "Vending Area: Provide a minimum of one vending area centrally located on the ground floor of each barracks building. For barracks buildings higher than three stories, provide a minimum of one vending area centrally located on the ground floor of each barracks building, and a minimum of one vending area centrally located on every other floor above the ground floor of each barracks building. Provide additional ventilation/exhaust to maintain vending areas temperature at levels specified for corridors. Each Vending Area shall be sized to accommodate one ice cube machine-dispenser designed for hotel type ice bucket filling, capable of producing minimum 250 pounds of regular ice cubes in 24 hours, with 180 pound storage capacity, and one full-size vending machine per 80 – 100 residents, or space for a minimum of three full-size vending machines, whichever is greater. Provide power receptacles for vending machines and ice cube machine-dispensers. Provide water and drain connections for ice cube machine-dispensers. Provide floor drain for ice cube machine-dispensers. Locate vending areas in central locations that are easily monitored. Vending Machines and ice cube machine-dispenser shall be GFGI"

4. Para 3.4.1.5 – Added the following sentence middle of paragraph: "All blank key cards shall be serially numbered and each key card shall have its number permanently inscribed on it. "

5. Para 3.4.4.10.(b)(5) – Revise paragraph to read “Two combination tumbler holder/toothbrush holder – one at each medicine cabinet

6. Para 3.4.4.10. – added (b) (10) Two soap dish – one at each medicine cabinet”

7. Para 3.4.5.2. – Added Note 9 to Bedroom. 9. WHERE MASONRY WALLS ARE PROPOSED AS THE BEDROOM WALL FINISH SYSTEM, THE LONGEST WALL IN EACH BEDROOM SHALL BE FINISHED WITH A TACKABLE MATERIAL. TACKABLE MATERIAL SHALL BE GYPSUM BOARD AND SHALL COMPLY WITH THE REQUIREMENTS OF PARAGRAPH 3.4.5.2.(c)

8. Para 3.8.1.7. – Revise paragraph to read “If mail is distributed from an exterior kiosk or through an exterior wall provide a minimum illuminance level of 5-footcandles

REV 2.22 30 June 2010

1. Para 3.4.3.5.(b) – Revise sub-paragraph to read “Other Exterior Doors: Provide ~~galvanized~~ insulated hollow metal exterior doors for entry to all spaces other than corridors, lobbies, or reception/waiting rooms. Doors and frames shall comply with applicable codes and criteria. Doors shall be minimum Level 3, physical performance Level A, Model 2 ~~flush; A60 galvannealed~~. Frames shall be minimum 12-gauge, with continuously welded mitered corners and seamless face joints. Doors and frames shall be A60 galvannealed, shall comply with ASTM A653 and shall be factory primed. ~~constructed of hot dipped zinc coated steel sheet, complying with ASTM A653, Commercial Steel, Type B, minimum A40 coating weight; factory primed.~~ Fire-rated openings shall comply with applicable codes, and the requirements of the labeling authority. Door and frame installation shall comply with applicable codes and criteria.”

2. Para 3.4.4.7.(b) – Revise sub-paragraph to read “Insulated Metal Doors: Comply with applicable codes and criteria. Doors shall be minimum Level 3, physical performance Level A, Model 2; factory primed. Provide insulated metal doors at utility rooms, janitor closets, module entry (if solid core insulated hollow metal door is required), and stairwell doors.”

3. Para 3.4.4.10. – Revise paragraph to read “Toilet Accessories: Furnish and install the items listed below and all other toilet accessories necessary for a complete and usable facility. All toilet accessories except soap dishes at tub/shower, shall be Type 304 stainless steel with satin finish.

   (a) Public Toilets (IF REQUIRED BY THE RFP): Toilet accessories shall conform to the requirements of the ABA and shall include, but are not limited to the following:

      1. Glass mirrors on stainless steel frame and shelf – at each lavatory

      2. Liquid soap dispenser – at each lavatory

      3. Combination recessed mounted paper-towel dispenser/waste receptacle

      4. Sanitary napkin disposal at each female\unisex toilet

      5. Recessed mounted lockable double toilet paper holder – at each water closet.

      6. Sanitary toilet seat cover dispenser – a minimum of one per toilet room

7. Grab bars – as required by ABA

(b) Dwelling unit bathroom accessories shall at a minimum include:

1. Two heavy duty towel bars – minimum 24 inches wide each

2. Two recessed mounted mirrored medicine cabinets – at each lavatory. (See Section 01 10 00 Paragraph 3.2.2.3.)

3. Two soap dish - at tub/shower. Soap dishes shall be molded into fiberglass or acrylic tub surround.

4. One wall mounted retractable clothesline – across tub/shower

5. Two combination soap dish/toothbrush holder – one at each medicine cabinet

6. Double robe hook - on inside face of bathroom door

7. Toilet paper holder – at each water closet.

8. Curved shower curtain rod - extra heavy duty

9. Shower curtain – white anti-bacterial nylon/vinyl fabric shower curtain."

4. Para 3.6. – Revise paragraph title to read "ENERGY CONSERVATION ~~COMPLIANCE WITH THE ENERGY POLICY ACT OF 2005 (EPACT 2005)~~"

5. Para 3.6.1. – Revise paragraph to read "Energy Performance ~~EPACT 2005 Requirement~~

The building, including the building envelope, HVAC systems, service water heating, power, and lighting systems shall be designed to achieve a~~n~~ non-plug load energy consumption that is at least 40% ~~30%~~ below the consumption of a baseline building meeting the minimum requirements of ANSI/ASHRAE/IESNA Standard 90.1-2007 (see paragraph 5.9 Energy Conservation). (Note: Plug loads shall be included in building energy modeling but are subtracted in the final calculation of Energy Performance. See section "Design After Award" for additional guidance.) **[In addition, the building shall be designed and constructed to provide 30% of domestic hot water by use of solar hot water system.]**

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

6. Para 3.6.2. – Revise paragraph to read "Required Energy Conservation Features ~~Target Energy Consumption Budget~~

~~The target energy consumption budget (excluding plug loads) for this facility located in Climate Zone «CLIMATE_ZONE» is «UEPH_CLIMATE_ZONE_VALUE» kBTU per ft^2 per year or less.~~

All items listed in the required energy conservation features table shall be provided as a minimum. Additional energy conservation features may be required to meet the above energy performance. The contractor is responsible for determining and providing additional energy conservation features to meet the energy performance requirement."

7. Para 3.6.3. – Revise paragraph as follows: "Compliance Documentation ~~Prescriptive Path (Use of Technology Solution Set)~~

~~The technology solution set shown in the table below contributes to achievement of the above energy performance and life cycle cost effectiveness requirements for a UEPH facility in the indicated DOE climatic zone.~~

The required energy conservation features shown in the following tables contribute to the achievement of the above energy performance and are life cycle cost effective for a UEPH facility. Use of the required energy conservation features does not eliminate the requirement for energy analysis calculations documenting compliance. The D-B contractor must document compliance with the above energy performance utilizing the methodology described in ASHRAE 90.1, Appendix G as discussed in section 01 33 16 Design After Award.

<*UEPH_ZONE1A*>Climate Zone 1A, Energy Conservation Features ~~Prescriptive Technology Solution~~ Table

Item	Component	Minimum Requirements ~~30% Solution~~
Roof	Attic	R-40
	Surface reflectance	0.27
Walls	Light Weight Construction	R-20
Exposed Floors	Mass	R-5 c.i.
Slabs	Unheated	NR (2)
Doors	Swinging	U-0.70
	Non-Swinging	U-1.45
Infiltration		0.25 cfm/ft^2 @ 75 Pa (3)
Vertical Glazing	Window to Wall Ratio (WWR)	10% - 20%
	Thermal transmittance	U-0.45
	Solar heat gain coefficient (SHGC)	0.31
Interior Lighting	Lighting Power Density (LPD)	0.9 W/ft^2
	Ballast	Electronic ballast
HVAC	Air Conditioner	4-Pipe Fan Coil with central chiller and boiler plus DOAS (4) with 14.0 SEER DX coil (3.52 COP) and HHW coil on central boiler SAT control 55ºF – 62ºF with OAT 75º – 54ºF
	Gas Furnace	none
	ERV	70% - 75% sensible effectiveness
Economizer		no
Ventilation	Outdoor Air Damper	Motorized control
	Demand Control	NR

	Laundry Room	Decoupled (5)
Ducts	Friction Rate	0.08 in. w.c./100 feet
	Sealing	Seal class B
	Location	Interior only
	Insulation level	R-6 (6)
Service Water Heating	Gas storage	90% E_t

</UEPH_ZONE1A><UEPH_ZONE2A>**Climate Zone 2A, Energy Conservation Features ~~Prescriptive Technology Solution~~ Table**

Item	Component	Minimum Requirements ~~30% Solution~~
Roof	Attic	R-40
	Surface reflectance	0.27
Walls	Light Weight Construction	R-20
Exposed Floors	Mass	R-10 c.i.
Slabs	Unheated	NR (2)
Doors	Swinging	U-0.70
	Non-Swinging	U-1.45
Infiltration		0.25 cfm/ft^2 @ 75 Pa (3)
Vertical Glazing	Window to Wall Ratio (WWR)	10% - 20%
	Thermal transmittance	U-0.45
	Solar heat gain coefficient (SHGC)	0.31
Interior Lighting	Lighting Power Density (LPD)	0.9 W/ft^2
	Ballast	Electronic ballast
HVAC	Air Conditioner	4-Pipe Fan Coil with central chiller and boiler plus DOAS (4) with 14.0 SEER DX coil (3.52 COP) and HHW coil on central boiler SAT control 55ºF – 62ºF with OAT 75º – 54ºF
	Gas Furnace	none
	ERV	70% - 75% sensible effectiveness
Economizer		no
Ventilation	Outdoor Air Damper	Motorized control
	Demand Control	NR

	Laundry Room	Decoupled (5)
Ducts	Friction Rate	0.08 in. w.c./100 feet
	Sealing	Seal class B
	Location	Interior only
	Insulation level	R-6 (6)
Service Water Heating	Gas storage	90% E_t

</UEPH_ZONE2A><UEPH_ZONE2B>**Climate Zone 2B, Energy Conservation Features ~~Prescriptive Technology Solution~~ Table**

Item	Component	Minimum Requirements ~~30% Solution~~
Roof	Attic	R-40
	Surface reflectance	0.27
Walls	Light Weight Construction	R-20
Exposed Floors	Mass	R-10 c.i.
Slabs	Unheated	NR (2)
Doors	Swinging	U-0.70
	Non-Swinging	U-1.45
Infiltration		0.25 cfm/ft^2 @ 75 Pa (3)
Vertical Glazing	Window to Wall Ratio (WWR)	10% - 20%
	Thermal transmittance	U-0.45
	Solar heat gain coefficient (SHGC)	0.31
Interior Lighting	Lighting Power Density (LPD)	0.9 W/ft^2
	Ballast	Electronic ballast
HVAC	Air Conditioner	4-Pipe Fan Coil with central chiller and boiler plus DOAS (4) with 14.0 SEER DX coil (3.52 COP) and HHW coil on central boiler SAT control 55ºF – 62ºF with OAT 75º – 54ºF
	Gas Furnace	none
	ERV	70% - 75% sensible effectiveness
Economizer		yes
Ventilation	Outdoor Air Damper	Motorized control
	Demand Control	NR

	Laundry Room	Decoupled (5)
Ducts	Friction Rate	0.08 in. w.c./100 feet
	Sealing	Seal class B
	Location	Interior only
	Insulation level	R-6 (6)
Service Water Heating	Gas storage	90% E_t

</UEPH_ZONE2B><UEPH_ZONE3A>**Climate Zone 3A, Energy Conservation Features ~~Prescriptive Technology Solution~~ Table**

Item	Component	Minimum Requirements ~~30% Solution~~
Roof	Attic	R-40
	Surface reflectance	0.27
Walls	Light Weight Construction	R-20
Exposed Floors	Mass	R-10 c.i.
Slabs	Unheated	NR (2)
Doors	Swinging	U-0.70
	Non-Swinging	U-1.45
Infiltration		0.25 cfm/ft^2 @ 75 Pa (3)
Vertical Glazing	Window to Wall Ratio (WWR)	10% - 20%
	Thermal transmittance	U-0.45
	Solar heat gain coefficient (SHGC)	0.31
Interior Lighting	Lighting Power Density (LPD)	0.9 W/ft^2
	Ballast	Electronic ballast
HVAC	Air Conditioner	4-Pipe Fan Coil with central chiller and boiler plus DOAS (4) with 14.0 SEER DX coil (3.52 COP) and HHW coil on central boiler SAT control 55ºF – 62ºF with OAT 75º – 54ºF
	Gas Furnace	none
	ERV	70% - 75% sensible effectiveness
Economizer		no
Ventilation	Outdoor Air Damper	Motorized control
	Demand Control	NR

	Laundry Room	Decoupled (5)
Ducts	Friction Rate	0.08 in. w.c./100 feet
	Sealing	Seal class B
	Location	Interior only
	Insulation level	R-6 (6)
Service Water Heating	Gas storage	90% E_t

</UEPH_ZONE3A><UEPH_ZONE3B>**Climate Zone 3B, Energy Conservation Features ~~Prescriptive Technology Solution~~ Table**

Item	**Component**	**Minimum Requirements ~~30% Solution~~**
Roof	Attic	R-40
	Surface reflectance	0.27
Walls	Light Weight Construction	R-20
Exposed Floors	Mass	R-10 c.i.
Slabs	Unheated	NR (2)
Doors	Swinging	U-0.70
	Non-Swinging	U-1.45
Infiltration		0.25 cfm/ft^2 @ 75 Pa (3)
Vertical Glazing	Window to Wall Ratio (WWR)	10% - 20%
	Thermal transmittance	U-0.45
	Solar heat gain coefficient (SHGC)	0.31
Interior Lighting	Lighting Power Density (LPD)	0.9 W/ft^2
	Ballast	Electronic ballast
HVAC	Air Conditioner	4-Pipe Fan Coil with central chiller and boiler plus DOAS (4) with 14.0 SEER DX coil (3.52 COP) and HHW coil on central boiler SAT control 55ºF – 62ºF with OAT 75º – 54ºF
	Gas Furnace	none
	ERV	70% - 75% sensible effectiveness
Economizer		yes
Ventilation	Outdoor Air Damper	Motorized control
	Demand Control	NR

	Laundry Room	Decoupled (5)
Ducts	Friction Rate	0.08 in. w.c./100 feet
	Sealing	Seal class B
	Location	Interior only
	Insulation level	R-6 (6)
Service Water Heating	Gas storage	90% E_t

</UEPH_ZONE3B><UEPH_ZONE3C>**Climate Zone 3C, Energy Conservation Features ~~Prescriptive Technology Solution~~ Table**

Item	**Component**	**Minimum Requirements ~~30% Solution~~**
Roof	Attic	R-40
	Surface reflectance	0.27
Walls	Light Weight Construction	R-20
Exposed Floors	Mass	R-10 c.i.
Slabs	Unheated	NR (2)
Doors	Swinging	U-0.70
	Non-Swinging	U-1.45
Infiltration		0.25 cfm/ft^2 @ 75 Pa (3)
Vertical Glazing	Window to Wall Ratio (WWR)	10% - 20%
	Thermal transmittance	U-0.45
	Solar heat gain coefficient (SHGC)	0.31
Interior Lighting	Lighting Power Density (LPD)	0.9 W/ft^2
	Ballast	Electronic ballast
HVAC	Air Conditioner	4-Pipe Fan Coil with central chiller and boiler plus DOAS (4) with 14.0 SEER DX coil (3.52 COP) and HHW coil on central boiler SAT control 55ºF – 62ºF with OAT 75º – 54ºF
	Gas Furnace	none
	ERV	70% - 75% sensible effectiveness
Economizer		yes
Ventilation	Outdoor Air Damper	Motorized control
	Demand Control	NR

	Laundry Room	Decoupled (5)
Ducts	Friction Rate	0.08 in. w.c./100 feet
	Sealing	Seal class B
	Location	Interior only
	Insulation level	R-6 (6)
Service Water Heating	Gas storage	90% E_t

</UEPH_ZONE3C><UEPH_ZONE4A>**Climate Zone 4A, Energy Conservation Features ~~Prescriptive Technology Solution~~ Table**

Item	**Component**	**Minimum Requirements ~~30% Solution~~**
Roof	Attic	R-50
	Surface reflectance	0.27
Walls	Light Weight Construction	R-20
Exposed Floors	Mass	R-20
Slabs	Unheated	NR (2)
Doors	Swinging	U-0.70
	Non-Swinging	U-1.45
Infiltration		0.25 cfm/ft^2 @ 75 Pa (3)
Vertical Glazing	Window to Wall Ratio (WWR)	10% - 20%
	Thermal transmittance	U-0.45
	Solar heat gain coefficient (SHGC)	0.31
Interior Lighting	Lighting Power Density (LPD)	0.9 W/ft^2
	Ballast	Electronic ballast
HVAC	Air Conditioner	4-Pipe Fan Coil with central chiller and boiler plus DOAS (4) with 14.0 SEER DX coil (3.52 COP) and HHW coil on central boiler SAT control 55ºF – 62ºF with OAT 75º – 54ºF
	Gas Furnace	none
	ERV	70% - 75% sensible effectiveness
Economizer		no
Ventilation	Outdoor Air Damper	Motorized control
	Demand Control	NR

	Laundry Room	Decoupled (5)
Ducts	Friction Rate	0.08 in. w.c./100 feet
	Sealing	Seal class B
	Location	Interior only
	Insulation level	R-6 (6)
Service Water Heating	Gas storage	90% E_t

</UEPH_ZONE4A><UEPH_ZONE4B>**Climate Zone 4B, Energy Conservation Features ~~Prescriptive Technology Solution~~ Table**

Item	**Component**	**Minimum Requirements ~~30% Solution~~**
Roof	Attic	R-50
	Surface reflectance	0.27
Walls	Light Weight Construction	R-25
Exposed Floors	Mass	R-20
Slabs	Unheated	NR (2)
Doors	Swinging	U-0.70
	Non-Swinging	U-1.45
Infiltration		0.25 cfm/ft^2 @ 75 Pa (3)
Vertical Glazing	Window to Wall Ratio (WWR)	10% - 20%
	Thermal transmittance	U-0.42
	Solar heat gain coefficient (SHGC)	0.46
Interior Lighting	Lighting Power Density (LPD)	0.9 W/ft^2
	Ballast	Electronic ballast
HVAC	Air Conditioner	4-Pipe Fan Coil with central chiller and boiler plus DOAS (4) with 14.0 SEER DX coil (3.52 COP) and HHW coil on central boiler SAT control 55ºF – 62ºF with OAT 75º – 54ºF
	Gas Furnace	none
	ERV	70% - 75% sensible effectiveness
Economizer		yes
Ventilation	Outdoor Air Damper	Motorized control
	Demand Control	NR

	Laundry Room	Decoupled (5)
Ducts	Friction Rate	0.08 in. w.c./100 feet
	Sealing	Seal class B
	Location	Interior only
	Insulation level	R-6 (6)
Service Water Heating	Gas storage	90% E_t

</UEPH_ZONE4B><UEPH_ZONE4C>**Climate Zone 4C, Energy Conservation Features ~~Prescriptive Technology Solution~~ Table**

Item	**Component**	**Minimum Requirements ~~30% Solution~~**
Roof	Attic	R-50
	Surface reflectance	0.27
Walls	Light Weight Construction	R-25
Exposed Floors	Mass	R-20
Slabs	Unheated	NR (2)
Doors	Swinging	U-0.70
	Non-Swinging	U-1.45
Infiltration		0.25 cfm/ft^2 @ 75 Pa (3)
Vertical Glazing	Window to Wall Ratio (WWR)	10% - 20%
	Thermal transmittance	U-0.42
	Solar heat gain coefficient (SHGC)	0.46
Interior Lighting	Lighting Power Density (LPD)	0.9 W/ft^2
	Ballast	Electronic ballast
HVAC	Air Conditioner	4-Pipe Fan Coil with central chiller and boiler plus DOAS (4) with 14.0 SEER DX coil (3.52 COP) and HHW coil on central boiler SAT control 55ºF – 62ºF with OAT 75º – 54ºF
	Gas Furnace	none
	ERV	70% - 75% sensible effectiveness
Economizer		yes
Ventilation	Outdoor Air Damper	Motorized control
	Demand Control	NR

	Laundry Room	Decoupled (5)
Ducts	Friction Rate	0.08 in. w.c./100 feet
	Sealing	Seal class B
	Location	Interior only
	Insulation level	R-6 (6)
Service Water Heating	Gas storage	90% E_t

</UEPH_ZONE4C><UEPH_ZONE5A>**Climate Zone 5A, Energy Conservation Features ~~Prescriptive Technology Solution~~ Table**

Item	Component	Minimum Requirements ~~30% Solution~~
Roof	Attic	R-50
	Surface reflectance	0.27
Walls	Light Weight Construction	R-25
Exposed Floors	Mass	R-20
Slabs	Unheated	NR (2)
Doors	Swinging	U-0.70
	Non-Swinging	U-1.45
Infiltration		0.25 cfm/ft^2 @ 75 Pa (3)
Vertical Glazing	Window to Wall Ratio (WWR)	10% - 20%
	Thermal transmittance	U-0.42
	Solar heat gain coefficient (SHGC)	0.46
Interior Lighting	Lighting Power Density (LPD)	0.9 W/ft^2
	Ballast	Electronic ballast
HVAC	Air Conditioner	4-Pipe Fan Coil with central chiller and boiler plus DOAS (4) with 14.0 SEER DX coil (3.52 COP) and HHW coil on central boiler SAT control 55ºF – 62ºF with OAT 75º – 54ºF
	Gas Furnace	none
	ERV	70% - 75% sensible effectiveness
Economizer		yes
Ventilation	Outdoor Air Damper	Motorized control
	Demand Control	NR

	Laundry Room	Decoupled (5)
Ducts	Friction Rate	0.08 in. w.c./100 feet
	Sealing	Seal class B
	Location	Interior only
	Insulation level	R-6 (6)
Service Water Heating	Gas storage	90% E_t

</UEPH_ZONE5A><UEPH_ZONE5B>**Climate Zone 5B, Energy Conservation Features ~~Prescriptive Technology Solution~~ Table**

Item	**Component**	**Minimum Requirements ~~30% Solution~~**
Roof	Attic	R-50
	Surface reflectance	0.27
Walls	Light Weight Construction	R-25
Exposed Floors	Mass	R-20
Slabs	Unheated	NR (2)
Doors	Swinging	U-0.70
	Non-Swinging	U-1.45
Infiltration		0.25 cfm/ft^2 @ 75 Pa (3)
Vertical Glazing	Window to Wall Ratio (WWR)	10% - 20%
	Thermal transmittance	U-0.42
	Solar heat gain coefficient (SHGC)	0.46
Interior Lighting	Lighting Power Density (LPD)	0.9 W/ft^2
	Ballast	Electronic ballast
HVAC	Air Conditioner	4-Pipe Fan Coil with central chiller and boiler plus DOAS (4) with 14.0 SEER DX coil (3.52 COP) and HHW coil on central boiler SAT control 55ºF – 62ºF with OAT 75º – 54ºF
	Gas Furnace	none
	ERV	70% - 75% sensible effectiveness
Economizer		yes
Ventilation	Outdoor Air Damper	Motorized control
	Demand Control	NR

	Laundry Room	Decoupled (5)
Ducts	Friction Rate	0.08 in. w.c./100 feet
	Sealing	Seal class B
	Location	Interior only
	Insulation level	R-6 (6)
Service Water Heating	Gas storage	90% E_t

</UEPH_ZONE5B><UEPH_ZONE6A>**Climate Zone 6A, Energy Conservation Features ~~Prescriptive Technology Solution~~ Table**

Item	Component	Minimum Requirements ~~30% Solution~~
Roof	Attic	R-60
	Surface reflectance	0.27
Walls	Light Weight Construction	R-30
Exposed Floors	Mass	R-30
Slabs	Unheated	NR (2)
Doors	Swinging	U-0.70
	Non-Swinging	U-1.45
Infiltration		0.25 cfm/ft^2 @ 75 Pa (3)
Vertical Glazing	Window to Wall Ratio (WWR)	10% - 20%
	Thermal transmittance	U-0.42
	Solar heat gain coefficient (SHGC)	0.46
Interior Lighting	Lighting Power Density (LPD)	0.9 W/ft^2
	Ballast	Electronic ballast
HVAC	Air Conditioner	4-Pipe Fan Coil with central chiller and boiler plus DOAS (4) with 14.0 SEER DX coil (3.52 COP) and HHW coil on central boiler SAT control 55ºF – 62ºF with OAT 75º – 54ºF
	Gas Furnace	none
	ERV	70% - 75% sensible effectiveness
Economizer		yes
Ventilation	Outdoor Air Damper	Motorized control
	Demand Control	NR

	Laundry Room	Decoupled (5)
Ducts	Friction Rate	0.08 in. w.c./100 feet
	Sealing	Seal class B
	Location	Interior only
	Insulation level	R-6 (6)
Service Water Heating	Gas storage	90% E_t

</UEPH_ZONE6A><UEPH_ZONE6B>**Climate Zone 6B, Energy Conservation Features ~~Prescriptive Technology Solution~~ Table**

Item	**Component**	**Minimum Requirements ~~30% Solution~~**
Roof	Attic	R-60
	Surface reflectance	0.27
Walls	Light Weight Construction	R-30
Exposed Floors	Mass	R-30
Slabs	Unheated	NR (2)
Doors	Swinging	U-0.70
	Non-Swinging	U-0.50
Infiltration		0.25 cfm/ft^2 @ 75 Pa (3)
Vertical Glazing	Window to Wall Ratio (WWR)	10% - 20%
	Thermal transmittance	U-0.42
	Solar heat gain coefficient (SHGC)	0.46
Interior Lighting	Lighting Power Density (LPD)	0.9 W/ft^2
	Ballast	Electronic ballast
HVAC	Air Conditioner	4-Pipe Fan Coil with central chiller and boiler plus DOAS (4) with 14.0 SEER DX coil (3.52 COP) and HHW coil on central boiler SAT control 55ºF – 62ºF with OAT 75º – 54ºF
	Gas Furnace	none
	ERV	70% - 75% sensible effectiveness
Economizer		yes
Ventilation	Outdoor Air Damper	Motorized control
	Demand Control	NR

	Laundry Room	Decoupled (5)
Ducts	Friction Rate	0.08 in. w.c./100 feet
	Sealing	Seal class B
	Location	Interior only
	Insulation level	R-6 (6)
Service Water Heating	Gas storage	90% E_t

</UEPH_ZONE6B><UEPH_ZONE7A>**Climate Zone 7A, Energy Conservation Features ~~Prescriptive Technology Solution~~ Table**

Item	**Component**	**Minimum Requirements ~~30% Solution~~**
Roof	Attic	R-60
	Surface reflectance	0.27
Walls	Light Weight Construction	R-30
Exposed Floors	Mass	R-30.
Slabs	Unheated	NR (2)
Doors	Swinging	U-0.70
	Non-Swinging	U-0.50
Infiltration		0.25 cfm/ft^2 @ 75 Pa (3)
Vertical Glazing	Window to Wall Ratio (WWR)	10% - 20%
	Thermal transmittance	U-0.33
	Solar heat gain coefficient (SHGC)	NR
Interior Lighting	Lighting Power Density (LPD)	0.9 W/ft^2
	Ballast	Electronic ballast
HVAC	Air Conditioner	4-Pipe Fan Coil with central chiller and boiler plus DOAS (4) with 14.0 SEER DX coil (3.52 COP) and HHW coil on central boiler SAT control 55ºF – 62ºF with OAT 75º – 54ºF
	Gas Furnace	none
	ERV	70% - 75% sensible effectiveness
Economizer		yes
Ventilation	Outdoor Air Damper	Motorized control

	Demand Control	NR
	Laundry Room	Decoupled (5)
Ducts	Friction Rate	0.08 in. w.c./100 feet
	Sealing	Seal class B
	Location	Interior only
	Insulation level	R-6 (6)
Service Water Heating	Gas storage	90% E_t

</UEPH_ZONE7A><UEPH_ZONE8A>**Climate Zone 8A, Energy Conservation Features ~~Prescriptive Technology Solution~~ Table**

Item	**Component**	**Minimum Requirements ~~30% Solution~~**
Roof	Attic	R-60
	Surface reflectance	0.27
Walls	Light Weight Construction	R-30
Exposed Floors	Mass	R-30
Slabs	Unheated	10
Doors	Swinging	U-0.70
	Non-Swinging	U-0.50
Infiltration		0.25 cfm/ft^2 @ 75 Pa (3)
Vertical Glazing	Window to Wall Ratio (WWR)	10% - 20%
	Thermal transmittance	U-0.33
	Solar heat gain coefficient (SHGC)	0.31
Interior Lighting	Lighting Power Density (LPD)	0.9 W/ft^2
	Ballast	Electronic ballast
HVAC	Air Conditioner	4-Pipe Fan Coil with central chiller and boiler plus DOAS (4) with 14.0 SEER DX coil (3.52 COP) and HHW coil on central boiler SAT control 55ºF – 62ºF with OAT 75º – 54ºF
	Gas Furnace	none
	ERV	70% - 75% sensible effectiveness
Economizer		yes
Ventilation	Outdoor Air Damper	Motorized control

	Demand Control	NR
	Laundry Room	Decoupled (5)
Ducts	Friction Rate	0.08 in. w.c./100 feet
	Sealing	Seal class B
	Location	Interior only
	Insulation level	R-6 (6)
Service Water Heating	Gas storage	90% E_t

</UEPH_ZONE8A>

Notes for Energy Conservation Features ~~Perscriptive Technology Solution~~ Tables:

(1) NOT USED

(2) NR means there is no requirement or recommendation for a component in this climate.

(3) Increased Building Air tightness. Building air leakage (measured in cfm/ft2) is the average volume of air(measured in cubic feet per minute) that passes through a unit area of the building envelope (measured in square feet) when the building is maintained at a specified internal pressure (measured in Pascals). Testing requirements are specified in Chapter 5..

(4) Dedicated Outdoor Air System. A central dedicated outdoor air system (DOAS) providing the following:

(a) Outside air for building indoor air quality and humidity control

(b) Make-up air for bathroom and kitchen exhausts

(c) Building pressurization to prevent infiltration which allows for reduction of heating/cooling and moisture loads on the system.

NOTE: The Central DOAS does not provide sensible heating or cooling. Sensible loads are provided by a complementing heating and cooling system

(5) **Decoupling exhaust and supply systems for laundry rooms**. To reduce unneeded energy use for heating and cooling of the make-up air and for air transportation of supply and exhausted air from the dryers, laundry exhaust and supply systems are separated in the efficient building model from the rest of the building exhaust and supply systems. Laundry exhaust system and corresponding make-up systems operate only when dryers are operating.

(6) The duct and pipe insulation values are from the ASHRAE Advanced Energy Design Guide for Small Offices.

All design features ~~of this EPACT 2005 and EISA 2007 compliant UEPH~~ not described above will be in accordance with the minimum requirements of ANSI/ASHRAE/IESNA Standard 90.1-2007. including conformance with paragraph 5.9.2, which requires purchase of Energy Star and FEMP designated products."

8. Para 3.6.4. – Revise paragraph to read "Schedules ~~Compliance Path~~

~~When the "Compliance Path" is selected, the facility design shall include a uniquely developed technology solution set which can be shown by the design analysis (using facility energy simulation software) not to exceed the target energy consumption budget stated in 3.6.2 above and meet all the criteria in the DOE interim final rule: "Energy Conservation Standards for New Federal Commercial and Multi-Family High-Rise Residential Buildings and New Federal Low-Rise Residential Buildings".~~

The following facility schedules must be used in all facility energy simulations for purposes of documenting compliance with energy performance requirement."

9. Para 3.6.4.1. – Delete this paragraph "~~Schedules~~

~~If a unique technology solution set method of compliance is chosen then the following facility schedules must be used in all facility energy simulations for purposes of showing compliance with 3.6.4. Additionally, for simulation of a baseline building model, the "baseline values" for each component shall be as per ASHRAE Standard 90.1-2004 Building Envelope Requirements table for applicable climate zone and residential construction.~~"

10. Para 3.7.1.1. – Revise paragraph to read "Water Heating: Domestic water heating system shall be sized based on 20 gallons of 110 deg. F hot water consumption per occupant during morning peak period. Peak period duration shall be 30 minutes (10 minute duration for shower and lavatory use per occupant per dwelling unit plus a 10 minute transition period). Hot water storage capacity shall be based on 75% usable storage and a storage temperature of 140 deg F. For domestic hot water pipe sizing, peak hot water flow rate shall be based on all showers flowing simultaneously at a rate of 2.0 gpm per shower. Waste stacks, building waste drains, and lift stations (if required) shall be sized with consideration of increased flow rates as well. Domestic hot water distribution shall be at 120 deg F from a central system mixing valve. Domestic hot water distribution piping shall be designed to handle up to 180 deg F water temperatures."

11. Para 3.8. – Revise paragraph to read "ELECTRICAL REQUIREMENTS

Select electrical characteristics of the power system to provide a safe, efficient, and economical distribution of power based upon the size and types of loads to be served. Use distribution and utilization voltages of the highest level that is practical for the load to be served. The effect of nonlinear loads such as computers, other electronic equipment and electronic ballasts shall be considered and accommodated as necessary. Voltage drop shall not exceed the maximum allowed per ASHRAE 90.1. Transient voltage surge protection shall be provided on service equipment. Bedrooms shall be considered to be living and sleeping rooms, therefore they are to be considered to be part of a dwelling unit per NFPA 70~~ definition with the exception that tamper resistant receptacles are not required~~."

REV 2.21 31 May 2010

1. Para 3.2.1. – Revised paragraph to remove Americans with Disabilities Act reference

2. Para 3.21.1. – Revise paragraph to remove ADA

3. Para 3.2.1.2. – Revise paragraph to remove ADA

4. Para 3.2.3.2 – Revise paragraph to remove ADA

5. Para 3.2.3.3. – Revise paragraph to remove ADA

6. Para 3.6.3. – Revised Climate Zone 7A Prescription Technology Solution Table.

7. Para 3.4.4.10. – Revise paragraph to remove ADA

REV 2.20 *30 April 2010*

1. Para 3.2.2.2. – Revise paragraph to read "Kitchen: Each dwelling unit shall have a full kitchen with adequate space and circulation to accommodate a GFGI full size refrigerator 28 inches wide, ***<UEPH_RANGE>***a GFGI electric oven/range 30 inches wide, with a CFCI built-in combination 30 inch wide vent hood and microwave oven, centered over the space provided for the electric range***</UEPH_RANGE><UEPH_TWOBURNER>***a CFCI built-in two-burner electric cooktop with a CFCI built-in combination vent hood and convection/microwave oven***</UEPH_TWOBURNER><UEPH_FOURBURNER>***a CFCI built-in four-burner electric cooktop with a CFCI built-in combination vent hood and convection/microwave oven***</UEPH_FOURBURNER>***, with standard height base cabinet system, wall cabinet system and countertops for food storage and preparation. Provide a minimum of two 18 inches wide drawer units in the kitchen base cabinet system. Provide utility connections and casework to accommodate appliances listed above. Provide area for recyclables receptacle and kitchen waste receptacle. Furnish and install a single bowl stainless steel kitchen sink. Provide utility connections and casework to accommodate future installation of a dishwasher. Future dishwasher space shall be furnished with a removable built-in full width shelf dividing it into two equal spaces, and a pair of removable swing doors matching the rest of the kitchen cabinetry. Provided a minimum of twelve (12) linear feet of base cabinet systems with twelve (12) linear feet of standard height counter and twelve (12) linear feet of wall cabinet systems. Twelve (12) linear feet of standard height counter includes required sink. In addition to the twelve (12) linear feet of standard height counter, kitchen layout shall accommodate a minimum of 36 linear inches of counter style seating and dining for two people, or provide space for a 36 inch diameter dining table with two chairs outside of the kitchen area.***<UEPH_DISPOSER>***Furnish and install a garbage disposer at the kitchen sink.***</UEPH_DISPOSER>***"

2. Para 3.2.3.4. – Revise paragraph to read "***<UEPH_LAUNDRY_DWELL>***Not Used***</UEPH_LAUNDRY_DWELL><UEPH_LAUNDRY_CENTRAL>***Centralized Laundry: Locate a minimum of one laundry room in a centralized location, on each floor of each barracks building. Interior of laundry rooms shall be visible from the corridor through glazed picture windows. Picture window glazing shall be laminated glass. Design-Build Contractor may propose an alternate solution that will provide visual monitoring of the laundry room in-lieu of using ~~a~~ picture windows. Laundry room entry shall provide a clear opening 36 inches wide minimum. Size self-serve laundry facilities to accommodate a combined total of no fewer than one commercial washer per 12 residents on each floor and one commercial dryer per 8 residents on each floor. Washers and dryers are GFGI. Fixed heavy gauge stainless steel clothes folding/hanging tables, stainless steel utility sinks and laundry supplies vending area are required features of centralized laundry facilities. Each fixed heavy gauge stainless steel clothes folding/hanging table shall be 2'-0" deep by 5'-0" wide. Provide one fixed heavy gauge stainless steel clothes folding/hanging table per 48 residents on each floor. Provide power receptacles for washers, dryers and laundry supplies vending machines. Provide a minimum of one convenience duplex power receptacle on each wall. Provide water and drain connections for all washers. Provide individual vent connections for all dryers.

Locate laundry rooms on exterior wall so that dryer exhaust can be vented directly to the exterior. ***</UEPH_LAUNDRY_CENTRAL>***"

3. Para 3.7.1.1. – Revise paragraph to read "Water Heating: Domestic water heating system shall be sized based on 20 gallons of 110 deg. F hot water consumption per occupant during morning peak period. Peak period duration shall be 30 minutes (10 minute duration for shower and lavatory use per occupant per dwelling unit plus a 10 minute transition period). Hot water storage capacity shall be based on 75% usable storage and a storage temperature of 140 deg F. For domestic hot water pipe sizing, peak hot water flow rate shall be based on all showers flowing simultaneously at a rate of 2.0 gpm per shower. Waste stacks, building waste drains, and lift stations (if required) shall be sized with consideration of increased flow rates as well. ~~Shower heads and lavatory faucets shall be water conservation type with maximum flow rate not to exceed 2.0 gpm.~~

   Maximum plumbing fixture flow rates shall be as follows:

   Water closets: 1.28 gallons per flush
   Showers: 2.0 gpm
   Bathroom sinks: 1.0 gpm
   Kitchen sinks: 1.5 gpm
   Janitor sinks: 2.0 gpm

4. Para 3.8.1.8. – Revise paragraph to read "Provide compact fluorescent light fixture with automatic occupancy sensor detection ~~manual~~ switching in each walk-in closet. Switching shall be manual-ON/Automatic OFF. "

5. Paragraph 3.8.3. – Revise body of this paragraph to read "MNS shall be integrated into the installation's area wide MNS (Giant Voice). See Paragraph 6 for ~~further~~ possible additional requirements.***</UEPH_MASS_YES>***"

6. Para 3.9. – Revise body of this paragraph to read "Telecommunications outlets shall be provided per the applicable criteria based on functional purpose of the space within the building ~~and in accordance with other provisions of this RFP. If conflict occurs between requirements of the applicable criteria and specific requirements within the RFP, the specific requirements shall govern~~."

7. Para 3.9.1. – Delete this paragraph "~~Equipment racks shall be 84" in height.~~"

8. Para 3.9.2. – Delete this paragraph "~~A cable tray shall be installed around the entire perimeter of all telecommunications rooms.~~"

9. Para 3.9.3. – Delete this paragraph "~~Provide a single 8-pin modular jack outlet and a single CATV jack outlet in each bedroom.~~"

10. Para 3.11.1.1. – Delete this paragraph "~~There shall be one complete addressable Fire Alarm System for each building. This system shall consist of a Fire Alarm Panel, a communications device, initiating devices and notification devices.~~"

11. Para 3.11.1.2 – Re-number this paragraph as "**3.11.1**"

12. Para 3.11.1.3. – Re-number this paragraph as "**3.11.2**"

13. Para 3.11.1.4. – Re- number this paragraph as "**3.11.3**"

REV 2.19 31 March 2010

1. Para 3.2.3.8. Revise paragraph to read: “Mechanical, Electrical, and Telecommunications Rooms: Mechanical rooms shall accommodate space for equipment maintenance/repair access without having to remove other equipment. Mechanical, electrical and telecommunications rooms shall be keyed separately for access by Installation maintenance personnel. Filter changes and preventative maintenance shall be performed without requiring access to the dwelling units. First floor exterior access is required for centralized mechanical and electrical rooms. ~~All t~~Telecommunications rooms shall ~~be conditioned space~~ comply with the requirements of ANSI/TIA/EIA-569-B. Refer to Mechanical and Electrical Sections for additional information.”

2. Para 3.4.5.2. – Revise MINIMUM INTERIOR FINISHES TABLE as follows: Delete ~~9’-0”~~ under MINIMUM HEIGHT Column @ TELECOMMUNICATIONS. Add NOTE # “8. COMPLY WITH THE REQUIREMENTS OF ANSI/TIA/EIA-569-B.” to the list of NOTES. Add “SEE NOTE 8” under the REMARKS Column @ TELECOMMUNICATIONS.

3. Para 3.8. – Revise paragraph to read:

   “ELECTRICAL REQUIREMENTS

   Select electrical characteristics of the power system to provide a safe, efficient, and economical distribution of power based upon the size and types of loads to be served. Use distribution and utilization voltages of the highest level that is practical for the load to be served. The effect of nonlinear loads such as computers, other electronic equipment and electronic ballasts shall be considered and accommodated as necessary. Voltage drop shall not exceed the maximum allowed per ASHRAE 90.1. Transient voltage surge protection shall be provided on service equipment. Bedrooms shall be considered to be living and sleeping rooms, therefore they are to be considered to be part of a dwelling unit per NFPA 70 definition with the exception that tamper resistant receptacles are not required.”

4. Para 3.8.1. – Delete redundant period at the end of the third sentence. Revise paragraph to read:

   “Interior Lighting

   Interior lighting controls shall be provided in accordance with ASHRAE 90.1. Compact fluorescent lamps of 12 watts or less shall not be used. Electronic ballasts for linear florescent lamps shall be the high efficiency programmed start type.~~.~~ Provided lighting levels shall be within +/- 10% of required lighting levels.”

5. Para 3.8.2. – Revise paragraph to read:

   “Interior Power

   ~~Interior power shall be provided for all installed equipment requiring power to include convenience receptacles and government furnished government installed equipment. Breaker panel for each dwelling unit shall be located in the common area. Breaker panels shall be lockable and all breaker panels in each building shall be keyed to one master key for maintenance personnel access only.~~ Power shall be provided for all installed equipment requiring power to include convenience receptacles and government furnished government installed equipment.

Panelboards located in accessible areas, shall be lockable and keyed to one master key.

6. Para 3.9.3. – Revise paragraph to read: “Provide a single 8-pin modular jack ~~for data~~outlet and a single CATV jack outlet in each bedroom.”

7. Para 3.10 – Revise paragraph to read:

   “CABLE TV (CATV) REQUIREMENTS

   All CATV outlet boxes, connectors, cabling, and cabinets shall conform to applicable criteria unless noted otherwise. All horizontal cabling shall be homerun from the CATV outlet to the nearest telecommunications room unless indicated otherwise. See paragraph 6 for possible additional requirements.”

8. Para 3.11.1.3.. – Revise paragraph to read “The fire alarm system ~~shall be designed by a registered fire protection engineer and~~ installation shall be supervised by a National Institute for Certification of Engineering Technologies (NICET) Level 3 (minimum) technician.”

REV 2.18 28 February 2010

1. Para 3.2.2.2. – Revise paragraph to read “Kitchen: Each dwelling unit shall have a full kitchen with adequate space and circulation to accommodate a GFGI full size refrigerator 28 inches wide, ***<UEPH_RANGE>***a GFGI electric oven/range 30 inches wide, with a CFCI built-in combination 30 inch wide vent hood and microwave oven, centered over the space provided for the electric range***</UEPH_RANGE><UEPH_TWOBURNER>***a CFCI built-in two-burner electric cooktop with a CFCI built-in combination vent hood and convection/microwave oven***</UEPH_TWOBURNER><UEPH_FOURBURNER>***a CFCI built-in four-burner electric cooktop with a CFCI built-in combination vent hood and convection/microwave oven***</UEPH_FOURBURNER>***, with standard height base cabinet system, wall cabinet system and countertops for food storage and preparation. Provide a minimum of two 18 inches wide drawer units in the kitchen base cabinet system. Provide utility connections and casework to accommodate appliances listed above. Provide area for recyclables receptacle and kitchen waste receptacle. Furnish and install a single bowl stainless steel kitchen sink. Provide utility connections and casework to accommodate future installation of a dishwasher. Future dishwasher space shall be furnished with a removable built-in full width shelf dividing it into two equal spaces, and a pair of removable swing doors matching the rest of the kitchen cabinetry. Provided a minimum of twelve (12) linear feet of base cabinet systems with twelve (12) linear feet of standard height counter and twelve (12) linear feet of wall cabinet systems. Twelve (12) linear feet of standard height counter includes required sink. In addition to the twelve (12) linear feet of standard height counter, ~~K~~kitchen layout shall accommodate a minimum of 36 linear inches of counter ~~space~~ style seating and dining ~~of~~ for two people, or provide space for a 36 inch diameter dining table with two chairs outside of the kitchen area. ***<UEPH_DISPOSER>***Furnish and install a garbage disposer at the kitchen sink.***</UEPH_DISPOSER>***”

2. Para 3.2.3.4. – Revise paragraph to read “***<UEPH_LAUNDRY_DWELL>***Not Used***</UEPH_LAUNDRY_DWELL><UEPH_LAUNDRY_CENTRAL>***Centralized Laundry: Locate a minimum of one laundry room in a centralized location, on each floor of each barracks building. Interior of laundry rooms shall be visible from the corridor through glazed picture windows. Picture window glazing shall be laminated glass. Design-Build Contractor may propose an alternate solution that

will provide visual monitoring of the laundry room in-lieu of using ~~a~~ picture windows. Laundry room entry shall provide a clear opening 36 inches wide minimum. Size self-serve laundry facilities to accommodate a combined total of no fewer than one commercial washer per 12 residents on each floor and one commercial dryer per 8 residents on each floor. Washers and dryers are GFGI. Fixed heavy gauge stainless steel clothes folding/hanging tables, stainless steel utility sinks and laundry supplies vending area are required features of centralized laundry facilities. Each fixed heavy gauge stainless steel clothes folding/hanging table shall be 2'-0" deep by 5'-0" wide. Provide one fixed heavy gauge stainless steel clothes folding/hanging table per 48 residents on each floor. Provide power receptacles for washers, dryers and laundry supplies vending machines. Provide a minimum of one convenience duplex power receptacle on each wall. Provide water and drain connections for all washers. Provide individual vent connections for all dryers. Locate laundry rooms on exterior wall so that dryer exhaust can be vented directly to the exterior. ***</UEPH_LAUNDRY_CENTRAL>***"

3. Para 3.4.4.7.(b) – Revise paragraph to read "Insulated Metal Doors: Comply with applicable codes and criteria. Doors shall be minimum Level 3, physical performance Level, Model 2; factory primed. Provide insulated metal doors at utility rooms, janitor closets, module entry (if solid core insulated hollow metal door is required), and stairwell doors."

4. Para 3.4.4.8. – Revise paragraph to read "Window Treatment: Provide horizontal mini blinds at all exterior windows. Uniformity of window covering color and material shall be maintained to the maximum extent possible throughout each building. Blinds in barracks bedrooms shall be room darkening mini blinds. Window stools shall be minimum ½ inch thick cast 100 percent acrylic polymer solid surfacing material. ~~Uniformity of window covering color and material shall be maintained throughout each building.~~"

5. Para 3.4.4.10.(a) – Re-number sub-paragraph to read "

   (d) Public Toilets (IF REQUIRED BY THE RFP): Toilet accessories shall conform to the requirements of the ADA and shall include, but are not limited to the following:

   (1) Glass mirrors on stainless steel frame and shelf – at each lavatory

   (2) Liquid soap dispenser – at each lavatory

   (3) Combination recessed mounted paper-towel dispenser/waste receptacle

   (4) Sanitary napkin disposal at each female\unisex toilet

   (5) Recessed mounted lockable double toilet paper holder – at each water closet.

   (6) Sanitary toilet seat cover dispenser – a minimum of one per toilet room

   (7) Grab bars – as required by ADA"

6. Para 3.4.4.10.(b) – Re-number sub-paragraph to read "

   (e) Dwelling unit bathroom accessories shall at a minimum include:

   (1) Two heavy duty towel bars – minimum 24 inches wide each

   (2) Two recessed mounted mirrored medicine cabinets – at each lavatory. (See Section 01 10 00 Paragraph 3.2.2.3.)

   (3) Two soap dish - at tub/shower

(4) One wall mounted retractable clothesline – across tub/shower

(5) Two combination soap dish/toothbrush holder – one at each medicine cabinet

(6) Double robe hook - on inside face of bathroom door

(7) Toilet paper holder – at each water closet.

(8) Curved shower curtain rod - extra heavy duty.

(9) Shower curtain – white anti-bacterial nylon/vinyl fabric shower curtain."

7. Para 3.5.1. – Revise paragraph to read "~~Live Load shall bedesigned per the IBC but not lower than the following minimums~~ Design live loads shall be per the IBC but not lower than the following minimums.

   (a) Elevated ~~slabs~~ floors 60 pounds per square foot (psf) minimum

   (b) Slab on grade 150 psf minimum

   (c) Centralized laundry area (if required by RFP) 150 psf, (but not less than actual equipment loads)"

8. Para 3.6.1. – Revise paragraph to read "Para 3.4.4.8. – Revise paragraph to read "EPACT 2005 Requirement

   The building, including the building envelope, HVAC systems, service water heating, power, and lighting systems shall be designed to achieve an energy consumption that is at least 30% below the consumption of a baseline building meeting the minimum requirements of ANSI/ASHRAE/IESNA Standard 90.1~~-2004~~ (see paragraph 5.9 Energy Conservation)"

9. Para 3.6.2. – Revise paragraph to read "Target Energy Consumption BudgetThe target energy consumption budget (excluding plug loads) for this facility located in Climate Zone «CLIMATE_ZONE» is «UEPH_CLIMATE_ZONE_VALUE» kBTU per ft^2 per year or less. ~~The use of the Prescriptive Technology Solution Set, shown below, will result in an annual energy consumption less than or equal to the target energy budget figure.~~"

10. Para 3.6.3. – Revise paragraph to read "Prescriptive Path (Use of Technology Solution Set)

    The technology solution set shown in the table below ~~achieves~~ contributes to achievement of the above energy performance and life cycle cost effectiveness requirements for a UEPH facility in the indicated DOE climatic zone."

REV 2.17 30 September 2009

1. Para 3.2(a) – Revise paragraph to read "Elevators: Provide elevators for buildings that exceed three stories only. Provide elevator system that complies with ASME A17.1 and ASME A17.2.1 in their entirety, and additional requirements specified herein. The first elevator shall be centrally located and shall have a minimum rated load-capacity of 3500 lb (1588 kg), with center opening doors and interior dimensions sized to accommodate a fully extended Emergency Medical Services (EMS) gurney and four average size adults. Gurney size shall be based on the "STRYKER Power-PRO ~~IT~~ XT" gurney. An additional elevator as specified above shall be provided for every additional one hundred (100) persons or fraction thereof, over the first two hundred (200) ……."

2. Para 3.2.1 – Revised paragraph to read" Able-bodied soldiers occupy and manage UEPH facilities. The Americans with Disabilities Act (ADA) and Architectural Barriers Act (ABA) requirements do~~es~~ not apply to UEPH facilities, except as follows:"

3. Para 3.2.1.1 – Revised paragraph to read - "Site Plan Design and Construction:

   (f) Provide ADA/ABA compliant access from the parking lot to the building.

   (g) Provide two (2) ADA/ABA compliant vehicle parking stalls for each barracks building for visitor parking.

   (h) Provide handicapped vehicle parking signage and pavement markings."

4. Para 3.2.1.2 – Revised paragraph to read - "Facility Design and Construction:

   (a) The main building entrance on the ground level and at least one emergency egress, designed per applicable code, shall be handicapped accessible. Electronic exterior door openers with push button control are required for handicapped accessibility.

   (b) Provide ADA/ABA clearances and door accesses in the building main entry/vestibule being used by visitors.

   (c) If a lobby is required by the RFP, provide a handicapped accessible drinking fountain in the lobby.

   (d) If a lobby is required by the RFP, provide handicapped accessible public toilet(s), which may be unisex, in the lobby area.

5. Para 3.5 – Revised paragraph to read - "STRUCTURAL REQUIREMENTS

   ~~3.5.1~~ Live Load~~s: Design live loads~~ shall be designed per the IBC, but not lower than the following minimums……."

6. Para 3.7.2.2 – Revised paragraph to read – "Each dwelling unit shall be positively ventilated using dedicated outdoor air units. Dedicated outdoor air units (DOAUs) shall continuously supply dehumidified, tempered air ducted directly to each bedroom from DOAU. DOAU supply air ductwork shall not connect to dwelling unit heating/cooling unit. Supply air conditions from DOAU shall be between 68 and 75 degree F dry bulb and no greater than 48 degree F dew point. ……."

REV 2.16 31 August 2009

1. Para 3.2.2.2. – Revise paragraph to read "Kitchen: Each dwelling unit shall have a full kitchen…… Furnish and install a single bowl stainless steel kitchen sink. Provide utility connections and casework to accommodate future installation of a dishwasher. Future dishwasher space shall be furnished with a removable built-in full width shelf dividing it into two equal spaces, and a pair of removable swing doors matching the rest of the kitchen cabinetry. Provided a minimum of twelve (12) linear feet of base cabinet systems with twelve (12) linear feet of standard height counter and twelve (12) linear feet of wall cabinet systems. Twelve (12) linear feet of standard height counter includes required sink. ……..."

2. Para 3.3.3.(b) – Revise paragraph to read "Service Drives: The Contractor shall provide service drives to each building. Locate the drives in accordance with UFC 4-010-01. Restrict access to the drives, where applicable, as required by UFC 4-010-01. Design the pavements as required by paragraph 5.2.3, "VEHICLE PAVEMENTS". The minimum ~~access~~ service drive width shall be 10 feet. The

Contractor shall design and construct drives with curb and gutter when necessary for drainage purposes."

3. Para 3.4.4.10.(a) – Revise item numbering so that after Item (6) Sanitary toilet seat cover dispenser – a minimum of one per toilet room, you have Item (7) Grab bars – as required by ADA.

4. Para 3.4.4.10.(b)(2) – Delete parenthesis in second sentence so that it reads "Two recessed mounted mirrored medicine cabinets – at each lavatory. ~~(~~See Section 01 10 00 Paragraph 3.2.2.3.~~)~~"

5. Para 3.4.5.2.(c) – Revise paragraph to read "Walls: All wall finish shall be minimum 5/8" painted gypsum board, except where stated otherwise. ~~Gypsum board shall be paperless gypsum board or other manufacturer certified mold and mildew resistant gypsum board.~~ All gypsum board shall achieve a score of 10, the highest level of performance for mold resistance under the ASTM D 3273 test method. All gypsum board shall be transported, handled, stored and installed in accordance with the GYPSUM ASSOCIATION – Guidelines For Prevention Of Mold Growth On Gypsum Board (GA-238-03). Use impact resistant ~~paperless~~ gypsum board ~~or other manufacturer certified mold and mildew resistant/impact resistant gypsum board~~ in corridors, storage rooms, stairwells and activity rooms and centralized laundries (if centralized laundries are required by RFP)."

6. Para 3.4.5.2.(d). – Revise paragraph to read "All ceiling finishes shall be minimum 5/8" painted gypsum board, except where stated otherwise. ~~Gypsum board shall be paperless gypsum board or other manufacturer certified mold and mildew resistant gypsum board.~~ All gypsum board shall achieve a score of 10, the highest level of performance for mold resistance under the ASTM D 3273 test method. All gypsum board shall be transported, handled, stored and installed in accordance with the GYPSUM ASSOCIATION– Guidelines For Prevention Of Mold Growth On Gypsum Board (GA-238-03)."

7. Para 3.4.5.2 (Minimum Interior Finishes Table) – Edit remarks column at MECHANICAL row to read "SEE NOTES 5 AND 7".

8. Para 3.4.5.2 (Minimum Interior Finishes Table) – Add sentence to the end of Note 5, so that it reads "PROVIDE FLOOR DRAIN IN CENTER OF ROOM. SLOPE FLOOR TO DRAIN IN ALL ROOMS WITH FLOOR DRAIN."

9. Para 3.4.5.2 (Minimum Interior Finishes Table) – Second line of Note 6 was omitted from last update. Edit Note 6 to read "UP TO 50% OF CEILING AREA MAY BE ACOUSTICAL CEILING TILE. ALL ACOUSTICAL CEILING TILE SHALL BE INSTALLED WITH HOLD DOWN CLIPS TO PREVENT UPWARD MOVEMENT."

10. Para 3.6.3. – Replace all Prescriptive Technology Solution Tables

11. Para 3.6.3. – At the end of the tables, edit notes header to read "**Notes ~~(#)~~for Prescriptive Technology Solution Table:**"

12. Para 3.6.3 – **Notes for Prescriptive Technology Solution Table:** - Edit Note (4)(a) to read "~~o~~Outside air for building indoor air quality and humidity control"

13. Para 3.6.3 – **Notes for Prescriptive Technology Solution Table:** - Edit Note (4)(b) to read "~~m~~Make-up air for bathroom and kitchen exhausts"

14. Para 3.6.4 – Revise paragraph to read “Compliance Path

    When the “Compliance Path” is selected, the facility design shall include a uniquely developed technology solution set which can be shown by the design analysis (using facility energy simulation software) not to exceed the target energy consumption budget stated in ~~3.3.2~~ 3.6.2 above and meet all the criteria in the DOE interim final rule: “Energy Conservation Standards for New Federal Commercial

REV 2.15 31 July 2009

1. Para 3.2.2.1 – Revise paragraph to read “Bedrooms: Each dwelling unit shall have two bedrooms, each with a minimum net area of 140 square feet and a maximum net area of 183 square feet. -Bedrooms shall be equal in size and similar in configuration. Each bedroom shall have a walk-in closet directly adjacent. Each walk-in closet shall have a net area of 32 square feet, and shall be furnished with hanger rods and shelves. Closet <REV>shelf~~shelving~~</REV> shall be capable of supporting a minimum of 30 pounds per linear foot. <REV>Closet shelf shall be 15 inches deep and top of shelf shall be set at 70 inches above closet finish floor.</REV> Closet rod and bracket system shall be capable of supporting a minimum of 30 pounds per linear foot. Provide a minimum of <REV>78 linear inches~~2 linear meters (6'-7")~~</REV> of rod and shelf <REV>with no rod and shelf being less than 48 inches long</REV>. Each closet door shall have a Function (F75), Grade 1 closet latch, and be equipped with padlock eyes so the occupant can…..”

2. Para 3.2.2.2 – Revise paragraph to read “……>, with standard height base cabinet system, wall cabinet system and countertops for food storage and preparation. Provide a minimum of two 18 inches wide drawer units in the kitchen base cabinet system. Provide utility connections and casework to accommodate appliances listed above. Provide area for recyclables receptacle and kitchen waste receptacle. Furnish and install a single bowl stainless steel kitchen sink. Provide utility connections and casework to accommodate future installation of a dishwasher. Provided a minimum of twelve (12) linear feet of base cabinet systems <REV>with twelve (12) linear feet of standard counter</REV> and twelve (12) linear feet of wall cabinet systems<REV>~~, and standard height counter space~~</REV>. <REV>Twelve (12) linear feet of standard height counter includes required sink </REV>Kitchen layout shall accommodate counter space seating and dining of two people, or provide space for a 36 inch diameter dining table with two chairs outside of the kitchen area. <DISPOSER>Furnish and install a garbage disposer at the kitchen sink.</DISPOSER>”

3. Para 3.2.2.3 – Revise paragraph to read “Bathroom: Each dwelling unit shall have one full bath, with an elongated floor mounted flush tank type vitreous china water closet, porcelain enameled cast-iron or enameled steel tub/shower, fixed shower head, <REV>lavatory/</REV>vanity with storage cabinets below, two minimum 16-inches wide by 24 inches high recessed mirrored medicine cabinet, with adjustable shelves, mounted on the backwall of the vanity. Medicine cabinet construction shall be heavy gauge steel, all welded, with a powder-coated finish. Mirror shall be ¼ inch thick select float glass in a one piece ½ inch by ½ inch by ½ inch Type 304 satin finished, stainless steel frame, with mitered corners. Provide a minimum of two towel bars. <REV>Spray end of shower head shall be set at 78 inches above finish height of tub drain. </REV>Fiberglass or acrylic tub-surround units are required. <REV>~~Bathroom~~ Lavatory/</REV>vanity shall be separated from the tub/shower-water closet enclosure.”

4. Para 3.2.3.3 – Revise paragraph to read "…..Provide <REV>two(2)~~a~~</REV> 125 volt, duplex receptacle<REV>s</REV> for CQ workstation. <REV>Receptacles shall be on a dedicated circuit. </REV>Provide additional lighting over CQ station to obtain a 30-footcandle illuminance level on desk top.</CQ></LOBBY>"

5. Para 3.2.3.5 – Revise paragraph to read "…..Provide power receptacles for vending machines and ice cube machine-dispensers. Provide water and drain connections for ice cube machine-dispensers. <REV>Provide floor drain for ice cube machine-dispensers. </REV>Locate vending area in a central location that is easily monitored. Vending Machines and ice cube machine-dispenser shall be GFGI.</VENDING>"

6. Para 3.2.3.6 – Revise paragraph to read "Recyclables Storage: Provide one Recyclables Storage per building. Locate the Recyclables Storage on the first floor with access to the complex trash/recyclables dumpster area. <REV>Recyclables Storage shall be fully enclosed and ventilated. </REV>Recyclables Storage shall be sized to accommodate <REV>~~the population of the complex~~a minimum of six (6) fifty-gallon barrel sized recyclable containers, with adequate circulation space to allow access to move each container in and out of the Recyclable Storage with a dolly, without having to move the other containers</REV>."

7. Para 3.2.3.9 – Revise paragraph to read "Mail Access Area: A mail access area shall be designed and constructed as a part of this project. Mail access area shall include one USPS-approved combination lock type mailbox per resident, and a minimum of one USPS-approved two-key parcel locker <REV>~~parcel locker~~ </REV>per 40 residents. The numbering sequence shall be coordinated with the user. Mail access area shall be <MAIL_EXT>located on an exterior wall, protected….."

8. Para 3.4.1.5 – Revise paragraph to read "Key Card Access System: A Programmable Electronic Key Card Access System shall be provided on all exterior entry/egress doors, dwelling unit doors, bedroom doors and centralized laundry door<REV>s</REV> (if <REV>centralized laundries are required by RFP~~provided~~</REV>). <KEY_NO>The Installation does not have a single manufacturer established for this equipment at this time</KEY_NO><KEY_YES>Extension of the existing Installation key card access system shall be provided, the existing Installation key card access system is [BRAND]</KEY_YES>. The minimum operability requirement is a key card"

9. Para 3.4.4.4 – "Chair Rail: Chair rails shall be installed in areas prone to hi-impact use, such as corridors and lobby<REV>~~ seating area~~</REV>."

10. Para 3.4.4.7.(a) - Revise paragraph to read "Wood Doors: Provide flush solid core wood doors with Grade A hardwood face veneer for transparent finish. Stile edges shall be non-finger jointed hardwood compatible with face veneer. Provide flush solid core wood doors at doors within dwelling unit. <ENTRYDOORS_WD>Provide flush solid core wood doors at <REV>all </REV>dwelling unit entry.</ENTRYDOORS_WD><ENTRYDOORS_HM>Provide solid core insulated hollow metal doors as stated in item (b) below, with a wood grain finish at dwelling unit entry.</ENTRYDOORS_HM>"

11. Para 3.4.4.7.(c) – Revise paragraph to read "Contractor's Option – Contractors have the option to furnish knockdown frames for closet and bathroom doors in the <REV>dwelling~~apartment~~</REV> units. Continuously welded frames, with mitered corners and seamless face joints at closets and bathroom doors in the <REV>dwelling~~apartment~~</REV> units shall be considered betterments."

12. Para 3.4.5.2.(c) – Revise paragraph to read "…..Use impact resistant paperless gypsum board or other manufacturer certified mold and mildew resistant/impact resistant gypsum board in corridors, storage rooms, stairwells and activity rooms and centralized <REV>~~laundry~~laundries (if centralized laundries are required by RFP</REV>."

13. Para 3.4.5.2 (Minimum Interior Finishes Table) – Add NOTE "7. PROVIDE FLOOR DRAIN IN CENTER OF ROOM. DOES NOT APPLY TO DWELLING UNIT MECHANICAL CLOSETS." Add "SEE NOTE 7 under the "REMARKS" column at MECHANICAL row.

14. Para 3.5.1.(c) – Revise paragraph to read "Centralized laundry area<REV> (if required by RFP)</REV> 150 psf, (but not less than actual equipment loads)"

15. Para 3.6.3.(6) – Revise paragraph to read "….All design features of this EPACT 2005 compliant UEPH not described above will be in accordance with the minimum requirements of ANSI/ASHRAE/IESNA Standard 90.1-<REV>~~2004~~2007</REV>. including conformance with paragraph 5.9.2, which requires purchase of Energy Star and FEMP designated products."

16. Para 3.7.2.2 – Revise paragraph to read "….Supply quantity shall be 30 cfm per bedroom for a total of 60 cfm per dwelling unit. Dwelling unit exhaust shall be 45 cfm continuous through a bathroom exhaust. (Note: This exceeds ASHRAE 62.1 but provides compliance with IMC chapter 4 and maintains slight building positive pressurization with respect to dwelling unit exhaust rate of 45 cfm). DOAU <REV>unit shall be direct expansion (DX) type and </REV>cooling/dehumidification shall be available 24/7/365. …"

17. Para 3.8.1. – Revise paragraph to read "Interior lighting <REV>~~shall be as specified below in addition to the requirements of paragraph 5. Lighting fixtures shall utilize electronic ballasts for all areas except areas where environmental considerations prohibit the use of this type of lighting~~controls shall be provided in accordance with ASHRAE 90.1. Compact fluorescent lamps of 12 watts or less shall not be used. Electronic ballasts for linear florescent lamps shall be the high efficiency programmed start type. </REV>Provided lighting levels shall be within +/- 10% of required lighting levels."

18. Para 3.8.1.2 – Revise paragraph to read "Lighting level in laundry room(s) shall be 30 foot-candles. Lighting shall have automatic <REV>~~motion~~occupancy sensor </REV>detection switching."

19. Para 3.8.1.3. – Revise paragraph to read "Lighting level in lobbies (if required by the RFP) shall be 10 foot-candles. Lighting in common areas such as corridors and lobbies shall have automatic <REV>~~motion~~occupancy sensor </REV>detection switching. <REV>Sensors in corridors shall be wired such that only the lighting fixtures within the activation range of a particular sensor shall turn on.</REV>"

20. Para 3.8.1.4 – Revise paragraph to read "Lighting level in kitchen areas shall be 30 foot-candles with <REV>~~manual on/off/~~ automatic occupancy sensor detection </REV>switching. <REV>Switching shall be manual-ON/Automatic OFF. </REV>Counter top task lighting shall be installed under cabinets utilizing fixtures with 2-foot linear T8 fluorescent lamps with manual on/off switching. Task lighting switching shall be separate from general lighting switching."

21. Para 3.8.1.6 – Revise paragraph to read “Provide an illuminance level of 20-footcandles and automatic <REV>~~motion~~occupancy sensor </REV>detection switching to control fixture(s) in the mudroom (if mudroom is provided).

22. Para 3.8.2.2 – Revise paragraph to read “Provide a minimum of one 125 volt duplex receptacle <REV>~~in~~ on each wall within</REV>the lobby (if lobby is provided) for housekeeping purposes.”

23. Para 3.9 – Revise paragraph to read “Telecommunications outlets shall be provided per the applicable criteria based on functional purpose of the space within the building and in accordance with other provisions of this RFP. <REV>If conflict occurs between requirements of the applicable criteria and specific requirements within the RFP, the specific requirements shall govern.</REV>”

24. Para 3.9.3 – Revise paragraph to read “Provide a single 8-pin modular jack outlet <REV>for data </REV>and a single CATV jack outlet in each bedroom.”

25. Para 3.11.1.3 – Revise paragraph to read “The fire alarm system shall be designed by a registered fire protection engineer and installation shall be supervised by a National Institute for Certification of Engineering Technologies (NICET) Level 3 <REV>minumim </REV>technician.”

REV 2.14 31 May 2009

1. Para 3.2. (a) – Revise paragraph to read “Elevators: Provide elevators for buildings that exceed three stories only. Provide elevator system that complies with ASME A17.1 and ASME A17.2.1 in their entirety, and additional requirements specified herein. The first elevator shall be centrally located and shall have a minimum rated load-capacity of 3500 lb (1588 kg), with center opening doors and interior dimensions sized to accommodate a fully extended Emergency Medical Services (EMS) gurney and four average size adults. Gurney size shall be based on the “STRYKER Power-PRO IT" gurney. An additional elevator as specified above shall be provided for every additional one hundred (100) persons or fraction thereof, over the first two hundred (200) persons the building is designed to accommodate, unless a traffic analysis determines otherwise. Such traffic analysis shall be included in the Design Analysis. Elevator interior walls, ceiling, doors and fixtures shall have a satin No. 4 stainless steel finish. Floor finish shall be vinyl composition tile as specified in Paragraph 3.4.5.2. (b). All elevators shall be furnished with removable hanging protective pads and fixed hooks to facilitate conversion to use for moving freight.

   Elevator Inspector: The Elevator Inspector shall be certified in accordance with the requirements of ASME A17.1 and ASME QEI-1 and licensed in elevator inspection by the State ~~of~~ where project is located. The Certified Elevator Inspector shall inspect the installation of the elevator(s) to assure that the installation conforms with all contract requirements. The Elevator Inspector shall be directly employed by the Prime Contractor and shall be independent of the Elevator System Manufacturer and the Elevator System Installer~~; and~~. The Elevator Inspector shall witness the acceptance inspections and tests, approve all results and sign and certify the successful results. The Elevator Inspector, after completion of the acceptance inspections and tests, shall certify in writing that the installation is in accordance with the contract requirements. The Elevator Inspector shall bring any discrepancy, including any safety related deficiencies, to the attention of the Contracting Officer in writing, no later than three working days after the discrepancy is discovered.

2. Para 3.2.2.2. – Revise paragraph to read “Kitchen: Each dwelling unit shall have a full kitchen with adequate space and circulation to accommodate a GFGI full size refrigerator 28 inches wide, <RANGE>a GFGI electric oven/range 30 inches wide, with a CFCI built-in combination 30 inch wide vent hood and microwave oven, centered over the space provided for the electric range</RANGE><TWOBURNER>a CFCI built-in two-burner electric cooktop with a CFCI built-in combination vent hood and convection/microwave oven</TWOBURNER><FOURBURNER>a CFCI built-in four-burner electric cooktop with a CFCI built-in combination vent hood and convection/microwave oven</FOURBURNER>, with standard height base cabinet system, wall cabinet system and countertops for food storage and preparation. Provide a minimum of two 18 inches wide drawer units in the kitchen base cabinet system. Provide utility connections and casework to accommodate appliances listed above. Provide area for recyclables receptacle and kitchen waste receptacle. Furnish and install a single bowl stainless steel kitchen sink. Provide utility connections and casework to accommodate future installation of a dishwasher. Provided a minimum of twelve (12) linear feet of base cabinet systems and (12) linear feet of wall cabinet systems, and standard height counter space. Kitchen layout shall accommodate counter space seating and dining of two people, or provide space for a 36 inch diameter dining table with two chairs outside of the kitchen area. <DISPOSER>Furnish and install a garbage disposer at the kitchen sink.</DISPOSER>

3. Para 3.2.3.10. – Revise paragraph to read “<MUDROOM>Mudroom</MUDROOM><BOOTWASH>Boot Wash</BOOTWASH>:

   <MUDROOM>Provide an enclosed centralized location close to main building entry, with direct exterior access for soldiers to rinse mud off field gear, boots and clothing before laundering. Provide one rinsing station per 30 persons. Each rinsing station shall be furnished with a utility sink and a hosed hot and cold ~~running~~ water faucet. </MUDROOM><BOOTWASH>Provide outdoor areas for soldiers to rinse mud off field gear, boots and clothing before laundering. Provide one rinsing station per 30 persons, or a minimum of one boot wash area close to each entrance, which ever is greater. Each rinsing station shall be furnished with a pedestal mounted, hosed ~~hot and~~ cold ~~running~~ water faucet or hydrant. Faucet or hydrant shall be non-freeze type. </BOOTWASH>”

4. Para 3.4.4. – Revise paragraph heading to read “~~Building~~ Interior Design Objectives”

5. Para 3.4.4.7. (c) – Revise paragraph to read “Hollow Metal Frames: Comply with ANSI A250.8/SDI 100. Frames shall be minimum Level 3, 16 gauge, ~~with~~ and shall be continuously welded, with mitered corners and seamless face joints; factory primed.

   - ”Contractor’s Option – Contractors have the option to furnish knockdown frames for closet and bathroom doors in the apartment units. ~~Door frames with c~~Continuously welded frames, with mitered corners and seamless face joints at closets and bathroom doors in the apartment units shall be considered betterments.

6. Para 3.4.4.10. (b) (2) – Revise paragraph to read “Two recessed mounted mirrored medicine cabinets – at each lavatory. (See Section 01 10 00 Paragraph 3.2.2.3.)”

7. Para 3.4.5.2. (c) – Revise paragraph to read “Walls: All wall finish shall be minimum 5/8” painted gypsum board, except where stated otherwise. Gypsum board shall be paperless gypsum board or other manufacturer certified mold and mildew resistant gypsum board. Use impact resistant paperless gypsum board or other manufacturer certified mold and mildew resistant/impact resistant gypsum board in corridors, storage rooms, stairwells and activity rooms and centralized laundry.

8. Para 3.4.5.2. (d) – Revise paragraph to read “All ceiling finishes shall be minimum 5/8” painted gypsum board, except where stated otherwise. Gypsum board shall be paperless gypsum board or other manufacturer certified mold and mildew resistant gypsum board.

9. Para 3.4.5.2 (Minimum Interior Finishes Table) – Add NOTE 7 and reference NOTE 7 to MECHANICAL. See Attached Interior Finishes Table.

REV 2.13 30 April 2009

1. Para 3.3.3.(b) – Revise paragraph to read “Service Drives: The Contractor shall provide service drives to each building. Locate the drives in accordance with UFC 4-010-01. Restrict access to the drives, where applicable, as required by UFC 4-010-01. Design the pavements as required by paragraph 5.2.3, “VEHICLE PAVEMENTS”. The minimum access drive width shall be 10 feet. The ~~c~~Contractor shall ~~D~~design and construct drives with curb and gutter when necessary for drainage purposes.”

2. Para 3.4.3.6. – Revise paragraph to read “Provide insulated, high efficiency window systems, with thermally broken frames complying with applicable codes and criteria. Each bedroom shall have at least one exterior window. Window shall meet egress requirements of NFPA 101 and International Building Code. <OPERABLE>All bedroom windows shall be operable windows. Operable windows shall be furnished with locks, and fiberglass or aluminum insect screens removable from the inside.</OPERABLE><SEALED>All bedroom windows shall be sealed windows.</SEALED> Windows shall not open to corridor, balcony or landing. Curtain wall systems shall be capable of withstanding area wind loads, thermal and structural movement required by location and project requirements, and shall comply with applicable codes and criteria. Window sills shall be designed to discourage bird nesting.

3. Para 3.7.2.2. – Revise paragraph to read “~~Each dwelling unit shall be positively ventilated using dedicated outdoor air units. Dedicated outdoor air units shall continuously supply dehumidified, tempered air to each bedroom. Supply air conditions shall be between 70 and 75 degree F dry bulb and no greater than 51 degree F dew point. Supply quantity shall be 30 cfm per bedroom for a total of 60 cfm per dwelling unit. Dwelling unit exhaust shall be 45 cfm continuous through a bathroom exhaust. **Note:** This exceeds ASHRAE 62.1 but provides compliance with IMC chapter 4 and maintains slight building positive pressurization with respect to dwelling unit exhaust rate of 45 cfm; dedicated outdoor air unit cooling/dehumidification shall be available 24/7/365. Refer to chapter 6 for site specific constraints.~~ Each dwelling unit shall be positively ventilated using dedicated outdoor air units. Dedicated outdoor air units (DOAUs) shall continuously supply dehumidified, tempered air ducted directly to each bedroom from DOAU. Supply air conditions from DOAU shall be between 68 and 75 degree F dry bulb and no greater than 48 degree F dew point. Supply quantity shall be 30 cfm per bedroom for a total of 60 cfm per dwelling unit. Dwelling unit exhaust shall be 45 cfm continuous through a bathroom exhaust. (Note: This exceeds ASHRAE

62.1 but provides compliance with IMC chapter 4 and maintains slight building positive pressurization with respect to dwelling unit exhaust rate of 45 cfm). DOAU cooling/dehumidification shall be available 24/7/365. Refer to chapter 6 for site specific constraints. The number of exhaust fans and DOAUs shall be the same, and exhaust fans and DOAUs shall be arranged for and shall include exhaust air energy recovery. Exhaust and DOAU systems shall be provided with variable frequency drives (VFDs) and shall be provided with a control logic that provides reduced ventilation rates during periods of low interior humidity and still meet minimum ASHRAE 62.1 requirements."

REV 2.12 27 February 2009

1. Para 3.1. – Revise heading to read "GENERAL REQUIREMENTS"

2. Para 3.2. – Revise heading to read "FUNCTIONAL ~~SPACE~~ AND AREA REUIREMENTS

3. Para 3.2.(a) – Revise paragraph to read "Elevators: Provide elevators for buildings that exceed three stories only. Provide elevator system that complies with ASME A17.1 and ASME A17.2.1 in their entirety, and additional requirements specified herein. The first elevator shall be centrally located and ~~Elevators~~ shall have a minimum rated load ~~occupant~~ capacity of ~~2~~3500 lb (~~1134~~1588 kg), with center opening doors and interior dimensions sized to accommodate a fully extended Emergency Medical Services (EMS) gurney and four average size adults. Gurney size shall be based on the "STRYKER Power-PRO IT" gurney. An additional elevator as specified above shall be provided for every additional one hundred (100) persons or fraction thereof, over the first two hundred (200) persons the building is designed to accommodate, unless a traffic analysis determines otherwise. Such traffic analysis shall be included in the Design Analysis. Elevator interior walls, ceiling, doors and fixtures shall have a satin No. 4 stainless steel finish. Floor finish shall be vinyl composition tile as specified in Paragraph 3.4.5.2.(b). All elevators shall be furnished with removable hanging protective pads and fixed hooks to facilitate conversion to use for moving freight.

   Elevator Inspector: The Elevator Inspector shall be certified in accordance with the requirements of ASME A17.1 and ASME QEI-1 and licensed in elevator inspection by the State of where project is located. The Certified Elevator Inspector shall inspect the installation of the elevator(s) to assure that the installation conforms with all contract requirements. The Elevator Inspector shall be directly employed by the Prime Contractor and shall be independent of the Elevator System Manufacturer and the Elevator System Installer; and witness the acceptance inspections and tests, approve all results and sign and certify the successful results. The Elevator Inspector, after completion of the acceptance inspections and tests, shall certify in writing that the installation is in accordance with the contract requirements. The Elevator Inspector shall bring any discrepancy, including any safety related deficiencies, to the attention of the Contracting Officer in writing, no later than three working days after the discrepancy is discovered.

4. Para 3.2.2.2. – Add a space between "table" and "with" in the second to last sentence.

5. Para 3.2.2.3. – Revise paragraph to read "Bathroom: Each dwelling unit shall have one full bath, with an elongated floor mounted flush tank type vitreous china water closet, porcelain enameled cast-iron or enameled steel tub/shower, fixed shower head, vanity with storage cabinets below, two minimum 16-inches wide by 24 inches high recessed mirrored medicine cabinet, with adjustable shelves, mounted

on the backwall of the vanity. Medicine cabinet construction shall be heavy gauge steel, all welded, with a powder-coated finish. Mirror shall be ¼ inch thick select float glass in a one piece ½ inch by ½ inch by ½ inch Type 304 satin finished, stainless steel frame, with mitered corners. Provide a minimum of two towel bars. Fiberglass or acrylic tub-surround units are required. Bathroom vanity shall be separated from the tub/shower-water closet enclosure."

6. Para 3.2.3.4 – Revise paragraph to read: "Centralized Laundry: Locate a minimum of one laundry room in a centralized location, on each floor of each barracks building. Interior of laundry rooms shall be visible from the corridor through glazed picture windows. Picture window glazing shall be laminated glass. Design-Build Contractor may propose an alternate solution that will provide visual monitoring of the laundry room in-lieu of using a picture window. Laundry room entry shall provide a clear opening 36 inches wide minimum. Size self-serve laundry facilities to accommodate a combined total of no fewer than one commercial washer per 12 residents on each floor and one commercial dryer per 8 residents on each floor. Washers and dryers are GFGI. Fixed heavy gauge stainless steel clothes folding/hanging tables, stainless steel utility sinks and laundry supplies vending area are required features of centralized laundry facilities. Each fixed heavy gauge stainless steel clothes folding/hanging table shall be 2'-0" deep by 5'-0" wide. Provide one fixed heavy gauge stainless steel clothes folding/hanging table per 48 residents on each floor. Provide power receptacles for washers, dryers and laundry supplies vending machines. Provide a minimum of one convenience duplex power receptacle on each wall. Provide water and drain connections for all washers. Provide individual vent connections for all dryers. Locate laundry rooms on exterior wall so that dryer exhaust can be vented directly to the exterior."

7. Para 3.3.2. – Revise paragraph to read "Dumpster Area: The Contractor shall locate, design, and construct the dumpster enclosure area(s) and screening. Dumpster screening shall be aesthetically and architecturally compatible with the building it serves and shall be designed in accordance with the Installation's guidelines. Locate the dumpster areas in accordance with UFC 4-010-01 "DoD Minimum Antiterrorism Standards for Buildings". Position the GFGI dumpsters outside of restricted areas to allow for servicing activities. ~~Size dumpster pads to accommodate <TRASH_DUMP>trash dumpsters only. No recycling dumpsters are required.</TRASH_DUMP> <RECYC_DUMP>both trash and recycling dumpsters.</RECYC_DUMP> Dumpster screening shall be aesthetically and architecturally compatible with the building it serves and shall be designed in accordance with the Installation's guidelines. There shall be a minimum of one (1) dumpster for every 36 soldiers.~~"

8. Para 3.3.3.(b) – Revise paragraph to read "Service Drives: The Contractor shall provide service drives to each building. Locate the drives in accordance with UFC 4-010-01. Restrict access to the drives, where applicable, as required by UFC 4-010-01. Design the pavements as required by paragraph 5.2.3, "VEHICLE PAVEMENTS". The minimum access drive width shall be 10 feet. The contractor shall design ~~Design~~ and construct drives with curb and gutter when necessary for drainage purposes."

9. Para 3.4.1.2. – Revise paragraph to read "Finish Hardware: All hardware shall be consistent and shall conform to ANSI/BMHA standards for Grade 1. All requirements for hardware keying shall be coordinated with the Contracting Officer. Extension of the existing Installation keying system shall be provided, the Installation keying system is [KEYING]. Cores shall have not less than seven pins; cylinders shall have key-removable type cores. Disassembly of knob or lockset shall not be required to remove core from lockset. Locksets for mechanical,

electrical and communications rooms only shall be keyed to the existing Installation Master Keying System. HVAC terminal units that are accessed from a central corridor shall have a deadbolt to minimize protrusion into corridor. Plastic cores are unacceptable. Provide closers for all exterior doors, all doors opening to corridors and as required by codes. Exit devices shall be installed on all building egress doors.

10. Para 3.4.4.1. – Revise paragraph to read “Room signage shall conform to the Housing Automated Management System, (HOMES4). At each dwelling unit, provide two (one on each side of entry door) dwelling unit/room number and changeable two-line message strip signage. Dwelling units ~~and~~ shall be sequentially numbered. For example, the first unit on the first floor shall be “101”, first unit on the second floor shall be “201”. Rooms shall be designated using the letters “A and B”. The room designation is determined by standing in the corridor facing the entry door of the dwelling unit, the bedroom on the left is “A” and the one on the right is “B”. The complete dwelling unit/room numbering shall be as in this example, first unit on the second floor “201A and 201B”. Changeable message strip signs shall be of same construction as standard room signs to include a clear sleeve that will accept a paper or plastic insert with identifying changeable text. The insert shall be prepared typeset message photographically enlarged to size and mounted on paper card stock.”

11. Para 3.4.4.5. – Revise paragraph to read “Casework: Provide cabinets complying with AWI Quality Standards. Countertops shall have waterfall front edge. ~~and~~ Bathroom, kitchen and public toilet countertops shall have integral coved backsplash. Bathroom and public toilet (if required by RFP) vanity countertop shall be minimum ½ inch thick cast 100 percent acrylic polymer solid surfacing material with waterfall front edge and integral coved backsplash.

12. Para 3.6.3. - Prescriptive Path (Use of Technology Solution Set) - Delete Note #1 "~~Baseline requirements are from ANSI/ASHRAE/IESNA Standard 90.1-2004"~~ and replace with "NOT USED".

13. Para 3.6.4.1. Revise paragraph to read “If a unique technology solution set method of compliance is chosen then the following facility schedules must be used in all facility energy simulations for purposes of showing compliance with 3.6.4. Additionally, for simulation of a baseline building model, the “baseline values” for each component ~~shown in the “Prescriptive Technology Solution Table” shall be used~~ shall be as per ASHRAE Standard 90.1-2004 Building Envelope Requirements table for applicable climate zone and residential construction.”

14. Para 3.8.1.1. – Revise paragraph to read “Lighting level in bedrooms shall be ~~5~~ 15 foot-candles. Lighting shall utilize fixtures with compact fluorescent lamps with manual on/off switching.”

15. Para 3.9. – Revise paragraph to read “~~Telecommunications design must be performed and stamped by a Registered Communications Distribution Designer (RCDD) with 2 yrs related experience or person with 5 yrs related experience. The information systems designer must prepare the test plan, and witness and certify the testing of telecommunications cabling. In the <REV>UFC 3-580-01 </REV>Telecommunications Bldg Cabling Systems Planning/Design , the word “shall” shall be substituted for the word “should” throughout the document.~~ Telecommunications outlets shall be provided per the applicable criteria based on functional purpose of the space within the building and in accordance with other provisions of this RFP.”

16. Para 3.9.1. – Delete this paragraph and re-number subsequent paragraph as necessary.

17. Para 3.9.2. – Delete this paragraph and re-number subsequent paragraph as necessary.

18. Current Para 3.9.4. New Para 3.9.2. – Revise paragraph to read "~~In addition to the cable tray requirements in UFC 3-580-01 Telecommunications Bldg Cabling Systems Planning/Design,~~ A cable tray shall be installed around the entire perimeter of all telecommunications rooms."

19. Current Para 3.9.5. – Delete this paragraph and re-number subsequent paragraph as necessary.

20. Current Para 3.9.6. – Delete this paragraph and re-number subsequent paragraph as necessary.

21. Current Para 3.9.7. – Delete this paragraph and re-number subsequent paragraph as necessary.

22. Current Para 3.10. – Revise this paragraph to read "All CATV outlet boxes, connectors, cabling, and cabinets shall conform to ~~UFC 3-580-01 Telecommunications Bldg Cabling Systems Planning/Design~~ applicable criteria unless noted otherwise. All horizontal cabling shall be homerun from the CATV outlet to the nearest telecommunications room. See paragraph 6 for additional requirements."

REV 2.11 30 January 2009

1. Para 3.2.(b).(1) – Revise paragraph to read "Area calculated as half space: Gross building area shall be calculated in accordance with Appendix Q, with the following exceptions in accordance with TI 800-01 Design Criteria – Appendix B, UEPH:

   (i) All stairs and elevator shafts count as half space for each floor they serve.

   (ii) Interior public corridors/breezeways will be calculated as half space.

   ~~area includes one-half the area of exterior covered areas such as balconies, entries, loading platforms, breezeways, exterior corridors, and porches. Exterior covered areas are measured from the face of the enclosure wall to the edge of the covered area served. All stairs and elevator shafts count as half space for each floor they serve. Interior public corridors/breezeways will be calculated as half space.~~

2. Para 3.2.(b).(3) – Revise paragraph to read "Gross area limitations: Maximum authorized gross building area~~s~~ for each facility is ~~are~~ included in this paragraph. Proposals that exceed authorized gross area limitations may be considered non-conforming."

3. Para 3.2.(c) – Revise paragraph to read "Net area definition: Net area is measured to the inside face of the room or space finish walls."

4. Para 3.2.3.12. – Revise paragraph to read "Vestibule: Provide an enclosed transition space between the exterior and the lobby or building interior. Provide a minimum of 7 feet clearance between interior and exterior doors."

5. Para 3.4.3.2.(a) - Revise paragraph to read “Roof Mounted Equipment: For roof mounted equipment, provide permanent access walkways and platforms to protect roof. Roof mounted equipment on pitched roof systems is unacceptable. Roof mounted equipment on membrane roof systems shall be completely screened by the roof parapet.”

6. Para 3.4.4.6. – Revise paragraph to read “Fire Extinguisher Cabinets and Fire Extinguisher Mounting Brackets: Furnish and install fire extinguisher cabinets and fire extinguisher mounting brackets as required by applicable codes and criteria. Furnish a list of installed fire extinguisher cabinets and mounting brackets (including location, size and type) to the Contracting Office Representative.

7. Para 3.4.4.10.(b).(3) – Revise paragraph to read “Two soap dish - at tub/shower”

8. Para 3.4.5.2. – Minimum Interior Finishes Table – Replace existing table with the Minimum Interior Finishes Table attached.

9. Para 3.7.2.1. – Revise paragraph to read “All room/dwelling unit HVAC units shall be located in equipment closets accessible only through a corridor access door with keyed deadbolt. Corridor HVAC access doors shall be sized for ease of service and maintenance of HVAC units. Access for maintenance shall not require entry into the dwelling unit. Air filters shall be located in the equipment closet.”

10. Para 3.8.1. – Revise paragraph to read “Interior lighting shall be as specified below in addition to the requirements of paragraph 5. Lighting fixtures shall utilize electronic ballasts for all areas except areas where environmental considerations prohibit the use of this type of lighting. Provided lighting levels shall be within +/- 10% of required lighting levels.”

11. Para 3.8.1.1. – Revise paragraph to read “Lighting level in bedrooms shall be 5 foot-candles. Lighting shall utilize compact fluorescent fixtures with manual on/off switching.”

12. Para 3.8.1.5. – Delete Paragraph and re-number subsequent paragraphs accordingly.

13. Para 3.8.2.4. – Revise paragraph to read “Provide a minimum of two 125 volt duplex receptacles in mechanical rooms in addition to those required by NFPA 70. This requirement does not apply to the small mechanical rooms used for individual dwelling units. In addition, provide a minimum of one 125 volt duplex receptacle in each electrical room.”

14. Para 3.9. – Revise paragraph to read “Telecommunications design must be performed and stamped by a Registered Communications Distribution Designer (RCDD) with 2 yrs related experience or person with 5 yrs related experience. The information systems designer must prepare the test plan, and witness and certify the testing of telecommunications cabling. In the UFC 3-580-01 Telecommunications Bldg Cabling Systems Planning/Design, the word “shall” shall be substituted for the word “should” throughout the document.”

REV 2.10 31 December 2008

1. Para 3.2.(a) – Revise sub-paragraph to read “Provide elevators for buildings that exceed three stories only. Elevators shall have a minimum occupant capacity of 2500 lb (1134 kg), with center opening doors and interior dimensions sized to accommodate a fully extended Emergency Medical Services (EMS) gurney and

four average size adults. Gurney size shall be based on the “STRYKER Power-PRO IT" gurney.”

2. Para 3.2.2.1. – Revise paragraph to read “Bedrooms: Each dwelling unit shall have two bedrooms, each with a minimum net area of 140 square feet and a maximum net area of 183 square feet. Bedrooms shall be equal in size and similar in configuration. Each bedroom shall have a walk-in closet directly adjacent. Each walk-in closet shall have a net area of 32 square feet, and shall be furnished with ~~wood~~ hanger rods and ~~wood~~ shelves. Closet shelving shall be capable of supporting a minimum of 30 pounds per linear foot. Closet rod and bracket system shall be capable of supporting a minimum of 30 pounds per linear foot. Provide a minimum of 2 linear meters (6'-7") of rod and shelf. Each closet door shall have a Function (F75), Grade 1 ~~lockset~~ closet latch, and be equipped with padlock eyes so the occupant can provide his/her own padlock. One padlock eye shall be mortised into and screw attached flush with door edge on the ~~lock~~ latch side of the door and the second padlock eye shall be mortised and welded flush into the inside face of the door frame jamb. Padlock eye shall be fabricated to accommodate padlock shackle up to 1/4" diameter. Padlock eye color shall match door frame color. Locate padlock eye at between 4’-6”’ and 5’-6” AFF. Location of padlock eyes shall be at the same height in all modules. Each closet door shall have a Type 304 satin finished, stainless steel, robe hook mounted on the closet side of the door. Each closet door shall have a 16 inches wide by 70 inches high by ¼ inch thick, select float glass, full length mirror, in a one piece ½ inch by ½ inch by ½ inch Type 304 satin finished, stainless steel frame, with mitered corners, mounted on the bedroom side of the door. Bottom of mirror shall be located at 6 inches above finish floor. Bedroom shall be able to accommodate the following furniture with adequate circulation for one occupant:

3. Para 3.2.2.2. – Revise paragraph to read “Kitchen: Each dwelling unit shall have a full kitchen with adequate space and circulation to accommodate a GFGI full size refrigerator 28 inches wide, <RANGE>a GFGI electric oven/range 30 inches wide, with a CFCI built-in combination 30 inch wide vent hood and microwave oven, centered over the space provided for the electric range</RANGE><TWOBURNER>a CFCI built-in two-burner electric cooktop with a CFCI built-in combination vent hood and convection/microwave oven</TWOBURNER><FOURBURNER>a CFCI built-in four-burner electric cooktop with a CFCI built-in combination vent hood and convection/microwave oven</FOURBURNER>, ~~and~~ with standard height base cabinet system, wall cabinet~~s~~ system and countertops for food storage and preparation. Provide a minimum of two 18 inches wide drawer units in the kitchen base cabinet system. Provide utility connections and casework to accommodate appliances listed above. Provide area for recyclables receptacle and kitchen waste receptacle. Furnish and install a single bowl stainless steel kitchen sink. Provide utility connections and casework to accommodate future installation of a dishwasher. Provided a minimum of twelve (12) linear feet of base and wall cabinet systems, and standard height counter space. Kitchen layout shall accommodate ~~C~~counter space ~~shall accommodate~~ seating and dining of two people, or provide space for a ~~33~~ 36 inch diameter dining table with two chairs outside of the kitchen area. <DISPOSER>Furnish and install a garbage disposer at the kitchen sink.</DISPOSER>”

4. Revised reference to 3.1.2 to 3.2.1 in Paragraph 3.2.3.1

5. Para 3.2.3.4. – Revise paragraph to read “<LAUNDRY_DWELL>Not Used</LAUNDRY_DWELL><LAUNDRY_CENTRAL>Centralized Laundry: Locate a minimum of one laundry room in a centralized location, on each floor of each

barracks building. Interior of laundry rooms shall be visible from the corridor through glazed picture windows. Picture window glazing shall be laminated glass. Design-Build Contractor may propose an alternate solution that will provide visual monitoring of the laundry room in-lieu of using a picture window. Laundry room entry shall provide a clear opening 36 inches wide minimum. Size self-serve laundry facilities to accommodate a combined total of no fewer than one commercial washer per 12 residents on each floor and one commercial dryer per 8 residents on each floor. Fixed heavy gauge stainless steel clothes folding/hanging tables, stainless steel utility sinks and laundry supplies vending area are required features of centralized laundry facilities. Each fixed heavy gauge stainless steel clothes folding/hanging table shall be 2'-0" deep by 5'-0" wide. Provide one fixed heavy gauge stainless steel clothes folding/hanging table per 48 residents on each floor. Provide power receptacles for washers, dryers and laundry supplies vending machines. Provide a minimum of one convenience duplex power receptacle on each wall. Provide water and drain connections for all washers. Provide individual vent connections for all dryers. Locate laundry rooms on exterior wall so that dryer exhaust can be vented directly to the exterior.</LAUNDRY_CENTRAL>."

6. Para 3.2.3.5. - Revise paragraph to read "<VENDING_NOT>Not Used</VENDING_NOT><VENDING>Vending Area: ~~Provide vending areas distributed throughout the complex.~~ Provide a minimum of one vending area on the ground floor of each barracks building. Provide additional ventilation/exhaust to maintain vending areas temperature at levels specified for corridors. Each Vending Area shall be sized to accommodate one ice cube machine-dispenser designed for hotel type ice bucket filling, capable of producing minimum 250 pounds of regular ice cubes in 24 hours, with 180 pound storage capacity, and one full-size vending machine per 80 – 100 residents, or space for a minimum of three full-size vending machines, which ever is greater. Provide power receptacles for vending machines and ice cube machine-dispensers. Provide water and drain connections for ice cube machine-dispensers. Locate vending area in a central location that is easily monitored. Vending Machines and ice cube machine-dispenser shall be GFGI.</VENDING>".

7. Added "Room signage shall conform to the Housing Automated Management System, (HOMES4)." to the beginning of Para 3.4.4.1

8. Deleted Para 3.5.1 (c)

9. Added "Dryer exhaust vent exterior terminations shall be located no closer than 15 feet from dwelling unit bedroom windows." to the end of Paragraph 3.7.1.3

10. Added a new Paragraph 3.8.1.9. Provide compact fluorescent light fixture with manual switching in each walk-in closet.

11. Revised finish schedule to require a minimum ceiling height of 9'-0" in the Telecommunications Room, and referenced paragraph in Note 2 to read 3.2.2.3.

REV 2.9 30 September 2008

1. Para 3.1. – Revise paragraph title to read "GENERAL"

2. Para 3.1.1. – Delete this sub-paragraph number and title.

3. Para 3.1.2 – Delete this paragraph from current location. Add a new "Paragraph 3.2.1. ACCESSIBILITY REQUIREMENTS" at location shown.

4. Para 3.1.3. – Delete this paragraph from current location, move to a new location and renumber as “Paragraph 3.2.”

5. Para 3.1.3.1./New 3.2.(a) – Delete this paragraph number. Delete last two sentences. Add a new numbered item “(a)” for elevator requirements.

6. Para 3.1.3.2./New 3.2.(b) – Delete this paragraph number, add new sub-paragraph number “(b)”.

7. Para 3.1.3.2.(a)/New 3.2.(b)(1) – Change sub-paragraph number to “(1)”, and add apostrophe at the end of the first sentence. Delete last sentence.

8. Para 3.1.3.2.(b)/New 3.2.(b)(2) – Change sub-paragraph number to “(2)”

9. Para 3.1.3.2.(c)/New 3.2.(b)(3) –Change sub-paragraph number to “(3)” and edit first sentence to replace “areas” with “area” and “are” with “is”.

10. Para 3.1.3.3./New 3.2.(c) – Change paragraph number to “(c)”. Revise sentence to read, “Net area is measured to the inside face of the room or space finish walls.”

11. Para 3.2.(d) – Create a new sub-paragraph “3.2.(d)”.

12. Para 3.2.1. – New location of old Paragraph 3.1.2. in item #3 above.

13. Para 3.1.4./New 3.2.2. – Renumber this paragraph as “Paragraph 3.2.2.” and renumber all associated sub-paragraphs.

14. Para 3.1.4.1./New 3.2.2.1. – Delete second sentence. Add requirement for robe hook and full length mirror to be mounted on each closet door, as shown. Delete last five lines. Add new bulleted furniture requirements.

15. Para 3.1.4.2./New 3.2.2.2. – Change size of required drawer units from 12 inches to 18 inches. Delete current requirement for garbage disposal. Add new requirement for garbage disposal with a toggle to make it optional.

    NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

16. Para 3.1.4.3./New 3.2.2.3. – Modify requirement for tub/shower unit to read “…. porcelain enameled cast-iron or enameled steel tub, shower head, vanity with ….”. Modify requirement for medicine cabinet from one full size recessed mirrored cabinet, to two minimum 16 inches by 24 inches recessed mirrored cabinets, and edit requirement for towel bars. Change requirement for “Seamless fiberglass or acrylic tub-surround” to “Fiberglass or acrylic tub-surround”.

17. Para 3.1.4.4 – New Paragraph 3.2.2.4.

18. Para 3.1.5 – Renumber this paragraph as “Paragraph 3.2.3.” and renumber all associated sub-paragraphs.

19. Para 3.1.5.1./New 3.2.3.1 – Delete last sentence.

20. Para 3.1.5.3./New 3.2.3.3. – Edit second to last sentence to read “Provide a 125 volt, duplex receptacle for CQ workstation.”

21. Para 3.1.5.4. – Delete this paragraph.

22. Para 3.1.5.5./New 3.2.3.4 – Re-number paragraphs 3.1.5.5. through 3.1.5.13. in light of previous Item above.

23. Para 3.1.5.5. /New 3.2.3.4. – Revise first sentence to read “Locate a minimum of one laundry room in a centralized location, on each floor of each barracks building.” Delete last sentence “IF DRYER VENTS ARE……”

24. Para 3.1.5.9. /New 3.2.3.8. – Third sentence, change “bedrooms” to “dwelling units”. Delete second and third to the last sentences.

25. Para 3.1.5.10. /New 3.2.3.9. – Revise last sentence in mail kiosk option to read “Mail kiosk shall be protected from the elements and shall be architecturally compatible with the associated barracks building.”

26. Para 3.1.5.11. /New 3.2.3.10. – Delete last sentence under the mudroom option.

27. Para 3.1.5.13. /New 3.2.3.12. – Last sentence, Change the number “6” to “7”.

28. Para 3.3 – Add a new “Paragraph 3.3. SITE REQUIREMENTS” as shown and renumber all subsequent paragraphs, sub-paragraphs, etc.

29. Para 3.2.1.2./New 3.4.1.2. – Revise last sentence to read “Exit devices shall be installed on all building egress doors.”

30. Para 3.2.3.1. /New 3.4.3.1. - Add “Masonry units (brick / cmu) shall be tested for efflorescence. Efflorescence testing shall conform to the provisions of ASTM C 67. All exposed masonry (brick / cmu) shall be sealed. Sealant application shall be in accordance with sealant manufacturer’s specifications.” to the end of this paragraph.

31. Para 3.2.3.2./New 3.4.3.2. – Revise paragraph title to read “Roof System”. Add “Structural standing seam metal roofs shall comply …….. Roof system shall comply with applicable criteria for fire rating.” after the second sentence. Change sub-numbers “1” and “2” to “(a)” and “(b)” Delete sub-item #3.

32. Para 3.2.3.5. 1./New 3.4.3.5.a. – Change sub-number “1” to “(a)”. Delete “comply with wind-load requirements of applicable codes and criteria” from last sentence and add “be capable of withstanding area wind loads, thermal and structural movement required by location and project requirements, and shall comply with applicable codes and criteria”.

33. Para 3.2.3.5. 2. /New 3.4.3.5.b. – Change sub-number “2” to “(b)”. Edit third sentence to read “Doors shall be minimum Level 3, physical performance Level A, Model 2; A60 galvannealed.”

34. Para 3.2.4.1./New 3.4.4.1. – Edit this paragraph to clarify the room numbering requirements.

35. Para 3.2.4.6. /New 3.4.4.6. – Modify requirement for fire extinguisher cabinets and fire extinguishers.

36. Para 3.2.4.7.(a) /New 3.4.4.7.(a) – Change “apartment units” to “dwelling units” at two locations in this paragraph. Revise second sentence to read “Provide flush solid core wood doors at doors within dwelling unit.” Add new dwelling unit entry door requirements “<Dwelling Unit Entry Doors-WD>Provide flush solid core wood

doors at dwelling unit entry.</ Dwelling Unit Entry Doors-WD><Dwelling Unit Entry Doors-HM>Provide solid core insulated hollow metal doors as stated in item (b) below, with a wood grain finish at dwelling unit entry.</ Dwelling Unit Entry Doors-HM>", with toggle to provide choice of either wood doors or hollow metal doors at dwelling unit entry.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

37. Para 3.2.4.7.(b)/New 3.4.4.7.(b) – Add "Insulated" to beginning of sub-paragraph title. Revise second and third sentences to read "Doors shall be minimum Level 3, physical performance Level A, Model 2; factory primed. Provide insulated hollow metal doors at utility rooms, janitor closets, and stairwell doors."

38. Para 3.2.4.7.(c)/New 3.4.4.7.(c) – Edit second sentence to read "Frames shall be minimum Level 3, 16 gauge, with continuously welded mitered corners and seamless face joints; factory primed.

39. Para 3.2.4.7.(c)(1)/New 3.4.4.7.(c) – Delete the numbered sub-paragraph (1), and replace with a bulleted sub-paragraph.

40. Para 3.4.4.7(f) – Add a new sub-paragraph 3.4.4.7.(f) "Each dwelling unit entry door shall be furnished with a brass peep hole door viewer with a viewing angle of 200 degrees minimum."

41. Para 3.4.4.9. – Add a new Paragraph 3.4.4.9. "Mold and Mildew Mitigation: "The Designer of Record shall provide details in the design analysis and design showing steps taken to mitigate the growth of mold and mildew in the facility."

42. Para 3.2.4.9. – Re-number the previous Para 3.2.4.9. Toilet Accessories to 3.4.4.10. Toilet Accessories.

43. Para 3.4.4.10.(a)(4) – Change "……. female toilet" to "……. female\unisex toilet".

44. Para 3.4.4.10.(b)(2) – Add "Two" to the beginning of the sentence, and change "cabinet" to "cabinets".

45. Para 3.4.4.10.(b)(5) – Edit sentence to read "Two combination soap dish/toothbrush holder – one at each medicine cabinet".

46. Para 3.2.5. /New 3.4.5. – Add the sentence "Designers are not limited to the minimum finishes listed in this paragraph and are encouraged to offer higher quality finishes."

47. Para 3.2.5.1./New 3.4.5.1. - Revise "Paint" to "Minimum Paint Finish Requirements".

48. Para 3.2.5.2./New 3.4.5.2. – Revise "Minimum Interior Finishes" to "Minimum Interior Finish Requirements"

49. Para 3.2.5.2.(a) /New 3.4.5.2.(a) – Delete this Sub-paragraph and re-number the remaining Sub-paragraphs.

50. Para 3.2.5.2.(e) /New 3.4.5.2.(d) – Delete "and mold resistant" at the end of second sentence and add "gypsum board".

51. Para 3.2.5.2. – Replace MINIMUM INTERIOR FINISHES table and notes with the attached table and notes.

52. Para 3.3. /New 3.5. – Add new sub-paragraph 3.5.1. “Live Loads: ……..”

53. Para 3.4.3./New 3.6.3. - Delete words in parentheses at end of Note 4(a) that start with (The amount needed…..).

54. Para 3.5.1.1/New 3.7.1.1. - In first sentence, revise 105 F to 110 F. Add the following to end of paragraph: “Waste stacks, building waste drains, and lift stations (if required) shall be sized with consideration of increased flow rates as well. Shower heads and lavatory faucets shall be water conservation type with maximum flow rate not to exceed 2.0 gpm.”

55. Para 3.5.2.1. /New 3.7.2.1. - Revise last sentence to “Air filters shall be located in the equipment closet.” Delete radio button.

56. Para 3.5.2.4. /New 3.7.2.4. - Delete paragraph and replace with the following: “Dwelling unit room temperature control shall be through the direct digital control (DDC) system. Each dwelling unit shall have a heating/cooling unit with thermostat/temperature control sensor located in common area. Occupant control will include fan selection (on/off) and an occupant temperature setpoint adjustment mechanism that allows +/- 2 deg F of adjustment from the DDC programmed set points (70 deg F heating, 75 deg F cooling). Additionally, the DDC controls shall monitor each dwelling unit for sub-cooling. The DDC system shall record an alarm event if the space temperature drops below 71 degree F (adjustable) when the outside air is greater than 85 degree F (adjustable). Occupant control shall also include ability to select heating or cooling mode. HVAC system shall be able to provide for year round heating or cooling in individual dwelling units as selected by the occupants.”

57. Para 3.6.1.4. /New 3.8.1.4. – Delete second sentence and add the following to the first sentence “with manual on/off switching.” Also add the sentence at the end of the paragraph “Task lighting switching shall be separate from general lighting switching.”

58. Para 3.8.1.7. – Add new Para 3.8.1.7. “Provide an illuminance level of 20-footcandles and automatic motion detection switching to control fixture(s) in the mudroom (if mudroom is provided).”

59. Para 3.8.1.8. – Add new Para 3.8.1.8. “Provide a minimum illuminance level of 5-footcandles for the mail kiosk (if mail kiosk is provided).”

60. Para 3.6.2./New 3.8.2. – Delete second sentence.

61. Para 3.8.2.1. – Add a new Para 3.8.2.1. “In addition to the requirements of NFPA 70 for dwelling units, a duplex receptacle shall be mounted adjacent to the CATV outlet.”

62. Para 3.8.2.2. – Add a new Para 3.8.2.2. “Provide a minimum of one 125 volt duplex receptacle in the lobby (if lobby is provided) for housekeeping purposes.”

63. Para 3.8.2.3. – Add a new Para 3.8.2.3. “Provide a minimum of one 125 volt duplex receptacle per corridor for housekeeping. No point along a corridor wall at 18” above finished floor shall be more than 25 feet from a receptacle.”

64. Para 3.8.2.4. Add a new Para 3.8.2.4. “Provide a minimum of two 125 volt duplex receptacles in mechanical rooms in addition to those required by NFPA 70. This requirement does not apply to the small mechanical closets used for individual dwelling units. In addition, provide a minimum of one 125 volt duplex receptacle in each electrical room.”

65. Para 3.7./New 3.9 – Edit second to last sentence to read “In the UFC 3-580-01 Telecommunications Bldg Cabling Systems Planning/Design, the word “shall” shall be substituted for the word “should” throughout the document.” Delete last sentence.

66. Para 3.7.1./New 3.9.1. - Revise second sentence to read “Cabling infrastructure shall be as shown in Figures 1 thru 4 of UFC 3-580-01 Telecommunications Bldg Cabling Systems Planning/Design.

67. Para 3.7.4./New 3.9.4. – Replace “the I3A Technical Guide” with “UFC 3-580-01 Telecommunications Bldg Cabling Systems Planning/Design”

68. Para 3.7.5./New 3.9.5. – In second sentence replace “B-3 of the I3A Technical Guide” with “4 of UFC 3-580-01 Telecommunications Bldg Cabling Systems Planning/Design”.

69. Para 3.7.6./New 3.9.6. – Replace “B-3 of the I3A Technical Guide” with “4 of UFC 3-580-01 Telecommunications Bldg Cabling Systems Planning/Design”.

70. Para 3.9.8. Add new Para 3.9.8. “Provide a single 8-pin modular jack outlet and a single CATV jack outlet in each bedroom.”

71. Para 3.8./New 3.10. – In first sentence replace “the I3A Technical Guide” with “UFC 3-580-01 Telecommunications Bldg Cabling Systems Planning/Design”.

72. Para 3.9.3./New 3.11.3. Revise this paragraph to read “The fire alarm system shall be designed by a registered fire protection engineer and installation shall be supervised by a National Institute for Certification of Engineering Technologies (NICET) Level 3 technician.”

REV 2.8 *30 May 2008*

1. Revised Paragraph 3.1.1 to include Choice of breezeways and exterior entry landings shall be predicated upon the weather criteria of the specific geographic area. Breezeways and exterior entry landings shall be designed to preclude snow and ice infiltration/accumulation.

2. Revised Paragraph 3.1.1.1 (a) from Compliance to Compliant

3. Revised Paragraph 3.1.1.2 with the following: (b) Provide ADA clearances and door accesses in the building main entry/vestibule being used by visitors. (c) If a lobby is required by the RFP, provide a handicapped accessible drinking fountain in the lobby. (d) If a lobby is required by the RFP, provide handicapped accessible public toilet(s), which may be unisex, in the lobby area. (e) Do not include provisions outlined within the ADA requirements for the vision or hearing impaired.

4. Revised Paragraph 3.1.3 to show installations in Alaska, the overall building area is 388 GSF and specified minimum elevator requirements

5. Revised Paragraph 3.1.4.1 to include Bedrooms shall be equal in size and similar in configuration. Each bedroom shall have a walk-in closet directly adjacent. Each walk-in closet shall have a net area of 32 square feet, and shall be furnished with wood hanger rods and wood shelves. Each closet door shall have a Function (F75), Grade 1 lockset, and be equipped with padlock eyes so the occupant can provide his/her own padlock. One padlock eye shall be mortised into and screw attached flush with door edge on the lock side of the door and the second padlock eye shall be mortised and welded flush into the inside face of the door frame jamb. Padlock eye shall be fabricated to accommodate padlock shackle up to 1/4" diameter. Padlock eye color shall match door frame color. Locate padlock eye at between 4'-6"' and 5'-6" AFF. Location of padlock eyes shall be at the same height in all modules

6. Revised Paragraph 3.1.4.2 to include choice between electric range, 2 burner cooktop or 4 burner cooktop

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

7. Revised Paragraph 3.1.4.3 to include floor mounted flush tank type and Seamless fiberglass or acrylic tub-surround units are required

8. Revised Paragraph 3.1.5 Common Areas to include Lobby, Public Toilets and CQ Station

9. Revised Paragraph 3.1.5.5 to include IF DRYER VENTS ARE MANIFOLDED TO A COMMON EXHAUST, PROVIDE AN EASILY ACCESSIBLE MEANS OF CLEANOUT

10. Revised Paragraph 3.1.5.6 to include Provide additional ventilation/exhaust to maintain vending areas temperature at levels specified for corridors.

11. Revised Paragraph 3.1.5.8 to include Provide a minimum of six linear feet of 18 inch deep, heavy duty, stainless steel shelving for storage of janitorial supplies

12. Revised Paragraph 3.1.5.9 to include Provide a minimum of two 120-volt, 20A duplex receptacles in each mechanical room in addition to those required per NFPA 70. In addition, provide a minimum of one receptacle in each electrical room

13. Revised Paragraph 3.1.5.10 to include choice between mail kiosk, outside mail boxes or lobby mail boxes

    NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

14. Revised Paragraph 3.1.5.11 to include Boot Wash

    NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

15. Revised Paragraph 3.1.5.13 to include Vestibule

16. Revised Paragraph 3.2.1.1 to include Non-Destructive Emergency Access System

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

17. Revised Paragraph 3.2.1.2 to include hardware keying requirement

18. Revised Paragraph 3.2.1.3 to include auxiliary hardware

19. Revised Paragraph 3.2.1.4 to include hardware for fire doors

20. Revised Paragraph 3.2.1.5 to include entry/egress doors

21. Revised Paragraph 3.2.1.6 to include Key card access system accessories

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

22. Revised Paragraph 3.2.2.1 to include Module entry acoustical requirements

23. Revised Paragraph 3.2.3 to include All Exterior Design Objectives for UEPH

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

24. Revised Paragraph 3.2.4 to include General: Provide sustainable materials and furnishings that are easily maintained and replaced. Maximize use of daylighting. Provide interior surfaces that are easy to clean and light in color. Design barracks interior with a residential ambience.

25. Revised Paragraph 3.2.4.5 to include. Bathroom and public toilet (if required by RFP) vanity countertop shall be minimum ½ inch thick cast 100 percent acrylic polymer solid surfacing material with waterfall front edge and integral coved backsplash

26. Revised Paragraph 3.2.4.6 to include Fire Extinguisher Cabinets and Fire Extinguishers: Furnish and install fire extinguisher cabinets and fire extinguishers as required by applicable codes and criteria. Furnish a list of installed fire extinguishers (including location, size and type) to the Contracting Office Representative.

27. Revised Paragraph 3.2.4.7 to include Interior Doors and Frames

28. Revised Paragraph 3.2.4.8 to include Window Treatments

29. Revised Paragraph 3.2.4.9 to include Toilet Accessories

30. Revised Paragraph 3.2.5.2 to include (b) Wall, ceiling and floor finishes shall conform to the requirements of the IBC, NFPA and UFC 3-600-01. Where code requirements conflict, the most stringent code requirement shall apply. (c) Carpet shall not be used as a floor finish on this project. Vinyl composition tile (VCT) shall be a minimum 1/8 inch thick, conforming to ASTM F 1066, Class 2, through-pattern tile, Composition 1, asbestos free, with color and pattern uniformly distributed throughout the thickness of the tile. (d) Walls: All wall finish shall be minimum 5/8” painted gypsum board, except where stated otherwise. Gypsum board shall be paperless gypsum board. Use impact resistant paperless gypsum board in corridors, storage rooms, stairwells and activity rooms and centralized laundry. (e) All ceiling finishes shall be minimum 5/8” painted gypsum board, except where stated otherwise. Gypsum board shall be paperless and mold resistant.

31. Revised Paragraph 3.2.5.2 Minimum Interior Finishes Chart

32. Revised Paragraph 3.3 to Structural Requirements from 3.4

33. Revised Paragraph 3.4 to EPACT 05 from 3.3

34. Revised Paragraph 3.5.4.2 to include added Boot Wash

    NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

35. Revised Paragraph 3.5.1.3 to include IF DRYER VENTS ARE MANIFOLDED TO A COMMON EXHAUST, PROVIDE AN EASILY ACCESSIBLE MEANS OF CLEANOUT

36. Revised Paragraph 3.5.2.1 to include choice of HVAC filter location

    NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

37. Revised Paragraph 3.5.2.5 to include choice of ductless or ducted to building exterior range hood

    NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

38. Revised Paragraph 3.6 to include Select electrical characteristics of the power system to provide a safe, efficient, and economical distribution of power based upon the size and types of loads to be served. Use distribution and utilization voltages of the highest level that is practical for the load to be served. The effect of nonlinear loads such as computers, other electronic equipment and electronic ballasts shall be considered and accommodated as necessary. Voltage drop shall not exceed the maximum allowed per ASHRAE 90.1. Transient voltage surge protection shall be provided on service equipment. Bedrooms shall be considered to be living and sleeping rooms, therefore they are to be considered to be part of a dwelling unit per NFPA 70 definition.

39. Revised Paragraph 3.6.1 to include Interior lighting shall be as specified below in addition to the requirements of paragraph 5. Lighting fixtures shall utilize electronic ballasts for all areas except areas where environmental considerations prohibit the use of this type of lighting.

40. Revised Paragraph 3.6.1.3 to include Lighting level in lobbies (if required by the RFP) shall be 10 foot-candles

41. Revised Paragraph 3.6.1.5 to include if a designated area is provided for a dining room table, provide a pendant type fixture with compact fluorescent lamps with manual on/off switching. Lighting level shall be 5-foot candles.

42. Revised Paragraph 3.6.2 to include In addition to the requirements of NFPA 70 for dwelling units, a duplex receptacle shall be mounted adjacent to the CATV outlet. Breaker panel for each dwelling unit shall be located in the common area. Breaker panels shall be lockable and all breaker panels in each building shall be keyed to one master key for maintenance personnel access only

43. Deleted Paragraphs 3.6.2.1 and 3.6.2.2

44. Revised Paragraph 3.6.3 in include MNS shall be integrated into the installation's area wide MNS (Giant Voice). See Paragraph 6 for further requirements.

    NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

45. Revised Paragraph 3.9.2 to include All software, software locks, special tools and any other proprietary equipment required to maintain, add devices to or delete devices from the system, or test the Fire Alarm system shall become property of the Government and be furnished to the Contracting Officer's Representative prior to final inspection of the system

46. Revised Paragraph 3.9.3 to include The fire alarm system shall be designed by a National Institute for Certification of Engineering Technologies (NICET) Level 3 technician or a registered professional Fire Protection Engineer and installation shall be supervised by a NICET Level 3 technician

47. Revised Paragraph 3.9.4 to include choice between trouble signal sent by smoke detectors

    NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 2.7 *28 March 2008*

1. Revised Paragraph 3.1.4.2 to have options for the following:

   Electric range

   2-Burner cooktop, all built-in.

   4-Burner cooktop, all built-in.

   2-Burner cooktop, w/ GFGI convection/microwave.

   4-Burner cooktop, w/ GFGI convection/microwave.

REV 2.6 *28 February 2008*

1. In Paragraph 3.3.3 Revised following Climate Zone Tables: Climate Zones 1A, 1B, 2A, 3A & 4A, changed the economizer requirement to read "no". This change is consistent with ASHRAE 90.1 2004, table 6.5.1.

REV 2.5 *15 December 2007*

1. In Paragraph 3.3.3 Revised Climate Zone Table to remove the GFX domestic hot water recovery system along with the accompanying note 7,

2. Revised Paragraph 3.6.2 to read "….government furnished government installed equipment."

REV 2.4 *15 November 2007*

1. Revised paragraph 3.1.5.10 to read "….1 parcel box per 40 residence."

2. Revised paragraph 3.1.2(a) to remove "not". Paragraph now states "…. Electronic exterior door push buttons are required."

3. Deleted last sentence of paragraph 3.1.5.4 and replaced with the following:

"No point along a corridor wall at 18" above finished floor shall be more than 25 feet from a receptacle."

4. Revised figure reference in Paragraph 3.7.5 to read "B-3" instead of "2-2".

5. Revised figure reference in Paragraph 3.7.6 to read "B-3" instead of "2-2".

REV 2.3 *15 October 2007*

1. Added new Compliance with the Energy Policy Act of 2005 (EPACT 05) requirements as paragraph 3.3. All subsequent paragraphs have been renumbered.

REV 2.2 *01 September 2007*

1. In paragraph 3.1.1

   (a) Revised 01010 to read 01 10 00.

   (b) Removed following text: "A complex includes laundry, mudroom and mail access area."

   (c) Changed from "garden style apartments" to "apartments designed with exterior entry landings."

2. In paragraph 3.1.4.2, added options for adding electric range, cooktop, and garbage disposer

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

3. In paragraph 3.1.5.1, changed payphone so that it is an option.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

4. In paragraph 3.5.1, corrected reference 01010-1.3, to read 01 10 00-3.1.2

5. Modified Minimum Interior Finishes table. Added rooms (Activity Room, Mail Access area) and modified some of the notes.

REV 2.1 *15 August 2007*

1. Modified the Laundry facility question to be either Centralized Laundry Facilities or Laundry located in the dwelling unit. This change will modify Paragraph 3.1.4.4 and 3.1.5.5

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 2.0 *15 June 2007*

1. This contains numerous changes throughout the document as a result of lessons learned. This section should replace all previous sections in entirety.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 1.1 *15 March 2007*

1. Paragraph 3.2: Added American with Disability Act accessibility requirements and reformatted the text before the Functional and Area Tables. Rearranged hot water heaters and apartment complex requirements paragraphs.

REV 1.0 *15 May 2006*

1. Baseline Document

PARAGRAPH 3 – COMPANY OPERATIONS FACILITY (COF)

REV 4.1 *31 January 2013*

1. Rounded up last digit of square footage values on the bottom row of Table 1

2. Added sentence at the end of paragraph 3.5C to read as follows: "The Readiness Module shall be designed to minimize the interior volume to the greatest extent possible to reduce energy consumption, while at the same time ensuring that the mezzanine and potential future platoon offices can be accommodated."

3. Paragraph 3.9 A. 1) revised to change the minimum quantity of voice and data outlets from four to six.

4. Added new paragraph 3.9 F. 4) as follows: "Fire alarm and mass notification strobes shall be placed and installed IAW ABA and the UFAS, in all public and common use areas. This requirement is applicable to all DoD facilities with fire alarm evacuation systems, including those facilities intended for able-bodied military personnel only (UFC 3-600-01, paragraph 5-3.2.1)."

5. Miscellaneous changes made to the furniture requirements in Table 3:

    a. For the training room, the requirement for two 4-drawer lateral files revised to require two 5-drawer lateral files.

    b. For the platoon offices, the requirement for two-4 drawer file cabinets revised to require two 5-drawer file cabinets.

    c. For the arms vault, the unit storage, communications storage, and the NBC storage, furniture requirements revised to read as follows: "1 desk unit consisting of: double pedestal metal desk w/ box, box, file pedestal and file/file pedestal; 1 ergonomic task chair, one 5-drawer lateral file; and 4 lockable metal cabinets with shelves."

6. Drawing changes:

    a. Drawing A-101C: Janitor closet added to each readiness module; closet at the end of the hall in each office suite enlarged to become a printer/copier room. Added four additional showers.

    b. Drawing A-101B: Janitor closet added to each readiness module; closet at the end of the hall in each office suite enlarged to become a printer/copier room.

    c. Drawing A-101A (One company COF): Janitor closet added to the readiness module; closet at the end of the hall in the office suite enlarged to a become printer/copier room.

d. Readiness module sizing templates: Janitor closet added to the readiness modules

e. Detached admin building plan: Closet at the end of the hall in each office suite enlarged to become a printer/copier room. Added four additional showers.

f. Drawing A-102F: Janitor closet added to each readiness module; closet at the end of the hall in each office suite enlarged to become a printer/copier room. Added four additional showers (excluding plan for 2-company COF).

REV 4.0 31 August 2012

1. Revised in its entirety to match new paragraph 3 formatting.

REV 3.8 23 January 2012

1. Revised paragraph heading at 3.3.7 (1)(d) to read: "SIPRNET Requirements."

2. Paragraph 3.3.7(1)(d)1 is now paragraph 3.3.7(1)(d)1.a., and has been revised to read: "The SIPRNET room and infrastructure shall be designed and constructed in accordance with the Technical Guide for the Integration of SIPRNET (Secret Internet Protocol Router Network) and 13A Criteria."

3. Paragraph 3.3.7(1)(d)2 is now 3.3.7(1)(d)b.

4. Paragraph 3.3.7(1)(d) 3 is now Paragraph 3.3.7(1)(d) c, and the first sentence has been revised to read: "Install one SIPRNET outlet with one drop in the office of each Company Commander (CO CDR), Executive Officer (XO), 1st Sergeant (1SG), and each Platoon Office." Also, revised second sentence to read: "Install one SIPRNET outlet with two drops in each unit conference room." Also deleted the last two sentences in this paragraph.

5. Added paragraph 3.3.7(1)(d)2 to state: "For all other COF's, only a SIPRNET Room shall be provided for future SIPRNET connectivity. The SIPRNET room shall be designed and constructed in accordance with the Technical Guide for the Integration of SIPRNET (Secret Internet Protocol Router Network) and I3A Criteria. Connection to the main telecommunications room from the SIPRNET room shall be via a 2-inch trade size steel conduit. Provide a communications signal ground bus bar connected to the main communications room signal bus bar via a properly sized ground wire (see MIL-HDBK-419-A). Provide one dedicated standard 20-amp duplex receptacle for a future SIPRNET rack in addition to convenience receptacles in the SIPRNET room**."**

6. Revised Furnishings Chart, Table 1 to delete the following requirement from both the Unit Storage and Communications Storage rooms: "Industrial shelving approximately 5'w x4'd x 6'h each- 2 for 1st 100PN, 1 additional for every 100 PN thereafter."

7. All floor plans have been revised to reflect energy conservation enhancements.

REV 3.7 31 May 2011

1. Revised next to the last sentence of paragraph 3.3.7 (1) (c) 2 to read: "Provide a duplex outlet (voice/data) for a network printer/copier in the vending area and in the storage room adjacent to each suite."

2. Combined paragraph 3.3.7 (1)(d)1 with subparagraph 3.3.7(1)(d)1a.

3. At the end of paragraph 3.3.7 (1)(d) 3, added the following: "For Explosive Ordnance Detachment (EOD) facilities, contact the local NEC regarding the need for additional SIPRNET outlets in each 1st SGT and the platoon offices."

4. Revised the beginning of paragraph 3.3.7 (1)(d)4 to read: "SIPRNET draft specifications are located in the SIPRNET Technical Implementation Criteria, version 6, dated October 2010."

5. Combined paragraph 3.3.7(1)(g) with subparagraph 3.3.7(1)(g)1.

6. Revised paragraph 3.3.7 (k) to add at the end: "(ie. 150 man Readiness module x 200 VA=30,000 VA.)"

REV 3.6 20 October 2010

1. Added paragraph 3.3.7(1)(d) 1. a to read: "The Communication Room and the SIPRNET Room can be combined into a single room if a SIPRNET safe/container can be used. Coordinate this option with the local NEC."

2. Revised paragraph 3.3.7(1)(g) to clarify installation of the signal devices and equipment associated with the intrusion detection system.

3. Added paragraph 3.3.7 (1)(g)1 to read: "If a SIPRNET safe/container is used, ICIIDS may not be required for this room. Contact the Physical Security Office for guidance. "

4. Revised furniture requirements in Table 1 to reduce the industrial shelving requirements for the unit storage, communications storage, and secure storage rooms.

5. Revised the floor plan of the 3-8 Company Option w/ Integrated Admin to provide a single entry in lieu of two separate entrances. This revision also mirrors the mechanical room with the electrical, communications and SIPRNET rooms.

6. Revised the floor plan of the 2 Company Option w/ Integrated Admin to provide a single entry in lieu of two separate entrances. This revision also mirrors the mechanical room with the electrical, communications and SIPRNET rooms.

REV 3.5 30 June 2010

1. Deleted paragraph 3.3.7(1)(b)2. Interior Lighting Controls.

2. Revised paragraph 3.3.7 (1)(c)1. to add "as shown on the standard design layouts".

3. Revised paragraph 3.3.7 (1)(d)1, to substitute NEC for DOIM.

4. Revised paragraph 3.3.7 (1) (d) 3, to add "unless otherwise directed by the local NEC."

5. Revised paragraph 3.3.7 (1)(d) 4, to substitute NEC for DOIM.

6. Revised the word SIPRNET in paragraph 3.3.7 (1)(g).

7. Index: changed title of 3.3.8 to Energy Conservation.

8. 3.3.8(1): Replaced subparagraph with paragraph on Energy Performance.

9. 3.3.8(2): Replaced subparagraph with paragraph on Required Energy Conservation Features.

10. 3.3.8(3)(a through c): Replaced subparagraphs with paragraph on Compliance Documentation.

11. Added subparagraph 3.3.8(4) on Schedules.

12. 3.3.8: Deleted List of Army Bases by County table.

13. 3.3.8: Deleted all Target Energy Budget tables.

14. 3.3.8: Changed text in Climate Zone tables from “Prescriptive Solution” to “Energy Conservation Features”.

15. 3.3.8: Deleted the “Baseline” column in the Climate Zone tables.

16. 3.3.8: Deleted the “HVAC”, “Economizer”, and Ventilation” rows in the Climate Zone tables.

17. 3.3.8: Changed last column heading in Climate zone tables from “Recommendation” to “Minimum Requirement”

18. 3.3.8: Note 1 to Climate Zone tables: Changed text “are from” to “shall be per”.

19. 3.3.8: Note 2 to Climate Zone tables: Deleted text “-2007, Normative Appendix A”.

20. 3.3.8: Note 8 to Climate Zone tables: Replaced text “Prescriptive Solution” with “Energy Conservation Features”.

21. 3.3.8: Deleted Note 9 from Climate Zone tables.

REV 3.4 *30 April 2010*

1. Deleted sentence “Interior ambient….IESNA RP-1-04” in paragraph 3.3.7 (1) (b) 2.

2. Deleted sentence “There shall be a … stacked between floors.” in paragraph 3.3.7 (1) (c) 1.

3. Removed “…and ANSI/EIA/TIA-569-B.” from 3rd sentence of paragraph 3.3.7 (1) (c) 1. and removed ensuing 2 sentences.

4. Removed “/NEC and Physical Security Office.” from last sentence of paragraph 3.3.7 (1) (d) 1.

5. Modified last sentence of paragraph 3.3.7 (1) (d) 4. by adding “/NEC” after “… DOIM” and deleting “… or Physical Security Office.”

6. Deleted last sentence of paragraph 3.2.3 (7).

7. Deleted reference to “2004” for ASHRAE 90.1 in all EPACT Tables, and Note 1.

8. Removed reference to “2004” for ASHRAE 90.1 in 2nd sentence of Note 5 of EPACT Tables.

9. Removed reference to “2004” for ASHRAE 90.1 in last sentence of paragraph 3.3.8 (1). Added period to end of same sentence.

10. Added “100” to Vault row and ADD’L 50 PN column of Table 2.

11. Modifed Arms Vault for 250 Person Readiness Module on drawing Readiness Module Sizing Templates.

REV 3.3 31 December 2009

1. Revised paragraph 3.3 TECHNICAL REQUIREMENTS /3.3.1 Site Design/(1) exterior Covered Hardstand, to indicate that the concrete slab under the Hardstand shall have a slope of no more that 2 %

2. Revised paragraph 3.3 TECHNICAL REQUIREMENTS /3.3.1 Site Design/(2) Service Yard, to specify that the Service Yard is to be a minimum of 80’ deep and to indicate that the concrete paving of the Service Yard shall have a slope of no more that 2 %.

3. Revised paragraph 3.3.5 Plumbing/(2) Domestic Hot Water System, to indicated that the System storage and recovery shall be sized to have enough capacity to provide hot water to all showers continuously for 90 minutes.

4. Revised paragraph 3.3.7 Electrical and Communications/(1) Interior Electrical and Communications/(c) Telecommunication/ 2. Telecommunication Outlets.,To require that duplex outlets for a network printer and copier be located in the storage area adjacent each office suite, in the vending area and in the corridor to the offices.

5. Revised paragraph 3.3.7 Electrical and Communications/(1) Interior Electrical and communications/(c) Telecommunication/ 4 to require that copper cabling between buildings shall be treated as OSP cable and shall follow OSP cable requirements as stated in the I3MP grounding and Bonding Guide. This is to include the use of protector blocks and other grounding requirements in order to avoid lighting issues that could damage the IT equipment. Further revised the paragraph to authorize the option of using fiber cable via OSP from the main TR to a termination point inside another building on a fiber distribution Panel, rack or cabinet with a minimum of 6 strands.

6. Revised paragraph 3.3.7 Electrical and Communications/(1) Interior Electrical and Communications/(h) Mass Notification System to require that a mass notification System be provided for each facility in accordance with UFC 4-010-01.

7. The following Charts and Tables were added or replace previous tables by the same name:

   List of Army Bases by County in the United States
   Climate Zones for Army Facilities in Japan and South Korea
   Climate Zone 1A EPACT 2005 Target Energy Budgets For Selected Army Facility Types
   Climate Zone 2A EPACT 2005 Target Energy Budgets For Selected Army Facility Types
   Climate Zone 2B EPACT 2005 Target Energy Budgets For Selected Army Facility Types

Climate Zone 3A EPACT 2005 Target Energy Budgets For Selected Army Facility Types
Climate Zone 3B EPACT 2005 Target Energy Budgets For Selected Army Facility Types
Climate Zone 3C EPACT 2005 Target Energy Budgets For Selected Army Facility Types
Climate Zone 4A EPACT 2005 Target Energy Budgets For Selected Army Facility Types
Climate Zone 4B EPACT 2005 Target Energy Budgets For Selected Army Facility Types
Climate Zone 4C EPACT 2005 Target Energy Budgets For Selected Army Facility Types
Climate Zone 5A EPACT 2005 Target Energy Budgets For Selected Army Facility Types
Climate Zone 5B EPACT 2005 Target Energy Budgets For Selected Army Facility Types
Climate Zone 6A EPACT 2005 Target Energy Budgets For Selected Army Facility Types
Climate Zone 6B EPACT 2005 Target Energy Budgets For Selected Army Facility Types
Climate Zone 7A EPACT 2005 Target Energy Budgets For Selected Army Facility Types
Climate Zone 8A EPACT 2005 Target Energy Budgets For Selected Army Facility Types
COF Climate Zone 1A Prescriptive Solution Table
COF Climate Zone 2A and 2B Prescriptive Solution Table
COF Climate Zone 3A,3B,3C Prescriptive Solution Table
COF Climate Zone 4A,4B,4C Prescriptive Solution Table
COF Climate Zone 5A, 5B Prescriptive Solution Table
COF Climate Zone 6A, 6B Prescriptive Solution Table
COF Climate Zone 7A Prescriptive Solution Table
COF Climate Zone 8A Prescriptive Solution Table

Notes 1 thru 9 were added.

REV 3.2 *30 September 2009*

1. Paragraph 3.3.6 (2); Add new second sentence for separate air side equipment in each Readiness Module.

2. Paragraph 3.3.7 (1)(c)1.; change “guide” to “criteria”.

3. Paragraph 3.3.7 (1)(c)2.; change “guide” to “criteria”.

4. Paragraph 3.3.7 (1)(c)4.; change “guide” to “criteria”.

5. Paragraph 3.3.7 (1)(d)3.; change “guide” to “criteria”.

6. Paragraph 3.3.7 (1)(e); change “guide” to “criteria”.

7. Paragraph 3.3.7 (1)(i); change “guide” to “criteria”.

8. Add new Paragraph 3.3.8, Compliance with the Energy Policy Act of 2005.

9. Renumber Paragraphs 3.3.9 and 3.3.10.

10. Drawings: Note for provisional changes to standard floor plans revised on each drawing sheet

REV 3.1 *30 April 2009*

1. Paragraph 3.2.3 (8) second sentence has been omitted in its entirety.

2. Paragraph 3.3.1 (4) statement "5 feet from edge of electrical and mechanical equipment" has been omitted and the following has been added before the final sentence: "Also, provide bollards 5 feet from the edge of electrical and mechanical equipment, and to protect the corners of Admin/Readiness buildings".

3. Paragraph 3.3.7 (c) 1. The following has been added after the last sentence: "In addition to the receptacles and circuits required by I3A, provide a dedicated 30 amp, 208 volt, single phase circuit terminating in a disconnect switch in the main telephone communication room on the first floor."

4. Paragraph 3.3.7 (c) 2.

   (a) The phrase "\desks" has been inserted after workstations at 2nd sentence.
   (b) Parenthesized statement at sentence three - word "two" has been replaced by "four" and now reads "(minimum four outlets)".
   (c) The following has been added to the end of the fourth sentence: "and entrances/exits in the Readiness Modules".
   (d) Fifth sentence has been revised and now reads: "Provide a duplex (voice/data) outlet at the desk in each of the Storage Rooms and Arms Vault in the Readiness Module."
   (e) Sixth sentence has been omitted.

5. Paragraph 3.3.7 (c) 4. Entire paragraph has been revised and reads as follows: "For Detached Readiness Modules, provide a separate communication room on the mezzanine as shown with the integrated Admin Option of the floor plans. The telecommunications rooms shall be designed in accordance with the I3A Guide and ANSI/EIA/TIA-569-B. Where copper cable runs exceed 295 feet, provide additional telecommunication rooms on the mezzanine as required. The incoming telephone service (voice and data) shall be from the nearest manhole or from the main telephone communication room in the Admin Module, size the cables and conduits as per I3A guidance."

6. Paragraph 3.3.7 (e) last sentence has been omitted.

7. Table 1: Room Size and Furnishings Chart Furniture required column has been updated for all room types with the exception of SECURE STOR.

8. Table 1.1: Room Size and Furnishings Chart for Troop Aid Station (TAS) Furniture required column has been updated for ADMIN./MED RECORDS.

9. COF DRAWING REVISIONS:

   (a) 1 COMPANY OPTION:

   1st floor - SIPRNET, COMM, and ELEC rooms have been resized with concurrence through ISEC.

   Mezzanine level - COMM room has been added and Optional Platoon Office locations have been shifted to accommodate.

(b) 2 COMPANY OPTION:

1st floor - SIPRNET, COMM, and ELEC rooms have been resized with concurrence through ISEC.

Mezzanine level - COMM room has been added and Optional Platoon Office locations have been shifted to accommodate

(c) 3-8 COMPANY OPTION:

1st floor - SIPRNET, COMM, and ELEC rooms have been resized and reconfigured with concurrence through ISEC.
Mezzanine level - COMM rooms have been added and Optional Platoon Office locations have been shifted to accommodate.

REV 3.0 28 February 2009

1. Paragraph 3.1.6 has been revised in its entirety and now reads as follows:

   "An Adapt-Build Model for a COF, which contains a fully developed design, including a Building Information Model (BIM), 2-D CADD files, and specifications, can be downloaded from the following FTP site: ftp://ftp.usace.army.mil/pub/sas/COF/. This design is provided as a guide that exemplifies a technically suitable product and incorporates mandatory functional/operational requirements for a similar (although perhaps not an exact) facility to be constructed under this solicitation. It will be left to the offerors' discretion if, and how, they will use the sample design provided to satisfy the requirements of this Request for Proposal. This model is not intended to modify or over-ride specific requirements of this RFP and, under all circumstances, it will be incumbent upon the successful offeror to adhere to the site specific scope and functional/operational requirements specified within the RFP. Neither this statement of work, nor the adapt-build model, are intended to diminish the offeror's responsibilities under the clauses titled "Responsibility of the Contractor for Design," "Warranty of Design," and "Construction Role During Design." The successful offeror shall be the designer-of-record and shall be responsible for the final design and construction product, including but not limited to, adherence to the installation architectural theme, building code compliance and suitability of the engineering systems provided. The government assumes no liability for the model design provided and, to the extent it is used by an offeror, the offeror will be responsible for all aspects of the design as designer-of-record."

2. Paragraph 3.2.2 (1)(f) the word "future" has been omitted from the 1st and 2nd sentences.

3. Paragraph 3.2.3 (6) the following sentence has been added and inserted after the final sentence:

   "Provide a GSA approved Class 5 Armory vault door with lock in accordance with Fed. Spec. AA-D-600D and a Dutch style day gate with issue port."

4. Paragraph 3.3.3 (2) Qualifications of Fire Protection Engineer - has been omitted in its entirety. All subsequent paragraphs (2 thru 10) have been renumbered accordingly.

5. Paragraph 3.3.3 (3) the word "preliminary" at second sentence has been replaced by the word "interim".

6. Paragraph 3.3.3 (4) (b) the second sentence has been omitted and now reads as follows:

   "Exterior hose stream demand shall be in accordance with UFC 3-600-01. Exterior hose stream demand shall be included in the sprinkler system hydraulic calculations."

7. Paragraph 3.3.5 (2) third and fifth sentences have been revised and final sentence has been omitted, paragraph now reads as follows:

   "The main water heating equipment shall be located within a mechanical room, and also located on the ground floor level only. Instantaneous water heaters are not allowed to be used for hot water serving all COF areas except Readiness Area. System storage and recovery shall be sized to deliver sufficient capacity at the showers to meet paragraph 3.2.3(8) requirements. Usage diversity factor for the showers shall be one. Minimum system total storage of water heater(s) shall be 400 gallons for 1- and 2-company COFs, and 600 gallons for 3-company and larger COFs."

8. Paragraph 3.3.6 (3) HVAC Controls has been added and reads as follows:

   "HVAC Controls shall be in accordance with paragraph 5.8.3. See Appendix for HVAC Controls for typical control system points schedules. These schedules identify as a minimum points to be monitored and controlled by the building automation system (BAS). See paragraph 6 for any additional installation specific points. The points schedule drawings convey a great deal of information critical to the design, installation, and subsequent performance of the control system. It includes hardware input/output information, device ranges and settings, ANSI 709.1 communication protocol data, and information about data that is to be used at the operator workstation by the Monitoring and Control software. These schedules are available as an excel spread sheet and as AutoCAD drawings on the Engineering Knowledge Online (EKO) website https://eko.usace.army.mil/fa/bas/. Point schedule of system types not addressed in the appendix shall be developed by the Contractor, and shall be sufficiently detailed to a level consistent to a similar listed system in the appendix. It is recommended that all of the guidance and instruction documents be reviewed prior to using any of the info, as the documents provide necessary and critical information to the use of the website drawings and other information."

9. Paragraph 3.3.7 1 (1) (c) 4. Telecommunications Design has been omitted in its entirety and subsequent paragraph has been renumbered accordingly.

10. Paragraph 3.3.7 (1) (d) SIPRNET has been revised in its entirety and now reads as follows:

    "1. The SIPRNET room and infrastructure shall be designed and constructed in accordance with the “Building SIPRNET Communication Room – New Construction Guidance”, paragraph of the Technical Guide for the Integration of SIPRNET (Secret Internet Protocol Router Network). The SIPRNET building infrastructure design and installation shall be coordinated with the local DOIM and Physical Security Office.

    2. In the NSTISSI 7003 and the Technical Guide for Integration of SIPRNET, paragraph “Protective Distribution System”, the word "shall" shall be substituted for the word "should" or “will” in this paragraph.

3. Install one SIPRNET outlet with one drop in each Company Commander's office. Install one SIPRNET outlets with four drops in each unit conference room. The SIPRNET building infrastructure shall use Category 6 UTP copper cables with red cable jacket and red outlet modules. Cables shall be terminated in the SPIRNET room and at the outlet in accordance with the I3A Technical Guide for data cables. Where copper cable runs exceed 295 feet, see guidance in paragraph “Building SIPRNET Communication Room – New Construction Guidance”.

4. Specifications Section 27 05 28.39, “SURFACE RACEWAYS FOR COMMUNICATION SYSTEMS” for the SIPRNET Communications System shall be incorporated into the project. Copy of the specifications can be obtained at the following URL: (ftp://ftp.usace.army.mil/pub/sas/Surface_Raceways/).The surface mounted raceway shall be used instead of the surface mounted conduit unless otherwise indicated by the local DOIM or Physical Security Office."

11. Paragraph 3.3.7 (1) (e) the word "draft" has been omitted from the third sentence.

12. Paragraph 3.3.7 (1) (k) has been revised in its entirety and now reads as follows:

"Future Soldier Land Warrior System. Provide a disconnect switch (208/120V, 3 phase, 4 wire) in each of the Secure Non-Sensitive Storage Room in the Readiness Module. Size the disconnect switch(s) and the circuit breaker(s), conductors and conduit(s) from a 208 volt, 3 phase, 4 wire distribution panel to the disconnect switch(s) based on a 200 VA continuous demand load for 100 percent of the maximum personnel in each Company Readiness Area."

13. 3.3.8 Table 1.1- Waiting Room, Furniture required - the following items have been added: "magazine rack, brochure rack and end tables."

14. 3.3.8 Table 1.1, Notes following the table have been revised in their entirety and now read as follows:

"1. All furniture items identified in Table 1.1 above are provided for initial coordination of TAS room layouts to ensure suitability for their intended function. These items are described in detail and located at Appendix entitled TROOP AID STATION FURNISHINGS.

2. Examination/treatment table with cabinet is a hospital equipment item that is specified, purchased and installed by others, i.e. Government Furnished Government (GFGI).

3. Countertops, base cabinets, and cubicle curtain and track are Contractor Furnished Contractor Installed (CFCI) items.

4. Troop Aid Station Furnishings Attachment further clarifies what is: (1) Contractor Furnished Contractor Installed (CFCI); (2) Hospital Equipment (Hosp Equip) – specified, purchased and installed by others, i.e. Government Furnished Government (GFGI); and (3) Furniture, Fixtures and Equipment (FF&E) – designed by AE but purchased and installed by others, i.e. Government Furnished Government (GFGI).

5. Go to http://usahfpa.amedd.army.mil, HFPA Construction and Planning References, Criteria, Space Planning and Guideplates, Military Handbook 1691 for additional information on the JSN item numbers and utility requirements."

15. Paragraph 3.4, Table 2 Readiness Module Variants heading has been revised to read as follows:

    "READINESS MODULE VARIANTS - MINIMUM REQUIRED NET AREAS (BASED ON PERSONNEL PER COMPANY)"

16. COF Preferred Drawing Changes:

    Room label "FUTURE SIPR/STOR" has been revised and now reads "SIPRNET" on the following drawings:

    1 COMPANY OPTION W/ INTEGRATED ADMIN

    2 COMPANY OPTION W/ INTEGRATED ADMIN (first floor plan)

    3-8 COMPANY OPTION W/ INTEGRATED ADMIN (first floor plan)

    TYPICAL DETACHED TWO STORY ADMIN MODULE

17. TROOP AID STATION FURNISHINGS APPENDIX, all enclosures this appendix have been revised in their entirety.

REV 2.6 *31 October 2008*

1. 3.1.2 Gross Building Area, has been revised in its entirety and now reads as follows:

"Gross areas of facilities shall be computed according to subparagraphs below. Maximum gross area limits indicated in Paragraph 2.0 Scope, may not be exceeded. A smaller overall gross area is permissible if all established net area program requirements are met.
(1) Enclosed Spaces. The gross area includes the total area of all floors, including basements, mezzanines, penthouses, usable attic or sloping spaces used to accommodate mechanical equipment or for storage with an average height of 6'-11" measured from the underside of the structural system and with the perimeter walls measuring a minimum of 4'-11" in height, and other enclosed spaces as determined by the effective outside dimensions of the building. (Exterior Covered Hardstand area associated with Company Operations Facilities shall be calculated as enclosed space (i.e. full scope).
(2) One-Half Spaces. One-half of the area will be included in the gross area for balconies and porches; exterior covered loading platforms or facilities, either depressed, ground level, or raised; covered but not enclosed passageways or walks; covered and uncovered but open stairs; and covered ramps.
(3) Excluded Spaces. Crawl spaces; exterior uncovered loading platforms or facilities, either depressed, ground level, or raised; exterior insulation applied to existing buildings; open courtyards; open paved terraces'; roof overhangs and soffits for weather protection; uncovered ramps; uncovered stoops; and utility tunnels and raceways will be excluded from the gross area".

2. 3.2.2 Functional Areas (2) (c), everything following the first sentence has been revised as follows:

   "This provision shall be accomplished by the utilization of a mezzanine over the entire open area of the Readiness Module, within the area limitations of IBC and NFPA 101. The drawings indicate preferred overflow/expansion arrangements that meet user operability requirements. The expansion space indicated on the drawings shall be provided at the time of initial project construction".

3. Section 3.2.3 (3), the word "maximum" has been inserted at parenthesized statement at end of 1st sentence and now reads:

   (100 percent of maximum personnel in each company)

4. Section 3.2.3 (4), the word "maximum" has been inserted at parenthesized statement at end of 3rd sentence and now reads:

   (50 percent of maximum personnel in each company)

5. Section 3.2.3 (5), the word "maximum" has been inserted at parenthesized statement at end of 2nd sentence and now reads:

   (25 percent of maximum personnel in each company)

6. The following sentence has been added and inserted into Section 3.3.2 (2):

   "The minimum interior wall construction for devising walls between company readiness areas shall consist of a stud wall with impact resistant gypsum wall board each side".

7. The following paragraph has been added (6) and inserted into Section 3.3.2: (please note, visual graphic representation of lockers have also been included):

   "(6) TA-50 Storage Lockers shall be single tier, heavy duty, all welded ventilated type and meet the following minimum requirements:

   (a) Lockers shall be in accordance with Section 01 10 00, 3.2.3 (3), with size and appearance as indicated below.

   (b) All tops, bottoms and shelves shall be constructed of minimum 16 gauge thick cold rolled sheet steel. All sides, intermediate partitions and backs shall be constructed of minimum 14 gauge flattened expanded metal or perforated metal with a minimum free area of 50%, welded to angle iron frames. Frames shall be constructed of minimum 1” X 1” X 1/8” angle iron steel. Thickness of metal and details of assembly and supports shall provide strength and stiffness.

   (c) Double doors shall have a three-point three-sided cremone latch and shall be padlockable. Doors shall be hinged with minimum five knuckle heavy duty steel pin butt hinges welded to both door and locker frame – provide three hinges per single tier door.

   (d) Each locker shall include: one aluminum number plate (numbered in sequential order), one full width shelf located 12” from the top with clothes hangar rod and three locker hooks mounted below.

   (e) Lockers shall be galvanized and coated with a high quality durable finish with color to be manufacturer’s standard tan or gray.

   (f) Locker shall be anchored to concrete floor in accordance with manufacturer’s recommendations"

8. 3.3.3 (4) (a) Sentences 2-4 have been deleted and replaced by the following:

"The sprinkler service main shall be provided with an exterior post indicator valve with tamper switch reporting to the fire alarm control panel (FACP)".

9. 3.3.3 (7) Fire Water Supply paragraph has been deleted in its entirety and replaced by the following:

   "Fire flow test data is provided in Appendix D".

10. 3.3.3 (9) Fire Detection and Alarm paragraph has been deleted in its entirety and replaced by the following:

    "Refer to 3.3.7, Electrical and Communication Systems, for requirements"

11. 3.3.6 (1) (a), the phrase "plus/minus 5 percent" has been deleted from the 3rd sentence and now reads as follows:

    "Rooms shall be maintained at 72 degrees F and 50 percent relative humidity year-round".

12. 3.3.6 (1) (a), the following has been added after the final sentence:

    "Assume 1775 BTU per hour for the equipment heat dissipation. Contractor shall verify this load during the design stage".

13. 3.3.6 (2), at first and fourth sentences, all references to 82 degrees have been edited to read 80 degrees.

14. 3.3.7 (1)(c)(1), the following has been added after the final sentence:

    "Where copper cable runs exceed 295 feet, provide additional telecommunication rooms."

15. 3.3.7 (1)(c)(4), the final two sentences have been omitted.

16. 3.3.7 (1)(c), paragraph (5) has been added as follows:

    "5. For a Detached Readiness Module Buildings, provide a separate communication room where possible, if space is not available for a separate communication room then the incoming telephone services (fiber and copper) shall be terminated in accordance with I3A Figure B-5 in an appropriate secure area or a lockable cabinet.

17. 3.3.7 (e), The first sentence has been edited and now reads as follows:

    "CATV shall be provided in all private offices, conference rooms (minimum two outlets), and one in each of the readiness areas".

18. 3.3.7 (e), the following statement has been added after the final sentence as follows:

    "For a Detached Readiness Module Buildings, the incoming CATV service shall be terminated in a 24”x24”x12” wall mounted enclosure with a dedicated NEMA 5-20 receptacle. Interior building CATV cables in raceways shall terminate in this enclosure.

19. 3.3.7 (j), paragraph 2, last sentence, which states "Use red color EMT", has been deleted.

20. 3.3.8 Table 1.1 (Note), second sentence has been revised to read as follows:

21. "These items are described in detail and located at Attachment TROOP AID STATION FURNISHINGS".

22. (COF) TROOP AID STATION FURNISHINGS Attachment, with 3 enclosed pages, have been attached at the end of the document. This Attachment will be included automatically when TAS option is selected for inclusion in the WIZARD.

REV 2.5 *15 July 2008*

1. Table 1.1 Room Size and Furnishings Chart for Troop Aid Station (TAS) has been provided at Section 3.3.8 Furniture Systems. Preference is for this table to be inserted immediately following Table 1: Room Size and Furnishings Chart ONLY when toggle to include the Troop Aid Station is selected

REV 2.4 *15 June 2008*

1. Added Paragraph 3.1.6 Adapt-Build Guidance to be included for Task Orders only.

2. 3.2.2 Functional Areas, Paragraph (2) Readiness Module, (a) - the following has been inserted after the 2nd sentence: "Each company area shall accommodate forklift access from the readiness bay to the exterior loading areas."

3. 3.2.3 COF Army Standards, Paragraph (4) Interior Operations and Maintenance Area. The following has been inserted after the last sentence: "In addition to the above, wire mesh cage storage shall be provided for unit supply, NBC, and communications equipment located at the supply bay area"

4. 3.2.3 COF Army Standards, Paragraph (7) Non-Sensitive Secure Storage (other than AA&E). With the exception of the first sentence, this paragraph has been revised to the following: "The room shall be constructed of material to prevent forcible entry. The minimum acceptable construction is expanded steel fabric behind impact resistant gypsum board at both walls and ceiling. The door should provide an equivalent degree of security and as a minimum should be constructed of sheet metal material not less than 16 gauge in thickness and be equipped with a hasp to accommodate a high security padlock. Provide provision for ICIDS (Internal Commercial Intrusion Detection System)."

5. 3.3 TECHNICAL REQUIREMENTS, Paragraph 3.3.1 Site Design, (1): the following has been added after the first sentence: "Provide weatherproof lighting and weatherproof general purposes receptacles with ground fault protection. Lighting control shall be provided with local switches with photocell override. Provide one duplex receptacle for every two columns."

6. 3.3 TECHNICAL REQUIREMENTS, Paragraph 3.3.1 Site Design, (2): The 4th and 5th sentences have been revised to the following: "Provide accommodation for boot/TA-50 gear washing, drainage, and grit removal. Provide one boot/TA-50 gear washing station per company."

7. 3.3 TECHNICAL REQUIREMENTS, Paragraph 3.3.1 Site Design, (4) Privately Owned Vehicles (POV) Parking, has been renumbered and is now (5) Privately Owned Vehicles (POV) Parking

8. 3.3.2 Architectural Design, First paragraph has been numbered (1) and revised to the following: "Exterior architectural features of the building shall be designed in accordance with the established Installation architectural theme."

9. 3.3.2 Architectural Design, the following has been added and inserted as paragraph (2): "The Readiness Module shall be constructed to meet the requirements of a Risk Level II analysis in accordance with AR 190-51 and AR 190-13. In conjunction with this, it has been determined that a minimum exterior wall construction consisting of 26 gauge metal wall panels with insulation and an interior metal liner panel extended to a height 8' above the finished floor will satisfy the minimum Risk Level II requirements of AR 190-51, Appendix B-2, paragraph c., "Walls".

10. 3.3.2 Architectural Design, Paragraph (1) Natural Lighting has been renumbered and is now (3) Natural Lighting.

11. 3.3.2 Architectural Design, Paragraph (2) Sound Insulation has been renumbered and is now (4) Sound Insulation.

12. 3.3.2 Architectural Design, Paragraph (3) Office and Administrative Areas has been renumbered and is now (5) Office and Administrative Areas.

13. Para 3.3.3 (4), Sprinkler System: Deleted the first two sentences and substituted the following: " Provide complete sprinkler protection for Company Operations Facilities, including both Administrative Modules and Readiness Modules, designed in accordance with UFC 3-600-01 and NFPA 13. Wet pipe sprinkler systems shall be provided in areas that are heated and dry pipe sprinkler systems shall be provided in areas subject to freezing."

14. Para 3.3.3 (10) (a), Fire Extinguishers: Deleted the title "Fire Extinguishers" and the text. Replaced with the following: "Fire Extinguisher Cabinets and Brackets. Fire Extinguisher cabinets and brackets shall be provided when fire extinguishers are required by UFC 3-600-01 and NFPA 101. Placement of cabinets and brackets shall be in accordance with NFPA 10. Semi-recessed cabinets shall be provided in finished areas and brackets shall be provided in non-finished areas (such as utility rooms, storage rooms, shops, and vehicle bays). Fire extinguishers shall not be provided in this contract."

15. 3.3.6 Heating, Ventilating, and Air Conditioning, (2) Readiness Areas, the 2nd thru 3rd sentences have been substantially revised. The following shall be inserted after the word "cooling" in the 2nd sentence which states: Indoor design temperature for heating shall be 55 degrees F, and for cooling…"[the indoor design conditions shall be 82 degrees F dry bulb with a maximum 60 percent relative humidity. Whenever the indoor dry bulb temperature and/or the maximum relative humidity is exceeded, the air conditioning unit shall run, and shall continue to run until the design dry bulb temperature and the relative humidity requirements are satisfied.] [shall be 10 degrees F above outdoor 1 percent dry bulb design temperature.] The [air conditioning unit] [ventilation unit] serving the readiness area shall be capable of providing outside air quantities, in accordance with ASHRAE 62.1, for the design people load of the readiness area. [Arms vaults shall be cooled to 82 degrees F with room air to be 100% exhausted.] [Independent and dedicated packaged A/C units shall be provided for the Arms Vaults and Non-Sensitive Secure Storage Areas.] Ventilation for Arms Vaults shall be provided in accordance with ASHRAE 62.1 requirements for storage rooms."

16. 3.3.7 Electrical and Communications, (1) Interior Electrical and Communications, (c) Telecommunications, Subparagraph 4 added and inserted as follows: "4. Telecommunications Design. Telecommunications design must be performed and stamped by a Registered Communication Distribution Designer (RCDD) with 2 yrs related experience or person with 5 yrs related experience. The information systems designer must prepare the test plan, and witness and certify the testing of telecommunications cabling. In the I3A Technical Guide, the word “shall” shall be substituted for the word “should” throughout the document. The I3A Technical Guide shall be considered to be MANDATORY Criteria."

17. Table 1: Room Size and Furnishings Chart, UNIT STOR., Furniture Required, last statement has been revised to the following: "2 for 1st 100PN, 2 additional for every 50PN thereafter. "

18. Table 1: Room Size and Furnishings Chart, SECURE STOR., Furniture Required, last statement has been revised to the following: "1 for 1st 100PN, 1 additional for every 50PN thereafter."

19. COF Preferred Plans: 1 COMPANY OPTION W/ INTEGRATED ADMIN, number of sinks at mezzanine level has been revised to three.

REV 2.3 15 March 2008

1. Added the following to paragraph 3.3.7(c):

   “4. Telecommunications Design. Telecommunications design must be performed and stamped by a Registered Communications Distribution Designer (RCDD) with 2 yrs related experience or person with 5 yrs related experience. The information systems designer must prepare the test plan, and witness and certify the testing of telecommunications cabling. In the I3A Technical Guide, the word "shall" shall be substituted for the word "should" throughout the document. The I3A Technical Guide shall be considered to be MANDATORY Criteria.”

REV 2.2 28 February 2008

1. Revised Paragraph 3.3.6(2) to read as follows:

   (a) If the readiness module will be air conditioned: “The readiness module shall be heated and air conditioned. Indoor design temperature for heating shall be 55 degrees F, and for cooling shall be 82 degrees F. Arms vault shall be cooled to 82 degrees F with room air to be 100% exhausted. Ventilation for Arms Vaults shall be provided in accordance with ASHRAE 62.1 requirements for storage rooms. Communication rooms located in Readiness Building will be served by an independent and dedicated air-handling system and shall be conditioned per Administrative Areas paragraph requirements. Administrative-type areas located within the Readiness Building shall be conditioned per Paragraph 5 requirements.”

   (b) If the readiness module will not be air conditioned: “The readiness module shall be mechanically ventilated and heated. Indoor design temperature for heating shall be 55 degrees F, and for cooling shall be 10 degrees F above outdoor 1 percent dry bulb design temperature. Independent and dedicated packaged A/C units shall be provided for the Arms Vaults and Non-Sensitive Secure Storage Areas. Ventilation for Arms Vaults shall be provided in accordance with ASHRAE 62.1 requirements for storage rooms. Communication rooms located in Readiness Building will be served by an independent and dedicated air-handling

system and shall be conditioned per Administrative Areas paragraph requirements. Administrative-type areas located within the Readiness Building shall be conditioned per Paragraph 5 requirements."

REV 2.1 *06 November 2007*

1. Revisions to the attached drawings:

   (a) Sheets 1-7 of 8: General note, last sentence with asterisk, has been updated to reference RFP Section 01 10 00 in lieu of 01 11 00.

   (b) Sheet 1 of 8: Pair exterior doors at TA-50 Gear Storage area have been corrected to reflect an overhead door with adjacent single egress door.

   (c) Sheet 4/6 of 8: Conference rooms folding partitions depicted.

   (d) Sheet 4 of 8: Allowable Gross Area for Admin. Module has been changed to 15,130.00 GSF in lieu of 16,120.00 GSF.

   (e) Sheet 7 of 8: Note 2, second sentence has been edited and now includes the following:

   "EACH 50 PERSON INCREMENTAL INCREASE WILL ADD APPROXIMATELY 30 FEET IN LENGTH TO THE READINESS MODULE".

   (f) Sheet 8 of 8 (new): This is a new sheet which incorporates all Troop Aid Station requirements, all building configurations.

Rev. 2.0 *10 September 2007*

1. This contains numerous changes throughout the document as a result of lessons learned. This section should replace all previous sections in entirety. **This change will only affect projects with the fiscal year of FY2008.**

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

Rev. 1.3 *15 August 2007*

1. The beginning of Paragraph 3.2.1 was revised to read as follows:\

   "The COF functional requirements in this section are based upon the 30 Apr 2004 version of the Department of the Army Standard Design for COFs (with Revision 1, dated March 2006). The COF standard design is available via the Internet at www.projnet.org, under the Bid – Plan Room. To access the standard design, bidders will need to be a current registered user or self-register into system. To self-register go to web page, click BID tab select Plan Room, select agency USACE, enter the Plan Room Key of FUYEYX-C3M548, and your e-mail address, click login. Fill in all required information and click create user. Verify that information on next screen is correct and click continue. Schematics derived from this standard design are included in this section to identify functional and operation requirements (including area and adjacency requirements)."

Rev. 1.2 *15 June 2007*

1. Paragraph 3.1.4 was revised with the first sentence reading as follows: "HANDICAPPED ACCESS: COFs are intended for use by able bodied military

personnel only, therefore, are not required to meet handicapped accessible requirements."

Rev. 1.1 15 October 2006

1. Paragraph 3.2.1. was revised with the first sentence reading as follows: "General. The COF functional requirements presented in this section are based upon the 30 Apr 2004 version of the Department of the Army Standard Design for COFs (with Revision 1, dated March 2006)."

2. Paragraph 3.2.3 (2) (c) was revised to read: "Accommodation for overflow/expansion from either admin or storage spaces. Preference is for inclusion of a mezzanine over the entire open area of the Readiness Module, within the area limitations of IBC and NFPA 101. In any case, the indicated mezzanine expansion space specified in Table 2, SPACE CRITERIA FOR COMPANY OPERATIONS FACILITIES, whether included in a mezzanine or some other configuration, shall be provided at the time of initial project construction."

3. Under paragraph 3.2.4, COF ARMY STANDARDS, the notes were revised in the following manner:

   (a) Under note 6 (fourth sentence), the number "440" was replaced with the number "400". Sentence reads as follows: "The nominal sizes of the arms vaults range from 400 SF for the smallest companies up to 600 SF for larger units."

   (b) Under note 7, the third sentence was revised to read as follows: "Unless otherwise specified, the minimum security standards shall meet the requirements of a Risk Level II analysis."

4. Under paragraph 3.3.4, Electrical and Communications, the notes were revised in the following manner:

   (a) Note 2 reads as follows: "Lighting. Interior lighting controls shall be provided in accordance with ASHRAE 90.1. Local manual controls shall supplement automatic controls in offices and specialized areas such as conference rooms. Occupancy sensor controls shall be provided in restrooms, electrical rooms, telecommunications rooms and similar spaces. Interior ambient illumination shall provide a generally glare free, high quality lighting environment and conform to IESNA RP-1-04. Lighting fixtures with dimming ballasts capable of dimming to one percent shall be provided in conference rooms."

   (b) Note 3 reads as follows: "Telecommunications Systems. The project's facilities must connect to the Installation telecommunications (voice and data) system through the outside plant (OSP) underground infrastructure per I3A guidance. Connections to the OSP cabling system shall be from each facility main cross connect located in the main telecommunications room or telecommunications equipment room to the closest OSP access point. Components include the physical cable plant and the supporting structures. Items included under OSP infrastructure encompass, but are not limited to, maintenance hole and duct infrastructure, copper cable, fiber optic cable, cross connects, terminations, splices, cable vaults, and copper and FO entrance facilities. All COF workstations shall have voice and data connection capability. All conference rooms shall have voice and data connection capability. Treat the COF Readiness Module open area as I3A 'other' space providing a minimum of one dual outlet per 500 SF of gross building space."

(c) A new note 4 was added and reads as follows: “Telecommunications Rooms shall be provided for voice and data. There shall be a minimum of one room on each floor, located as near the center of the building as practicable, and stacked between floors. The telecommunications rooms will be designed in accordance with the I3A Guide and ANSI/EIA/TIA-569-B.”

(d) A new note 5 was added and reads as follows: “Telecommunications outlets. Telecommunications outlets will be provided per the I3A technical guide based on functional purpose of the various spaces with the facility as modified by user special operational requirements. Telecommunications infrastructure will meet the Installation Information Infrastructure Architecture (I3A) Guide and ANSI/TIA/EIA requirements. The telecommunications system will consist of cabling, pathways, supporting structures, and outlets.”

(e) Previous notes 4 and 5 were renumbered to notes 6 and 7.

(f) Note 6 was renumbered to note 8 and was revised to read: “Cable Trays. Provide cable tray pathways through-out the facility (Admin and Readiness Modules) to support the systems required for the construction of the facility as well as user's computer networks, video integration system, telecommunication systems and other specialized electronic systems.”

5. Table 1: Room Size and Furnishings Chart (paragraph 3.3.5) was revised in the following manner:

(a) Revised the Furniture required column for ADMIN by deleting the minimum filing space.

(b) Revised the Furniture required column for PLATOON to read as follows: “For each 150 SF office, 2 desks to accommodate computers, 2 task chairs, 2 bookcases for manuals, two 4-drawer file cabinets.”

(c) The requirements for the conference room, arms vault, unit storage, communications storage, NBC Storage, and Secure Storage were added to the table. The following entries correspond to the Room, Description, NSF, Comments, and Furniture Required columns in the table:

“CONF. ROOM Conference Room Varies CONFERENCE ROOM Conference Table with 10 chairs and 6 side chairs.

ARMS VAULT Arms Vault Varies CONSTRUCTED IN ACCORDANCE WITH AR 190-11, APP G. 1 desk to accommodate a computer, 1 task chair, 1 bookcase for manuals, one 4-drawer file cabinet, and 1 work bench.

UNIT STOR. Unit Storage Varies STORAGE ROOM 1 desk to accommodate a computer, 1 task chair, 1 bookcase for manuals, 4 lockable metal cabinets with shelves, two 4-drawer file cabinets, industrial shelving approximately 10’wx4’dx6’h each - 2 total for small COFs, 4 for medium, and 6 for large.

COMM. STOR. Comm. Storage Varies STORAGE ROOM 1 desk to accommodate a computer, 1 task chair, one 4-drawer file cabinet, and 4 lockable metal cabinets with shelves.

NBC STORAGE NBC Storage Varies STORAGE ROOM 1 desk to accommodate a computer, 1 task chair, one 4-drawer file cabinet, and 4 lockable metal cabinets with shelves.

SECURE STOR. Secure Storage Varies STORAGE ROOM 4 lockable metal cabinet with shelves and industrial shelving approximately 10'wx4'dx6'h each - 1 for small COFs, 2 for medium, and 3 for large."

6. COF Table 2 was revised in the following manner:

   (a) Revised the word "CIRCULATION" in the left column of the table to read "CIRCULATION/WALLS".

   (b) Under UNICOF-H, the CIRCULATION/WALLS area for ADMIN 3 CO was changed to "1,587" from "1,464", ADMIN 4 CO was changed to "1,184" from "1,091", ADMIN 5 CO was changed to "909" from "835", and ADMIN 6 CO was changed to "727" from "671". The GROSS –ADMIN MODULE AREA PER COMPANY (SF) area for ADMIN 3 CO was changed to "4,946" from "4,823", ADMIN 4 CO was changed to "3,710" from "3,617", ADMIN 5 CO was changed to "2,968" from "2,894", and ADMIN 6 CO was changed to "2,473" from "2,417".

   (c) Under UNICOF-L with detached admin configurations., the CIRCULATION/WALLS areas for ADMIN 3 CO was changed to "1,587" from "1,464", ADMIN 4 CO was changed to "1,184" from "1,091", ADMIN 5 CO was changed to "909" from "835", and ADMIN 6 CO was changed to "727" from "671". The GROSS –ADMIN MODULE AREA PER COMPANY (SF) area for ADMIN 3 CO was changed to "4,946" from "4,823", ADMIN 4 CO was changed to "3,710" from "3,617", ADMIN 5 CO was changed to "2,968" from "2,894", and ADMIN 6 CO was changed to "2,473" from "2,417".

   (d) Deleted Notes 1 and 3 to the table, made the following revisions to the remaining two notes, and renumbered them

   Note 1: All platoon offices in the 6 company COF configuration are located in the readiness module mezzanine or equivalent expansion space. In the 5 company configuration, platoon offices for 3 companies are located in the readiness module and platoon offices for 2 companies remain in the admin module. Mezzanine or equivalent expansion space is required to be provided in each company readiness module at time of initial construction.

   Note 2: The gross area per company shown is based on the STANDARD MECHANICAL ROOM and MEN's/WOMEN's LOCKERS & SHOWER area for less than 600 personnel. The admin module gross area remains the same for the larger size options for these spaces, but requires displacement of platoon offices to the readiness module mezzanine or equivalent expansion space."

7. Paragraph 3.4.7 was revised to read as follows: "The drawing below shows possible arrangements for relative locations of the Administration module and the Readiness module. Other orientations between the Admin and Readiness Modules are permissible to accommodate local geographic site constraints."

8. Paragraph 3.5 References was revised by deleting reference 7.

REV 1.0 *15 May 2006*

1. Baseline Document

PARAGRAPH 3 – DINING FACILITY (EPDF)

REV 6.0 *30 March 2012*

1. Revised in its entirety to match new paragraph 3 formatting.

REV 5.5 *31 May 2011*

1. Added a requirement for a hose bib in the mechanical room
2. Added a requirement for a HC door operator push button for permanent party facilities
3. Elaborated on the fully accessible requirements to include the beverage line
4. Added a solid aluminum door threshold at the receiving vestibule from the loading dock
5. Corrected the ceiling finish in the communications room to comply with I3A
6. Included specific exterior lighting requirements for the loading dock(5 foot-candles), loading dock ramp(2 foot-candles), and sidewalks(1 foot-candle) adjacent to the building.
7. Hardwire flush and faucet sensors to eliminate the need for battery replacement
8. Provide a local alarm on the exit only door by the locker room
9. Add wall guards to protect the walls from mobile carts in the receiving vestibule.
10. Add counter requirement to headcount stations
11. Added covered exterior stair on 2 story dining facility
12. Restrict the use of surface mounted panels in the kitchen/serving areas of the facility.
13. Add a requirement for ceiling mounted drop cords in lieu of floor “stub-up” receptacles which are prone to damage.
14. Update the finish in the locker room to full height wall tile.
15. Updated the locker count from 42 to 44 in the 500PP facility as lockers are provided in groups of 4.
16. Added chrome plating ASTM B 650 for piping which is chrome plated.
17. Added options for the flooring in the walk-in coolers/freezer.
18. Added a statement to restrict the use of exposed ductwork.
19. Added “polished” finish (ILO broom finish) sealed concrete floor in walk-in cooler/freezer.

20. Deleted the walls extending to the underside of the deck in the Dry and Paper Storage rooms and changed the ceiling to a GWB ceiling.

21. Clarified the loading dock as a NFPA ordinary hazard group 2 classification.

22. Restricted the use of interior grease and solids interceptors.

REV 5.4 *31 January 2011*

1. Updated the number of lockers required for the 2600TNG facility from 113 to 112. Lockers are provided in a 4 tier configuration.

2. Added Slab Frost Heave Protection for all freezers greater than 225 square feet.

3. Added Tray Drop-Off and Beverage Serving Lines to Finish Schedule

4. Revised the portable generator connection requirements

5. Added loading dock depth and width requirements.

6. Added foot operated hand wash sinks for food service areas

7. Deleted Wainscot wall finish in restrooms

REV 5.3 *30 November 2010*

1. Added Automated Teller Machine (ATM) Power and Data receptacles to Permanent Party Facilities

2. Added a clarification to the calculation of the hot water demand for the 30% to be provided by solar methodologies.

3. Modified the Dishwash room exhaust requirements

4. Clarified bulk CO2 access hatch requirements to specify refill from the loading dock

REV 5.2 *30 September 2010*

1. Added manual on/off switch for the serving line hood exhaust fans.

2. Revised ceiling in the Can Wash Room to GWB

3. Added requirement for spare receptacles at serving and soda stations.

4. Added requirement for empty conduit system where IDS is required.

5. Added requirement for power/telephone/data in the locker room.

6. Revised the soda line requirement from 6” to 8” conduits.

7. Added Remote Soda Room requirements to table 3-1.

REV 5.1 *30 June 2010*

1. Included a requirement to coordinate the loading ramp stair with adjacent site design / site conditions.

2. Moved the grease interceptor requirements to the SITE PLANNING AND DESIGN Paragraph.

3. Added a solids interceptor requirement to the SITE PLANNING AND DESIGN Paragraph.

4. Specified a roof access dimension to match UFC 3-600-01 requirements for a 3 story building.

5. Updated the TV mounting bracket requirement from 42” to 60”.

6. Included boot brushes with the boot wash equipment.

7. Specified a membrane wall in the can wash room.

8. Defined rigid pavement as concrete in loading lock area.

9. Highlighted requirement for a loading dock ramp and loading dock stair.

10. Updated the Finish Schedule to include a recycle room and exit corridor.

11. Added a requirement for a thermal break in exterior window frames.

12. Emphasized the soda syrup conduit requirement from the remote soda room to the soda stations.

13. Deleted “Stepped Bus” Disconnect for the generator disconnect.

14. Identified PA zones for the facility.

15. Highlighted air curtain velocity requirements and locations to include the drive-thru window.

16. Adjusted Make-Up Air cooling/heating temperature requirements.

17. Added requirement for the Building Energy Performance to be 40% below the minimum requirements of ANSI/ASHRAE/IESNA 90-1-2007.

REV 5.0 31 July 2009

1. This revision contains minor changes indicated in RED, to the supporting scope of work for new dining facilities to reflect lessons learned from projects under construction or in design after award. Most edits are clarifications to engineering criteria.

2. Was updated with a major revision to re-organize the requirements by discipline in the same order as paragraphs 5 and 6. This will allow easier identification of discipline specific RFP requirements.

REV 4.8 30 April 2009

1. This revision contains minor changes indicated in RED, to the supporting scope of work for new dining facilities to reflect lessons learned from projects under construction or in design after award. Most edits are clarifications to engineering criteria.

2. Incorporated the tempering of hot water in the plumbing drains, added grease interceptor sizing requirements, clarified some signage requirements and added the ORTC locker room requirements to table 3.1

REV 4.7 31 October 2008

1. This revision contains minor changes indicated in RED, to the supporting scope of work for new dining facilities to reflect lessons learned from projects under construction or in design after award. Most edits are clarifications to engineering criteria.

2. Plumbing: Added requirement for a water quality analysis be performed.

3. Electrical: Updated Mass Notification Requirements and removed lighting requirements already covered by APPLICABLE CRITERIA.

4. Interior Design: Corrected the ceiling type for the communications room and added staffing requirements for the offices.

5. Corrected a couple of prior revisions editing errors.

REV 4.6 31 July 2008

1. This revision contains minor changes indicated in RED, to the supporting scope of work for new dining facilities to reflect lessons learned from projects under construction or in design after award. Most edits are clarifications to engineering criteria.

2. Mechanical: Added grease interceptors requirements.

3. Plumbing: Added floor drain requirements and soda line conduits from the remote beverage room to the individual beverage stations.

4. Electrical: Added lighting requirements under the canopies, TVSS, clarified portable generator requirements, and added requirements for Mass Notification and PA systems.

5. Interior Design: Added minimum furnishing requirements.

REV 4.5 28 March 2008

1. This revision contains minor changes indicated in RED, to the supporting scope of work for new dining facilities to reflect lessons learned from projects under construction or in design after award. Most edits are clarifications to engineering criteria.

REV 4.4 15 December 2007

1. Added the following to the end of Paragraph 3.1.5.1:

   "Telecommunications design must be performed and stamped by a Registered Communications Distribution Designer (RCDD) with 2 yrs related experience or person with 5 yrs related experience. The information systems designer must prepare the test plan, and witness and certify the testing of telecommunications cabling. In the I3A Technical Guide, the word "shall" shall be substituted for the word "should" throughout the document. The I3A Technical Guide shall be considered to be MANDATORY Criteria."

REV 4.3 *09 October 2007*

1. Replaces Tables 3-1 and 3-2 in entirety. This change corrects room designation inconsistencies and has been coordinated with updated prototype plans available from the Dining Facility COS for inclusion in Appendix J.

REV 4.2 *14 September 2007*

1. This revision contains minor changes indicated in RED, to the supporting scope of work for new dining adapt-build plans to reflect lessons learned from projects under construction or in design after award, and from feedback from the Army Worldwide Food Service Conference. Most edits are clarifications to engineering criteria and finishes.

REV 4.1 *15 August 2007*

1. Revised all references from old numbering system to Master Format 2004

REV 4.0 *30 July 2007*

1. Paragraph 3 is replaced in entirety. This revision contains major changes to the supporting scope of work for new dining adapt-build plans to reflect lessons learned from projects under construction or in design after award, and from feedback from the Army Worldwide Food Service Conference.

   (a) All wording has been fully coordinated with language in new plans.

   (b) Redundant language has been eliminated. Text no longer pertinent to the adapt-build model has been eliminated.

   (c) There are some minor changes to the Tables.

   - Functional requirements have been updated.
   - Finish schedule is updated.

REV 3.0 *15 April 2007*

1. This contains major changes to incorporate new standard design floor plans for adapt-build construction.

   (a) All menus have been deleted.

   (b) All adjacency and functional information and charts have been deleted except those that directly apply to performance requirements not specifically covered in the standard designs.

   (c) Reference to Army Technical Bulletin TB Med 530 has been added. Some of the significant requirements for the design and construction of dining facilities have been called out within this section.

      i. Paragraph 3.1.11. Precedence has been stated where conflict arises between TB Med 530 and other parts of this RFP.

   (d) Table 3-1 is added to incorporate performance requirements previously contained in Table 3-2 B that directly apply to performance requirements not specifically covered in the standard designs.

   (e) Table 3-2 is added to direct minimum finish standards.

REV 2.0 *15 October 2006*

1. This contains numerous changes throughout the document as a result of lessons learned. This section should replace all previous sections in entirety.

REV 1.0 *15 May 2006*

1. Baseline Document

PARAGRAPH 3 – BRIGADE AND BATTALION HEADQUARTERS FACILITY (BDE/BN HQ)

REV 5.1 *31 January 2012*

1. Added "Family Resource Services Administrator (FRSA), to paragraph 3.2.1.A-1)

2. Added "TSVA, and the NOC secure parking area" to note 8 of 3.2.1.A-3)

3. Added "Family Resource Services Administrator (FRSA), to paragraph 3.2.1.B-1)

4. Revised paragraph 3.2.1.D SCIF Zone 3 to read as follows:

   "…..facility that is supervised by and primarily supports the S-2 staff section. It is a restricted space that needs to have ground level access to an enclosure, i.e. the Tactical SCIF Vehicle Area (TSVA), capable of containing up to 5 HMMWVs….."

5. Added "It needs to have ground level access to an adjoining exterior enclosure capable of containing up to 2 HMMWVs (High-Mobility Multipurpose Wheeled Vehicles) with trailers in a controlled area" to 3.2.1.D NOC Zone 3

6. Revised paragraph 3.3.C

7. Added paragraph 3.3.D <u>TACTICAL NOC VEHICLE AREAS AT BRIGADE HEADQUARTERS</u>

8. Revised 3.5.C to read <u>WINDOWS</u>.

9. Removed 3.5.F <u>MESSAGE CENTER</u> and renumber rest of section.

10. Added paragrarph 3.9.C-3) **<u>Data Connections for Tactical NOC Vehicle Area</u>**

11. Revised paragraph 3.9.D-6)

12. Removed Message Center from 3.19.1.B Room and Furnishings Chart

13. Revised Appendix A Drawings as follows:
    a. Added showers to the Men's restrooms.
    b. Remove the Message Center.
    c. Add the Family Resource Services Administrator (FRSA) office.
    d. Added secure parking adjacent to the NOC for the Brigade only

REV 5.0 *31 October 2012*

1. Revised in its entirety to match new paragraph 3 formatting.

REV 4.1 *23 January 2012*

1. Revised and updated all floor plans except Combined BN/BDE HQ layout to provide for anticipated area increases necessary to incorporate new energy saving features (increased thermal barriers and more efficient mechanical/electrical equipment).

REV 4.0 *28 November 2011*

1. **3.2.3 Functional Space Descriptions and Performance Requirements**

   (a) SCIF - Changed second sentence to read: It is a restricted space that needs to have ground level access to an enclosure capable of containing up to<REV>5</REV> HMMWVs (High-Mobility Multipurpose Wheeled Vehicles) <REV>and 4 larger</REV> tactical vehicles with trailers in a controlled area. Complimentary technological and procedural methods are used to control access.

2. **3.3.2 Architecture Design**

   (a) (1) Moved Item 2, “Building Entrance”, to be Item 1.

   (b) Deleted Item (2) entitled “Natural Lighting” and replaced it with the following:

   (2) <REV>Windows. Provide windows for natural lighting in all Security Zone 1 and 2 office areas, ensuring compliance with anti-terrorism/force protection and physical security requirements. Areas where classified material (both physical and electronic format) is handled, stored, processed, or discussed shall be limited to non-operable windows. This prohibition extends to locations with components for SIPRNET and to other devices processing classified data, which includes all private offices and conference rooms. When fixed windows are provided in rooms authorized for SIPRNET, the following potential problem areas must be addressed:

   - Ensure TEMPEST is mitigated by using TEMPEST approved equipment and shielded or fiber optic cabling.
   - Provide provision for window curtains and/or blinds, or application of a one way film to the window glazing.
   - Provide provision for curtains that can be drawn across windows were audio from classified VTC sessions has the potential of being transmitted through window glazing.

   [Windows are not authorized in the Brigade Headquarters Security Zone 3 areas.]</REV> The bracketed item is to toggle for Brigade HQ only.

   (c) (3) Sound Insulation - Deleted reference to DCID 6/9 and inserted the replaced requirement of ICS 705.

   (d) (8) BOC - Added the last sentence to the paragraph: <REV> The main floor (non-sloping) shall be on one level, with raised access flooring to accommodate changing the equipment and the room layout. It shall be configured in a lecture-style arrangement, with clear sight-lines to the wall of knowledge. A conference room shall be provided adjacent to the BOC. Refer to the standard design layout and furnishings chart for the required number and size of workstations. </REV>

   (e) (9) SCIF - Deleted reference to DCID 6/9 and inserted the replaced requirement of ICS 705.

3. **3.3.5 Electrical and Communication Systems**

   (a) (1) [Exterior Electrical. Subparagraph (b), the following has been inserted before the last sentence: <REV> Four large tactical vehicles shall each have a load of 100 amps and five smaller vehicles (HMMWV) shall each have a load of 60 amps, all at 208 volts, 3-phase. A general purpose 120 volt receptacle also shall be provided at each vehicle. </REV>

   (b) (3) a. iv. Receptacles. Added the following to the last sentence: <REV>The use of furred structural columns or perimeter walls are the preferred method of power and telecommunication distribution to systems furniture workstations. Under-floor conduits shall be used only if no other alternative exists. [Second floor penetrations above the SCIF area shall be avoided.] </REV> The bracketed item is to toggle for Brigade HQ only.

   (c) (3) c. Telecommunications. Added the following subparagraph: <REV>iii. Telecommunications Distribution. Tele-Poles shall not be used. The uses of existing architectural columns or perimeter walls are the preferred method of power and telecommunications distribution to systems furniture workstations. Under-floor conduits shall be used only if no other alternative exists, and shall be designed and installed IAW TIA/EIA-569-B. Under-floor outlet boxes shall also contain a spare conduit for future expansion. [Second floor penetrations above the SCIF area shall be avoided.] </REV> The bracketed item is to toggle for Brigade HQ only.

   (d) (3) c. iv. Changed section number.

   (e) (3) c. v. Changed section number.

   (f) (3) d. iii. Changed wording in this paragraph to read: Secure VTC<REV>capability</REV> shall be provided in each [<REV></REV> <REV>conference room (but not team rooms)][<REV></REV><REV>,and in the Brigade Headquarters BOC and SCIF</REV>]. The bracketed item is to toggle for Brigade HQ only.

4. **3.4.2 Room Size and Furnishings Chart**

   (a) SCIF - Deleted reference to DCID 6/9 and added ICS 705.

5. **3.5 REFERENCES**

   (a) Deleted reference to DCID 6/9.

   (b) Added reference to ICS 705.

REV 3.9 *20 October 2010*

1. 3.3.1 Site Design (1)

   (a) First sentence has been revised to read as follows: “A parking area for 5 HMMWV vehicles and 4 MRAP’s, as utilized by the unit, shall be located in the secure area and immediately adjacent to the interior SCIF”.

2. 3.3.3 Fire Protection

(a) (10) Building Construction. First sentence has been revised to read as follows: “Construction shall comply with requirements of UFC 3-600-01, the International Building Code, NFPA 101 and NFPA 75”.

(b) (10) Building Construction. Subparagraph (C) has been added and reads as follows: “Server rooms and other portions of the facility which house MISSION CRITICAL electronic equipment installations (as defined in section 6-8 of UFC 3-600-01), shall be separated from surrounding occupancies by fire-resistance rated construction in accordance with NFPA 75”.

3. 3.3.4 Mechanical

(a) (2) Design Data. TABLE I: EQUIPMENT LOADS (BRIGADE ONLY), BOC (Open Office) Watts value has been revised to 14550.

(b) (4) HVAC System Requirements for Administrative Areas. Second and third sentences have been revised to read as follows: “A pass-word protected control device (i.e. control panel) located within the Duty Officer’s area is the preferred design approach and arrangement. A separate, dedicated HVAC unit independent of the main building HVAC system shall be provided for the Duty Officer’s area, and shall be scheduled for after-normal hour operation only”.

4. 3.3.5 Electrical and Communication Systems

(a) (1) [Exterior Electrical. Subparagraph (b), the following has been inserted before the last sentence: “4 (MRAP) vehicles shall each have a load of 100 amps and 5 (HMMWV) vehicles shall each have a load of 60 amps, all at 208 volts, 3-phase. A general purpose 120 volt receptacle also shall be provided at each vehicle”.]

(b) (2) Exterior Communication. Subparagraph (b) has been revised to read as follows: “[Data Connections for Tactical SCIF Vehicle Area (TSVA). Provide underground Protective Distribution System (PDS) pathway for telecommunications connectivity from the SCIF in the main building to each TSVA vehicle. Weatherproof tactical interface boxes (TIB) are required for each vehicle and shall be designed and provided to prevent damage from the vehicles. A TIB shall be provided for secure vehicle system connections, non-secure NIPRnet, Telephone, and IDS. Connectors for all systems shall be included in the TIBs that match the current Tactical Vehicle connections. The TIBs shall be connected into the underground pathway system that provides access to the building SCIF. Connection to all data networks (including NIPRnet, SIPRnet, NSAnet/TDN-2, and/or any other network required) shall be established through singlemode fiber optic cabling unless otherwise specified. Connection points shall be designed to service and prevent damage from the vehicles. Pathways terminating in the SCIF shall terminate in the server rooms. Connection requirements shall be coordinated with the User.]”

(c) (3) Interior Electrical and Communications. Subparagraph (j), the following has been inserted as item ii: “Server rooms and other portions of the facility which house MISSION CRITICAL electronic equipment installations (as defined in section 6-8 of UFC 3-600-01), and utilize raised floor systems shall have smoke detectors installed in the space beneath the flooring panels in accordance with NFPA 75. Under-floor detectors shall be

connected to the fire alarm system and shall be wired so as to immediately cut power to the electronic equipment in the protected room upon activation". All following paragraphs have been renumbered accordingly.

5. 3.4.2 Room Size and Furnishings Chart

   (a) Message Center furniture required has been revised to read as follows: "Provide 24" deep counter equivalent to the length of the room".

REV 3.8 30 June 2010

1. 3.3.1.3 Brigade Headquarters Adjacency Matrix Note No. 6 **-** The reference to two vehicles was changed to nine.

2. 3.3.4 Mechanical - Table I: Equipment Loads (Brigade Only): Revise watt values for SCIF Open Office and BOC Open Office.

3. 3.3.7 Compliance with the ENERGY POLICY ACT OF 2005 (EPACT)

   (a) Revised existing heading description from "Compliance with the ENERGY POLICY ACT OF 2005" to "Energy Conservation"

   (b) Revise title of description of paragraph 3.3.7(1) from "EPACT 2005 Requirements" to "Energy Performance".

   (c) Revise "30%" to "40%" in para 3.3.7(1)

   (d) Add new text addressing "plug loads" in para 3.3.7(1).

   (e) Delete paragraphs 3.3.7(2), 3.3.7 (3), 3.3.7(3)a, 3.3.7(3)b, and 3.3.7(4).

   (f) Add new paragraphs 3.3.7(2) and 3.3.7 (3)

   (g) Deleted the following tables: "List of Army Bases by County in the United States"

   (h) Deleted the following table: "Climate Zones for Army Facilities in Japan and South Korea"

   (i) Deleted the following tables for all climatic zones: "Climate Zone EPACT 2005 Target Energy Budgets for Selected Army Facility Types"

   (j) Revise table "BHQ Climate Zone Prescriptive Solution Tables" as follows for all climate zones:

      (ii) Revise portion of table heading from …"Prescriptive Solution"… to … "Energy Conservation Features".

      (iii) Revise "Recommendation" to "Minimum Requirements"

      (iv) Delete "Baseline" text and all associated entries in the Baseline column.

      (v) Delete the following item rows and all associated information: HVAC, Economizer, and Ventilation

4. Revise the Notes as follows:

   (a) Delete the following text statement which is located directly beneath the title "Notes": "Baseline requirements are from ANSI/ASHRAE/IESNA Standard 90.1-2004."

   (b) Add "Omitted" for note #1.

   (c) Renumber all other existing notes (thru note 7) based on the revision made for note 1.

   (d) Revise "Prescriptive Solution" in existing Note #6 to "Energy Conservation Features"

   (e) Add new note #8 which is entitled as "Schedules"

5. Revise table "Battalion Headquarters Internal Load Schedules" to "Battalion and Brigade Headquarters Internal Load Schedules

   (a) In existing table "Battalion Headquarters Internal Load Schedules", delete "53 occupants" and add new note that references "Note 1".

   (b) Add new "Note 1" beneath the existing table entitled "Battalion Headquarters Internal Load Schedules".

6. Electrical and Communications Systems - Paragraph 3.3.5 (3) (d) Secure Communications; Added sentence at end of paragraph.

7. Appendix Drawing Revisions:

   (a) On every drawing on each floor we consolidated the Telecommunications room and the SIPRNET room to allow for one large room or the option of separating them per installation preference.

REV 3.7 *30 April 2010*

1. **3.3.2 Architecture Design (3) Sound Insulation**

   (a) The following bracketed option has been inserted after the first sentence: "[The SCIF conference room, due to the possibility of amplified audio, shall meet Sound Group 4 performance criteria - STC 50 or better in accordance with DCID 6/9]."

2. **3.3.4 Mechanical (2) (a)**

   (a) The second and third sentences have been revised to read as follows: "For baseline purposes, estimated internal equipment loads (i.e. heat dissipation) shall be as follows: For [NOC, BOC, and SCIF areas, use Table I: Equipment Loads;] Communication-type rooms/areas (Tele/Comm, SIPRNet, etc), use 585 watts. For administrative/office-type areas…"

   (b) The second to last bracketed sentence this paragraph has been omitted in its entirety.

   (c) Table I: Equipment Loads (BRIGADE ONLY) has been inserted, existing Tables I and II have been renumbered to II and III, respectively.

(d) Previous Table I (currently Table II: INDOOR DESIGN DATA) second row, which read “Unoccupied Space Design Temperature 55° F” has been deleted in its entirety.

(e) Previous Table II (currently Table III: Redundancy/Reliability Matrix (Brigade Only)) third row, “Piping”, fourth column “Requirement”, has been edited to read as follows: “Provide 100% redundant cooling [and heating] piping feeds from the cooling [and heating] source equipment to the air-handling equipment serving these areas.”

(f) Previous Table II (currently Table III: Redundancy/Reliability Matrix (Brigade Only)), “Notes:”, have been expanded to include bracketed item 7 which reads: “[7. Redundant heating piping feeds are not required to be extended to the individual air terminal units (i.e. VAV boxes) in VAV air handling systems.]”

3. **3.3.5 Electrical and Communications Systems, 3. (d)**

(a) Third to last sentence has been revised to read as follows: “Surface mounted raceway shall be used instead of the surface mounted conduit unless otherwise directed by the local NEC/DOIM”.

4. **3.3.7 Compliance with the ENERGY POLICY ACT OF 2005 (EPACT 2005)**

(a) All references to the year “2004”, with regard to ASHRAE 90.1, at second and third columns of all Climate Zone tables have been omitted.

5. **3.4.2 Room Size and Furnishings Chart**

(a) File Room, last column “Furniture Required”, has been revised to read as follows: “Minimum of 1 linear foot of 4-drawer lateral file cabinet for every 4 SF of room (250 SF room = min 62.5 LF 4-drawer horizontal base files; (1) 36”(w), 4-drawer file cabinet = 12 LF).

(b) BOC, last column “Furniture Required”, has been revised to read as follows: “Provision for Government-Furnished, Government-Installed television monitors (wall of knowledge). Systems furniture workstations, 30"D x 60"W, with 42"-48"H powered panels, and one stationary box/box/file pedestal and task chair per workstation as indicated on standard floor plans. Modular conference tables and chairs for 10 persons (with side chairs as space allows) at conference room. Contractor furnished, contractor installed raised flooring.”

(c) SCIF, third column “comments” has been revised to read as follows: “Sensitive Compartmented Information Facility conforming to DCID Manual 6/9 and Office of the Director of National Intelligence – DRAFT Intelligence Community Standard Number 2009-705-1”.

(d) SCIF, last column “Furniture Required” has been revised to read as follows: “50 - 52 total systems furniture workstations, 30"D x 60"W, with 42"-48"H powered panels, and one stationary box/box/file pedestal and task chair per workstation as indicated on standard floor plans. Modular conference tables and chairs for 12 persons (with side chairs as space allows) at conference room. Contractor furnished, contractor installed raised flooring to accommodate weight of 7 four drawer safes. Primary entry vestibule (interior) shall accommodate (1) 24” D x 36” W standing height table. Provide (1) cell phone storage locker to

accommodate 50 individual cell phones adjacent to primary SCIF entry at corridor side."

(e) NOC, last column "Furniture Required", has been revised to read as follows: "Systems furniture workstation, approx. 48 SF, with work surfaces, file drawers and overhead storage as indicated on standard floor plans. Space for GFGI communication racks, equipment, and 3 each work benches in server room. Contractor furnished, contractor installed raised flooring".

6. **Consolidated Battalion Brigade Floor Plans**

1st Floor:

(a) Brigade Headquarters Men's restroom has been reconfigured. Fixture count has been increased by the addition of (1) urinal and (1) toilet.

2nd Floor:

(b) Brigade Headquarters Men's restroom has been reconfigured, no changes to the fixture count.

7. **X-Large Brigade Floor Plans**

1st and 2nd Floor:

(a) First and second floor Men's restrooms have been reconfigured. Fixture counts have been increased by the addition of (1) urinal and (1) toilet - each floor.

8. **Large Brigade Floor Plans**

1st Floor:

(a) Men's restroom has been reconfigured. Fixture count has been increased by the addition of (1) urinal and (1) toilet.

2nd Floor

(b) Men's restroom has been reconfigured, no changes to the fixture count.

9. **Idealized Tactical SCIF Vehicle Area (TSVA) at Brigade Headquarters Site Plan**

(a) This drawing has been added and inserted at the end of the Brigade Headquarters floor plans.

REV 3.6 31 March 2010

1. **<u>Appendix Drawing Revisions:</u>**

(a) **Consolidated Battalion Brigade Floor Plans**

Consolidated First Floor Plan

1. NOC/BOC have been minimally reduced in size to accommodate 30" x 60" workstations at all areas of the SCIF and BOC. SCIF GEOINT, vestibules, and open office areas have been redesigned as well.

2. Battalion wing TOILETS, SIPRNET, and TELECOM rooms have been reconfigured to allow for physical separation between battalions by inclusion of doors at these areas.

Consolidated Second Floor Plan

1. Brigade area has been physically separated from the building core / battalion wing through the inclusion of doors.
2. Battalion wing TOILETS, SIPRNET, and TELECOM rooms have been reconfigured to allow for physical separation between battalions by inclusion of doors at these areas.

Consolidated Third Floor Plan

1. Battalion wing TOILETS, SIPRNET, and TELECOM rooms have been reconfigured to allow for physical separation between battalions by inclusion of doors at these areas.

(b) **X-Large, Large, Medium, and Small Brigade Floor Plans**

First Floor Plan

1. NOC/BOC have been minimally reduced in size to accommodate 30" x 60" workstations at all areas of the SCIF and BOC. SCIF GEOINT, vestibules, and open office areas have been redesigned as well.

(c) **X-Small Brigade Floor Plans**

First Floor Plan

1. SCIF has been updated to accommodate 30" x 60" workstations at all areas. Vestibules and open office areas have been reconfigured as well.

REV 3.5 28 February 2010

1. **3.2.3 Functional Space Descriptions and Performance Requirements**

(a) BOC Zone 3, last sentence has been omitted.

(b) SCIF Zone 3 second sentence has been revised to indicate “9 HMMWVs (High-Mobility Multipurpose Wheeled Vehicles) or other large tactical vehicles”.

2. **3.3.1 Site Design**

(a) (1), first sentence has been revised to indicate 9 HMMWVs (High-Mobility Multipurpose Wheeled Vehicles) or other large tactical vehicles, as utilized by the unit”.

(b) The following sentence has been inserted between the second and third sentence: “This area shall have an unobstructed exposure to the southwestern sky for direct satellite communication”.

(c) 2) has been revised to read “provide approximately 13,000 square feet of rigid concrete pavement designed to support HMMWV vehicles or other large tactical vehicles, as utilized by the unit, with trailers”

3. **3.3.2 Architecture Design**

(a) (1) Phrase “natural lighting and ventilation” at first sentence has been revised to read “natural lighting and / or ventilation”.

4. **3.3.5 (1) (b) Power Connections for Tactical SCIF Vehicle Area (TSVA).**

(a) The second sentence has been revised to read as follows: “Power shall be capable of accommodating user power requirements to each tactical SCIF vehicle for manned and unmanned platform support without using the platform’s onboard power”.

5. **3.3.5 (2) (b) Data Connections for Tactical SCIF Vehicle Area (TSVA)**

(a) The first sentence has been revised to read as follows: “Provide underground pathway systems for telecommunications connectivity from the SCIF in the main building to each TSVA vehicle”.

6. **3.3.5 (3) (a) Electrical**

(a) iv. Receptacles, second to last sentence has been revised to read: “A duplex receptacle shall be accessibly located adjacent to each voice, data and CATV outlet”.

(b) vi UPS systems, first sentence has been revised to include SIPRNET and now reads: “UPS to serve the BOC, NOC, SCIF, server rooms, SIPRNET and communication rooms shall be provided”.

7. **3.3.5 (3) (c) Telecommunications, i Telecommunications Rooms (TR),**

(a) First bracketed option pertaining to the Brigade Headquarters SCIF has been revised to read: [, and the Brigade Headquarters SCIF Server room (single mode fiber only), BOC AV Server room and NOC server room”

(b) Second bracketed option (last sentence) has been revised to include the BOC and now reads: “[Telecommunications within the Brigade Headquarters SCIF, BOC and NOC shall be distributed from the respective Server Room.]”

(c) Last bulleted item with regard to Brigade Headquarters Only at TR requirements has been revised and reads as follows:

- [(Brigade Headquarters Only) Dedicated emergency /UPS power panel for all active equipment.]

(d) Tables and notes, which define the minimum area of the telecommunications rooms (TR), approved through ISEC, have been added immediately following the TR requirements and include the following:

- Brigade Headquarters
- Battalion Headquarters
- Consolidated Brigade-Battalion Headquarters

(e) ii Telecommunications Outlets. Third sentence has been revised to read as follows:

"Each conference room [and classroom] shall have voice capability (minimum one outlet per room) and data connection capability (minimum one outlet per person in accordance with I3A".

(f) (d) Secure Communications, I, the statement "with six strands of single mode fiber optic cable terminated on patch panels" has been omitted from the last sentence. This sentence now reads as follows: "The connection to the main telecommunications room will be via a single 2-inch trade size steel conduit in accordance with the I3A Criteria".

(g) (d) ii Secret Internet Protocol Router Network (SIPRNet), the fifth sentence which read "The total number of outlets (drops) provided shall not exceed 25 percent of all staff in the building" has been omitted in its entirety.

8. **3.4.2 Room Size and Furnishing Chart**

(a) Senior Executive Office, Furniture Required, "L-shaped" desk has been revised to read "U-shaped".

(b) Reception Area, Furniture Required, revised to indicate "(5 guest chairs)".

9. **<u>Appendix Drawing Revisions:</u>**

(a) **Consolidated Battalion Brigade Floor Plans**

Consolidated First Floor Plan

2. The Brigade first floor plan has been replaced in its entirety and now reflects the latest adapt build model.
3. The Battalion command sections have been revised. The S-1 office has been swapped with the SR HR SGT office to provide the S-1 with direct access to the Command Suite.

Consolidated Second Floor Plan

3. The Brigade second floor plan has been replaced in its entirety and now reflects the latest adapt build model.
4. The Battalion command sections have been revised. The S-1 office has been swapped with the SR HR SGT office to provide the S-1 with direct access to the Command Suite.

Consolidated Third Floor Plan

2. The Battalion command sections have been revised. The S-1 office has been swapped with the SR HR SGT office to provide the S-1 with direct access to the Command Suite.

(b) **Large Brigade Floor Plans**

1. The Large Brigade first floor plan has been replaced in its entirety and now reflects the latest adapt build model.
2. The Large Brigade second floor plan has been replaced in its entirety and now reflects the latest adapt build model.

(c) **Medium Battalion Floor Plans**

1. First floor Command Suite and Mechanical area has been reconfigured to relocate the BN Commander's office to the corner of the building. TELE/COMM and SIPRNET rooms have also been revised.
2. Second floor plan TELE/COMM room has been relocated and is now stacked above first floor TELE/COMM room.

(d) **Small Battalion Floor Plans**

1. First floor Command Suite and Mechanical area has been reconfigured to relocate the BN Commander's office to the corner of the building.
2. Second floor plan TELE/COMM room has been relocated and is now stacked above first floor TELE/COMM room.

REV 3.4 31 December 2009

1. Paragraph 3.2.3 Functional Space Descriptions and Performance Requirements

   (A) BOC Zone 3, revised.

2. 3.3.2 Architecture Design (8) the phrase "(wall of knowledge)" has been inserted at end of first sentence.

3. 3.3.2 Architecture Design (9) the following has been inserted to the first sentence: "and Office of the Director of National Intelligence – Intelligence Community Standard Number 2009-705-1. The SCIF shall be".

4. The following paragraph has been inserted:

   3.3.6 Structural Design

   (1) Structural Floor Load Requirement for Brigade Secure Documents Room. The floor system for the Secure Documents room of the Brigade Headquarters Facility shall be designed to store up to 12 safe/file-cabinets. The empty shipping dead load of the cabinet is approximately 1021 lbs each. The live load of the safe/file-cabinet will be based on the latest approved addition of IBC for a "Heavy Storage" of 250 psf.

5. Existing paragraph 3.3.6 Compliance with the ENERGY POLICY ACT OF 2005 (EPACT 2005) has been revised in its entirety and renumbered to 3.3.7.

6. 3.4.2 Room Size and Furnishings Chart - the phrase "Table 8" has been removed from the chart heading and now reads: "Room Size and Furnishings Chart".

7. 3.4.2 Room Size and Furnishings Chart

   (a) BOC: Furniture Required column has been revised to read as follows: "Provision for Government-Furnished, Government-Installed television monitors (wall of knowledge). Computer tables and chairs for 15 persons. Modular conference tables and chairs for 10 persons with 3 side chairs".

   (b) SCIF: Furniture Required column, first sentence has been revised to read as follows: "52 open office workspaces, modular conference tables and chairs for 12 persons with 4 side chairs".

(c) BOC: Furniture Required column has been revised to read as follows: "8 each Open office workstations. Space for GFGI communication racks, equipment, and 3 each work benches in server room".

8. The following reference has been inserted at 3.5 References, (2) Applicable Military Criteria: "Office of the Director of National Intelligence – DRAFT Intelligence Community Standard Number 2009-705-1".

9. Drawing Revisions:

   (a) Consolidated Headquarters First Floor Plan NOC/BOC areas have been revised, door added to S-1/4 open office area.

   (b) Extra Large Brigade First Floor Plan NOC/BOC areas have been revised.

   (c) Large Brigade First Floor Plan NOC/BOC areas have been revised, exterior door added to S-1/4 open office area.

   (d) Medium Brigade First Floor Plan NOC/BOC areas have been revised.

   (e) Small Brigade First Floor Plan NOC/BOC areas have been revised.

   (f) Extra Large Battalion First and Second Floor Plans have been revised (stairs and second floor break area).

   (g) Large Battalion Second Floor Plan has been revised (stair and break area).

REV 3.3 *30 September 2009*

1. Paragraph 3.3.5 (2)(a); change “guide” to “criteria”.

2. Paragraph 3.3.5 (2)(c); change “guide” to “criteria”.

3. Paragraph 3.3.5 (2)(d)i.; change “guide” to “criteria”.

4. Paragraph 3.3.5 (2)(d)ii.; change “guide” to “criteria”.

5. Paragraph 3.3.5 (2)(e); change “guide” to “criteria”.

6. Paragraph 3.3.5 (2)(i); change “guide” to “criteria”.

7. Add new Paragraph 3.3.6, Compliance with the Energy Policy Act of 2005.

REV 3.2 *30 August 2009*

1. Revised paragraph numbering - Paragraph 3.3.5 (2).

2. Added paragraph numbering - Paragraph 3.3.5(2)b.

3. Revised wording - Paragraph 3.4.2, Table 8: Room Size and Furnishings Chart, for Classroom, Lobby, Message Center, Secured Documents Room, and SCIF.

4. Revised Drawings as follows:

(a) Consolidated first floor foot print changed as well as the interior layout of the NOC, BOC and SCIF.

(b) Consolidated second floor of Brigade changed.

(c) Consolidated third floor roof plan changed.

(d) X-Large BDE first floor layout changed in the NOC, BOC and SCIF areas.

(e) Large BDE first floor layout changed in the NOC, BOC and SCIF areas as well as the size and foot print of the building. Second floor building size changed.

(f) Med BDE first floor and second floor layout change throughout.

(g) Small BDE first floor layout changed in the NOC, BOC and SCIF areas as well as the foot print building size. Second floor size changed.

(h) Small BDE first floor layout changed in the NOC, BOC and SCIF areas.

(i) X-Small BDE first floor layout changed in the SCIF area.

(j) Large BN second floor layout had minor changes.

(k) Medium BN first and second floor had door swing changes.

(l) Small BN second floor had door swing changes.

(m) Note for provisional changes to standard floor plans revised on each drawing sheet.

REV 3.1 30 April 2009

1. Revised Paragraph 3.3.5 as follows:

(a) 3.3.5 (1) Paragraph renamed Exterior Electrical

(b) 3.3.5 (1) (c) Provisions added for Security Infrastructure in the Brigade Headquarters Tactical SCIF Vehicle Area (TSVA).

(c) 3.3.5 (2) Paragraph renamed Exterior Communication

(d) 3.3.5 (2) (a) Paragraph added for Outside Plant Telecommunications Systems

(e) 3.3.5 (2) (a) Simplified paragraph by removing the word “multimode” from fiber optic cable description that will be provided by others.

(f) 3.3.5 (3) (c) Paragraph revised with an added general description of the telecommunications system.

(g) 3.3.5 (3) (c) i Paragraph revised with better organized and clarified telecommunications room requirements.

(h) 3.3.5 (3) (c) ii Paragraph revised by deleting redundant requirements, redefining the outlet density in conference rooms and classrooms to that specified in I3A, and updated the word “vault” to secure storage rooms.

(i) 3.3.5 (3) (g) Added the SCIF corridor, and rear exit to the Brigade

2. Added the extra small Brigade and extra large Battalion.

3. Revised every drawing updating the size and layout of the Telecommunications rooms.

REV 3.0 *27 February 2009*

1. Added para in 3.1 related to Adapt-Build Model

2. Para 3.2.1.1 removed the word preferred

3. Deleted the words “May be combined” in note 1 of the BDE adjacency matrix

4. Deleted the word Preferred from 3.2.2.1

5. Deleted the words “May be combined” in note 1 of the BN adjacency matrix

6. Para 3.3.1 (1) Changed first sentence from TSOA to TSVA.

7. Para 3.3.3 (2) Deleted this paragraph. And changed numbering of subsequent para.

8. Para 3.3.3.(2) Changed the word preliminary to interim

9. Para 3.3.3(4)(b), Exterior Hose Stream: Delete the second sentence which states: "This shall be 250 gpm for light hazard and 500 gpm for ordinary hazard".

10. Para 3.3.4 (2) (a) added optional requirements to two areas in the paragraph.

11. TABLE II: REDUNDANCY/RELIABILITY MATRIX (BRIGADE ONLY) table was revised to automate the inclusion of redundant heating for extremely cold climates The radio toggle button description should indicate the following: 'Will redundant heating be required in extremely cold climates for the secure/critical areas listed in Table II?'. This will preface when this option needs to be selected by RFP preparers.

12. Deleted the words “Life Cycle Cost Analysis and” from note 2 in same Table II .

13. Para 3.3.5 (1)(b) Changed from TSOA to TSVA

14. Para 3.3.5(2) Changed from TSOA to TSVA

15. Para 3.3.5(3)(a)v Changed from TSOA to TSVA

16. Changed 3rd sentence of Paragraph 3.3.5 (3) (a) from: voice/data to voice, data to insure that a receptacle will be in the vicinity for all (both stand alone and combined) voice and data receptacles.

17. Deleted the entire Paragraph 3.3.5 (3) (c) removing the RSDD registration and system testing requirement. These items have been added to Chapter 5.

18. Deleted the first sentence of Paragraph 3.3.5 (3) (d) (i), the following phrase in parenthesis, and the next two words of the following sentence. This shall all be replaced by the added text below.

19. Added text at the beginning of Paragraph 3.3.5 (3) (d) (i) (replacing the above deleted text) clarifying the secure communications room requirements.

20. Added a phrase at the end of Paragraph 3.3.5 (3) (d) (i) (before the period) requiring fiber optic cable to be installed in the cable between the main telecommunications room and the secure communications room.

21. Deleted the first sentence of Paragraph 3.3.5 (3) (d) (ii). This shall all be replaced by the added text below.

22. Inserted text at the beginning of Paragraph 3.3.5 (3) (d) (ii) (replacing the above deleted text) to clarify the SIPRNET distribution requirements and add a specification section (by reference) as requested by ISEC.

23. **Wizard Note:** The bracketed sentence [Distribution shall include the SCIF, BOC, and NOC in the Brigade Headquarters.] shall appear only in Brigade Headquarter solicitations and shall not appear in Battalion Headquarter solicitations.

24. Added sentence at the end of Paragraph 3.3.5 (3) (d) (iii) to clarify the videoteleconferencing requirements.

25. Changed the 9th word of the first sentence of Paragraph 3.3.5 (3) (f) ii from the to each. This will insure each building in a multi building solicitation will have a paging system.

26. Added sentence at the end of Paragraph 3.3.5 (3) (f) (iii): to clarify the secure videoteleconferencing requirements.

27. Para 3.3.5(3)(g)I Changed from TSOA to TSVA

28. Delete the word Draft in parenthesis in the Unified Facilities Criteria UFC in Paragraph 3.5 to correct the reference as it has been finalized.

REV 2.6 31 October 2008

1. Revised 3.1.2 Gross Building Area to read:

   Gross areas of facilities shall be computed according to subparagraphs below. Maximum gross area limits indicated in Paragraph 2.0, SCOPE, may not be exceeded. A smaller overall gross area is permissible if all established net area program requirements are met.

   (1) Enclosed Spaces. The gross area includes the total area of all floors, including basements, mezzanines, penthouses, usable attic or sloping spaces used to accommodate mechanical equipment or for storage with an average height of 6'-11" measured from the underside of the structural system and with the perimeter walls measuring a minimum of 4'-11" in height, and other enclosed spaces as determined by the effective outside dimensions of the building.

   (2) One-Half Spaces. One-half of the area will be included in the gross area for balconies and porches; exterior covered loading platforms or facilities, either

depressed, ground level, or raised; covered but not enclosed passageways or walks; covered and uncovered but open stairs; and covered ramps.

(3) Excluded Spaces. Crawl spaces; exterior uncovered loading platforms or facilities, either depressed, ground level, or raised; exterior insulation applied to existing buildings; open courtyards; open paved terraces'; roof overhangs and soffits for weather protection; uncovered ramps; uncovered stoops; and utility tunnels and raceways will be excluded from the gross area.

2. 3.3.2.9 SCIF added revision: shall be designed and constructed for accreditation

3. 3.3.3.4a Revision added: The sprinkler service main shall be provided with an exterior post indicator valve with tamper switch reporting to the fire alarm control panel (FACP)

4. 3.3.3.8: Deleted existing and added: Fire flow test data is provided in Appendix D

5. 3.3.3.10, Deleted existing and added: Fire Alarm and Detection: Refer to 3.3.5, Electrical and Communication Systems, for requirements.

6. 3.3.3.11a Change title by added the words "and Brackets" Deleted the paragraph and replaced with: Fire Extinguisher cabinets and brackets shall be provided when fire extinguishers are required by UFC 3-600-01 and NFPA 101. Placement of cabinets and brackets shall be in accordance with NFPA 10. Semi-recessed cabinets shall be provided in finished areas and brackets shall be provided in non-finished areas (such as utility rooms, storage rooms, shops, and vehicle bays). Fire extinguishers shall not be provided in this contract.

7. 3.3.4.3e Deleted first sentence.

8. 3.3.5.3a v Stand-by-Power added the words: TSOA Vehicles,

9. 3.3.5c v Deleted this paragraph and moved vi up to v.

10. 3.3.5f ii, Change the word will to shall

11. 3.3.5j ii Added the word "utilizing" and "wiring" in the first sentence. Deleted "Style Z". Deleted the last sentence.

REV 2.5 *24 June 2008*

1. Added Paragraph 3.1.6 Adapt-Build Guidance to be included for Task Orders only.

REV 2.4 *18 April 2008*

1. Revised paragraph 3.2.1.1 to include the Legal Staff offices in the list of offices. Changed the names of the Mail Room to message center and mail sorting and changed the name of the secure documents vault to secure documents room.
2. Revised paragraph 3.3.2 by adding a description of the message center, the secure documents room and the NOC. Revised description of the BOC and the SCIF.
3. Revised paragraph 3.3.5 (3a) vi and added vii. Revised same paragraph (3e) , (3g) , (3g i) , (3j iv)
4. Revised Table 3.4.2 Room Size and Furnishings Chart. Added clarification to the Break Room and the Shower room that the equipment listed is contractor furnished and installed. Revised the Senior Executive, Executive and Private Office furnishings.

5. Revised the following drawings:

   a. Consolidated First floor added 110SF legal office and eliminated one open office in the Brigade area. Changed label to Message Center
   b. Extra Large Brigade First floor plan- Change the existing s-4 storage area to a legal office and added a new storage room next to it. Revised the open offices to adjust for the new room and change the text in one of the large legal offices.
   c. Large Brigade first floor added 110SF legal office and eliminated one open office in the Brigade area. Change to message center
   d. Medium Brigade second floor, change the label of 110 SF Legal office to Op Law Judge Adv.
   e. Small Brigade second floor, change the location of the Surgeon office, reduced the team room size, relocated the LNO storage room and the FSE storage room and created a new 110 SF Legal office called OP Law Judge Adv.
   f. Large Battalion change label to Message Center.

REV 2.3 *04 December 2007*

1. Revised the Bn and Bde HQ floor plans to indicate a change in nomenclature for the "SECURE DOCUMENTS ROOM" (previously labeled as Secure Documents Vault)

2. Revised Paragraph 3.2.1.1 to include indication of space for secure documents room.

3. Revise Paragraph 3.4.2, TABLE 8: ROOM SIZE AND FURNISHINGS CHART, "SECURE DOCUMENTS ROOM", to indicate inclusion of space for a secure documents room in brigade HQ to accommodate 2 four drawer safes per coordinating staff section.

REV 2.2 *19 November 2007*

1. Revise the 5th sentence in paragraph 3.3.5(3)(c)ii.

2. Add two paragraphs (v. and vi.) to paragraph 3.3.5(3)(c).

3. Drawings: (the drawings have been previously provided)

   (a) Small Battalion: Revised first floor Restrooms

   (b) Medium Battalion: Revised first and second floor Restrooms

   (c) Large Battalion: Revised location of door Women’s Restroom

   (d) Consolidated BDE/BN: Revised first floor Communication Room / SIPRNET room into two separate rooms on both the Battalion side and the Brigade side.

   (e) Extra Large Brigade: Revised second floor door location into the Tele/Comm Room

   (f) Large Brigade: Revised first floor Communication Room / SIPRNET room into two separate rooms with separate doors.

REV 2.1 *09 October 2007*

1. Added an additional question to the Brigade page as to whether redundant heating will be required. This change will affect Table II. **This change will only affect projects with the fiscal year of FY2008.**

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 2.0 *10 September 2007*

1. This contains numerous changes throughout the document as a result of lessons learned. This section should replace all previous sections in entirety. **This change will only affect projects with the fiscal year of FY2008.**

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 1.2 *15 June 2007*

1. Under Paragraph 3.2.1.3, Table 1: Brigade Combat Team Programmatic Space Requirements was revised in the following manner:

   (a) In the S-1 Section for Special Spaces add "Reenlistment/Career Counseling" under Position, "P" under Type, and "100" under Area (sf). The Special Spaces Subtotal was changed to "856". The Total S-1 (Personnel) Total was changed to "2,044".

   (b) In the Common/Support Area, the Subtotal of all net spaces was changed to "29,530", the Mechanical Room @ 7% was changed to "2,067", Telecommunications @ 2% was changed to "591", Electrical @ 1% was changed to "295", and Total Net Area was changed to "32,483".

   (c) Under Net to Gross Conversion, the Total Net Space was changed to "32,483", the Primary Egress and Inter Organizational Circulation was changed to "7,146", and the Total Building Area was changed to "39,629".

2. Under Paragraph 3.2.2.3 (1), Table 4: Small Battalion HQ Programmatic Space Requirements was revised in the following manner:

   (a) In the S-1/S-4 Section for Special Spaces add "Reenlistment/Career Counseling" under Position, "P" under Type, and "100" under Area (sf). The Total S-1/S-4 Total was changed to "1,406".

   (b) The Subtotal – Sections and Common Areas was changed to "6,501", the Mechanical @ 7% was changed to "455", the Communications @ 2% was changed to "130", the Electrical @ 1% was changed to "65", the Total Net Area was changed to "7,151", the Primary Egress and Inter Organizational Circulation was changed to "1,573", and the Total Building Area was changed to "8,724", and the Total Building Area with Classrooms was changed to "12,839".

3. Under Paragraph 3.2.2.3 (2), Table 5: Medium Battalion HQ Programmatic Space Requirements was revised in the following manner:

(a) In the S-1/S-4 Section for Special Spaces add “Reenlistment/Career Counseling” under Position, “P” under Type, and “100” under Area (sf). The Total S-1/S-4 Total was changed to “1,752”.

(b) The Subtotal – Sections and Common Areas was changed to “8,245”, the Mechanical @ 7% was changed to “577”, the Communications @ 2% was changed to “165”, the Electrical @ 1% was changed to “82”, the Total Net Area was changed to “9,069”, the Primary Egress and Inter Organizational Circulation was changed to “1,995”, and the Total Building Area was changed to “11,064”, and the Total Building Area with Classrooms was changed to “15,179”.

4. Under Paragraph 3.2.2.3 (3), Table 6: Large Battalion HQ Programmatic Space Requirements was revised in the following manner:

(a) In the S-1/S-4 Section for Special Spaces add “Reenlistment/Career Counseling” under Position, “P” under Type, and “100” under Area (sf). The Total S-1/S-4 Total was changed to “2,278”.

(b) The Subtotal – Sections and Common Areas was changed to “10,057”, the Mechanical @ 7% was changed to “704”, the Communications @ 2% was changed to “201”, the Electrical @ 1% was changed to “101”, the Total Net Area was changed to “11,063”, the Primary Egress and Inter Organizational Circulation was changed to “2,434”, and the Total Building Area was changed to “13,497”, and the Total Building Area with Classrooms was changed to “17,612”.

5. In Paragraph 3.2.3.4 (1), the following revisions were made:

(a) The next to last sentence was revised to read as follows: “The functional diagrams for the Brigade Combat Team are shown below (Figures 1 and 2).”

(b) Figure 1 was replaced with a new bubble diagram for the first floor of the stand-alone Brigade Combat Team (BCT) Brigade Headquarters conceptual layout.

(c) Figure 2 was replaced with a new bubble diagram for the second floor of the stand-alone Brigade Combat Team (BCT) Brigade Headquarters conceptual layout.

(d) Figure 3 was deleted and the caption “Stand-alone BCT Brigade Headquarters conceptual layout – Isometric View” was changed to “Not Used”.

6. In Paragraph 3.2.3.4 (2), delete “,along with the associated resource room” from the end of the fourth sentence.

7. In Paragraph 3.2.4.4 (1) revised to “Not Used”.

8. In Paragraph 3.2.4.5 (1) (b) replace the word “systems” with “areas (BOC, NOC, SCIF and Server/Communication Rooms)”.

9. In Paragraph 3.2.4.5 (1) (c) add the following “in BOC, NOC, SCIF and Server/Communication Rooms” to the end of the first sentence.

10. In Paragraph 3.2.4.5 (8) revise the first sentence to read “Provide a secure communications room to accommodate JWICS, SIPRNET and secure video-teleconferencing (VTC).”

11. In Paragraph 3.2.5.1 revise the next to last sentence to read “All open office workstations in the Brigade Headquarters are predicated on 6’x8’ cubicles.”

12. In Paragraph 3.2.5.2 Table 8 Room Size and Furnishings Chart for Room Type DV was revised in the following manner:

    (a) Under Comments, delete the following “VAULT CONFORMING TO FED SPEC AA-V-2737 WITH CLASS V VAULT DOOR AND DAY GATE IS ACCEPTABLE”.

    (b) Under Furniture Required, revise the last sentence to read “Provide 2 four drawer safes per coordinating staff section in battalion and brigade document vaults, not to exceed a total of 12 safes in either the battalion or brigade secure document vault.”

13. Combat Aviation Brigade – CAB, Figures 1 and 2 were replaced with a new bubble diagram for the first and second floors, respectively, of the stand-alone Combat Aviation Brigade Headquarters conceptual layout.

14. Combat Aviation Brigade – CAB, Space Program Table: Combat Aviation Brigade Programmatic Space Requirements, the table was revised in the following manner:

    (a) The method of calculating the Intra Office Circulation @ 20% area for all sections was changed to be based only on the total area of the private and open offices. The total area of all sections changed accordingly.

    (b) In the S-1 Section under Special Spaces, add “Reenlistment/Career Counseling” under Position, “P” under Type, and “100” under Area (sf); add “Message Mail Center” under Position and “120” under Area (sf), and add “Central Files” under Position and “90” under Area (sf). Revise the Special Space Subtotal to “364”.

    (c) In the S-2 Section under Special Spaces, add “Secure Vault” under Position and “90” under Area (sf). Revise the Special Space Subtotal to “324”.

    (d) In the S-3 Section under Special Specials, add “Central Files” under Position and “90” under Area (sf). Revise the Special Space Subtotal to “414”.

    (e) In the S-4 Section under Special Specials, add “Central Files” under Position and “90” under Area (sf). Revise the Special Space Subtotal to “324”.

    (f) Under Net Admin Program, Other was changed to “1,030”, Circulation was changed to “1,944”, and Total Admin Space was changed to “15,034”.

    (g) The Subtotal – Sections and Common Areas was changed to “22,069”, the Mechanical @ 7% was changed to “1,545”, the Telecommunications @ 2% was changed to “441”, the Electrical @ 1% was changed to “221”, the Total Net Area was changed to “24,276”, the Primary Egress and Inter Organizational Circulation was changed to “5,341”, and the Total Building Area was changed to “29,617”.

15. Combat Support Brigade – CSB, Space Program Table: Combat Support Brigade Programmatic Space Requirements, the table was revised in the following manner:

(a) The method of calculating the Intra Office Circulation @ 20% area for all sections was changed to be based only on the total area of the private and open offices. The total area of all sections changed accordingly.

(b) In the S-1 Section under Special Spaces, add “Reenlistment/Career Counseling” under Position, “P” under Type, and “100” under Area (sf); and add “Message Mail Center” under Position and “120” under Area (sf). Revise the Special Space Subtotal to “382”.

(c) In the S-3 Section under Special Specials, add “Central Files” under Position and “90” under Area (sf). Revise the Special Space Subtotal to “351.

(d) In the S-4 Section under Special Specials, add “Central Files” under Position and “90” under Area (sf). Revise the Special Space Subtotal to “351”.

(e) Under Net Admin Program, Other was changed to “1,444”, Circulation was changed to “2,832”, and Total Admin Space was changed to “21,811”.

(f) The Subtotal – Sections and Common Areas was changed to “28,549”, the Mechanical @ 7% was changed to “1,998”, the Telecommunications @ 2% was changed to “571”, the Electrical @ 1% was changed to “285”, the Total Net Area was changed to “31,403”, the Primary Egress and Inter Organizational Circulation was changed to “6,909”, and the Total Building Area was changed to “38,312”.

16. Fires Brigade – FB, Figures 1 and 2 were replaced with a new bubble diagram for the first and second floors, respectively, of the stand-alone Fires Brigade Headquarters conceptual layout.

17. Fires Brigade – FB, Space Program Table: Fires Brigade Programmatic Space Requirements, the table was revised in the following manner:

(a) The method of calculating the Intra Office Circulation @ 20% area for all sections was changed to be based only on the total area of the private and open offices. The total area of all sections changed accordingly.

(b) In the Sustainment Section under Special Spaces, add “Reenlistment/Career Counseling” under Position, “P” under Type, and “100” under Area (sf); add “Message Mail Center” under Position and “120” under Area (sf), and add “Central Files” under Position and “180” under Area (sf). Revise the Special Space Subtotal to “454”.

(c) In the S-2 Section under Special Spaces, add “Secure Vault” under Position and “90” under Area (sf). Revise the Special Space Subtotal to “441”.

(d) In the S-3 Section under Special Specials, add “Central Files” under Position and “90” under Area (sf). Revise the Special Space Subtotal to “504”.

(e) Under Net Admin Program, Other was changed to “1,030”, Circulation was changed to “2,084”, and Total Admin Space was changed to “16,171”.

(f) The Subtotal – Sections and Common Areas was changed to “23,899”, the Mechanical @ 7% was changed to “1,673”, the Telecommunications @ 2% was changed to “478”, the Electrical @ 1% was changed to “239”, the Total Net Area was changed to “26,289”, the Primary Egress and Inter Organizational

Circulation was changed to “5,784”, and the Total Building Area was changed to “32,073”.

18. Battlefield Surveillance Brigade – BFSB, Space Program Table: Battlefield Surveillance Brigade Programmatic Space Requirements, the table was revised in the following manner:

    (a) The method of calculating the Intra Office Circulation @ 20% area for all sections was changed to be based only on the total area of the private and open offices. The total area of all sections changed accordingly.

    (b) In the S-1 Section under Special Spaces, add “Reenlistment/Career Counseling” under Position, “P” under Type, and “100” under Area (sf); add “Message Mail Center” under Position and “120” under Area (sf), and add “Central Files” under Position and “90” under Area (sf). Revise the Special Space Subtotal to “571”.

    (c) In the S-3 Section under Special Specials, add “Central Files” under Position and “90” under Area (sf). Revise the Special Space Subtotal to “810”.

    (d) In the S-4 Section under Special Specials, add “Central Files” under Position and “90” under Area (sf). Revise the Special Space Subtotal to “441”.

    (e) Under Net Admin Program, Other was changed to “1,030”, Circulation was changed to “2,482”, and Total Admin Space was changed to “19,216”.

    (f) The Subtotal – Sections and Common Areas was changed to “28,948”, the Mechanical @ 7% was changed to “2,026”, the Telecommunications @ 2% was changed to “579”, the Electrical @ 1% was changed to “289”, the Total Net Area was changed to “31,842”, the Primary Egress and Inter Organizational Circulation was changed to “7,005”, and the Total Building Area was changed to “38,847”.

19. Sustainment Brigade – SB, Figures 1 and 2 were replaced with a new bubble diagram for the first and second floors, respectively, of the stand-alone Sustainment Brigade Headquarters conceptual layout.

20. Sustainment Brigade – SB, Space Program Table Sustainment Brigade Programmatic Space Requirements, the table was revised in the following manner:

    (a) The method of calculating the Intra Office Circulation @ 20% area for all sections was changed to be based only on the total area of the private and open offices. The total area of all sections changed accordingly.

    (b) In the S-1 Section under Special Spaces, add “Reenlistment/Career Counseling” under Position, “P” under Type, and “100” under Area (sf); add “Message Mail Center” under Position and “120” under Area (sf), and add “Central Files” under Position and “90” under Area (sf). Revise the Special Space Subtotal to “391”.

    (c) In the S-3 Section under Special Specials, add “Central Files” under Position and “90” under Area (sf). Revise the Special Space Subtotal to “378”.

    (d) In the S-4 Section under Special Specials, add “Central Files” under Position and “90” under Area (sf). Revise the Special Space Subtotal to “351”.

(e) Under Net Admin Program, Other was changed to “1,164”, Circulation was changed to “4,456”, and Total Admin Space was changed to “33,777”.

(f) The Subtotal – Sections and Common Areas was changed to “41,100”, the Mechanical @ 7% was changed to “2,877”, the Telecommunications @ 2% was changed to “822”, the Electrical @ 1% was changed to “411”, the Total Net Area was changed to “45,210”, the Primary Egress and Inter Organizational Circulation was changed to “9,946”, and the Total Building Area was changed to “55,156”.

REV 1.1 15 October 2006

1. Paragraph 3.1.3: was revised to add the reference to the Room Size and Furnishings Chart. The first sentence was revised to read:

   “Net area requirements for functional spaces are included in the space program table[s] and Room Size and Furnishings Chart.”

2. Paragraph 3.2.1.1: was revised to add private offices for the S-7 officers and to provide space for the staff duty station.

   (a) The third and fourth sentences were revised to read:

   “Private offices will be provided for the commanding officer, executive officer, command sergeant major, S-1 officer, S-2 officer, S-3 officer, S-4 officer, S-6 officer, S-7 officers, re-enlistment, surgeon, chaplain, and assistant chaplain. Space will also be provided for clerical and central files, conference room, staff duty station, reception, showers, supplies and vending.”

   (b) The following new sentence was added to the paragraph:

   “A staff duty station shall be provided at primary entrances to the building, whether the brigade headquarters is located in a combined Battalion/Brigade HQ (Concept 1) or as a stand-alone building (Concepts 2 and 3).”

3. Paragraph 3.2.1.2. Table 1 – Brigade Headquarters Adjacency Matrix was revised in the following areas:

   (a) The column and row data for the Zone 3 columns and rows for the relationship of the SCIF to the S2 Intelligence, the BOC to the S3 Operations, and the NOC to the S6 Communications was changed from a “0” to a “2”.

   (b) The table revision indicator was added to the bottom of the table in the format “* - Denotes Revision”

   (c) Matrix note 3 was deleted.

   (d) Matrix note 4 was revised by deleting “may be”. The revised note reads “S5 Plans: combined with S3.”

   (e) Matrix note 6 was revised by changing “May collocate” to “collocated”. The revised note reads “Chemical, Biological, Radiological, Nuclear and Explosives: collocated with S3.”

   (f) Matrix notes 8, 9, and 10 were added:

"8. A variance is permitted for the required adjacencies between the SCIF, BOC, & NOC and the Brigade staff sections in the consolidated Battalion/Brigade HQ concept (Concept 1). The intent is to allow for the consolidation of the SCIF, BOC, and NOC on the ground floor for ease of deployment and to accommodate the adjacency requirement between the SCIF and SCIF-ready vehicle parking area. The SCIF, BOC, and NOC may be segregated from the other brigade staff sections, however, all other staff sections must be consolidated in one contiguous area (i.e. on the same floor) of the consolidated facility.

9. The staff sections for each brigade and battalion headquarters shall be consolidated on a single floor, and the brigade staff sections shall be physically separated from battalion staff sections in the consolidated Battalion/Brigade HQ concept (Concept 1).

10. Office labeled 'Protection' is the MP section in the Combat Support Brigade (Maneuver Enhancement)."

4. Paragraph 3.2.1.3.: was revised to add the reference to the Room Size and Furnishings Chart.

   (a) The fourth sentence was revised to read:

   "These rooms are further explained in notes below each program table and in the Room Size and Furnishings Chart."

   (b) The following new sentence was added to the paragraph:

   "The 'Area' column denotes program area for private offices, open office workstations and all other functional spaces. See the Room Size and Furnishings Chart for net area requirements for private offices and open office workstations. For each private office, use net area indicated on Room Size and Furnishings Chart that is closest to program area."

5. Table 2 – Brigade Combat Team Programmatic Space Requirements under Paragraph 3.2.1.3.: was revised to address changes to room or space type associated with several positions and the revision to several of the notes at the end of the table.

   (a) Under the S-1 Section, change the "O" type for the S1 to "P".

   (b) Under the S-2 Section, change the "O" type for the S2 to "P" and under the Type column for the Document Custodian add "O".

   (c) Under the S-3-S Section, change the "O" type for the Fire Support Coord to "P".

   (d) Under the S-4 Section, change the "O" type for the S4 to "P".

   (e) Under the S-6 Section, change the "O" type for the S6 to "P".

   (f) Under the S-7 Section, the next to last sentence under the last column of the table was revised to change the reference from the "EOC" to the "BOC". The revised sentence reads "The S-7 section needs to have ready access to the SCIF and the BOC."<REV> BOC </REV>. >.

(g) Under Note 1 (a) delete the reference to the mezzanine area for observers by revising the last sentence to read: “In addition to the main floor, the BOC may provide areas adjacent to the floor for smaller collaborative meetings.”

(h) Under Note 1 (b) change the word “dock” to “area” in the second sentence. The revised sentence reads: “It should have access to a loading area to assist in transferring equipment to vehicles or trailers during deployment.”

(i) Under Note 9, revise the number of legal file sized four drawer safes from “32” to “12”.

6. Paragraph 3.2.2.1.: was revised to provide space for the staff duty station.

(a) The fifth sentence was revised to read:

“Space will also be provided for clerical and central files, conference room, staff duty station, message center and mail sorting, reception, secure documents (crypto vault), showers, supplies, toilet facilities, vending, recycle closet, mechanical room, electrical rooms, telecommunication rooms, and classrooms

(b) The following new sentence was added to the paragraph:

“A staff duty station shall be provided at primary entrances to the building, whether the battalion headquarters is located in a combined Battalion/Brigade HQ (Concept 1) or combined with a COF (Concept 2), or as a stand-alone building (Concept 3).”

7. Paragraph 3.2.2.2. Table 3 - Brigade Headquarters Adjacency Matrix was revised in the following areas:

(a) “CLASSROOMS & RESOURCE RM” was deleted from Zone 2. “CLASSROOMS (note 5)” was added to Zone 1 after SAFETY. The only relationship for the CLASSROOMS is with the COMMAND GROUP and an “X” is located at the two intersections of CLASSROOMS and COMMAND GROUP.

(b) Matrix note 3 was revised by deleting “Normally” and “at battalion level” and adding “S5”. The revised note reads “Plans: S5 combined with S3”

(c) Matrix notes 4, 5, and 6 were added:

“4. Battalion staff sections shall be collocated on same floor, and be physically separated from company operations functions in the consolidated Battalion HQ/COF concept (Concept 2).

5. Battalion classrooms are not required to be adjacent to other HQ staff functions. Segregation of classroom traffic from other HQ activities is preferred.

6. Office labeled ‘Protection (WS/3)’ is the MP section in the Combat Support Brigade (Maneuver Enhancement).”

8. Paragraph 3.2.2.3. was revised to add the reference to the Room Size and Furnishings Chart. The following new sentence was added to the paragraph:

“The ‘Area’ column denotes program area for private offices, open office workstations and all other functional spaces. See the Room Size and Furnishings Chart for net area requirements for private offices and open office workstations.

For each private office, use net area indicated on Room Size and Furnishings Chart that is closest to program area. "

9. Paragraph 3.2.2.3. Table 4 – Small Battalion HQ Programmatic Space Requirements was revised by moving the Chaplain and Chaplain Assistant NCO from the S-6 Section to the Command Section. The table was revised in the following manner:

   (a) For the Command Section, under the columns PN, Space, Type, Rank, and Area (SF), add the following "1, Chaplain, P, O3, 150" and "1, Chaplain Assistant NCO, P, E5, 100". Revise the Area (SF) for Personnel Subtotal by changing "560" to "810". Revise the Area (SF) for the Intra Office Circulation by changing "112" to "162". Revise the totals for the section on the row Total – Command Section by changing the "4" under column PN to "6" and the "1,426" under column Area (SF) to "1,726". Add the following two sentences to the existing explanation under the last column of the table:

   "The chaplain and chaplain assistant are outside the area controlled by the commander's assistants. They need ready access to the commander on a recurring basis, but they also have their own visitors who normally should not come inside the command suite."

   (b) For the S-6 Section, under the columns PN, Space, Type, Rank, and Area (SF), delete the following "1, Chaplain, P, O3, 150" and "1, Chaplain Assistant NCO, P, E5, 100". Revise the Area (SF) for Personnel Subtotal by changing "760" to "510". Revise the Area (SF) for the Intra Office Circulation by changing "152" to "102". Revise the totals for the section on the row Total – S-6 (Communications) Section by changing the "9" under column PN to "7" and the "1,042" under column Area (SF) to "742".

10. Paragraph 3.2.2.3. Table 5 – Medium Battalion HQ Programmatic Space Requirements was revised by moving the Chaplain and Chaplain Assistant NCO from the S-6 Section to the Command Section. The table was revised in the following manner:

   (a) For the Command Section, under the columns PN, Space, Type, Rank, and Area (SF), add the following "1, Chaplain, P, O3, 150" and "1, Chaplain Assistant NCO, P, E5, 100". Revise the Area (SF) for Personnel Subtotal by changing "660" to "910". Revise the Area (SF) for the Intra Office Circulation by changing "132" to "182". Revise the totals for the section on the row Total – Command Section by changing the "5" under column PN to "7" and the "1,611" under column Area (SF) to "1,911". Add the following two sentences to the existing explanation under the last column of the table:

   "The chaplain and chaplain assistant are outside the area controlled by the commander's assistants. They need ready access to the commander on a recurring basis, but they also have their own visitors who normally should not come inside the command suite."

   (b) For the S-6 Section, under the columns PN, Space, Type, Rank, and Area (SF), delete the following "1, Chaplain, P, O3, 150" and "1, Chaplain Assistant NCO, P, E5, 100". Revise the Area (SF) for Personnel Subtotal by changing "880" to "630". Revise the Area (SF) for the Intra Office Circulation by changing "176" to "126". Revise the totals for the section on the row Total – S-6 (Communications) Section by changing the "11" under column PN to "9" and the "1,186" under column Area (SF) to "886".

11. Paragraph 3.2.2.3. Table 6 – Large Battalion HQ Programmatic Space Requirements was revised by moving the Chaplain and Chaplain Assistant NCO from the S-6 Section to the Command Section. The table was revised in the following manner:

    (a) For the Command Section, under the columns PN, Space, Type, Rank, and Area (SF), add the following "1, Chaplain, P, O3, 150" and "1, Chaplain Assistant NCO, P, E5, 100". Revise the Area (SF) for Personnel Subtotal by changing "660" to "910". Revise the Area (SF) for the Intra Office Circulation by changing "132" to "182". Revise the totals for the section on the row Total – Command Section by changing the "5" under column PN to "7" and the "1,617" under column Area (SF) to "1,917". Add the following two sentences to the existing explanation under the last column of the table:

    "The chaplain and chaplain assistant are outside the area controlled by the commander's assistants. They need ready access to the commander on a recurring basis, but they also have their own visitors who normally should not come inside the command suite."

    (b) For the S-6 Section, under the columns PN, Space, Type, Rank, and Area (SF), delete the following "1, Chaplain, P, O3, 150" and "1, Chaplain Assistant NCO, P, E5, 100". Revise the Area (SF) for Personnel Subtotal by changing "1,060" to "810". Revise the Area (SF) for the Intra Office Circulation by changing "212" to "162". Revise the totals for the section on the row Total – S-6 (Communications) Section by changing the "14" under column PN to "12" and the "1,402" under column Area (SF) to "1,102".

12. Paragraph 3.2.3.2. was revised to include the following changes and additions:

    (a) Paragraph 3.2.3.2. (1) (b) was revised to read:

    "The individual Brigade HQ and Battalion HQs staff sections shall be on a single, contiguous floor, as if each headquarters were leased space in the large building. The brigade staff sections must be physically separated (by floors or walls) from battalion staff sections."

    (b) Paragraphs 3.2.3.2. (1) (c) and (d) were added and read as follows:

    "(c) The program table included in this document assigns space for battalion-level break rooms, storage rooms and conference rooms. The preferred alternative for a Consolidated Brigade and Battalion Headquarters Building is to consolidate break, storage, and conference spaces for multiple battalions in a single or, as a minimum, a limited of number of locations within the building. The break, storage, and conference spaces within the brigade may also be consolidated, but not in conjunction with the battalion spaces. The Brigade Command Conference room, however, shall be located adjacent to the Brigade Commander's suite, and shall not be consolidated with any other conference space.

    As stated in the battalion headquarters program notes, the battalion classrooms will be consolidated and reduced in square footage by 50% for Concept 1 since the consolidated headquarters option enables alternating use of classrooms by battalions."

13. Paragraph 3.2.3.4.(2) and the associated Figures 11, 12, and 13 were revised in the following manner:

(a) Paragraph 3.2.3.4.(2) was revised by deleting the first sentence.

(b) Figure 11: Stand-alone Battalion Headquarters conceptual layout – First Floor was revised by replacing the S-6 with CONF., replacing S-3 with COMMAND, replacing RESOURCE RM. with VENDING, deleting SUPPORT, combining the S-1/PAC and S-4 into the S-1/PAC/S-4, and moving CONTROL to S-1/PAC/S-4.

(c) Figure 12: Stand-alone Battalion Headquarters conceptual layout – Second Floor was revised by replacing S-2 with S-6, combining S-1 and CONF. and replacing those two areas with S-3, replacing COMMAND with S-2.

(d) Figure 13: Stand-alone Battalion Headquarters conceptual layout – Isometric View was revised to incorporate the changes to Figures 11 and 12.

14. Paragraph 3.2.4.1.(3) was revised to delete the requirement for a specific sized ductbank. The revised first sentence reads “Provide underground pathway systems for telecommunications connectivity and power from the main building to the hardstand area.”

15. Paragraph 3.2.4.2 was revised in the following manner:

(a) Paragraph 3.2.4.2 (3) was revised to read:

“Sound Insulation. [Leave the following sentence in only if a Brigade Headquarters is a part of the project] [Provide sound insulation to meet a minimum rating at doors, walls and floor/ceiling assemblies of STC 50 at all secure Brigade HQ areas such as the Brigade Operations Center (BOC), Network Operations Center (NOC), and Sensitive Compartmented Information Facility (SCIF) (see Brigade building program, section 3.2.1.3, Table 2, for descriptions of these three functional areas) as required per ASTM E413-04, Classification for Rating Sound Insulation.] Provide sound insulation in all [other] areas of the Brigade and/or Battalion HQ to meet a minimum rating of STC 42 at walls and floor/ceiling assemblies and a rating of STC 33 for doors, which are to be solid core wood in a metal frame. In addition to the sound insulation required, video teleconferencing areas shall meet a Noise Criteria (NC) 30 rating in accordance with ASHRAE Fundamentals Handbook.”

(b) Paragraph 3.2.4.2 (4) was revised to read:

“Office and Administrative Areas. The open office areas for each staff section (S-1, and S-2, etc.) should be separated from other staff sections with demountable walls that can be easily relocated as personnel changes are implemented. The intent is to provide visual separation between staff sections within a HQ, with maximum flexibility for future change within open office areas. A similar preference exists for private offices within the staff sections, with the exception that their walls will need to run from floor to ceiling and they will require doors for privacy. The command section offices shall be constructed to provide privacy and sound control in accordance with SOUND INSULATION paragraph above. The intent for the command section offices is to provide a more permanent type of construction, but still to minimize load-bearing walls so as to accommodate future reconfiguration. This same construction requirement exists for walls between HQ in a consolidated HQ facility.”

16. Paragraph 3.2.4.4 (4) was revised to read:

"[The following bullet and table are only required for Brigade HQ facilities. Delete if a Brigade HQ is not a part of the project.] [Systems will comply with the following matrix (see Table 7):]

17. Paragraph 3.2.4.4 Table 7: Redundancy/Reliability Matrix was revised in the following manner:

    (a) The Central Equipment and Associated Controls category has been renamed Heating and Cooling Equipment and Associated Controls and the information contained in the table for this category has been completely revised. This category was subdivided for two groups of Equipment or Areas Served. The information contained for the first group under Equipment or Area Served, Emergency Power, and Requirement, respectively, is as follows: "BOC, SCIF, NOC, Comm. Rooms, and Server areas", "Note 1"., and "Redundancy required for cooling equipment." The information for the second group under Equipment or Area Served, Emergency Power, and Requirement, respectively, is as follows: "General Admin", "No"., and "No redundancy required. See Note 2."

    (b) Sump Pumps and Sewage Ejectors is a new category that is listed after Heating and Cooling Equipment and Associated Controls. The revisions associated with this category are under Category with the addition of "Sump Pumps and Sewage Ejectors" and under Equipment or Area Served with the addition of "Elevators" and "Lift Stations". The information under Emergency Power and Requirement remains unchanged when Sump Pumps and Sewage Ejectors was listed under Equipment or Area Served.

    (c) Under the category Air-Handling Equipment and Associated Controls, the Requirement for the BOC, SCIF, NOC, Communications Rooms, and Server Rooms was changed from "Provide one redundant air handling equipment for each space." to "Airside redundancy required." The Emergency Power for Other Spaces was changed from "Yes" to "No".

    (d) Under category Piping, the first group of Equipment or Area Served has been revised to read "General Admin".

    (e) Note 2 was replaced with the following note:

        "For packaged equipment, two chillers and boilers each at 60 percent capacity are required."

    (f) Notes 3 and 4 were added:

        "3. Equipment requiring emergency power is not required to be on UPS.

        4. For equipment requiring emergency power, controls must have battery back-up or non-volatile memory to facilitate automatic re-start upon restoration of emergency or normal power."

18. Paragraph 3.2.4.5 was revised in the following manner.

    (a) The title of the paragraph was revised to "Electrical and Telecommunications"

    (b) Paragraph 3.2.4.5.(1)(c) was revised to describe the type of UPS batteries. The next to last sentence was revised to read:

        "Provide secondary containment for the UPS batteries (leak proof maintenance-free sealed lead-acid batteries with suspended electrolyte)."

(c) Paragraph 3.2.4.5.(4) was rewritten with the revised paragraph as follows:

"Lighting. The lighting shall be compatible with security cameras and security requirements. Interior lighting controls shall be provided in accordance with ASHRAE 90.1. Local manual controls shall supplement automatic controls in offices and specialized areas such as conference rooms [and the BOC, NOC and SCIF areas]. Occupancy sensor controls shall be provided in restrooms, electrical rooms, telecommunication rooms and similar spaces. Interior ambient illumination shall provide a generally glare free, high quality lighting environment conforming to IESNA RP-1-04. Lighting fixtures with dimming ballasts capable of dimming to one percent shall be provided in conference rooms and classrooms. "

(d) Paragraph 3.2.4.5 (6) was rewritten with the revised paragraph as follows:

"Telecommunications Systems. The project's facilities must connect to the Installation telecommunications (voice and data) system through the outside plant (OSP) underground infrastructure per I3A guidance. Connections to the OSP cabling system shall be from each facility main cross connect located in the main telecommunications room or telecommunications equipment room to the closest OSP access point. Components include the physical cable plant and the supporting structures. Items included under OSP infrastructure encompass, but are not limited to, maintenance hole and duct infrastructure, copper cable, fiber optic cable, cross connects, terminations, splices, cable vaults, and copper and FO entrance facilities. All headquarters workstations shall have voice and data connection capability. All conference rooms and classrooms shall have voice (minimum one outlet) and data connection capability (one outlet per occupant)."

(e) Paragraph 3.2.4.5 (8) was rewritten with the revised paragraph as follows:

"Secure Communications. Provide a secure communications room to accommodate SIPRNET and secure video-teleconferencing (VTC). Secure VTC is required in [the SCIF, BOC, and] the Command Conference Room. Ten percent of all staff in each headquarters will require Secure Internet Protocol Routing Network (SIPRnet) access, installed in accordance with provisions of Technical Guide for the Integration of Secret Internet Protocol Router Network (SIPRNET)."

(f) Paragraph 3.2.4.5(9) was revised to delete spaces in the telecommunications room for classified and unclassified voice. The revised first sentence reads:

"The telecommunications equipment room shall provide space for classified network, unclassified network, and voice."

(g) Paragraph 3.2.4.5 (10) was rewritten with the revised paragraph as follows:

"Telecommunications Rooms shall be provided for classified network and voice and unclassified network and voice. There shall be a minimum of one room on each floor, located as near the center of the building as practicable, and stacked between floors. The telecommunications rooms will be designed in accordance with the I3A Guide and ANSI/EIA/TIA-569-B."

(h) Paragraph 3.2.4.5 (11) was rewritten with the revised paragraph as follows:

"Telecommunications outlets. Telecommunications outlets will be provided per the I3A technical guide based on functional purpose of the various spaces with the facility as modified by user special operational requirements.

Telecommunications infrastructure will meet the Installation Information Infrastructure Architecture (I3A) Guide and ANSI/TIA/EIA requirements. The telecommunications system will consist of cabling, pathways, supporting structures, and outlets."

19. Paragraph 3.2.5.1 was revised by adding the following four sentences to the existing paragraph:

    "Large interior spaces such as open office areas can be subdivided into smaller areas by using office partitions, storage units and file cabinets or similar devices. In general, the interior design shall provide a comfortable, efficient and flexible work environment. All open office workstations in the Brigade Headquarters are predicated on 8'x8' cubicles. All open office workstations in the Battalion Headquarters are predicated on 6'x8' cubicles."

20. Paragraph 3.2.5.2. Table 8: Room Size and Furnishings Chart was revised with the following additions, deletions, and revisions:

    (a) For Room Type A, the Furniture Required was rewritten to read "L-shaped executive desk with two pedestals. Two 4-drawer lateral files, one conference table, four conference chairs, two guest chairs, one executive chair."

    (b) For Room Type C, the hutch was deleted from Furniture Required.

    (c) Room Type O-L was deleted from the table.

    (d) For Room Type O-M, the Min. SF was revised from "100" to "64" and the Furniture Required was revised to read "Systems furniture workstation, approx**.** 64 SF, with work surfaces, file drawers and overhead storage."

    (e) For Room Type O-S, the Min. SF was revised from "60" to "48".

    (f) For Room Type C-1, the Furniture Required was revised to read "Conference Table with 18 chairs and 18 side chairs."

    (g) For Room Type C-2, the Furniture Required was revised to read "Conference Table with 14 chairs and 8 side chairs."

    (h) For Room Type C-3, the Furniture Required was revised to read "Conference Table with 12 chairs and 4 side chairs."

    (i) For Room Type C-4, the Furniture Required was revised to read "Conference Table with 8 chairs and 2 side chairs."

    (j) For Room Type DV, the requirements under the Comments column were revised to delete the requirement for a "Modular" vault. The Furniture Required was rewritten to read:

    "Provide 2 four drawer safes per authorized company within each battalion secure document vault. Provide 2 four drawer safes per coordinating staff section, not to exceed a total of 12 safes for the brigade secure document vault."

    (k) For Room Type BOC, the Furniture Required was revised to read "Provision for Government-Furnished, Government-Installed television monitors. Computer tables and chairs for 15 persons. Conference table and chairs for 4-6 persons."

(l) For Room Type SCIF, the Furniture Required was revised to read “20 each open office workstations. Conference table and chairs for 4-6 persons.”

(m) Room Type NOC was added to the table. The five entries to the table columns are as follows: “NOC NOC Varies NETWORK OPERATIONS CENTER 14 each Open office workstations. Space for GFGI communications racks and equipment.”

21. Paragraph 3.2.6 (9) was added to read “Technical Guide for the Integration of Secret Internet Protocol Router Network (SIPRNET).” Paragraphs “(9), (10), and (11)” are now numbered “(10), (11), and (12)”.

22. Paragraph 3.2.1.3 Table 2 - Combat Aviation Brigade – CAB, Combat Aviation Brigade Programmatic Space Requirements, the notes to the table were revised in the following manner:

    (a) Under the S-4 section, change the Area (sf) for Intra Office Circulation @20% from “47” to “263” and change the Area (sf) for S4 TOTAL from “1,361” to “1,577”.

    (b) Under NET ADMIN PROGRAM, change the Area (sf) for CIRCULATION from “2,286” to “2,504” and TOTAL ADMIN SPACE from “14,796” to “15,014”.

    (c) Under COMMON/SUPPORT AREAS, change the Area (sf) for SUBTOTAL from “21,831” to “22,049”, MECHANICAL ROOM (2) @ 7% from “1,528” to “1,543”, TELECOMMUNICATIONS @ 2% from “437” to “441”, ELECTRICAL @ 1% from “218” to “220”, and the total from “24,104” to “24,253”.

    (d) Under NET TO GROSS CONVERSION, change the Area (sf) for TOTAL NET SPACE from “24,014” to “24,253”, Primary Egress and Inter Organization Circul. @ 22% from “5,283” to “5,336”, and BUILDING TOTAL from “29,297” to “29,589”

    (e) Under Note 1 (a) delete the reference to the mezzanine area for observers by revising the last sentence to read: “In addition to the main floor, the BOC may provide areas adjacent to the floor for smaller collaborative meetings.”

    (f) Under Note 1 (b) change the word “dock” to “area” in the second sentence. The revised sentence reads: “It should have access to a loading area to assist in transferring equipment to vehicles or trailers during deployments.”

    (g) Note 9 was revised to based the size of the secure documents vault on “12” legal file sized four drawer safes and not “32” as originally required by the note.

23. Paragraph 3.2.1.3 Table 2 Combat Support Brigade – CSB, Combat Support Brigade Programmatic Space Requirements, the notes to the table were revised in the following manner:

    (a) Under the SECURE AREAS section, change the Area (sf) for the Total Secure Areas from “3,750” to “5,550”.

    (b) Under the COMMON/SUPPORT AREAS section, change the Area (sf) for SUBTOTAL from “27,233” to “29,033”, MECHANICAL ROOM (2) @ 7% from “1,906” to “2,032”, TELECOMMUNICATIONS @ 2% from “545” to “581”,

ELECTRICAL @ 1% from “272” to “290”, and the sum from “29,956” to “31,936”.

(c) Under the NET TO GROSS CONVERSION, change the Area (sf) for TOTAL NET SPACE from “29,956” to “31,936”, Primary Egress and Inter Organization Circul. @ 22% from “6,590” to “7,026”, and BUILDING TOTAL from “36,546” to “38,962”.

(d) Under Note 1 (a) delete the reference to the mezzanine area for observers by revising the last sentence to read: “In addition to the main floor, the BOC may provide areas adjacent to the floor for smaller collaborative meetings.”

(e) Under Note 1 (b) change the word “dock” to “area” in the second sentence. The revised sentence reads: “It should have access to a loading area to assist in transferring equipment to vehicles or trailers during deployments.”

(f) Note 9 was revised to based the size of the secure documents vault on “12” legal file sized four drawer safes and not “32” as originally required by the note.

24. Paragraph 3.2.1.3 Table 2 Fires Brigade – FB, Fires Brigade Programmatic Space Requirements, the notes to the table were revised in the following manner:

(a) Under the SUSTAINMENT section, change the Area (sf) for SUSTAINMENT TOTAL from “1,564” to “1,841”.

(b) Under NET ADMIN PROGRAM, change the Area (sf) for CIRCULATION from “2,425” to “2,701” and TOTAL ADMIN SPACE from “15,932” to “16,208”.

(c) Under the COMMON/SUPPORT AREAS section, change the Area (sf) for SUBTOTAL from “23,660” to “23,936”, MECHANICAL ROOM (2) @ 7% from “1,656” to “1,676”, TELECOMMUNICATIONS @ 2% from “473” to “479”, ELECTRICAL @ 1% from “237” to “239”, and the sum from “26,026” to “26,330”.

(d) Under the NET TO GROSS CONVERSION, change the Area (sf) for TOTAL NET SPACE from “26,026” to “26,330”, Primary Egress and Inter Organization Circul. @ 22% from “5,726” to “5,793”, and BUILDING TOTAL from “31,751” to “32,123”.

(e) Under Note 1 (a) delete the reference to the mezzanine area for observers by revising the last sentence to read: “In addition to the main floor, the BOC may provide areas adjacent to the floor for smaller collaborative meetings.”

(f) Under Note 1 (b) change the word “dock” to “area” in the second sentence. The revised sentence reads: “It should have access to a loading area to assist in transferring equipment to vehicles or trailers during deployment.”

(g) Note 9 was revised to based the size of the secure documents vault on “12” legal file sized four drawer safes and not “32” as originally required by the note.

25. Paragraph 3.2.1.3 Table 2 Battlefield Surveillance Brigade – BFSB, Battlefield Surveillance Brigade Programmatic Space Requirements, the notes to the table were revised in the following manner:

(a) Under Note 1 (a) delete the reference to the mezzanine area for observers by revising the last sentence to read: “In addition to the main floor, the BOC may provide areas adjacent to the floor for smaller collaborative meetings.”

(b) Under Note 1 (b) change the word “dock” to “area” in the second sentence. The revised sentence reads: “It should have access to a loading area to assist in transferring equipment to vehicles or trailers during deployment.”

(c) Note 9 was revised to based the size of the secure documents vault on “12” legal file sized four drawer safes and not “32” as originally required by the note.

26. Paragraph 3.2.1.3 Table 2 Sustainment Brigade – SB, Sustainment Brigade Programmatic Space Requirements, the notes to the table were revised in the following manner:

(a) Under Note 1 (a) delete the reference to the mezzanine area for observers by revising the last sentence to read: “In addition to the main floor, the BOC may provide areas adjacent to the floor for smaller collaborative meetings.”

(b) Under Note 1 (b) change the word “dock” to “area” in the second sentence. The revised sentence reads: “It should have access to a loading area to assist in transferring equipment to vehicles or trailers during deployment.”

(c) Note 9 was revised to based the size of the secure documents vault on “12” legal file sized four drawer safes and not “32” as originally required by the note.

REV 1.0 15 May 2006

1. Baseline Document

PARAGRAPH 3 – TACTICAL EQUIPMENT MAINTENANCE FACILITY (TEMF)

Rev 4.1 31 January 2013

1. 3.2 FUNCTIONAL AND OPERATIONAL REQUIREMENTS, 3.2.1 FUNCTIONAL SPACES, A. REPAIR AREAS AND VEHICLE CORRIDOR/MAINTENANCE AREAS, 1) Repair Areas, (a) Function. Revised the last two sentences as follows: *Facilities shall have only one crane unless specifically approved by OACSIM. Unless noted otherwise, overhead coiling doors, 24’-0” wide x 14’-0” high, shall be provided at each end of each structural bay. Overhead coiling doors, 24’-0” wide x 16’-0” high, shall be provided at each end of last structural bay.*

2. 3.2 FUNCTIONAL AND OPERATIONAL REQUIREMENTS, 3.2.1 FUNCTIONAL SPACES, B. CORE AREAS, 1) Administration and Shop Control. Revised the last sentence to read as follows: *Provide a secure weatherproof conduit through the south facing exterior wall to facilitate running the VSAT cable to the satellite antenna.*

3. 3.2 FUNCTIONAL AND OPERATIONAL REQUIREMENTS, 3.2.1 FUNCTIONAL SPACES, B. CORE AREAS, 4) Tool Room. Revised the last sentence to read as follows: *Provide an overhead coiling door 10’-0” wide x 10’-0” high and a lockable personnel door for access to the interior of the facility, and an overhead coiling door 10’-0” wide x 10’-0” high for exterior access to the SATS containers.*

4. 3.2 FUNCTIONAL AND OPERATIONAL REQUIREMENTS, 3.2.1 FUNCTIONAL SPACES, B. CORE AREAS, 4) (a) Standard Automotive Tool Set (SATS) has

been reformatted to paragraph 5), all subsequent paragraph numbers 5-13 this section have been revised accordingly.

5. 3.2 FUNCTIONAL AND OPERATIONAL REQUIREMENTS, 3.2.1 FUNCTIONAL SPACES, B. CORE AREAS, 6) Tool Box Storage. Revised section to read as follows: *Tool Box Storage is provided for personnel working inside the maintenance facility in the Repair Areas and the Consolidated Bench area for the secure storage of individually assigned or personal (contractor) tools. In the Repair Areas, as indicated on attached building layouts, provide a shared 4' x 12' x 42" work bench at each end of every other structural bay to securely accommodate 8 toolboxes. The secure storage shall be provided underneath the bench via lockable cabinets, or structural supports sufficient to accommodate chains and padlocks.*

6. 3.2 FUNCTIONAL AND OPERATIONAL REQUIREMENTS, 3.2.1 FUNCTIONAL SPACES, B. CORE AREAS, 7) Combat Spares.

   a. Revised 3rd sentence to read as follows: *Provide an overhead coiling door 10'-0" wide x 10'-0" high and a lockable personnel door for access to the interior of the facility, and an overhead coiling door 10'-0" wide x 10'-0" high for exterior access to the ASL-MS containers and accommodation of the 48" x 48" x 74" ASL-MS repair parts bins and shelving modules.*

   b. Deleted the following sentence from the end of the section: *Provide a weatherproof conduit through the wall to facilitate running the VSAT cable to the satellite antenna.*

7. 3.2 FUNCTIONAL AND OPERATIONAL REQUIREMENTS, 3.2.1 FUNCTIONAL SPACES, B. CORE AREAS, 8) Authorized Stockage List – Mobility System (ASL-MS). Deleted the following sentence from this section: *Provide lockable pair of personnel doors at building exterior to accommodate large bulk portable tools and equipment, and ASLMS repair parts modules.*

8. 3.2 FUNCTIONAL AND OPERATIONAL REQUIREMENTS, 3.2.1 FUNCTIONAL SPACES, C. TEMF FEATURES MATRICES.

   a. 1) Architectural TEMF Features Matrix

      - *Removed Tool Storage in its entirety as a Functional Area.*
      - *Added provisions for overhead doors and bollards at Tool Room and Combat Spares.*
      - *Omitted SIPRNET as a Functional Area and revised COMMUNICATIONS to read COMMUNICATIONS / SIPRNET ROOM.*

   b. 2) Mechanical TEMF Features Matrix
      - *Removed Tool Storage in its entirety as a Functional Area.*
      - *Omitted SIPRNET as a Functional Area and revised COMMUNICATIONS to read COMMUNICATIONS / SIPRNET ROOM.*

   c. 3) Electrical TEMF Features Matrix
      - *Removed Tool Storage in its entirety as a Functional Area.*
      - *Omitted SIPRNET as a Functional Area and revised COMMUNICATIONS to read COMMUNICATIONS / SIPRNET ROOM.*
      - *Deleted provision for Data Connection at Hardstand.*

9. 3.3 SITE FUNCTIONAL REQUIREMENTS, A. GENERAL. Inserted the following section 3. *3) VSAT Platform: Provide a platform capable of supporting the VSAT receiver (approximately 500 pounds) at the south facing exterior wall of the building adjacent to the Administration and Shop Control Room. The VSAT receiver unit will be secured to the platform by the user. The platform may be permanently attached to the building structure or may be self supporting and resting on the hardstand. If a self supporting platform is provided, bollards shall be designed and installed around the intended platform location.*

10. 3.3 SITE FUNCTIONAL REQUIREMENTS, D. SPECIAL SETBACKS & PERIMETER CONTROLS, 3) Clear Zone. Inserted the following sentence at the end of the section: *As an option, the installation may use grass in the clear zone.*

11. 3.4 SITE REQUIREMENTS, A. SITE STORAGE, 3) Organizational Storage Building. Revised the 3rd sentence to read as follows: *Provide a manually operated 10' x 10' coiling door and a personnel door for each 700 SF of company supply area along one side of building.*

12. 3.4 SITE REQUIREMENTS, A. SITE STORAGE, 9) Out of Spec Waste Fuel Tank(s). Inserted the following after the 4th sentence: *These tanks are manually filled only.*

13. 3.5 ARCHITECTURAL REQUIREMENTS, F. REPAIR AREA BAY/MAINENANCE CORRIDOR DOORS. Replaced the first sentence with the following:

    a. Replaced the first sentence with the following: *Provide overhead doors 24 feet wide by 14 feet high in the exterior wall at each end of the structural bays and at each end of the building Maintenance Corridor. The lone exception is that 24 feet wide by 16 feet high overhead doors shall be provided in the exterior wall at each end of last structural bay to accommodate MRAP (Mine-Resistant Ambush-Protected) vehicles, or other large tactical vehicles.*

    b. Revised the last sentence as follows: *Provide manual 10-foot by 10-foot overhead doors for Consolidated Bench Repair Shop, Tool Room, and Combat Spares.*

14. 3.19 EQUIPMENT AND FURNITURE REQUIREMENTS, 3.19.1 FURNISHINGS, A. GENERAL, Table 6. In the Furniture Required section, revised the following:

    a. *Admin & Shop Control – Replaced the Systems furniture overhead storage with the following: "…overhead storage and personal storage tower…" in the 1st sentence.*

    b. *Admin & Shop Control – Replaced 4 drawer filing cabinets with '5 drawer lateral' filing cabinets.*

    c. *ARMS VAULT – Replaced '1 desk to accommodate a computer' with '1 double pedestal desk'.*

    d. *ARMS VAULT – Replaced 'one 4-drawer filing cabinet' with 'one 5-drawer lateral file cabinet'.*

    e. *COMSEC VAULT – Replaced '1desk to accommodate a computer' with '1 double pedestal desk'.*

f. *COMSEC VAULT – Replaced 'two 4-drawer filing cabinets' with 'two 5-drawer lateral file cabinets'.*

g. *COMBAT SPARES – Replaced '1desk to accommodate a computer' with '1 double pedestal desk'.*

h. *COMBAT SPARES – Replaced 'one 4-drawer filing cabinet' with 'one 5-drawer lateral file cabinet'.*

i. *TOOL ROOM – Replaced '1desk to accommodate a computer' with '1 double pedestal desk'.*

j. *TOOL ROOM – Replaced 'one 4-drawer filing cabinet' with 'one 5-drawer lateral file cabinet'.*

15. Standard Design Drawing Revisions (Plates A-101A, A-101B, A-101C, A-101D):

a. *Combat Spares has been increased in size and relocated closer to the Repair Area.*

b. *Tool Box Storage has been omitted. Tool Room has been significantly increased in size and relocated to area immediately adjacent to the Repair Area.*

c. *Consolidated Bench has been decreased in size to accommodate size increases elsewhere.*

d. *Repair Bays have been increased in width to provide additional circulation between each repair bay and also to accommodate tool box locker storage / work table(s) between pairs of bays.*

e. *Two enclosed offices, approximately 110sf each, have been provided at Administration Shop Control.*

Rev 4.0 *31 August 2012*

1. Revised in its entirety to match new paragraph 3 formatting.

Rev 3.8 *23 January 2012*

1. Added "manual" before "10' X 10' coiling door" in 3rd sentence of paragraph 3.1.3(3)(c).

2. Added "grass or" before "gravel" in 4th sentence of paragraph 3.1.4(2).

3. Added "as preferred by the installation" after "synthetic fabric" in 4th sentence of paragraph 3.1.4(2).

4. Added "gravel" before "clear zone" in 5th sentence of paragraph 3.1.4(2).

5. Added "or painted steel pipe bollards as preferred by the installation" after "schedule 80 galvanized" in 1st sentence of paragraph 3.1.4 (16).

6. Added "one or more of the following methods;" after "in combination with" in 1st sentence of paragraph 3.1.5(3).

7. Modified Table 7 “Room Size and Furnishing Chart” by replacing “of 1 LF of 4 – drawer horizontal file cabinet for every 4 SF of room (250 SF room = min. 62.5 LF 4-drawer horizontal base files” with “of 1 linear foot of file space for every 4 SF of room (250 SF room = min 62.5 lf of file space). One 36" wide, 4 drawer file cabinet = 12 LF, room requires 5.2 x 4-drawer file or 6 cabinets” in paragraph 3.1.11.

8. Revised areas in Paragraph 3.2

9. Added “, POL and HAZMAT buildings” after “Fluid Distribution Room” in Note 9 of Architectural TEMF Features Matrix in paragraph 3.2(e).

10. Revised column “POL DISPENSING WITH HOSE REEL SYSTEM” to read “POL/ANTIFREEZE DISPENSING W/HOSE SYSTEM” in the “Mechanical TEMF Features Matrix” in Paragraph 3.2(f).

11. Added notation for the “Repair Areas” under the “POL/ANTIFREEZE DISPENSING W/HOSE SYSTEM” column in the “Mechanical TEMF Features Matrix” in Paragraph 3.2(f).

12. Added column for “POL /ANTIFREEZE WASTE DISPOSAL SYSTEM”. Added notations for the “Repair Areas” and “Maintenance Areas” for the column noted in the “Mechanical TEMF Features Matrix” in Paragraph 3.2(f).

13. Revised and updated all layouts except the UAV and Distribution Company Storage Buildings layout to provide for anticipated area increases necessary to incorporate new energy saving features (increased thermal barriers and more efficient mechanical/electrical equipment).

Rev 3.7 *31 March 2011*

1. Added “pairs of” after “It accommodates” in 6th sentence of paragraph 3.1.1.

2. Replaced “width of the bays is permissible” with “length of the maintenance area is provided” in 2nd sentence.

3. Revised Paragraph 3.1.3(5).

4. Added “or solid state (LED)” after “…intensity discharge (HID)” in 3rd sentence of paragraph 3.1.9 (2).

5. Replaced “areas adjacent to the primary facility and ” with “within 10 feet…illumination levels shall be” in 7th sentence of paragraph 3.1.9(2).

6. Added “See the attached…and required adjacencies” below header of paragraph 3.2.

7. Modified paragraph 3.2(a) by replacing 2nd and 3rd sentences with “18,400 SF” [for projects in FY-14 and beyond]. Relocated paragraphs 3.2(b), (c), and (d) to directly below 3.2(a). Modified paragraph 3.2(b) by replacing 2nd and 3rd sentences with “35,270 SF”. Modified paragraph 3.2(c) by replacing 2nd and 3rd sentences with “57,031 SF”. Modified paragraph 3.2(d) by replacing 2nd and 3rd sentences with “74,688 SF”.

8. Deleted Small TEMF, Medium TEMF, Large TEMF, and EXTRA LARGE TEMF Tables from paragraph 3.2 and relocated to PART 1.

9. Added “OR SOLID STATE (LED)” after “FLUORESCENT” in Electrical TEMF Features Matrix Column. Added “OR SOLID STATE (LED)” after “(HID) METAL HALIDE” in Electrical TEMF Features Matrix Column.

10. Added new sentence to end of note 1. of Electrical TEMF Features Matrix.

11. Added “where required by ASHRAE 90.1” at end of last sentence in paragraph 3.1.7(3).

12. Changed “18000 SF” to “18,400 SF” on Small TEMF Floor Plan.

13. Paragraph 3.1.1 (1) (k): Added paragraph for POL Dispensing Points.

Rev 3.6 *25 October 2010*

1. Paragraph 3.1.1 (1) (k): Added paragraph for POL Dispensing Points.

2. Paragraph 3.1.1 (2) (c) 2.; Revised 1st and 2nd sentences after “POL Hose Reels.” in their entirety. Added “at the two dispensing…in the maintenance pit.” after “…and antifreeze” at end of paragraph.

3. Paragraph 3.1.1 (2) (c) 3: Added paragraph for Fluid Recovery System.

4. Paragraph 3.1.2 (2); Added 2 new sentences to end of paragraph.

5. Paragraph 3.1.2 (8) (d); Added “and a pull-down screen are” after “Projection equipment hookups” in 1st sentence. Added “or screen” after “…projection equipment hookup” in last sentence.

6. Added two new sentences to end of paragraph 3.1.2 (11).

7. Added one new sentence to end of paragraph 3.1.3 (3) (b) and added new sub-paragraphs a, b, and c.

8. Added one new sentence to end of paragraph 3.1.3 (3) (a) and added new sub-paragraphs a, b, and c.

9. Removed “Maintenance and” from paragraph 3.1.3 (3) (f) 1st sentence. Removed “Field Level Maintenance and” from 3rd sentence.

10. Removed “Maintenance and” from 1st sentence after “…,UAV” in paragraph 3.1.6.3.

11. Removed “Maintenance and” from 8th sentence after “UAV” in paragraph 3.1.7 (1). Also deleted “shall be designed…ASHRAE 62.1. For the” from end of 8th and beginning of 9th sentences such that these two sentences are combined into one sentence.

12. Added “and” after “Repair and maintenance bays,” in 1st sentence of paragraph 3.1.7 (2) (a). Deleted “, the UAV Maintenance…Company Storage Building” from 1st sentence.

13. Changed “700” to “900” in 9th sentence of paragraph 3.1.7 (4). Deleted 10th sentence and added two new sentences in its place.

14. Added “Static Free” after “Min. 16 SF of” in Furniture Required column and CONSOLD. BENCH REPAIR row.

15. Reference 12 changed in its entirety in paragraph 3.3.

16. In paragraph 3.3 changed reference 13 from “UFC 3-550-3” to “UFC 3-550-1” and updated description.

17. Added “4” to HEAT column at UAV STORAGE BUILDING, and DISTRIBUTION COMPANY STORAGE FAC” rows at Mechanical TEMF Features Matrix. Also removed “…MAINT AND…” from row description for UAV STORAGE.

18. Deleted “…MAINT. AND…” from UAV STORAGE BUILDING row in Architectural TEMF Features Matrix.

19. Deleted “…MAINT. AND…” from UAV STORAGE BUILDING row in Electrical TEMF Features Matrix.

Rev 3.5 *30 June 2010*

1. Added paragraph (d) to paragraph 3.1.2 (8).

2. Added period to end of 4th sentence in paragraph 3.1.7(1).

3. Added new 2nd sentence to paragraph 3.1.7(2)(a).

4. Changed “01 11 00” in 1st sentence of paragraph 3.1.7(2)(b) to “01 10 00”.

5. Changed “120” to “125” in last sentence of paragraph 3.1.8.

6. Modified 1st sentence of paragraph 3.1.9(4)(k) by changing “grid” to “counterpoise”.

7. Modified second sentence of paragraph 3.1.9(4)(l) by changing “DOIM” to “NEC”.

8. Amended 1st sentence of paragraph 3.1.9(4)(e)ii by adding “or solid state” after T8 fluorescent…

9. Modified 1st sentence of paragraph 3.1.9(4)(e)iii by adding “or solid state” after …T8 fluorescent linear… Added “or solid state” after …metal halide adjustable… to 2nd sentence.

10. Changed heading for paragraph 3.1.10 to read “ENERGY CONSERVATION”.

11. Changed paragraph 3.1.10(1) to “3.1.10.1 Energy Performance.” Added “a non-plug” before “energy consumption…” in 1st sentence. Changed “30%” to “40%” in 1st sentence. Removed “-2004” from Standard 90.1 in 1st sentence. Added two new sentences to end of paragraph.

12. Deleted paragraphs 3.1.10 (2), (3), and (4) and added new paragraphs 3.1.10.2, 3.1.10.3, and 3.1.10.4.

13. Changed “Prescriptive Technology Solution” to “Energy Conservation Features” in all Climate Zone tables.

14. Changed column labeled “Improvement” to read “Minimum Requirements” in all Climate Zone tables.

15. Deleted note 1 immediately following Climate Zone Table 8A.

16. Changed “Recommendation” to “Minimum Requirements” in lighting densities table.

17. In Showers, Storage 1, Consolidated Bench, Storage 2, and Office rows for lighting densities table, changed Baseline column to read “Use ASHRAE90.1”.

18. Added “and in the Fluid Distribution room” after “…Consolidated Bench Repair” in 3rd sentence of paragraph 3.1.1(3)(b).

19. Deleted the “Baseline” column in the Climate Zone tables.

20. Deleted the “HVAC”, Economizer”, and “Ventilation” rows in the Climate Zone tables.

21. Modified Architectural TEMF Features Matrix to delete requirement for both Weapons Storage Vault and COMSEC Vault for “Ceiling Height 9 Ft.” and placed “6” under “Ceiling Height 12 Ft.”

22. Modified Architectural TEMF Features Matrix Note 4 by adding “35-ton top running” after “…10-ton or a”.

23. Modified Architectural TEMF Features Matrix Note 6 to state: “Provide top of Concrete Cap at 12’-0”. Provide an additional dropped ceiling to protect weapons and COMSEC equipment under repair. Top of caps shall be secure from unauthorized access.”

24. Changed column “208-230 Volt 3 PH” in Electrical Features Matrix by changing “6” to “.” in rows “Repair Areas” and “Maintenance Areas”. Also added “,6” to Hardstand Row.

Rev 3.4 *31 March 2010*

1. Changed paragraph 3.1.2 1st sentence by replacing “preferred” with “recommended”.

2. Modified 3rd sentence of paragraph 3.1.2 (11) by replacing “Guide” with “Criteria”.

3. Changed 5th sentence of paragraph 3.1.3 (3) (g) by replacing “Preferred” with “Recommended”.

4. Amended 5th sentences of paragraphs 3.1.3 (3) (h) and (i) by replacing “Preferred” with “Recommended”.

5. Modified last sentence of paragraph 3.1.5 (1) by replacing “preferred” with “recommended”.Added the 2nd sentence of paragraph 3.1.7.

6. Modified the now 3rd sentence of paragraph 3.1.7 as follows:

   - Replaced the word “Supply” with “The general exhaust”
   - Deleted the words “and CO and NOX sensors”.
   - Replaced the word “supply” with “exhaust”
   - Deleted the words “with a variable emssion rate” and added “based on the operation of the vehicle exhaust system”.

- Added the words “The repair and maintenance areas and vehicle corridor shall be”. Deleted the words “and use a pressure sensor to”.
- Replaced the word “maintain” with “maintained at”
- Replaced the word “positive” with “at negative”
- Replaced the words “based on operation of a demand based local exhaust system” with “with respect to the air conditioned core area”

7. Added new sentence to end of paragraph 3.1.9 (4) (a) iii.

8. After 6th sentence of paragraph 3.1.9 (4) (k) added new wording “Equipment parking grounding…..bare copper cable.”

9. Replaced “Guide” with “Criteria” in last sentence of paragraph 3.1.9 (4) (k).

10. Added dot to Arch TEMF Features Matrix in Overhead Coiling Doors – 10’ x10’ column at Consolidated Bench Repair row. Removed dot from Lockers column at Consolidated Bench Repair row.

11. Added “9” to Arch TEMF Features Matrix in Overhead Coiling Doors – 10’ x 10’ column at Fluid Distribution Room row.

12. Added Note “9” in “Notes” to state: “Roll-up Doors or Double Doors may be provided for exterior access to the Fluid Distribution Room based on User preference.”

13. Removed “9” from 208-230V 3 PH column at Maintenance Areas row in Electrical/Telecommunications TEMF Features Matrix.

14. Note 2 to Electrical/Telecommunications TEMF Matrix and added new wording to the end of this note.

15. Changed “forr” to “for” in 1st sentence of paragraph 3.1.9 (4) (l).

16. Modified Table 7, Consold. Bench Repair row, Furniture Required column, to read “Min. 16 SF of work bench space for each assigned repair…”

Rev 3.3 *31 December 2009*

1. Modified Prescriptive Technology Solution Tables “Climate Zone 1A to Climate Zone 8A” by changing Interior Lighting row to read “Automatic Lighting Shutoff” in Component column, “Scheduled shutoff for all spaces” in Baseline1 column, and “Occupancy sensors for all unoccupied spaces and where feasible for all occupied spaces” at Improvement column.

2. Modified paragraph 3.1.4 (18) by adding new sentence after “….the edge of the building.”

3. Modified paragraph 3.1.1 to add “Vehicle Corridor/” to the paragraph heading.

4. Modified paragraph 3.1.1(2) to add “Vehicle Corridor/” to the paragraph heading.

5. Modified paragraph 3.1.1(2)(a) by adding new sentence after “Function”

6. Modified paragraph 3.1.1(2) by adding new subparagraph (b).

7. Modified paragraph 3.1.1(2) by adding new subparagraph (c).

8. Modified paragraph 3.1.1(2) by changing subparagraph (b), Maintenance Pit to subparagraph (1) under new subparagraph (c).

9. Modified paragraph 3.1.1(2) by changing subparagraph (c), POL Hose Reels to subparagraph (2) under new subparagraph (c).

10. Modified paragraph 3.1.3(5) by adding option for SOW to include POV parking.

11. Modified paragraph 3.1.7(2)(e) by deleting "1775 BTU per hour" and adding new requirement for heat dissipation for SIPRNet and Telecommunication rooms.

12. Modified paragraph 3.1.11 by deleting "(See para.5)" in Table 6.

13. Modified paragraph 3.2 (e), (f), and (g) by adding "Unassigned" to the functional areas of the Arch, Mech, and Elec TEMF Features Matrices.

Rev 3.2 *30 September 2009*

1. Modified paragraph 3.1.9(4)(k) by modifying 5th sentence to read "…coordinated with the "parking layout…of ground ring.""

2. In paragraph 3.1.1(2)(a); added new 3rd sentence.

3. Modified Architectural TEMF Features Matrix by adding "8" to Maintenance Areas row at Exposed structure overhead column.

4. Added note 8 below Architectural TEMF Features Matrix.

5. Paragraph 3.1.2 (11); change "guide" to "criteria" in 3rd sentence.

6. Paragraph 3.1.9(4)(f); change "guide" to "criteria" in next to last sentence.

7. Paragraph 3.1.9(4)(g); change "guide" to "criteria" in last sentence.

8. Paragraph 3.1.5(1); deleted second sentence.

9. Drawings: Note for provisional changes to standard floor plans revised on each drawing sheet.

Rev 3.1 *31 May 2009*

1. Changed note 12.b)3) of Electrical TEMF Features Matrix by changing "RJ 11 45" to "RJ 45" in first sentence.

2. Changed note 10 of Electrical TEMF Features Matrix by modifying note to read "208V single phase power connection for tire changing machine where shown on the TEMF Standard Drawings."

3. Modified paragraph 3.1.9(4)(f) by adding "including NIPRNET and SIPRNET Minimum Room Sizes" to paragraph heading. Added new sentence to end of paragraph.

4. Added new Table 5A.

5. Amended Electrical TEMF Features Matrix by deleting note 10 for TOOL ROOM and COMBAT SPARES in column 208V SINGLE PHASE. Added note 10 to

REPAIR AREAS under column 208V SINGLE PHASE. Added dot for SIPRNET ROOM under column INTRUSION DETECTION SYSTEM.

6. Added new paragraph 3.1.1 (1) (i) and changed existing paragraph (i) to (j).

7. Modified paragraph 3.1.7 by changing heading to read “HVAC Controls” and deleting “UMCS”. Also deleted existing paragraph text and added new text.

8. Added dot in compressed air column at fluid distribution row in Mechanical Features Matrix.

Rev 3.0 *28 February 2009*

1. Revised paragraph 3.1 (7), Adapt-Build Model

2. Modified paragraph 3.1.1 by changing “central drive lane” to “vehicle corridor” in 4th and 5th sentences. Deleted “two” from 6th sentence and added “…down the length of…” to end of sentence.

3. Revised paragraph 3.1.1 (1) (a) by changing 14’8” to 14’0” in last sentence.

4. Changed paragraph 3.1.1 (1) (d) by adding “/Machine Shop Area” to paragraph heading. Changed sentence “Provide capability….” To “Provide special purpose….welding equipment…”, and added after “…repair areas” “, typically in repair….items (e), and (j).”

5. Modified paragraph 3.1.1 (1) (h) by deleting “and SIPRNet (for future use)”

6. Revised paragraph 3.1.1 (2) (a) by adding “within core area” after “Maintenance areas” in 1st sentence. Added “and (j)” after “(f)” in 2nd sentence. Added “along central vehicle corridor” after “maintenance areas” in 3rd sentence. Added “within bays” after “maintenance areas” in last sentence.

7. Changed paragraph 3.1.1 (2) (b) by adding “vehicle corridor portion” after “..in the central” in 1st sentence.

8. Modified paragraph 3.1.1 (3) (b) by adding “, hand held drench hose” after “…emergency eye wash” in 2nd sentence. Added “.1” to “ANSI Z358” in 2nd and 4rth sentences. Revised 3rd sentence to read “…or more emergency “eyewash, hand held drench hose and shower” stations in Consolidated…”. Added new sentence to end of paragraph “Per OSHA 1910.151(c)…”.

9. Modified paragraph 3.1.2 by changing “…may be…” to “…are…” and “…or…” to “…and…” in 1st sentence. Added “(refer to the attached….)” at end of 1st sentence.

10. Amended paragraph 3.1.2 (3) (b) by changing 1st sentence to read “See Table 7 for furnishings.”

11. Changed paragraph 3.1.2 (4) (a) by adding sentence to end of paragraph “The technical manual…”.

12. Revised paragraph 3.1.2 (6) by adding “so to accommodate 48”…shelving modules” after “..personnel doors” in 3rd sentence.

13. Modified paragraph 3.1.2 (6) (a) by adding “repair” before “parts” in 1st sentence. Added two new sentences to end of paragraph.

14. Revised paragraph 3.1.2 (9) (a) by adding “”Dutch door” style” before “day gate” in 4rth sentence. Modified 5th sentence to read “…partitioned space “or provide space for …. installation requirements” to accommodate…”

15. Changed paragraph 3.1.2 (9) (b) by replacing last sentence with “Refer to “Physical Security Standards…Material (FOUO).””

16. Replaced paragraph 3.1.2 (10) with “Nonsensitive Secure Storage…Unclassified Army Property.”

17. Revised paragraph 3.1.2 (11) by adding “s” to “Telecommunication” and deleting “TER” in paragraph heading. Changed “Space” to “A SIPRNET Room” in last sentence.

18. Modified paragraph 3.1.2 (12) (f) by changing last two sentences to read “Walls and floor/ceiling…accordance with ASTM E 492.”

19. Revised paragraph 3.1.3 (3) (c) by changing 3rd sentence to read “Provide “a 10’ x 10’ … each 700 SF of” company supply area…”. Added new sentence after 3rd sentence “Provide internal…700 SF space.”

20. Modified paragraph 3.1.3 (3) (f) by adding new sentence at end of paragraph.

21. Changed paragraph 3.1.4 (2) by deleting “…sliding…” from last sentence.

22. Updated paragraph 3.1.4 (17) by changing “…Out of Spec Waste Oil…” to “…Out of Spec Waste Fuel…”

23. Revised paragraph 3.1.5 (2) by changing last sentence to read “…the overhead doors at repair areas and at centerline of central vehicle corridor, extending the length of maintenance areas.”

24. Added paragraph 3.1.5 (5), Sound Insulation, and renumbered subsequent subparagraphs

25. Changed paragraph 3.1.5 (6) by changing “14’-8”” to “14’-0”” in 1st sentence. Deleted “10-foot by 10-foot overhead” from 2nd sentence. Added new sentence at end of paragraph.

26. Replace “…corridor…” with “…vehicle corridor portion of…” in 1st sentence of paragraph 3.1.5 (7).

27. Added new paragraph 3.1.5 (8) (e).

28. Deleted paragraph 3.1.6.1 and renumbered paragraphs 3.1.6.3 thru 3.1.6.11.

29. Modified paragraph 3.1.6.3 by changing “…preliminary…” to “…interim…” in 2nd sentence.

30. Modified paragraph 3.1.6.4 by amending 1st sentence to read “…Vehicle Maintenance Shops “, UAV Maintenance and … Company Storage Buildings.””

31. Revised paragraph 3.1.6.4.2 by deleting 2nd sentence.

32. Revised paragraph 3.1.7 by deleting 3rd sentence.

33. Modified paragraph 3.1.7 (2) (e) by changing “Communications…” to “Telecommunications Rooms…” in paragraph heading.

34. Changed paragraph 3.1.7 (4) by adding new 5th sentence “50% duty cycle…the using service.”

35. Amended paragraph 3.1.8 (2) by changing “…(c).(2)..” to “…(3) (b)…” in 1st sentence.

36. Changed “…Communication…” to “...Telecommunications…” in paragraph 3.1.9 heading and 1st sentence.

37. Changed paragraph 3.1.9 (1) (a) to read “… Connections. Provide “power connections to … in Features Matrix.””

38. Amended paragraph 3.1.9 (3) (a) to read “…Data Connections. “None required.””

39. Changed “…Communications” to “…Telecommunications” in paragraph 3.1.9 (4) header.

40. Changed “…Classroom…” to “…Training Room” in 1st and 2nd sentences of paragraph 3.1.9 (4) (e) i.

41. Changed “…Classroom…” to “…Training Room…” in 4rth and 5th sentences of paragraph 3.1.9 (4) (f).

42. Revised Table 5 by deleting row for Warehouse, Storage, and Miscellaneous Rooms.

43. Changed “…Classroom” to “…Training Room” in paragraph 3.1.9 (4) (h) i.

44. Changed “…communications…” to “…telecommunications…” in 2nd sentence of paragraph 3.1.9 (4) (i) i.

45. Paragraph 3.1.9 (4) (l) has been modified in its entirety.

46. Deleted paragraph 3.1.9 (4) (o).

47. Revised Architectural Features Matrix by changing “Classroom” to “TRAINING ROOM” and “OVERHEAD COILING DOORS – 24FT X 14 FT -8IN”to “OVERHEAD COILING DOORS – 24FT. X 14 FT – 0IN”.

48. Revised Arch Matrix note 4 to read “…and maintenance areas “as noted in para. 2.1.””

49. Added two new sentences at end of note 6. of Arch Matrix notes.

50. Revised Mechanical TEMF Features Matrix by changing “CLASSROOM” to “TRAINING ROOM”. Added new column titled “OUT OF SPEC WASTE FUEL STORAGE”.

51. Revised Electrical TEMF Features Matrix by changing row titled “CLASSROOM” to “TRAINING ROOM”. Added “5” to Communication Vehicle Dock row. Changed “5” to “2” in Hardstand row and 208-230V3PH column. Added “9” to Organizational Storage and Distribution Company Storage Bldg rows.

52. Deleted “Communications Vans (100A)” from Electrical Features Matrix note 2.

53. Revised Electrical Features Matrix note 5 to read “Communications Vans (100A).”

54. Revised Electrical Features Matrix note 9 in its entirety.

55. Modified Electrical Features Matrix note 12 b) 3) by placing “45” in front of “(phone)” and replacing “DOIM’s” with “I3A”.

56. Added new reference number 14 for paragraph 3.3.

Rev 2.7 *30 November 2008*

1. Added Paragraph 3.1 (7) Adapt-Build Guidance to be included for Task Orders only.

2. Modified paragraph 3.1 (2) by deleting “Gross building area….. roof and floor above.” and replacing with “Gross Building Area. Gross areas of facilities shall be computed according to subparagraphs below.” Added subparagraphs (a), (b), and (c).

3. Revised paragraph 3.1.1 (1) (a) by changing “…14’-0”…” to “…14’-8”…”.

4. Revised paragraph 3.1.1 (1) (g) by adding sentence “When a dedicated …… the welding area.”

5. Modified paragraph 3.1.1 (2) (a) by modifying sentence “…except items (d), (e), (f), and (h) apply ….” To “…except items (d), (e), and (f) apply…”.

6. Modified paragraph 3.1.1 (2) (b) by adding sentence “Due to inside clearance…pit and curbing.”. Changed sentence “Pit cover panels to be light enough to be handled by personnel” to “Pit cover panels to be light enough to be handled by a maximum of two personnel”.

7. Modified paragraph 3.1.1 (3) (b) by revising “…hand wash and shower station…” to “…hand held drench hose and shower station…”.

8. Modified paragraph 3.1.2 (4) “Provide lockable personnel door and pass-through opening…” to “Provide lockable pair of personnel doors and pass-through opening…”.

9. Modified paragraph 3.1.2 (6) “Provide lockable personnel door and pass-through opening” to “Provide lockable pair of personnel doors and pass-through opening”.

10. Revised paragraph 3.1.2 (8) (b) “Provide stainless steel two-compartment” to “Provide stainless steel two-compartment sink”.

11. Revised paragraph 3.1.2 (12) (h) by adding sentence “Compliance with UFC 3-600-01, NFPA 30, and 29 CFR 1910.106 is mandatory.”

12. Modified paragraph 3.1.3 (3) (a) by adding sentence “Compliance with UFC 3-600-01, NFPA 30, and 29 CFR 1910.106 is mandatory.” Added following to end of paragraph “Pre-fabricated, fire-rated, … required per satellite accumulation area.”

13. Revised paragraph 3.1.3 (3) (b) by adding sentence “Compliance with UFC 3-600-01, NFPA 30, and 29 CFR 1910.106 is mandatory.” Added following to end of paragraph “Pre-fabricated, fire-rated, … required per satellite accumulation area.”

14. Revised paragraph 3.1.3 (3) (f) by deleting sentence “Provide a 10-foot wide by 10-foot high overhead coiling door.”

15. Modified paragraph 3.1.3 (3) (g) by changing “Waste Oil Storage Tank(s)” to “Used Oil Storage Tank(s).” Changed sentence “…above-ground waste engine oil…” to “…above-ground used engine oil…”. Changed sentence “The waste storage tank and waste engine coolant storage tank should be co-located…” to “Used oil, waste fuel, and used engine coolant storage tanks should be co-located…”

16. Revised paragraph 3.1.3 (3) (h) by changing “Waste Engine Coolant (antifreeze) Storage Tank(s)” to “Used Engine Coolant (antifreeze) Storage Tank(s)”. Changed sentence “…above-ground waste engine coolant…” to “…above-ground used engine coolant…”. Changed sentence “waste storage tank and waste engine coolant storage tank…” to “Used oil, waste fuel, and used engine coolant storage tanks should be co-located, if possible.”

17. Modified paragraph 3.1.3 (3) by adding a new subparagraph (i).

18. Revised paragraph 3.1.4 (6) by changing sentence “Waste Oil, Antifreeze, Solvents, Cleaning Compounds…” to “Used and Waste Oil, Antifreeze, Solvents, Cleaning Compounds…”

19. Revised paragraph 3.1.4 (17) by changing sentence “Bollards at Waste Oil and Waste Engine Coolant…” to “Bollards at Out of Spec Waste Oil, Used Oil and Used Engine Coolant…”

20. Modified paragraph 3.1.5 (5) by changing “…14’-0”…” to “…14’-8”…”

21. Changed paragraph 3.1.6.4.1 by replacing “The Contractor shall make … building fire alarm control panel (FACP).” with “The sprinkler service main…fire alarm control panel (FACP).”

22. Revised paragraph 3.1.6.8 by replacing existing text with “Fire flow test data is provided in Appendix D.”

23. Revised paragraph 3.1.6.10 by replacing existing text with “Refer to paragraph 3.1.9, Electrical and Communication Systems, for requirements.”

24. Modified paragraph 3.1.7 (1) by modifying sentence “Ventilation Supply system for the repair…” to read “Ventilation System. Ventilation Supply system for the repair…”. Changed sentence “Air supplied into admin area shall be cascaded into adjacent areas…” to “Air supplied into the air conditioned core area shall be cascaded into adjacent areas…”. Changed sentence “…entering the admin area.” to “…entering this area.”

25. Revised paragraph 3.1.7 (2) by deleting the word “Heating” from para. heading. Moved text “Repair and Maintenance…freeze protection.” into new paragraph (a). Changed text “…site storage buildings are to be heated to 40 degrees F for freeze protection.” to “…site storage buildings (see paragraph 3.2.f) are to be heated to 40 degrees F for freeze protection.”. Moved “Occupied spaces…decentralized

sources." into new paragraph (b). Moved "Return air plenum…Maintenance Facilities." into new paragraph (c). Added new paragraphs (d) and (e).

26. Revised paragraph 3.1.7 (3) sentence "Provide exhaust systems at maintenance area pit,.." to "Provide general exhaust in repair and maintenance areas and exhaust systems at maintenance area pit,…". Added sentences "Welding function is portable … fan shall be non-sparking." Added sentences "Welding exhaust shall … parts of the floor area." Deleted sentence "Consider use of evaporative air pre-cooling in hot climates."

27. Revised paragraph 3.1.8 (2) sentence "…for eye wash, hand wash and emergency shower requirements within repair and maintenance areas." to "…for eye wash, hand held drench hose and emergency shower requirements within the repair and maintenance areas and core area."

28. Revised paragraph 3.1.8 (4) sentences "Provide sump pump in maintenance pit. Determine if sump pump shall be explosion proof type and provide explosion type,…" to read ". Provide sump pump in maintenance pit and elevator pit. Determine if maintenance pit sump pump shall be explosion proof type and provide explosion type…". Added sentence "Maintenance pit and elevator pit sumps shall discharge to an oil water separator."

29. Revised paragraph 3.1.9 (4) (a) i. sentence "…provide a space for 3-phase, 200 ampere breaker in the main switch board." to "…provide a space for 3-phase, 200 ampere breaker with additional 3-phase, 200 ampere power capacity for this breaker in the main switch board."

30. Modified paragraph 3.1.9 (4) (k) revised sentence "Ground straps shall be provided…" to "Ground busbar shall be provided…". Added sentence after …maintenance area. "Each repair area and maintenance area is 16' x 32' in size."

31. Modified paragraph 3.1.9 (4) (n) ii by deleting sentence "Use red color EMT."

32. Modified paragraph 3.1.9 (4) (o) by deleting sentences "In the I3A Technical Design Guide … considered to be MANDATORY Criteria."

33. Modified paragraph 3.1.10 (2) by inserting "DOE" before "Climate Zone…".

34. Modified Climate Zone Tables 1A, 2A, 2B, 3A, 3B, 3C, 4A, 4B, 4C, 5A, 5B, 6A, 6B, 7A, and 8A by changing "Recommendation" to "Improvement".

35. Changed Fan Efficiencies Table Fan Coil Units Baseline Efficiency from "0.20" to "0.30".

36. Deleted reference number 14 in paragraph 3.3.

37. Modified Electrical/Telecommunications TEMF Features Matrix by changing "GROUND STRAP ON WALL" to "GROUND BUSBAR ON WALL".

38. Revised drawing A-101 for Small TEMF as follows: Decreased SF of main entrance awning, decreased SF of main entrance passage. Increased SF for Break/Training/Conf. Room and men's and women's restrooms, and reconfigured men's and women's restrooms. Relocated DF and HDF from main entrance passage to adjacent to Comm Room. Increased SF of Future Comm. Reduced SF of Janitor/Recycling Room. Decreased SF of Fluid Distribution Room.

Increased SF of Electrical Room. Reduced SF of Tool Box Storage Room and relocated it. Relocated Tool Room, Combat Spares, Comsec Vault, and Secure Storage Rooms. Increased SF of Consolidated Bench Repair Room. Increased SF of Loading Dock Awning. Deleted dimension between bollards at Repair Bay Doors. Changed layout of SATS and ASMLS to 4-ft intervals.

39. Modified para. 3.1.8 (3) by changing sentence "…the vehicle corridor, and in the Consolidated Bench…" to read "…the vehicle corridor, at two places in the pit, and in the Consolidated Bench…".

40. Added the following verbage to sentence "…work area and a lens that diffuses the light ", clerestory windows, and translucent wall panels above overhead doors."" to paragraph 3.1.5 (3).

41. Added Hr numbers to Table in paragraph 3.1.10 (4).

42. Modified paragraph 3.1.9 (1) by adding to sentence "…power requirement to each vehicle." to read "…power requirement to each vehicle with the capability to operate all vehicles simultaneously."

43. Modified paragraph 3.1.8 by revising sentence "When a dedicated, walled welding area…" to read "When a dedicated, partitioned welding area…"

44. Modified Prescriptive Technology Solution Tables for Climate Zones 1A, 2A, 2B, 3A, 3B, and 3C by inserting "YES" in place of "NR" in far right column.

45. Added new paragraph 3.1.1(1) (j).

46. Revised drawings for small, medium, large, and extra large TEMFs, also revised drawings for Distribution Storage Building and UAV Building.

47. Under Notes for Electrical TEMF Matrix, re-formatted notes 11 and 12.

48. Under Notes for Electrical TEMF Matrix, edited note 6 to read 208V instead of 280V. Also added a period to the end of the note.

49. Updated date of document, footers throughout Part II to read 14 Nov 2008 instead of 15 Oct 2008.

Rev 2.6 *15 June 2008*

1. Added Paragraph 3.1 (7) Adapt-Build Guidance to be included for Task Orders only.

2. Paragraph 3.1.1 (1) (b), modified sentence to "Equipment. Repair Bays shall be served by a 10-ton or a 35-ton capacity traveling bridge crane with full structural bay coverage as indicated in the Architectural TEMF Features Matrix and as specified in Para. 2.1.

3. Paragraph 3.1.2 (4) (a), modified sentence to "The SATS is a unit-owned containerized…".

4. Paragraph 3.1.2 (6) (a), modified sentence to "the AS-LMS is a unit-owned 8'x20'x8'…".

5. Paragraph 3.1.3 (3) (a); added sentence after "…will be provided." "The specific requirement for this project is specified in Para. 2.1."

6. Paragraph 3.1.3 (3) (b); added sentence after "… will be provided." "The specific requirement for this project is specified in Para. 2.1."

7. Paragraph 3.1.4 (1); Deleted "Also, included in the appendix is an Army's Facility Planning System (FPS) Parking Layout Detail." Also deleted "FPS" in following sentence.

8. Paragraph 3.1.5 (5) (a); deleted "…will be…".

9. Paragraph 3.1.6.4; Deleted first sentence and substituted the following "Provide complete sprinkler protection for Vehicle Maintenance Shops and Organizational Storage Buildings. Wet pipe sprinkler systems shall be provided in areas that are heated and dry pipe sprinkler systems shall be provided in areas subject to freezing."

10. Paragraph 3.1.6.11.1; Delete the title "Fire Extinguishers" and the text. Replace with the following: "Fire Extinguisher Cabinets and Brackets". Body of paragraph revised to state "Fire Extinguisher cabinets and brackets shall be provided when fire extinguishers are required by UFC 3-600-01 and NFPA 101. Placement of cabinets and brackets shall be in accordance with NFPA 10. Semi-recessed cabinets shall be provided in finished areas and brackets shall be provided in non-finished areas (such as utility rooms, storage rooms, shops, and vehicle bays). Fire extinguishers shall not be provided in this contract."

11. Paragraph 3.1.7 (1); deleted sentence "Supply air shall be preheated in a transpired solar collector."

12. Paragraph 3.1.7 (2); deleted sentence "For the Organizational Storage, Distribution Company Storage, POL Building, mechanical and electrical rooms, the ventilation rate shall be such that the space is maintained at a maximum of 10 degrees (F) above ambient conditions."

13. Paragraph 3.1.7 (2); revised sentence to "Repair and maintenance bays, the vehicle corridor, and the UAV Maintenance and Storage Building and Distribution Company Storage Building"

14. Paragraph 3.1.9 (3) (a); Changed four strands to twelve strands in the sentence that reads, "Provide a pathway for four strands of multimode fiber optic cables per terminal point." Added following sentence to end of paragraph, "The minimum communications conduit size is 1-inch."

15. Paragraph 3.1.9 (4) (c), deleted "(for example, 70 V)" and "(for example, 400 Hz)".

16. Paragraph 3.1.10(3); added sentence "EPACT Methodology. See below for two paths (Prescriptive and Compliance) for demonstrating compliance with EPACT."

17. Paragraph 3.1.10(3); added subparagraph "a" and deleted "radiant floor heating". Added the sentence "The use of the prescriptive technology solution set is optional. The contractor can elect to develop his own unique solution as described under the Compliance Path."

18. Paragraph 3.1.10(3); Modified Note 3 below Climate Zone 8A table to read "Lighting power densities in accordance with the following table:"

19. Paragraph 3.1.10(3); Modified Day Lighting Table values for Repair Bay Baseline to "1.7 W/sq ft and 18.3 W/sq m"; and Recommendations to "1.3 W/sq ft and 14.0 W/sq m"

20. Paragraph 3.1.10(3); Added Fan Efficiency Table after note 5 under lighting levels table.

21. Paragraph 3.1.10(4); deleted paragraph (4) and added subparagraph "b" under paragraph (3). Added the phrase "(unique design solution)". Revised paragraph reference to 3.1.10(2).

22. Paragraph 3.1.10(5); changed paragraph (5) to paragraph (4). Revised paragraph reference to 3.1.10(3)b. Added the sentence "The plug loads in the following schedules shall be included in the energy simulation program but shall be manually subtracted from the calculations to compare the calculated budget to the target energy consumption budget in paragraph 3.1.10(2)."

23. Revised note 11 of Electrical Features Matrix as follows: "ASLMS Container is provided with the following: Each ASLMS container comes with a set of two – 150 foot cables with each end plug identical. The MS part number for the plug used on cable is MS3456W16-10P. Electrical circuit is 20 ampere, 120 volt, single phase. Provide the following power provisions for each ASLMS container: Two dedicated 20 ampere, 120 volt, single phase circuits for each ASLMS container with a special receptacle for each circuit. MS part number for special receptacle to be provided is MS3451W16-10S.

24. In Electrical Features Matrix for Communication Vehicle Dock, removed bullet from columns 28V DC, 208V Single PH, 208V-400 HZ, 208V 3PH-50 HZ, and Filtered Power.

25. Note 2 Electrical Features Matrix; Added "100A" to communications van and changed hospital van from 400A to 100A.

Rev 2.5 *28 March2008*

1. Revised note 10 of Electrical Features Matrix

2. Revised note 11 of Electrical Features Matrix to read as follows:

   "The ASLMS Container is provided with the following: Each ASLMS container comes with a set of two - 150 foot cables with each end plug identical. The MS part number for the plug used on the cable is MS3456W16-10P. The electrical circuit is 20 ampere, 120 volt, single phase.

   Provide the following power provisions for each ASLMS container: Two dedicated 20 ampere, 120 volt, single phase circuits for each ASLMS container with a special receptacle for each circuit. MS part number for the special receptacle to be provided is MS3451W16-10S."

3. Revised 3.1.1 as follows:

   (2) Maintenance Areas

(a) Function. Maintenance areas shall be equipped for inspection, oil changing and lubrication. All requirements listed above, except items (d), (e), (f), ~~(g),~~ <REV> and (h~~), and (i~~)</REV> apply to the maintenance areas. Bridge crane access is not required for maintenance areas in the core area, also, access to compressed air, water, power and data in the maintenance areas shall be via connections along the nearest wall.

(c) POL Hose Reels. Provide two POL dispensing points mounted to the wall of the maintenance area. They should be spaced along the length of the pit. <REV> Hose and reel assembly shall be heavy duty, designed for the applicable fluid (corrosion resistant) or oil. Provide shutoff valve at reel</REV>. Provide distribution for grease, engine oil, gear oil, transmission fluid, and antifreeze.

4. Removed last sentence in 3.1.2(9)

5. Added following sentence to Paragraph 3.1.2(12)(h):

   “Fluids shall be dispensed by automotive lubricant type air driven pump assemblies. Motor shall be heavy-duty compressed air driven reciprocating action. For antifreeze unit all parts shall be corrosion resistant”

6. Added following sentence to Paragraph 3.1.7(1):

   “The UAV Maintenance and Storage Building shall be designed to provide 100% of outdoor air with no recirculation and sized for minimum of 1.5 cfm per square foot per ASHRAE 62.1.”

7. Added the following to the first sentence of 3.1.7(2):

   “and Distribution Company Storage Building”

8. Added the following to the first sentence of 3.1.7(3):

   “welding area and weapons vault”

9. Revised Paragraph 3.1.7(4) to read as follows:

   “Vehicle Exhaust Evacuation Systems. Vehicle exhaust evacuation system for wheeled and tracked vehicles shall be provided at each repair area and each maintenance area along the vehicle corridor allowing for capturing exhaust fumes from stationary vehicles and vehicles moving in and out of the building and along the vehicle corridor. Consider viable alternative systems meeting the functional requirements of each of the areas of the facility. Size and locate the exhaust lines as required to service vehicles and equipment within the repair areas and the center drive through maintenance areas. Lines shall not interfere with maintenance operations or obstruct equipment such as the traveling bridge crane. The using service is responsible for providing the transition connectors (if required, depending on the type of exhaust system provided) between the vehicle exhaust and the vehicle exhaust system installed in the building. All system components must be compatible with the vehicle exhaust temperatures. Unless otherwise indicated by the user, design exhaust outlets for 1400 cfm and 700 degrees F. Exhaust evacuation systems in repair bays intended for repair of tracked vehicles shall be designed to withstand at least 1250 degrees F and shall have two exhaust outlets evacuating 1400 cfm each which can be connected to tracked vehicle’s exhaust grills. Ventilation in the maintenance and repair bays shall be as a minimum per

ASHRAE 62.1. Additional makeup air may be needed compensate for the exhaust requirements."

10. Revised Paragraph 3.1.8(3) to read as follows:

    "Compressed Air. Provide the compressed air outlets with quick disconnect couplings in all <REV> repair and maintenance areas along the vehicle corridor and in the Consolidated Bench Repair. Provide one compressed air outlet per bench in the Consolidated Bench Repair ~~structural bays~~</REV>. Each drop shall include an isolation valve, filter and pressure regulator, condensate trap with drain cock. Provide air compressor with receiver, refrigerated air dryer, filtration and pressure regulation. The air compressor shall be installed building equipment. Size air compressor for 10 CFM per outlet <REV> in the repair and maintenance areas and 5 cfm per outlet in the Consolidated Bench Repair</REV>, with a 60 percent diversity <REV>(assume 60% of all the drops in the facility will be in use at the same time)</REV>, plus any additional compressed-air equipment in the facility. Unless otherwise indicated by the user requirements in paragraph 6, provide compressed air at 120 psi."

11. Added new table in 3.1.10 under note 5

12. Removed last part of Note 7 in Mechanical Features Matrix.

Rev 2.3 *25 January 2008*

1. Paragraph 3.1.5: Deleted Paragraph (8) addressing Vestibules in its entirety.

2. Paragraph 3.1.8. (3): Delete letter "S" in abbreviation "SCFM" to read simply "CFM".

3. Paragraph 3.1.9.(1): In eighth sentence, beginning "Estimated load…" substitute "power requirement to each vehicle" in place of the word "load," changing the sentence to read: Estimated power requirements to each vehicle is 200 amps at 208 volt, 3-phase."

4. Paragraph 3.1.10.(4): Substitute "Paragraph (2)" for reference made to paragraph 3.3.2.

5. Paragraph 3.1.10.(5): Substitute "Paragraph (4)" for reference made to paragraph 3.3.4.

6. Paragraph 3.1.11: Insert paragraph addressing Furniture Systems and Table 7 "Room Size and Furnishings Chart."

7. Paragraph 3.2.(f): Insert new corrected Mechanical TEMF Features Matrix.

8. Paragraph 3.3: Insert "(FOUO)" to end of reference to AR 190-11 in Note 7.

REV 2.2 *17 January 2008*

1. Revised first sentence of Paragraph 3.1.9(4) to read as follows:

   "In the electrical equipment room provide a space for 3-phase, 200 ampere breaker in the main switch board."

2. Revised Architectural Matrix table located in Paragraph 3.2(e).

3. Revised Note 2 in the Mechanical Matrix notes in Paragraph 3.2(f) to be Not Used.

4. Revised Electrical Matrix table located in Paragraph 3.2(g).

5. Paragraph 3.2.(g): Note 10 to delete reference to “SATS” and to read: “208V single phase power with weather proof connection for tire changing machine in ASLMS containers.”

6. Added Paragraph 3.2.(g): Note 12 to read:

   “The SATS Container is provided with the following:

   1) Integrated 10 KW generator (208V, 3 phase 60 Hz)

   2) A wall mounted 100 Amp, 208 volt, 3-phase, 60 Hz AC conforming to MIL-C-22992, Class L, Style P comprised of a MS90558 C 44 4 shell, with an MS14055 insert having insert arrangement 44-12, along with a MS90564 44 C weather-tight cover.

   3) Signal entry panel (SEP) with the following connections: RS 232 Male/Female small and large, RJ 11 (phone), RJ 45 (LAN), 10 Base 2 (BNC), and 10 Base T (Ethernet).

   Provide the following power and data provisions for each SATS container:

   1) A branch circuit sized to the full load capacity of the 10kw generator to a weatherproof wall mounted 100 amp disconnect switch located within the cable’s reach.

   2) A pre-manufacturer cable, stock number 5995-01-435-8697. This cable is 50 foot long with a plug for the SATS receptacle at one end and terminal connections on the other end. Connect the cable’s terminal ends to the disconnect switch. Provide a means to hang the cable.

   3) A weatherproof RJ 11 (phone) and RJ 45 (LAN) outlet with the conduit and cables (Cat 6) to the Communication Room and connect per DOIM’s requirements. Provide 50 feet of exterior cable with appropriate connectors on each end for each outlet. Provide a means to hang the cables.”

REV 2.1 *19 November 2007*

1. Reference Paragraph 3.1.1(2)(b)

   Revise sentence "Provide minimum 4-inch concrete curb surrounding pit opening," to read: "Provide minimum 4-inch high steel angle curb surrounding pit opening".

2. Reference Paragraph 3.1.2(8)(b):

   Revise sentence "Provide stainless steel two-compartment sink..," to delete "with garbage disposal".

3. Reference Paragraph 3.1.2(9)(a):

   Revise sentence "Provide a GSA-approved Class 5 armory vault door and a day gate," to read: "Provide a GSA-approved Class 5 Armory vault door with lock in accordance with Fed. Spec. AA-D-600D and a day gate."

4. Reference Paragraph 3.1.2(12)(h):

   Revise sentence "Provide means to capture any potential contamination that may run off from this room," to read: "Provide secondary containment in compliance with applicable federal and state environmental regulations."

5. Reference Paragraph 3.1.2 (11):

   Revised the paragraph title to read “Telecommunication Equipment Room, TER”

6. Reference Paragraph 3.1.3(3)(a):

   Revise sentence "Provide means to capture any potential contamination that may run off from the floor of the building," to read: "Provide secondary containment in compliance with applicable federal and state environmental regulations."

7. Reference Paragraph 3.1.3(3)(b):

   Revise sentence "Provide means to capture any potential contamination that may run off from the floor of the building," to read: "Provide secondary containment in compliance with applicable federal and state environmental regulations."

8. Reference Paragraph 3.1.3 (3) (c):

   Add to the end of the paragraph:

   “The floor system of this facility should be designed for a fork-lift loading.“

9. Reference Paragraph 3.1.3(3)(g):

   Revise sentence "Provide secondary containment in compliance with applicable state environmental regulations," to read: "Provide secondary containment in compliance with applicable federal and state environmental regulations".

10. Reference Paragraph 3.1.3(3)(h):

    Revise sentence "Provide secondary containment in compliance with applicable state environmental regulations," to read: "Provide secondary containment in compliance with applicable federal and state environmental regulations".

11. Reference Paragraph 3.1.3(5):

    Revised to provide a bracketed options to indicate the following: "[POV parking to be provided by others.] [Provide POV parking at the rate of 56% of the total assigned personnel (this is predicated on a parking rate of 50% for military personnel and 100% for civilian employees).]"

    NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

12. Reference Paragraph 3.1.4(5):

    Revise sentence "One or more oil/water separators are required to remove, oil, lubricants, floatables, and grit from contaminated water sources (e.g., repair and maintenance areas, POL storage, etc.)," to read: "One or more oil/water separators are required to remove, oil, lubricants, floatables, and grit from contaminated water sources (e.g., repair and maintenance areas, POL fluids distribution, etc.)."

13. Reference Paragraph 3.1.4

    Added a revised site plan drawing and Statement: "The following drawing should be used to associate relative adjacencies for site structures."

14. Reference Paragraph 3.1.5.(3)

    Revise the Paragraph to read: "Natural Lighting. Repair and maintenance bays, storage and admin areas shall be illuminated using hybrid lighting systems which includes electric lighting with electronic daylight controls in combination with skylights with reflective tube that channels the light into the work area and a lens that diffuses the light. Open maintenance and storage sheds shall use hybrid lighting system with a dome-shape skylights. Provide operable windows for natural lighting and ventilation in administration and shop control, training room, break/training/conference room, and consolidated bench repair shop. Preference will be given for designs providing vision panels in overhead doors."

15. Reference Paragraph 3.1.5 (8)

    Add the Paragraph to read: "Vestibules. Preference will be given to designs which include vehicle entry/exit vestibules with airlocks to reduce infiltration and to precondition vehicles."

16. Reference Paragraph 3.1.7

    Revise the Paragraph to read:

    (1) Ventilation Supply system for the repair and maintenance bays and the vehicle corridor shall be designed to provide 100% of outdoor air with no recirculation and sized for minimum of 1.5 cfm per square foot per ASHRAE 62.1. Supply system's fan shall be equipped with a VFD and CO and NOX sensors to adjust supply airflow rate with a variable emission rate and use a pressure sensor to maintain positive pressure based on operation of a demand based local exhaust system. 50% duty cycle of the total available capacity of vehicle exhaust can be considered unless specified otherwise by the using service. Supply air shall be preheated in a <u>transpired solar collector</u>. For the Organizational Storage, Distribution Company Storage, POL Building, mechanical and electrical rooms, the ventilation rate shall be such that the space is maintained at a maximum of 10 degrees (F) above ambient conditions. Air supplied into admin area shall be cascaded into adjacent areas for pressurization and to prevent polluted air from entering the admin area.

    (2) Heating System Selection. Repair and maintenance bays, the vehicle corridor, and the UAV Maintenance and Storage Building are to be heated to 55 degrees F. Other site storage buildings are to be heated to 40 degrees F for freeze protection. For the Organizational Storage, Distribution Company Storage, POL Building, mechanical and electrical rooms, the ventilation rate shall be such that the space is maintained at a maximum of 10 degrees (F) above ambient conditions. Occupied spaces within the core shall be heated and cooled in accordance with Paragraph 5 of Section 01 11 00. Consider all viable alternative systems meeting the functional requirements of each of the areas of the facility. For the core spaces, consider packaged equipment, split systems or systems utilizing chilled/heating water from either a central plant or decentralized sources. Return air plenum systems are not allowed for Tactical Equipment Maintenance Facilities. Repair and maintenance areas, vehicle corridors, and

storage areas shall be heated using low intensity radiant floor hydronic heating system.

(3) Building Exhaust Systems. Provide exhaust systems at maintenance area pit, heat sources, and contamination sources. Maintenance area pit exhaust system will be ducted exhaust system with explosion proof fans. Exhaust systems will operate continuously while the building is occupied. Exhaust systems shall be in accordance with NFPA 30 and 30A. Energy recovery from exhaust air shall be used in climate zones 3 through 8. Consider use of evaporative air pre-cooling in hot climates.

(4) Vehicle Exhaust Evacuation Systems. Vehicle exhaust evacuation system for wheeled and tracked vehicles shall be provided at each repair area and along the vehicle corridor allowing for capturing exhaust fumes from stationary vehicles and vehicles moving in and out of the building and along the vehicle corridor. Consider viable alternative systems meeting the functional requirements of each of the areas of the facility. Size and locate the exhaust lines as required to service vehicles and equipment within the repair areas. Lines shall not interfere with maintenance operations or obstruct equipment such as the traveling bridge crane. The using service is responsible for providing the transition connectors (if required, depending on the type of exhaust system provided) between the vehicle exhaust and the vehicle exhaust system installed in the building. All system components must be compatible with the vehicle exhaust temperatures. Unless otherwise indicated by the user, design exhaust outlets for 1400 cfm and 700 degrees F. Exhaust evacuation systems in repair bays intended for repair of tracked vehicles shall be designed to withstand at least 1250 degrees F and shall have two exhaust outlets evacuating 1400 cfm each which can be connected to the tracked vehicle's exhaust grills. Ventilation in the maintenance and repair bays shall be as a minimum per ASHRAE 62.1. Additional makeup air may be needed compensate for the exhaust requirements.

17. Reference Paragraph 3.1.9 (3)(a):

    Revise last sentence to read as follows: "Provide a pathway for four strands of multimode fiber optic cables per terminal connection point. Number and type of fiber optic cables are provided for sizing of conduits only."

18. Reference Paragraph 3.1.9 (4)(a)i:

    Revise first sentence to read as follows: "Power Service. In the electrical equipment room provide a space for 3-phase, 200 ampere breaker in the main switch board and allow space for future inverters, rectifiers, batteries and power distribution systems for hardstand special power requirements."

19. Reference Paragraph 3.1.9 (4)(n)i:

    Add the following sentence at the end: "Coordinate fire alarm system requirements with the Fire Department's Representative during design."

20. Reference Paragraph 3.1.9(4):

    Add the following paragraph:

    "(o) Telecommunications Design. Telecommunications design must be performed and stamped by a Registered Communications Distribution Designer

(RCDD) with 2 years related experience or person with 5 years related experience. The information systems designer must prepare the test plan, and witness and certify the testing of telecommunications cabling. In the I3A Technical Guide, the word "shall" shall be substituted for the word "should" throughout the document. The I3A Technical Guide shall be considered to be MANDATORY Criteria."

21. Added new Compliance with the Energy Policy Act of 2005 (EPACT 05) requirements as paragraph 3.1.10. All subsequent paragraphs have been renumbered.

    NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

22. Reference Architectural TEMF Features Matrix:

    Add requirement for "Overhead Coiling Doors – 10 ft. x 10 ft." for the "UAV Maint. And Storage Building."

23. Reference Electrical/Telecommunications TEMF Features Matrix:

    Delete requirement for data connection for the following areas:

    "COMMUNICATIONS ROOM
    SIPRNET ROOM
    ORG STORAGE
    DISTRIBUTION COMPANY STORAGE FACILITY"

24. Replace new Paragraph 3.4.6 since it is no longer used with "Not used".

REV 2.0 *10 September 2007*

1. This contains numerous changes throughout the document as a result of lessons learned. This section should replace all previous sections in entirety. **This change will only affect projects with the fiscal year of FY2008.**

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 1.3 *15 August 2007*

1. Revised all references from old numbering system to Master Format 2004

REV 1.2 *16 March 2007*

1. Paragraph 3.1.1 (a) (7) Replace "(FEE)" with "(GFGI)" to indicate Government furnished, Government installed equipment.

2. Paragraph 3.1.2 (f) (1) Replace the incorrect term "SATS" with "AS-LMS" in the last sentence.

3. Paragraph 3.1.2.(k) Revise the following sentences per ISEC's recommendations: "Space shall also be provided in the form of a six foot by six foot room, adjacent to the main TER for future SIPRNet connectivity. The SIPRNet room shall be designed and constructed in accordance with the Technical Guide for the Integration of Secret Internet Protocol Router Network (SIPRNet). Each repair area workstation and office space will have a NIPRNet connection."

4. (d) Paragraph 3.1.3(b)(4) Replace “Connection to NIPRNet and SIPRNet (future use) will be established through multimode fiber optic cabling” with “Data connectivity to the parking pad will be established through multimode fiber optic cabling from a dedicated patch panel in the telecommunications room. This connectivity will allow simulation and training at the parking pad.” Add sentence: “Provide power connections to Hardstand for existing equipment as required in Features Matrix.”

5. Paragraph 3.1.4 (a) Revise the maximum slope in the hardstand area to a safer slope by replacing the term “5%” with “2% in the direction of the parking and 4% perpendicular to the direction of the parking”.

6. Paragraph 3.1.5 (d) (7) Describe the end of building overhead doors by the addition of the following at the end of the first sentence: “and at each end of the building at each end of the Maintenance Bay Corridor.”

7. Paragraph 3.1.9 (b) Address User equipment requirements with the following added statement: “Coordinate with the User for the electrical characteristics of the equipment to be provided by the Government.”

8. Site Adjacency Diagram - Change 45’ dimensions between the primary building and other structures to 65’.

REV 1.1 15 October 2006

1. Paragraph 3.1.1.(a)(3) was revised by adding the following to the existing sentence:

2. “Size air compressor for 10 SCFM per outlet, with a 60- percent diversity, plus any additional compressed-air equipment in the facility”.

3. Paragraph 3.1.1.(c)(2) was revised by replacing “bay farthest from core if the distance from an eye wash station exceeds 100 feet” with “other bays as required per OSHA standard 1910.151(c) and ANSI Z358.1 (reference 8).”

4. Paragraph 3.1.2.(c)(1) was revised by replacing “18’-0” “ with “10’-0” “.

5. Paragraph 3.1.2.(i)(2) was revised by replacing “AR 380-40 Policy for Safeguarding & Controlling Communications Security Material for information governing COMSEC Vaults (reference 3)” with “AR 380-5, Department of the Army Information Security Program”.

6. Paragraph 3.1.2.(k) was rewritten as reads as follows:

   “Telecommunications Equipment Room. Telecommunications rooms shall be provided for voice and data. There shall be a minimum of one room on each floor, located as near the center of the building as practicable, and stacked between floors. The telecommunications rooms will be designed in accordance with the I3A Guide and ANSI/EIA/TIA-569-B. Space shall also be provided for future SIPRNet connectivity in accordance with the Technical Guide for the Integration of Secret Internet Protocol Router Network (SIPRNet). Each repair area workstation and 10% of the office spaces will have a NIPRNet and SIPRNet (future use) connection. Each classroom will have a voice outlet and a data connection for each seat and an instructor.”

7. Paragraph 3.1.3.(b)(4) was revised by inserting after “underground conduits”, “with pull-wires” in first sentence. In the 4th sentence, replaced “Power“ with “Conduits”, “user” with “future”, inserted “wiring” after “power” and added “(by others)” after “each vehicle”.

8. Paragraph 3.1.3.(b)(5) was revised by deleting “Spaces are to be 9 feet by 16 feet, where vehicle overhand occurs, and 9 feet by 18 feet where no overhang occurs. Aisles are to be 24 feet wide.”

9. Paragraph 3.1.3.(c)(3) was revised by inserting “approximately” before “25 feet” in the last sentence.

10. Paragraph 3.1.4.(a) was revised by adding “The maximum allowable slope for the hardstand shall be 5%.” at the end of the paragraph.

11. Paragraph 3.1.4.(b) was revised by inserting “a single outrigger” after “with”, “non-sensored” after “anti-climber” and “FE-6” after “872-90-03” in the second sentence.

12. Paragraph 3.1.5.(c) was revised by replacing “Section 3.3.7a of this document” with “Paragraph 5 of Section 01010”.

13. Paragraph 3.1.5.(d)(1) was revised by deleting “and any State Historic Preservation Office (SHPO) guidelines.”

14. Paragraph 3.1.6.: was revised by adding “Fire alarm systems shall be addressable type with addressable devices. The type, function and location of the fire alarm annunciator shall be coordinated with the local authority having jurisdiction.” at the end of the paragraph.

15. Paragraph.3.1.7.(a)(3) second bullet was revised by inserting “exhaust” after “Design” and add “1.5 cfm per square foot (per ASHRAE 62.1). ?

16. Paragraph 3.1.7.(b) was revised by adding “Repair and maintenance bays and the UAV Maintenance and Storage Building are to be heated to 55 o F. Other site storage buildings are to be heated to 40o F for freeze protection. Occupied spaces within the core shall be heated and cooled in accordance with Paragraph 5 of Section 01010” after “System Selection.”

17. Paragraph 3.1.7.(d) was revised by inserting “Unless otherwise indicated by the user, design drops for 1400 cfm and 700 ° F.” after the 4th sentence.

18. Paragraph 3.1.7.(e) was revised by inserting “Control” after “Monitoring”.

19. Paragraph 3.1.9.(a) was revised by inserting “In the electrical equipment room provide a spare 3-phase breaker and allow space for future inverters, rectifiers, batteries and power distribution systems for hardstand special power requirements.” after the 2nd sentence.

20. Paragraph 3.1.9.(e) was revised by inserting “or T5HO” after “T8” in the 2nd sentence.

21. Paragraph 3.1.9.(f) Table 5 OUTLET DENSITIES was revised in the following manner:

(a) For FUNCTIONAL AREA “Warehouse, Storage, and Miscellaneous Rooms” replace “5000” with “2000” under “AREA PER OUTLET (SF)”.

(b) The seventh FUNCTIONAL AREA was revised to read “Repair Shops (Consolidated bench repair, Battery, etc.)”.

(c) The second paragraph under paragraph 3.1.9.(f) was revised to read as follows:

“Telecommunications cabling will be Category 6 for all voice and data connections unless length of run warrants need for multimode fiber optic cable. Provide number and type of connectors as defined by the user.”

(d) Paragraph 3.1.10.(a) was revised to read as follows:

“Traveling Bridge Cranes. Provide, 10 ton capacity traveling bridge cranes, full width over repair areas and maintenance areas (with exception of maintenance area running through the core area). [Provide one 35 ton bridge crane in the primary brigade TEMF (typically the Brigade Support Battalion facility).] Hook height on 10 ton bridge cranes will be 20 feet to the cradle of the hook. [Hook height on 35 ton bridge cranes will be 25 feet to the cradle of the hook.]”

22. Paragraph 3.2. FUNCTIONAL/OPERATIONAL REQUIREMENTS was revised in the following manner:

(a) Add “Note: This graphic represents the ground floor area only.” after the bubble diagram of the SMALL TEMF.

(b) Add “Note: This graphic represents the ground floor area only.” after the bubble diagram of the MEDIUM TEMF.

(c) Add “Note: This graphic represents the ground floor area only. For Large TEMF facilities it is permissible to split the repair/maintenance areas into two wings on either side of the core.” after the bubble diagram of the LARGE TEMF.

(d) Add “Note: This graphic represents the ground floor area only. For Extra Large TEMF facilities it is permissible to split the repair/maintenance areas into two wings on either side of the core.” after the bubble diagram of the EXTRA LARGE TEMF.

23. Paragraph 3.2 e. TEMF Features Matrix was revised in the following manner:

(a) Sheet 1 was revised by adding “& POL STORAGE BUILDINGS” after “HAZ WASTE” under “FUNCTIONAL AREAS”

(b) Sheet 2 was revised by adding a bullet under the “Heat” column for “CONSLIDATED BENCH REPAIR” and adding “& POL STORAGE BUILDINGS” after “HAZ WASTE” under “FUNCTIONAL AREAS”.

(c) Sheet 3 was revised by adding “13/19” under “208-230V 3PH” and “11” under “208V, 3PH, 50HZ” opposite “MAINTENANCE AREAS”; adding “12” under “28V DC”, “10” under “208V, 400HZ”, and “12” under “270V DC” opposite “HARDSTAND”; adding a bullet under Note ‘TELEPHONE” and “DATA CONNECTION” opposite “ORG STORAGE”; adding a bullet under ‘TELEPHONE” and “DATA CONNECTION” opposite “UAV MAINT &

STORAGE BLDG"; adding "& POL STORAGE BUILDINGS" after "HAZ WASTE" under "FUNCTIONAL AREAS"; and adding a bullet under 'TELEPHONE" and "DATA CONNECTION" opposite "DISTRIBUTION COMPANY STORAGE FACILITY".

(d) Sheet 4 was revised by adding a bullet under the "Heat" column for "CONSLIDATED BENCH REPAIR" and adding "& POL STORAGE BUILDINGS" after "HAZ WASTE" under "FUNCTIONAL AREAS".

24. Under "Notes for TEMF Features Matrix", Note12 was revised to read as follows: "Pathway of conduit with pull-wires only. Future wiring and cabling by others."

25. Paragraph 3.3. REFERENCES (Part II) was revised in the following manner:

(a) Note 3. was revised to read as follows: "AR 380-5, Department of the Army Information Security Program."

(b) Note 7. was revised to read as follows: "UFC 3-550-3, Design: Electrical Power and Supply Distribution."

(c) Note 15. was revised to read as follows: "Technical Guide for the Integration of Secret Internet Protocol Router Network (SIPRNET)."

REV 1.0 *15 May 2006*

1. Baseline Document

PARAGRAPH 3 – COMMAND AND CONTROL FACILITY (C2F)

REV 3.0 *30 October 2012*

1. Revised in its entirety to match new paragraph 3 formatting and to coinside with the revised Army Standard.

REV 2.0 *08 October 2010*

1. Revised in its entirety.

REV 1.1 *18 March 2007*

1. Para 3.3.2(n) - Corrected spelling of "room".

2. Para 3.3.4(c) - Added the following sentence "Actual internal equipment loads (i.e. heat dissipation) for finalized HVAC system sizing purposes shall be acquired from the USER or applicable point-of-contact (POC), and is the responsibility of the Design/Build Contractor. For baseline purposes, estimated internal equipment loads (i.e. heat dissipation) shall be as follows: "

3. Para 3.3.4(h) - Added the following to the list of applicable spaces "and the executive conference room".

4. **REDUNDANCY/RELIABILITY MATRIX - Add the** Command Suite, AV control room associated with the OC (COIC), and UPS Rooms to the list of areas to receive mechanical redundancy. Also, d**elete notes 3, 4, and 5 and provide the following new notes:**

3. HVAC Equipment is not required to be on UPS.
4. Controls must have battery back-up or non-volatile memory to facilitate automatic re-start upon restoration of stand-by or normal power.
7. Applicable only to the equipment serving the critical areas listed in the “Air-handling Equipment and Associated Controls” category where 100% dedicated redundancy is indicated to be required.

5. **Para 3.3.5 (d)(5) - Highlight and underline the word ALL.**

6. **Para 3.3.5 (d)(6) -** Added the following to the list of applicable spaces "and the executive conference room".

7. Para 3.3.5 (d)(7) - Add the phrase "including the stand-by power system."

REV 1.0 *22 October 2007*

1. Baseline Document.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 3 – OPERATIONAL READINESS TRAINING COMPLEX (ORTC)

REV 5.0 *30 October 2012*

1. Revised in its entirety to match new paragraph 3 formatting and to coinside with the revised Army Standard.

REV 4.6 *31 August 2012*

1. All drawings have been revised.

REV 4.5 *15 March 2012*

1. Para. 3.1 – Corrected spelling.

2. Para. 3.2 – Added “or not applicable.”

3. Para. 3.2.2.1 – Clarified and added to POV parking requirements per revised Army Std.

4. Para. 3.2.2.5 – Added clarification to be in accordance with ATFP.

5. Para. 3.2.3.3 – Changed window screens to insect screens.

6. Para. 3.2.3.5 – Indicated STC on drawings.

7. Para. 3.2.4.1 – Deleted Company Headquarters Hardstand and Company Sheds.

8. Para. 3.2.4.2 – Deleted Company Headquarters Hardstand and Company Sheds.

9. Para. 3.2.5 – Added reference to paragraph 6.

10. Para. 3.2.6 – Added reference to paragraph 6.

11. Para. 3.2.7 – Added reference to paragraph 6.

12. Para. 3.2.8 – Added reference to paragraph 6.

13. Para. 3.2.3.2 – Deleted reference to company sheds.

14. Para. 3.2.8.5 – Clarified reference.

15. Para. 3.2.8.6(A) – Clarified verbiage for senior leaders quarters.

16. Para. 3.2.8.6(B) – Added requirement for wireless in open bay barracks.

17. Para. 3.2.8.6(D) – Deleted Company Sheds and Covered Hardstand references.

18. Para. 3.2.8.7(A) – Deleted Company Hqs and BN Hqs SIPRNET Rooms.

19. Para. 3.2.8.8(B) – Clarified senior leaders quarters verbiage.

20. Para. 3.2.8.9 – Deleted sustainable design exemptions for Covered Hardstand and Company Sheds.

21. Para. 3.3.1 – Deleted assembly reference and classrooms from occupancy classifications.

22. Para. 3.3.2.1(C) – Clarified reference to wood doors.

23. Para. 3.3.3.4 – Changed Men's toilet room requirements.

24. Para. 3.3.3.5 – Changed Women's toilet room requirements.

25. Para. 3.3.3.7(B) – Added clarification that ATFP does not apply to the mail distribution room.

26. Para. 3.3.3.11(B) – Clarified requirement for electrical room door.

27. Para. 3.3.3.12 – Changed to Telecomm Room.

28. Para. 3.4.1 – Clarify surge requirement in third paragraph. Add requirement for installation to determine furnishings options as a fourth paragraph.

29. Para. 3.4.2 – change living/sleeping bays to open bays.

30. Para. 3.4.2.1(A) – Clarify senior leaders quarters.

31. Para. 3.4.3.3(B) – Add removable louver as an option.

32. Para. 3.4.3.5 – Change to Telecomm Room.

33. Para. 3.4.3.11 – Clarify Senior Leader Quarters.

34. Para. 3.4.3.13 – Change Team Room to Company Storage.

35. Para. 3.4.3.13(A) – Require adequate framing to mount TV.

36. Para. 3.4.3.13(B) – Require power and data.

37. Para. 3.4.3.13(C) – Clarify usage of Company Storage.

38. Para. 3.5.1 – Clarify surge requirement in third paragraph. Add requirement for installation to determine furnishings options as a fourth paragraph.

39. Para. 3.5.2 – change living/sleeping bays to open bays.

40. Para. 3.5.2.1(A) – Clarify senior leaders quarters.

41. Para. 3.5.3.4(B) – Add removable louver as an option.

42. Para. 3.5.3.6 – Change to Telecomm Room.

43. Para. 3.5.3.12 – Clarify Senior Leader Quarters.

44. Para. 3.5.3.13 – Change Team Room to Company Storage.

45. Para. 3.5.3.14(A) – Require adequate framing to mount TV.

46. Para. 3.5.3.14(B) – Require power and data.

47. Para. 3.5.3.14(C) – Clarify usage of Company Storage.

48. Heading 3.6 – Add Senior Leaders Quarters.

49. Para. 3.6.1 – Add Senior Leaders Quarters, twice in first paragraph, once in third, and once in fourth.

50. Para. 3.6.2 – Add Senior Leaders Quarters.

51. Para. 3.6.2(D) – Clarified wood doors.

52. Para. 3.6.3.3(C) – Added removable louver option.

53. Para. 3.6.3.4(A) – Clarified electrical room location.

54. Para. 3.6.3.5 – Changed to Telecomm Room.

55. Para. 3.6.3.8(A) – Added data requirement for TV.

56. Para. 3.6.3.8(D) – Added power and data requirement for walls.

57. Para. 3.7.1 – Changed to Small and Large DFAC in second paragraph.

58. Para. 3.7.4.15(A) – Clarified mechanical room.

59. Para. 3.7.4.16(A) – Clarified electrical room.

60. Para. 3.7.4.17 – Changed to Telecomm Room.

61. Para. 3.8.1 – Deleted Covered Hardstand requirements.

62. Para. 3.8.2 – Deleted Covered Hardstand requirements.

63. Para. 3.8.2.2(A) – Deleted requirement for bollards for Covered Hardstand.

64. Para. 3.8.3.1 – Deleted Covered Hardstand from title.

65. Para. 3.8.3.1(A) – Deleted requirements for Covered Hardstand.

66. Para. 3.8.3.3(E) – Add requirement for electric outlets and floor drain in weapons vault.

67. Para. 3.8.3.4(A) – Deleted covered hardstand from last statement.

68. Para. 3.8.3.4(C) – Changed to telecomm room

69. Para. 3.8.3.4(D) – Deleted SIPRNET room and requirements.

70. Para. 3.9.3.1 – Changed Weapons Cleaning Area to Work Bench Area.

71. Para. 3.9.3.1(A thru F) – Changed requirements to be for Work Bench Area.

72. Para. 3.9.3.2(B) – Changed requirement of 16’ high door to 20’ high door.

73. Para. 3.9.3.2(D) – Clarified window requirement for VMS office into service bay.

74. Para. 3.9.3.5(B) – Added weapons cleaning supply and POL storage requirement to Tool Room.

75. Para. 3.9.3.6(G) – Clarified that the storage racks shall be provided by training units or Installation.

76. Para. 3.9.3.9 – Changed to Telecomm Room.

77. Para. 3.9.3.10(C) – Added 3’-0” overhang requirement for tool room doors.

78. Para. 3.9.4.1(A) – Changed to telecomm and included para. 6 for climate determined cooling.

79. Para. 3.9.4.2(A) – Changed weapons cleaning to the work bench area.

80. Para. 3.9.4.2(D) – Changed to telecomm.

81. Para. 3.10 – Deleted Company Sheds per Army Std revisions.

82. Para. 3.10.3.1 – Added video teleconferencing,

83. Para. 3.11.3.11 – Changed to Telecomm Room.

84. Para. 3.11.3.12(A) – Changed SIPRNET Room size and added requirement to include SIPRNET use within the room rather than in offices.

85. Para. 4.0 – Deleted heading “Standard Design Drawing Index”. Changed DFAC titles to Small and Large. Deleted Storage Shed, General Purpose. Renumbered Brigade Hqs drawings.

REV 4.4 *30 September 2011*

1. Para. 3.4.3.1 – Revise language to provide (5) recycling bins.

2. Para. 3.2.3.5 – Add language concerning sound transmission.

3. Para. 3.2.8.6 – Revise requirement for empty conduit.
4. Para. 3.2.8.7 – Revised IDS language.
5. Para. 3.2.8.8, A. – Add smoke detection requirements.
6. Para. 3.2.8.8, B. – Clarify language concerning smoke detection in sleeping rooms.
7. Para. 3.3.3.2, A. – Revised 4” to 6”.
8. Para. 3.3.3.3, C. – Revise language and add STC requirement for operable partitions.
9. Para. 3.3.3.4, A. – Revised 4” to 6”.
10. Para. 3.3.3.5, A. – Revised 4” to 6”.
11. Para. 3.3.3.6, A. – Revised 3’-0” to 4’-0”.
12. Para. 3.3.3.7 – Add Room to heading.
13. Para. 3.3.3.8, A. – Add requirement for power to vending machines.
14. Para. 3.4.1 – Revise to change E7-E8 to Senior Leaders.
15. Para. 3.4.2.1, A. - Revise to change E7-E8 to Senior Leaders.
16. Para. 3.4.3.6 – Revised requirements for windows in open bays.
17. Para. 3.4.3.8, B. – Revised 4” to 6”.
18. Para. 3.4.3.10, A. – Revised 3’-0” to 4’-0”.
19. Para. 3.4.3.11 - Revise to change E7-E8 to Senior Leaders.
20. Para. 3.4.3.12 - Revise to change E7-E8 to Senior Leaders.
21. Para. 3.4.3.12, A. – Revised 4” to 6”.
22. Para. 3.5.1 – Revise to change E7-E8 to Senior Leaders.
23. Para. 3.5.3.3, B. – Add elevator cab depth requirement.
24. Para. 3.5.3.7, A. – Revised requirements for windows in open bays.
25. Para. 3.5.3.9, B. – Revised 4” to 6”.
26. Para. 3.5.3.11, A. – Revised 3’-0” to 4’-0”.
27. Para. 3.5.3.12 - Revise to change E7-E8 to Senior Leaders.
28. Para. 3.5.3.13 - Revise to change E7-E8 to Senior Leaders.
29. Para. 3.5.3.13, A. – Revised 4” to 6”.

30. Para. 3.5.3.14, C. – Add requirement for casework in team rooms.
31. Para. 3.6.1 – Revise to change E7-E8 to Senior Leaders.
32. Para. 3.6.3.7, A. – Revised 4” to 6”.
33. Para. 3.6.3.8, A. – Add requirement for power and cable.
34. Para. 3.6.3.8, B. – Revise language.
35. Para. 3.6.3.11, A. – Revised 3’-0” to 4’-0”.
36. Para. 3.8.3.3, B. – Revised 3’-0” to 4’-0”.
37. Para. 3.9.3.1, F. – Add requirement for data points in weapons cleaning.
38. Para. 3.9.3.2, A. – Add floor slope requirement.
39. Para. 3.9.3.2, L. – Add requirement for 208V power receptacles in repair bays.
40. Para. 3.9.3.2, M. – Add requirement for ground buses.
41. Para. 3.9.3.4, A. – Revised 3’-0” to 4’-0”.
42. Para. 3.9.3.6, H. – Add requirement for power point to charge forklift batteries.
43. Para. 3.11.3.2, A. – Revised 4’ to 6”.
44. Para. 3.11.3.4, A. – Revised 4’ to 6”.
45. Para. 3.11.3.5, A. – Revised 4’ to 6”.
46. Para. 3.11.3.6, A. – Revised 3’-0” to 4’-0”.

REV 4.3 *31 August 2011*

1. Para. 3.4.3.1 – Revise language to provide (5) recycling bins.
2. Para. 3.4.3.7, A. – Revise to provide Eight washers, NIC.
3. Para. 3.4.3.7, B. – Revise to provide Ten dryers, NIC.
4. Para. 3.4.3.8, A. – Revise to provide Four toilet partitions in lieu of Eight.
5. Para. 3.4.3.8, B. – Revise to provide Four vanities in lieu of Eight.
6. Para. 3.4.3.9, A. – Revise to provide Six shower stalls in lieu of 14.
7. Para. 3.4.3.9, C. – Revise to solid polymer.
8. Para. 3.4.3.9, E. – Revise to provide criteria for each shower/dressing area.
9. Para. 3.4.3.13 – Revise Common Area to read Team Room.

10. Para. 3.4.3.13, A. – Revise language for conferencing area/seating and television requirements.

11. Para. 3.4.3.13, B. – Delete requirement for tables and seating. Revise to include data connection.

12. Para. 3.4.3.13, C. – Delete.

13. Para. 3.4.3.14 – Delete.

14. Para. 3.5.3.1, D. – Revise language to provide (5) recycling bins.

15. Para. 3.5.3.3, A. – Revise language to read Elevator, provide one in lieu of two.

16. Para. 3.5.3.8, A. – Revise to provide Eight washers, NIC.

17. Para. 3.5.3.8, B. – Revise to provide Ten dryers, NIC.

18. Para. 3.5.3.8, E. – Revise to provide Floor Drains.

19. Para. 3.5.3.9, A. – Revise to provide Four toilet partitions in lieu of Eight.

20. Para. 3.5.3.9, B. – Revise to provide Four vanities in lieu of Eight.

21. Para. 3.5.3.10, A. – Revise to provide Six shower stalls in lieu of 14.

22. Para. 3.5.3.10, C. – Revise to solid polymer.

23. Para. 3.5.3.10, E. – Revise to provide criteria for each shower/dressing area.

24. Para. 3.5.3.14 – Revise Common Area to read Team Room.

25. Para. 3.5.3.14, A. – Revise Common Area to read Team Room. Revise language for conferencing area/seating and television and mounting bracket requirements.

26. Para. 3.5.3.14, B. – Delete requirement for tables and seating. Revise to include data connection.

27. Para. 3.5.3.14, C. – Delete.

28. Para. 3.5.3.15 – Delete Reading Area.

29. Para. 3.6.3.7, D. – Revise shower type.

30. Para. 3.6.3.7, E. – Revise requirement for accessories.

31. Para. 3.6.3.8, A. – Revise to include language for television and wall mounting bracket.

32. Para. 3.6.3.8, C. – Revise to include NIC information.

33. Para. 3.6.3.10, A. – Revise, washers NIC.

34. Para. 3.6.3.10, B. – Revise, dryers NIC.

35. Para. 3.6.3.12, B. – Revise to include NIC information.

REV 4.2 *31 July 2011*

1. Para. 3.1 – Delete and replace second paragraph.

2. Para. 3.3.3.8, B. – All ice machines descriptions changed to require as GFGI item provided by installation.

3. Para 3.3.3.13 – Added requirement for SIPRNET in Commander and XO Offices.

4. Para 3.8.2.2, A. – Overhead Doors shall be mortorized coiling/roll-up or sectional doors.

5. Para 3.8.3.3, D. – Overhead Doors shall be mortorized coiling/roll-up or sectional doors.

6. Para 3.8.3.4, D. – Added requirement for SIPRNET in Commander and XO Offices.

7. Para 3.9.2.2, A. – Overhead Doors shall be mortorized coiling/roll-up or sectional doors.

8. Para 3.9.3.1, B. – Overhead Doors shall be mortorized coiling/roll-up or sectional doors.

9. Para 3.9.3.2, B / G / I. – Overhead Doors shall be mortorized coiling/roll-up or sectional doors.

10. Para 3.9.3.6, E. – Overhead Doors shall be mortorized coiling/roll-up or sectional doors.

11. Para. 3.11.3.7, B. – All ice machines descriptions changed to require as GFGI item provided by installation.

12. Para 3.11.3.12, A. – Added requirement for SIPRNET in Commander and XO Offices.

REV 4.1 *05 May 2011*

1. All Janitor Closets descriptions changed to include backsplashes and shelving supporting 30lb per linear feet.

2. All ice machines descriptions changed to require utilities be provided for FF&E ice machines.

3. All Comm Room descriptions, except for Barracks and Officers Quarters, changed to require minimum size of 1.1% of the bldg footprint.

4. Para. 3.2.3.2 – High impact added to description of plaster coatings.

5. Para. 3.2.3.4 – Restroom and Bathroom accessories paragraph added.

6. Para. 3.2.4 – Bldg Categories changed and Seismic Importance Factors changed for barracks.

7. Para. 3.3.3.1 A – Requirements changed from (2) S6 Officers spaces to one space.

8. Para. 3.3.3.13 – SIPRNET rooms required to be minimum 6’x6’.

9. Para. 3.4 – 2-Story added to barracks description.

10. Para. 3.4.3.1 – Three vending machines changed to two vending machines.

11. Para. 3.4.3.11&3.6.3.6 – Closets in sleeping rooms changed to require shelving that supports 30lb per linear feet.

12. Para. 3.4.3.13 – Data/internet ports added for common areas.

13. Para. 3.5 – Added description for 4-story barracks.

14. Para. 3.6.1 – Changed officers to senior leaders. Changed 20 modules to 40 sleeping rooms. Added the sink outside the bathroom to the description. Deleted of reading lounge description for second floor.

15. Para. 3.6.3.3 – Added requirement for second floor mechanical room interior access door and double exterior doors for equipment replacement.

16. Para. 3.7.1 – Added requirement for loading dock to have automatic sprinklers.

17. Para. 3.7.2.2 – Added requirement for loading dock to be 15’ deep. Indicated that width shall accommodate the ramp, stair, and truck dock locations shown.

18. Para. 3.7.3 – Added sentence, Regardless of the ceiling features provided, no building structure or materials shall be exposed due to cleanliness requirements.

19. Para. 3.7.3.2 – Added requirement for a solid aluminum threshold at the receiving vestibule door leading to the loading dock. Also required Emergency “exit only” doors be provided with a local audible alarm.

20. Para. 3.7.4.8 – Deleted requirement for IDS in admin office.

21. Para. 3.7.4.10 – Deleted requirement for Dry Storage walls to go to roof deck.

22. Para. 3.7.4.11 – Changed conduits to 6-inch.

23. Para. 3.7.4.12 – Added statement, Dishwash room drains shall be directed to the solids and grease interceptors.

24. Para. 3.7.5.3 – Added statement, In the food service areas, where mobile equipment requires electrical power, and the equipment is not next to a fixed wall where a receptacle can be provided, provide a retractable drop cord from the ceiling in lieu of a floor mounted box.

25. Para. 3.8.2 – Deleted warehouse as description for covered hardstand.Added requirement for roof insulation to prevent condensation.

26. Para. 3.8.3.4 – Added requirement for mech room doors to open on the front side of the bldg.

27. Para. 3.8.3.4 – Added requirement for SIPRNET room to be minimum 6’x6’.

28. Para. 3.9.1 – Added note, This facility is for transient training, therefore has different critieria than a Tactical Equipment Maintenance Facility (TEMF).

29. Para. 3.9.3.1 E – Revised language.

30. Para. 3.9.3.2 J – Added statement, Assume that 66% of all air outlets are in use at the same time.

31. Para. 3.9.3.2 K – Added statement, Provide exhaust system for pit area, ducted with explosion proof fans.

32. Para. 3.9.3.6 B – Added requirement for data and phone in tool room.

33. Para. 3.9.4.1&2 – Added HVAC requirements.

34. Standard Design Drawings

    a. Sheet Border updated to reflect drawing index revisions and COS website change.

    b. A001 - Utility room sizes and locations revised in BN HQ Floor Plan.

    c. A001 - Classroom sf in BN HQ Floor Plan corrected.

    d. A003 – 2-Story Barracks recycle area provided.

    e. A004&A006 – 2-story Barracks Stair to outside access to mechanical room removed. Mechanical room access remains for equipment replacement only.

    f. A005 – 2-story Barracks Living/sleeping module floor area hatched for clarification.

    g. A007-A012 – 4-Story Barracks drawings added.

    h. A013 – Officers Quarters Living/sleeping module floor area hatched for clarification.

    i. A016&A017 – Dining Facility comm. and electrical room sizes revised.

    j. A016&A017 – Dining Facility finish schedule corrected to match plan.

    k. A019&A020 – Company HQ Utility rooms resized. Door moved for outside access to Recycle room.

    l. A020 – Company HQ finish schedule corrected to match plan.

    m. A020 – Company HQ Weapons vault door shown.

    n. A020 – Company HQ Janitor's closets added.

    o. A025 – BG HQ Comm & SIPRNET room sizes revised.

REV 4.0 *04 March 2011*

1. Major revision

REV 3.0 *30 September 2010*

1. Major revision

REV 2.1 *31 July 2010*

1. Para 3.1 General (3), has been revised to include additional language:

   "(*Reference applicable Appendix for additional Functional and Operational Requirements: Dining Facility (EPDF)*)"

2. Sheet Border updated to reflect Louisville District's standard border.

3. DFAC (720 & 1428) have been revised to meet NAO dining, preparation, and services needs; SF remains the same for both size facilities.

REV 2.0 *31 December 2009*

1. Revised in its entirety.

REV 1.4 *30 May 2008*

1. Paragraph 3.2.2.2.1 Barracks - Deleted the sentence: "The Barracks consist of a two story structure." In its place added the following sentence: "The barracks consists of a multi-story structure

REV 1.3 *18 April 2008*

1. Delete in its entirety, Table 1: Army Standards for Operational Readiness Training Complexes.

2. Reference para. 3.2.1 Battalion Complex Facilities – in parenthesis add: (See site plans under separate cover).

3. Ref. para 3.2.1.1 – Delete in its entirety the Battalion Site Plan.

4. Delete "25%" from paragraph 3.2.1.1(4).

5. Delete in its entirety para. 3.2.2 Brigade Complex Facilities and 3.2.2.1. Note that this includes the Brigade Site Plan also.

6. Para 3.2.3.2 - Under this paragraph, and for each building type, change the heading "Preferred/Expected Building System" to "General Building System".

7. Para 3.2.3.3 (4) – Delete the following bullet in its entirety: "The Dining facility shall be normally air conditioned except that the storage and service areas may be ventilated and heated as required by code. The kitchen, dishwash, pot/pan washing shall be cooled not to exceed 84 degrees Fahrenheit. The kitchen, dishwash, pot/pan washing, service spaces and restrooms shall maintain a negative pressure, while the dining, point of sale and queuing areas shall have a positive pressure. See also requirements in Army publication Technical Bulletin TB MED 530."

8. Para 3.2.3.4(2) - Delete the following bullet in its entirety: "Plumbing systems installed in the dining facilities will comply with the requirements of UFC-4-74056-01 Design: Dining Facilities."

9. Para 3.2.3.4(2) - Delete the following bullet in its entirety: “Dining Facility exposed piping shall be kept to a minimum. Where metallic piping cannot be concealed it shall be chrome-plated. See also requirements in Army publication Technical Bulletin TB MED 530.”

10. Para 3.2.3.5(1) - Delete the following bullet in its entirety: “Fire suppression systems will be provided for grease collecting hoods in dining facilities per NFPA 96.”

11. Para. 3.2.3.6 (9- Telecommunication Systems) - Delete the following bullet in its entirety: “The Dining Facility shall include a cable television system with a minimum of two televisions ceiling or wall mounted in each dining area. Specific requirements for the cable television system are described in para. 6 of this section. Where not indicated otherwise, contractor shall provide all power, cable and mounting hardware suitable for flat panel televisions.”

12. Para. 3.2.3.6 (9- Telecommunication Systems) - Delete the following bullet in its entirety: “In addition to the requirements of section 01 10 00, paragraphs 5.0 and 6.0, the Dining facility shall be connected to the Installation wide area network system (WAN) and telephone system. Data and telephone receptacles shall be included at the offices, point of sales, headcount area, dry storage room, mechanical and electrical and telecommunications room. The facility shall have a building-wide, zoned paging/intercom system with announcement and music (plug-in) capabilities from the administrative office.”

13. Delete paragraph 3.2.4 Special Equipment Requirements and all bullets in their entirety.

14. Delete in its entirety para 3.2.5 (16).

REV 1.2 *17 January 2008*

1. Added reference for registered communication distribution designer in Paragraph 3.2.3.6(9)

2. In Paragraph 3.1.4

   Deleted“…Uniform Federal Accessibility Standards (UFAS) Federal Standard 795, and the Americans with Disability Act Accessibility Guidelines (ADDAG).”

   And inserted the following: “…ADA (Americans with Disabilities Act) and ABA (Architectural Barriers Act) Accessibility Guidelines for Buildings and Facilities (Federal Register July 23, 2004 with supplements 3/23/07).

REV 1.1 *15 August 2007*

1. Revised all references from old numbering system to Master Format 2004

REV 1.0 *15 July 2007*

1. Baseline Document.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 3 – CHILD DEVELOPMENT CENTERS (CDC)

REV 2.0 *30 June 2012*

1. Revised in its entirety to match new paragraph 3 formatting.

REV 1.22 *31 July 2011*

1. CDC (both ages) - Replace the current Paragraph 3 file with the file provided in the CDC subfolder. Added paragraph specifying an Accreditation Inspection

REV 1.21 *31 March 2011*

1. The infant option for paragraph 3.2.1.3 currently references Attachments E and F. The reference should be to Attachments B and F.

REV 1.20 *30 November 2010*

1. CDC (both ages): Updated Paragraph 3 to reflect proponent customer detail requirements for the school age facilities.

2. CDC 6-10: The Attachment H standard drawings have been updated, like Para 3 the changes reflect proponent customer detail requirements and updates from a configuration control review exercise.

REV 1.19 *31 October 2010*

1. CDC 0-5: Revised Attachment B Design Criteria For Child Development Centers. The changed revised the verbiage regarding shelving in storage rooms.

2. CDC 6-10: Revisions are a result of facility change control process and reflect revisions requested by the proponent customer (FMWRC) as well as improvements found by the facility COS team. Revisions are in Attachments E CDC for Children 6-10 Years of Age Interior Finish Schedule and Room Descriptions and H Child Development Center (CDC) for Children 6-10 Years Old Standard Plans.

REV 1.18 *30 August 2010*

1. CDC 0-5: Replace the current Attachment B ROOM BY ROOM DESCRIPTIONS file with the attached file. The changes are minor clarifications and corrections, including disallowing water coolers in the exterior play area.

2. CDC 0-5: Replace current F1, F2 and F3 drawing files. The changes were minor corrections and clarifications.

REV 1.17 *31 August 2010*

1. CDC 0-5: Replace the current Attachment B ROOM BY ROOM DESCRIPTIONS file with the attached file. The change was to correct a discrepancy with the SECURITY & MONITORING PLAN included in Attachment F; the number of cameras did not agree.

REV 1.16 30 June 2010

1. CDC (0-5): Changes include a clarification on adult toilet facilities, provision of mass notification, and communications design.

2. Revisions to Room by Room attachment were to clarify some size requirements and moved Security & Monitoring General Information from the drawings to this document.

3. Attachment F has been broken up into grouping by facility size.

REV 1.15 31 May 2010

1. CDC (0-5): Revised color schemes and room-by-room. These came about from lessons learned and customer (FMWRC) requests. The color schedules list more options and revises the reference paint brand and colors. Revisions in the room-by-room are indicated with a bar on the right side of the page. The changes are mostly clarifications including one on the use of occupancy sensors.

REV 1.14 31 July 2009

1. CDC (0-5):

   a. Attachment F: Added the Security and Monitoring Plans for the Medium and Large facilities, X-102 and X-103

   b. Paragraph 3: Corrected slight errors and omissions.

2. CDC 6-10:

   a. Paragraph 3: Corrected slight errors and omissions.

REV 1.13 31 May 2009

1. CDC (0-5):

   a. Replaced the current room by room with the file named B_0-5_room_by_room_REV050809.pdf. Revised to reflect maturation of standard design, add information that had formerly been included in Attachments J and K, and added a rendering of the small facility.

   b. Replaced the F attachment drawing sets by size with a single set that covers all configurations, also incorporates the drawings that were in Attachment G.

   c. Revised Paragraph 3 to delete Attachment K. Also revised 3.2.4.1(a) and 3.2.8.3., removed redundant information, change Attachment G to Not Used, and removed input for 6 weeks - 5 years playground size

2. CDC 6-10:

   a. Replaced the H attachment drawing sets by size with a single set that covers all configurations

   b. Replace the current Attachment E room by room file with the file named E_Room-by-Room Descriptions

c. Revised to reflect maturation of standard design and added a rendering of the large facility

d. Revised Paragraph 3 to delete Attachment K. Also revised 3.2.4.1(a) and 3.2.8.3., removed redundant information, change Attachment G to Not Used, and removed input for 6 weeks - 5 years playground size

REV 1.12 30 April 2009

1. CDC (0-5): Replace Paragraph 3 with revised file (in CDC both sizes folder). See the xls file in the CDC 0-5 folder for an explanation of playground values. Replace all of the Attachment F files with the new "F_" files. This Para 3 revision provides playground area size requirements, revises the Fire Detection and Alarm requirements, revises the Communications requirements, and adjusts Attachment G text to make them illustrative only. The new Attachment F files provide updated floor plans in compliance with the Army Standard and the proponent requirements.

2. CDC (6-10): Revised Attachment E - CDC for Children 6-10 Years Interior Finish Schedule and Room Descriptions. Also sending all of the Attachment H files as the current printout from the Wizard does not actually include all of the drawings intended. Please replace all of the existing Attachment H files for the small, medium and large (not the wing) with the ones provided.

REV 1.11 30 January 2009

1. Attachment B Room by Room underwent a general update following facility working group conference.

2. Paragraph 3.2.3.1.2 of the Par-3 document was revised to remove the preclusion of building numbers on the CDC facilities.

3. Attachment E Room by Room underwent a general update following facility working group conference.

REV 1.10 30 November 2008

1. Revised Para 3.2.9, Attachment I. The Primary and Southwest Color schemes have been updated and now apply to all age groups of the Child Development Centers

2. Revised subparagraph of 3.2.4 to clarify fire protection requirements.

3. Revised Para 3.2.8 and sub-paragraphs to clarify Telecommunication requirements

REV 1.9 31 October 2008

1. Please remove Attachment D. The references to it in Paragraph 3.2 and 3.2.9

2. Attachment K now applies to both the infant and child (the same file fits each age)

3. Added requirement to 3.2.4 to provide fire detection and sprinklers to the entire facility.

4. Revised 3.2.3.2.1 to refer to attachments to this section rather than appendices to the document

5. Child Development Center (0-5): Revised Attachment B to require insulating walls and ceiling in the Exterior Storage Room

6. Child Development Center (6-10): Attachment K now includes kitchen equipment requirements for this age group (change to Para 3 noted in 1. above)

REV 1.8 30 September 2008

1. Removed ASTM F 2372 from the 6-10 (child) facility.

2. Updated Attachment E

3. Revised title and updated Attachment H.

4. Added Attachment K Kitchen Equipment for infant facilities.

REV 1.7 29 August 2008

1. Deleted the prohibition of encasing radiant floor heating tubes in paragraph 3.1.2(f).

2. Added water temperature requirements for CDC for ages 6-10 in paragraph 3.2.5.1.

3. Clarified lead free in paragraph 3.2.5.2

REV 1.6 31 July 2008

1. Added language to 3.2.4.1 Fire Detection and Alarm to clarify requirements

2. Added clarifying language to paragraphs and subparagraphs of 3.2.7 Electrical Systems, 3.2.7.1 Interior Electrical Power, and 3.2.7.2 Interior Lighting

3. Added paragraph 3.2.8.7 to provide requirements for the Computer Lab in the CDC for ages 6-10.

REV 1.5 15 July 2008

1. updated to correct some minor errors and clarify interior electrical requirements for the ages 6-10 (child) facilities

2. Revised Attachment B

REV 1.4 30 June 2008

1. Revised Paragraph 3.2.1.2: changed speed bumps to speed humps.

2. Added following sentence to the end of the paragraph 3.2.1.2:

   "All parking should be arranged in accordance with UFC 4-010-01."

3. Deleted last sentence of first paragraph in Paragraph 3.2.1.2.1 and deleted items (a) and (b) in their entirety.

4. Deleted first two sentences of Paragraph 3.2.3.1.3 and replaced with the following:

"Provide exterior windows as described in <CDC_INFANT>Attachment B Design Criteria For Child Development Centers (For Children 6 Weeks – 5 Years)</CDC_INFANT><CDC_CHILD> Attachment E CDC for Children 6-10 Years Interior Finish Schedule and Room Descriptions</CDC_CHILD> and that are in compliance with UFC 4-010-01."

5. Added the following to end of Paragraph 3.2.3.1.3:

   "and shall be strangle-proof"

6. Deleted Paragraph 3.2.6.5 in its entirety.

7. Added following to Paragraph 3.2.6.5:

   "HVAC Systems and equipment shall meet the requirements of UFC 4-010-01. This UFC includes specific requirements for air intakes to HVAC systems and emergency air distribution shutoff for example."

8. Revised Paragraph 3.2.7 in its entirety.

9. Added following to Paragraph 3.2.7.1:

   "When facility electrical design includes a 480/277V power distribution system, mechanical systems and lighting systems shall generally be fed from the available 480/277V power distribution system."

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 1.3 *30 April 2008*

1. Deleted the following sentence from Paragraph 3.2.1.2.1:

   "However, provide at least 10 parking spaces per 100 square foot of the building."

2. Added paragraph title 3.2.5.1 Water Temperatures

3. Added following sentence to end of 3.2.5.1 for facility for children ages 6 year old – 10 year old:

   "Facility requirements comply with water temperatures specified in the criteria listed in this paragraph."

4. Added new 3.2.5.2 Free of Lead paragraph.

REV 1.2 *28 March 2008*

1. This revision contains minor changes indicated in RED

REV 1.1 *10 January 2008*

1. Replaced Paragraph 3.2.8 TELECOMMUNICATIONS in its entirety

REV 1.0 *01 September 2007*

1. Baseline Document.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 3 – ARMY COMMUNITY SERVICE CENTER (ACSC)

REV 2.0 *30 June 2012*

1. Revised in its entirety to match new paragraph 3 formatting.

REV 1.3 *31 October 2008*

1. The drawing files are unchanged except for the addition of a "Section 01 10 00, Attachment B" header to each.

2. Revised the cover of Attachment A to say Attachment A rather than Appendix H.

REV 1.2 *15 March 2008*

1. In Paragraph 3.2 revised Attachment H to Attachment A and added reference to Attachment B Floor Plans.

2. Added following sentence to the beginning of Paragraph 3.2.7

   "Telecommunications design must be performed and stamped by a Registered Communications Distribution Designer (RCDD) with 2 yrs related experience or person with 5 yrs related experience. The information systems designer must prepare the test plan, and witness and certify the testing of telecommunications cabling."

3. Revised Paragraph 3.2.8 to read ATTACHMENT A and B

4. In paragraph 3.2.8 revised reference to Attachment H to A and then added reference to Attachment B Floor Plans.

REV 1.1 *10 January 2008*

1. Replaced Paragraph 3.2.7 TELECOMMUNICATIONS in its entirety

REV 1.0 *10 September 2007*

1. Baseline Document.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 3 – YOUTH CENTER

REV 2.0 *30 June 2012*

1. Revised in its entirety to match new paragraph 3 formatting.

REV 1.9 *30 September 2010*

1. Revised Attachements A, B and C. Plans have been updated to add millwork drawings (A-701 and A-702), to make corrections to A-401, and to add VSS design drawings. Table of Contents in Section A has been updated.

REV 1.8 *31 August 2010*

1. Revised Attachements A and C. Plans and narratives have been updated to incorporate changes made to the Youth Center Standard Design, including clarification of 1-hour fire rated walls, and change in verbiage on motion sensor lights.

REV 1.7 *31 July 2009*

1. Replace the files for Attachments A, B and C with the files provided. Plans and narratives have been updated to incorporate changes made to the Youth Center Standard Design. Since the initial plan was provided significant changes have been made to Snack Bar/Culinary Arts layout. Site plans have been mirrored to match orientation of floor plan on sheet.

REV 1.6 *31 May 2009*

1. Revised as a result of comments generated during project execution. Added cover sheet to the color scheme attachments (D). Revised Attachment B room by room description and Attachment C drawings; these revisions are to comply with proponent activity requirements.

REV 1.5 *30 April 2009*

1. Revised the Fire Detection and Alarm paragraph and the Communications paragraph.

2. Also broke up the Attachment D color scheme file (replace current single Attachment D file) into a separate file for warm and and separate file for cool so that the automation will be able to include only the applicable scheme in the RFP.

REV 1.4 *30 November 2008*

1. Updated the Attachment D Drawings

REV 1.3 *30 September 2008*

1. Updated the Attachment C Drawings

REV 1.2 *29 August 2008*

1. Updated the Attachment D Color Schemes

REV 1.1 *15 June 2008*

1. Revised Paragraph 3.1.4.2(c) Interior Finishes as follows:

   “Colors shall conform to the <COOL>cool</COOL><WARM>warm</WARM< color scheme specified in Attachment D. Manufacturers' names and color identification

are used for the purpose of color identification only. Named products are acceptable for use only if they conform to specified requirements. Products of other manufacturers are acceptable if the colors approximate colors indicated and the product conforms to specified requirements."

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

2. Added Attachment D Color Schemes

REV 1.0 *15 March 2008*

1. Baseline Document.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 3 – GENERAL INSTRUCTION BUILDING

REV 1.6 *31 October 2010*

1. Removed paragraph concerning Sustainable Design and Development (already in the Wizard paragraph 5)

2. Removed paragraph concerning Storm management Systems (already in the Wizard paragraph 5)

3. Removed paragraph concerning Radon testing (already in the Wizard paragraph 5)

4. Clarification on the use of the GIB criteria in the RFP as establishing the minimum requirement

REV 1.5 *31 July 2010*

1. Replaced DOIM with NEC

2. Modified paragraph 3.1.2 to allow flexibility to include or not include a conceptual floor plan.

3. Modified paragraph 3.3.8 allow option to not include Dumpsters enclosure in the project

4. Modified paragraph 3.3.9 to clarify parking requirement

5. Modified paragraph 3.4.1 to clarify that finishes in paragraph 6 that are superior to those in the GIB standard shall govern.

REV 1.4 *15 September 2008*

1. Deleted last sentence of 3.1.1

2. Capitalized provide in Paragraphs 3.3.5 and 3.3.10.

REV 1.3 *30 June 2008*

1. Removed all language referring to Attachment A to read: Refer to Appendix "GIB and ACES Standard Design Criteria".

REV 1.2 *28 March 2008*

1. Changed all references to “Attachment A” to “Appendix”

REV 1.1 *25 January 2008*

1. Revised definition of “Larger Facilities” in 3.1.3.1
2. Revised Paragraph 3.1.3.2 as follows:

   Para 1-9 to Para 1.9.2 and changed “section” to “paragraph”

   Changed “section” to “paragraph” in Para 3-1.10 reference.

   Revised Para 3-3 in its entirety.
3. Revised Paragraph 3.2 to read “Facility Specific” in lieu of “Applicable”
4. Added “in addition to the chapter 4.0 APPLICABLE CRITERIA” to paragraph 3.2
5. Revised Table 3.2 to read “Facility Specific” in lieu of “Applicable”
6. Revised Reference to GENERAL INSTRUCTION BUILDING attachment.
7. Removed “larger than” from 3.3.7
8. Added “and chapter 6” to 3.4.1

REV 1.0 *09 October 2007*

1. Baseline Document. This is used for the following facility types:
   a. General Instruction Building (GIB)
   b. Army Continuing Education System Facility (ACES)
   c. Classroom XXI

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 3 – CRIMINAL INVESTIGATION DIVISION COMMAND (CIDC)

REV 2.0 *30 October 2012*

1. Revised in its entirety to match new paragraph 3 formatting and to coinside with the revised Army Standard.

Summary of Revisions

REV 1.0 *09 October 2007*

1. Baseline Document.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 3 – CHAPEL

REV 3.2 *31 January 2013*

1. Paragraph 3.1.1.(A)(1) Revised text to further define Facility Goals for The Soldier Community.

2. Paragraph 3.1.3. & 3.1.3.(A) Revised text to further define Accessibility Requirments.

3. Paragraph 3.1.4.(A) & 3.1.4.(D) Revised Appendix reference.

4. Paragraph 3.1.5. Revised CoS address.

5. Paragraph 3.2.1.(A) Revised text to further define Functional Spaces.

6. Paragraph 3.2.1.(B)(1), (2), (3), (4), (5), (6), (7), (8), (9), (10), (11), (15), (16), & (17). Revised text to further define Primary Spaces.

7. Paragraph 3.2.1.(C)(1), (2), (9), & (10). Revised text to further define Support Spaces.

8. Paragraph 3.3.(A) Revised text to further define Site Functional Requirments.

9. Paragraph 3.3.(C)(1). & (3), Revised text to further define Parking.

10. Paragraph 3.5.(B). & (C). Revised text to further define General Architecture Requirements.

11. Paragraph 3.5.(D)(4) & (22). Revised text to further define General Architecture Requirements.

12. Paragraph 3.5.(F)(1). Revised text to further define Exterior Specialties.

13. Paragraph 3.5.1.(A)(1). Revised text to further define General Finishes and Interior Specialties.

14. Paragraph 3.5.1(B)(2), (3), (4), (18), (21), & ((27)(f)). Revised text to further define Worship Center Finishes.

15. Paragraph 3.5.1(C)(2), (4), (5), & (6). Revised text to further define Interior Specialties.

16. Paragraph 3.5.1.(C)(6). Added new tags to omit Activity Center from IET Chapel.

17. Paragraph 3.6.(A)(2), Revised text to further define Structural Requirements.

18. Paragraph 3.6.(B)(4), Revised text to further define Structural Requirements.

19. Paragraph 3.8.(A), Revised text to further define Plumbing Requirements.

20. Paragraph 3.9.(A)(1), Revised text to further define A/V System.

21. Paragraph 3.9.(A)(1). Added new tags to omit Activity Center from IET Chapel.

22. Paragraph 3.9.(A)(2)(b), Revised text to further define A/V System.

23. Paragraph 3.9.(A)(2)(b). Added new tags to omit Activity Center from IET Chapel.

24. Paragraph 3.10.(B)(3), Revised text to further define Lighting Requirements.

25. Paragraph 3.10.(C)(2). Added new tags to omit Activity Center from IET Chapel.

26. Paragraph 3.11.(E). Added new tags to omit Activity Center from IET Chapel.

27. Paragraph 3.12.(A)(8), Revised text to further define Energy Conservation Requirements.

28. Paragraph 3.13.(B)(2), Revised text to further define Fire Protection Requirements.

29. Paragraph 3.19.1.(C), Revised text to further define Furnishings.

30. Paragraph 3.19.1.(C)(1), (2), (3), (5), (6), (7), Revised text to further define Furnishings.

31. Paragraph 3.19.1.(D)(1), Revised text to further define Furnishings.

32. Paragraph 3.19.1.(D)(6). Added new tags to omit Activity Center from IET Chapel.

33. Paragraph 3.19.2.(A)(4), (8), (12), (13), (18), & (27), Revised text to further define Equipment.

34. Paragraph 3.19.2.(B). Revised text to further define Ecclesiastical Equipment.

REV 3.1 *31 August 2012*

1. Revised in its entirety to match new paragraph 3 formatting.

2. Paragraph 3. Added to entire paragrph, references to (Large, Medium , and Small Basic Chapel), (Large, Medium, and Small Enhanced Chapel), and IEC (IET Type) Facility.

3. Paragraph 3.1.2.(B). Deleted text from Paragraph 3.3(A). and added this text to Paragraph 3.1.2.(B).

4. Paragraph 3.5.1.(B)(13). Revised to text, information to further define room finishes for Stroage/Flex Sapce.

5. Paragraph 3.6.(A). Added to text, information to further define structural features.

6. Paragraph 3.10.(B). Revised text to further define lighting requirements.

7. Paragraph 3.10.(C). Revised text to further define power requirements.

8. Paragrpah 3.11.(D). Added to text, information to further define HVAC requirements.

9. Paragraph 3.13.(B)(10). Revised text to further define fire extinguisher requirements.

10. Paragraph 3.19.2.(A)(28). Added to text, information to further define Child check-In system and Cart.

REV 3.0 *30 June 2012*

1. Revised to new paragraph 3 formating..

REV 2.0 *28 February 2010*

1. **Paragraph 3.1.** Added to text to further define FF&E requirements.

2. **Paragraph 3.1.2.1.** Added text to further define casework and other interior features.

3. **Paragraph 3.2.1.1.** Added to text to further define mechanical equipment support features.

4. **Paragraph 3.2.1.3.** Added to text to correct the definition area computations.\

5. **Paragraph 3.2.1.4.** Added to text to correct the definition area computations and removed the previous Room and Area Summary Tables for each size of facility.

6. **Paragraph 3.2.1.5.** Added to text to further define the treatment of some specific spaces.

7. **Paragraph 3.2.1.7.1** Added to text to further define some finish and feature requirements.

8. **Paragraph 3.2.1.7.2** Added to text to further define an entry door requirement.

9. **Paragraph 3.2.1.7.3** Added to text to further define some finish and feature requirements.

10. **Paragraph 3.2.1.7.4** Added to text to further define an option requirement.

11. **Paragraph 3.2.1.7.5** Added to text to further define a storage requirement.

12. **Paragraph 3.2.1.7.7** Added to text to further define some appliance and feature requirements.

13. **Paragraph 3.2.1.7.8** Added to text to further define some appliance requirements.

14. **Paragraph 3.2.1.7.9** Added to text to further define a work-surface/storage feature's requirements.

15. **Paragraph 3.2.1.7.11** Added to text to further define some finish and feature requirements.

16. **Paragraph 3.2.1.7.13** Added to text to further define some feature requirements.

17. **Paragraph 3.2.1.7.15** Added to text to change a dimension requirement.

18. **Paragraph 3.2.1.7.16** Changed sub-title to better define where the requirements are to be applied.

19. **Paragraph 3.2.1.7.17** Changed sub-title to better define where the requirements are to be applied.

20. **Paragraph 3.2.1.7.21** Added to text to further define a door hardware requirement.

21. **Paragraph 3.2.3** Changed some required references.

22. **Paragraph 3.2.4.1** Added to text to add or further define some feature requirements.

23. **Paragraph 3.2.4.2** Added paragraph for new Art Glass requirements.

24. **Paragraph 3.2.4.2.1** Reorganized paragraph and added to text to further define some finish and feature requirements and subtract some furniture requirements.

25. **Paragraph 3.2.4.2.1.2 through entire Section** Removed all existing text related to Interior Design features and FF&E Items and substituted new text and paragraphs. Removed the existing Chapel Furnishing and Equipment Tables.

26. **Paragraph 3.2.8 through the end of 01 10 00**: Removed all existing text related to Fire Protection, Mechanical, Electrical, etc. and substituted new text and paragraphs.

REV 1.0 *15 November 2007*

1. Baseline Document.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 3 – RELIGIOUS EDUCATION FACILITY

REV 1.1 *30 August 2012*

1. **Paragraph 3.1.3.** Revised text to further define Accessibility Requirements.

2. **Paragraph 3.1.4.(B).** Revised text to further define Gross Area.

3. **Paragraph 3.2.1.** Revised text to further define Functional Spaces.

4. **Paragraph 3.3.** Revised text to further define Site Functional Requirmemnts.

5. **Paragraph 3.3.(C)(1).** Revised text to further define Parking requirmemnts.

6. **Paragraph 3.3.(D)(1)&(2).** Revised text to further define Access Drives and Lanes..

7. **Paragraph 3.4.(D).** Revised text to further define Landscaping/Hardscaping.

8. **Paragraph 3.5.(A).** Revised text to further define General (Architectural) Requirmemnts.

9. **Paragraph 3.5.(D)(6),(8), & (9).** Revised text to further define Openings.

10. **Paragraph 3.5.(E),(F), & (G) .** Revised text to further define Spatial Integration, Exterior Specialties, and Acoustical Requirements.

11. **Paragraph 3.5.1.(2).** Revised text to further define General (Finishes and Interior Specialties) Requirmemnts.

12. **Paragraph 3.5.1.(C)(1)(b)&(c)** Revised text to further define Toilet Room Items.

13. **Paragraph 3.5.1(C)(3).** Revised text to further define Window Treatments.

14. **Paragraph 3.5.1(C)(4).** Revised text to further define Marker Boards.

15. **Paragraph 3.5.1(C)(5).** Revised text to further define Tackboards.

16. **Paragraph 3.5.1(C)(6).** Revised text to further define Entry Mats.

17. **Paragraph 3.6.(A).** Revised text to further define Generl (Structural) Requirments.

18. **Paragraph 3.9.(B)(2).** Revised text to further define Telephone and Data.

19. **Paragraph 3.9.(B)(4).** Revised text to further define Wireless Internet.

20. **Paragraph 3.10.(B)(1)&(2)** Revised text to further define Lighting Requirements.

21. **Paragraph 3.10.(C)(4)&(5)** Revised text to further define Power Requirements for Kitchen and Child Dominant Spaces.

22. **Paragraph 3.11.(C)&(D).** Revised text to further define HVAC Systems for Mechanical Systems Selection and Concealed Elements.

23. **Paragraph 3.13.(B)(4),(5)&(10).** Revised text to further define Fire Supression System for Fire Department Connection, Fire Pump, and Fire Extinguishers.

REV 1.0 *30 June 2012*

1. Baseline Document.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 3 – CHAPLAIN FAMILY LIFE CENTER FACILITY

REV 1.0 *30 June 2012*

1. Baseline Document.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 3 – ADVANCED INDIVIDUAL TRAINING COMPLEX

REV 3.0 30 April 2012

1. Revised in its entirety to match new paragraph 3 formatting.

REV 1.13 15 December 2011

1. Revised Paragraph 3.6.1 in its entirety.
2. Revised Paragraph 3.6.2
3. Revised Paragraph 3.7.1.1
4. Revised Paragraph 3.7.1.2
5. Revised Paragraph 3.7.1.4
6. Revised Paragraph 3.7.2.2
7. Revised Paragraph 3.7.2.4

REV 1.12 31 March 2011

1. Paragraph 3.2.2.1.1.(a)(i) revised to read “three single person beds, each”
2. Paragraph 3.2.2.1.1.(a)(ii) revised to read “three free-standing nightstands, each”
3. Paragraph 3.2.2.1.1.(a)(iii) revised to read “three computer desks, each”
4. Paragraph 3.2.2.1.1.(a)(iv) revised to read “three ergonomic task chairs, each”
5. Paragraph 3.2.2.1.1.(b) revised to read “at an elevation of 6’-6” A.F.F.”
6. Paragraph 3.2.2.1.2.(f) revised from “Drill Instructor” to “Platoon Sergeant” and to read “48 NSF, each”
7. Paragraph 3.2.2.1.2.(h) revised to read “in an adjacent corridor immediately adjacent to the,” add “and one ice machine (with plumbing and floor drain),” add “First Floor,” and revise to read “typical : One (1) three seat cushioned sofa 72in. to 90in. wide x 32in. to 35in. deep and Two (2) two-seat sofa 50in. to 60in. wide x 32in. to 35in. deep.”
8. Paragraph 3.2.2.1.2.(i) revised from “58” to “57,” revised from “76” to “75,” deleted “However where this is not feasible, no floor shall provide less than 14 washers and 20 dryers (approx. 25%), with the remainder of the total required units to be provided on the remaining floors,” and added “and requested by the installation.”
9. Paragraph 3.2.2.1.3.(c) revised to read “48 NSF, each”
10. Paragraph 3.2.2.1.3.(m) revised from “of” to “and”
11. Paragraph 3.6.3 revised from “ANSI/ASHRAE/IESNA 90.1-2004" to read "ANSI/ASHRAE/IESNA 90.1-2007"
12. Revised Paragraph 3.8.3.2. to add “and bedrooms”

13. Revised Paragraph 3.8.7.1 to add “computer learning centers”

REV 1.11 31 January 2011

1. Para 3.6.3.: Revised HVAC criteria for Air Conditioner in Energy Conservation Features Tables to read

   “Energy Efficient Heating and Cooling System with Associated Heating and Reheat Coil DOAS with 14 SEER DX coil (3.52 COP), Hot Gas Reheat and Auxiliary Heat/ Reheat Coil”

2. Modified maximum plumbing fixture flow rates in paragraph 3.7.1.2:

   Water closets: Flush valve type providing 1.28 gallons per flush or dual flush with an equivalent average flush volume of 1.28 gallons per flush. Water closets shall conform to Maximum Performance Testing (MaP) requirements as per most current testing report by Veritec and Koeller found at http://www.cuwcc.org/MaPTesting.aspx. The website includes the test report, testing protocol, and a list of tested water closet/flush valve combinations. Water closets shall be able to flush a minimum 800 gram test sample with a single flush.

3. Changed Peak Occupancy in the end of AIT B/COF schedule in 3.6.4 to 3 occ/unit.

4. Added the following to the end of paragraph 3.7.2.1:

   All sleeping unit HVAC units shall have piping and duct connections that allow quick and easy removal and replacement of individual units.

5. Added the following paragraph 3.8.1.8:

   Electrical service shall be provided for electric dryers regardless of whether or not electric dryers are to be used.

REV 1.10 30 November 2010

1. Modified paragraph 3.2.2.1.3 (l) to read:

   3.2.2.1.3 (l) Company Supply: Provide storage space for company supplies and equipment, weapons, and consumable supplies. Shipping and receiving functions are performed from company supply area. Provide a pair of exterior doors with removable stanchion in company supply. A built-in lockable issue counter with secured access between this room and the corridor. Issue counter opening shall be 36 inches wide and 42 inches high minimum.

2. Added paragraph 3.8.1.7 to read:

   3.8.1.7 In each B/COF, washers and dryers shall be considered to be continuous loads and all branch circuits, feeders and distribution equipment shall be sized accordingly. Each appliance shall be provided its own dedicated branch circuit. The use of demand factors at any point in the distribution system for sizing conductors and distribution equipment for these appliances is prohibited.

REV 1.9 30 September 2010

1. Modified paragraph 3.3.2.2. to read

"The PT pit shall be constructed of a durable, low maintenance surface, such as a rubber mulch.. An acceptable voluntary betterment is artificial "field turf" consisting of 2 inch extruded monofilament synthetic turf surface with a sand and rubber infill or a similar application."

2. Modified paragraph 3.7.1.2. to read

   "Maximum plumbing fixture flow rates shall be as follows:

   Water closets: 1.28 gallons per flush (or dual flush type with an equivalent average flush volume)

   Showers: 1.5 gpm

   Bathroom sinks: 0.5 gpm

   Kitchen sinks: 1.5 gpm

   Janitor sinks: 1.5 gpm"

3. Modified paragraph 3.4.2

4. Modified paragraph 3.5.1. to read

   Live Loads: Design live loads shall be per the IBC but not less than the following minimums.

   Note that the minimum live loads indicated do not include partition loads. Partition live loads of 15 pounds per square foot (psf) shall be added to all areas with a live load of 80 psf or less.

5. Modified paragraph 3.6.4. tables as follows

   Replaced term "Apartment Unit" with term "Sleeping Unit" in all tables. Deleted third table (with references to refrigerator).

REV 1.8 *30 June 2010*

1. Modified section 3.6. title to read "ENERGY CONSERVATION"

2. Modified paragraph 3.6.1. title to read "Energy Performance"

3. Modified paragraph 3.6.1. to read

   The building, including the building envelope, HVAC systems, service water heating, power, and lighting systems shall be designed to achieve an energy consumption that is at least 40% below the consumption of a baseline building meeting the minimum requirements of ANSI/ASHRAE/IESNA Standard 90.1-2007 (see paragraph 5.9 Energy Conservation)

   and added the following to the end of the paragraph:

   In addition, the building shall be designed and constructed to provide 30% of domestic hot water by use of solar hot water system where indicated as life cycle cost effective.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

4. Deleted paragraph 3.6.2. “Target Energy Consumption Budget”

5. Changed paragraph number 3.6.3 to 3.6.2 and modified new paragraph 3.6.2 title to read “Required Energy Conservation Features”

6. Modified paragraph 3.6.2 to read:

   All items listed in the required energy conservation features table shall be provided as a minimum. Additional energy conservation features may be required to meet the above energy performance. The contractor is responsible for determining and providing additional energy conservation features to meet the energy performance requirement

7. Added paragraph 3.6.3 “Compliance Documentation”

   The required energy conservation features shown in the following tables contribute to the achievement of the above energy performance and are life cycle cost effective for an AIT BCOF facility. Use of the required energy conservation features does not eliminate the requirement for energy analysis calculations documenting compliance. The D-B contractor must document compliance with the above energy performance utilizing the methodology described in ASHRAE 90.1, Appendix G as discussed in section 01 33 16 Design After Award.

8. Changed paragraph 3.6.3, Zone 1A Table title to read: Climate Zone 1A, Energy Conservation Features Table

9. Changed paragraph 3.6.3, Zone 2A Table title to read: Climate Zone 2A, Energy Conservation Features Table

10. Changed paragraph 3.6.3, Zone 2B Table title to read: Climate Zone 2B, Energy Conservation Features Table

11. Changed paragraph 3.6.3, Zone 3A Table title to read: Climate Zone 3A, Energy Conservation Features Table

12. Changed paragraph 3.6.3, Zone 3B Table title to read: Climate Zone 3B, Energy Conservation Features Table

13. Changed paragraph 3.6.3, Zone 3C Table title to read: Climate Zone 3C, Energy Conservation Features Table

14. Changed paragraph 3.6.3, Zone 4A Table title to read: Climate Zone 4A, Energy Conservation Features Table

15. Changed paragraph 3.6.3, Zone 4B Table title to read: Climate Zone 4B, Energy Conservation Features Table

16. Changed paragraph 3.6.3, Zone 4C Table title to read: Climate Zone 4C, Energy Conservation Features Table

17. Changed paragraph 3.6.3, Zone 5A Table title to read: Climate Zone 5A, Energy Conservation Features Table

18. Changed paragraph 3.6.3, Zone 5B Table title to read: Climate Zone 5B, Energy Conservation Features Table

19. Changed paragraph 3.6.3, Zone 6A Table title to read: Climate Zone 6A, Energy Conservation Features Table

20. Changed paragraph 3.6.3, Zone 6B Table title to read: Climate Zone 6B, Energy Conservation Features Table

21. Changed paragraph 3.6.3, Zone 7A Table title to read: Climate Zone 7A, Energy Conservation Features Table

22. Changed paragraph 3.6.3, Zone 8A Table title to read: Climate Zone 8A, Energy Conservation Features Table

23. Changed paragraph 3.6.3, notes after table 8A title to read “Notes for Energy Conservation Features Table”:

24. Changed paragraph 3.6.3, note 6 to read:

    All design features of this EPACT 2005 & EISA 2007 compliant B/COF not described above will be in accordance with the minimum requirements of ANSI/ASHRAE/IESNA Standard 90.1-2007. including conformance with paragraph 5.9.2, which requires purchase of Energy Star and FEMP designated products.

25. Deleted paragraph 3.6.4 “Compliance Path”

26. Added paragraph 3.6.4 “Schedules”

    The following facility schedules must be used in all facility energy simulations for purposes of documenting compliance with energy performance requirement.

REV 1.7 *31 May 2010*

1. 3.2.1 Revised accessibility requirements

2. 3.2.2.1.1 (b) Bedroom requirements revised.

3. 3.2.2.1.2 (a) Added requirements for furniture in lobby.

4. 3.2.2.1.2 (f) Added requirements for furniture in Drill Instructor Office.

5. 3.2.2.1.2 (g) Added requirements for furniture in Computer Learning Center.

6. 3.2.2.1.2 (h) Added requirements for furniture in Day Room.

7. 3.2.2.1.2 (i) Corrected paragraph number.

8. 3.2.2.1.2 (j) Corrected paragraph number. Corrected language to require two luggage storage areas per floor.

9. 3.2.2.1.2 (k) Corrected paragraph number. Deleted requirement for General Storage on 2nd and 3rd floors.

10. 3.2.2.1.2 (l) Corrected paragraph number.

11. 3.2.2.1.2 (m) Corrected paragraph number.

12. 3.2.2.1.2 (n) Corrected paragraph number and revised to require boot washed at main entrances not “personnel” entrances.

13. 3.2.2.1.3 (a) Added furniture requirements for Company Commander.

14. 3.2.2.1.3 (b) Added furniture requirements for Executive Officer.

15. 3.2.2.1.3 (c) Added furniture requirements for Waiting Area.

16. 3.2.2.1.3 (d) Added furniture requirements for Operations Sergeant

17. 3.2.2.1.3 (e) Added furniture requirements for 1st Sergeant

18. 3.2.2.1.3 (l) Revised exterior door requirements for Company Supply.

19. 3.2.2.1.4 Revised B/COF Space Allocation Table to match Army Standard.

20. 3.2.3.1 (a) Corrected paragraph number.

21. 3.2.3.1 (b) Corrected paragraph number.

22. 3.2.3.1 (c) Corrected paragraph number.

23. 3.2.3.1 (d) Corrected paragraph number.

24. 3.2.3.1 (e) Corrected paragraph number.

25. 3.2.3.1 (f) Corrected paragraph number.

26. 3.2.3.1 (g) Corrected paragraph number.

27. 3.2.3.1 (h) Corrected paragraph number.

28. 3.2.3.1 (i) Corrected paragraph number.

29. 3.2.3.1 (j) Corrected paragraph number.

30. 3.2.3.1 (k) Corrected paragraph number.

31. 3.2.3.1 (l) Corrected paragraph number.

32. 3.2.3.1 (m) Corrected paragraph number.

33. 3.2.3.1 (n) Corrected paragraph number.

34. 3.2.3.1 (o) Corrected paragraph number.

35. 3.2.3.1 (p) Corrected paragraph number.

36. 3.2.3.1 (q) Corrected paragraph number.

37. 3.2.3.1 (r) Corrected paragraph number.

38. 3.2.3.1 (s) Corrected paragraph number.
39. 3.2.3.1 (t) Corrected paragraph number.
40. 3.2.3.1 (u) Corrected paragraph number.
41. 3.2.3.1 (v) Corrected paragraph number.
42. 3.2.3.1 (w) Corrected paragraph number.
43. 3.2.3.1 (x) Corrected paragraph number.
44. 3.2.3.1 (y) Corrected paragraph number.
45. 3.2.3.1 (z) Corrected paragraph number.
46. 3.2.3.1 (aa) Corrected paragraph number.
47. 3.2.3.1 (bb) Corrected paragraph number.
48. 3.2.3.1 (cc) Corrected paragraph number.
49. 3.2.3.1 (dd) Corrected paragraph number.
50. 3.2.3.2 Revised BNHQ Space Allocation Table to match Army Standard.
51. 3.2.4.2 Revised BDEHQ Space Allocation Table to match Army Standard.
52. 3.3.5 Distances. Deleted paragraph and table regarding Building Hierarchy and
53. 3.4.3.5 Doors." Changed "Exterior Non-entrance Doors" to read "Other Exterior
54. 3.4.4.7 Revised to include toilet accessories list.
55. 3.4.4.8 Deleted toilet accessories list.
56. 3.4.5.2 (d) Revised Wall gypsum requirements.
57. 3.4.5.2 (e) Revised Ceiling gypsum requirements.
58. 3.4.5.3 Revised B/COF Interior Finish Chart.
59. 3.4.5.4 Revised BNHQ Interior Finish Chart.
60. 3.4.5.9 Revised BNHQ Furniture Chart.
61. 3.6.1 Removed cited date from ASHRAE Standard 90.1.
62. 3.6.2 Deleted sentence regarding Prescriptive Technology Solution Set.
63. 3.6.3 Revised "achieves" to "contributes to the achievement of"
64. 3.6.3 Revised Prescriptive Technology Solution Tables.

65. 3.7.1.2 Revised flow rate requirements for domestic hot water piping.

66. 3.8.1.3 Added location details for duplex receptacles.

67. 3.8.1.5 Deleted amperage from duplex receptacles.

68. 3.8.1.6 Added requirement for quad receptacle at CQ station.

69. 3.8.2 Revised reference for grounding from UFC 3-580-01 to I3A.

70. 3.8.3 Revised locations for interior lighting controls and requirements for electronic ballasts.

71. 3.8.3.1 Added requirement for vandal resistant fixtures.

72. 3.8.4.3 Deleted equipment rack height. Renumbered subsequent paragraphs.

73. 3.8.4.4. Deleted cable tray. Renumbered subsequent paragraphs.

74. 3.8.4.5 Deleted service riser conduits. Renumbered subsequent paragraphs.

75. 3.8.5 Changed Video Teleconferencing paragraph to include subparagraphs.

76. 3.8.5.1 Added subparagraph requiring dual fiber optic & modular outlets in multi-purpose space.

77. 3.8.5.2 Added subparagraph requiring dual fiber optic & modular outlets in classrooms and conference rooms.

78. 3.8.5.3 Added subparagraph requiring dual fiber optic & modular outlets in conference room.

79. 3.8.6.1 Added requirement for pull wire and outlet boxes.

80. 3.8.6.2 Revised requirement for IDS at SIPRNET room.

81. 3.8.7 Revised reference for CATV from UFC 3-580-01 to I3A.

82. 3.8.7.1 Revised location requirements for CATV.

83. 3.8.7.2 Revised location requirements for CATV.

84. 3.8.7.3 Revised location requirements for CATV.

85. 3.8.8 Corrected paragraph citation to SIPRNET Integration Guide.

86. 3.8.11 Added Paragraph for Audio/Visual System

87. 3.8.11.1 Added subparagraph to require conduit for ceiling mounted projectors.

88. 3.8.11.2 Added subparagraph to require conduit for ceiling mounted projectors.

89. 3.9.1 Deleted paragraph requiring addressable alarm at each building. Renumbered subsequent paragraphs.

90. 3.9.2 Revised requirement for design by professional Fire Protection Engineer. Renumbered subsequent paragraphs.

91. 3.9.3 Corrected paragraph number.

92. 3.10 Deleted paragraph regarding Government Furnished BIM Package.

93. Appendix J Corrected drawings and modified formatting to clarify additional information as Attachments.

REV 1.6 30 September 2009

1. 3.2.1 Revised accessibility requirements

2. 3.4.3.5 Changed term “Non-Entrance Doors” to “Other Exterior Doors”

3. 3.2.2.1.2 (k) Deleted general storage

4. 3.2.2.1.2 (j) Changed luggage storage paragraph

5. 3.2.2.1.2 (m) Changed locations of boot washes

6. 3.4.5.8 B/COF Furniture Chart replaced in whole.

7. 3.4.5.9 BNHQ Furniture Chart replaced in whole.

8. 3.4.5.10 BDEHQ Furniture Chart replaced in whole.

9. 3.6 Replaced in whole.

10. 3.7.1.1 Replaced in whole.

11. 3.7.2.1 Replaced in whole.

12. 3.7.2.2 Replaced in whole.

13. Appendix J Drawings relocated from Paragraph 3 – Attachment A to App. J

    a. Drawing A101 Modified

    b. Drawing A102 Modified

    c. Drawing A103 Modified

REV 1.5 31 July 2009

1. 3.2.1.1 - Added elevation for shower head.

2. 3.4.3.2 – adjusted roof requirements.

3. 3.4.5.3 – adjusted bcof minimum interior finishes table

4. 3.6 - Inserted 3.6 Compliance with the energy policy act of 2005. Numbering after 3.6 has been adjusted. Tables have been added

5. 3.7.2.2 adjusted mechanical requirements for sleeping units

6. 3.8.1.5 changed “120 V” to “125 V”

REV 1.4 *30 April 2009*

1. Removed underlining of heading of par. 3.9 (regarding BIM) underlined?

2. Updated floor plans in Attachment A

3. Paragraph 3.2.2.1.3 (n) added sentence All fitness equipment is GFGI.

4. Paragraph 3.2.2.1.3 (o) added sentence “Provide cabling/outlets for 3 telephones.”

REV 1.3 *27 February 2009*

1. 3.7.1 – Added the following sentence at the end of the paragraph.

   The following shall also be provided.

2. 3.7.1.1 **–** Revised the following paragraph to read as follows:

   Provide 125-volt duplex receptacles per NFPA 70, in conjunction with the proposed equipment and furniture layouts, and as per other stated requirements elsewhere in the RFP.

3. 3.7.1.2 - Deleted paragraph.

4. 3.7.1.3 - Renumbered paragraph to 3.7.1.2 and added “125-volt” in front of “duplex”.

5. 3.7.1.4 - Renumbered paragraph to 3.7.1.3 and revised paragraph to read as follows:

   For housekeeping purposes provide a minimum of one 125-volt duplex receptacle per corridor and a minimum of one 125-volt duplex receptacle in the lobby. No point along bottom of corridor or lobby walls shall be more than 25 feet from a receptacle.

6. 3.7.1.5 - Renumbered paragraph to 3.7.1.4 and revised paragraph to read as follows:

   Provide 125-volt duplex receptacles mounted adjacent to lavatories. Provide a minimum of one for every two adjacent lavatories. Each single lavatory shall also be provided a receptacle.

7. 3.7.1.6 - Deleted paragraph.

8. 3.7.1.7 - Renumbered paragraph to 3.7.1.5 and revised paragraph to read as follows:

Provide a minimum of two 125-volt duplex receptacles in each mechanical room in addition to NFPA 70 requirements. In addition, provide a minimum of one 125-volt duplex receptacle in each electrical room.

9. 3.7.1.8 - Deleted paragraph.

10. 3.7.1.9 - Deleted paragraph.

11. 3.7.1.10 – Deleted paragraph.

12. 3.7.2 – Changed “the I3A Technical Guide” to “UFC 3-580-01 Telecommunications Bldg Cabling Systems Planning/Design”.

13. 3.7.3 – Changed “13” to “12” and added the following sentenced to the end of the paragraph:

    Provided lighting levels shall be within +/- 10% of required lighting levels.

14. 3.7.3.3 – Revised paragraph to read as follows:

    Lobbies in B/COF shall be illuminated to a level of 10 foot-candles. CQ station within the first floor lobby shall be illuminated to a level of 30 foot-candles.

15. 3.7.3.4 – Deleted paragraph.

16. 3.7.3.5 – Renumbered paragraph to 3.7.3.4.

17. 3.7.3.6 – Renumbered paragraph to 3.7.3.5.

18. 3.7.3.7 – Renumbered paragraph to 3.7.3.6.

19. 3.7.4 – Revised paragraph to read as follows:

    Telecommunication outlets shall be provided per the applicable criteria based on functional purpose of the space within the building and in accordance with other provisions of this RFP.

20. 3.7.4.3 – Deleted paragraph.

21. 3.7.4.4 – Deleted paragraph.

22. 3.7.4.5 – Renumbered paragraph to 3.7.4.3 and deleted second sentence.

23. 3.7.4.6 – Renumbered paragraph to 3.7.4.4 and revised paragraph to read as follows:

    A cable tray shall be installed around the entire perimeter of all telecommunications rooms.

24. 3.7.4.7 – Deleted paragraph.

25. 3.7.4.8 – Deleted paragraph.

26. 3.7.4.8 – Added a new paragraph 3.7.4.5. which reads as follows.

Service riser conduits in main telecommunications room shall be located behind the equipment racks.

27. 3.7.4.9. – Renumbered paragraph to 3.7.4.6 and clarified that the two data jacks are to be in separate outlet boxes not one. Revised paragraph to read as followsProvide each bedroom with two (one per desk) 8-pin modular jacks in separate outlets.

28. 3.7.4.10. – Renumbered paragraph to 3.7.4.7 and Changed “room” to “space”.

29. 3.7.5 – Added option to specify if necessary additional rooms receiving video teleconferencing capability.

30. 3.7.6 – Deleted “Intrusion Detection System” and the parenthesis around “IDS”.

31. 3.7.7 - Changed “the I3A Technical Guide” to “UFC 3-580-01 Telecommunications Bldg Cabling Systems Planning/Design” and deleted last sentence of paragraph.

32. 3.7.8 – Deleted paragraph.

33. 3.7.9 – Renumbered paragraph to 3.7.8.

34. 3.7.10 – Renumbered paragraph to 3.7.9.

35. 3.7.11 – Renumbered paragraph to 3.7.10.

36. 3.2.2.1.2 - Revised laundry room design requirements to clarify design intent.

37. 3.4.5.3 - Revised interior finishes chart so that unique corridor height requirements were removed. (min. 8' still required throughout building).

38. 3.6.1.1 - delete mechanical requirement to for waterless urinals.

39. 3.6.1.3 - Revised mechanical requirements to allow accessible means of cleanout.

40. 3.9 - Add paragraph 3.9 Government furnished BIM package to chapter 3.

41. 3.2 – Revised paragraph to read “Gross building area shall be calculated in accordance with Appendix Q."

42. 3.4.4.8 -Add paragraph for fire extinguisher cabinets to chapter 3.4.4.8.

43. 3.3.3 - Revised dumpster design paragraph.

44. 3.3.4 – Revised paragraph 3.3.4 concerning curb and gutter design.

45. 3.6.2.4 - Add the following to end of paragraph: “Occupant control shall also include ability to select heating or cooling mode. HVAC system shall be able to provide for year round heating or cooling in individual sleeping units as selected by the occupants.”

REV 1.2 *30 September 2008*

1. added structural live load requirements in chapter 3.5.1

2. removed prescriptive information from chapter 3.3.1 & 3.3.4

REV 1.1 *15 September 2008*

1. Updated floor plans in Attachment A
2. Revised Paragraph 3.3.2.1 to revise Appendix A to Attachment A

REV 1.0 *15 December 2007*

1. Baseline Document.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 3 – BASIC TRAINING AND ONE STATION UNIT TRAINING COMPLEX

REV 2.1 *31 August 2012*

3.1.4 Building Areas	
1.	Deleted text, *"A. GENERAL: Calculate building areas in accordance with Appendix Q."*
3.2.1.BTCOF Functional Spaces – B/COF	
2.	B. COMMON AREAS/Mechanical, Electrical and Telecommunications Rooms: Deleted text *"All telecommunications rooms shall be conditioned space."*
3.2.1.BTBN Functional Spaces – BNHQ	
3.	A. PRIMARY SPACES:/3) Administration (S1) Modified text, *"Provide a private S1 office, open S1 – PAC office to accommodate seven work stations and a message center for distributing mail and directives with a built-in counter between the message center and the corridor."*
3.3 Site Functional Requirements	
4.	A. PARKING/1) POV Parking Deleted text, *"Ensure that the location of parking complies with UFC 4-010-01. See paragraph 5.2.3 VEHICLE PAVEMENTS for additional information."*
5.	B. ACCESS DRIVES AND LANES/1) Access Drives Deleted text, *"Locate the drives in accordance with UFC 4-010-01. Restrict access to the drives, where applicable, as required by UFC 4-010-01. Design the pavements as required by paragraph 5.2.3 VEHICLE PAVEMENTS. "*
3.4 Site and Landscape Requirements	
6.	Deleted text from A. SITE STRUCTURES/1)Dumpster Enclosure Area, *"and in accordance with UFC 4-010-01 DoD Minimum Antiterrorism Standards for Buildings"*
3.5 Architectural Requirements	
7.	A. GENERAL: Deleted text, *"Provide durable and easily maintainable materials."*
8.	B. WALLS/1) Exterior Walls: Deleted text, *"Provide durable materials."*
9.	C. MOLD AND MILDEW: Added text, *"Perform a wall and/or roof construction moisture analysis to verify appropriate thermal insulation and vapor permeability retardant assemblies to prevent condensation with the wall and/or roof under all foreseeable climate conditions. "*
10.	D. ROOF SYSTEMS: deleted text, *"Roof pitch shall also comply with applicable Area Design Guideline and Installation Design Guideline if conflict exists design roof in accordance with most stringent slope."*
11.	1) Roof Mounted Equipment: modified text, *"Roof mounted equipment on pitched roof systems generally unacceptable, exceptions must have prior government approval. Roof mounted equipment on membrane roof systems shall be completely screened by the roof parapet to a distance of 400 feet."*
	E. OPENINGS
	1) Storefronts/Curtain Walls & Entrances:

12.	a) Storefronts (Main Entrance Doors) Deleted text, *"including UFC 4-010-01."*
13.	b) Curtain Wall Systems: Deleted text, *"including UFC 4-010-01."*
14.	2) Windows/a) Exterior Windows: Deleted text, *"including UFC 4-010-01."*
15.	3) Doors and Frames/a) Exterior Insulated Hollow Metal Doors & Frames: Deleted text, *"including UFC 4-010-01."*
16.	H. THERMAL REQUIREMENTS: Added text, *"Place emphasis on providing thermal envelope performance using continuous insulation components outside of the structural elements of the facility. "* Deleted text, *"See Section 3.12 Energy Conservation Requirements."*
3.5.BTCOF Architectural Requirements – B/COF	
	C. ACOUSTICAL REQUIREMENTS/3) BNCO Office: Deleted text, *"BN"*
3.5.1 Finishes and Interior Specialties	
	B. FINISHES
	1) Minimum Finish Requirements:
17.	b)Countertops: Modified text: *"Provide solid surfacing of cast 100 percent acrylic polymer to be used for countertops and backsplashes, 1/2-inch minimum thickness."*
18.	c) Window Stools: Modified text: *"Provide solid surfacing of cast 100 percent acrylic polymer 1/2-inch minimum thickness."*
19.	2) Minimum Paint Finish Requirements/a) Exterior Surfaces: Deleted Text, *"Application criteria shall be as recommended by MPI guide specifications."*
3.5.1.BTBN Finishes and Interior Specialties – BNHQ	
	B. FINISHES
20.	2) Finish Table: Added, "Message Center" to table
3.8 Plumbing Requirements	
21.	A. FIXTURE FLOW RATES:/2) Lavatory Faucets: changed flow rate from *"2.0 gpm"* to *"1.5 gpm"*
3.8.BTCOF Plumbing Requirements – B/COF	
	B. FIXTURE FLOW RATES:
22.	Deleted "1) Lavatory Faucets: Lavatory faucets located in the Sleeping Bay Toilet/Shower/Dressing shall be water conserving type with a maximum rated flow rate of 1.5 gpm."
23.	Added "Scrub Room Faucets: Faucets located in the Scrub Room shall have a maximum flow rate of 2.2 gpm."
3.9.BTCOF Communication and Security Systems – B/COF	
24.	A. TELECOMMUNICATION SYSTEMS:/2) CATV; Deleted text, *"See paragraph 6.10 for possible additional requirements."*
3.9.BTBN Communication and Security Systems – BNHQ	
25.	A. TELECOMMUNICATION SYSTEMS:/1) CATV; Deleted text, *"See paragraph 6.10 for possible additional requirements."*
3.10 Electrical Requirements	
26.	C. LIGHTING LEVELS, FIXTURES & CONTROLS/1): deleted text, *"Provide interior lighting controls in accordance with ASHRAE 90.1. Electronic ballast for linear fluorescent lamps shall be the high efficiency programmed start type."*
3.12 Energy Conservation Requirements	
27.	A. ENERGY PERFORMANCE REQUIREMENTS: Deleted Paragraph and all sub-paragraphs
3.13 Fire Protection Requirements	
28.	A. FIRE DETECTION AND ALARM SYSTEMS: Deleted text, *" The fire alarm system shall be designed by a professional Fire Protection Engineer and installed by a National Institute for Certification of Engineering Technologies (NICET) 3 technician."*

1.

REV 2.0 *30 June 2012*

1. Revised in its entirety to match new paragraph 3 formatting.

REV 1.16 *31 January 2012*

1. Paragraph 3.6.1.1: Delete Canteen Filling Station requirement.

2. Paragraph 3.6.1.1: Changed shower head and lavatory faucets flow rate from 2.0 gpm to 1.5 gpm.

3. Paragraph 3.6.2.1: Reference sub paragraph (c) beginning with "Continuous ventilation…in the last sentence revised the dew point from 51 to 48 degrees F and added the following requirement: DOAU unit shall be direct expansion (DX) type and cooling/dehumidification shall be available 24/7/365. DOAU units shall be minimum 14 SEER (3.52 COP) and equipped with hot gas reheat and auxiliary heat/ reheat coil.

4. Paragraph 3.6.2.2: Added the following requirement: Provide two separate controls in each sleeping bay such that a longitudinal privacy partition may be installed to divide the bay.

5. Paragraph 3.2.2.1(t): Need a new toggle option that allows the writer to select a Dry Boot Scraper Brush in lieu of the wet Boot Wash currently required in Paragraph 3. If the dry option is selected the boot wash drains in par. 3.6.1.2 would need to turn off in conjunction with par. 3.2.2.1.

   (t) Boot Scraper Brush Station: Cast iron dry boot scraper stations shall be provided beneath each covered training area and at the main building entrance. Provide ten (10) scraper stations beneath each covered training area and three (3) scraper stations at the main building entrance.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

6. Paragraph 3.2.2.2 Sleeping Bay: Removed minimum ceiling height requirement.

7. Paragraph 3.4.5.3 B/COF Interior Finishes Table: Revised Table.

8. Paragraph 3.4.5.4 BNHQ Interior Finishes Table: Revised Table.

9. Paragraph 3.2.2.3 Space Allocation Table: Revised Table

10. Paragraph 3.2.3.2 Space Allocation Table: Revised Table.

11. Paragraph 3.4.5.7 B/COF Furniture Chart: Revised Chart.

12. Paragraph 3.4.5.8 BNHQ Furniture Chart: Revised Chart.

13. Paragraph 3.3.2.1 Running Track: Revised location of Specification Section 02 83 30 to Appendix J.

14. Paragraph 3.3.4.2 Service Drives: Revised to "Access Drives".

15. Paragraph 3.2.2.2(j) Platoon Classrooms: Revised audio/visual requirements to read as follows: "Provide a classroom adjacent to each sleeping bay on each floor. Each classroom shall be sized for 60-persons seating and space for an instructor. Each classroom shall have 48 inches high dry-eraser marker boards along entire length of front and side walls and two flat screen-70 inch displays, an audio/visual equipment rack, a printer and an instructor podium. The displays, equipment rack, printer and podium are GFGI. Furnish and install display mounts, concealed electrical wiring, connections and accessories necessary for display and audio/visual operations. Windows shall have operable blinds."

16. Paragraph 3.9.1 Energy Performance: Revised paragraph to read as follows: The building shall meet the requirements of ASHRAE Standard 189.1 – 2009 without exception. In addition the building, including the building envelope, HVAC systems, service water heating, power, and lighting systems shall be designed to achieve an energy consumption that is at least 40% below the consumption of a baseline building meeting the minimum requirements of ANSI/ASHRAE/IESNA Standard 90.1-2007. The D-B contractor must document compliance with the above energy performance utilizing the methodology described in ASHRAE 90.1, Appendix G as discussed in section 01 33 16 Design After Award. (Note: Plug loads shall be included in building energy modeling but are subtracted in the final calculation of Energy Performance. See section "Design After Award" for additional guidance.) Gas fired boilers and water heaters shall be minimum 90% efficient at operating conditions.

17. Paragraph 3.9.2 Energy Conservation Features deleted in its entirety.

18. Paragraph 3.9.3 Compliance Documentation deleted in its entirety.

19. Paragraph 3.2.2.1(l) Arms Vault: Added compliance with AR 190-51 Security of Unclassified Army Property (Sensitive and Nonsensitive) and AR 190-13.

20. Paragraph 3.2.2.1(l) Arms Vault: Added the following to the vault requirements: Vendors shall be DAQ Level 3, Level 1 Certified.

21. Paragraph 3.2.2.2(p) Multipurpose Room: Revised the second sentence to read: Locate one multipurpose room at the rear end of each covered training area.

22. Paragraph 3.2.2.2(q) Scrub Room: Revised the second sentence to read: Locate one scrub room at the rear end of each covered training area, across from the multipurpose rooms.

23. Paragraph 3.7.6.1 Added following requirement: DOD ICIDS III is required for each arms vault.

24. Paragraph 3.7.6.1 Added following requirement: IDS Infrastructure is required for Secure Storage Rooms assessed at Risk Level III. If the Secure Storage Room is assessed at this level by the Installation, the Contractor shall provide infrastructure in accordance with AR 190-51, Paragraph 3-6.

25. Paragraph 3.4.5.2(c): Revised Vinyl Composition Tile to Resilient Flooring.

REV 1.15 31 May 2011

26. Paragraph 3.7.3 – Deleted "Compact fluorescent lamps of 12 watts or less shall not be used."

27. Paragraph 3.7.5.1 and 3.7.5.2 - Replaced “fiber optic” with “coaxial F type”.

28. Modified paragraph 3.9.3 Compliance Documentation. Changed Infiltration from 0.25 cfm/ft^2 to 0.15 cfm/ft^2

29. Modified paragraph 3.9.4 Schedules as follows:

a. **Training Barracks Sleeping Bays Internal Load Schedules. Revised Peak row and added note.**

Hr	Occupancy			Lighting			Plug Loads			Service Hot Water		
	Wk	Sat	Sun	Wk	Sat	Sun	Wk	Sat	Sun	Wk	Sat	Sun
1	1.00	1.00	1.00	0.05	0.05	0.05	0.05	0.05	0.05	0.00	0.00	0.00
2	1.00	1.00	1.00	0.05	0.05	0.05	0.05	0.05	0.05	0.00	0.00	0.00
3	1.00	1.00	1.00	0.05	0.05	0.05	0.05	0.05	0.05	0.00	0.00	0.00
4	1.00	1.00	1.00	0.05	0.05	0.05	0.05	0.05	0.05	0.00	0.00	0.00
5	1.00	1.00	1.00	0.90	0.90	0.90	0.05	0.05	0.05	0.10	0.10	0.10
6	0.00	0.00	0.00	0.50	0.50	0.50	0.05	0.05	0.05	0.00	0.00	0.00
7	0.00	0.00	0.00	0.10	0.10	0.10	0.05	0.05	0.05	0.00	0.00	0.00
8	1.00	1.00	1.00	0.90	0.90	0.90	0.05	0.05	0.05	1.00	1.00	1.00
9	0.00	0.00	0.00	0.10	0.10	0.10	0.05	0.05	0.05	0.00	0.00	0.00
10	0.00	0.00	0.00	0.10	0.10	0.10	0.05	0.05	0.05	0.00	0.00	0.00
11	0.00	0.00	0.00	0.10	0.10	0.10	0.05	0.05	0.05	0.00	0.00	0.00
12	0.00	0.00	0.00	0.10	0.10	0.10	0.05	0.05	0.05	0.00	0.00	0.00
13	0.50	0.50	0.50	0.90	0.90	0.90	0.05	0.05	0.05	0.00	0.00	0.00
14	0.50	0.50	0.50	0.90	0.90	0.90	0.05	0.05	0.05	0.00	0.00	0.00
15	0.00	0.00	0.00	0.10	0.10	0.10	0.05	0.05	0.05	0.00	0.00	0.00
16	0.00	0.00	0.00	0.10	0.10	0.10	0.05	0.05	0.05	0.00	0.00	0.00
17	0.00	0.00	0.00	0.10	0.10	0.10	0.05	0.05	0.05	0.00	0.00	0.00
18	0.50	0.50	0.50	0.90	0.90	0.90	0.50	0.50	0.50	0.10	0.10	0.10
19	1.00	1.00	1.00	0.90	0.90	0.90	0.50	0.50	0.50	0.10	0.10	0.10
20	1.00	1.00	1.00	0.90	0.90	0.90	0.50	0.50	0.50	0.10	0.10	0.10
21	1.00	1.00	1.00	0.50	0.50	0.50	0.25	0.25	0.25	0.10	0.10	0.10
22	1.00	1.00	1.00	0.20	0.20	0.20	0.05	0.05	0.05	0.00	0.00	0.00
23	1.00	1.00	1.00	0.05	0.05	0.05	0.05	0.05	0.05	0.00	0.00	0.00
24	1.00	1.00	1.00	0.05	0.05	0.05	0.05	0.05	0.05	0.00	0.00	0.00
Peak	60/72* occ/ Sleeping bay			1.0 W/ft^2			0.25 W/ft^2			1770 gal/hr		

*For occupancy, the capacity of the HVAC equipment should handle 72 occupants per sleeping bay but the annual energy consumption should be based on a peak value of 60 occupants per sleeping bay.

b. Added titled and revised table

Laundry Room Internal Load Schedule

	Washer/Dryer	Washer SHW

Hr						
>	Wk	Sat	Sun	Wk	Sat	Sun
1-18	0.00	0.00	0.00	0.00	0.00	0.00
19-21	1.00	1.00	1.00	1.00	1.00	1.00
22-24	0.00	0.00	0.00	0.00	0.00	0.00
Peak	44.2kW/per Laundry Room			80gal/hr per Laundry room		

c. Changed Hr column from 24-Jan in Training Barracks Sleeping Bay Thermostat Set-Point Schedules table to 24/7 days

d. Revised title of Training Barracks Company Operations First Floor Internal Load Schedules to Training Barracks Company Operations 1ST, 2nd and 3rd Floor Admin Areas Internal Load Schedules and changed Peak Plug Load to 0.5 W/ft^2

e. Revised title of Training Barracks Company Operations 2nd & 3rd Internal Load Schedules to Training Barracks Company Operations 2nd & 3rd Classrooms Internal Load Schedules and revised the table as follows

Hr	Occupancy			Lighting			Plug Loads			Service Hot Water		
	Wk	Sat	Sun	Wk	Sat	Sun	Wk	Sat	Sun	Wk	Sat	Sun
1	0.00	0.00	0.00	0.05	0.05	0.05	0.05	0.05	0.05	0.00	0.00	0.00
2	0.00	0.00	0.00	0.05	0.05	0.05	0.05	0.05	0.05	0.00	0.00	0.00
3	0.00	0.00	0.00	0.05	0.05	0.05	0.05	0.05	0.05	0.00	0.00	0.00
4	0.00	0.00	0.00	0.05	0.05	0.05	0.05	0.05	0.05	0.00	0.00	0.00
5	0.02	0.02	0.02	0.05	0.05	0.05	0.05	0.05	0.05	0.10	0.10	0.10
6	0.02	0.02	0.02	0.05	0.05	0.05	0.05	0.05	0.05	0.00	0.00	0.00
7	0.07	0.07	0.07	0.05	0.05	0.05	0.05	0.05	0.05	0.10	0.00	0.00
8	0.05	0.05	0.05	0.50	0.20	0.20	0.05	0.05	0.05	0.10	0.00	0.00
9	0.05	0.05	0.05	0.50	0.20	0.20	0.05	0.05	0.05	0.10	0.05	0.05
10	1.00	0.10	0.10	0.50	0.20	0.20	0.50	0.10	0.10	0.20	0.05	0.05
11	1.00	0.10	0.10	0.50	0.20	0.20	0.50	0.10	0.10	0.20	0.05	0.05
12	0.10	0.10	0.10	0.50	0.20	0.20	0.10	0.10	0.10	0.20	0.05	0.05
13	0.10	0.10	0.10	0.50	0.20	0.20	0.10	0.10	0.10	0.20	0.05	0.05
14	0.25	0.10	0.10	0.50	0.20	0.20	0.50	0.10	0.10	0.20	0.05	0.05
15	1.00	0.10	0.10	0.50	0.20	0.20	1.00	0.10	0.10	0.20	0.05	0.05
16	1.00	0.10	0.10	0.50	0.20	0.20	0.10	0.10	0.10	0.10	0.05	0.05
17	0.05	0.05	0.05	0.50	0.20	0.20	0.05	0.05	0.05	0.10	0.05	0.05
18	0.05	0.05	0.05	0.50	0.20	0.20	0.05	0.05	0.05	0.00	0.00	0.00
19	0.02	0.02	0.02	0.05	0.05	0.05	0.05	0.05	0.05	0.00	0.00	0.00
20	0.02	0.02	0.02	0.05	0.05	0.05	0.05	0.05	0.05	0.00	0.00	0.00
21	0.02	0.02	0.02	0.05	0.05	0.05	0.05	0.05	0.05	0.00	0.00	0.00
22	0.00	0.00	0.00	0.05	0.05	0.05	0.05	0.05	0.05	0.00	0.00	0.00
23	0.00	0.00	0.00	0.05	0.05	0.05	0.05	0.05	0.05	0.00	0.00	0.00
24	0.00	0.00	0.00	0.05	0.05	0.05	0.05	0.05	0.05	0.00	0.00	0.00
Peak	60/72*			1.0 W/ft^2			4.0 W/ft^2			10 gal/hr		

	occ/Classroom			

*****For occupancy, the capacity of the hvac equipment should handle 72 occupants per sleeping bay but the annual energy consumption should be based on a peak value of 60 occupants per classroom.

f. Revised title of Training Barracks Company Operations 2nd & 3rd Floor Thermostat Set Point Schedules to Mechanical and Electric Rooms Thermostat Set-Point Schedules and revised table as follows:

Hr	**Heating (°F)**			**Cooling(° F)**		
	Wk	Sat	Sun	Wk	Sat	Sun
24/7 day	55	55	55	90	90	90

g. Revised title of BT/COF Unoccupied Zone (ie stairwells, mechanical rooms) Thermostat Set Point Schedules to Training Barracks Company Operations 1st, 2ND & 3rd floor Thermostat Set Points Schedules for Administrative, Classroom, and Office Spaces.

REV 1.14 31 January 2011

1. 3.7.1.10 – Changed paragraph status to only show when a BCOF facility type is selected otherwise paragraph with show up as “Not Used”.

2. 3.7.1.11 - Added the following new paragraph:

   Electrical service shall be provided for electric dryers regardless of whether or not electric dryers are to be used.

REV 1.13 30 November 2010

1. 3.7.1.10 - Added the following new paragraph:

   Washers and dryers shall be considered to be continuous loads and all branch circuits, feeders and distribution equipment shall be sized accordingly. Each appliance shall be provided its own dedicated branch circuit. The use of demand factors at any point in the distribution system for sizing conductors and distribution equipment for these appliances is prohibited.

2. 3.7.4.3 – Reduced number of telephones from 10 to 5.

3. 3.9.3 – Revised Climate table data.

4. Revised floor first floor plan to show exterior pay phones.

REV 1.12 31 October 2010

1. Added following note to Structural Requirements 3.5.1: “Note that the minimum live loads indicated do not include partition loads. Partition loads of 15 pounds per square foot (psf) shall be added to all areas with a live load of 80 psf or less.”

2. Revised 3.5.1 (c) to read Sleeping Bays

REV 1.11 31 August 2010

1. Modified paragraph 3.2.2.2(d) to read:

   Toilet/Shower/Dressing: Each sleeping bay shall have two separate and equal toilet/shower/dressing rooms. Each toilet/shower/dressing room shall have a dressing area and shall be furnished with a minimum of twelve shower stalls, seven water closets and eight lavatories. Urinals shall not be substituted for water closets. Dressing area shall be furnished with continuous hardwood benches and mirrors. Benches shall be mounted on powder-coated steel pedestals permanently anchored to the floor. Benches shall run the entire length of the two longest walls of the dressing area. Furnish and install four full length wall mirrors each 16 to 24 inches wide by 72 inches high, spaced evenly on one short wall of each dressing area. Furnish and install thirty wall mounted clothes hooks spaced evenly along the walls of each dressing area above the wood benches. Lavatories shall be provided in a continuous solid surface material vanity top. Each lavatory shall be furnished with a combination stainless steel framed mirror and stainless steel shelf. Mirror shall be minimum 18 inches wide by 24 inches high. Stainless steel shelf length shall be full width of mirror and minimum 5 inches deep. Extend ceramic tile shower surround to ceiling. Provide tamper resistant showerheads.

2. Modified paragraph 3.2.2.2(e) to read:

   Laundry: Each sleeping bay shall have two separate and equal laundry rooms. Locate one laundry room adjacent to each toilet/shower/dressing area. Each laundry room door shall be 36 inches wide minimum. Each laundry room shall accommodate a total of five heavy-duty, extra capacity, commercial washers and six heavy-duty, extra capacity, double stacked commercial dryers. Washers and dryers are GFGI. Contractor furnished and installed fixed heavy gauge stainless steel clothes folding/hanging tables measuring 2 feet deep by 3 feet wide, and one stainless steel laundry tray and sink are required features of each laundry room. Provide power receptacles, natural gas connection (where gas is available to site) and vent connections for all dryers. Dryers shall be exhausted to the exterior. Do not manifold dryer exhaust vents.

3. Modified paragraphs 3.4.5.2(d) and 3.4.5.2(e) to read:

   (d) All walls shall be minimum 5/8" painted gypsum board, except where stated otherwise. All gypsum board shall achieve a score of 10, the highest level of performance for mold resistance under the ASTM D 3273 test method. All gypsum board shall be transported, handled, stored and installed in accordance with the GYPSUM ASSOCIATION – Guidelines For Prevention Of Mold Growth On Gypsum Board (GA-238-03). Use impact resistant gypsum board in vestibule, corridors, stairs, laundry, vending areas and storage areas. Provide a Level 4 Finish in accordance with USG Handbook, latest edition.

   (e) All ceilings shall be minimum 5/8" painted gypsum board, except where stated otherwise. All gypsum board shall achieve a score of 10, the highest level of performance for mold resistance under the ASTM D 3273 test method. All gypsum board shall be transported, handled, stored and installed in accordance with the GYPSUM ASSOCIATION – Guidelines For Prevention Of Mold Growth On Gypsum Board (GA-238-03). Provide a Level 4 Finish in accordance with USG Handbook, latest edition.

4. Revised the B/COF Interior Finishes Table, paragraph 3.4.5.3 and the BNHQ Interior Finishes Table, paragraph 3.4.5.4

5. Remove Attachment A- Drawings from the end of Section 01 10 00, paragraph 3 for the B/COF and BNHQ. This information will now be included in Appendix J Drawings.

6. The following changes were made to Paragraph 3.9.4 Schedules:

   a) Training Barracks Sleeping Bays Internal Load Schedules- Refer to the last line entitled "Peak"- changed 0.25kW/sf to 0.25W/sf under the "Plug Loads" column.
   b) Plug loads column of Training Barracks Company Operations First Floor Internal Load Schedules- Refer to the last line entitled "Peak"- changed 0.35kW/sf to 0.35W/sf under the "Plug Loads" column.
   c) Plug loads column of Training Barracks Company Operations 2ND and 3RD Floor Internal Load Schedules- Refer to the last line entitled "Peak"- changed 0.35kW/sf to 0.35W/sf under the "Plug Loads" column.

7. Paragraph 3.6.1.5: Replace the current paragraph with the following paragraph:

   3.6.1.5 Drain Water Heat Recovery System. Gravity Film Heat Exchanger (GFX) is a vertical counter flow heat exchanger that extracts heat out of drain water [and applies it to preheat the cold water and mixed with hot water to be used in the shower]. The GFX consists of a central copper pipe (that carries the warm waste water) with a ½ - inch copper coils wound around the central pipe. Heat is transferred from the waste water passing through the large, central pipe to the cold water simultaneously moving upward through the coils on the outside of the pipe. GFX shall be provided on all shower drains only drain piping.

8. Paragraph 3.6.1.1: Replace the last sentence of this paragraph with the following:

   All water closets and lavatories in the COF area shall be hands free type operation. All lavatories in the toilet /shower areas of the barracks sleeping bay shall use hand operated fixtures. Water closets in the barracks sleeping bay shall be hands free operation type.

9. Paragraph 3.6.1.1 Add the following:

   Canteen filling station: Provide one single bowl sink in each toilet /shower area of the barrack's sleeping bay. Sink shall have two goose neck type, lever operated, cold water dispensing faucets. Single bowl sink shall be similar to Elkay model CRS3322 with two openings for water dispensing faucets. Faucets shall be spaced to allow for the simultaneous filling of two canteen type water packs. Water dispensing faucets shall be similar to Elkay model LKDVR208513L

10. Change paragraph 3.6.2.(b) from 6 watts/sf in classromms to 4 watts/sf in classrooms

REV 1.10 30 June 2010

1. Modified paragraph 3.6.1., first paragraph to read:

   Domestic water heating system shall be sized in accordance with UFC 3-420-01, Appendix E, except as amended herein. Hot water consumption shall be based on 2 gpm per shower head with a delivered temperature of 110 deg F. Peak period duration shall be 19 minutes (3 groups with 5 minutes of shower operation each and 2 minutes of transition between groups). In addition to simultaneous shower operation, all lavatories and washing machine demand must be included without diversity. Hot water storage capacity shall be based on 75% usable storage and a storage temperature of 140 deg F. Domestic hot water distribution shall be at 120 deg F from a central system mixing valve. Domestic hot water distribution piping

shall be designed to handle up to 180 deg F water temperatures. Domestic hot water shall be provided by separate water heating boiler and tank systems or storage water heating systems, located within the barracks mechanical rooms

2. Changed title of paragraph 3.9 to: ENERGY CONSERVATION

3. Changed title of paragraph 3.9.1 to: Energy Performance

4. Modified paragraph 3.9.1 text to read:

   The building, including the building envelope, HVAC systems, service water heating, power, and lighting systems shall be designed to achieve a non-plug load energy consumption that is at least 40% below the consumption of a baseline building meeting the minimum requirements of ANSI/ASHRAE/IESNA Standard 90.1 2007 (see paragraph 5.9 Energy Conservation)

   and added the following to the end of the paragraph:

   (Note: Plug loads shall be included in building energy modeling but are subtracted in the final calculation of Energy Performance. See section “Design After Award” for additional guidance.)

   Also added the following sentence and Comment to document:I

   n addition, the building shall be designed and constructed to provide 30% of domestic hot water by use of solar hot water system.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

5. Changed the title of paragraph 3.9.2 to: Energy Conservation Features

6. Modified paragraph 3.9.2 text to read:

   All items listed in the required energy conservation features table shall be provided as a minimum. Additional energy conservation features may be required to meet the above energy performance. The contractor is responsible for determining and providing additional energy conservation features to meet the energy performance requirement. Where equipment types are indicated, only minimum efficiencies apply.

7. Changed title of paragraph 3.9.3 to: Compliance Documentation

8. Modified paragraph 3.9.3 text to read:

   The required energy conservation features shown in the following tables contribute to the achievement of the above energy performance and are life cycle cost effective for an BT/ BCOF facility. Use of the required energy conservation features does not eliminate the requirement for energy analysis calculations documenting compliance. The D-B contractor must document compliance with the above energy performance utilizing the methodology described in ASHRAE 90.1, Appendix G as discussed in section 01 33 16 Design After Award. The design analysis shall document each of the features selected to achieve the specified energy performance.

9. Changed title of Prescriptive Technology Solution Table(s) (all) to: Energy Conservation Features Table

10. Changed column heading “30% Solution” of Climate Zone Energy Conservation Features Table(s) (all climate zones) to: “Minimum Requirements”

11. Changed last paragraph of paragraph 3.9.3 to read:

12. All design features not described above will be in accordance with the minimum requirements of ANSI/ASHRAE/IESNA Standard 90.1-2007 including conformance with paragraph 5.9.2, which requires purchase of Energy Star and FEMP designated products.

13. Deleted paragraph 3.9.4 Compliance Path and it’s text.

14. Renumbered paragraph 3.9.5 to 3.9.4 Schedules.

    And modified paragraph text to read:

    The following facility schedules must be used in all facility energy simulations for purposes of documenting compliance with energy performance requirement.

15. 3.7.1.7 - Added the requirement that the quadraplex receptacle be on a dedicated circuit.

16. 3.7.2 – Changed the criteria reference from UFC 3-580-01 to the I3A to comply with changes to paragraph 5.0.

17. 3.7.4.4 and 3.7.4.5 - Deleted paragraphs.

18. 3.7.5 – Revised paragraph by putting requirements into subparagraphs 3.7.5.1 and 3.7.5.2.

19. 3.7.6.1 – Deleted the sentence: For additional information, see paragraph 6.10. It served no purpose in the paragraph.

20. 3.7.6.2 - Deleted the sentence: For additional information, see paragraph 6.10. It served no purpose in the paragraph. Also relocated last sentence to paragraph 3.7.9 where it’s more applicable.

21. 3.7.7 – Changed the criteria reference from UFC 3-580-01 to the I3A to comply with changes to paragraph 5.0.

22. 3.7.7.1 and 3.7.7.2 – Changed last sentence to read: See paragraph 6.10 for possible additional requirements.

23. 3.7.9 – Changed paragraph to read: The SIPRNET room shall be designed in accordance with paragraph 6.3.4.3 of the Technical Guide for the Integration of the SECRET Internet Protocol Router Network (SIPRNET). The previous requirements in the paragraph are covered by the Tech Guide for SIPRNET.

24. 3.4.4.5 Casework: Add the sentence “All countertops shall be solid surface.”

REV 1.9 31 May 2010

1. Revised the following paragraphs as follows:

   (a) Power subparagraphs: 3.7.1.3 and 3.7.1.7.

   (b) Lighting: 3.7.3 and 3.7.3.1(b).

   (c) Video Teleconferencing: 3.7.5

   (d) Intrusion Detection System (IDS): 3.7.6

   (e) Mass Notification: 3.7.8

   (f) Security Infrastructure: 3.7.11

   (g) Door Status/Alarm Monitoring System: 3.7.12

   (h) Fire Alarm Requirements: 3.8

   (i) Finish Hardware: 3.4.1.2 (deleted 6th sentence- repeated twice)

2. Revised the B/COF and BNHQ Interior Finishes tables (par. 3.4.5.3 and 3.4.5.4.) to reflect the following:

   (a) Removed Gyp Board Ceiling Requirement in Telecommunications Ceiling Room.

   (b) Allowed Exposed Ceiling in the Telecommunications Rooms at a 10’ minimum ceiling height.

   (c) B/COF – Added Note 11 as Follows: “11. COMPLY WITH THE REQUIREMENTS OF ANSI/TIA/EIA-569-B (GYPSUM BOARD CEILINGS ARE ACCEPTABLE)”.

   (d) BNHQ – Added Note 8 as Follows: “8. COMPLY WITH THE REQUIREMENTS OF ANSI/TIA/EIA-569-B (GYPSUM BOARD CEILINGS ARE ACCEPTABLE)”.

   (e) e. BNHQ- Increased ceiling height in BNHQ classroom to 14'.

3. Paragraph 3.2.3.1 (j): Deleted “A built-in lockable counter with laminated sliding glass window shall be integrated with a rolling shutter door between the S4 storage room and the corridor. Counter opening shall be 36 inches wide by 42 inches high minimum.”

4. Replaced the B/COF and BNHQ Floor plans. Added LEB floor plan.

5. Paragraph 3.4.2.2: In the last sentence- replaced the words “sleeping spaces” with “all surrounding spaces”.

6. Added new B/COF paragraph: 3.4.4.10 Drinking Fountains: Provide drinking fountains in accordance with International Plumbing Code (IPC). Provide a minimum of one per floor.

7. Revised paragraph 3.5.1 (a) from "Elevated Slabs" to "Elevated Floors".

8. Paragraph 3.2.1 Accessibility: Deleted reference to Americans with Disabilities Act (ADA).

9. Paragraph 3.2.2.1 Functional Space Requirements – First Floor (j): Added the following to the beginning of paragraph: "Secure Storage shall comply with paragraph 3-6 and Appendix B-2 of AR 190-51 Security of Unclassified Army Property (Sensitive and Nonsensitive). Default to Risk Level I unless a risk assessment and threat analysis is provided by the installation identifying the necessary Risk Level."

10. Paragraph 3.2.2.2 Functional Space Requirements – Second and Third Floor (c) Sleeping Bay: In the second section- Revised the requirement to read "accommodate one bunk frame 84 inches long by 42 inches wide..."

11. Paragraph 3.2.3.1 BNHQ Functional Space Requirements (t) Classroom Hall: Added the following to the end of the paragraph: "Provide a minimum of 5 drinking fountains. Provide drinking fountains in accordance with International Plumbing Code (IPC)."

12. Paragraph 3.2.2.1 Functional Space Requirements – First Floor: Added a new paragraph "(u) Recyclable Storage Area: Provide a recyclable storage area visible in areas of high circulation or adjacent to the main point of entry into the facility to serve as a single point of collection for recyclable materials in the facility. Provide the necessary number of bins for metal/plastic/glass/paper/cardboard items. Items may be combined to reduce the number of bins. If the installation has a single stream recycling system, provide a minimum of two bins to cover all items."

13. Paragraph 3.2.3.1 BNHQ Functional Space Requirements: Added a new paragraph "(y) Recyclable Storage Area: Provide a recyclable storage area visible in areas of high circulation or adjacent to the main point of entry into the facility to serve as a single point of collection for recyclable materials in the facility. Provide the necessary number of bins for metal/plastic/glass/paper/cardboard items. Items may be combined to reduce the number of bins. If the installation has a single stream recycling system, provide a minimum of two bins to cover all items."

14. Paragraph 3.4.4.9(a) Toilet Accessories, paragraph (12): Replaced "ADA" with "ABA".

15. Replaced BCOF and BNHQ Floorplans. Added new LEB Floorplan.

REV 1.8 *31 March 2010*

1. Revised the following paragraphs as follows:

   (a) 3.4.4.7(c) Insulated Hollow Metal Doors: Comply with ANSI A250.8/SDI 100. Doors shall be minimum Level 2, physical performance Level B, Model 2; factory primed. Provide insulated hollow metal doors for utility rooms, storage rooms and toilets ~~bathrooms~~.

   (b) 3.6.2.3 ***<BTBN_NO>***Not Used***</BTBN_NO><BTBN>***~~For BCOF, in headquarters building~~

   (a) All air handling units shall be located in mechanical rooms accessible only through an exterior door. Mechanical rooms shall be sized for ease of service, maintenance, and replacement of HVAC equipment. Air filters shall

be located in the mechanical room.

(b) Each conference room and classroom shall be zoned separately. Other space zoning shall be based on exterior envelope exposures. Where VAV systems are used, limit individual zones to a maximum of 2,500 cfm.

(c) Air handling units shall run continuously during occupied hours. Similarly, outdoor ventilation air required by ASHRAE 62.1 shall be continuous during occupied hours.***</BTBN>***

2. Revised the B/COF and BNHQ Interior Finishes tables (par. 3.4.5.3 and 3.4.5.4.) to reflect the following: Telecommunications Ceiling Height- Refer to added note.

3. Revise BNHQ Minimum Square footage requirements (NTS) requirements table (par. 3.2.3.2).

4. Deleted par. 3.9 GOVERNMENT FURNISHED BIM PACKAGE.

5. Para. 3.5.1(a) Change words “Elevated Slab” to “elevated Floors”.

REV 1.7 28 February 2010

1. Added 3.7.1.9 <BTLEB_NO>Not Used</BTLEB_NO><BTLEB>Provide a minimum of two 125-volt, duplex receptacles in each of the separate secure spaces within the LEB. One receptacle shall be placed near the overhead roll up door and one shall be placed on the wall opposite the door.</BTLEB>

2. Added 3.7.3.3 <BTLEB_NO>Not Used</BTLEB_NO><BTLEB>Each secure space within the LEB shall be illuminated to a level of 10 foot-candles and each space shall be separately switched..</BTLEB>

3. Added 3.7.13 Audio/Visual System

   <BTCOF>Provide an empty 1” conduit (with pull wire) above the ceiling from each GFGI ceiling mounted projector location to a wall mounted outlet box at the front of each classroom and conference room./BTCOF> <BTBN> Provide an empty 1” conduit (with pull wire) above the ceiling from each GFGI ceiling mounted projector location to a wall mounted outlet box at the front of each classroom.</BTBN>

4. Added 3.10 COMPLIANCE WITH THE ENERGY POLICY ACT OF 2005 (EPAct 2005)

5. Revised the following paragraphs:

   a. 3.2.3.1(o) Janitor: ~~Provide two janitor’s closets.~~ Provide a janitor's closet. Janitor’s closet shall have a 10 inch deep floor mounted stainless steel mop sink, with hot and cold service faucet, a four holder mop rack and two 18 inch deep by 48 inch long heavy duty stainless steel shelves for storage of cleaning supplies. Janitor’s closet shall have space for storage of buckets and vacuum.

   b. Removed the paperless gypsum board requirements and revised paragraphs 3.4.5.2(d) and (e) as follows:

      i. 3.4.5.2(d) ~~All walls shall be minimum 5/8” painted gypsum board, except where stated otherwise. Gypsum board shall be paperless high impact gypsum board. Use impact resistant gypsum board in vestibules,~~

~~corridors, stairs, laundry, vending areas and storage areas.~~ All walls shall be minimum 5/8" painted gypsum board, except where stated otherwise. All gypsum board shall achieve a score of 10, the highest level of performance for mold resistance under the ASTM D 3273 test method. All gypsum board shall be transported, handled, stored and installed in accordance with the GYPSUM ASSOCIATION – Guidelines For Prevention Of Mold Growth On Gypsum Board (GA-238-03). Use impact resistant gypsum board in vestibule, corridors, stairs, laundry, vending areas and storage areas.

ii. 3.4.5.2(e) ~~All ceiling finishes shall be minimum 5/8" painted gypsum board, except where stated otherwise. Gypsum board shall be paperless gypsum board.~~ All ceilings shall be minimum 5/8" painted gypsum board, except where stated otherwise. All gypsum board shall achieve a score of 10, the highest level of performance for mold resistance under the ASTM D 3273 test method. All gypsum board shall be transported, handled, stored and installed in accordance with the GYPSUM ASSOCIATION – Guidelines For Prevention Of Mold Growth On Gypsum Board (GA-238-03).

c. 3.4.5.3 and 3.4.5.4. Revised the B/COF and BNHQ Interior Finishes tables (attached) to reflect the following:

i. Sealed concrete floors are required in the electrical rooms and mechanical rooms. Removed the "Resilient Flooring" requirement and revised to "Sealed Concrete".

ii. An exposed ceiling is required in the electrical rooms and mechanical rooms. Removed the "Gypsum Wall Board - Paint" requirement.

d. 3.7.4.3 Connectivity shall be provided for 10 pay phones within ~~the~~each covered training areas per local telephone company requirements.

e. 3.7.5 ***<BTCOF>***~~Video teleconferencing capability shall be provided in each~~ Provide a dual (fiber optic and 8-pin modular)jack outlet for video teleconferencing connectivity in each: classroom and ***<BTCOF_ADDROOM>***«BTCOF_VIDEOTELECONFERNCE»***</BTCOF_ADDROOM></BTCOF>***

<BTBN>~~Video teleconferencing capability shall be provided in each: partitioned area in each classroom, conference room and~~ Provide a dual (fiber optic and 8-pin modular)jack outlet for video teleconferencing connectivity in each: partitioned area in each classroom, conference room***<BTBN_ADDROOM>***«BTBN_VIDEOTELECONFERENCE»***</BTBN_ADDROOM></BTBN>***

f. 3.7.6.2 Add the following sentence to the end of the BNHQ requirements. "The SIPRNET room shall be designed in accordance with paragraph 6.3.4.3 of the Technical Guide for the Integration of the SECRET Internet Protocol Router Network (SIPRNET)."

REV 1.6 30 September 2009

1. Replaced Paragarph 3.2.1 in its entirety.

REV 1.5 31 August 2009

1. Functional and Area Requirements: Delete term "International Building Code" and replace with "Appendix Q".

2. PAR. 3.2.3.1 BNHQ Functional Space Requirements: Add subparagraph (x) as follows:

   (x) Assembly Area: Provide two (2) Assembly Areas to allow soldiers to assemble and gather. Locate one paved area on the exterior sides of the building, adjacent to each classroom, sized to accommodate each classroom occupancy load at a minimum of seven (7) square feet per person.

3. PAR. 3.3.4(c) Add comment: Toggle for Barracks only.

4. PAR. 3.4.5.2(d): Add words in sentence; "Gypsum board shall be paperless high impact gypsum board."

5. PAR. 3.4.3.2 Roof: Change 1/4 to 1/2.

6. PAR. 3.4.3.7 Exterior Louvers: Add words in sentence; "Exterior louvers shall have bird, bug and or both screens and shall be designed to exclude wind-driven rain."

7. PAR. 3.7.6 Intrusion Detection System (IDS): Added paragraphs 3.7.6.1 and 3.7.6.2 and added IDS requirement for SIPRNET rooms.

REV 1.4 31 May 2009

1. Barracks/Company Operations Facility (B/COF):

   (a) Added a new paragraph 3.6.1.5 Drain Water Heat Recovery System.

   (b) Par. 3.2.2.1(i)Supply. Corrected the fourth sentence.

   (c) Par. 3.2.2.2 (e)Laundry. Added a clarification statement that washers and dryers are GFGI.

   (d) Par. 3.2.2.3 Replaced the Space Allocation Table.

   (e) Par. 3.4.1.2 Replaced the Finish Hardware paragraph. he B/COF Contractor, therefore, I "attempted" to revise the 9. Par. 3.4.1.3 Added a new Auxiliary Hardware paragraph.

   (f) Par. 3.4.1.4 Added a new Hardware for Fire Doors paragraph.

   (g) Par. 3.7.6 Intrusion Detection System (IDS). Replace the word ‘each’ with the word “the” in the first sentence.

   (h) Par 3.6.1.1 - Deleted sentence "Urinals shall be the waterless type or ultra-low flow consuming no more than 0.20 gallons per flush." from the last paragraph.

   (i) Replaced the drawings in Attachment A.

   (j) Par 3.6.2.1 - In the second sentence of the third paragraph, revised "living/sleeping modules" to "sleeping bays".

(k) Par. 3.5 revised the Structural Live Load requirements.

(l) Par. 3.6.2.4 Removed the first and second paragraph.

2. Battalion/Headquarters (BNHQ):

(a) Par 3.6.1.1 - Deleted sentence "Urinals shall be the waterless type or ultra-low flow consuming no more than 0.20 gallons per flush." from the last paragraph.

(b) Par.3.6.2.5 (HVAC). Removed reference to BCOF.

(c) Par. 3.2.3.2 Replaced the Space Allocation Table.

(d) Par. 3.4.1.2 Replaced the Finish Hardware paragraph.

(e) Par. 3.4.1.3 Added a new Auxiliary Hardware paragraph.

(f) Par. 3.4.1.4 Added a new Hardware for Fire Doors paragraph.

(g) Replaced the drawings in Attachment A.

(h) Par. 3.5 revised the Structural Live Load requirements.

(i) Added Par. 3.6.2.4 to BNHQ requirements.

REV 1.3 28 February 2009

1. Delete sentence in Par 3.6.1.1 that reads "Urinals shall be the waterless type."

2. Replace sentence in Par 3.6.1.1 that reads " Urinals shall be the waterless type." with the following: "Urinals shall be the waterless type or ultra-low flow type consuming no more than 0.20 gallons per flush."

3. Par 3.6.2.1 - Revise beginning of sentence as “For BCOF, all HVAC air handling units……”

4. Par 3.6.2.2 - Revise beginning of sentence as “For BCOF, heating, mechanical ventilation and air conditioning……..”

5. Par 3.6.2.3 - Revise beginning of sentence as “For BCOF, for purposes of prevention……”

6. Par 3.6.2.4 - Make this a permanent paragraph with no switching on or off.

7. Par 3.6.2.5 - Revise beginning of sentence as “For BNHQ, all air handling units shall……”

8. 3.7 - Revised the last sentence and took away the optional requirement based on facility type:

   Transient voltage surge protection shall be provided on service equipment.f~~or B/COFs.~~

9. 3.7.1 – Added the following sentence to the end of the paragraph:

The following shall also be provided.

10. 3.7.1.1 – Revised the following sentence as follows:

    Provide 125-volt d~~D~~uplex receptacles ~~shall be provided~~ per NFPA 70, ~~and~~ in conjunction with the proposed equipment and furniture layouts, and as per other stated requirements elsewhere in the RFP.

11. 3.7.1.2 - Deleted paragraph.

12. 3.7.1.3 - Renumbered paragraph to 3.7.1.2 and added “125-volt” in front of “duplex”.

13. 3.7.1.4 - Renumbered paragraph to 3.7.1.3 and revised paragraph as follows:

    For housekeeping purposes provide a minimum of one 12~~0~~5-volt~~, 20A~~ duplex receptacle per corridor~~.~~ and a minimum of one 125-volt duplex receptacle in the lobby. No point along bottom of corridor or lobby walls ~~at 18 inches above finished floor~~ shall be more than 25 feet from a receptacle. ~~Provide a minimum of one 120 volt, 20A duplex receptacle in the lobby for housekeeping purposes.~~ A hall shall be considered a corridor.

14. 3.7.1.5 - Renumbered paragraph to 3.7.1.4 and revised paragraph as follows:

    Provide 125-volt duplex receptacles mounted adjacent to lavatories. Provide a~~A~~ minimum of one for every two adjacent lavatories ~~shall be provided~~. Each single lavatory shall also be provided a receptacle. ~~Where toilet has only one lavatory, provide a receptacle.~~

15. 3.7.1.6 - Deleted paragraph.

16. 3.7.1.7 - Renumbered paragraph to 3.7.1.5 and revised paragraph as follows:

    Provide a~~A~~ minimum of two 12~~0~~5-volt~~, 20A~~ duplex receptacles ~~shall be provided~~ in each mechanical room ~~and one in each electrical and telecommunications room~~ in addition to NFPA 70 requirements. In addition, provide a minimum of one 125-volt duplex receptacle in each electrical room.

17. 3.7.1.8 - Deleted paragraph.

18. 3.7.1.9 - Deleted paragraph.

19. 3.7.1.10 - Renumbered paragraph to 3.7.1.6 and revised paragraph as follows:

    Provide ~~four~~six 125-volt duplex receptacles spaced evenly along exterior walls in each sleeping bay and two evenly spaced along each end wall.

20. 3.7.1.11 - Renumbered paragraph to 3.7.1.7 and added “125-volt” in front of “duplex”.

21. 3.7.1.12 - Renumbered paragraph to 3.7.1.8 and added “125-volt” in front of “duplex”.

22. 3.7.3 – Changed “13” to “12” and added the following sentenced to the end of the paragraph:

Provided lighting levels shall be within +/- 10% of required lighting levels.

23. 3.7.3.4 – Deleted paragraph.

24. 3.7.3.5 – Renumbered paragraph to 3.7.3.4.

25. 3.7.3.6 – Renumbered paragraph to 3.7.3.5.

26. 3.7.3.7 – Renumbered paragraph to 3.7.3.6.

27. 3.7.3.8 – Renumbered paragraph to 3.7.3.7.

28. 3.7.4 – Deleted last sentence of paragraph.

29. 3.7.4.2 – Revised paragraph as follows took away the optional requirement based on facility type:

    The required connection capability in classrooms is a minimum of one voice and one data outlet per room or partitioned area within the room~~and one data outlet per occupant~~

30. 3.7.4.6 – Deleted last sentence of paragraph.

31. 3.7.5 – Added option to specify if necessary additional rooms receiving video teleconferencing capability.

REV 1.2 15 September 2008

1. Par. 3.2.2.3 B/COF Space Allocation Table; Revised Minimum Net Square Footage Requirements to coordinate with the Army Standard Space Descriptions.

2. Par. 3.2.3.2 BNHQ Space Allocation Table; Revised Minimum Net Square Footage Requirements to coordinate with the Army Standard Space Descriptions. See attached excel spreadsheet for highlighted spaces.

3. Par. 3.4.1.1 Revised subparagraph formatting from “(b)” to “3.4.1.2”

4. Par. 3.3.1 (b) - delete “minimum” where used twice in first sentence.

5. Par. 3.3.4 (c) - edit as follows:

   (c) Troop Formation/Assembly Areas: Pavements for Troop formation/assembly areas, such as the pavement beneath the outdoor "Covered Assembly Areas" shall be constructed of Portland Cement Concrete having ~~a minimum 3,000 psi compressive strength and have~~ a minimum nominal thickness of 4 inches. ~~Contraction joints shall be spaced at a maximum of 6 feet on center and expansion joints shall be placed at 50 feet on center and at the intersection of walks and curbs.~~ Troop formation areas that are designed to also support emergency and service vehicle traffic will be designed as roadway pavements and designed to meet AASHTO standards. Vehicular supported walks shall be constructed of Portland Cement Concrete having a minimum ~~4,000 psi compressive strength and shall have a minimum~~ nominal thickness of 7 inches. Joint patterns shall be designed in accordance with AASHTO standards and shall be uniform and symmetrical. ~~Joint patterns shall be designed in accordance with AASHTO standards and shall be uniform and symmetrical.~~ The length to width ratio shall not exceed 1.25 for non-reinforced pavements

6. Par. 3.3.4(a) Delete the second space for 65 DFAC parking.

7. Par. 3.3.4(a) Delete the following sentence [POV parking, outside the designated BT Complex construction area, shall be designed and constructed by the Site Contractor.]

8. Par. 3.5 Structural Requirements - Add Paragraph 3.5.1 Live Loads as follows:

   (a) Elevated slabs 60 pounds per square foot (psf) minimum
   (b) Slab on grade 150 psf minimum
   (c) Barracks bays without partitioned rooms 80 psf
   (d) Centralized laundry area 150 psf, (but not less than actual equipment loads)

9. Par. 3.7.2 Change the first sentence from “Grounding shall be provided in accordance with NFPA 70 and the I3A Technical Guide”. to “Grounding shall be provided in accordance with NFPA 70 and UFC 3-580-01 Telecommunications Bldg Cabling Systems Planning/Design”.

10. Par. 3.7.4 in the first sentence, replace “I3A Technical Guide” with “UFC 3-580-01 Telecommunications Bldg Cabling Systems Planning/Design” and delete the last two sentences.

11. Par. 3.7.4.4 Change the 2nd sentence from “Cabling infrastructure shall be as shown in Figures B-1 thru B-4 of the I3A Technical Guide.” to “Cabling infrastructure shall be as shown in Figures 1 thru 4 of UFC 3-580-01 Telecommunications Bldg Cabling Systems Planning/Design.”

12. Par. 3.7.4.7 Replace “the I3A Technical Guide” with “UFC 3-580-01 Telecommunications Bldg Cabling Systems Planning/Design”.

13. Par. 3.7.4.8 and 3.7.4.9 Replace “B-3 of the I3A Technical Guide” with “4 of UFC 3-580-01 Telecommunications Bldg Cabling Systems Planning/Design”.

14. Par. 3.7.7 Replace “the I3A Technical Guide” with “UFC 3-580-01 Telecommunications Bldg Cabling Systems Planning/Design”.

REV 1.1 *30 April 2008*

1. Par. 3.1 Added "scrub rooms" to the description of the B/COF facility's composition.

2. Par. 3.2.2.1(i) Revised the issue counter requirements in the Supply area.

3. Par. 3.2.2.1(q) Revised the Scrub Room requirements.

4. Par. 3.2.2.1(r) In last sentence, added "and" in between "Electrical" and "Telecommunications" sections.

5. Par. 3.2.2.2(c) Added fire rating requirement to the gender seperation wall requirement in next to last sentence of paragraph.

6. Par. 3.2.2.2(e) Revised requirement for washers and dryers to commercial quality and revised requirement to a "laundry tray and sink" in the Laundry.

7. Par. 3.2.2.3 Revised the square footages in the Space Allocation Table to match the approved Army Standards requirements.

8. Par. 3.2.5 Revised first sentence to read: "Provide a lawn maintenance equipment storage building, based on 400 gross square feet per B/COF."

9. Par. 3.3.1(b) Deleted compressive strength requirements and the contraction and expansion joint descriptions from the paragraph.

10. Par. 3.3.1(c) Deleted compressive strength requirements from the paragraph.

11. Par. 3.3.2 Revised PT pit equipment requirement from "one 4-station pull up bar set per B/COF" to "four 4-station climbing bar sets per B/COF".

12. Par. 3.3.2(b) Revised PT pit equipment requirement from "one 4-station pull up bar set for each B/COF" to "four 4-station climbing bar sets for each B/COF".

13. Par. 3.3.2(b) Revised PT pit surface requirement from a synthetic turf surface to shredded rubber chips.

14. Par. 3.3.2.1 and 3.3.2.2 Renumbered to "(a)" and "(b)" respectively.

15. Par. 3.3.4(a) Revised the parking requirement to include the BNHQ parking as a responsibility of the B/COF Contractor. Also, added the option to also make the DFAC parking the responsibility of the B/COF Contactor.

16. Par. 3.3.4 Added a paragraph (d) Emergency Vehicle Access requirement.

17. Par. 3.4.2.1 Revised the STC interior door rating from "STC 25" to "STC 27".

18. Corrected the numbering of Par. 3.4.5.7, 3.4.5.8 and 3.4.5.9 to Par. 3.4.5.6, 3.4.5.7 and 3.4.5.8.

19. Par. 3.4.5.7 In the B/COF Furniture Chart, revised the last item to "60 wardrobes".

20. Par. 3.6.1.1 In first sentence revised the criteria reference to "UFC 3-400-01, Appendix E".

21. Par. 3.6.1.1 Added to end of paragraph "All water closet and lavatory fixtures shall be hands free type operation."

22. Par. 3.6.2.1 Added to end of paragraph "HVAC design loads must also account for surge population in sleeping bays and classrooms."

23. Par. 3.6.2.2 Deleted reference to "Department of the Army criteria" from the first sentence.

24. Par. 3.6.2.4 Revised reference from "Utility Monitoring Control System" to "Energy Monitoring Control System".

25. Par. 3.7 Revised paragraph heading to all caps and deleted reference to "BNHQ" from last sentence.

26. Par. 3.7.1 Capitalized 'Government Furnished Contractor Installed' equipment reference.

27. Par. 3.4.3 Revised Exterior Design Objectives requirements, including par. 3.4.3.1 Exterior Walls and 3.4.3.2 Roof.

28. Par. 3.4.3.6 Added sentence to end of the paragraph requiring the Contractor to designed window sills to discourage bird nesting.

29. Par. 3.4.4 Revised paragraph heading to "Interior Design Objectives" and renumbered subparagraphs.

30. Par. 3.4.4.6 Revised Fire extinguisher requirements.

31. Par. 3.4.4.7 Interior Doors and Frames: Revised entire paragraph.

32. Par. 3.4.4.8 Added "Window Stool" requirement.

33. Par. 3.4.4.9(d) Revised gypsum board requirements.

34. Par. 3.4.4.9(e) Revised ceiling finish requirements.

35. Par. 3.2.2.1(p) Delete the 4th sentence which reads: "Each multipurpose room shall be plumbed for hot and cold running water."

REV 1.0 *15 January 2008*

1. Baseline Document.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 3 – WARRIORS IN TRANSITION COMPLEX

REV 2.1 *30 June 2012*

General Comments	
1.	General removal/reduction the word “shall” from the document to reduce overall length. Made minor formatting and grammatical corrections. Deleted circular references. Consolidated and or deleted repeated text to reduce document length.
3.1.4 Building Areas	
2.	B. GROSS AREA: Deleted text “Calculate gross building area in accordance with Appendix Q” Added “Reference Paragraph 5 for gross area computation”. C. NET AREA: Deleted text “Net area is measured to the inside face of the room or space walls. Minimum dimension where stated shall be measured to the inside face of the defining enclosure” Added “Reference Paragraph 5 for net area computation”.
3.3 Site Functional Requirements	
3.	A. PARKING/ 1) POV Parking Deleted reference to 5.2.3 and UFC 4-010-01
4.	B. ACCESS DRIVES AND LANES/

	1) Access Drives: Deleted references to 5.2.3 and UFC 4-010-01. 2) Service Drives: Added text "Provide service drives to each mechanical and/or electrical room with a minimum width of 10 feet". 3) Emergency Vehicle/Fire Access Lanes: Deleted "Access must be within 33 feet of a building's entrance."
3.4 Site and Landscape Requirements	
5.	A. SITE STRUCTURES/ 1) Dumpster Area: Deleted references to UFC 4-010-01
6.	2) Changed title from "Shared Troop and Vehicular Walks" to "Roadway Pavements:"
3.5 Architectural Requirements	
7.	A. GENERAL: deleted text "Provide durable and easily maintainable materials."
8.	C. MOLD AND MILDEW: Added text "Perform a wall and/or roof construction moisture analysis to verify appropriate thermal insulation and vapor permeability retardant assemblies to prevent condensation with the wall and/or roof under all foreseeable climate conditions. "
9.	D. ROOF SYSTEMS: Deleted text. "Provide roof with pitch complying with applicable Area Design Guideline and Installation Design Guideline. If conflict exists, design roof in accordance with most stringent slope."
	E. OPENINGS: Deleted references to UFC 4-010-01
10.	G. ELEVATORS/CONVEYING SYSTEMS: Deleted text. "**Elevator Machinery Spaces**: Elevator pits, penthouses, and other such elevator equipment spaces are exempt from accessibility requirements in accordance with ABA Section F203.6."
11.	H. THERMAL REQUIREMENTS: Added text "Place emphasis on providing thermal envelope performance using continuous insulation components outside of the structural elements of the facility."
12.	I. AIR/VAPOR BARRIER SYSTEMS: Deleted air/vapor barrier information from paragraph 3.
3.5.1 Finishes and Interior Specialties	
	B. FINISHES
13.	1) Min. Finish Requirements: Deleted references to IBC and UFC 4-010-01 and Addition of standard requirement for ACT and gypsum ceiling finishes; addition of standard requirement for countertops and window stools. 2) Minimum Paint Finish Requirements: Consolidated information on minimum paint requirement.
3.8 Plumbing Requirements	
	B. FIXTURE FLOW RATES
14.	Deleted "1) Shower Heads: Shall have a maximum flow rate not to exceed 2.0 gpm."

	Deleted "2) Lavatory Faucets: Shall have a maximum flow rate not to exceed 2.0 gpm."
15.	D. PLUMBING FIXTURES:
16.	2) COMMERCIAL PLUMBING FIXTURES: a). Deleted mudroom/Bootwash requirement.
3.9 Communication and Security Systems	
	3.9.WTCO. A. TELECOMMUNICATION SYSTEMS
	c) **Message Center**: Deleted Message Center requirement under Connectivity.
	d) **Conference Room**: Changed requirement for one dual 8-pin modular jack to 2 dual 8 pin modular jack outlet.
3.10 Electrical Requirements	
17.	A. LIGHTING LEVELS, FIXTURES & CONTROLS: 1) Deleted text. "Provide interior lighting controls in accordance with ASHRAE 90.1. Electronic ballast for linear florescent lamps shall be the high efficiency programmed start type." 2) Deleted text "Provide automatic occupancy/vacancy sensor detection switching for lighting in common public areas such as corridors and lobbies centralized laundry etc."
3.12 Energy Conservation Requirements	
18.	B. Energy Performance: Deleted Text: "The building shall meet the requirements of ASHRAE Standard 189.1 – 2009 without exception. In addition the building, including the building envelope, HVAC systems, service water heating, power, and lighting systems shall be designed to achieve an energy consumption that is at least 40% below the consumption of a baseline building meeting the minimum requirements of ANSI/ASHRAE/IESNA Standard 90.1-2007. The D-B contractor must document compliance with the above energy performance utilizing the methodology described in ASHRAE 90.1, Appendix G as discussed in section 01 33 16 Design After Award. (Note: Plug loads shall be included in building energy modeling but are subtracted in the final calculation of Energy Performance. See section "Design After Award" for additional guidance.) Gas fired boilers and water heaters shall be minimum 90% efficient at operating conditions." Added Text: "See Section 5.10.1 for energy performance requirements."
19.	Deleted "1) Solar Water Heating: ***<SOLARWATER_HEATING>***In addition, the building shall be designed and constructed to provide 30% of domestic hot water by use of solar hot water system.***</SOLARWATER_HEATING>"***
20.	B. Required Energy Conservation Features & Tables: - Section deleted.
21.	C. Compliance Documentation: Section deleted
3.13 Fire Protection Requirements	
22.	C. FIRE DETECTION AND ALARM SYSTEMS: Deleted text: "The

	fire alarm system installation shall be supervised by a National Institute for Certification of Engineering Technologies (NICET) Level 3 (minimum) technician."
3.19.1 Furnishings	
23.	1) Furniture List: Deleted text "(5). Kitchen: (1). **2-Bedroom, 2-Bath Apartments**: Provide adequate space to accommodate two dining chairs. (2). **2-Bedroom, 1-Bath Apartments**: Provide adequate space to accommodate one table and two dining chairs.

REV 2.0 *30 March 2012*

1. Revised in its entirety to match new paragraph 3 formatting.

REV 1.19 *31 January 2011*

1. Modified section 3.2.5.1 Functional Space Requirements as follows:

   (d) Nourishment Center: removed last sentence

   (f) Child Activity Room: replaced entire paragraph

2. Modified Notes Section of 3.2.5.2 Space Allocation Table as follows:

   5) Entry door separating reception area from private offices should have a 2 foot by 2 foot window.

   6) Storage Room in Child Activity Room shall have:

      a. Door with a 2 foot by 2 foot window

      b. Self-closing device on door

      c. Wall mounted light switch to control ceiling light

      d. smoke detector installed

3. 3.7.1.2.5 – Added the following new paragraph:

   Provide a GFCI duplex receptacle adjacent to each water closet in all apartment bathrooms for future bidet.

4. 3.7.3.2.9 – Deleted paragraph.

5. 3.7.1.2.6 – Added the following new paragraph:

   Electrical service shall be provided for electric dryers regardless of whether or not electric dryers are to be used.

REV 1.18 *31 August 2010*

1. Modified section 3.2.2.1.1.1.(g) as follows:

   a. Deleted first bullet ("***Space for a 3-seat cushioned sofa 72 in. – 90 in. wide x 36 in. deep***").

   b. Second bullet, changed sofa dimensions to **55 in. wide x 32 in. deep**

c. Inserted the following bullet: "***Space for a lounge chair 33 in. wide x 32 in. deep x 32 in. high***"

d. Inserted the following bullet: "***Space for an ottoman 20 in. wide x 18 in. deep***"

e. Deleted next to last bullet ("***Space for a coffee table 39 in. – 45 in. wide x 20 in. – 24 in. deep x 15 in. x 17 in. high***")

2. Modified Table 3.4.5.8 as follows:

   a. Changed furniture requirements for 2-Bedroom/ 2 Bath Apartment Living-Dining to "***One loveseat, one lounge chair, one ottoman, one side table, one lamp, one entertainment unit***"

REV 1.17 31 July 2010

1. Modified section 3.6.1.7.1 added faucet requirement - For sink in the toilet area (Not the sinks in the Food Prep area), faucet shall be pre-mixed single push control that meets ABA requirements. Water shall run for 15 seconds.

2. Modified paragraph 3.6.1.7.2 added faucet requirement - For sinks in the toilet area (Not the sinks in the Food Prep area), faucets shall be pre-mixed single push control that meets ABA requirements. Water shall run for 15 seconds.

3. Modified paragraph 3.6.1.7.3 added faucet requirement - For sinks in the toilet area (Not the sinks in the Food Prep area), faucets shall be pre-mixed single push control that meets ABA requirements. Water shall run for 15 seconds.

4. Modified paragraph 3.6.1.4 modified ABA text

5. Modified paragraph 3.6.1.6 removed reference to ultra-low flow urinals.

6. Modified paragraph 3.2.5.1 (d) Nourishment Center: changed the dishwasher to CFCI.

REV 1.16 30 June 2010

1. Modified section 3.6.4 title to read "ENERGY CONSERVATION"

2. Modified paragraph 3.6.4.1 title to read "Energy Performance"

3. Modified paragraph 3.6.4.1 to read

   The building, including the building envelope, HVAC systems, service water heating, power, and lighting systems shall be designed to achieve an energy consumption that is at least 40% below the consumption of a baseline building meeting the minimum requirements of ANSI/ASHRAE/IESNA Standard 90.1-2007 (see paragraph 5.9 Energy Conservation)

   and added the following to the end of the paragraph:

   In addition, the building shall be designed and constructed to provide 30% of domestic hot water by use of solar hot water system where indicated as life cycle cost effective.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

4. Modified paragraph 3.6.4.2 title to read “Required Energy Conservation Features”

5. Modified paragraph 3.6.4.2 to read:All items listed in the required energy conservation features table shall be provided as a minimum. Additional energy conservation features may be required to meet the above energy performance. The contractor is responsible for determining and providing additional energy conservation features to meet the energy performance requirement

6. Added paragraph 3.6.4.3 “Compliance Documentation”

   The required energy conservation features shown in the following tables contribute to the achievement of the above energy performance and are life cycle cost effective for a WT facility. Use of the required energy conservation features does not eliminate the requirement for energy analysis calculations documenting compliance. The D-B contractor must document compliance with the above energy performance utilizing the methodology described in ASHRAE 90.1, Appendix G as discussed in section 01 33 16 Design After Award.

7. Changed paragraph 3.6.4.3, Zone 1A Table title to read: Climate Zone 1A, Energy Conservation Features Table

8. Changed paragraph 3.6.4.3, Zone 2A Table title to read: Climate Zone 2A, Energy Conservation Features Table

9. Changed paragraph 3.6.4.3, Zone 2B Table title to read: Climate Zone 2B, Energy Conservation Features Table

10. Changed paragraph 3.6.4.3, Zone 3A Table title to read: Climate Zone 3A, Energy Conservation Features Table

11. Changed paragraph 3.6.4.3, Zone 3B Table title to read: Climate Zone 3B, Energy Conservation Features Table

12. Changed paragraph 3.6.4.3, Zone 3C Table title to read: Climate Zone 3C, Energy Conservation Features Table

13. Changed paragraph 3.6.4.3, Zone 4A Table title to read: Climate Zone 4A, Energy Conservation Features Table

14. Changed paragraph 3.6.4.3, Zone 4B Table title to read: Climate Zone 4B, Energy Conservation Features Table

15. Changed paragraph 3.6.4.3, Zone 4C Table title to read: Climate Zone 4C, Energy Conservation Features Table

16. Changed paragraph 3.6.4.3, Zone 5A Table title to read: Climate Zone 5A, Energy Conservation Features Table

17. Changed paragraph 3.6.4.3, Zone 5B Table title to read: Climate Zone 5B, Energy Conservation Features Table

18. Changed paragraph 3.6.4.3, Zone 6A Table title to read: Climate Zone 6A, Energy Conservation Features Table

19. Changed paragraph 3.6.4.3, Zone 6B Table title to read: Climate Zone 6B, Energy Conservation Features Table

20. Changed paragraph 3.6.4.3, Zone 7A Table title to read: Climate Zone 7A, Energy Conservation Features Table

21. Changed paragraph 3.6.4.3, Zone 8A Table title to read: Climate Zone 8A, Energy Conservation Features Table

22. Changed paragraph 3.6.4.3, notes after table 8A title to read “Notes for Energy Conservation Features Table”:

23. Changed paragraph 3.6.4.3, note 6 to read:

    All design features of this EPACT 2005 & EISA 2007 compliant WT not described above will be in accordance with the minimum requirements of ANSI/ASHRAE/IESNA Standard 90.1-2007. including conformance with paragraph 5.9.2, which requires purchase of Energy Star and FEMP designated products.

24. Added paragraph 3.6.4.4 “Schedules”

    The following facility schedules must be used in all facility energy simulations for purposes of documenting compliance with energy performance requirement.

25. 3.7.1.2.1 – Removed the following from the paragraph

26. :….with the exception that tamper resistant receptacles are not required.

27. 3.7.8 – Revised paragraph to read:

    In the BnHQ, the SIPRNET room shall be designed in accordance with paragraph 6.3.4.3 of the Technical Guide for the Integration of the **SECRET** Internet Protocol Router Network (SIPRNET). Infrastructure for an Intrusion Detection System shall be provided. Infrastructure shall consist of conduit, pull wire and outlet boxes. Outlet boxes are required for a control panel, balanced magnetic switch, motion sensor, and duress switch unless specified otherwise in paragraph 6.10. System requirements shall be coordinated with the Installation.

28. 3.8.2 – Revised paragraph to read:

29. The fire alarm system installation shall be supervised by a National Institute for Certification of Engineering Technologies (NICET) Level 3 (minimum) technician.

30. Revised paragraph 3.4.3.5 (b) to read as follows:

    Other Exterior Doors: Provide insulated hollow metal exterior doors for entry to all spaces other than corridors, lobbies, or reception/waiting rooms. Doors and frames shall comply with applicable codes and criteria. Doors shall be minimum Level 3, physical performance Level A, Model 2 flush. Frames shall be 12-gauge, with continuously welded mitered corners and seamless face joints. Doors and frames shall be A60 galvannealed, in compliance with ASTM A653 and shall be factory primed. Fire-rated openings shall comply with applicable codes, and the

requirements of the labeling authority. Door and frame installation shall comply with applicable codes and criteria.

REV 1.15 31 May 2010

1. Modified paragraph 3.2.3.1 Functional Space Requirements: Replaced “Provide space for microwave, double sink, storage cabinets (lower and upper), and space for a full size refrigerator 28 in. wide”. with “Provide a countertop with both lower and upper storage cabinets (including shelves) with a double sink. Provide space for a microwave oven. Provide space for a full size refrigerator 28 in. wide.”

2. Modified paragraph 3.2.4.1 Functional Space Requirement: Replaced “Provide space for microwave, double sink, storage cabinets (lower and upper), and space for a full size refrigerator 28 in. wide”. with “Provide a countertop with both lower and upper storage cabinets (including shelves) with a double sink. Provide space for a microwave oven. Provide space for a full size refrigerator 28 in. wide.”

3. Modified paragraph 3.7.1.2.1 added the following to the end of the sentence: “with the exception that tamper resistant receptacles are not required”.

4. Modified paragraph 3.7.1.4.12 to replace “UFC 3-580-01” with “the Technical Criteria for I3A”

5. Modified paragraph 3.7.2 to replace “UFC 3-580-01 Telecommunications Building Cabling Systems Planning/Design” with “the Technical Criteria for I3A”

6. Modified paragraph 3.7.3.2.7: Added the following sentence “Switching shall be manual-ON/Automatic OFF.”

7. Modified paragraph 3.7.4.1: Added the following sentence “Provide voice and data connection capability to all workstations.”

8. Delete the following: 3.7.4.1.1 – 3.7.4.1.4

9. Modified paragraph 3.7.4.2.1 as follows: Provide each bedroom <REV>and living room with ~~one~~ a dual 8-pin modular jack ~~for data~~outlet. Locate near desk in the bedrooms.

10. Modified paragraph 3.7.5 Video Teleconferencing to replace “UFC 3-580-01” with “the Technical Criteria for I3A”

11. Modified paragraph 3.7.6 CATV as follows: All CATV outlet boxes, connectors, cabling, and cabinets shall conform to applicable criteria unless noted otherwise. All horizontal cabling shall be homerun from the CATV outlet to the nearest telecommunications room unless noted otherwise. See paragraph 6.0 PROJECT SPECIFIC REQUIREMENTS for possible additional requirements.

12. Modified paragraph 3.7.7 Mass Notification as follows: <MNS_INTEGRATE>MNS shall be integrated into the installation’s area wide MNS (Giant Voice). See paragraph 6 for ~~further~~possible additional requirements.</MNS_INTEGRATE>

13. Modified paragraph 3.7.8 Secure Telecommunications to replace “UFC 3-580-01” with “the Technical Criteria for I3A”

14. Add paragraph 3.7.11. Audio/Visual System: Provide a dual 8-pin modular jack outlet at the front of each conference room and an empty 1” conduit (with pull wire)

above the ceiling from each GFGI ceiling mounted projector location to a wall mounted outlet box located adjacent to the dual jack outlet.

15. Modified paragraph 3.8 Fire Alarm Requirements to delete 3.8.1 and subsequently renumbered the remaing paragraphs.

16. Modified paragraph 3.2.1 ACCESSIBILITY REQUIREMENTS - **Removed all references to ADA and ADAAG to reflect only ABA**

17. Modified paragraph 3.2.2.2 Common Areas - **Removed all references to ADA and ADAAG to reflect only ABA**

18. Modified paragraph 3.3.2 Site Structures and Amenities - **Removed all references to ADA and ADAAG to reflect only ABA**

19. Modified paragraph 3.3.3 Site Functional Requirements - **Removed all references to ADA and ADAAG to reflect only ABA**

20. Modified paragraph 3.4.4.9 Toilet Accessories - **Removed all references to ADA and ADAAG to reflect only ABA**

21. Modified paragraph 3.6.1.4. - **Removed all references to ADA and ADAAG to reflect only ABA**

22. Modified paragraph 3.6.2.3 - **Removed all references to ADA and ADAAG to reflect only ABA**

REV 1.14 31 March 2010

1. Modified paragraph 3.2.1 Accessibility Requirements Functional Space Requirements (f) Child Activity Room and Exterior Playground.

   Elevators: The Army Standard for WT Complexes requires that an elevator be provided for any building which exceeds one-story (1-Story). The elevator system shall fully comply with ASME A17.1 and ASME A17.2.1 in their entirety, as well as any additional requirements specified herein. Primary elevators shall be centrally located within the facility and shall have a minimum rated load capacity of 3,500 lb (1588 kg), with center opening doors and interior dimensions sized to accommodate a fully extended Emergency Medical Services (EMS) gurney, approximately 24 inches wide by 77 inches long, and four average sized adults. An additional elevator, meeting all specifications outlined above, shall be provided for every additional one-hundred (100) persons, or fraction thereof over the first one-hundred (100) persons the building is designed to accommodate, unless determined otherwise by a foot-traffic analysis. Such foot-traffic analysis shall be included in the general facility Design Analysis. All elevator interior walls,<REV>~~ceiling~~,</REV> doors, and fixtures shall have a Satin No. 4 Stainless Steel Finish. <REV>~~Floor finish shall be non-slip vinyl composition tile as specified in the Interior Finish Schedules of Paragraph 3.4.5, "Finishes."~~</REV> All elevators shall be furnished with removable hanging protective pads and fixed hooks to facilitate conversion to use for moving freight.

2. Modified paragraph 3.4.5.3 WT Barracks Interior Finishes: Replaced Chart

3. Modified paragraph 3.4.5.4 CoHQ Interior Finishes: Replaced Chart

4. Modified paragraph 3.4.5.5 BnHQ Interior Finishes: Replaced Chart

5. Modified paragraph 3.4.5.6 SFAC Interior Finishes: Replaced Chart

6. Modified paragraph 3.2.2.1.1.1 2-Bedroom, 2-Bath Apartments (D). Changed 18 inch to 12 inch

7. Modified paragraph 3.2.2.1.1.2 2-Bedroom, 1-Bath Apartments (D). Changed 18 inch to 12 inch

REV 1.13 28 February 2010

1. Modified paragraph 3.2.5.1 Functional Space Requirements (f) Child Activity Room and Exterior Playground.

   (f) Child Activity Room and Exterior Playground: Provide a room for child activities for different age groups, mainly infants and toddlers. Room shall have its own restrooms designed for each age group population. Provide one diaper changing station <REV>measuring 35 ¼" H x 60 ½" W x 24" D</REV> minimum <REV>with a sink and storage for fourteen (14) underneath storage trays. An exhaust fan is required at the diaper changing station capable of exhausting 100 – 150 cfm. The diaper changing table shall have and integral 6" lip to prevent infant from rolling off and an unbreakable mirror installed along the back wall. The sink at the diaper changing station shall have a Goose-neck faucet with wrist blade handles. Retractable stairs which lock into place are also required. Provide~~,~~ </REV> one food preparation area with space for full size refrigerator 30 in. wide,<REV> built-in solid surface countertop</REV> with room for a microwave, <REV> two separate</REV> stainless steel <REV> sinks and upper and lower cabinets. </REV> Provide a built-in sign-in desk located immediately inside the room entrance with power and a data port (See drawings in Appendix J). The built-in desk shall be a minimum of 4 feet long and must contain a lockable coat closet to store coats and personal items. Provide storage cubicles for a population of [STORAGE_CUBES] children and adequate storage shelving for books, magazines, toys, etc. See drawings in Appendix J. Provide a doorbell button in the reception area adjacent to the door leading into the child activity room. Doorbell shall be located inside the child activity room and shall be audible throughout the entire room. Interior door into activity room shall not be capable of being opened by guests within the reception area. See paragraph 3.3 SITE REQUIREMENTS for playground requirements.

2. Modified paragraph 3.4.5.2 Minimum Interior Finishes

   (e) <REV> Ceiling: ~~All ceiling finishes shall be minimum 5/8" painted gypsum board, except where stated otherwise. Gypsum board shall be paperless.~~ All gypsum board shall achieve a score of 10, the highest level of performance for mold resistance under the ASTM D 3273 test method. All gypsum board shall be transported, handled, stored and installed in accordance with the GYPSUM ASSOCIATION – Guidelines For Prevention Of Mold Growth On Gypsum Board (GA-238-03).</REV>

3. Replace chart 3.4.5.3

REV 1.12 31 January 2010

1. Replaced 3.2.5.2 SFACE Space Allocation Table with the following:

2. Replaced 3.4.5.8 Barracks Furniture Chart with the following:

3. 3.2.2.1.1.1 (e) corrected misspelled word.

4. 3.4.5.2 Minimum Interior Finishes – General: Deleted the word General

5. 3.4.5.2 (d) – Replaced the paragraph with the following:

   (a) Walls: ~~All wall finish shall be minimum 5/8" painted gypsum board, except where stated otherwise. Gypsum board shall be paperless. Use impact resistant paperless gypsum board in vestibules, lobbies, corridors, storage rooms, stairwells, multi-purpose rooms, vending areas and centralized laundry. Walls: All wall finish shall be minimum 5/8" painted gypsum board, except where stated otherwise.~~ All gypsum board shall achieve a score of 10, the highest level of performance for mold resistance under the ASTM D 3273 test method. All gypsum board shall be transported, handled, stored and installed in accordance with the GYPSUM ASSOCIATION – Guidelines For Prevention Of Mold Growth On Gypsum Board (GA-238-03). Use impact resistant gypsum board in corridors, storage rooms, stairwells and activity rooms and centralized laundries (if centralized laundries are required by RFP).

REV 1.11 02 December 2009

1. 3.2.1 Accessibility Requirements: modified paragraph - Certified Elevator Inspector.

2. 3.2.2.1.1.1 2-Bedroom, 2-Bath Apartments (b) – modified paragraph – Private Bathroom: Provide a lavatory, water closet and roll-in shower. Extend ceramic tile on shower wall ~~surround~~ to ceiling. All adaptable units above first floor shall receive standard shower pan with a face dam in lieu of accessible roll-in shower pan. Provide a shower head with a long hose in compliance with applicable accessibility regulations for all showers. Provide standard accessories as indicated in paragraph 3.4.4.9 Toilet Accessories.

3. 3.2.2.1.1.2 2-Bedroom, 1-Bath Apartments (b) – modified paragraph – Private Bathroom: Provide a lavatory, water closet and roll-in shower. Extend ceramic tile on shower wall ~~surround~~ to ceiling. All adaptable units above first floor shall receive standard shower pan with a face dam in lieu of accessible roll-in shower pan. Provide a shower head with a long hose in compliance with applicable accessibility regulations for all showers. Provide standard accessories as indicated in paragraph 3.4.4.9 Toilet Accessories.

4. 3.2.2.2 Common Areas – (b) Vestibule: Provide an enclosed transition space between the exterior and lobby. Provide a minimum of 7 feet clearance between doors. Provide a means for the doors to open automatically via a sensor or push button.

5. 3.2.3.1 Functional Space Requirements – (n) Reception/Waiting Room: Provide a vestibule between the exterior and the reception/waiting room. Provide a minimum of ~~6~~7 feet clearance between doors. Provide a means for the vestibule doors to open automatically via a sensor or push button. Provide a reception station consisting of a built-in reception counter for each company (shall be combined in a multi-company setting). Reception counter shall be capable of serving both able and disabled personnel.

6. 3.2.4.1 Functional Space Requirements – (u) Reception/Waiting Room: Provide a vestibule between the exterior and the reception/waiting room. Provide a minimum of ~~6~~7 feet clearance between doors. Provide a means for the vestibule doors to

open automatically via a sensor or push button. Provide a reception station consisting of a built-in reception counter for one person. Reception counter shall be capable of serving both able and disabled personnel.

7. 3.2.5.1 Functional Space Requirements – (a) Reception Area: Provide a large waiting/lounge area immediately adjacent to building entry. The large space will be used as a social interaction space for soldiers and their families. It will also serve as a waiting room for soldiers/families waiting to be assisted by staff members in the administrative areas. Provide a welcoming and warm atmosphere preferably with a visual connection to outside wooded areas and/or courtyard. A central gas-fired fireplace is a mandatory feature of this space. The fireplace shall be back to back type, also serving the exterior courtyard area. Provide a built-in reception desk for 2 people adjacent to administrative office area. Reception desk shall be able to oversee operations around the reception area. Reception desk must be able to serve both able and disabled personnel. Provide and install a wall mounting kit for a Flat Screen TV to include power and communication cables. Mounting kit location shall be coordinated with the furniture layout and placement finalized during design. Provide space for an ATM kiosk located within the reception area. The kiosk shall be within visual control of the reception desk. Provide a dual height electric water cooler in the vicinity of the public restrooms. The exterior courtyard area shall have roofed seating areas adjacent to building for tables and chairs. Provide a vestibule between the exterior and the reception area. Provide a minimum of 7 feet clearance between interior and exterior doors. Provide a means for the vestibule doors to open automatically via a sensor or push button.

8. 3.3.3 (e). Modified paragraph - <WTB_WTSFAC_NO>Not Used</WTB_WTSFAC_NO><WTB_WTSFAC>Drop off Lane: The Contractor shall provide drop off lanes at ~~<WTB~~>the WT Barracks~~</WTB><WTSFAC>~~ and the SFAC~~</WTSFAC>~~. The drop lanes shall be ADA accessible.</WTB_WTSFAC>

9. 3.4.4.9 (b) ~~Provide two heavy duty towel bars~~ Provide two Towel Bars – minimum 24 inches wide heavy duty grab bars and necessary in-wall blocking in each of the modules

10. 3.6.1.2 Modified paragraph - <WTB_NO>Not Used</WTB_NO><WTB> Provide outdoor areas for soldiers to rinse mud off field gear, boots and clothing before laundering. Provide one rinsing station per 30 persons, or a minimum of one boot wash area close to each entrance, which ever is greater. Each rinsing station shall be furnished with a pedestal mounted, hosed cold water faucet or hydrant. Faucet or hydrant shall be non-freeze type.~~ Provide boot wash areas with necessary freeze protection and drains equipped with easily maintainable sand interceptors.~~</WTB>

11. 3.6.2.6 Modified paragraph - <WTUASWTSFAC_NO>Not Used</WTUASWTSFAC_NO><WTUASWTSFAC>WTUAS or SFAC - All air handling units shall be located in mechanical rooms accessible only through an exterior door. Mechanical rooms shall be sized for ease of service, maintenance, and replacement of HVAC equipment. Air filters shall be located in the mechanical room. Occupant control shall also include ability to select heating or cooling mode. HVAC system shall be able to provide for year round heating.~~ in individual apartment units as selected by the occupant.~~

    Each conference and multi-purpose room shall be zoned separately. Other space zoning shall be based on exterior envelope exposures. Where VAV systems are used, limit individual zones to a maximum of 2,500 cfm.

Air handling units shall run continuously during occupied hours. Restroom exhaust fans shall be interlocked with the air handling units. Similarly, outdoor ventilation air required by ASHRAE 62.1 shall be continuous during occupied hours.</WTUASWTSFAC>

12. Added new Paragraph 3.7.1.4.13 Provide two 125-volt duplex receptacles in the storage room behind the reception counter and in the storage room adjacent to the AW2 office. Receptacles shall be placed on opposite walls and located adjacent to a dual jack telecommunications outlet.

13. Added new Paragraph 3.7.3.2.9. Provide a GFCI duplex receptacle adjacent to each water closet in all apartment bathrooms for future GFGI add-on bidet

14. Added new Paragraph 3.7.3.4.9 Provide an illuminance level of 30 foot-candles in the storage room behind the reception counter and in the storage room adjacent to the AW2 office.</WTSFAC>

15. Added new Paragraph 3.7.4.4.8 Provide two dual 8-pin modular jack outlets in the storage room behind the reception counter and in the storage room adjacent to the AW2 office. Locate adjacent to a duplex receptacle.

16. Added new Paragraph 3.6.4 COMPLIANCE WITH THE ENERGY POLICY ACT OF 2005 (EPACT 2005)

17. Revised Paragraph 3.2.3.1(o) to read as follows: Distribution Center: Provide room for administration personnel to provide support services for the distribution of materials. ~~letters.~~

REV 1.10 30 September 2009

1. 3.1 Revised 1st paragraph and removed HTML tags

2. 3.2.1 Revised accessibility requirements

3. 3.2.2.1.1 Revised 1st paragraph accessibility requirements

4. 3.2.2.2 (i) Revised accessibility requirements

5. 3.2.5.1 (a) Revised Reception Area to include installation of Flat Screen TV mounting kit

6. 3.2.5.1 (b) Revised amount of counter space to accommodate 10 chairs computer users

7. 3.2.5.1(l) Revised title from “Video Equipment Room” to “Camera Room” to agree with drawings and Army Standard.

8. 3.2.5.2 Revised Space Allocation Table – Added Note (3) to condition Storage Room in Reception Area

9. 3.4.4.9 (a) Revised for accessibility requirements

10. 3.4.4.9 (c) Revised for accessibility requirements

11. 3.4.5.6 Replaced SFAC Interior Finishes table:

12. 3.6.1.4 Revised for accessibility requirements

13. 3.6.2.3 Revised for accessibility requirements

14. 3.7.1.4.2 Revised sentence – add dual jack

15. 3.7.1.4.3 Revised sentence – add receptacle

16. 3.7.1.4.4 Revised sentence – add receptacle

17. 3.7.1.4.11 Added paragraph

18. 3.7.1.4.12 added paragraph

19. 3.7.3.2.8 revised paragraph – added laundry rooms

20. 3.7.4.4.1 Revised paragraph – changed number of jacks required

21. 3.7.4.4.7 Added paragraph

22. 3.7.10 Added paragraph for Sound System Infrastructure

REV 1.9 *31 July 2009*

1. Revised 3.2.2.1.1.2 2-Bedroom, 1-Bath Apartments (c) Walk-in Closet – Updated requirements

2. Removed all references to Apartment Unit and replaced it with Apartment

3. Removed all references to Apartment Units and replaced it with Apartments

4. 3.2.2.1.1.1 2-Bedroom, 2-Bath Apartments (a) Bedrooms – Deleted wall mirror

5. 3.2.2.1.1.1 2-Bedroom, 2-Bath Apartments (d) Kitchen – removed GFGI equipment and placed it in Chapter 2.

6. 3.2.2.1.1.1 2-Bedroom, 2-Bath Apartments (f) General Utility Closet – replaced 30 in depth with 14 in depth.

7. 3.2.2.1.1.2 2-Bedroom, 1-Bath Apartments (a) Bedrooms – Deleted wall mirror

8. 3.2.2.1.1.2 2-Bedroom, 1-Bath Apartments (d) Kitchen – removed GFGI equipment and placed it in Chapter 2.

9. 3.2.2.2 Common Areas (e) Multi-Purpose Rooms – Expanded paragraph to include multiple rooms

10. 3.2.2.3 Space Allocation Table – Update Kitchen/Laundry/Utility Closet Space Allocation

11. 3.4.4.9 Toilet Accessories (b)(2i) – Updated requirements

12. 3.4.4.9 Toilet Accessories (b)(2ii) – Updated requirements

13. 3.4.4.9 Toilet Accessories (c) – Used for both WT Barracks and SFAC

14. 3.6.1.3 Plumbing – Updated requirements

15. 3.2.5.1(l) – Changed name of room to Cam Room (to match floor plan) and revised first sentence to read as follows: Provide a room to accommodate an equipment rack containing GFGI CPU's for the observation cameras.

16. 3.7.1.1.3 – Added "with the exception of WT barracks dwelling units" to the end of the sentence.

17. 3.7.1.2.2 – Changed the requirement from one to two receptacles and added the following requirement: Receptacles shall be on a dedicated circuit.

18. 3.7.1.2.3 – Changed the requirement to one receptacle per wall.

19. 3.7.1.3.2 - Changed the requirement from one to two receptacles and added the following requirement: Receptacles shall be on a dedicated circuit.

20. 3.7.1.3.3 - Changed the requirement to one receptacle per wall.

21. 3.7.1.4.3 - Changed the requirement from one to two receptacles and added the following requirement: Receptacles shall be on a dedicated circuit.

22. 3.7.1.4.6 – Changed the requirement to one receptacle per wall.

23. 3.7.1.4.9 – Changed the name of the room to cam room to match floor plan.

24. 3.7.3.1 – Changed paragraph to simply say "General".

25. 3.7.3.1.1 – Deleted last sentence and moved it to it's own paragraph (3.7.3.1.5).

26. 3.7.3.1.3 – Added paragraph which says: Compact fluorescent lamps of 12 watts or less shall not be used.

27. 3.7.3.1.4 – Added paragraph which says: Electronic ballasts for linear fluorescent lamps shall be the high efficiency programmed start type.

28. 3.7.3.1.5 – Added paragraph which says: Provided lighting levels shall be within +/- 10% of required lighting levels.

29. 3.7.3.2.3 - Changed required illuminance level from 10 to 15.

30. 3.7.3.2.4 - Changed the word "motion" to "occupancy sensor".

31. 3.7.3.2.5 - Changed the word "motion" to "occupancy sensor" and added the following requirement: Switching shall be manual-ON/Automatic OFF.

32. 3.7.3.2.8 - Changed the word "motion" to "occupancy sensor".

33. 3.7.3.3.3 - Changed the word "motion" to "occupancy sensor".

34. 3.7.3.3.4 - Changed the word "motion" to "occupancy sensor".

35. 3.7.3.3.5 - Changed the word "motion" to "occupancy sensor".

36. 3.7.3.4.8 - Changed the name of the room to cam room to match floor plan.

37. 3.7.4.1.2 - Revised paragraph to read as follows: Provide 84 inch high equipment racks.

38. 3.7.4.2.1 - Added the words “for data” after “jack”.

39. 3.1.1 – Changed paragraph number to 3.7.5 and added the following:

    Provide an outlet that has both a fiber optic jack and a coaxial jack to provide video teleconferencing connectivity in each conference room. Outlet shall have a 125-volt duplex receptacle mounted adjacent to it in accordance with UFC 3-580-01

40. 3.1.1.1 – Deleted paragraph.

41. 3.1.1.2 – Deleted paragraph.

42. 3.1.2 – Changed paragraph number to 3.7.6 and added “unless otherwise noted” to the end of the second sentence.

43. 3.1.2.1 – Changed paragraph number to 3.7.6.1.

44. 3.1.2.2 – Changed paragraph number to 3.7.6.2.

45. 3.7.6.1.1 - Changed paragraph number to 3.7.6.2.1.

46. 3.7.6.1.2 - Changed paragraph number to 3.7.6.2.2.

47. 3.7.6.3.2 - Changed paragraph number to 3.7.6.3.1.

48. 3.7.6.3.3 - Changed paragraph number to 3.7.6.3.2.

49. 3.7.7 - Provided a note to Susan letting her know the radio button for this paragraph is not working.

50. 3.7.9 – Changed the location of the equipment rack from the telecommunications room to the cam room.

51. 3.8.6 – Changed the paragraph number to 3.8.1.

52. 3.8.7 – Changed the paragraph number to 3.8.2.

53. 3.8.8 – Changed the paragraph number to 3.8.3 and changed the requirement for the NICET Level 3 technician from performing the installation to supervising the installation.

54. 3.8.9 – Changed the paragraph number to 3.8.4.

55. 3.5.4.2 Minimum Interior Finishes Requirements (d & e) – Updated Minimum Interior Finishes Requirements

56. 3.2.3.1 (o) – Replaced the word Message with Distribution

REV 1.8 *31 May 2009*

1. Revised 3.2.2.1.1.2 2-Bedroom, 1-Bath Apartments (c) Walk-in Closet – Updated requirements

2. Revised 3.2.2.2 Common Areas (d) – Interior Corridors – Updated requirement

3. 3.2.5.2 Space Allocation Table – Update SFAC Space Allocation Table

4. 3.4.3.4 Other exterior Doors: Corrected from Non-entrance doors

5. 3.4.4.9 Toilet Accessories (b)(2i) – Updated requirements

6. 3.4.4.9 Toilet Accessories (b)(2ii) – Updated requirements

7. 3.4.4.9 Toilet Accessories (c) – Used for both WT Barracks and SFAC

8. 3.4.4.10 Mold and Mildew Mitigation – Added mitigation info

9. 3.5.4.2 Minimum Interior Finishes Requirements (d & e) – Updated Minimum Interior Finishes Requirements

REV 1.7 *30 April 2009*

1. Revised 3.2.1. ACCESSIBILITY REQUIREMENTS – Updated required elevator specifications.

2. Revised 3.2.2.1.1.1 2-Bedroom, 2-Bath Apartments (c) Walk-in Closet – Updated finish hardware

3. Revised 3.2.2.1.1.1 2-Bedroom, 2-Bath Apartments (d) Kitchen – Update drawer units

4. Revised 3.2.2.1.1.2 2-Bedroom, 1-Bath Apartments (b) Bathroom – Updated reference

5. Revised 3.2.2.1.1.2 2-Bedroom, 1-Bath Apartments(d) Kitchen – Update drawer units

6. Revised 3.2.2.2 Common Areas (d) - Deleted Elevators (Moved to 3.2.1)

7. Revised 3.2.2.3 - Updated Space Allocation Table names

8. Revised 3.2.3.1 Functional Space Requirements (x) - Deleted Elevators (Moved to 3.2.1)

9. Revised 3.2.3.2 CoHQ Space Allocation Table

10. Revised 3.2.3.2 Note (3) - Added note regarding Distribution Centers

11. Revised 3.2.4.1 (y) - Deleted Elevators (Moved to 3.2.1)

12. Revised 3.2.4.2 BnHQ Space Allocation Table

13. Revised 3.2.5.1 SFAC Functional Space Requirements (m) - Updated diaper changing station wall

14. Revised 3.2.5.2 SFAC Space Allocation Table

15. Added 3.2.5.2 Note (2) - Reiterated Standard requirement for Director’s Office

16. 3.3.2 Site Structures and Amenities (a) - Updated dumpster area
17. 3.3.3 Site Functional Requirements (c) – Updated SFAC Service Drives
18. 3.4.4.1 WT Barracks Signage – Updated signage requirements
19. 3.4.4.6 Fire Extinguisher Cabinets – Updated requirement
20. 3.4.4.9 Toilet Accessories (a)(4) – Updated unisex toilet
21. 3.4.4.9 Toilet Accessories (a)(5) – Updated toilet paper holder
22. 3.4.4.9 Toilet Accessories (a)(8) – Updated shower curtain rod
23. 3.4.4.9 Toilet Accessories (b)(1) – Updated towel bar
24. 3.4.4.9 Toilet Accessories (b)(2) – updated medicine cabinets and vanities
25. 3.4.4.9 Toilet Accessories (b)(3) - Updated soap dishes
26. 3.4.4.9 Toilet Accessories (b)(7) – Updated shower curtain rod
27. 3.4.4.9 Toilet Accessories (c) Public Toilets – Updated ADA language
28. 3.4.4.9 Toilet Accessories (c)(4) - Updated unisex toilet
29. 3.4.4.9 Toilet Accessories (c)(5) – Updated toilet paper holder
30. 3.4.5 Finishes – Updated minimum finishes
31. 3.4.5 Minimum Paint Finish Requirements (a, b & c) - Updated minimum paint finish requirements
32. 3.5.4.2 Minimum Interior Finishes Requirements (b, c, d & e) – Updated Minimum Interior Finishes Requirements
33. 3.7.3.1.1 Lighting – Updated lighting levels
34. 3.7.4.1 Telecommunications – Updated applicable criteria
35. 3.7.6 CATV – Updated applicable criteria

REV 1.6 *28 Februray 2009*

1. UNIVERSAL CHANGES IN THE WARRIORS IN TRANSITION (WT) COMPLEX RFP DOCUMENT:

    a. Replaced any reference to “675 Module” or “675 Apartment” with “2 Bedroom, 2 Bath Apartment”.

    b. Replaced any reference to “530 Module” or “530 Apartment” with “2 Bedroom, 1 Bath Apartment”.

2. Paragraph 3.2 – Replaced first sentence with the following sentence:

Gross building area shall be calculated in accordance with Appendix Q.

3. Paragraph 3.2.2.2(b) – Changed the second sentence to read:

   Provide a minimum of ~~6~~ 7 feet clearance between doors.

4. Paragraph 3.4.3.2 - Deleted last sentence in paragraph.

5. Paragraph 3.7.4.1 - Deleted last sentence in the paragraph

6. Paragraph 3.7.7 – Deleted first two sentences.

7. Paragraph 3.6.2.2 – Replaced the outside air requirements for the 2 Bedroom, 1 Bath Apartment as follows:

   For 2 Bedroom, 2 Bath Apartments outside air supply quantity shall be 130 cubic feet per minute (cfm) per apartment unit. Apartment unit exhaust shall be 50 cfm continuous through each bathroom exhaust for a total apartment unit exhaust rate of 100 cfm. For 2 Bedroom, 1 Bath Apartments outside air quantity shall be ~~30~~ 105 cfm ~~per bedroom for a total of 60 cfm~~ per apartment unit. Apartment exhaust shall be ~~45~~ 50 cfm continuous through bathroom exhaust. The number of exhaust fans and dedicated outdoor air units shall be the same and dedicated outdoor air units shall utilize exhaust air energy recovery.

8. Paragraph 3.2.2.2(l) Janitor closet - Add the following sentence at end of paragraph:

   Janitor closets shall have a floor drain with trap primer.

9. Paragraph 3.6.2.3 – Add the following sentences at the end of the paragraph:

   Occupant control shall also include ability to select heating or cooling mode. HVAC system shall be able to provide for year round heating or cooling in individual apartment units as selected by the occupants.

10. Paragraph 3.6.2.6 – Add the following sentence after the first sentence:

    For multi-story facilities, locate air handlers in upper floor mechanical rooms accessible from public corridors where they can be serviced without interrupting building functions.

11. Paragraph 3.7.3.2.6 - Added the following sentence to the end of the paragraph:

    If a ceiling fan is required in the living room a light kit may be provided to help achieve required lighting levels.

12. Paragraph 3.7.3.2.7 - Revised second sentence of paragraph to the following:

    Lighting shall utilize compact fluorescent fixtures with manual on/off switching.

REV 1.6 30 September 2008

1. 3.2.2.2 Common areas – Updated required elevator specifications

2. 3.2.2.2(i) Add the following sentence at the end: Provide water supply and floor drain with trap primer for all ice machines.

3. 3.2.3.1.x. CoHQ – Updated required elevator specifications

4. 3.2.4.1.d. BnHQ – Added lawyer to space requirements

5. 3.2.4.1.e. BnHQ – Added Para-Legal to space requirements

6. 3.2.4.1.y. BnHQ – Updated required elevator specifications

7. 3.2.5.1.w. SFAC – Updated required elevator specifications

8. 3.2.5.2. - Updated Bldg Support Areas to include Cam Room – provided new .tif file.

9. 3.3.2 - Added requirement for recycle dumpster to be included when required by the RFP preparer

10. 3.4.5.3 - Updated Kitchen and added Common Laundry

11. 3.4.5.5. – Updated BnHQ Interior Finishes for Lawyer & Para-Legal – provided new .tif

12. 3.4.5.10. BnHQ Furniture Chart – Added Lawyer and Paralegal to Note 1

13. 3.4.5.6. Updated SFAC Interior Finishes for Cam Room

14. 3.5.1. Structural Requirements – Added minimum requirements

15. 3.7.1.1.1 Revised to read “Provide 125-volt duplex receptacles per NFPA 70,……..”

16. 3.7.1.1.2 Added “125-volt” in front of “duplex”.

17. 3.7.1.1.3 Added “125-volt” in front of “duplex”.

18. 3.7.1.1.4 Changed “120-volt, 20A” to “125-volt”.

19. 3.7.1.1.5 Added “125-volt” in front of “duplex”.

20. 3.7.1.1.6 Changed “120-volt, 20A” to “125-volt” and added “125-volt duplex” in front of “receptacle”.

21. 3.7.1.2.2 Added “125-volt” in front of “duplex”.

22. 3.7.1.2.3 Changed “120-volt, 20A” to “125-volt”.

23. 3.7.1.2.4 Added “125-volt” in front of “duplex”.

24. 3.7.1.3.1 Added “125-volt” in front of “duplex”.

25. 3.7.1.3.2 Added “125-volt” in front of “duplex”.

26. 3.7.1.3.3 Changed “120-volt, 20A” to “125-volt”.

27. 3.7.1.3.4 Added “125-volt” in front of “duplex” and added the following two sentences:. These two receptacles shall be on a dedicated circuit. All remaining receptacles in room shall be on another dedicated circuit.

28. 3.7.1.3.5 Added “125-volt” in front of “duplex” and added the following two sentences:. A dedicated circuit shall provide power to these receptacles. All remaining receptacles in room shall be on another dedicated circuit.

29. 3.7.1.4.1 Added “125-volt” in front of “duplex”.

30. 3.7.1.4.2 Added “125-volt” in front of the first “duplex”. Revised the last sentence to read “In addition, provide a 125-volt duplex receptacle above sign-in countertop in child activity room and above shelf for microwave in nourishment center.” And added the following two sentences: Receptacles above countertop and above shelf in nourishment center shall be on a dedicated circuit. All remaining receptacles in nourishment center shall be on another dedicated circuit.

31. 3.7.1.4.3 Added “125-volt” in front of “duplex”.

32. 3.7.1.4.4 Added “125-volt” in front of “duplex”.

33. 3.7.1.4.5 Added “125-volt” in front of “duplex”.

34. 3.7.1.4.6 Added “125-volt” in front of “duplex”.

35. 3.7.1.4.7 Added “125-volt” in front of “duplex”.

36. 3.7.1.4.8 Added “125-volt” in front of “duplex”.

37. 3.7.1.4.9 Added “125-volt” in front of “quadraplex”.

38. 3.7.1.4.10 Added “125-volt” in front of “duplex”.

39. 3.7.2 Grounding, Replaced “the I3A Technical Guide” with “UFC 3-580-01 Telecommunications Bldg Cabling Systems Planning/Design”.

40. 3.7.4.1 Replaced all occurrences of “the I3A Technical Guide” with “UFC 3-580-01 Telecommunications Bldg Cabling Systems Planning/Design” and deleted the last sentence.

41. 3.7.4.1.2 Replaced “B-1” with “1”, “B-4” with “4” and “the I3A Technical Guide” with “UFC 3-580-01 Telecommunications Bldg Cabling Systems Planning/Design”.

42. 3.7.4.1.5 Replaced “the I3A Technical Guide” with “UFC 3-580-01 Telecommunications Bldg Cabling Systems Planning/Design”.

43. 3.7.4.1.6 Replaced “B-3” with “4” and “the I3A Technical Guide” with “UFC 3-580-01 Telecommunications Bldg Cabling Systems Planning/Design”.

44. 3.7.4.1.7 Replaced “B-3” with “4” and “the I3A Technical Guide” with “UFC 3-580-01 Telecommunications Bldg Cabling Systems Planning/Design”.

45. 3.7.4.2.1 Replaced “two” with “one” and “jacks” with “jack”.

46. 3.7.6 CATV, Replaced “the I3A Technical Guide” with “UFC 3-580-01 Telecommunications Bldg Cabling Systems Planning/Design”.

47. 3.7.8 Secure Telecommunications, Replaced “I3A” with “UFC 3-580-01 Telecommunications Bldg Cabling Systems Planning/Design”. Clarified SIPR only in BnHQ

REV 1.5 *15 September 2008*

1. Revised 3.1 – removed a comma after the word “WTUAS”.

2. Revised second paragraph to read “WT barracks is comprised of two types of standard 2-bedroom apartment units with either 2-bathroom or 1-bathroom, public toilets, vending, lobby with Charge of Quarters (CQ) station, multi-purpose room, storage and other support areas”.

3. 3.2.1. Added two sentences to the end of the paragraph

4. Revised 3.2.2.1.1.1(a) – added a space between the last “30” and “in”.

5. Revised 3.2.1.1 – Clarified 10% ADAAG/UFAS Compliance requirement

6. Revised 3.2.2.1.1.1(g) – removed brackets for “ceiling fan”. Ceiling fans are mandatory in Living Room.

7. Revised 3.2.2.1.1.2(a) – removed the words “a private bathroom”. The “530” module only has one shared bathroom.

8. Revised 3.2.2.1.1.2(b) – removed the words “dwelling unit” and added the words “apartment unit” instead, to be consistent with rest of document.

9. 3.2.2.2.(d). Elevators shall be a minimum of 5 feet x 8 feet, with a minimum occupant capacity of 2500 LB (1134 kg) and center opening door. This caused the rest of the lettering in the section to change.

10. Revised 3.2.2.2(j) – Updated restroom requirement to comply with applicable code

11. Revised 3.2.2.2(h) – Add space between “UFC 4-010-01” and “a”.

12. Revised 3.2.2.2(o) – Add bullets after “no less than”.

13. Revised 3.2.2.3 – Replaced Space Allocation table with new one.

14. Revised 3.2.2.3(1) Revised Space Allocation notes – Multi-Purpose Space

15. Revised 3.2.2.3(2) Space Allocation notes – add space between “-” and “200 PN”.

16. Revised 3.3.2(a) – Replaced the word “men” after “every 36” with the word “soldiers”.

17. 3.3.2 Deleted what was 3.3.2.b. Bus Stop. This caused lettering in the rest of the paragraph to change.

18. Revised 3.4.1 – Removed the number “1” before the word “Non-Destructive”.

19. Revised 3.4.3 – After the heading “Exterior Design Objectives” added the following: “Provide durable and easily maintainable materials. Do not use exterior materials that require periodic repainting or similar refinishing process. Material exposed to

weather shall be factory pre-finished, integrally colored or provided with intrinsic weathering finish".

20. Revised 3.4.3.1 – Removed the words "Provide durable and easily maintainable materials". Added the following: "Where exterior Insulation and Finish System (EIFS) or any other material except CMU or other Masonry material is used as exterior finish material, it shall be in conjunction with a CMU wainscot. EIFS shall be "high-impact" type and shall be drainable type".

21. Revised 3.4.3.2 – Removed the words "Provide durable and easily maintainable materials". Added the following: "Minimum roof slope for membrane roof systems shall be ¼ inch per foot. Minimum roof slope for pitched roof systems shall be 3 inches per foot". Any roof system shall include an unconditional no-dollar warranty of a minimum of 20 years.

22. Revised 3.4.4 – Removed the words "Building Interior", added the words "Interior Design Objectives".

23. Revised 3.4.4.6 to read: "Fire Extinguisher Cabinets and Fire Extinguishers: Furnish and install fire extinguisher cabinets and fire extinguishers as required by applicable codes and criteria. Furnish a list of installed fire extinguishers (including location, size and type) to the Contracting Office Representative".

24. Revised 3.4.4.7 to read: "Interior Doors and Frames:

    1. Provide hollow metal doors, or flush solid core woods as required. All door frames shall be hollow metal.

    2. Wood Doors: All doors shall be solid wood doors except as noted otherwise. Provide flush solid core wood doors conforming to WDMA I.S.-1A. Stile edges shall be non-finger jointed hardwood compatible with face veneer. Provide Architectural Woodwork Institute (AWI) Grade A hardwood face veneer for transparent finished doors.

    3. Insulated Hollow Metal Doors: Comply with ANSI A250.8/SDI 100. Doors shall be minimum Level 2, physical performance Level B, Model 2, factory primed. Provide insulated hollow core metal doors for utility rooms, storage and bathrooms.

    4. Hollow Metal Frames: Comply with ANSI A250.8/SDI 100. Frames shall be minimum Level 2, 16 gauge, with continuously welded mitered corners and seamless face joints, factory primed.

    5. Fire-Rated and Smoke Control Doors and Frames: Comply with applicable codes, criteria and requirements of labeling authority.

    6. STC Ratings shall be of the sound classification required and shall include the entire door and frame assembly.

25. Revised 3.4.5.3 - Replaced WT Barracks Interior Finishes Chart with new one.

26. Revised 3.4.5.6 – Updated with CESWF contact address

27. Revised 3.4.5.8 - Replaced WT Barracks Furniture Chart with new one.

REV 1.4 *15 July 2008*

1. Revised 3.1 by adding language to reference floor plans, including both barracks modules
2. Revised 3.2.2.1.1 updated ADAAG or UFAS to 10% of 675 GSF Rooms
3. Revised 3.2.2.1.1.1a. Updated Room Module to 675 GSF Room Module and added space for dresser
4. Revised 3.2.2.1.1.1d. Updated kitchen seating and GFGI equipment
5. Revised 3.2.2.1.1.1g. Added furniture in living room and updated NSF
6. Revised 3.2.2.1.1.2.a. Updated Room Module to 530 GSF Module and added space for dresser
7. Revised 3.2.2.1.1.2.b. Updated Bathroom for 530 GSF Module
8. Revised 3.2.2.1.1.2.c. Updated Closet for 530 GSF Module
9. Revised 3.2.2.1.1.2d. Updated Kitchen seating and GFGI equipment
10. Revised 3.2.2.2. to Common Areas
11. Revised 3.2.2.2.f. Updated Multi-Purpose Room scope
12. Revised 3.2.2.2.g. Update Mail Access Area to include Kiosk
13. Revised 3.2.2.2.h. Updated numbering
14. Revised 3.2.2.2.i. Updated numbering
15. Revised 3.2.2.2.j. Updated numbering
16. Revised 3.2.2.2.k. Updated numbering
17. Revised 3.2.2.2.l. Updated numbering
18. Revised 3.2.2.2.m. Updated numbering
19. Revised 3.2.2.2.n Added Centralized Laundry
20. Revised 3.2.2.3. Space Allocation Table – updated numbering
21. Revised 3.2.2.3. Space Allocation Table – Added 530 GSF Module
22. Revised 3.2.2.3. Space Allocation Table – Updated Multi-Purpose Room
23. Revised 3.2.2.3. Space Allocation Table – Added Central Laundry
24. Revised 3.2.2.3. Space Allocation Table – Note 2 – Updated PN
25. Revised 3.2.5.3.a. Updated minimum door clearance

26. Revised 3.2.5.3.i. Corrected letter “a”

27. Revised 3.3.2.b. Corrected miss-spelling

28. Revised 3.3.2.c Updated Bus Stop to be included with Barracks

29. Revised 3.4.4.3. Updated bulletin boards for barracks and COF

30. Revised 3.4.4.7a. Updated Showers for Admin Ops only

31. Revised 3.4.4.7.b. Removed “Private”

32. Revised 3.4.4.7.c. Added SFAC Public Toilets info

REV 1.3 *15 May 2008*

1. Revised paragraph 3.2.4.1(l) to reference ELECTRICAL AND TELECOMMUNICATIONS paragraph.

2. Deleted the following from 3.2.5.1(k)

   Telecommunications room shall include dedicated space for a video monitoring security equipment rack. Racks are 48 in. wide by 30 in. deep by 84 in. high. Provide 3 feet working clearance in front of, behind and on a minimum of one side of rack. Telecommunications equipment shall be in a separate secure accessible space within the same room. Spaces shall not be separated by a solid wall to allow for a single HVAC thermostat to control temperature in both spaces.

3. Added paragraph 3.2.5.1(l) Video Equipment Room.

4. Added paragraph 3.7.1.4.9

5. Added paragraph 3.7.3.4.8

REV 1.2 *30 April 2008*

1. After each paragraph number 3.6.2.1 thru 3.6.2.5 include the words "WT Barracks - " before the first sentence.

2. After paragraph number 3.6.2.6 include the words "WTUAS or SFAC -" before first sentence.

3. After paragraph number 3.6.2.7 include the word "SFAC -" before first sentence.

4. After each paragraph number 3.6.1.1 thru 3.6.1.5 include the words "WT Barracks - " before the first sentence.

5. After paragraph number 3.6.1.6 include the word "WTUAS -" before first sentence.

6. After paragraph number 3.6.1.7 include the word "SFAC -" before first sentence.

7. After paragraph number 3.6.1.8 include the word "SFAC -" before first sentence.

REV 1.1 *28 March 2008*

1. Enable this bracket to be edited. Currently the brackets will show up regardless of its need or non-need. The bracket will need to be tied to all types of buildings as the 'standard' drawings are being altered to enable all facilities to be multi-storied facilities.

2. In Paragraph 3.2.2.1.1(d) added dishwasher to the list of equipment in the last sentence to be GFGI.

3. Added option for Mail Access Area to Paragraph 3.2.2.1.2(g) to enable the installation to turn on or off to have a mail message center in the barracks for the occupants living in the barracks. The message center will be associated with the Multi-purpose Room.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

4. Add a new sub-paragraph in paragraph 3.2.2.1.2(l) to enable a small niche in the common area for a recycling center for paper, aluminum, and plastics.

5. Added the following to the end of Paragraph 3.2

   "Coordinate column spacing and layout with the building's floor plan so that columns occur within or in alignment with walls where they may be concealed as much as possible. Hold columns occurring within spaces to a minimum and limit them to larger public spaces. Plan column placement such that they do not interfere with functionality of the space."

REV 1.0 *09 March 2008*

1. Baseline Document.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 3 – DEPARTMENT OF EMERGENCY SERVICES

REV 2.0 *30 June 2012*

1. Revised in its entirety to match new paragraph 3 formatting.

REV 1.5 *30 September 2011*

1. The name Consolidated, Fire, Safety, and Security has been changed to Department of Emergency Services in entire document.

REV 1.4 *31 July 2009*

1. Minor corrections changing UFAS to ABA in Paragraph 3.5.3. Paragraph 3.1.4.6 modified cold water fill requirement.

REV 1.3 *31 May 2009*

1. Revised to add Attachment A, The Army Standard

REV 1.2 *30 April 2009*

1. Corrected typing errors and revised electrical requirements in Paragraph 3.

REV 1.1 *30 June 2008*

1. Changed “should” to “shall” in paragraph 3.7.2.1.

2. Added following sentence to Paragraph 3.8.2.1:

   “Apparatus Bay lighting design shall incorporate the design elements per UFC 3-530-01 for a Maintenance Facility Vehicle Storage/Repair Area.”

REV 1.0 *15 March 2008*

1. Baseline Document.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 3 – ARMY FIRE STATIONS

REV 3.0 *30 June 2012*

1. Revised in its entirety to match new paragraph 3 formatting.

REV 2.3 *31 July 2011*

1. Revised interior and exterior lighting requirements.

REV 2.2 *30 November 2010*

1. The room by room was not actually updated but has been revised. The revision to it is adding the space program pages that had previously been included with the standard drawings.

2. The standard drawings have also been updated to meet fixture requirement from the standard on restrooms.

REV 2.1 *31 May 2010*

1. Minor revisions throughout.

REV 2.0 *30 April 2010*

1. Numerous revisions throughout

REV 1.5 *31 July 2009*

1. Minor corrections changing UFAS to ABA in Paragraph 3.4.3. Paragraph 3.1.2.3 modified cold water fill requirement.

2. Revised The Army Standards for Fire Stations Construction (Draft) to change reference to the American Disability Act (ADA) to Architectural Barriers Act of 1968 (ABA).

REV 1.4 *31 May 2009*

1. Revised to reflect maturation of the standard design during the MT project process

REV 1.3 *30 April 2009*

1. Corrected typing errors and revised electrical requirements in Paragraph 3. Replaced all attachment files due to general updates as the standard designs mature.

REV 1.2 *15 July 2008*

1. Corrected some paragraph numbering in the Fire Station paragraph 3 - minor editorial corrections

REV 1.1 *30 June 2008*

1. Changed “should” to “shall” in paragraph 3.6.2.1.

2. Added following sentence to Paragraph 3.7.2.1:

   “Apparatus Bay lighting design shall incorporate the design elements per UFC 3-530-01 for a Maintenance Facility Vehicle Storage/Repair Area.”

3. Fixed number of Paragraph “TELECOMMUNICATIONS REQUIREMENTS”

4. Added the following to Paragraph 3.9:

   “….or Paragraph 6.0 of this Section”

REV 1.0 *30 April 2008*

1. Baseline Document.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 3 – PHYSICAL FITNESS CENTER FACILITY

REV 3.0 *30 June 2012*

1. Revised in its entirety to match new paragraph 3 formatting.

REV 2.10 *30 September 2011*

1. 3.1.3 Facility Betterments: Deleted.

2. 3.5.1 Fire Protection: Revised.

3. 3.5.3.1 Revised

REV 2.9 *31 July 2011*

1. Few miscellaneous changes throughout, primarily revision of lighting requirements.

REV 2.8 *31 March 2011*

1. Revised paragraph 3 narrative to include updated reference documents and lessons learned from facilities under construction.

2. Added question: "Outdoor Recreation Facility" to the checkbox list of modules if you check the box as it being part of the project we could then include a user defined appendix to provide the outdoor recreation facility technical requirements.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 2.7 *31 July 2010*

1. Weblink and attachment reference revisions

2. Revised Attachment B

REV 2.6 *31 July 2009*

1. Deleted paragraph 3.1(d)

2. In Attachment C deleted contents of Paragraph 1.2 and replaced with NOT USED.

REV 2.5 *27 February 2009*

1. Correct attachment references in paragraph 3.1.2

2. Revised paragraph 3.5.3.3 to remove references to relative humidity and wall gauges.

3. Deleted first sentence in paragraph 3.5.3.4

4. Deleted paragraph 3.5.3.5

5. Renumber paragraph 3.5.3.6 to 3.5.3.5 and deleted first sentence.

6. Deleted paragraph 3.5.3.7

7. Revised Attachment A & B

REV 2.4 *31 December 2008*

1. Reworded the 2nd sentence of 3.3.2.7 for clarity

2. Added requirement to protected light fixtures in the gymnasium in paragraph 3.6.2.2.

REV 2.3 *30 November 2008*

1. Attachment C Natatorium Criteria: The criteria was updated throughout

2. Added the Graeme Baker Pool and Spa Safety Act requirements

3. Deleted 3.3.2.16 to remove redundant requirement

REV 2.2 *31 October 2008*

1. Attachment C Natatorium has been updated with revisions throughout to comply with the facility type proponent requirements.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 2.1 *29 August 2008*

1. Attachment C Natatorium has been updated with revisions throughout to comply with the facility type proponent requirements.

REV 2.0 *30 June 2008*

1. This section has changed extensively. Please contact COS for specific questions.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 1.0 *18 April 2008*

1. Baseline Document.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 3 – ACCESS CONTROL POINTS

REV 1.0 *31 July 2009*

1. Baseline Document.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 3 – UAS MAINTENANCE HANGAR

REV 1.10 *31 July 2011*

1. Various revisions

REV 1.9 *31 May 2011*

1. Added values for High Density 3 company options.

2. Various other revisions

REV 1.8 *31 March 2011*

1. Deleted all reference to "Shadow Aircraft". They will not be housed in this standard hangar or be used on the same airfield.

2. Inserted option to designer for a medium or low density hangar throughout para 2 and 3 as requested by the HQ DA UAS and ACSIM.

3. Clarification to Para 3.2.8. OIL-WATER SEPARATOR SYSTEM, based on RFIs from D-B RFPs.

4. Clarification to airtightness of envelope in 3.3.3. UAS AIRCRAFT MAINTENANCE BAY, based on RFIs from D-B RFPs.

5. Table 3.4.1; Reduced "Allied Shops" by 3,000 SF and noted shops to be equal in the special requirements as requested by the HQ DA UAS.

6. Table 3.4.1; Renamed "UAV Platoon /Launch/Recovery Platoon/Systems Repair Platoon Office" to "Flight Platoon" as requested by the HQ DA UAS.

7. Table 3.4.1; Renamed "Armament Office" to "Maintenance Platoon" as requested by the HQ DA UAS.

8. Table 3.4.1; Added "Small Conference Room" as requested by the HQ DA UAS.

9. Table 3.4.2; Deleted and replaced the FF&E table with a revised table coordinated table 3.4.1.

10. Clarification to para 3.6. SITE FUNCTIONAL AREAS, based on RFIs from D-B RFPs.

11. Clarification to para 3.7.4. CEILINGS, sub para. (c) and (d) based on RFIs from D-B RFPs.

12. Clarification to para 3.7.6. WINDOWS / GLAZING, sub para. (a) and (c) based on RFIs from D-B RFPs.

13. Clarification to para 3.9.3. TRENCH DRAINS, based on RFIs from D-B RFPs.

14. Clarification to para 3.9.5. COMPRESSED AIR, based on RFIs from D-B RFPs.

15. Added "DESIGN AND ENERGY" to 3.11. HEATING, VENTILATING AND AIR CONDITIONING STANDARDS AND CODES

16. Deleted the designers Option 3 to para 3.12.2.1. FIRE SUPPRESSION, based on RFIs from D-B RFPs.

17. Deleted un-needed acronyms in 3.14. GLOSSARY.

REV 1.7 *31 January 2011*

1. Table 3.4:

   - TOE Storage & Tech Supply: Removed references to tools and added "Class IX Air" to the room name title.
   - Small Tools Room: Removed "and Bench Stock" to title.
   - Personnel Restrooms / Showers and Lockers: Clarified double tier locker requirement.
   - UAV Platoon ... Repair Platoon: Removed Stands Office from title.
   - Armament Platoon Office: Deleted "Platoon" from title.
   - Briefing Room: Reduced occupancy load to 55 to follow max occupancy load requirement.

2. Added Table 3.4.2. FURNITURE, FIXTURE, AND EQUIPMENT LISTING: Added table in its entirety.

3. Para 3.7.3 WALLS: clarified 8'0" high wall finish as per VE Study.

4. Para 3.9.5 COMPRESSED AIR: Deleted reference to AH 64 bays.

5. Para 3.9.6 SUMP PUMP: Deleted this para in its entirety.

6. Para 3.14 GLOSSARY: Deleted unneeded acronyms.

REV 1.6 30 November 2010

1. Para. 3.3.6 UAS Aviation Unit Operations Area. Defined occupancy load based on information supplied by the Army UAS and maintainer user rep.

2. Changes to Table 3.4:

   a. Base Shop Area, Structural Repair. Added composite booth as requested by Army UAS user rep

   b. Special Shop Area

      i. Better defined workstations in various areas in coordination with UAS Maintenance Rep

      ii. Adjusted square footages to accommodate 400 SF Secure Storage & Bench Stock

   c. Support Space Restrooms, Lockers & Showers. Combined Admin and Maintenance Restrooms and defined fixture count based on information from FDT and UAS user rep

   d. 2nd Floor Restrooms. Enlarged SF to accommodate Briefing and Classroom

3. Para 3.11.5.1. Design Conditions. Added Design Temps to accommodate various spaces.

REV 1.5 31 October 2010

1. Merged Table 3.3 into Table 3.4

2. Changes to Table 3.4:

   a. Combined the 1st floor Tech Library and Breakroom for a total of 424 SF and updated the 1st floor Aircraft Maintenance Shop Space and the Support Space totals accordingly.

   b. Added a functional description to the Facility Maintenance & Storage, UAV Standardization Officer and Safety Officer, Armament Platoon Office, General Purpose Storage, and Flight Platoon Office.

   c. Revised the lockers to the restroom/showers to be double tier 1/2 height.

   d. Deleted the Printer/Copier space on the 1st floor.

e. Split the UAV Standardization Officer and Safety Officer into to spaces at 100 SF each.

f. Reduced the UAV Platoon/Stands Office/Launch/Recovery Platoon/Systems Repair Platoon Office by 100 SF to accommodate the Safety Officer.

g. Reduced the Flight Planning SIPRNET and Flight Ops spaced by 1000 SF and created a 1000 SF Briefing Room.

3. Para 3.7.2. BASES: Removed rubber base at hangar.

4. Para 3.7.2. BASES: Removed rubber base at hangar.

REV 1.4 31 August 2010

1. Para. 3.2.2 GROSS BUILDING AREA; Reference made to Appendix Q.

2. Table 3.4 UAS HANGAR NET AREA SUMMARY; adjustments made to clarify Room Names and slight Authorized SF changes to accommodate required support spaces.

3. Table 3.4 UAS HANGAR NET AREA SUMMARY; All reference to 28V DC were deleted based on user needs.

4. Paras 3.2.3, 3.2.5, 3.7.5, 3.10.1, 3.10.4, 3.10.5, 3.10.7.1, 3.10.7.2, and 3.12; Minor clarification to wording based on reviews from the Ft Hood DPW and COS.

REV 1.3 31 July 2010

1. A cleaner version of Table 3.3.

2. Added back Paragraph 3.2.8 Oil Water Separator (OWS) which was inadvertently deleted in a previous update.

3. Table 3.4 clarified the overhead monorail requirement in only the Powerplant, enlarged the Production Control Room to better match the functional requirements of this room, added the Systems Repair Platoon office in with the UAV

4. Platoon/Stands Office/Launch/Recovery Platoon Office, added a note for GFGI antennas to the Flight Ops, and added a note to the boiler room.

5. Removed reference to Arms Vault para 3.7.4.(h)

6. Rewrite of Para 12 Fire Protection.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 1.2 30 June 2010

1. Table 3.3 and 3.4. Merged information.

2. Para 3.4.2 Added Web link to the FF&E Table.

3. Old para 3.11.3 & para 3.12.1. Deleted duplicated paras, i.e. the old para 3.11.3 and the second para to para 3.12.1.

4. Para. 3.7.5. Added general requirements to hangar doors and clear opening hts to service doors.

5. Table 3.11. Added indoor Design Temp to Hangar.

6. Para 3.12.7 Added requirement for fire water tank storage.

REV 1.1 *31 May 2010*

1. Minor Revisions

REV 1.0 *30 April 2010*

1. Baseline Document.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 3 – ATTACK OR ASSAULT BATTALION, OR CAVALRY SQUADRON (AAC) HANGAR

REV 1.1 *31 July 2010*

1. Table 3.2: Added option in Aircraft Maintenance Bay for if hydraulic oil delivery system cart is a Tronair, Model 52200EAOCFK

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

2. Table 3.2: Added option in Production Control to provide Marker Board(s) and flat screen monitor(s) in the common work area.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

3. Table 3.2: Added option in Production Control to provide Marker Board(s) and flat screen monitor(s)

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

4. Rewrite of Para 12 Fire Protection.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 1.0 *31 May 2010*

1. Baseline Document.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 3 – MODIFIED RECORD FIRE RANGE (MRF)

REV 2.1 *31 January 2013*

1. Revised the Allowable Facility Voltage Drop

REV 2.0 *30 June 2012*

1. Revised in its entirety to match new paragraph 3 formatting.

REV 1.4 *30 September 2011*

1. Paragraph 3.3.8 (1) - please change DOIM to NEC

REV 1.3 *31 July 2011*

1. Added Distribution List at the end of paragraph 3.

REV 1.2 *31 June 2011*

1. Telecommunications requirements and added Facility Specific Submittal Requirements.

2. Revised the Project Definition Matrix

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 1.1 *31 May 2011*

1. Updated the version of TC 25-8 from 2004 to the current 2010 version

REV 1.0 *31 January 2011*

1. Baseline Document.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 3 – AUTOMATED RECORD FIRE RANGE (ARF)

REV 2.2 *31 January 2013*

1. Revised the Allowable Downrange Voltage Drop

REV 2.1 *31 October 2012*

1. Moved paragraph 3.1.6 to 3.1.E

REV 2.0 *30 June 2012*

1. Revised in its entirety to match new paragraph 3 formatting.

REV 1.1 *31 July 2011*

1. Added Distribution List at the end of paragraph 3.

2. Telecommunications requirements and added Facility Specific Submittal Requirements.

3. Revised the Project Definition Matrix

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 1.0 *31 March 2011*

1. Baseline Document.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 3 – COMBAT PISTOL/MILITARY POLICE FIREARMS QUALIFICATION COURSE (CPQC/MPFQC)

REV 2.0 *30 June 2012*

1. Revised in its entirety to match new paragraph 3 formatting.

REV 1.1 *31 July 2011*

1. Added Distribution List at the end of paragraph 3.

2. Telecommunications requirements and added Facility Specific Submittal Requirements.

3. Revised the Project Definition Matrix

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 1.0 *31 March 2011*

1. Baseline Document.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 3 – LIVE FIRE SHOOTHOUSE (LVSH)

REV 2.1 *31 January 2013*

1. Revised "Lighting" to "Lightning" in the Downrange Area (Training Facility) Configuration

REV 2.0 *30 June 2012*

1. Revised in its entirety to match new paragraph 3 formatting.

REV 1.1 *31 July 2011*

1. Added Distribution List at the end of paragraph 3.

2. Telecommunications requirements and added Facility Specific Submittal Requirements.

3. Shoothouse Wall Material requirements were added.

4. Revised the Project Definition Matrix

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 1.0 *31 March 2011*

1. Baseline Document.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 3 – BATTLEFIELD WEATHER SUPPORT FACILITY (BWF)

REV 1.1 *31 January 2013*

1. 3.2 FUNCTIONAL AND OPERATIONAL REQUIREMENTS, 3.2.1 FUNCTIONAL SPACES, (2) PRIMARY SPACES, 2) Readiness Module, 1) Personnel Support Bay, (1) Consolidated Showers and Latrines. Omitted all bracketed options in both the 3rd and last sentences in their entirety. Revised paragraph reads as follows:

   (1) **Consolidated Showers and Latrine**s. Provide a set of shower / latrine facilities (ABA requirements) for each BWF. The design layout shall allow adjustment for the ratio of males and females in any unit by repositioning the dividing wall between their facilities at the time of initial construction. The facilities will have «BWF_LATRINE_ACCESS» access to these facilities. Provide lockers at a ratio of 3:1, lockers to showers, with benches. Minimum shower locker size is 12 inches (w) x 18 inches (d) x 36 inches (h). Provide showers for 100 percent of the organization to shower within 45 minutes after PT.

2. 3.2 FUNCTIONAL AND OPERATIONAL REQUIREMENTS, 3.2.1 FUNCTIONAL SPACES, (2) PRIMARY SPACES, 2) Readiness Module, 1) Personnel Support Bay, b) Equipment Support Bay, (2) Multi-Purpose Area. Revised the first sentence to read as follows:

   (2) Multi-Purse Area. Size the Multi-Purpose Area in the Equipment Support Bay for TMQ-53 equipment maintenance, with NLT 16 ft by 16 ft for each TMQ-53 maintenance space required by BWF Table 1, with an open area (unobstructed) of NLT four (4) ft by four (4) ft clear height to accommodate the 10 ft height for setting up the TMQ-53s in the quantities indicated.

3. 3.2 FUNCTIONAL AND OPERATIONAL REQUIREMENTS, 3.2.1 FUNCTIONAL SPACES, (3) COMMON AREAS, 7) Mechanical, Electrical, and Telecommunications Rooms, a) Telecommunications Rooms. Revised the last sentence to read as follows: Comply with I3A Technical Criteria.

4. Table 2, Paragraph 3.5.1.A.2 – MINIMUM FINSIH TABLES, EQUIPMENT SUPPORT BAY.

   a. Revised the floor finish to read SC at Multi-Purpose Room, NBC Storage, Secure Storage for Non-Sensitive Items, Unit Storage, and BAMS Locker Space.

5. 3.9 COMMUNICATIONS AND SECURITY SYSTEMS, C. SECURE COMMUNICATIONS, 1) SIPRNET. Replaced the word “Guide” at subparagraph a) and b) to read Criteria.

6. Table 3, Paragraph 3.19.1.B.1 – Furnishings Chart,

   a. BAMS furniture required has been revised to read as follows: 42 inches (w) x one 24 inches (d) x 78inches (h) metal locker; one (1) per each authorized military personnel.
   b. P3 Commander furniture required has been revised to read as follows: U-shaped executive desk with one box/box/file pedestal and one 2-drawer lateral file pedestal. One 4-drawer lateral file and one 2-drawer lateral file/bookcase combination unit. One conference table, four conference chairs, two guest chairs, one executive chair.
   c. P4 Superintendent, Senior Enlisted Advisor, Director of Operations furniture required has been revised to read as follows: L-shaped double pedestal desk unit, two 4-drawer lateral files, two guest chairs, one executive chair.
   d. X Executive Admin furniture required has been revised to read as follows: Systems furniture workstation with work surfaces, file drawers overhead storage, and personal storage tower.
   e. ST File Storage furniture required has been revised to read as follows: Two 5-drawer lateral files.
   f. SP5 Semi-Private Office furniture required has been revised to read as follows: Systems furniture double workstation with work surfaces, file drawers, overhead storage, and personal storage towers.
   g. OR Open Office furniture required has been revised to read as follows: Systems furniture workstation with work surfaces, file drawers, overhead storage, and personal storage tower.
   h. SIPR furniture required has been revised to read as follows: Systems furniture double workstation with work surfaces, file drawers, overhead storage, and personal storage towers. One 5-drawer lateral file; and four (4) lockable metal cabinets with shelves.
   i. ARMS Vault furniture required has been revised to read as follows: One (1) desk unit consisting of: double pedestal metal desk w/ one box/box/file pedestal and one file/file pedestal; one (1) ergonomic task chair; one (1) three shelf bookcase for manuals; one 5-drawer file cabinet, and one (1) work bench.

7. ATTACHMENT A BWF SPACE PROGRAM and LAYOUTS

   a. READINESS MODULE, Personnel Support Bay, Detachment, categories Shower Rooms – Men, Women, Area Subtotal, Internal Circulation and Area Total have all been revised.
   b. TOTAL BUILDING AREAS. Total Building Area has been revised to read Total Gross Building Area.
   c. TOTAL BUILDING AREAS. Total Maximum Allowable Gross Area row has been added after last row of table.
   d. LAYOUTS, 60PN DETACHMENT. SIPR CAFÉ / SFS / COMSEC area has been swapped with BREAK area.

REV 1.0 *31 October 2012*

1. Baseline Document.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 3 – TRAINING SUPPORT CENTER (TSC)

REV 1.0 *31 October 2012*

1. Baseline Document.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 3 – URBAN ASSAULT COURSE (UAC)

REV 1.0 *31 October 2012*

1. Baseline Document.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 3 – BASIC 10M-25M FIRING RANGE (ZERO)

REV 1.0 *31 October 2012*

1. Baseline Document.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 4 – APPLICABLE CRITERIA

REV 2.34 *30 June 2012*

1. Referred to 2009 Version of the International Building Code.

2. Replaced ASCE 37, Design and Construction of Sanitary and Storm Sewers (Manual and Reports of Practice No. 37) with “Manual of Practice No. 77, Design and Construction of Urban Stormwater Management Systems” and “Gravity Sanitary Sewer Design and Construction (ASCE Manuals and Reports on Engineering Practice No. 60)”

REV 2.33 *31 March 2012*

1. Added the following UFC’s:

   a. UFC 3-101-0 Architectural Design, (Applies only to the extent specifically implemented herein).

   b. UFC 3-210-10, Low Impact Development, applicable only to the extent specified herein.

c. UFC 3-420-01, Plumbing Systems, (Applicable only to the extent specifically implemented herein)

2. Added 2009 version reference to ASHRAE Standard 189.1

3. Added reference to Energy Independence and Security Act of 2007- “EISA” (applies only to the extent specifically implemented in the contract)

REV 2.32 30 September 2011

1. Removed dates of various Reference Documents

2. Added NPFE 70E, Standard for Electrical Safety in the Workplace

REV 2.31.1 31 May2011

1. In addition to the REV 2.3.1, added ASHRAE Standard 189.1, Standard for the Design of High-Performance Green Buildings (ANSI Approved; USGBC and IES Co-sponsored), - (APPLICABLE TO THE EXTENT SPECIFICALLY CALLED OUT IN THE CONTRACT)

2. Para. 4.2.11.1, corrected link to SIPRNET Guide Specification

REV 2.31 30 April 2011

1. Replace "U.S. Army Information Systems Command (USAISEC) TG for the Integration of SECRET Internet Protocol (IP) Router Network (SIPRNET). with "SECRET Internet Protocol (IP) Router Network (SIPRNET) Technical Implementation Criteria (STIC)". The Technical Guide for the Integration of SIPRNET has been revised and replaced by the STIC.

REV 2.30 31 October 2010

1. Para. 4.0, revised first sentence to say:

   Unless a specific document version or date is indicated, use criteria from the most current references, including any applicable addenda, unless otherwise stated in the contract or task order, as of the date of the Contractor’s latest accepted proposal or date of issue of the contract or task order solicitation, whichever is later.

2. Architectural Woodwork Institute, revised to “latest version” of AWI Quality Standards.

3. Builders Hardware Manufacturers Association (BHMA), revised to “The Various BHMA American National Standards”

4. Added paragraph 2.11.1 (ISEC), Draft Guide Specification for Section 27 05 28 PROTECTIVE DISTRIBUTION SYSTEM (PDS) FOR SIPRNET COMMUNICATIONS SYSTEMS, found at the Wizard Website.

REV 2.29 30 September 2010

1. Added note to ASHRAE 55, “Thermal Environmental Conditions for Human Occupancy”, that the Design portion is applicable except where precluded by other project requirements.

REV 2.28 30 June 2010

1. Added note to ASHRAE 55, “Thermal Environmental Conditions for Human Occupancy”, that the Design portion is applicable.

REV 2.27 31 May 2010

1. Added ASHRAE Standard 55 Thermal Environmental Conditions for Human Occupancy.

REV 2.26 30 April 2010

1. Deleted UFC 3-580-01, per ISEC.

2. Updated document number for *“North American Specification for the Design of Cold-Formed Steel Structural Members”* (AISI S-100)

3. ACI 315 has been replaced by SP 66 *“ACI Detailing Manual”*

REV 2.25 28 February 2010

1. Removed references to specific versions of Electronic Industries Association (EIA) publications. Instead, per paragraph 4.0, use the latest edition as of the date of the task order or contract.

2. Paragraph 4.0, APPLICABLE CRITERIA, added “including any applicable addenda” to the general requirement to use latest version of a document.

3. Per UFC 1-200-01, added the following under UFC 3-600-01:

   “UFC 3-600-01 Design: Fire Protection Engineering for Facilities. Use the latest edition of the IBC in coordination with this UFC. Use Chapters 3, 6, 7, 33 and UFC 3-600-01. If any conflict occurs between these Chapters and UFC 3-600-01, the requirements of UFC 3-600-01 take precedence. Use UFC 3-600-01 in lieu of IBC Chapters 4, 8,9,10.”

REV 2.24 31 January 2010

1. Clarification, adding NFPA 25 Inspection, Testing And Maintenance Of Water-Based Fire Protection Systems, which is already a requirement by the various NFPA publications.

2. Added note to 4.2.8, UFC 4-023-03 Design of Buildings to Resist Progressive Collapse:” (Use most recent version, regardless of references thereto in other publications)”

REV 2.23 30 October 2009

1. Para 4.0, moved and consolidated explanation concerning most current references and guidance in the event of conflict between references and/or between Applicable Military Criteria from paragraphs 4.1 and 4.3.

2. International Energy Conservation Code, revised applicability to add “Applicable only to the extent specifically referenced herein.” Still says “Refer to Paragraph 5, ENERGY CONSERVATION requirements.”

REV 2.22 30 September 2009

1. Added reference to ANSI/EIA/TIA 569-B-1 ADDENDUM to ANSI/EIA/TIA 569.

2. Renamed I3A from “Technical Guide for Installation Information Infrastructure Architecture” to “Technical Criteria for Installation Information Infrastructure Architecture” and clarified that this is mandatory criteria.

3. Clarified that the SIPRNET Guide is mandatory criteria for those facilities with SIPRNET.

4. Paragraph 4.2.8 (a), Clarified (a) to say: “Note the option to use tie force method or alternate path design for Occupancy Category II.” The option specifically applies to Occupancy Category II.

5. ASHRAE 90.1, deleted reference to the 2004 edition. Instead, refer to applicable RFP text for applicable version if stated, otherwise use latest version.

6. Deleted reference to LEED version 2.2. Instead, refer to applicable RFP text for applicable version.

REV 2.21 30 August 2009

1. Revised Accessibility References to the US ACCESS BOARD’s: “ABA and ADA Guidelines for Buildings and Facilities”, Specifically: ABA Chapters 1 and 2 and Chapters 3 through 10.

REV 2.20 30 April 2009

1. Added ASHRAE Guideline 0, “The Commissioning Process”

2. PARAGRAPH 4.2.1, Clarified that EPACT 2005 applies only to the extent specifically implemented in the contract, which may or may not directly cite or reference EPACT

3. Added reference to ACI 302.2R, Guide for Concrete Slabs that Receive Moisture-Sensitive Flooring Materials

REV 2.19 31 March 2009

1. Corrected title of “ AASHTO Structural Supports for Highway Signs, Luminaires and Traffic Signals” per CCR 2882.

REV 2.18 28 February 2009

1. Updated references to ASHRAE Handbook. Now mentions all Handbooks in the 4 Handbook series, applicable except as otherwise specified.

2. Added “and Chapter 9” to the existing International Building Code note that all references to the International Fire Code shall be considered to be references to Unified Facilities Criteria (UFC) 3-600-01, consistent with UFC 1-200-01, General Building Criteria.

3. Added ANSI/TIA/EIA-606-A, Administrative Standard for the Telecommunications Infrastructure of Commercial Buildings

4. Added NFPA 76, Fire Protection of Telecommunications Facilities, per UFC 3-600-01.

REV 2.17 31 January 2009

1. Paragraph 4.1, second sentence, revised to indicate to use most current criteria as of the date of the contract “or task order, unless otherwise stated in the task order”.

REV 2.16 31 December 2008

1. Added a reference to the ASME B31 Series of Piping Codes.

2. Updated references to Electronic Industries Association (EIA) documents ANSI/EIA/TIA 568-B and J-STD EIA/TIA 607-A.

3. Updated reference to ASHRAE Guideline 1.1.

4. Updated reference to paragraph 6.4.6, Utilities, in paragraph 5.2.5, Utilities.

REV 2.15 31 October 2008

1. Table 2: Industry Criteria, American Welding Society, added “Welding Codes and Specifications (as applicable to application, see International Building Code for example).”

2. Under National Fire Protection Association, added NFPA 14, “Standard for the Installation of Standpipes and Hose Systems”.

REV 2.14 29 August 2008

1. Under American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE), added designation that ASHRAE 90.1 is actually a tri-party joint publication, “ANSI/ASHRAE/IESNA 90.1, Energy Standard for Buildings Except Low-Rise Residential Buildings”.

REV 2.13 31 July 2008

1. Under Builders Hardware Manufacturers Association (BHMA), eliminated reference to specific standard for door closers. All BHMA standards for builders hardware are now referenced.

REV 2.12 30 April 2008

1. Under the ICC, International Code Council:

a. International Building Code, made technical correction, to third note concerning UFC 3-600-01: spelled out UFC as “Unified Facilities Criteria (UFC).”

b. International Mechanical Code (IMC) was previously deleted in December 2007 update. Restored the reference and corrected to say:

“Note: For all references to “HEATING AND COOLING LOAD CALCULATIONS”, follow ASHRAE 90.1.”

“Note: For all references to “VENTILATION”, follow ASHRAE 62.1”

2. Paragraph 4.2.5, spelled out Unified Facilities Criteria (UFC).

3. Paragraph 4.1, revise the 2nd sentence of paragraph 4.1 to read as follows: “Unless a specific document version or date is indicated, criteria shall be taken from the most current references as of the date of issue of the contract.”

4. Paragraph 4.1 Industry Criteria, Table 1: changed “ASHRAE 90.1” to “ASHRAE 90.1 - 2004”.

REV 2.11 28 February 2008

1. Updated EIA/TIA 569-A to ANSI/EIA/TIA 569-B.

2. Added <REV> tags</REV> to second item in 3 below, inadvertently omitted last month.

REV 2.10 31 January 2008

1. Deleted revision number for Steel Joist Institute “Catalog of Standard Specifications and Load Tables for Steel Joists and Joist Girders”.

2. Deleted version number for MBMA “Metal Building Systems Manual”.

3. Per UFC 1-200-01, paragraph 1-2.1, noted:

All references in the International Building Code to the International Electrical Code shall be considered to be references to NFPA 70.

All references in the International Building Code to the International Fuel Gas Code shall be considered to be references to NFPA 54 and NFPA 58.

All references in the International Building Code to the International Fire Code shall be considered to be references to UFC 3-600-01.

REV 2.9 15 December 2007

1. Deleted references to International Mechanical Code and International Energy Conservation Code and provided clarification references to ASHRAE 90.1 and Paragraph 5, Energy Conservation requirements, respectively.

2. Added the following note to paragraph 4.2.12, SIPRNET “See Paragraph 3 for applicability to specific facility type. May not apply to every facility.”

REV 2.8 *15 November 2007*

1. Added reference to “UFC 3-410-01FA Heating, Ventilating, and Air Conditioning - applicable only to the extent specified in paragraph 5, herein.” The indoor and outdoor design conditions from the UFC will be applicable, as will special requirements for high humidity areas.

REV 2.7 *15 October 2007*

1. Deleted second sentence from Paragraph 4.1

REV 2.6 *25 September 2007*

1. Table 1, Industry References, deleted International Fuel Gas Code. Only the National Fuel Gas Code, NFPA 54, is applicable.

REV 2.5 *01 September 2007*

1. Revised Paragraph 4.2.5 as this document is no longer a Draft.

2. Revised Title from ANSI C2 to ANSI/IEEE C2-2007 in reference to the National Electrical Safety Code.

REV 2.4 *15 July 2007*

1. Revised Paragraph 4.2.9 (a) to provide email address to obtain Technical Guide.

2. Added Uniform Federal Accessibility Guidelines (UFAS).

REV 2.3 *15 June 2007*

1. Revised ”American Institute of Steel Construction (AISC) list Manual of Steel Construction - Load Resistance Factor Design, 3rd Edition” to read “American Institute of Steel Construction (AISC) list Manual of Steel Construction - 13th Edition (or latest version)”

REV 2.2 *15 May 2007*

1. Revised major headings (4.0, 4.2, and 4.3) to match Table of Contents contained in 01010 Par 1.

2. Add publication year to Metal Building Manufacturers Association (MBMA) Metal Building Systems Manual for clarification.

3. Renumber items under heading 4.2 to match overall standard.

REV 2.1 *15 April 2007*

1. Paragraph 4.1,

   Corrected ADA Standards for Accessible Design reference.

   Added Metal Building Manufacturers Association reference.

   Added National Sanitation Foundation, International Food Equipment Standards.

Revised reference for FDA National Food Code

Revised LEED-NC reference to read as follows:

i. Green Building Rating System for New Construction & Major Renovations, Version 2.2

Added Application Guide for Multiple Buildings and On-Campus Building Projects to USGBC LEED reference

Removed MBNA-01 Low Rise Building Systems Manual

2. Paragraph 4.2,

(a) Technical Bulletin TB MED 530: Occupational and Environmental Health Food Sanitation.

REV 2.0 15 March 2007

1. Paragraph 4.1,

(a) revised latest effective dates of references from date of contract to date of solicitation, unless otherwise specified:

"Unless otherwise specified, criteria shall be taken from the most current references as of the date of the solicitation."

(b) Alphabetized organizations for consistency and clarity

(c) Added following references:

"Building Industry Consulting Service International

Telecommunications Distribution Methods Manual (TDMM)

Customer-Owned Outside Plant Design Manual (CO-OSP)"

IEEE:

"Recommended Practice for Powering and Grounding Sensitive Electronic Equipment, Standard 1100"

ANSI/ARI 430-99

(d) Revised titles of the following:

AISC Publication

Revised Title from EIA/TIA 607 to J-STD EIA/TIA 607

8. Paragraph 4.2,

(a) Alphabetized organizations and ordered UFC's numerically.

(b) Added reference: U.S. Army Information Systems Engineering Command (USAISEC) TG for the Integration of SECRET Internet Protocol (IP) Router Network (SIPRNET)

REV 1.4 *15 February 2007*

1. Added the Midwest Insulation Contractors Association published "National Commercial and Industrial Insulation Standards Manual" for mechanical insulation requirements.

2. Added four new references related to testing building envelope sealing (three ASTM and one ISO).

REV 1.3 *15 January 2007*

1. Added three 'Consumer Electronics Association' references to paragraph 4.1.

2. Added two 'LonMark International' references to paragraph 4.1.

REV 1.2 *22 December 2006*

1. Added the following to 4.1

   (a) ASHRAE Standard 62.1 Ventilation for Acceptable Indoor Air Quality.

   (b) SMACNA HVAC TAB HVAC Systems - Testing, Adjusting and Balancing

   (c) AABC Associated Air Balance Council Testing and Balance Procedures.

2. Added the following to 4.2

(a) Energy Policy Act of 2005 (Public Law 109-58)

REV 1.1 *15 October 2006*

1. Added paragraph 4.3, PRECEDENCE, to clarify that, in the event of conflict between References and/or between References and Applicable Military Criteria, the most stringent criteria apply:

   "4.3, PRECEDENCE

   In the event of conflict between References and/or Applicable Military Criteria, the most stringent requirement will apply, unless otherwise specifically noted in the contract."

REV 1.0 *15 May 2006*

1. Baseline Document

PARAGRAPH 5 – GENERAL TECHNICAL REQUIREMENTS

REV 2.2 *31 October 2012*

1. Added paragraph 5.4.6.5 Window Treatment: All exterior windows and interior windows are to receive either blinds, mini-blinds or roller shades in a color selected by the architect from the manufacturer's standard range of colors. Color shall compliment building's design theme. Maintain uniformity of treatment color and material to the maximum extent possible within a building. For all other window treatments and accessories (draperies, curtains, lining, sheers, rods, pulls), refer to Attachment A&B.

2. Added paragraph 5.4.6.6 Casework: Unless, otherwise specified, all casework for Cabinetry and cases shall be "custom grade", as described in the AWI Quality Standards

3. Added paragraph 5.12.4 CONSTRUCTION WASTE MANAGEMENT: A minimum of 60% of non hazardous construction and demolition waste material generated prior to the issuance of the final certificate of occupancy shall be diverted from discposal in landfills and incinerators by recycling and/or reuse. Reuse includes donation of materials ot charitable organization, salvage of existing materials onsite, and packaging materials returned ot the manufacturer, shipper, or other source that will reuse the packaging in future shipments. Excavated soil and land clearing debris shall not be included in the calculation. Calculations are allowed to be done by either weight or volume, but shall be consistent throughout. Specific area(s) on the construction site shall be designated for collection of recyclable and reusable materials. Off-site storage and sorting of materials shall be allowed. Civersion oefforts shall be tracked throughout the construction process.

REV 2.1 *30 April 2012*

1. Incorporates FY13 Army Design Criteria

REV 2.0 *31 March 2012*

1. Incorporates FY13 Army Design Criteria

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 1.47 *31 January 2012*

1. Paragraph 5.11.5, revised to add clarification that daylighting calculation is only for LEED NC version 2.2: "…(calculated in accordance with LEED NC version 2.2 credit EQ8.1)…"

REV 1.46 *15 December 2011*

1. Paragraph 5.5.2.10, Revised to say: "If garages under buildings are applicable, compartmentalize garages…"

REV 1.45 *30 September 2011*

1. Paragraph 5.8.3 for both BACNET and LONWORKS, clarified that DDC system is required for control of all HVAC systems, due to request by CELRL and CERL.

2. Paragraph 5.6.7, corrected "no urinal preference' option by adding: "Do not provide non-water type urinals for barracks type or other living spaces." This was included in the "non-water using urinal" option but inadvertently omitted from the no preference option.

REV 1.44 *31 July 2011*

1. Paragraph 5.6.8, added exception:

   "…Public lavatory faucets shall deliver a maximum flow rate of 0.5 gallons per minute, when tested in accordance with ASME A 112.18/CSA B125. Use that flow rate as the Baseline figure for calculating any required reductions from the Baseline."

2. Para. 5.7.5.1, corrected last sentence by removing “shall be provided”.

   “ANSI/ASHRAE/IESNA 90.1 has specific lighting controls requirements. See Also Appendix T, *Functional Area Lighting Control Strategy.”*

3. Para. 5.7.5.1 (e) revised:

4. Added above mentioned Appendix T.

5. Para. 5.8.2.3, revised last sentence to read: “In Air handlers that handle outdoor air and have fans that run continuously during the occupied mode, direct expansion cooling coils may be used only if the controls and compressor technology is provided that allows the compressor to operate down to 10% of full load without utilizing hot gas bypass to minimize the potential of delivering unconditioned outdoor air to the space.”

6. Para. 5.11.4 updated links to USACE LEED Commissioning Plan Template.

REV 1.43.1 31 May 2011

1. In addition to REV 1.43, Paragraph 5.6.7 revised to comply with ACSIM change to allow Installation to select urinal types which comply with ASHRAE Standard 189.1. Added 3 options: Non-Water Using, Water Using and No Preference.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

2. Paragraph 5.6.8, Revised plumbing Baseline for water reduction from IPC to Appendix S, Manufacturing Performance Requirements For Plumbing Fixtures From the Energy Policy Act of 1992.(Appendix S).

3. Paragraph 5.8.5, Commissioning. Corrected typos in the 3 options.

4. Paragraph 5.8.5, Commissioning. Commissioning Option 2 was revised to require the contractor to hire the ASHRAE Commissioning Agent. The Government will hire the LEED Commissioning Agent to perform the 25 duties required for ASHRAE Commissioning. The Government hired LEED Commissioning agent doesn’t have to be certified and is not responsible for planning and conducting the commissioning activities – The government hired LEED CxA is solely required in order to earn the LEED Enhanced commissioning EA3 credit under LEED v2009.

REV 1.43 30 April 2011

1. Paragraph 5.8.5, revised to include three options for enhanced commissioning. OPTION 1: The project is registered with USGBC under LEED Version 2.2. The Contractor will hire the Commissioning Agent and the project must earn LEED Credit EA3 for Enhanced Commissioning. OPTION 2: The project is registered under LEED Version 2.2 or higher. The Government will hire the Commissioning Agent and the Contractor will earn LEED Credit EA3 for Enhanced Commissioning. OPTION 3: The project is registered under LEED Version 3.0 or higher. The Contractor will hire the Commissioning Agent .The Project cannot earn LEED Credit EA3 for Enhanced Commissioning or use this as a LEED point to meet the required LEED Rating but the Contractor shall still perform LEED enhanced commissioning.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

2. Added paragraph 5.8.3.2 (i) "Provide on board nonvolatile memory for devices accumulating energy consumption."

3. Paragraph 5.8.3 for BACnet , deleted version date of ASHRAE 135.

REV 1.42 31 January 2011

1. Paragraph 5.5.2.8 has been updated to coordinate air barrier criteria with fire protection criteria per Bob Diangelo. In addition, the elevator shaft type louver required by IBC for smoke exhaust is to be controlled by the fire protection system. Other fixed open louvers, such as for emergency generators, should have dampers controlled by the equipment function.

   "Provide a motorized damper in the closed position and connected to the fire alarm system to open on call and fail in the open position for any fixed open louvers at elevator shafts. Coordinate the motorized elevator hoistway vent damper(s) with the Fire Protection System design in paragraph 5.10. Ensure that the damper(s) is accessible to facilitate regular inspection and maintenance."

2. Paragraph 5.5.2.9 was edited to require that atrium smoke exhaust and intakes only open when activated per IBC and other applicable Fire Code requirements.

3. Paragraph 5.5.2.12. (a), revised the term "Air Barrier Quality Assurance Plan" to "Air Barrier Quality Control Plan", to be consistent with nomenclature for Contractor "Quality Control", vs. "Government Quality Assurance".

4. Paragraph 5.8.2.5, revised Environmental Requirements for Telecommunications Rooms to add Telecommunications Equipment Rooms, to provide more details.

5. Paragraph 5.5.2, Deleted Reference to pending publication of 2010 version of ASHRAE 90.1.

6. Paragraph 5.5.2.12 (b), Revised testing from using either or both negative and positive pressure to requirement to test under both negative and positive pressure to comply with that in ECB 2009-29

REV 1.41 30 November 2010

1. Added paragraph 5.5.2.12. (a) and re-designated all subsequent subparagraphs:

   "(a) Develop an Air Barrier Quality Assurance plan to assure that a competent air barrier inspector/specialist inspects the critical components prior to them being concealed. At a minimum, three onsite inspections are required during construction to assure the completeness of the construction and design."

REV 1.40 31 October 2010

1. Titled paragraph 5.2.8, "EPA WATERSENSE PRODUCTS AND CONTRACTORS".

2. Added paragraph 5.6.11: "Cover all drain, waste and vent piping to prevent mortar or other debris from being flushed down and blocking pipes during such construction activities."

3. Added paragraph 5.3.5.7, “Casework: Unless, otherwise specified, all casework for Cabinetry and cases shall be “custom grade”, as described in the AWI Quality Standards.”

REV 1.39 30 September 2010

1. Para. 5.8.2.2, reworded only for clarity. ”High Humidity Areas: Design HVAC systems in geographical areas meeting the definition for high humidity in UFC 3-410-01FA to comply with the special criteria therein for humid areas.”

2. Added paragraph 5.10.6 Roof Access and designated existing para. 5.10.5, “Fire Protection Engineer Qualifications”, as 5.10.6.

   “ 5.10.5 Roof Access: Paragraph 2-9 of UFC 3-600-01 Fire Protection for Facilities will be modified in the next update to that UFC. Pending revision, comply with roof access and stairway requirements in accordance with the International Building Code. Where roof access is required by the IBC or other criteria, comply with UFC 4-010-01, Anti-Terrorist Force Protection, Standard 14, ‘Roof Access.’ “

3. Para. 5.10.3 Fire Extinguisher Cabinets, added clarification sentence: “The Government will furnish and install portable fire extinguishers, which are personal property, not real property installed equipment.”

REV 1.38 31 August 2010

1. Clarified introduction as to purpose and applicability of paragraph 5:

   “This paragraph contains technical requirements with general applicability to Army facilities. See also Paragraph 3 for facility type-specific operational, functional and technical requirements. Residential or similar grade finishes and materials are not acceptable for inclusion in these buildings, unless otherwise specifically allowed.”

2. Para. 5.2.3 added: “…and/or paragraph 6 and/or site plans, where applicable” to last sentence describing where to find minimum sidewalk requirements.

3. Para. 5.3.4.1, grammatical changes.

4. Numerous paragraphs, made grammar or passive to active voice edits.

5. Numbered 2nd paragraph under 5.3.6 COMPREHENSIVE INTERIOR DESIGN.

6. Paragraph 5.5.2, added clarification: “Pending the publication of the 2010 version of ASHRAE 90.1, the use of painted interior walls is not an acceptable air barrier method.” New edition will have this specifically pointed out, but painted walls don’t meet the performance requirements for building envelope sealing.

7. Para. 5.7.6.3, added after first sentence: “Provide adequate advanced notification to the COR to allow COR and Installation personnel attendance”

8. Paragraph 5.4.2, added second sentence:” Do not locate columns, for instance, in rooms requiring visibility, circulation or open space, including, but not limited to entries, hallways, common areas, classrooms, etc.”

9. Paragraph 5.4.3, LOADS, clarified that ancillary building items, e.g. doors, window jambs and connections, overhead architectural features, systems and equipment, bracing, ducting, piping, etc. must be designed for gravity, seismic, lateral loads

and for the requirements of UFC 4-010-01, DOD Minimum Antiterrorism Standards for Buildings.

10. Paragraph 5.8.2.1, added "…except where precluded by other project requirements" to end of the sentence "All Buildings with minimum LEED Silver requirement (or better) will earn LEED Credit EQ 7.1, Thermal Comfort-Design.,." Added new sentence: "Where the contract specifies indoor design temperature , airflow, humidity conditions, etc., use those parameters."

11. Paragraph 5.13 (c), added: "Unless determined otherwise by the Installation and noted in paragraphs 3 or 6, the building shall be considered to have areas of uncontrolled public access when designing for progressive collapse."

REV 1.37 31 July 2010

1. Paragraph 5.9.4, last sentence corrected number of systems to analyze from "three" to "two".

REV 1.36.2 30 June 2010

1. In addition to the REV 1.36 revisions of 31 May and REV 1.36.1 revisions of 16 Jun, see the following update below.

2. Para. 5.4.2 Structural Design – General, added:

   "Consider climate conditions, high humidity, industrial atmosphere, saltwater exposure, or other adverse conditions when selecting the type of cement and admixtures used in concrete, the concrete cover on reinforcing steel, the coatings on structural members, expansion joints, the level of corrosion protection, and the structural systems. Analyze, design and detail each building as a complete structural system. Design structural elements to preclude damage to finishes, partitions and other frangible, non-structural elements to prevent impaired operability of moveable components; and to prevent cladding leakage and roof ponding. Limit deflections of structural members to the allowable of the applicable material standard, e.g., ACI, AISC, Brick Industry Association, etc."

3. Para. 5.4.3 LOADS, added:

   "In addition to gravity, seismic and lateral loads, design the ancillary building items, e.g. doors, window jambs and connections, overhead architectural features, equipment bracing, for the requirements of UFC 4-010-01, DOD Minimum Antiterrorism Standards for Buildings. Ensure and document that the design of glazed items includes, but is not limited to, the following items under the design loads prescribed in UFC 4-010-01:

   (a) Supporting members of glazed elements, e.g. window jamb, sill, header
   (b) Connections of glazed element to supporting members, e.g. window to header
   (c) Connections of supporting members to each other, e.g. header to jamb
   (d) Connections of supporting members to structural system, e.g. jamb to foundation."

REV 1.36.1 16 June 2010

1. In addition to the REV 1.36 revisions of 31 May, see the Mid-June update to incorporate increased sustainability requirements below.

2. Paragraph 5.2.7.1, revised to prohibit any potable water use for irrigation (vs. previous requirement to reduce by 50%).

3. Para. 5.6.8, Revised to reduce building potable water use in each building 30 percent using IPC fixture performance requirements baseline (vs. previous 20% requirement). Deleted "…except where precluded by other project requirements".

4. Para. 5.8.2.1, added: "All Buildings with minimum LEED Silver requirement (or better) will earn LEED Credit EQ 7.1, Thermal Comfort-Design."

5. Para. 5.8.5, Commissioning. Revised "Fundamental" to "Enhanced" Commissioning. Revised to say "Hire the Commissioning Authority…" Revised to say "The CA will be an independent subcontractor and not an employee of the Contractor nor an employee or subcontractor of any other subcontractor on this project, including the design professionals (i.e., the DOR or their firm(s)). The CA will communicate and report directly to the Government in execution of commissioning activities." Added: "All buildings with Minimum LEED Silver (or better) requirement will earn LEED Credit EA3 Enhanced Commissioning."

6. Para. 5.9.2, revised energy reduction requirements from "30%" to "40%.

7. Paragraph 5.9.3, clarified to use FEMP designated products where FEMP is applicable to the type product.

REV 1.36 31 May 2010

1. Paragraph 5.2.3, added: "As applicable to the project."

2. Rewrote paragraph 5.7.5, Lighting to update references, add criteria for solid state and metal halide lighting, lighting controls and exterior lighting.

REV 1.35 30 April 2010

1. Para 5.6.8., deleted reference to 2006 edition of the International Plumbing Code per CCR 3334.

2. Paragraph 5.8.3. changed all references to "Directorate of Information Management" (DOIM) to the "Network Enterprise Center" (NEC) per CCR 3335.

3. Paragraph 5.8.2.5, telecommunication rooms HVAC environmental requirements, added the I3A in addition to ANSI/TI 569, per ISEC.

4. Paragraph 5.7.6, deleted reference to obsolete UFC 3-580-01 for telecommunications cabling design, per ISEC.

5. Paragraph 5.1.2.2, clarified "Where included in the project", dumpster pads shall be concrete… Some projects are excluding dumpster pads.

REV 1.34 31 March 2010

6. Paragraph 5.6.7, changed title to "URINALS". All urinals are to be non-water using type. No change to requirements, just renaming paragraph for additional clarity.

7. Paragraph 5.10.1, no change in meaning; slightly reworded to say: " Provide the fire protection system, conforming to APPLICABLE CRITERIA."

8. Paragraph 5.10.2, added Mass Notification System to list of systems to test. Obviously, the Contractor must test all systems installed, but this adds to the list of other Fire Protection systems.

9. Paragraph 5.8.2.5, deleted unnecessary reference to ANSI/TIA/EIA 569 B and Addendum B-1 for environmental conditions for Telecom Rooms. Latest version of document is applicable, including Addenda.

10. Paragraph 5.8.2.5, Added "(including SIPRNET ROOMS, where applicable for specific facility types)" to existing environmental requirements for Telecom rooms.

11. Paragraph 5.4.3. LOADS. Revised as follows: See paragraph 3 for facility specific (if applicable) and paragraph 6 for site and project specific structural loading criteria. Unless otherwise specified in paragraph 6, use Exposure Category C for wind. If not specified, use Category C unless the Designer of Record can satisfactorily justify another Exposure Category in its design analysis based on the facility Master Plan. Submit such exceptions for approval as early as possible and prior to the Interim Design Submittal in Section "Design After Award".

REV 1.33 28 February 2010

1. Paragraph 5.7.6.1, deleted unnecessary reference to ANSI/TIA/EIA 569, Addendum B-1. Latest version of document is applicable, including Addenda.

REV 1.32 31 January 2010

1. Added para. 5.8.2.6

   "Fire dampers: dynamic type with a dynamic rating suitable for the maximum air velocity and pressure differential to which the damper is subjected. Test each fire damper with the air handling and distribution system running."

2. Paragraph 5.6.7, clarified Note to Specifier that Non-Water Using Urinals are required for FY10 and later projects, not just FY10 projects.

REV 1.31 31 December 2009

1. Paragraph 5.11.3, made grammatical correction, "it's" to "its".

2. Paragraph 5.3.6 includes a paragraph 5.3.6.1 for the CID and an unnumbered paragraph for FFE. Added paragraph number 5.6.3.2 for FFE. Made minor grammatical edits to both subparagraphs to eliminate passive language and extraneous words. Added sentences to both to refer to Section 01 33 16 for SID and FFE design procedures, with Wizard instructions not to include paragraph 5.3.6.2 for UEPH.

REV 1.30 30 October 2009

1. Paragraph 5.2.3, rewrote sentence to active voice: …Design pavements for military tracked vehicles (as applicable to the project) IAW USACE PCASE...

2. Added paragraph 5.6.9:

   "Do not use engineered vent or Sovent® type drainage systems."

3. Added paragraph 5.6.10:

Where the seasonal design temperature of the cold water entering a building is below the seasonal design dew point of the indoor ambient air, and where condensate drip will cause damage or create a hazard, insulate plumbing piping with a vapor barrier type of insulation to prevent condensation. Do not locate water or drainage piping over electrical wiring or equipment unless adequate protection against water (including condensation) damage is provided. Insulation alone is not adequate protection against condensation. Follow ASHRAE Fundamentals Chapter 23, Insulation for Mechanical Systems, IMC paragraph 1107 and International Energy Conservation Code for pipe insulation requiremen

4. Para. 5.7.6.1, corrected titles of References, added “at least” to 2 year experience requirement for designer.

5. Added Para. 5.7.6.3,

   “Perform a comprehensive end to end test of all circuits to include all copper and fiber optic cables upon completion of the BCS and prior to acceptance of the facility. The BCS circuits include but are not limited to all copper and fiber optic (FO) entrance cables, termination equipment, copper and fiber backbone cable, copper and fiber horizontal distribution cable, and workstation outlets. Test in accordance with ANSI/EIA/TIA 568 standards. Use test instrumentation that meets or exceeds the standard. Submit the official test report to include test procedures, parameters tested, values, discrepancies and corrective actions in electronic format. Test and accomplish all necessary corrective actions to ensure that the government receives a fully operational, standards based, code compliant telecommunications system.”

REV 1.29 30 September 2009

1. Revised Paragraph 5.3.6 in its entirety.

2. Paragraphs 5.7.4 and 5.7.6, Changed all references to the “I3A” from “Guide” to Criteria”, consistent with the renamed and updated “Technical Criteria for Installation Information Infrastructure Architecture (I3A)”, per direction from ISEC This Criteria is mandatory.

3. Para. 5.7.4, revised second sentence from passive to active voice.

4. Added paragraph 5.1.2.6 Stormwater management per current implementation of EISA 2007 and EO 13423, sustainability requirements, as a result of a 16 September 2009 Sustainability meeting at HQUSACE to implement requirements.

5. Para. 5.1.3, added no smoking signage per sustainability requirements.

6. Added para. 5.2.7 Irrigation potable water use 50% reduction, per sustainability requirements.

7. Added 5.2.8, EPA WaterSense Products and Contractors per sustainability requirements.

8. Paragraph 5.3.5.5 added (8) No smoking signage.

9. para. 5.6.7 minor format edit.

10. Para 5.6.8 Added requirement for 20% Building water use reduction per Sustainability requirements.

11. Para. 5.9.1, 5.9.2, Energy Conservation, and subparagraphs: eliminated references to ASHRAE 90.1 -2004. Current edition is described elsewhere.

12. Added para. 5.9.5, Process wAter Conservation, per Sustainability requirements.

13. Added para. 5.9.6 Renewable Energy Features per sustainability requirements.

14. Extensive rewrite to paragraph 5.11 SUSTAINABLE DESIGN per Sustainability requirements.

15. Revised 5.11.2 and added 5.11.2.1 to refer to paragraph 6 for project specific LEED requirements.

16. Revised paragraph 5.11.3, OPTIMIZE ENERGY PERFORMANCE: "Project must earn, as a minimum, the points associated with compliance with paragraph ENERGY CONSERVATION. LEED documentation differs from documentation requirements for paragraph ENERGY CONSERVATION and both must be provided. For LEED-NC v2.2 projects you may substitute ASHRAE 90.1 2007 Appendix G in it's entirety for ASHRAE 90.1 2004 in accordance with USGBC Credit Interpretation Ruling dated 4/23/2008."

17. Added the following paragraphs: 5.11.5 DAYLIGHTING; 5.11.6 LOW-EMITTING MATERIALS; 5.11.7 CONSTRUCTION INDOOR AIR QUALITY MANAGEMENT; RECYCLED CONTENT; 5.11.8 RECYCLED CONTENT; 5.11.9 BIOBASED AND ENVIRONMENTALLY PREFERABLE PRODUCTS; 5.11.10 FEDERAL BIOBASED PRODUCTS PREFERRED PROCUREMENT PROGRAM (FB4P).

18. Added paragraph 5.8.2.5, Environmental Requirements for Telecommunications Rooms. Comply with ANSI/EIA/TIA 569-B and 569 ADDENDUM-B-1.

REV 1.28 31 August 2009

1. Para. 5.2.3.1, added "and parking areas" to "…Design roads and parking areas for a life expectance of 25 years with normal maintenance." Reference: UFC 3-250-18FA, paragraph 2-5.

2. Para. 5.2.3.1, added, "For concrete pavements, submit joint layout plan for review and concurrence." Site details aren't specifically addressed in Section 01 33 16, because an interim design submission isn't mandatory, so it may go into Section 01 10 00.

3. Added para. 5.4.4 TERMITE TREATMENT.

   "5.4.4 TERMITE TREATMENT (Except Alaska) Provide termite prevention treatment in accordance with Installation and local building code requirements, using licensed chemicals and licensed applicator firm.

REV 1.27 31 July 2009

1. Paragraph 5.7.6.1, tightened up the qualifications for Communications designer, removing the option for a person with 5 years related experience. The designer must be a registered communications designer with at least 2 years related experience.

REV 1.27 31 May 2009

1. Para. 5.4.2, added requirement for structural coordination and integration between modular units or other pre-fabricated construction with stick-built construction to fully coordinate and integrate the overall structural design between the two different or interfacing construction types

2. Paragraph 5.8.2.3, clarified ventilation requirements: . “Provide ventilation air from a separate dedicated air handling unit (DOAU) for facilities using multiple single zone fan-coil type HVAC systems.

3. Paragraph 5.9.4, Deleted reference to Life Cycle in Design Program for performing a life cycle cost analysis to determine whether or not 30% solar hot water for domestic use is life cycle cost effective (EISA 2007).

4. Paragraph 5.3.6: Revised for when UEPH is the facility type.

REV 1.26 30 April 2009

1. Revised paragraph, 5.8.5, Commissioning to read:

   COMMISSIONING: Commission all HVAC systems and equipment, including controls, and all systems requiring commissioning for LEED Fundamental commissioning, in accordance with ASHRAE Guideline 1.1<REV>, ASHRAE Guideline 0 and LEED. Do not use the sampling techniques discussed in ASHRAE Guideline 1.1 and in ASHRAE Guideline 0. Commission 100% of the HVAC controls and equipment. </REV> The Contractor shall hire the Commissioning Authority <REV>(CA)</REV>, certified as a <REV>CA</REV> by AABC, NEBB, or TABB, as described in Guideline 1.1. <REV>The CA will be an independent contractor and not an employee or subcontractor of the Contractor or any other subcontractor on this project, including the design professionals (i.e., the DOR or their firm(s)).</REV> The Contracting Officer’s Representative will act as the Owner’s representative in performance of duties spelled out under OWNER in Annex<REV> F of ASHRAE Guideline 0</REV>.

2. Added paragraph 5.8.2.4, due to repetitive requests for this in various paragraphs 6:

   “5.8.2.4 Locate all equipment so that service, adjustment and replacement of controls or internal components are readily accessible for easy maintenance.”

3. Revised paragraph 5.6.4:

   SIZING HOT WATER SYSTEMS: Unless otherwise specified or directed in paragraph 3, design in accordance with ASHRAE Handbook Series (appropriate Chapters), ASHRAE Standard 90.1, and the energy conservation requirements of the contract. <REV>Size and place equipment so that it is easily accessible and removable for repair or replacement.

4. Added new paragraphs 5.6.5 and 5.6.6 and moved Non-Waterless Urinals to paragraph 5.6.7:

   JANITOR CLOSETS: In janitor spaces/room/closets, provide at minimum, a service sink with heavy duty shelf and wall hung mop and broom rack(s).

   FLOOR DRAINS: As a minimum, provide floor drains in mechanical rooms and areas, janitor spaces/rooms/closets and any other area that requires drainage from fixtures or equipment, drain downs, condensate, as necessary.

5. Paragraph 5.8.2.3, deleted 5th sentence: “Where fan coils are used, provide a non-permeable wall covering behind the unit.”

REV 1.25 28 February 2009

1. Added paragraph 5.6.3,

   HOT WATER SYSTEMS: For Hot Water heating and supply, provide a minimum temp of 140 Deg F in the storage tank and a maximum of 110 Deg F at the fixture, unless specific appliances or equipment specifically require higher temperature water supply.

2. Added paragraph 5.6.4

   Sizing Hot Water Systems Unless otherwise specified or directed in paragraph 3, design in accordance with ASHRAE Handbook Series (appropriate Chapters), ASHRAE Standard 90.1, and the energy conservation requirements of the contract.

3. Moved Non-Water Using Urinals to paragraph 5.6.5.

REV 1.24 31 January 2009

1. Paragraph 5.2.3.1, Clarified minimum pavement thickness requirement: The minimum flexible pavement section shall consist of 2 inches of asphalt and 6 inches of base or as required by the pavement design, whichever is greater, unless specifically identified by the Government to be a gravel road.”

2. Paragraph 5.2.3.1, corrected reference to paragraph 6 for Traffic estimates:

   “Traffic estimates for each roadway area will be as shown on the drawings or listed in Section 01 10 00 Paragraph 6.4.4.”

REV 1.23 31 December 2008

1. Added “where applicable” to paragraph 5.2.3.2

2. Revised paragraph 5.2.5 to reference paragraph 6.4.6

3. Revised paragraph 5.8.5 to reference ASHRAE Guideline 1.1

4. Paragraph 5.11.2 added US Green Building Council to define acronym USGBC.

REV 1.22 30 November 2008

1. paragraph 5.11.2 LEED RATING AND VALIDATION, revised for mandatory LEED registration for FY 09 and beyond projects:

   LEED RATING AND VALIDATION Except where indicated otherwise in Paragraph PROJECT-SPECIFIC REQUIREMENTS, the following is required: The minimum requirement for the project is to achieve Silver level of Leadership in Energy and Environmental Design (LEED) rating. Each non-exempt facility (building plus sitework must achieve this level. The project is required to be registered with USGBC and use the LEED Letter Templates for project documentation. The LEED-NC Application Guide for Multiple Buildings and On-Campus Building Projects applies to all projects with multiple facilities. Solutions which conserve energy, and improve livability are encouraged. See Paragraph PROJECT-SPECIFIC

REQUIREMENTS for facilities that are exempt from the minimum Silver rating, for additional information on USGBC registration, for USGBC certification requirements and for other project-specific information. Solutions which conserve energy, and improve livability are encouraged.

2. Paragraph 5.11.4,

   COMMISSIONING. See paragraph 5.8.5 COMMISSIONING for commissioning requirements. USACE templates for the required Basis of Design document and Commissioning Plan documents are available at http://en.sas.usace.army.mil (click on Engineering Criteria) and may be used at Contractor's option.

3. Paragraph 5.2.3.2. (a) parking requirements, revised to read:

   "All handicap POV parking lots (where applicable in the facility specific requirements) shall meet the ADA and ABA Accessibility Guidelines for accessible parking spaces."

4. Paragraph 5.7.7, LIGHTNING PROTECTION SYSTEM: revised to read:

   "Provide a lightning protection system where recommended by the Lightning Risk Assessment of NFPA 780, Annex L."

5. Paragraph 5.3.3, previously designated as "DELETED". Changed title to "COMPUTATION OF AREAS. See APPENDIX Q for how to compute gross and net areas of the facility(ies)." This information is taken from Chapter 5 of UFC 0800-02.

6. Paragraph 5.9.4. added requirement for at least 30% solar domestic hot water heating per EISA 2007:

   "Solar Hot Water Heating. Provide at least 30% of the domestic hot water requirements through solar heating methodologies, unless the results of a Life Cycle Cost Analysis (LCCA) developed utilizing the Building Life Cycle Cost Program (BLCC) or the Life Cycle Cost in Design (LCCID) Program which demonstrates that the solar hot water system is not life cycle cost effective in comparison with other hot water heating systems. The type of system will be established during the contract or task order competition and award phase, including submission of an LCCA for government evaluation to justify non-selection of solar hot water heating. The LCCA uses a study period of 25 years and the Appendix K utility cost information. The LCCA shall include life cycle cost comparisons to a baseline system to provide domestic hot water without solar components, analyzing at least three different methodologies for providing solar hot water to compare against the baseline system."

7. Paragraph 5.1.2, Site Planning Objectives, added:

   5.1.2.1 Provide enclosures and or visual screening devices for Outdoor Utility such as dumpsters, emergency generators, transformers, heating, ventilation, and air conditioning units from streetscape and courtyard views to limit visual impact. Enclosures shall be compatible with the building they serve and accessible by vehicle. The location of dumpsters can have a significant visual impact and should be addressed as part of an overall building design and incorporated in site planning.

5.1.2.1 Dumpsters Pads shall be concrete (minimum of 8 inches thick on 4 inch base course, unless site conditions dictate more conservative requirements) and directly accessible by way of a paved service drive or parking lot with adequate overhead clearance for collection vehicles. Provide space at dumpster areas for recycling receptacles. Coordinate with Installation on recycling receptacle types, sizes and access requirements and provide space at dumpster areas to accommodate them.

5.1.2.2 Vehicular Circulation. Apply design vehicle templates provided by the American Association of State Highway and Transportation Officials (AASHTO) to the site design. The passenger car class includes passenger cars and light trucks, such as vans and pick-ups. The passenger car template is equivalent to the non-organizational – privately owned vehicle (POV). The truck class template includes single-unit trucks, recreation vehicles, buses, truck tractor-semi-trailer combinations, and trucks or truck tractors with semi-trailers in combination with full trailers. Provide vehicle clearances required to meet traffic safety for emergency vehicles, service vehicles, and moving vans. Provide required traffic control signage Site entrances and site drive aisles shall maximize spacing between drives, incorporate right-angle turns, and limit points of conflict between traffic.

Design Services Drives to restrict access to unauthorized vehicles by removable bollards, gates, or other barriers to meet Anti-Terrorism/Force Protection (ATFP) requirements. Orient service drives to building entrances other than the primary pedestrian entry at the front of the building.

5.1.2.3 Provide Emergency Vehicle Access around the facility and shall be in accordance with AT/FP requirements. Maintain a 33-foot clear zone buffer for emergency vehicles, designed to prevent other vehicles from entering the AT/FP standoff to the building.

5.1.2.4 Clear and grub all trees and vegetation necessary for construction; but, save as many trees as possible. Protect trees to be saved during the construction process from equipment.

8. Added paragraph 5.2.3.3 Sidewalks.

   “Design the network of walks throughout the complex to facilitate pedestrian traffic among facilities, and minimize the need to use vehicles. Incorporate sidewalks to enhance the appearance of the site development, while creating a sense of entry at the primary patron entrances to the buildings. Minimum sidewalk requirements are in Paragraph 3.”

REV 1.21 31 October 2008

1. Paragraph 5.4, Structural, revised paragraph 5.4.2 to be consistent with the proposal evaluation criteria for structural engineer qualifications and added 5.4.3:

   5.4.2 GENERAL: The structural system needs to be compatible with the intended functions and components that allows for future flexibility and reconfigurations of the interior space. <REV>Select an economical structural system based upon facility size, projected load requirements and local availability of materials and labor. Base the structural design on accurate, site specific geotechnical information and anticipated loads for the building types and geographical location. If the state that the project is located in requires separate, specific licensing for structural engineers (for instance, such as in Florida, California and others), then the structural engineer designer of record must be registered in that state.

5.4.3 LOADS: See paragraph 3 for facility specific (if applicable) and paragraph 6 for site and project specific structural loading criteria.</REV>

2. 5.7.6, Telecommunications Systems, added paragraphs 5.7.6.1 and 5.7.6.2 per ISEC:

   "5.7.6.1 Design, install, label and test all telecommunications systems in accordance with the I3A Guide and TIA/EIA 568, 569, and 606. A Registered Communications Distribution Designer (RCDD) with 2 yrs related experience or person with 5 yrs related experience shall develop and stamp telecommunications design, and prepare the test plan.

   5.7.6.2 The installers assigned to the installation of the telecommunications system or any of its components shall be regularly and professionally engaged in the business of the application, installation and testing of the specified telecommunications systems and equipment. Key personnel; i.e., supervisors and lead installers assigned to the installation of this system or any of its components shall be Building Industry Consulting Services International (BICSI) Registered Cabling Installers, Technician Level. Submit documentation of current BICSI certification for each of the key personnel. In lieu of BICSI certification, supervisors and installers shall have a minimum of 5 years experience in the installation of the specified copper and fiber optic cable and components. They shall have factory or factory approved certification from each equipment manufacturer indicating that they are qualified to install and test the provided products."

3. Paragraph 5.10, Fire Protection, added 5.10.5 for clarity and consistency with UFC 3-600-01:

   "5.10.5 Fire Protection Engineer Qualifications: In accordance with UFC 3-600-01, FIRE PROTECTION ENGINEERING FOR FACILITIES**,** the fire protection engineer of record shall be a registered professional engineer (P.E.) who has passed the fire protection engineering written examination administered by the National Council of Examiners for Engineering and Surveys (NCEES), or a registered P.E. in a related engineering discipline with a minimum of 5 years experience, dedicated to fire protection engineering that can be verified with documentation."

REV 1.20 30 September 2008

1. Paragraph 5.2.3, Cathodic Protection, clarified:

   "Provide cathodic protection systems for all underground metallic systems and metallic fittings/portions of non-metallic, underground systems, both inside and outside the building 5 foot line that are subject to corrosion."

2. Paragraph 5.1.4, EXTERIOR SIGNAGE, changed reference from "Installation Design Guide", to "Appendix H, Exterior Signage", since that Appendix now provides exterior signage requirements.

3. Paragraph 5.3.4.1, Building Numbers: Revised last sentence to change reference from IDG to Appendix H, Exterior Signage. "…Building number signage details and locations shall conform to Appendix H, Exterior Signage

4. Paragraph 5.3.4, BUILDING EXTERIOR, last sentence, deleted reference to Installation Design Guide for colors. Revised language to say: "Exterior colors shall conform to the Installation requirements. See paragraph 6."

5. Paragraph 5.0. General Technical Requirements, added “Residential or similar grade finishes and materials are not acceptable for inclusion in these buildings, unless otherwise specifically allowed”, in order to be consistent with the Proposal Evaluation Criteria in Sections 00 22 11, 00 22 20, 00 22 30, etc.

6. Paragraph 5.2.3.2 (a) Parking Requirements, changed references for handicap parking:

   “All handicap POV parking lots shall meet the ADA and ABA Accessibility Guidelines for accessible parking spaces.”

REV 1.19 29 August 2008

1. Paragraph 5.8.2.3 under “Design Conditions”, revised humidity control requirements:

   "…Design single zone systems and multi-zone systems to maintain an indoor design condition of 50% relative humidity for cooling only. For heating only where the indoor relative humidity is expected to fall below 20% for extended periods, add humidification to increase the indoor relative humidity to 30%."

2. Paragraph 5.2.3, VEHICLE PAVEMENTS, and paragraph 5.2.3.1, clarified that the criteria is “(as applicable for the project)”. Not all projects include pavement and not all facilities have tracked or tactical vehicle pavements

3. Paragraph 5.11.2 LEED RATING AND VALIDATION: Deleted requirement for solutions which conserve energy and improve livability to be justified by life cycle analysis. The RFP has a CCL and performance requirements for sustainability and energy conservation.

REV 1.18 31 July 2008

1. Paragraph 5.8.4, TESTING, ADJUSTING AND BALANCING. Added a requirement for the prime contractor to hire the TAB firm directly, not through a subcontractor. This was in the UFGS and is an idea endorsed by the PEO, which shouldn’t increase costs and which may reduce the likelihood of conflict of interest on the part of the TAB firm.

REV 1.17 30 May 2008

1. Paragraph 5.7, renamed from ‘ELECTRICAL SYSTEMS’ to ‘ELECTRICAL AND TELECOMMUNICATIONS SYSTEMS’

2. Paragraph 5.3.5.6, revised to read:

   “Window Treatment: Interior window treatments with adjustable control shall be provided in all exterior window locations for control of day light coming in windows or privacy at night. Uniformity of treatment color and material shall be maintained to the maximum extent possible within a building”

3. Paragraph 5.13 (e): clarified that this requirement is only applicable to facilities with mailrooms, not that mailrooms are required in all facilities.

   “<REV>For facilities with mailrooms – mailrooms</REV> have separate HVAC systems and are sealed from rest of building.”

4. Moved the details of the geotechnical report requirements from paragraphs 5.2.2.2 and 5.2.2.3 to Section 01 33 16, *Design after Award,* paragraph 3.5.3. This is procedural information for the design process, not technical design criteria.

REV 1.16 30 April 2008

1. Paragraph 5.8.2.1 Changed to read: Outdoor and indoor design conditions shall be in accordance with UFC 3-410-01FA. <REV>Outdoor air and exhaust ventilation requirements for indoor air quality shall be in accordance with ASHRAE 62.1. </REV>

2. Revised paragraph 5.9:

   5.9.1 Deleted first sentence

   Replacing with: "The building including the building envelope, HVAC systems, service water heating, power, and lighting systems shall meet the Mandatory Provisions and the Prescriptive Path requirements of ASHRAE 90.1-2004. Substantiation requirements are defined in Section 01 33 16, Design After Award."

   Moved remaining portion of 5.9.1 to 5.9.2: "Design the buildings, including the building envelope, HVAC systems, service water heating, power, and lighting systems to achieve an energy consumption that is at least 30% below the consumption of a baseline building meeting the minimum requirements of ANSI/ASHRAE/IESNA Standard 90.1-2004…"

   Moved 5.9.2 to 5.9.3: "The contractor shall purchase Energy Star or FEMP designated products. The term "Energy Star product" means a product that is rated for energy efficiency under an Energy Star program…."

REV 1.15 28 March 2008

1. Paragraph 5.9., clarified in addition to the requirement that the building must designed to achieve an energy consumption that is at least 30% below the consumption of a baseline building meeting the minimum requirements of ANSI/ASHRAE/IESNA Standard 90.1-2004, but that it also must be designed to comply with ANSI/ASHRAE/IESNA 90.1.

REV 1.14 18 January 2008

1. Paragraph 5.7.6, deleted the word "draft" in reference to UFC 3-580-01, Telecommunications Bldg Cabling Systems Planning/Design.

REV 1.13 15 December 2007

1. Corrected references to "chapter 6" to read "paragraph 6" in paragraphs 5.1.2 and 5.1.5.

2. Paragraph 5.7.6, eliminated exception for fiber optics in UEPH's.

3. Corrected auto-numbering errors in paragraphs 5.10 FIRE PROTECTION and 5.11, SUSTAINABLE DESIGN.

4. Paragraph 5.2.3.1, clarified that the geotechnical report is the Contractor's geotechnical report required by paragraph 5.2.2.2 and Section 01 33 16.

5. Paragraph 5.2.2.2, revised from passive to active voice for clarity and brevity.

6. Paragraph 5.2.4, although it should be obvious, clarified that cathodic protection is for underground metallic systems or metallic portions of non-metallic underground systems.

7. Added following to end of paragraph 5.7.6: "All telecommunications systems shall be designed, installed, labeled and tested in accordance with the I3A Guide and TIA/EIA 568, 569, and 606."

REV 1.12 15 November 2007

1. Revised paragraph 5.2.4 to read: "CATHODIC PROTECTION: Provide cathodic protection systems for all underground systems, both inside and outside the building 5 foot line. Coordinate final solutions with the installation to insure an approach that is consistent with installation cathodic protection programs."

2. Added paragraph 5.6.2, PRECAUTIONS FOR EXPANSIVE SOILS

   "5.6.2 PRECAUTIONS FOR EXPANSIVE SOILS: Where expansive soils are present, the design for underslab piping systems and underground piping serving chillers, cooling towers, etc, shall include features to control forces resulting from soil heave. Some possible solutions include, but are not necessarily limited to, features such as flexible expansion joints, slip joints, horizontal offsets with ball joints, or multiple bell and spigot gasketed fittings. For structurally supported slabs, piping should be suspended from the structure with adequate space provided below the pipe for the anticipated soil movement."

3. Revised last sentence of paragraph 5.9.2 to read:

   "When selecting integral sized electric motors, choose NEMA PREMIUM type motors that conform to NEMA MG 1, minimum Class F insulation system. Motors with efficiencies lower than the NEMA PREMIUM standard may only be used in unique applications that require a high constant torque speed ratio (e.g., inverter duty or vector duty type motors that conform to NEMA MG 1, Part 30 or Part 31)."

4. Added option for non-water using urinals for FY09 and earlier projects. They are mandatory for FY10 projects per IMCOM. Added new optional paragraph 5.6.3 and note to specifier:

   "NOTE TO SPECIFIER: PER ACSIM, ALL MILCON CONSTRUCTION FUNDED FOR FY 10 MUST USE NON-WATER USING URINALS, UNLESS IMCOM APPROVES AN INSTALLATION WAIVER. FOR FY 09 AND PRIOR YEAR PROJECTS, THE INSTALLATION MAY OPTIONALLY REQUIRE NON-WATER USING URINALS. SPECIFY HERE, NOT IN PARAGRAPH 6.]

   5.6.3 NON-WATER USING URINALS: Urinals shall be vitreous china, wall-mounted, wall outlet, non-water using, with integral drain line connection, and with sealed replaceable cartridge or integral liquid seal trap. Either type shall use a biodegradable liquid to provide the seal and maintain a sanitary and odor-free environment. Install, test and maintain in accordance with manufacturer's recommendations. Slope the sanitary sewer branch line for non-water use urinals a minimum of 1/4 inch per foot. Do not use copper tube or pipe for drain lines that connect to the urinal outlet. Manufacturer shall provide an operating manual and on-site training to installation operations personnel for the proper care and maintenance of the urinal.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

5. Paragraph 5.8.1, TESTING, ADJUSTING AND BALANCING, in the first sentence added “or the” before “Testing Adjusting, and Balancing Bureau (TABB)” to correct a typographical error. The TAB firm must be certified by one of three organizations, not all three.

6. Paragraph 5.8.2, deleted the Table 5-1 Indoor Design Conditions and revised the text for all three subparagraphs. Indoor and outdoor design conditions reference UFC 3-410- 01FA. Design systems in high humidity areas, as defined in the UFC, in accordance with the special criteria for humid areas therein.

7. Extensively revised paragraph 5.5.2, BUILDING ENVELOPE SEALING PERFORMANCE REQUIREMENT.

8. Extensively revised paragraph 5.8.2, DESIGN CONDITIONS.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

9. Paragraph 5.7.6, removed exemption for not providing fiber optics in barracks/apartments. Fiber optics are required in these facility types.

10. Corrected paragraph and subparagraph numbering for Paragraph 5.10 “Fire Protection” and 5.11 “Sustainable Design”.

REV 1.11 15 October 2007

1. Paragraph 5.1.1, added wording: “The site planning and design shall conform to APPLICABLE CRITERIA<REV> and to paragraph 6, PROJECT SPECIFIC REQUIREMENTS</REV>.”

2. Paragraph 5.13 (d) Mass notification systems, added criteria reference to UFC 4-021-01, Mass Notification Systems.

3. Paragraph 5.2.3.2(b), revised minimum parking space design criteria to a minimum of 9 feet by 18 feet, designer to design for the appropriate vehicles:

   “(b) Design POV parking spaces for the type of vehicles anticipated, but shall be a minimum of 9 ft by 18 ft for POVs, except for two wheel vehicles.”

4. Paragraph 5.2.2.2, corrected third sentence to read:

   “The Contractor’s geotechnical report shall recommend foundation systems to be used, allowable bearing pressures for footings, lateral load resistance capacities for foundation systems, elevations for footings, grade beams, slabs, etc.”

5. Paragraph 5.2.2.2, corrected grammar in second sentence to read:

   “This report shall summarize the subsurface conditions<REV> and</REV> provide recommendations for the design of appropriate foundations, floor slabs, retaining walls, embankments, and pavements.”

6. Paragraph 5.7.5.1, corrected the Color Rendering Index for compact fluorescent lighting.

" …Interior lighting shall utilize electronic ballast and energy efficient fluorescent lamps with a Correlated Color Temperature of 4100K. Compact fluorescent fixtures shall have a Color Rendering Index of (CRI) of 82 or higher. Linear fluorescent fixtures shall have a CRI of 85 or higher. …

REV 1.10 15 September 2007

1. Retained the 01 September marked revisions to assure visibility of those revisions within the same month.

2. Added the following to Paragraph 5.5.2:

   "…… Dining, barracks*, and instructional/training facilities* with a continuous air barrier to control*……*"

3. Added paragraph 5.10.4, Fire alarm and detection system

   "Fire alarm and detection system: Required fire alarm and detection systems shall be the addressable type. Fire alarm initiating devices, such as smoke detectors, heat detectors and manual pull stations shall be addressable. When the system is in alarm condition, the system shall annunciate the type and location of each alarm initiating device. Sprinkler water flow alarms shall be zoned by building and by floor. Supervisory alarm initiating devices, such as valve supervisory switches, fire pump running alarm, low-air pressure on dry sprinkler system, etc. shall be zoned by type and by room location."

REV 1.9 01 September 2007

1. Revised 5.2.2.2, last sentence. Add "and the" after "…groundwater control …" and before "…possible presence…"

2. Deleted paragraph placeholders for 5.8.3.11 and 5.8.3.12.

3. Revised last sentence of Paragraph 5.7.5.1 to read "An un-switched fixture with emergency ballast shall be provided at each entrance to the building" instead of "An un-switched fixture with emergency ballast shall be provided at the entrance to each vault."

4. Paragraph 5.9.1: Removed the following sentences from the end of the paragraph:

   Base the selection of solutions and technologies to achieve the above energy performance requirements on life cycle cost analysis. Life Cycle Cost Analyses shall follow the requirements set forth in NIST Handbook 135 Life-Cycle Costing Manual using an automated calculation tool such as BLCC. Cyclical and annual maintenance costs used shall come from ASHRAE recommendations or other similar Industry Standard sources.

REV 1.8 15 August 2007

1. Revised all references from old numbering system to Master Format 2004

2. An option has been added to waive the requirement for providing underdrain systems for pavement design. If waived, "Provide underdrain systems for pavement designs over cohesive soil subgrades" sentence will be removed from Paragraph 5.2.3.1

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 1.7 25 May 2007

1. Paragraph 5.22, Soils, added subparagraph numbers and added further clarification regarding the basis for any differing site condition adjustment:

   "The basis for the adjustment would be the design and construction appropriate for the conditions described in the Government furnished report or the reasonably expected conditions, in comparison with any changes required by material differences in the actual conditions encountered, in accordance with the terms of contract clause Differing Site Conditions."

2. Paragraph 5.2.3 renamed VEHICLE PAVEMENTS to distinguish from airfield pavements, which are not included in this specification. Revised the requirements for design procedures and minimum pavement thickness per USACE Headquarters team revisions.

3. Moved parking requirements up from paragraph 5.2.4 to 5.2.3.2 under Vehicle Pavements paragraph.

4. Paragraph 5.8.2 DESIGN CONDITIONS, re-formatted and numbered the subparagraphs.

5. Paragraph 5.8.3, BUILDING AUTOMATION SYSTEM, re-formatted and numbered the subparagraphs. Sub paragraphs 5.8.3.9 and 5.8.3.10, clarified referral to the building automation system for specific warranty and training requirements.

6. Paragraph 5.8.5, COMMISSIONING, added clarified to first sentence to read:

   "Commission all HVAC systems and equipment, including controls, and all systems requiring commissioning for LEED Fundamental commissioning, in accordance with ASHRAE Guideline 1 and LEED. "

7. Paragraph 5.11.2, LEED RATING AND VALIDATION, added back a sentence mistakenly deleted the previous month:

   "Contractor has the option to register the project and use LEED online Letter Templates. In this case, payment of fees and administration of the online project will be by the Contractor. "

8. Deleted paragraph 5.11.4, Construction Waste Management LEED credit MRc2. This credit is no longer mandatory, even though construction waste management is mandatory. Contractor may still earn LEED Credits for it.

9. Added separate paragraph 5.12, CONSTRUCTION AND DEMOLITION (C&D) WASTE MANAGEMENT, in place of LEED requirement. Two options provide for 1) mandatory 50% waste diversion or 2) a lower percentage requirement, upon approval of a waiver from ACSIM to the mandatory 50% waste reduction policy.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

10. Moved SECURITY (ANTI-TERRORISM STANDARDS) from discussion under reference paragraph 4.2 in Section 01010, Paragraph 4 to new paragraph 5.13.

11. Revised paragraph 5.2.5 UTILITIES:

    "5.2.5 UTILITIES: See paragraph 6.4.2 for specific information on ownership of utilities and utility requirements. Meter all utilities (gas, water, electric, as applicable) to each facility. For Government owned utilities, install meters that are wireless data transmission capable as well as have a continuous manual reading option. All meters will be capable of at least hourly data logging and transmission and provide consumption data for gas, water, and electricity. Gas and electric meters will also provide demand readings based on consumption over a maximum of any 15 minute period. Configure all meters to transmit at least daily even if no receiver for the data is currently available at the time of project acceptance. For privatized utilities, coordinate with the privatization utility(ies) for the proper meter base and meter installation. "

    NOTE: Entry fields/questions were removed from the Wizard to accommodate this revision.

REV 1.6 15 April 2007

1. Paragraph 5.2.2, Soils, to clarify that the Differing Site Conditions clause relieves the risk of a differing site condition, if the supplemental soils investigation done after award reveals site conditions differing from those indicated in the government's preliminary soils report or from reasonably anticipated conditions, requiring changes to the design.

2. Paragraph 5.9.1, ENERGY CONSERVATION, delete reference to LCCID as a life cycle analysis tool. It is no longer maintained or supported by USACE.

3. Added paragraph 5.7.3.1 under Power Service to provide for spare capacity in the panelboards.

   "5.7.3.1 Spare Capacity: Provide 10% space for future circuit breakers in all panelboards serving residential areas of buildings and 15% spaces in all other panelboards."

4. Paragraph 5.11.2, added the following sentence:

   "The LEED-NC Application Guide for Multiple Buildings and On-Campus Building Projects applies to all projects with multiple facilities."

5. Paragraph 5.11.2, deleted the following sentence (Army does not want to pay more for LEED certification, if it means sacrificing material or systems quality):

   "Contractor has the option to register the project and use LEED online Letter Templates. In this case, payment of fees and administration of the online project will be by the Contractor."

6. Paragraph 5.11.5, added "(click on Engineering Criteria)" after website identification.

REV 1.5 15 March 2007

1. Edited wording in paragraph 5.11 concerning mandatory and preferred LEED Credits.

2. Added paragraph 5.10.3, concerning portable fire extinguisher cabinets.

3. Revised paragraph 5.11.5:

   "COMMISSIONING. See paragraph 5.8.5 COMMISSIONING for commissioning requirements. USACE templates for Basis of Design document and Commissioning Plan document are available at http://en.sas.usace.army.mil and may be used at Contractor's option."

4. Changed reference in paragraph 5.8.3, ANSI/EIA 709.1B to ANSI/CEA 709.1B

5. Paragraph 5.2.2; added following text to the end of the first paragraph:

   If differences between the Contractor's additional subsurface investigation and the government provided soils report or the reasonably expected conditions require material revisions in the design, an equitable adjustment may be made, in accordance with the provisions of the Differing Site Conditions clause.

REV 1.4 15 February 2007

1. Added a note to paragraph 5.2.3, PAVEMENT, that traffic signage and pavement markings shall comply with the Installation requirements and with the Manual on Uniform Traffic Control Devices.

2. Revised paragraph 5.5.1 STANDARDS AND CODES to add requirement for thermal insulation for mechanical systems to conform to the Applicable Criteria. Will add "National Commercial and Industrial Insulation Standards Manual" to the Chapter applicable criteria.

3. Made extensive revisions to paragraph 5.11, SUSTAINABLE DESIGN: Revised 5.11.2, renamed 5.11.3 from "Construction Waste Management" to "Mandatory LEED Credits", and added 3 mandatory credits: "EAc1 Optimize Energy Performance", "MRc2.1 Construction Waste Management (50% diversion)" and "IDc2 LEED Accredited Professional." Added paragraph 5.11.4, "COMMISSIONING". Added note for installations or projects obtaining a waiver to the 50% ACSIM mandated waste reduction requirement.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

4. Added new paragraphs 5.5.2 and 5.5.2.1 under 5.5, Thermal Performance, which add building envelope sealing performance requirements, performance criteria and substantiation requirements.

REV 1.3 25 January 2007

1. Paragraph 5.2.5., UTILITIES, created two options for metering and added note for the Specifier to select the first for Government-owned utilities and the second for Privatized utilities.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

2. Paragraph 5.8.2, DESIGN CONDITIONS, corrected reference to ASHRAE document 62.1.

3. Paragraph 5.8.3, BUILDING AUTOMATION SYTEM, generally updated and re-written.

4. Paragraphs 5.8.4, TESTING, ADJUSTING AND BALANCING; 5.8.5, COMMISSIONING; 5.10, FIRE PROTECTION, edited to reduce or eliminate the passive voice. Also, added reference to LEED commissioning.

5. Paragraph 5.9.1, under Energy Conservation, revised discussion of Epact 2005 energy savings requirements to discuss LCCA requirements.

6. Paragraph 5.2.2, Soils, clarified that the report is available to the Contractor for design and if it needs further borings due to specific foundation locations, it shall perform such at no additional cost. This is only a clarification; it is not intended to negate the Differing Site Condition clause, if additional borings reveal different conditions for the specific design layout.

   "SOILS: A report has been prepared to characterize the subsurface conditions at the project site and is **appended to these specifications.** The report provides a general overview of the soil and geologic conditions with detailed descriptions at discrete boring locations. The Contractor's team shall include a licensed geotechnical engineer to interpret the report and develop earthwork and foundation recommendations and design parameters in which to base the contractor's design. If any additional subsurface investigation or laboratory analysis is required to better characterize the site or develop the final design, the Contractor shall perform it under the direction of a licensed geotechnical engineer. There will be no separate payment for the cost of additional tests."

REV 1.2 22 December 2006

1. In paragraph 5.8.4 changed TABB from "Testing and Balancing Bureau" to the "Testing, Adjusting, and Balancing Bureau.

REV 1.1 27 September 2006

1. Paragraph 5.3.3., Programmable Key Card Electronic Access Systems, was deleted and revised requirements were moved to Paragraph 6.

REV 1.0 15 May 2006

1. Baseline Document

PARAGRAPH 6 – PROJECT SPECIFIC REQUIREMENTS

REV 2.9 31 March 2010

1. Paragraph 6.14.5, Green Power, added: "Do not purchase Renewable Energy Credits (REC's) to earn this credit."

REV 2.8 30 Septebmer 2009

1. Paragraph 6.12 Energy Conservation, added Inclusion of Renewable Energy Features to meet new Sustainability Requirements.

2. Paragraph 6.14 rewritten to allow option of either LEED 2.2 or LEED 3.0, per updated requirements.

REV 2.7 *31 August 2009*

1. Paragraph 6.5.2.2, Re-designated subparagraphs 1-6 as (a) through (f); sub (c), spelling correction to word "identified"; sub (f), revised to: "Meets the Specified Sustainable Design and LEED requirements."

REV 2.6 *31 July 2009*

1. Moved Physical Fitness Facility Table and information to Paragraph 2.1.

REV 2.5 *31 May 2009*

1. Paragraph 6.4.5, changed title to Traffic Signage and Pavement Markings

2. Revised Physical Fitness space requirements table.

REV 2.4 *30 April 2009*

1. Paragraph 6.4.6, Base Utility Information, added data input fields for sewer, water, electrical, gas and cable TV.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

2. Paragraphs 6.9 Site Electrical and Telecommunications and 6.10 Facility Electrical and Telecommunications, added additional data fields for site and facility telecommunications to separate from site and facility electrical. Note: Future update will separate Telecommunications from Electrical, but will require renumbering all subsequent paragraphs. Due to reviews of draft installation specific paragraphs 6, this would be too disruptive, right now.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

3. Paragraph 6.4.9 is now Haul Routes and Staging Areas.

REV 2.3 *28 February 2009*

1. Added "Telecommunications" to names of to paragraphs 6.9 and 6.10:

   6.9 Site Electrical and Telecommunications

   6.10 Facility Electrical and Telecommunications

REV 2.2 *31 January 2008*

1. Paragraph 6.5.2.3, second sentence, changed "harmonies" to harmonious".

2. Deleted 6.5.2.6, Exterior Signage and moved 6.5.2.7, Additional Architectural Requirements up to 6.5.2.6. Exterior signage is addressed in paragraph 5.1.3.

3. Para. 6.5.2.3, deleted last sentence: "Site and architectural drawings that meet this objective are shown in appendix J." Appendix F addresses the desired theme.

REV 2.1 *31 December 2008*

1. Removed [THEME_DESCRIPTION] from Paragraph 6.5.2.1

2. Revised last sentence of Paragraph 6.5.2.3 slightly to accommodate [THEME_DESCRIPTION].

REV 2.0 *30 November 2008*

1. General update to paragraph 6.14, Sustainable design, LEED requirements for FY 09 require mandatory USGBC registration requirements as default.

2. General update to paragraph 6.3 Site Plans, 6.4 Site Engineering, and 6.5 Architecture.

   NOTE: New entry fields/questions were added to the Wizard to accommodate the revision above.

REV 1.9 *30 September 2008*

1. Paragraph 6.1, General, revised to state:

   "The requirements of this paragraph augment the requirements indicated in Paragraphs 3 through 5."

2. Paragraph 6.5.1, General (under Architecture), added:

   ***NOTE TO SPECIFIER**: Either refer to a document that has been approved by the IMCOM Regional Commander or preferably extract the information and describe below.*

   To the maximum extent possible within the contract cost limitation, the buildings shall conform to the look and feel of the architectural style expressed herein, shall use the same colors as adjacent facilities <EXISTING_DOCUMENT>shown in [EXISTING_DOC_DESCRIPTION]</EXISTING_DOCUMENT><THEME_DESCRIPTION>as described below:
   [THEME_DESCRIPTION]

   </THEME_DESCRIPTION><IMCOM_APPROVED>and shall conform with the Fort [INSTALLATION_NAME] Real Property Master Plan.</IMCOM_APPROVED> The Government will evaluate the extent to which the proposal is compatible with the architectural theme expressed in the RFP during the contract or task order competition. The first priority in order of importance is that the design provides comparable building mass, size, height, and configuration compared to the architectural theme expressed herein. The second priority is that design is providing compatible exterior skin appearance based upon façade, architectural character (period or style), exterior detailing, matching nearby and installation material/color pallets, as described herein.

   NOTE: New entry fields/questions were added to the Wizard to accommodate the revision above.

   NOTE TO SPECIFIER: If photos are to be included, answer yes to the question, which refers the reader to Appendix F for photos of surrounding buildings

<APPENDIX_F>See Appendix F for photos of surrounding buildings
</APPENDIX_F>

NOTE: New entry fields/questions were added to the Wizard to accommodate the revision above.

See APPENDIX H Exterior Signage with building and base signage requirements.

Interior building signage requirements [INTERIOR_SIGNAGE]

3. Paragraph 6.5.2, Programmable Electronic Key Card Access Systems, added will not be used for UEPH projects

NOTE: New entry fields/questions were added to the Wizard to accommodate the above revision.

REV 1.8 *30 April 2008*

1. Revised paragraph 6.14.1 to read as follows:

   LEED Minimum Rating Exempt Facilities: In addition to any facilities indicated as exempt in paragraph 3, the following facilities are exempt …."

2. Paragraph 6.5 Architecture added Physical Fitness Program Areas table. This table will only display if the Physical Fitness Facility is selected on the Facility Type page.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 1.7 *15 November 2007*

1. Paragraph 6.11 HVAC has been revised.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 1.6 *15 September 2007*

1. Paragraph 6.14 Sustainable Design has been revised. Please see Chapter 6 of the MT Implementation guide for full description.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 1.5 *15 June 2007*

1. Added new paragraph for Interior Design requirements. This is placed under the ARCHITECTURE heading and is numbered 6.5.3

REV 1.4 *15 April 2007*

1. Paragraph 6.14.2, revised to eliminate option of LEED Certification. Army does not want to pay for Certification, if it would be at the expense of quality of systems or materials.

"6.14.2 Credit Validation: ~~[The project will be certified by USGBC for validation of credits earned. Payment of fees and administration of the online project will be by [the Contractor.] [the Government.]]~~ [The project is required to be registered with USGBC and use LEED online Letter Templates. Payment of fees and administration of the online project will be by [the Contractor.] [the Government.]]"

REV 1.3 15 February 2007

1. Revised paragraph 6.14 SUSTAINABLE DESIGN in its entirety.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

"6.14 SUSTAINABLE DESIGN

6.14.1 LEED Minimum Rating Exempt Facilities: The following facilities are exempt from the minimum Silver requirement: [ ] [none].

6.14.2 Credit Validation: [The project will be certified by USGBC for validation of credits earned. Payment of fees and administration of the online project will be by [the Contractor.] [the Government.]] [The project is required to be registered with USGBC and use LEED online Letter Templates. Payment of fees and administration of the online project will be by [the Contractor.] [the Government.]]

6.14.3 Commissioning: See Appendix [ ] for Owner's Project Requirements document(s).

6.14.4 LEED Credits Coordination. The following information is provided relative to Sustainable Sites and other credits.

SS Credit 1 Site Selection:

Project site [is] [is not] considered prime farmland.

[Project site is five feet or more above 100-year flood elevation.] [Delineation of 100-year flood elevation is shown on site drawings provided in this CONTRACT.]

[Project site contains no habitat for threatened or endangered species.] [Delineation of threatened or endangered species habitat is shown on site drawings provided in this CONTRACT.]

[No portion of project site lies within 100 feet of any water, wetlands or areas of special concern.] [Delineation of water, wetlands and areas of special concern is shown on site drawings provided in this CONTRACT.]

Project site [was not] [was] previously used as public parkland.

SS Credit 2 Development Density & Community Connectivity.

Project site [does] [does not] meet the criteria for this credit.

SS Credit 3 Brownfield Redevelopment.

Project site [does] [does not] meet the criteria for this credit.

SS Credit 4.1 Public Transportation Access.

Project site [does] [does not] meet the criteria for this credit.

EA Credit 6 Green Power.

50% of the project's electricity [will] [will not] be provided through an Installation renewable energy contract.

MR Credit 2 Construction Waste Management. The Installation [does not have an on-post recycling facility available for Contractor's use.] [has an on-post recycling facility. Contact [ ] for information about materials accepted.]

6.14.5 LEED Credit Preferences, Guidance and Resources. See Appendix [ ] LEED Project Credit Guidance for supplemental information relating to individual credits."

REV 1.2 25 January 2007

1. Paragraph 6.11, HEATING, VENTILATING, AND AIR CONDITIONING, added the following with notes to Specifier to select and fill in the blanks:

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

"[NOTE TO SPECIFIER: IF THE CONTRACTOR IS TO INSTALL UMCS M&C SOFTWARE, ENTER THE NUMBER OF CLIENT SOFTWARE PACKAGES/LICENSES BASED ON THE INSTALLATIONS EXPECTED NEED/USAGE]:

[Provide M&C Software with a license for no less than [___] clients]

[NOTE TO SPECIFIER: IF THE CONTRACTOR IS TO INSTALL UMCS M&C SOFTWARE, ENTER THE NUMBER OF POINTS BASED ON EXPECTED SIZE OF SYSTEM]:

[Provide M&C Software with a license for no less than [___] points]"

REV 1.1 27 September 2006

1. Paragraph 6.5.1 under Architecture, moved the requirement for Programmable Key Card Electronic Access Systems from paragraph 5. Per 21 February 2006 Keyless Lock Policy, these card access systems are only mandatory for Unaccompanied Enlisted Personnel Housing, Transient Lodging, and Bachelor Officers Quarters. If an installation wants them in other facilities, it may purchase them with other funding. The RFP preparer must edit this paragraph, as applicable to their project.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 1.0 15 May 2006

1. Baseline Document

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 6 – PROJECT SPECIFIC REQUIREMENTS – FORT CAMPBELL (NEW VERSION ONLY)

REV 3.1 *15 December 2011*

1. Corrected minor typos.

REV 3.0 *31 July 2011*

1. Numerous general updates

REV 2.3 *30 September 2010*

1. Complete revision of paragraph 6.13, Fire Protection.

REV 2.2 *31 August 2010*

1. Paragraphs 6..4.11, (e) Landscaping and 6.4.12,2 Turf, added under Maintenance During Establishment Period:

   "If used, irrigation systems shall be for plant establishment only. Remove at the end of this period. Ft Campbell will not furnish potable water for irrigation."

REV 2.1 *30 June 2010*

1. Para. 6.3.3.2, updated point of contact information and added note referring to 6.15.2 for additional information.

2. Para.6.4.6.4, deleted "in accordance with paragraph 6.4.6.1(b)".

3. Para. 6.4.6.6(a), refer to I3A for cab;e television outlets.

4. Para. 6.6, added upper values for seismic criteria

5. Para. 6.9.3, changed rating for transformer from not less than 90% to not less than 110% of calculated demand load.

6. Para. 6.9.4, minor wording revisions.

7. Made several passive to active voice edits.

8. Para. 6.13.1, eliminated separate Mass Notification System for fire alarm system.

9. Para. 6.16.5 Minor edits and changed point of contact.

REV 2.0 *30 April 2010*

1. Paragraph 6.2.1, added USACE approved deviation for paragraph 6.12.1. There is no need to perform a life cycle cost analysis for or to install 30% solar domestic hot water heating, as required in paragraph 5.9.4. The Government has determined it not to be life cycle cost effective for Ft. Campbell, KY/TN.

2. Paragraph 6.12.1, moved existing paragraph to 6.12.2 and added new paragraph 6.12.1, General. "The Government has determined that 30% domestic solar hot water heating is not life cycle cost effective, therefore is not required. There is no need for proposers or the Contractor to perform life cycle cost analysis to justify including or excluding this feature."

3. Due to the multitude of additional editorial changes, this is a general Revision Number 2.0 to this document

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 1.2 *31 March 2010*

1. Paragraph 6.14.5, Green Power, added: "Do not purchase Renewable Energy Credits (REC's) to earn this credit."

REV 1.1 *31 December 2009*

1. Revised "DOIM" to "NEC" in various locations.

2. Added new paragraph 6.5.4.3 and FFE contact information for DPW Master Planner.

3. Para. 6.4.8, moved information to para. 6.4.9, Haul Routes.

REV 1.0 *31 October 2009*

1. Baseline Document

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 6 – PROJECT SPECIFIC REQUIREMENTS – FORT CARSON (NEW VERSION ONLY)

REV 3.1 *30 April 2012*

1. Paragraph 6.11, Added location for fill-in of outdoor design criteria per Section 01 10 00, paragraph 5.9.2 in accordance with paragraph 2.2 in UFC 3-410-1FA HVAC.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 3.0 *15 December 2011*

1. Due to the number of minor edits, this is a new Revision.

REV 2.1 *30 September 2011*

1. Paragraph 6.8.1.5., revised to read: "Urinals. Do not use copper pipe for urinal drain connections to the rest of the plumbing system. The Government prefers one pint flush type urinals."

   This allows the specifier to select urinal option of either non-water using or low flow fixtures, with a preference in paragraph 6 for one-pint urinals or to select the low flow urinal option with a preference for one-pint urinals. Copper pipe isn't allowed on either type urinal at Ft. Carson.

REV 2.0 *31 January 2011*

1. General revisions to site design, COMM requirements, other miscellaneous updates.

REV 1.4 *31 July 2010*

1. Paragraph 6.8.1.10, deleted fiberglass showers and indicated that they aren't preferred at Ft Carson COF.

REV 1.3 *30 April 2010*

1. Reformatted paragraph 6.11 to conform with standard the RFP paragraph numbering system.

2. Paragraph 6.11.1.6 (former para. 6.11.1, (f)), eliminated tag code per CCR 3316. The tag limited application to Battalion HQ ("BN") only. Revised sentence to now say:

   "If emergency generator(s) and/or UPS are included in the contract, provide the following information, as applicable, to the post Operations Contractor, including (but not limited to): equipment data sheets, written control sequences, IF files, and input/output points list. Eliminated subparagraph "(g)" designation.

3. Moved the listed requirements for emergency generators and UPS under this paragraph, as applicable to the specific project

4. Paragraph 6.11.2, deleted extraneous word "shall".

5. Paragraph 6.4.6.4.2 (2), deleted "…or 25 psig to 1 psig as directed", per CCR 3313.

6. Para. 6.11.1. 2 (b (formerly 6.11.1 (b)(2)), added: "Provide a WebUi to each installed JACE panel." Per CCR 3314.

7. Paragraphs 6.11.2.1. and 6.11.2.2 (formerly subparagraphs 6.11.2 (a) and (b)), replaced "deionized water" with "distilled or reverse osmosis water", per CCR 3317.

REV 1.2 *31 March 2010*

1. Paragraph 6.14.5, Green Power, added: "Do not purchase Renewable Energy Credits (REC's) to earn this credit."

REV 1.1 *31 December 2009*

1. Updated telecommunications requirements in paragraphs 6.9 and 6.10 per request of Installation after ISEC review.

REV 1.0 *31 October 2009*

1. Baseline Document

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 6 – PROJECT SPECIFIC REQUIREMENTS – JOINT BASE LEWIS/MCCHORD (NEW VERSION ONLY)

REV 2.1 *30 April 2011*

1. Paragraph 6.5.2.6 (b) revised 2nd sentence. Replaced “1:12 roof slope…with “Low slope” roof…”

REV 2.0 *31 March 2011*

1. General Update

REV 1.2 *31 May 2010*

1. In general, either deleted unnecessary references to or replaced references to "Ft. Lewis" or "Fort Lewis" with "JBLM"
2. Title of para. 6 refers to Joint Base Lewis-McChord, WA.
3. Deleted some acronyms that included "FL" in them.
4. Replaced DOIM with NEC.

REV 1.1 *31 March 2010*

1. Paragraph 6.14.5, Green Power, added: “Do not purchase Renewable Energy Credits (REC’s) to earn this credit.”

REV 1.0 *31 October 2009*

1. Baseline Document

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 6 – PROJECT SPECIFIC REQUIREMENTS – FORT SAM HOUSTON (NEW VERSION ONLY)

REV 1.3 *30 April 2012*

1. Paragraph 6.11, Added location for fill-in of outdoor design criteria per Section 01 10 00, paragraph 5.9.2 in accordance with paragraph 2.2 in UFC 3-410-1FA HVAC.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 1.2 *30 June 2010*

1. Updated language in para. 6.6, Structural., moved some general language to para. 5.4, added ground snow loading.

REV 1.1 *31 March 2010*

1. Paragraph 6.14.5, Green Power, added: “Do not purchase Renewable Energy Credits (REC’s) to earn this credit.”

REV 1.0 *31 October 2009*

1. Baseline Document

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 6 – PROJECT SPECIFIC REQUIREMENTS – FORT HOOD (NEW VERSION ONLY)

REV 1.3 *30 April 2012*

1. Paragraph 6.11, Added location for fill-in of outdoor design criteria per Section 01 10 00, paragraph 5.9.2 in accordance with paragraph 2.2 in UFC 3-410-1FA HVAC.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 1.2 *30 September 2010*

1. Updated paragraph 6.13.
2. Updated paragraph 6.11 to add LONWORKS details and to add that integration into the existing UMCS is not in contract (NIC).

REV 1.1 *31 March 2010*

1. Paragraph 6.13.2, corrected location to Ft. Hood.
2. Para. 6.13.3.1, corrected the frequency of the transmitter.
3. Paragraph 6.14.5, Green Power, added: “Do not purchase Renewable Energy Credits (REC’s) to earn this credit.”

REV 1.0 *31 October 2009*

1. Baseline Document

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 6 – PROJECT SPECIFIC REQUIREMENTS – FORT BRAGG (NEW VERSION ONLY)

REV 3.5 *30 April 2012*

1. Paragraph 6.11, Added location for fill-in of outdoor design criteria per Section 01 10 00, paragraph 5.9.2 in accordance with paragraph 2.2 in UFC 3-410-1FA HVAC.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

2. Para. 6.14.8, changed points of contact for LEED coordination.

REV 3.4 *30 September 2010*

1. Paragraph 6.2.1, documented ISEC approved waiver to I3A paragraph 2.4.3.1, which states: "The distribution system shall be star topology with each outlet connected to a TR with a feeder cable or a drop cable and each TR connected to the head end equipment with a trunk cable." Ft. Bragg Paragraph 6.4.6.7(a) states: “Extend one 4-inch duct from the CATV backboard to nearest maintenance hole or handhole in the site vicinity. Do not locate CATV demarcation point in the facility telecommunications room. CATV service provider shall coordinate with DPW for location of CATV demarcation point, usually placed in the mechanical or electrical room.”

REV 3.3 *31 August 2010*

1. Paragraph 6.4.10.3, replaced existing language with three specifier options: 1) Project site has merchantable timber Contractor marks clearing limits. Government Timber contractor harvests merchantable timber, 2) Project site has no required merchantable timber sales, 3) Project site has merchantable timber. Contractor cuts and stockpiles merchantable timber.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 3.2 *31 July 2010*

1. Para. 6.13.4, added: “Coordinate fire alarm zone descriptions and number with the fire department. (Single-story buildings typically require a minimum of 8 to 11 fire alarm zones; each floor above the first floor requires an additional 6 fire alarm zones.) Manual pull stations shall be metal, double action type, and shall not use break rods.”

2. Para. 6.13.5.1, added: “The MNS shall communicate with the base wide system. The base wide system is by Federal Signal and communication is by wireless transmission.

3. Para. 6.4.6.1 (b), added” Sandhills Utilities Service will supply the electric meter.”

4. Para. 6.4.6.1 (c). added: “Coordinate type of metering required for DDC monitoring with Energy Manager.” And deleted language concerning open protocols. Added details concerning metering for electrical, water and gas.

REV 3.1 16 June 2010

1. Made miscellaneous minor edits.

REV 3.0 *31 May 2010*

1. Continuation of General updates, primarily from paragraph 6.9 to the end. Also added new user specified project specific field for general site work.

REV 2.0 *30 April 2010*

1. General Revisions

REV 1.1 *31 March 2010*

1. Paragraph 6.14.8 added:

   "For all Fort Bragg projects using LEED Online, invite thomas.s.blue@us.army.mil to join the LEED online project at beginning of project. No team assignment is needed once he joins, as he is a reviewer."

2. Paragraph 6.14.5, Green Power, added: "Do not purchase Renewable Energy Credits (REC's) to earn this credit."

3. Per review comment on a project, noted that paragraph 6.8.1 mentioned high efficiency urinals for water conservation. Removed reference because non-water using urinals are mandatory,

4. Paragraph 6.8.2, changed term "Waterless Urinals" (brand name) to generic "Non-Water Using Urinals".

5. Paragraph 6.6.3.4, added: "Seismic design also includes the various systems, piping, hangars, etc."

6. Paragraph 6.11.1.1, added: "…, under separate contract with the Government", per a project review comment from Ft. Bragg.

REV 1.0 *31 October 2009*

1. Baseline Document

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 6 – PROJECT SPECIFIC REQUIREMENTS – FORT BLISS (NEW VERSION ONLY)

REV 2.7 *30 April 2012*

1. Deleted para. 6.2.1 as non-applicable to REV 2.0 of Paragraph 5 design criteria.

2. Paragraph 6.11, Added location for fill-in of outdoor design criteria per Section 01 10 00, paragraph 5.9.2 in accordance with paragraph 2.2 in UFC 3-410-1FA HVAC.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 2.6 *30 September 2010*

1. Added HQUSACE approved waiver in paragraph 6.2.1, Irrigation Potable Water Use Reduction . The requirement for 100% reduction in potable water usage for irrigation in Paragraph 5.2.7.1 is waived. Instead, the requirement is to reduce irrigation potable water use 50 percent using LEED credit WE1.1 baseline, except where precluded by other project requirements.

REV 2.5 *31 August 2010*

1. Added paragraph 6.13.7.10 "Fire alarm pull boxes shall be of metal construction, dual-action, and key operable."

2. Fixed 2 typos in paras. 6.5.4.2 (g) 2 and 6.13.3.

REV 2.4 *30 June 2010*

1. Paragraph 6.10.1.1 (q), revised sentence to read "Use the following color scheme for Telecommunications wiring and voice/data jacks:"

REV 2.3 *31 May 2010*

1. Correct typos in Paragraphs 6.3.2 and 6.5.2.2

REV 2.2 *30 April 2010*

1. Deleted paragraph 6.11.15 (b) which defined preferences for telecommunications rooms HVAC systems and which repeated ANSI 569 performance requirements to determine equipment loads, coordinated with ISEC.

REV 2.1 *31 March 2010*

1. Paragraph 6.14.5, Green Power, added: “Do not purchase Renewable Energy Credits (REC’s) to earn this credit.”

2. Paragraph 6.10.3, deleted the words “telecommunication room, or" from the sentence “Route all conduits for CCTV signals back to the designated monitoring room."

REV 2.0 *31 January 2010*

1. Issued new version due to extent of Sitework edits.

2. Paragraph 6.10, added cable color scheme.

3. Deleted SITEWORK_GOV Option. For other than SITEWORK_DB, created SITEWORK_OTHER option to refer to Appendix J for sitework and Utility requirements. Ft Bliss is reworking standard utility requirements that apply universally.

REV 1.0 *31 October 2009*

1. Baseline Document

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 6 – PROJECT SPECIFIC REQUIREMENTS – FORT STEWART (NEW VERSION ONLY)

REV 2.5 *30 April 2012*

1. Paragraph 6.11, Added location for fill-in of outdoor design criteria per Section 01 10 00, paragraph 5.9.2 in accordance with paragraph 2.2 in UFC 3-410-1FA HVAC.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

2. Paragraph 6.14.8, added:

"For all Fort Stewart projects using LEED Online, invitethe following individuals at the beginning of the project, assigned QA/QC role: Lynda.s.pfau.ctr@mail.mil, Judith.f.milton@usace.army.mil, Stephen.d.bentley@usace.army.mil, Savannah District Project Manager, Fort Bragg Project Manager (name varies - coordinate at kickoff meeting)."

3. Moved previous 6.14.8 Specifier fill-in to 6.14.8.1.

REV 2.4 30 April 2011

1. Paragraph 6.11.1, revised to read: "The existing UMCS is a Johnson Controls (Metasys) UMCS, which is a web-based system located in Building 1134. The Fort Stewart point of contact for UMCS is Energy Engineer, Mr. Lewis (912-767-5034). The building level controllers and DDC System shall utilize LonWorks technology. The Government's separate system integration contractor will integrate the building DDC systems. The design-Build Contractor shall coordinate with Mr. Lewis for integration of building DDC systems. Before starting the design, meet with Mr. Lewis to discuss the installation's requirements for graphics and programming. Additional requirements for DDC systems are in the "Fort Stewart Supplement To LONWorks Direct Digital Control for HVAC and Other Local Building Systems" in the APPENDIX."

REV 2.3 31 Mar 2011

1. Paragraph 6.10.2.3, Changed "22 AWG, 2-conductor" in 2nd sentence to "22 AWG, 4-conductor"

2. Paragraph 6.4.10.1, Timber Harvest, created two Specifier Options

   If RFP preparer selects "Timber Harvest will be completed prior to Notice To Proceed" then the following will print:

   "Timber Harvesting will be completed under separate contract prior to Notice To Proceed. Remove all trees or portions of trees remaining after the Timber Harvest Contractor has completed his operations."

   If RFP preparer selects "Timber Harvest will not be completed prior to Notice To Proceed", then the current wording for this paragraph will print.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

3. Paragraph 6.4.12,, Turf, changed grass type to Tifway 419 Bermuda per request of Ft Stewart Landscape Architect.

4. Paragraph 6.4.11, Landscaping, added the following to the end of subparagraph (a):"See Appendix I."

5. Paragraph 6.3.2.2, Dumpsters, revised 11 feet to 12 feet wide.

6. Paragraph 6.15, Environmental, Changed "EA" to "National Environmental Policy Act (NEPA) Documentation": Refer to Appendix E for the project's NEPA Documentation."

7. 6.3.3.1 Stormwater Management Systems added the following to the end of subparagraph (c): "Design detention basins to hold water for a MINIMUM of 24 hours, to remove total suspended solids by 80%, and meet detention requirements for flood controls as required during heavier rain events."

8. Paragraph 6.11.1, Utility Monitoring and Control System (UMCS), deleted all of the following:

   --"both Bacnet and"

   --"A contractor certified by Johnson Controls (Metasys) shall install and integrate the building control system."

   --"<UMCS>Provide M&C Software with a license for no less than «M&C_LICNUM» clients Provide M&C Software with a license for no less than «M&C_POINTNUM» points. </UMCS>"

   Added the following to the end of the paragraph: "Additional requirements for UMCS are in the "Fort Stewart Supplement To LONWorks Direct Digital Control for HVAC and Other Local Building Systems" in the APPENDIX."

   NOTE: Existing entry fields/questions were deleted from the Wizard to accommodate this revision.

REV 2.2 *31 Jul 2010*

1. Para. 6.13.1, revised language concerning number of zones.

REV 2.1 *31 May 2010*

1. Para. 6.3.1.4, changed installation recycling guidance to “Command Recycling Policy”.

2. Added Para. 6.3.2.2,, Dumpsters

   “Dumpster enclosure openings must be a minimum of 11 feet wide per dumpster.”

3. Para. 6.4.6.5,, added: .” If any water lines are installed, coordinate with Environmental Health for Chlorination requirements and prior to occupying the buildings. This is necessary to ensure drinking water lines have been super-chlorinated with positive chlorine residuals and are free of any bacteria”

4. Para. 6.4.8, added details concerning borrow pit sources and permitting.

5. Para. 6.4.10.1, changed 120 days to 60 days.

REV 2.0 *30 April 2010*

1. Made extensive revisions.

REV 1.1 *31 March 2010*

1. Paragraph 6.14.5, Green Power, added: “Do not purchase Renewable Energy Credits (REC’s) to earn this credit.”

REV 1.0 *31 October 2009*

1. Baseline Document

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 6 – PROJECT SPECIFIC REQUIREMENTS – FORT BENNING (NEW VERSION ONLY)

REV 1.1 *30 April 2012*

1. Paragraph 6.11, Added location for fill-in of outdoor design criteria per Section 01 10 00, paragraph 5.9.2 in accordance with paragraph 2.2 in UFC 3-410-1FA HVAC.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

2. Paragraph 6.14.8, added:" For all Fort Benning projects using LEED Online, invite the following individuals at the beginning of the project, assigned QA/QC role: Lynda.s.pfau.ctr@mail.mil, Judith.f.milton@usace.army.mil, Stephen.d.bentley@usace.army.mil, Savannah District Project Manager, Fort Bragg Project Manager (name varies - coordinate at kickoff meeting)

3. Moved existing specifier fill-in in 6.14.8 to 6.14.8.1.

REV 1.0 *31 March 2010*

1. Baseline Document

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 6 – PROJECT SPECIFIC REQUIREMENTS – FORT SILL (NEW VERSION ONLY)

REV 1.2 *31 March 2012*

1. Paragraph 6.11, Added location for fill-in of outdoor design criteria per Section 01 10 00, paragraph 5.9.2 in accordance with paragraph 2.2 in UFC 3-410-1FA HVAC.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 1.1 *31 March 2012*

1. Revised per ISEC comments

REV 1.0 *31 March 2010*

1. Baseline Document

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

PARAGRAPH 6 – PROJECT SPECIFIC REQUIREMENTS – FORT KNOX

REV 2.0 *30 June 2012*

1. Numerous minor revisions involving hardware and points of contact too numerous to individually list.

REV 1.1 *30 April 2012*

1. Paragraph 6.11, Added location for fill-in of outdoor design criteria per Section 01 10 00, paragraph 5.9.2 in accordance with paragraph 2.2 in UFC 3-410-1FA HVAC.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 1.0 *31 August 2010*

1. Baseline Document

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

01 11 00 SUMMARY OF WORK (ID/IQ)

REV 1.16 31 OCTOBER 2012

1. Added Battlefield Weather Support Facility, Training Support Center, Urban Assault Course, and Basic 10M-25M Firing Range Facility Types

REV 1.15 30 JUNE 2012

1. Added Chaplain Family Life Center and Religious Education Facility

REV 1.14 30 SEPTEMBER 2011

1. The name Consolidated, Fire, Safety, and Security has been changed to Department of Emergency Services in entire document.

REV 1.13 31 MARCH 2011

1. Added Live Fire Shoothouse (LVSH)
2. Added Automated Record Fire Range (ARF)
3. Automated Combat Pistol/Military Police Firearms Qualification Course (CPQC/MPFQC)

REV 1.12 31 JANUARY 2011

1. Added MODIFIED RECORD FIRE RANGE (MRF)

REV 1.11 31 MAY 2010

1. Revised Unmanned Aircraft Facilities to Manned and Unmanned Hangars in Paragraph
2. Added Attack or Assault Battalion, or Cavalry Squad (AAC) Hangar Facility

REV 1.10 30 APRIL 2010

1. Added Unmanned Aircraft Systems Facilities (New Version Only)

REV 1.9 01 JULY 2009

1. Added Access Control Points (New Version Only)

REV 1.8 30 SEPTEMBER 2008

1. Added table for describing the comparable facility type for when using a unique facility in the RFP

2. Updated references to energy conservation requirements:

   "The government is required by Public Law 109-58, Executive Order 13423, and Federal Regulations 10 CFR 435 to design and construct facilities in an energy-conserving manner."

REV 1.7 30 APRIL 2008

1. Added Physical Fitness Center and Army Fire Stations Facility Type.

REV 1.6 28 MARCH 2008

1. Changed name from Task Order Summary of Work to ID/IQ.

2. Revised to add Warriors in Transition Complex.

3. Revised to add Youth Center Facility Type

4. Revised to add Consolidate Fire, Safety, and Security Facility

5. Added following to the end of paragraph 1.2:

   "24) Anti-Terrorism / Force Protection (AT/FP)."

REV 1.5 15 JANUARY 2008

1. Revised to add Basic Training and One Station Unit Training Complex.

REV 1.4 15 DECEMBER 2007

1. Revised to add Advanced Individual Training Complex.

REV 1.3 15 NOVEMBER 2007

1. Revised to add Chapel Facility.

REV 1.2 19 OCTOBER 2007

1. Revised to add Command and Control Facility Types.

REV 1.1 01 SEPTEMBER 2007

1. Revised to add Child Development Center Facility Types.

REV 1.0 15 AUGUST 2007

1. Baseline Document

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

01 32 01.00 10 PROJECT SCHEDULE

REV 5.3 30 APRIL 2012

1. numerous minor edits to align with updates to the UFGS for Project Schedule. Added reference to ECB 2005-10, 1.2, edited qualifications of scheduler, added paragraph 1.3 "G" designationadded for submittals, added some subparagraph titles, 3.1 added reference to contract clause Scheduling Requirements, 3.3 deleted software details, 3.3.2.4 i, added reference to ECB 2005-10, 3.3.2.5 and 3.3.2.6 replaced term "Notice to Proceed" for phasing authorization with "authorization to proceed with phasing requirements", 3.6 corrected spelling of :actual"

REV 5.2 31 JULY 2011

1. Paragraph 1.1, deleted outdated link to reference and told reader where to find document through TECHINFO.

2. Corrected URL link to RMS website.

REV 5.1 30 APRIL 2011

1. Paragraph 3.3.2.4, revised subparagraph numbering to align with the Model RFP methodology.

2. Added paragraph 3.3.10, parameters for use of Primavera "P6" .

REV 5.0 31 AUGUST 2010

1. General update, based upon closely matching UFGS version plus added WIZARD option for language prohibiting time extensions and extended overhead for delays to scheduled completion dates that are earlier than the required contract completion date. Use this option when the contract duration is based upon Contractor proposed contract duration.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

2. General grammatical edits and removed excess verbiage.

REV 4.1 31 JULY 2009

1. Para. 3.1.2 added sentence at end of paragraph: "See paragraph 3.7.4."

2. Para. 3.6, added new sentence after second sentence: "Match the actual start and finish dates with the dates exported, as described in paragraph 3.3.5."

3. Added new Paragraph 3.7.4:

   "3.7.4 If Progress Falls Behind the Approved Project Schedule

   3.7.4.1 Should progress fall behind the approved schedule (more than 20 work days of negative float) due to Contractor generated problems, promptly provide a supplemental recovery or completion schedule that illustrates its efforts to regain time to assure a completion by the required contract completion date.

3.7.4.2 The supplemental recovery or completion schedule will not replace the original, approved schedule as the official contract schedule. Continue to update the original, approved schedule on at least a monthly basis. In addition, the Contractor and the Contracting Officer will monitor the supplemental recovery or completion schedule on at least a bi-weekly basis to determine its effect on regaining the rate of progress to assure project completion by the contractually required completion date.

3.7.4.3 Do not artificially improve progress by simply revising the schedule logic, modifying or adding constraints, or shortening future work activity durations. Resource and manpower load the supplemental recovery schedule or completion schedule with crew size and productivity for each remaining activity, indicating overtime, weekend work, and/or double shifts needed to regain the schedule, in accordance with FAR 52.236.15, without additional cost to the Government. Indicate assumptions made and the basis for any logic, constraint, or duration changes used in the creation of the supplemental recovery or completion schedule in a narrative submitted for the Contracting Officer's approval. Any additional resources or manpower must be evident at the work site. Do not modify the official contract schedule to include these assumptions.

3.7.4.4 Failure to perform work and maintain progress in accordance with the supplemental recovery or completion schedule may result in an interim and final unsatisfactory performance rating and/or may result in corrective action by the Contracting Officer in accordance with FAR 52.236-15. "

REV 4.0 15 AUGUST 2007

1. Revised all references from old numbering system to Master Format 2004

REV 3.0 13 NOVEMBER 2006

1. This is another comprehensive update of the entire section. Individual edits aren't tagged

REV 2.0 25 SEPTEMBER 2006

1. This is essentially a comprehensive update of the entire section. It has incorporated the applicable provisions of contract clause 52.236-15, Schedules for Construction Contracts. Individual edits aren't tagged. One important revision in this section is in paragraph 3.3.3, "Scheduled Project Completion and Activity Calendars." The sentence now reads:

   "The schedule interval shall extend from NTP to the required contract completion date. The contract completion activity shall match the required contract duration in the accepted contract proposal, as adjusted for any approved contract time extensions. "

REV 1.1 08 SEPTEMBER 2006

1. Paragraph 3.2.2.2, Design and Permitting Activities, added language moved from Section 01451, concerning scheduling of design activities.

REV 1.0 15 MAY 2006

1. Baseline Document

01 33 00 SUBMITTAL PROCEDURES

REV 4.1 30 APRIL 2010

1. Added Paragraph 1.14, FIO Submittals with new Specifier project specific fill-in to indicate the number of FIO submittals required.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 4.0 31 OCTOBER 2009

1. Extensively edited language from passive to active voice and eliminated superfluous wording.

2. Deleted Attachment A "Sample Preliminary Submittal Register", which is the RMS Submittal Register Input Form 4288A. This is now Appendix R. The Specifier must now complete the form to include submittals required in Section 01 10 00, paragraphs 3 and 6. The RFP will contain a pdf version. After contract or task order award, the Government will provide the Excel Spreadsheet to the Contractor to develop the Submittal Register.

REV 3.8 30 AUGUST 2009

1. Updated Attachment A Sample Preliminary Submittal Register Form to reflect updates to Section 01 78 02 Closeout Submittals and joint layout plan submittal required in Section 01 10 00, paragraph.5.2.3.1.

REV 3.7 30 NOVEMBER 2008

1. Sample Submittal Register, Deleted separate requirement for Paragraph 3.2 Special Inspection Program submittal. The program is to be included in the QC Plan, per clarification to the QC Section in the October 31 update.

REV 3.6 30 SEPTEMBER 2008

1. Corrected various paragraph numbers that the WORD auto numbering scrambled (in paragraphs 1.3.1 and 1.3.2).

2. Paragraph 1.3.1.1, added the word all to: "Designer of Record (DOR) approval is required for all extensions of design…"

3. Paragraph 1.8, Submittal Register, designated as "GA".

4. Sample Submittal Register, Paragraph 1.8 and updates for design packages, changed submittal classification to "GA".

5. Updated the sample Preliminary Submittal Register to add the requirement in Paragraph 3.2 for the DOR to develop a special inspection program (see chapter 17 of the International Building Code).

REV 3.5 31 JULY 2008

1. Paragraph 1.3, SUBMITTAL CLASSIFICATION, reorganize this paragraph to add two new submittal classifications: 1.3.4 Designer of Record Approved/Government Conformance Review (DA/CR) and 1.3.5 Designer of Record Approved/Government Approved (DA/GA). Re-designated paragraph 1.3.4 Information Only (FIO) as paragraph 1.6. Relocated essentially the same wording from paragraphs under 1.3.1 and 1.3.2 into the new paragraphs. Abbreviated "designer of record" as "DOR" throughout. Primarily a reorganization to add the two new submittal classifications for simplification and clarity.

REV 3.4 30 JUNE 2008

1. Paragraph 3.4.3.1, simplified sentence to improve grammar, without intending to change meaning. Removed "as part of the Contractor's QC organization" and restated as:

"…provide <REV>specialized CQC personnel</REV>". The intent is that these persons are part of the CQC organization, not outside the organization (e.g., production personnel).

2. Paragraph 3.9.1, under documentation, revised the Section number for "QCS System" from SECTION 01 45 02.00 10 to SECTION 01 45 01.10 to conform with January 2008 numbering update in the Unified Facilities Guides Specifications (UFGS).

3. Paragraph 3.2.2.2, deleted last sentence: "Engineer Regulation 1110-1-12 provides some useful information in developing checklists." The current version of this ER no longer discusses checklists.

REV 3.3 30 MAY 2008

1. Added Attachment A – SAMPLE PRELIMINARY SUBMITTAL REGISTER INPUT FORM.

2. Paragraph 1.8, added:

   "Attachment A, herein, is a sample preliminary submittal register input form for use with the Quality Management System and the Resident Office Management System (QCS and RMS).The Government will provide the Contractor the actual Excel Spreadsheet version of this sample input form after award to modify and to use for input into QCS. The Excel Spreadsheet is not totally inputable into QCS, so additional keystroke input will be necessary. The sample input form is not all-inclusive. In addition, additional submittals may be required by other parts of the contract. After award, the parties will meet to discuss contract specific (or task order specific for a task order contract) distribution for the submittals. "

REV 3.2 28 MARCH 2008

1. Numbered the Stamps paragraph as "1.15 STAMPS".

2. Paragraph 1.13, Revised title and provided Note to Specifier and specifier selection for number of submittals and number of GA or government concurrence type submittals to be returned to the contractor.

   "1.13 GOVERNMENT APPROVED OR CONCURRED WITH SUBMITTALS

   Upon completion of review of submittals requiring Government approval or concurrence, the submittals will be identified as having received approval by being so stamped and dated. [retain] copies of the submittal will be retained by the Contracting Officer and [return] copy(ies) of the submittal will be returned to the Contractor."

   NOTE TO SPECIFIER: Fill in the number of GA or concurrence submittals to be retained by the Government and the number to be returned to the Contractor. The default is two to be retained and two to be returned.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 3.1 28 FEBRUARY 2008

1. Under paragraph 1.1, SD-05 Design Data, second bullet, added design substantiation submittals.

REV 3.0 15 AUGUST 2007

1. Revised all references from old numbering system to Master Format 2004

REV 2.2 3 NOVEMBER 2006

1. Paragraph 1.3.1, revised sentence to clarify that "The Contractor shall provide the Government the number of copies designated hereinafter of all Designer of Record approved submittals, after the designer of Record has taken appropriate action."

2. Paragraph 1.3.4, revised paragraph to clarify: "All submittals not requiring Designer of Record or Government approval will be for information only. The Contractor provide the Government "For Information Only" copies of all submittals not requiring Government approval or concurrence, after the Designer of Record has taken the appropriate action."

3. Paragraph 1.8, SUBMITTAL REGISTER, revised fourth sentence to clarify: "If the Government provides a preliminary submittal register or list of submittals, the register or list may not be all-inclusive and additional submittals may be required by other parts of the contract."

REV 2.1 15 SEPTEMBER 2006

1. Paragraph 1.8, revised sentence to read: "The Designer of Record shall identify required submittals in the specifications, and use the list to prepare the Submittal Register, utilizing the government-provided software, QCS (see Section 01312), to create the ENG Form 4288. "

2. Paragraph 1.10, revised paragraph to read: "Use the transmittal form (ENG Form 4025) for submitting submittals in accordance with the instructions on the reverse side of the form. These forms will be furnished to the Contractor or are included in the QCS software if the Contractor is required to use QCS for this contract. Use a separate transmittal form for each specification section Complete this form by filling out all the heading blank spaces and identify each item submitted. Exercise special care to ensure proper listing of the specification paragraph and/or sheet number of the contract drawings pertinent to the data submitted for each item.

REV 1.0 09 JUNE 2006

1. Baseline Document

01 33 00 SUBMITTAL PROCEDURES – TASK ORDER SPECIFIC

REV 1.4 30 APRIL 2010

1. Added Paragraph 1.14, FIO Submittals with new Specifier project specific fill-in to indicate the number of FIO submittals required.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 1.3 31 OCTOBER 2009

1. Deleted Attachment A "Sample Preliminary Submittal Register", which is the RMS Submittal Register Input Form 4288A. This is now Appendix R. The Specifier must now complete the form to include submittals required in Section 01 10 00, paragraphs 3 and 6. The RFP will contain a pdf version. After contract or task order award, the Government will provide the Excel Spreadsheet to the Contractor to develop the Submittal Register.

2. Para. 1.13, GOVERNMENT APPROVED OR CONCURRED WITH SUBMITTALS. Revised language from passive to active voice and eliminated excess words.

REV 1.2 30 AUGUST 2009

1. Updated Attachment A Sample Preliminary Submittal Register Form to reflect updates to Section 01 78 02 Closeout Submittals and joint layout plan submittal required in Section 01 10 00, paragraph.5.2.3.1.

REV 1.1 31 OCTOBER 2008

1. Revised title in Index paragraph 1.13 from “Government Approved Submittals” to “Government Approved or Concurred With Submittals”.

REV 1.0 28 MARCH 2008

1. Baseline Document

01 33 16 DESIGN AFTER AWARD

REV 2.38 31 AUGUSTS 2012

1. Revised paragraph 3.7.1.6

2. Revised attachment F

REV 2.37 30 APRIL 2012

1. Added new paragraph 3.5.2.14 for design substantiation of Life Cycle Cost Analyses required by Section 01 10 00, paragraph 5:

“3.5.2.14. Life Cycle Cost Analysis (LCCA) Documentation: Sufficient documentation is required for all life cycle cost analyses required in paragraph 5 of Section 01 10 00, the Statement of Work. Each LCCA must be complete and substantial, sufficient of being read as a standalone document which defines all the parameters of the analysis. Use of commercially available software programs to calculate life cycle costs are acceptable, however, provide the LCCA Documentation requirements, as outlined below in addition to any input/output documents generated by the software. As a minimum, include the following items in the LCCA documentation:

(a) Definition of Baseline Condition
(b) Narrative Identification/Explanation of Each Alternative Considered
(c) Energy Usage Analysis (Narrative explanation as well as computer outputs)
(d) Energy Costs Used (Source of Rate Structure or Utility Rates)
(e) First Cost of Baseline Condition and Each Alternative (Cost information must demonstrate inclusion of applicable components and sub-components - single line, lump sum cost estimates for the baseline or alternative conditions are not acceptable)
(f) Cyclical Replacement Costs (Identify data source for equipment/component life used)
(g) Annual/Recurring Maintenance Costs (Identify data source for required maintenance tasks and duration/cost of tasks)
(h) Salvage Values (Identify data source for equipment/component life used)
(i) Life Cycle Cost Results Including:
(1) Life Cycle Cost of the Baseline Condition
(2) Life Cycle Cost of Each Alternative Evaluated
(3) Simple Payback Calculations for Each Alternative
(4) Savings to Investment Ratio for Each Alternative
(5) Study Period Utilized
(6) Net Savings for Each Alternative (As Applicable)

(7) Narrative Discussion/Analysis of Results
(8) Uncertainty Analysis
(9) Certification that the analysis conducted and documented is compliant with the terms, instructions, and conditions of 10 CFR 436 Subpart A."

REV 2.36 31 JAN 2012

1. Table 3.9.1, quantities of design deliverables, added specifier option for a copy of the FFE submittal for the COS, if they are to review it.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

2. Attachment B, under paragraph 1.1, added specifier options for an additional copy each of the hard and electronic versions of the FFE submittals, when the specifier includes the COS as a reviewer for paragraph 3.9.1.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 2.35 30 NOV 2011

1. ATTACHMENT B, paragraph 1.2.1, Overall Furniture and Area Plans, added sentence:

"Coordinate the overall furniture and area plans with the Life Safety Code Review to ensure adequate clearances are provided for egress. Provide a narrative of this coordination to accompany the Furniture and Area plans."

2. ATTACMENT B, added new paragraph 1.2.9, "Portable Fire extinguishers":

"Provide a list of all required portable fire extinguishers, with descriptions (location, size, type, etc.) and total number per type. See also attachment D, "SAMPLE FIRE PROTECTION AND LIFE SAFETY CODE REVIEW", paragraph 1.14."

REV 2.34 31 JULY 2011

1. Paragraph 3.5.6, revamped second and third sentences and added description where to find the UFGS in WBDG: " …Examples include specifications from MASTERSPEC from the American Institute of Architects, SPECTEXT from Construction Specification Institute or Unified Facility Guide Specifications (UFGS using MASTERFORMAT 2004 numbering system), etc. The UFGS are available through the "Whole Building Design Guide" website, using a websearch engine."

2. Paragraph 3.5.6, added new language at the end:

   "Note that the UFGS are NOT written for Design-Build and must be edited appropriately. For instance, they assume that the Government will approve most submittals, whereas in Design-Build, the Designer of Record has that action, unless this Solicitation requires Government approval for specific submittals. The Designer of Record should also note that some UFGS sections might either prescribe requirements exceeding the Government's own design standards in applicable references or contain requirements that should be selected where appropriately required by the applicable references. At any rate, where the UFGS are consistent with other major, well known master commercial guide specifications, then generally retain such requirements, as good practices."

3. Table at para. 3.9.1, For ISEC, added a partial set for FFE work station/systems furniture IT details.

REV 2.33 01 MARCH 2011

1. Correction to paragraph 3.5.5.1, to incorporate 31 January 2011 revision to paragraph 3.5.5.1., removed reference to 2007 version of ASHRAE 90.1.
2. Para. 1.2, fixed typo in 3rd sentence.
3. Paragraph 3.3.1, added:" Include the procedures for Design Configuration Management in the Design Quality Control Plan."
4. Table 3.9.1, Submittal Distribution and Quantities, added U.S. Army Corps of Engineers, Huntsville Engineering and Support Center to the list, for the Interim and Final FFE design packages.
5. Attachment B, numerous revisions
6. Attachment C, updated DrChecks procedures to clarify that the DOR's must follow up after the Review conference, prior to the next design submission of that design package, how and what design documents were corrected or otherwise revised in response to the review comments. Also made other clarifications.
7. Attachment F, revised COS/Standard Facility version to allow use of Revit.

REV 2.32 31 JANUARY 2011

1. Para. 3.5.5.1, updated reference to ASHRAE 90.1, 2007.

REV 2.31 30 NOVEMBER 2010

1. Added paragraph 3.5.2.13: "Air Barrier System: Provide a narrative of the design and installation requirements for the Air Barrier system. As part of the design quality control process an air barrier consultant shall review drawing details to assure that details of critical Air Barrier components are properly detailed and incorporated during the design drawings and process (i.e. window flashing details, penetration in air barrier details, door flashing details, roofing/ceiling barrier interface details and etc.). Furnish the Government written review details and results."
2. Added paragraph 3.5.8.3 (k): "Air Barrier Design: Details of all Air Barrier components, (i.e. window flashing details, penetrations in air barrier details, door flashing details, roofing/ceiling barrier interface details and etc.)."

REV 2.30 30 SEPTEMBER 2010

1. Paragraph 1.1.2, reduced allowable number of design packages for each major building type from 10 to 6 due to workload considerations of some offices. Sitework remains at up to 3 design packages due to various permitting requirements.
2. Paragraph 3.7.1.6 (c), added new sentence: "Fonts that are not included as part of the default CAD software package installation or recognized as an allowable font by the A/E/C CAD Standard are not acceptable in delivered CAD files." Deleted the following sentence: "Drawing files with external references or special fonts are not acceptable" (per SAS inquiry and ERDC-ITL-MS CAD/BIM team member response).

REV 2.29 31 AUGUST 2010

1. Paragraph 3.7, added: "Use DrChecks or other acceptable comment tracking system during the ITR and submit the results with each final design package."

   See also the Preliminary Submittal Register.

REV 2.28 30 JULY 2010

1. Para. 3.9.1, Revised the values for the FFE column in the Distribution and Quantities Table.

2. Refinements to Interior Design (Attachment B) specification and submittal requirements were made.

REV 2.27 30 JUNE 2010

1. Para. 3.5.8.11, revised paragraph title to read "Separate detailed Telecommunications drawings for Information Systems including the following responsibilities:"

REV 2.26 30 APRIL 2010

1. Revised Paragraph 3.5.2.12

REV 2.25 31 MARCH 2010

1. Paragraph 3.7.1.6 (d), deleted 1st sentence, which was a duplicate of the last sentence.

2. Para. 3.5.8.11, added additional details for the Telecom system design drawings.

3. Table 3.9.1 Submittal distribution and Quantities, Incorporated standard mandatory default submittals for USAISEC. They want one electronic copy of all info that is applicable to Telecommunications or to Telecomm/SIPRNET Rooms.

4. Updated Attachment B to incorporate several Omaha District comments.

5. General editing for grammar, active voice and elimination of extraneous wording."

REV 2.24 28 FEBRUARY 2010

1. Paragraph 3.5.4.1, revised to state:

   "If the Solicitation provides a Prescriptive Technology Solution Set, use of the Technology Solution set has no effect on LEED documentation requirements. Provide all required LEED documentation, including energy analysis, in accordance with LEED requirements when using the Technology Solution Set."

REV 2.23 31 JANUARY 2010

2. Attachments A and B, minor edits for grammar and Active Voice.

3. Attachment B, added details for FFE design.

4. Paragraph 3.5.2.4, added direct reference to Design of Buildings to Resist Progressive Collapse for emphasis:

   "Provide a design narrative and calculations where applicable, demonstrating compliance with each of the 22 standards in UFC 4-010-01 (ADDED:), "which includes Design of

Buildings to Resist Progressive Collapse (use the most recent version of UFC 4-023-03, regardless of references to any specific version in UFC 4-010-01)."

5. Attachment F has been revised in its entirety.

REV 2.22 31 DECEMBER 2009

1. Updated Attachments A and B to remove excess words and revise from passive to active voice.

REV 2.21 30 SEPTEMBER 2009

1. Para. 5.2.7. (a), deleted conflicting qualifications for fire protection engineer and referred to Section 01 10 00, paragraph 5 for qualifications.

2. Changed all references for ATTACHMENT E from "LEED 2.2 DOCUMENTATION REQUIREMENTS AND SUBMITTALS CHECKLIST" to "LEED SUBMITTALS", including RMS SAMPLE SUBMITTAL REGISTER INPUT FORM.

3. Renumbered subparagraphs under 1.1 INTRODUCTION and added para. 1.1.4, INTEGRATED DESIGN per Sustainability Requirements (EO 13423)

4. Revised ATTACHMENT E to provide appropriate coverage for LEED V2.2 or V3, as applicable to the project.

5. Paragraph 3.5.5 ENERGY CONSERVATION, deleted references to 2004 edition of ASHRAE 90.1. Use current edition, instead, per 16 SEP 2009 Sustainability meeting in HQUSACE.

   NOTE TO FIELD: EPACT 2005 has been superseded by EISA 2007 and EO 13423. This is one reason that we don't merely reference these documents in the contract. The requirements of all references must be coordinated and extracted, rather than simply citing the reference for the industry to have to data mine and interpret!

REV 2.20 30 AUGUST 2009

1. Attachment D, Revised Accessibility references to the US ACCESS BOARD's: "ABA and ADA Guidelines for Buildings and Facilities"

2. Corrected auto-numbering of paragraphs 3.5.1 and 3.5.2.

REV 2.19 31 JULY 2009

1. Added the option in paragraph 3.9.2, Web Base Design Submittals, to require paper copies of design drawings for Installation personnel, in lieu of allowing the Contractor the option to only provide web based submittals. Added note to the table of distribution of copies of design submittals, revised paragraph 3.9.2 and added option in Wizard, accordingly.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 2.18 31 MAY 2009

1. Added paragraph 3.5.2.3.(g)

   (g) Fully coordinate and integrate the overall structural design between two different or interfacing construction types, such as modular and stick-built or multistory, stacked

modular construction. Provide substantiation of structural, consolidation/settlement analysis, etc., as applicable, through the interfaces

2. Paragraph 3.5.3.1, edited to reduce verbiage and added clarification requirement for geotech report to include compaction requirements for fill and backfill under buildings, sidewalks, other structures and open areas.

3. Attachement B: Revised Paragraph 2.12 and retitled Paragarph 2.13

REV 2.17 31 MARCH 2009

1. Made some minor edits to Attachment B.

REV 2.16 28 FEBRUARY 2009

1. Deleted Appendix H and reference thereto in paragraph 3.5.2.4.

2. Paragraph 3.5.2.3 added new (e):

   (e) Computer generated calculations must identify the program name, source, and version. Provide input data, including loads, loading diagrams, node diagrams, and adequate documentation to illustrate the design. The schematic models used for input must show, as a minimum, nodes/joints, element/members, materials/properties, and all loadings, induced settlements/deflections, etc., and a list of load combinations. Include an output listing for maximum/minimum stresses/forces and deflections for each element and the reactions for each loading case and combination.

3. Paragraph 3.5.2.4, revised third sentence to read:

   Show complete calculations for members subjected to ATFP loads, e.g., support members of glazed items (jambs, headers, sills), connections of windows to support members and connections of support members to the rest of the structure.

REV 2.15 31 JANUARY 2009

1. Numerous revisions made to Attachments A&B, per USACE Interior Design Advocate

2. Paragraph 3.7.1.6, changed term “CADD” to “CAD”, where possible.

REV 2.14 30 NOVEMBER 2008

1. Added new ATTACHMENT G **- DESIGN SUBMITTAL DIRECTORY AND SUBDIRECTORY FILE ARRANGEMENT.**

2. Added new ATTACHMENT H **- ANALYSIS OF WINDOW UNIT STRUCTURAL SUPPORT.**

3. Paragraph 3.5.2.4 (Design Analyses) For Security (Anti-Terrorism), added “See also Attachment H for analysis of window unit structural supports.”

4. Paragraph 3.5.3.1, Geotech investigations and reports, slightly reworded the following:

   “Include pH tests, salinity tests, resistivity measurements, etc., required to design corrosion control and grounding systems. Include the raw field data. Arrange a meeting with the Government subsequent to completion and evaluation of the site specific geotechnical exploration to outline any differences encountered that are inconsistent with

the Government provided preliminary soils information. Clearly outline differences which require changes in the foundation type, or pavement and earthwork requirements from that possible and contemplated using the Government furnished preliminary soils investigation, which result in a change to the design or construction. Any equitable adjustment is subject to the provisions of the contract's Differing Site Conditions Clause."

5. Revised the Table at paragraph 3.9.1, Submittal Distribution and Quantities. Revised 5th column to refer to non-BIM data to be furnished on CD-ROM or DVD as necessary; abbreviated 6th column heading "FFE"; Added 8th column for BIM data per attachment F to be furnished on DVD.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

6. Paragraph 3.9.2, Web based Design Submittals, added the clarification to provide BIM data on DVD, regardless of Web-Based Design Submittals. Only paper copies may be replaced by Web-based media, not other media.

7. Attachment B, paragraph 2.3, ELECTRONIC DOCUMENTS, updated to match Attachment F for BIM:

   "Provide unbound, electronic drawings in CAD and BIM. Provide all files needed to view complete drawings. Submit all text documents in Microsoft Word or Excel."

8. Attachment D, **SAMPLE FIRE PROTECTION AND LIFE SAFETY CODE REVIEW,** paragraph 1.2.4, corrected accessibility requirements to read:

   "UFAS and ADAAG criteria.(Uniform Federal Accessibility Standards, as required by the Architectural Barriers Act (PL 90-480) in 42 USC 4151-4157. Meet Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities, whenever they Provide equal or greater accessibility than UFAS. See Section 01 10 00, Paragraph 3 for facility specific criteria."

9. Paragraph 3.5.4, **LEED Documentation,** made revisions for mandatory LEED registration:

   Submittal requirements are as indicated in Attachment E, LEED 2.2 Documentation Requirements and Submittals Checklist. Submit all documentation indicated on Attachment E as due at final design at final design submittal (for fast-track projects with multiple final design submittals, this shall be at the last scheduled final design submittal). All project documentation related to LEED shall conform to USGBC requirements for both content and format, including audit requirements and be separate from other design analyses. Maintain and update the LEED documentation throughout project progress to construction closeout and shall compile product data, receipts, calculations and other data necessary to substantiate and support all credits claimed. The Government may audit any or all individual credits. Audit documentation is not required to be submitted unless requested. These requirements apply to all projects. If the project requires the Contractor to obtain USGBC certification, the Contractor shall also be responsible for obtaining USGBC certification and shall provide written evidence of certification with the construction closeout LEED documentation submittal. Install the USGBC building plaque at the location indicated by the Government upon receipt. If Contractor obtains USGBC interim design review, submit the USGBC review to the Government within 30 days of receipt for information only.

10. Paragraph 3.5.4.1, last sentence, revised from passive to active voice.

REV 2.13 30 SEPTEMBER 2008

1. Paragraph 3.7.1.6 f., added requirement for DOR to date his/her stamp and signature.

2. Paragraph 3.9.1, Submittal Distribution and Quantities, corrected table to indicate that US Army Information Systems Security Command (ISEC) only requires partial sets of design submittals.

3. Paragraphs 3.5.2.11 and 3.5.8.11(d), added “where applicable” to the SIPRNET requirements, because not all facilities have SIPRNET.

REV 2.12 16 SEPTEMBER 2008

1. Paragraph 3.5.4.1, deleted all language and let only the following:

   3.5.4.1 LEED Documentation for Technology Solution Set. If a building design complies fully with its technology solution set, when such is included in the Solicitation, use the data provided with the technology solution set when preparing LEED credit EA1 documentation. If the project requires USGBC certification and a building design complies fully with its technology solution set included in the Solicitation, the Government will provide a partially completed LEED Letter Template, without project energy cost, for the building. Project energy cost data must be added by the designer.

REV 2.11 29 AUGUST 2008

1. Paragraph 3.9.1, Submittal Distribution and Quantities, added US Army Information Systems Security Command (ISEC) for partial sets of design submittals.

2. Deleted note to specifier after Submittal Distribution and Quantities table, revised it and moved it to before Paragraph 3.9.3, Mailing of Design Submittals to clarify that specifier must determine the number of separate locations for mailing of submittals.

   NOTE TO SPECIFIER: Identify the number of separate physical locations for mailing of submittals. Do NOT require separate mailings for offices at the same building location. The number of separate mailings will not necessarily match the total numbers of copies of submittals.

3. Paragraphs 3.5.2.11 and 3.5.8.11(d), added “where applicable” to the SIPRNET requirements, because not all facilities have SIPRNET.

4. Paragraph 3.5.3.1, deleted last sentence, referring to “Section 01 33 16”. This sentence was inadvertently left in when this paragraph was moved from Section 01 10 00 to 01 33 16 in May 2008.

REV 2.10 31 JULY 2008

1. Paragraph 3.7, revised to stress that ITR requirements include documentation:

   3.7 FINAL DESIGN REQUIREMENTS

   <REV Include</REV> the 100% SID and 100% FF&E binders for government approval. <REV>The Contractor shall have performed independent technical reviews (ITR’s) and back-checks of previous comment resolutions, as required by Section 01 45 04.00 10 CONTRACTOR QUALITY CONTROL, including providing documentation thereof.</REV.

2. Corrected duplicated paragraph number 3.5.2.9 and subsequent numbers.

3. Revised paragraph 3.5.2.6 to match list of software for energy analysis in paragraph 3.5.5.2.

4. Revised paragraph 3.5.4.1 in its entirety to read as follows, due to compatibility issues between LEED calculations and energy savings calculations:

   "3.5.4.1 LEED Documentation for Technology Solution Set. If a building design complies fully with its technology solution set, when such is included in the Solicitation, use the data provided with the technology solution set when preparing LEED credit EA1 documentation. If project requires USGBC certification and a building design complies fully with its technology solution set, when included in the Solicitation, the Government will provide a partially completed LEED Letter Template, without project energy cost, for the building. Project energy cost data must be added by designer. EPACT compliance is measured as a percentage reduction in energy use. LEED Optimize Energy credit points are earned based on percentage reduction in energy cost. If the project does not require USGBC certification, it may substitute the EPACT energy use reduction percentage for energy cost reduction percentage to determine the LEED Optimize Energy points earned and it may substitute EPACT calculations for LEED calculations for this credit. If the project does not require USGBC certification and Section STATEMENT OF WORK includes a prescriptive path option for EPACT compliance for a building type, each building of that type that complies fully with its prescriptive path option may take the LEED Optimize Energy points that correspond to the energy use reduction percentage stated by the prescriptive path and LEED supporting calculations are not required. Projects that require USGBC certification must earn Optimize Energy points in accordance with LEED and must provide LEED supporting calculations (energy cost reduction) for this credit."

REV 2.9 30 MAY 2008

1. Paragraph 3.5.6, Specifications, clarified that the MASTERFORMAT 2004 numbering system is required when using UFGS for specifications.

2. Formatting edit. Moved Cathodic Protection design analyses from paragraph 3.5.8.10 to 3.5.2.11

   "3.5.2.11. For Cathodic Protection Systems, provide the following stamped report by the licensed corrosion engineer or NACE specialist with the first design submission. Clearly describe structures, systems or components in soil or water to be protected. Describe methods proposed for protection of each."

3. Paragraph 3.5.3, Geotechnical Investigations and Reports, brought in the information that formerly was in Section 01 10 00, paragraphs 5.2.2.2 and 5.2.2.3, consolidated and eliminated duplicate language.

REV 2.8 30 APRIL 2008

1. Paragraph 3.1.1, revised from "Government Approval" of the design quality control plan to "Government acceptance", to be consistent with Section 01 45 04.00 10, CONTRACTOR QUALITY CONTROL.

2. Paragraph 3.5.5 Energy Conservation, revised entire paragraph and split into subparagraphs.

3. Appendix F, paragraph 4.5, Mechanical, added: "Small diameter (less than 1-1/2" NPS) field-routed piping is not required in the model unless there are space constraints, is necessary for procurement or estimating purposes, or is essential to show operation."

4. Appendix F, paragraph 4.5.1, HVAC, revised last sentence to read: “All piping <REV> 1-1/2” NPS and larger</REV> shall be modeled.”

5. Appendix F, paragraph 4.6., Electrical/Telecommunications, added : “Small diameter (less than 1-1/2”Ø) field-routed conduit is not required in the BIM model unless there are space constraints, is necessary for procurement or estimating purposes, or is essential to show operation.”

6. Paragraph 3.5.8.5, replaced brackets around the various fuel types, as applicable with parentheses. No editing of this in Section 01 33 16. Section 01 10 00 is the statement of work where available or undesired fuel types are to be identified, not in Section 01 33 16

7. Paragraph 3.9.1, added a row to identify the COS for submittal purposes. Revised “CD-ROM” to “CD-ROM/DVD”. For the full size and half size paper drawings, specifications and design analyses, broke the numbers into full sets and partial sets, so that the Contractor can provide partial sets to those offices that only need to review their applicable portion of the design. Added a note to that effect. Added a note to specifier in the WORD version:

   “[NOTE TO SPECIFIER: Identify the numbers of complete sets and partial sets of design documentation that go to each review office. Do NOT require separate mailings and mailing addresses for offices at the same building location.]”

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

8. Paragraph 3.9.2, updated:

   As an alternative to the paper copies listed in the Table above, Web based design submittals will be acceptable provided a single hard-copy PDF based record set is provided to the Contracting Officer for record purposes. Where the contract requires the Contractor to submit documents to permitting authorities, the Contractor shall still provide those authorities paper copies (or in an alternate format where required by the authority). Web based design submittal information shall be provided with adequate security and availability to allow unlimited access to Government reviewers while preventing unauthorized access or modification. File sizes must be of manageable size for reviewers to quickly download or open on their computers. As a minimum, drawings shall be full scale on American National Standards Institute (ANSI) D sheets (34" x 22"). ”

9. Paragraph 3.9.3., Mailing of Design Submittals, added new sentence at the end of 3.9.3.1:

   “Assemble drawing sheets, specs, design analyses, etc. into individual sets; do not combine duplicate pages from individual sets so that the government has to assemble a set”.

10. Added new paragraph 3.9.3.3:

    “3.9.3.3 Provide partial sets of drawings, specifications, design analyses, etc., as designated in the Table in paragraph 3.9.1, to those reviewers who only need to review their applicable portions of the design, such as the various utilities. The details of which office receives what portion of the design documentation will be worked out after award.”

REV 2.7 28 MARCH 2008

1. Paragraph 3.5.5 corrected typo in third sentence.

2. Paragraphs 3.2 and 3.2.2, added clarification that the government may waive or shorten intermediate reviews for one or more design packages, when using Over the Shoulder Review or other partnering processes. The Government doesn't provide a Carte Blanc waiver to all packages (per request of CENWO).

3. Paragraphs 3.2.1, 3.4.2, 3.6, clarified that the time periods for government reviews are not up to the Contractor to determine if a shorter period than that stated is allowed . (per request of CENWO)

4. Paragraph 3.8, added language to final design complete documents to label them "for Construction" or other similar language (per request of CENWO).

5. Paragraph 3.5.7, Building Rendering, revised number of renderings from 2 to 3 in high resolution format, due to CENWO lesson learned.

6. Paragraph 3.9.1, clarified that in addition to plans and specifications deliverables, design documentation is also required in the number of hard copies listed in the table, per request of CENWO.

7. Added the following note to paragraphs 3.7.1.6, CAD System and Building Information Modeling (BIM), and 3.9.1, Submittal Distribution and Quantities: (NOTE: If this is a Single Award or Multiple Award, Indefinite Delivery/Indefinite Quantity Contract, this information will be provided for each task order)

8. Revised reference in Paragraph 2.1 of Attachment F to read "01 33 16"

REV 2.6 31 JANUARY 2008

1. Corrected Index to match paragraph titles.

REV 2.5 15 DECEMBER 2007

1. Made editorial change in paragraph 3.5.8.10 e.

2. Repeated some corrections from 15 November, as they inadvertently disappeared from the update.

3. Added paragraph 3.5.4.1, "EPACT Compliance Calculations."

4. Made general revisions to update the CAD/BIM requirements in the 3.7.1 Drawings sub-paragraphs. Added Appendix F, **BUILDING INFORMATION MODELING REQUIREMENTS** for FY08 and beyond projects. Added references to APPENDIX F in the Initial Design Conference and Stages of Design Submittals paragraphs.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

5. Re-titled paragraph 3.2 to: "DESIGN SUBMITTALS AND OVER-THE-SHOULDER PROGRESS REVIEWS" in order to emphasize and encourage voluntary, OTS progress review partnering processes.

6. Paragraph 3.2.3, added the words 'or to expedite" to the sentence discussing waiver of the formal interim review period when OTS procedures are adopted.

REV 2.4 15 NOVEMBER 2007

1. Added paragraph 3.5.2.8 (d):

"When the geotechnical report indicates expansive soils are present, indicate in the first piping design submittal how piping systems will be protected against damage or backfall/backflow due to soil heave (from penetration of slab to the 5 foot building line)."

2. Revised paragraph 3.5.8.10 (e) Cathodic Protection to read:

   "Provide the following stamped report by the licensed corrosion engineer or NACE specialist with the first design submission. Clearly define areas of structures or components in soil or water to be protected. Describe methods proposed for protection of each system."

3. Paragraph 3.9.3.1, revised second sentence to indicate that addresses will be provided after award of the contract or each task order if the contract is an ID/IQ type. Revised third sentence from passive to active voice.

   "…The Government will furnish the Contractor addresses where each copy shall be mailed to after award of the contract (or individual task order if this is an indefinite delivery/indefinite quantity, task order contract). Mail the submittals to [ADD] different addresses."

4. Revised title of Attachment D to "**SAMPLE FIRE PROTECTION AND LIFE SAFETY CODE REVIEW**" to clarify that it is a sample. Paragraph 3.3.3 refers to it as a sample checklist. The designer must develop the checklist and fill in the appropriate information. Also revised the contents listing at the beginning of the Section.

5. Updated the list of references in Attachment D to delete UFC's which are not applicable to MT projects and deleted dates of editions of some references, which have been updated.

6. Paragraph 3.10, revised name of Section 01 33 16 from "PROJECT CLOSEOUT" to "CLOSEOUT SUBMITTALS". That Section Title has been revised this month.

REV 2.3 15 OCTOBER 2007

1. Made two editorial changes. Deleted page break after Exhibit D to save a page and corrected spelling of the word "The" in sixth line of paragraph 3.5.5, Energy Conservation.

2. Paragraph 3.5.8.3 (b), added "Elevations" to architectural presentation.

3. Paragraphs 3.5.8.6 (a). (5) and (6), added clarification: "(where applicable to project scope)".

REV 2.2 25 SEPTEMBER 2007

1. Clarified Attachment C to indicate that all the parties enter comments into DrChecks throughout the design process, not just the Contractor. The Government's reviewers enter comments during design reviews and the Contractor enters and responds to comments resulting from design conferences or design review conferences. The Contractor responds to comments entered by either party during the design process. While not specifically noted in Section 01 33 16, the parties may jointly develop "Over the Shoulder Review" procedures that allow comments to be generated at times other than mentioned above. The clarifications are made to Attachment C, paragraphs 1.0, 4.0, 5.0 and 6.0.

2. Numbered the subparagraphs in attachment C, paragraphs 2 and 3.

REV 2.1 01 SEPTEMBER 2007

1. Corrected UFC reference for AT/FP in Paragraph 3.5.2.4

REV 2.0 15 AUGUST 2007

1. Revised all references from old numbering system to Master Format 2004

REV 1.12 15 JULY 2007

1. Correct UFC number in Paragraph 3.5.2.4

REV 1.11 15 JUNE 2007

1. Attachments A and B have been revised in their entirety.

   NOTE: User entry fields relating to SID/CID packages have been removed. Attachment B will no longer be included in RFPs that are for Barracks facilities.

REV 1.10 15 MAY 2007

1. Extensively re-worked paragraph 3.5 INTERIM DESIGN REQUIREMENTS. Updated format is:

   3.5.1 Drawings

   3.5.2 Design Analyses

   3.5.3 Geotechnical Investigations and Reports

   3.5.4 LEED Documentation

   3.5.5 Energy Conservation

   3.5.6 Specifications

   3.5.7 Building Rendering

   3.5.8 Interim Building Design Contents

2. Paragraph 3.5.2, Design Analyses, extensively re-formatted the paragraph and renumbered subparagraphs; pulled in substantiation requirements from other locations in 01012 and in 01010 to this paragraph. Re-arranged some of the analyses under different design areas, per CCR's and requests. New format is more consistent and easier to follow.

3. Inserted new paragraph 3.5.3 Geotechnical Investigations and reports with two categories: Vehicle pavements and Foundations, Embankments, Fills and Other Structures.

4. Paragraph 3.5.4 redesignated as LEED; updated this paragraph with latest revisions from HQ and CESAS, MT team members.

5. Paragraph 3.5.5 re-designated as Energy conservation.

6. Paragraph 3.5.6 re-designated as Specifications; added reference to CSI's Manu-Spec; added requirement to identify, where appropriate, specific products chosen to meet the

contract requirements (i.e., manufacturers' brand names and model numbers or similar product information).

7. Designated paragraph 3.5.7 as Building Rendering.

8. Designated paragraph 3.5.8 as Interim Building Design Contents; re-formatted the paragraph and subparagraphs for clarity; moved design analyses information out of this paragraph and consolidated it in "Design Analyses" paragraph.

9. Paragraph 3.7.1, Drawings (for final design requirements) re-formatted and numbered subparagraphs for clarity and consistency.

10. Paragraph 3.7.2, Design Analyses (for final design), edited out duplicate information from Interim design analyses, clarified that the analyses should be updated and finalized, renumbered subparagraphs.

11. Paragraph 3.7.4, Submittal Register, clarified to strengthen requirement for the Contractor to update and submit the submittal register with each design package.

12. Re-numbered subparagraphs in paragraph 3.7.6, Acceptance and Release for Construction, for consistency and clarity.

REV 1.9 15 APRIL 2007

1. Removed "piping" from Flue piping size and location in Para 3.5.5.6.2

2. Paragraphs 3.7.1.1 through 3.7.1.4, updated for FY08 Mandatory BIM coverage.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 1.8 15 MARCH 2007

1. Paragraph 3.5.2.2: Revised the Energy Savings requirements to provide a 30% savings in energy consumption vs. 30% savings in cost, and clarified other requirements.

REV 1.7 15 FEBRUARY 2007

1. Paragraph 1.2, DESIGNER OF RECORD, added the following new sentence:

   "If the deliverables are not ready for release for construction, they should be identified as "preliminary" or "not for release for construction" or by using some other appropriate designation."

   Background: This is only a clarification. The applicable DOR is expected to stamp and sign his/her design products and deliverables as standard professional practice and to verify that the product or deliverable was performed by or performance was directly supervised by and reviewed by the DOR. If the Contractor or DOR is concerned about inappropriate use of the product or deliverable, then the DOR should designate the product or deliverable as preliminary, not for construction or use another appropriate designation.

2. Added "ATTACHMENT E LEED 2.2 DOCUMENTATION REQUIREMENTS AND SUBMITTALS CHECKLIST" to the Table of Contents for Section 01012.

3. Paragraph 3.3.3, Design and Code Checklists, added reference to Attachment E for LEED submittals checklist.

4. Paragraph 3.5.2.1 LEED Documentation, extensively edited:

   "The Contractor shall assign a LEED Accredited Professional, responsible to track LEED planning performance and documentation for each LEED credit< through construction closeout. Incorporate LEED credits in the plans, specifications and design analyses. Develop LEED supporting documentation as a separable portion of the Design Analysis and provide with each required design submittal. Include the LEED Project checklist for each non-exempt facility (one checklist may be provided for multiple identical facilities) and the LEED 2.2 Documentation Requirements and Submittals Checklist with each submittal. Final design submittal for each portion of the work must include all required design documentation relating to that portion of work (example - all site credit design documents with final site design). Submittal requirements are as indicated in Attachment E, LEED 2.2 Documentation Requirements and Submittals Checklist. If the project is required to be USGBC certified in paragraph 6 of the Statement of Work, use online LEED Letter Templates and obtain USGBC Design Phase Review. Provide full support to the design phase review process, including credit audits. Submit all documentation and, if applicable, USGBC Design Phase Review ruling at final design (for fast-track projects with multiple final design submittals, this shall be at the last scheduled final design submittal). NOTE: The Government does not imply that meeting the requirements of LEED 2.2 Documentation Requirements and Submittals Checklist is equivalent to or a substitute for meeting USGBC certification requirements. In the case of conflict, the more stringent requirement shall apply to projects required to be USGBC certified. All project documentation related to LEED shall conform to USGBC requirements for both content and format, including audit requirements and be separate from other design analyses. The Contractor shall maintain and update the LEED documentation throughout project progress. The designers of record shall prepare and present LEED documentation with calculations and other data necessary to substantiate and support all design documents submitted. For projects that do not require USGBC certification, the Government may audit any or all individual credits. Provide the additional documentation marked "Provide for Credit Audit Only" in LEED 2.2 Documentation Requirements and Submittals Checklist if requested for any individual credit. Audit documentation is not required unless requested."

5. Added paragraph 3.5.5.14:

   "LEED: Project checklist indicating credits claimed, all required design phase supporting documentation and completed submittals checklist."

6. Paragraph 3.7.2, inserted this sentence: "All disciplines review the LEED design analysis in conjunction with their discipline-specific design analysis; include a copy of the separable LEED design analysis in all design analysis submittals."

7. Paragraph 3.10, added this sentence: "Update LEED design phase documentation during construction as needed to reflect construction changes and advancing project completion status (example - Commissioning Plan updates during construction phase) and include updated LEED documentation in construction closeout submittal."

8. Added Attachment E, "**LEED 2.2 DOCUMENTATION REQUIREMENTS AND SUBMITTALS CHECKLIST"**, with note for Specifier to attach EXCEL Spreadsheet filenamed "LEED 2.2 SUBMITTAL CHECKLIST.XLS"

   NOTE: This attachment is added automatically by the Wizard.

REV 1.6 25 JANUARY 2007

1. Added paragraph 3.5.2.2 to describe the substantiation of 30% energy savings from ASHRAE 90.1:

"3.5.2.2 Energy Conservation Documentation:

Interim and Final Design submittals which address energy consuming systems, (heating, cooling, service hot water, lighting, power, etc.) must include calculations which demonstrate and document (a) the baseline energy consumption for the facility or facilities under contract, that would meet the requirements of ANSI/ASHRAE/IESNA Standard 90.1-2004 and (b) the energy consumption of the facility or facilities under contract utilizing the materials and methods required by this construction contract. The calculation methodology utilized for this documentation and analysis shall follow the guidelines set forth in Appendix G of ASHRAE 90.1-2004, with the exception that receptacle and process loads can be omitted from the calculation. See Section 01010, Paragraph 5. This calculation shall address all energy consuming systems in a single integrated methodology. Individual calculations for heating, cooling, power, lighting, power, etc. systems will not be acceptable."

REV 1.5 21 NOVEMBER 2006

1. Revised 2nd sentence in paragraph 3.5.1 to read: "Should the Army decide to submit this project for formal USGBC certification in the future, documentation shall be able to withstand USGBC scrutiny and be able to earn claimed LEED points."

2. Revised 5th sentence in paragraph 3.5.1 to read: "All project documentation related to LEED shall conform to USGBC requirements for both content and format, including audit requirements and be separate from other design analyses."

3. Paragraph 3.7.1, per CADD proponent request, added the following: The design documents shall be in compliance with the A/E/C CADD Standard. The DB Contractor shall use the approved vertical Corps of Engineers title blocks and borders on all drawings with the appropriate firm name included within the title block area.

4. Paragraph 3.7.1.1 revised to read (FY 07 projects):

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

   "Use of CADD is mandatory and use of the latest Building Information technologies (BIM) is encouraged. All files shall be fully compatible with [AutoCAD 2000 or higher] [MicroStation V8 or higher]. Save all design CADD files as [AutoCAD 2000 or higher] [MicroStation V8 or higher] files. The Corps of Engineers will be moving to the incorporation BIM technology into our processes to facilitate: design development, design review, contract document production, visualization, quantity takeoffs, project scheduling, and as-built deliverables. The Contractor has the option to execute the design effort using BIM technology. The BIM must be compliant with the latest version of the Industry Foundation Classes (IFC) as established by the International Alliance for Interoperability (IAI). The IFCs provide a standard format for BIM to allow sharing of information between domain and discipline software systems."

5. Revised paragraph 3.7.1.2 to read:

   "3.7.1.2 Electronic Drawing Files

   In addition to the native CADD design files, provide separate electronic drawing files (in editable CADD format and Adobe Acrobat PDF version 6.0 or higher) for each project drawing.

Each file (both CADD and PDF) shall represent one complete drawing from the drawing set, including the date, submittal phase, and border. Each drawing file shall be completely independent of any data in any other file, including fonts and shapes not included with the basic CADD software program utilized. Drawing files with external references or special fonts are not acceptable. All displayed graphic elements on all levels of the drawing files shall be part of the project drawing image. The drawing files shall not contain any graphic element that is not part of the drawing image."

REV 1.4 08 NOVEMBER 2006

1. Added Paragraph 3.7.1.1.1 CADD Data Final File Format; discusses geo-referenced coordinates of all changes made to the existing site (facility footprint, utility line installations and alterations, roads, parking areas, etc) as a result of this contract (CADD, GIS).

2. Revised Paragraph 3.9.2 Web-Based Design Submittals to require one hard copy and a CD-ROM if web-based design submittals are provided.

3. Revised Paragraph 3.7.1, full-size drawing size to "22 X 34".

REV 1.3 05 SEPTEMBER 2006

1. Paragraph 3.5.2, Design analysis, revise sixth sentence to include substantiation of footcandle levels. Revised wording:

   "3.5.2 Design analysis. …For parts including electrical work, lighting calculations to determine maintained foot-candle levels, electrical load analysis and calculations, electrical short circuit and protective device coordination analysis and calculations and arc fault calculations shall be included…"

REV 1.1 21 JULY 2006

1. Paragraph 3.5.1, to comply with July 2006 ACSIM Implementation Guidance for SDD SPiRiT/LEED, added: The Contractor shall assign a LEED Accredited Professional, responsible to track LEED planning and performance for each LEED credit. Document LEED credits in the plans, specifications and design analyses.

REV 1.0 15 MAY 2006

1. Baseline Document

01 33 16 DESIGN AFTER AWARD – TASK ORDER SPECIFIC

NO LONGER USED – SEE 01 33 16 DESIGN AFTER AWARD

REV 1.7 31 MARCH 2010

1. Para. 3.5.8.11, added additional details for the Telecom system design drawings.

2. Table 3.9.1 Submittal distribution and Quantities, Incorporated standard mandatory default submittals for USAISEC. They want one electronic copy of all info that is applicable to Telecommunications or to Telecomm/SIPRNET Rooms.

REV 1.6 30 SEPTEMBER 2009

1. Removed reference to Attachement E. The version in the original ID/IQ will be used.

REV 1.5 31 JULY 2009

1. Added the option in paragraph 3.9.2, Web Base Design Submittals, to require paper copies of design drawings for Installation personnel, in lieu of allowing the Contractor the option to only provide web based submittals. Added note to the table of distribution of copies of design submittals, revised paragraph 3.9.2 and added option in Wizard, accordingly.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 1.4 30 NOVEMBER 2008

1. Revised the Table at paragraph 3.9.1, Submittal Distribution and Quantities. Revised 5th column to refer to non-BIM data to be furnished on CD-ROM or DVD as necessary; abbreviated 6th column heading "FFE"; Added 8th column for BIM data per attachment F to be furnished on DVD.

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

2. Paragraph 3.9.2, Web based Design Submittals, added the clarification to provide BIM data on DVD, regardless of Web-Based Design Submittals. Only paper copies may be replaced by Web-based media, not other media.

REV 1.3 30 SEPTEMBER 2008

1. Paragraph 3.9.1, Submittal Distribution and Quantities, corrected table to indicate that US Army Information Systems Security Command (ISEC) only requires partial sets of design submittals.

REV 1.2 29 AUGUST 2008

1. Paragraph 3.9.1, Submittal Distribution and Quantities, added US Army Information Systems Security Command (ISEC) for partial sets of design submittals.

2. Deleted note to specifier after Submittal Distribution and Quantities table, revised it and moved it to before Paragraph 3.9.3, Mailing of Design Submittals to clarify that specifier must determine the number of separate locations for mailing of submittals.

   NOTE TO SPECIFIER: Identify the number of separate physical locations for mailing of submittals. Do NOT require separate mailings for offices at the same building location. The number of separate mailings will not necessarily match the total numbers of copies of submittals.

REV 1.1 30 APRIL 2008

1. Paragraph 1.1.1, revised reference to Section 01 45 04.00 10 to 01 33 16

2. Appendix F, paragraph 4.5, Mechanical, added: "Small diameter (less than 1-1/2" NPS) field-routed piping is not required in the model unless there are space constraints, is necessary for procurement or estimating purposes, or is essential to show operation."

3. Appendix F, paragraph 4.5.1, HVAC, revised last sentence to read: "All piping <REV> 1-1/2" NPS and larger</REV> shall be modeled."

4. Appendix F, paragraph 4.6., Electrical/Telecommunications, added: "Small diameter (less than 1-1/2"Ø) field-routed conduit is not required in the BIM model unless there are space

constraints, is necessary for procurement or estimating purposes, or is essential to show operation."

5. Paragraph 3.5.8.5, replaced brackets around the various fuel types, as applicable with parentheses. No editing of this in Section 01 33 16. Section 01 10 00 is the statement of work where available or undesired fuel types are to be identified, not in Section 01 33 16

6. Paragraph 3.9.1, added a row to identify the COS for submittal purposes. Revised "CD-ROM" to "CD-ROM/DVD".

   NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

7. Paragraph 3.9.2, updated:

   "3.9.2 Web based Design Submittals
   Web based design submittals will be acceptable provided a single hard-copy and DVD PDF based record set are provided to the Contracting Officer for record purposes. Web based design submittal information shall be provided with adequate security and availability to allow unlimited access to Government reviewers while preventing unauthorized access or modification. File sizes must be of manageable size for reviewers to quickly download or open on their computers. As a minimum, drawings shall be full scale on American National Standards Institute (ANSI) D sheets (34" x 22"). "

REV 1.0 28 MARCH 2008

1. Baseline Document

01 45 02.01 10 QUALITY CONTROL SYSTEMS (QCS)

REV 3.0 30 JUNE 2008

1. Renumbered document from SECTION 01 45 02.00 10 to SECTION 01 45 01.10 to conform with January 08 numbering and update in the Unified Facilities Guides Specifications (UFGS). Edited entire document to essentially read the same as the UFGS, except for minor grammar edits plus included appropriate references to design-build unique wording.

REV 2.1 15 OCTBER 2007

1. Paragraphs 2 and 3, eliminated references to 3 ½ floppy disk formats or minimum equipment system requirements.

REV 2.0 15 AUGUST 2007

1. Revised all references from old numbering system to Master Format 2004

REV 1.1 19 SEPTEMBER 2006

1. General Edits and technical updates concerning system requirements, formats, form of submission, etc.

REV 1.0 15 MAY 2006

1. Baseline Document

01 45 04.00 10 CONTRACTOR QUALITY CONTROL

REV 2.15 30 NOVEMBER 2011

1. Paragraph 3.4, Revised sentence regarding additional duties to refer to Section 00 73 10 if this is a task order: “Assign the CQC System Manager no other duties (except may also serve as Safety and Health Officer, if qualified and if allowed by Section 00 73 00, or by Section 00 73 10 if this is a task order)”.

REV 2.14 31 MARCH 2011

1. Added new paragraph 3.2.2.4.

   "Develop and maintain effective, acceptable design configuration management (DCM) procedures to control and track all revisions to the design documents after the Interim Design Submission through submission of the As-Built documents. Include the DCM plan as a subset of the DQC Plan. See Section ‘Design After Award’."

REV 2.13 31 JANUARY 2011

1. Paragraph 3.1, clarified that regardless of what title the contractor calls their senior on-site representative, when the contract uses terms such as “project superintendent” ,“on-site project superintendent” or “on-site project manager”, it is referring to the senior on-site representative who is in overall charge of all activities on the project site:

   “The site project superintendent in this context shall be the highest level manager at the site, responsible for the overall site activities, including but not limited to quality and production. The site project superintendent shall maintain a physical presence at the site at all times, except as otherwise acceptable to the Contracting Officer, and shall be responsible for all construction and construction related activities at the site. Different contractors have different names for the on-site overall project supervisor. For clarification, the term “site project superintendent” refers to the Contractor’s senior site representative, “on-site manager”, or similar title, as those terms are used in contract Clause 52.236-7, “Superintendence by the Contractor” and in the Division 00 Section(s) of the solicitation for this contract or task order, or elsewhere in the contract. It does not refer to a construction superintendent, unless that person is also the Contractor’s permanently assigned senior site representative in charge of all on-site activities.”

REV 2.12 30 APRIL 2010

1. Paragraph 3.7.4, clarified title: “Furnishing or Transportation of Samples for Government Quality Assurance Testing”

2. Paragraph 3.4.2, changed title of Site Safety Manager to Site Safety and Health Officer

REV 2.11 31 MARCH 2010

1. Paragraph 3.4.1, removed all references to Site safety and Health Officer. The SSHO is no longer on the CQC staff.

REV 2.10 31 DECEMBER 2009

1. Para. 3.4.2, clarified that graduate construction manager must have a BS/BA from and accredited college program.

2. Paragraph 3.4.4.1 Area Qualifications, clarified that construction managers must have BS or BA degree in construction management.

3. Paragraph 3.4.4.1.10, clarified that the paragraph relates to telecommunications system.

REV 2.9 31 AUGUST 2009

1. Paragraph 3.4.2, clarified that the CQC System Manager, if a graduate construction manager, shall possess a BA or BS degree from an ACCE accredited four year construction management college program.

2. In paragraph 3.4.4.1, area qualifications, clarified for civil, mechanical, electrical, structural and plumbing that a construction manager likewise to the CQC system manager is a BA or BS graduate in construction management.

3. Paragraph 3,4,4,1,10, clarified that these are area qualifications for the telecommunications system.

4. Paragraph 3.2.2.1, clarified who performs the ITR , described the intent of the ITR and defined minimum requirements. Note that the ITR is for quality control and is not intended to require second guessing the design approaches nor require recommending alternative design solutions:

   "As a minimum, competent, independent reviewers identified in the DQC Plan shall review all documents. Use personnel who were not involved in the design effort to produce the design to perform ~~The same element that produced the product shall not perform~~ the independent technical review (ITR). The ITR is intended as a quality control check of the design. Include, at least, but necessarily limited to, a review of the contract requirements (the accepted contract or task order proposal and amended RFP), the basis of design, design calculations, the design configuration management documentation and check the design documents for errors, omissions, and for coordination and design integration. The ITR team is not required to examine, compare or comment concerning alternate design solutions but should concentrate on ensuring that the design meets the contract requirements. Correct errors and deficiencies in the design documents prior to submitting them to the Government."

REV 2.8 5 NOVEMBER 2008

1. Paragraph 3.4.2, regarding whether the Chief, Quality Control may also act as the Site Safety and Health Officer, added a Wizard option that inserts Section 00 73 10 for task orders and ID/IQ base contracts and inserts Section 00 73 00 for C-Type contracts.

REV 2.7 31 OCTOBER 2008

1. Paragraph 3.4.4.1.9, revised area matrix CQC coverage and qualifications to:

   "Registered Fire Protection Engineer with 4 years related experience<REV> or engineering technician with 5 yrs related experience (but see requirements for Fire Protection Engineer of Record to witness final testing in Section 01 10 00, paragraph 5.10, Fire Protection)"

2. Paragraph 3.4.3.1.10, moved designer qualifications to Section 01 10 00, Paragraph 5.7.6, Telecommunications Systems and replaced CQC qualifications with:

   "QC personnel assigned to the installation of this system or any of its components shall be Building Industry Consulting Services International (BICSI) Registered Cabling Installers, Technician Level. Submit documentation of current BICSI certification. In lieu of BICSI certification, QC personnel shall have a minimum of 5 years experience in the installation of the specified copper and fiber optic cable and components. They shall have factory or factory approved certification from each equipment manufacturer indicating that they are qualified to install and test the provided products. QC personnel shall witness and certify the testing of telecommunications cabling and equipment."

3. Paragraph 3.2, Quality Control Plan, clarified that Special Inspection program is to be included in the QC Plan.

4. Paragraph 3.2.1.2, added to also include identifying those responsible for performing and documenting code inspections and special inspection program.

5. Added Paragraph 3.2.1.10 to include list of code inspections and the special inspection program in the QC plan.

REV 2.6 31 JULY 2008

1. Paragraph 3.9, Documentation, added 3.9.1.10:

   “Provide documentation of design quality control activities. For independent design reviews, provide, as a minimum, identity of the ITR team, the ITR review comments, responses and the record of resolution of the comments”.

REV 2.5 30 JUNE 2008

1. Paragraph 3.4.3.1, simplified sentence to improve grammar, without intending to change meaning. Removed “as part of the Contractor’s QC organization” and restated as: “…provide <REV>specialized CQC personnel</REV>”. The intent is that these persons are part of the CQC organization, not outside the organization (e.g., production personnel).

2. Paragraph 3.9.1, under documentation, revised the Section number for “QCS System” from SECTION 01 45 02.00 10 to SECTION 01 45 01.10 to conform with January 2008 numbering update in the Unified Facilities Guides Specifications (UFGS).

3. Paragraph 3.2.2.2, deleted last sentence: “Engineer Regulation 1110-1-12 provides some useful information in developing checklists.” The current version of this ER no longer discusses checklists.

REV 2.4 28 MARCH 2008

1. Paragraph 1.1, References, deleted all dates of documents and added: “Refer to the latest edition, as of the date of the contract solicitation.

2. Paragraph 3.4.5, due to the varying cost for the course, "Construction Quality Management for Contractors" across the Corps, deleted the $125 fee and added: “Inquire of the District or Division sponsoring the course for fees and other expenses involved, if any, for attendance at this course.”

3. Revised dollar amount for Capability Recheck in Paragraph 3.7.2.2 from $500 to $1,375

4. Revised paragraph 3.2.1.1 last sentence to read: "A CQC System Manager shall report to the project superintendent or someone higher in the contractor's organization."

5. Revised Paragraph 3.4.3.1 read: "In addition to CQC personnel specified elsewhere in the contract provide as part of the CQC organization specialized personnel to assist the CQC System Manager in accordance with paragraph titled Area Qualifications."

REV 2.3 31 JANUARY 2008

1. Edited document for clarity from passive to active voice.

REV 2.2 15 DECEMBER 2007

1. Paragraph 3.4.2, clarified the requirements for CQC systems manager. The manager must be an ICC certified commercial (or residential, where applicable) building inspector only if not a graduate engineer, architect or construction management graduate, (i.e., if they are a technician).

2. Added following new Paragraph 3.4.4.1.10

   "Telecommunications: Telecommunications design must be performed and stamped by a Registered Communications Distribution Designer (RCDD) with 2 yrs related experience or person with 5 yrs related experience. The installers assigned to the installation of the telecommunications system or any of its components shall have a minimum of 3 years experience in the installation of the specified copper and fiber optic cable and components."

REV 2.1 15 OCTOBER 2007

3. Paragraph 3.2.2.3, deleted last two extraneous sentences:

4. Paragraph 3.4 3, CQC Personnel, numbered the subparagraphs under this paragraph and bolded portion of first sentence in 3.4.3.2 for emphasis.

5. Changed paragraph number 3.4.5, concerning fire protection engineer Q.C. representative qualifications, to subparagraph 3.4.4.1.9. This necessitated renumbering of the two subsequent paragraphs to 3.4.5 and 3.4.6.

6. Paragraph 3.9, DOCUMENTATION, corrected and revised the subparagraph numbers under this paragraph.

REV 2.0 15 AUGUST 2007

1. Revised all references from old numbering system to Master Format 2004

REV 1.7 15 APRIL 2007

1. Paragraphs 3.4.1 and 3.4.2, Quality Control Manager duties and responsibilities. Clarified that the Manager may also serve as the Health and Safety Officer, if qualified and if allowed by Section 00800.

REV 1.6 25 JANUARY 2007

1. Deleted first sentence in paragraph 3.4.7, Organizational changes, to clarify that specific QC personnel only have to be on the jobsite when work applicable to them is being performed.

   "The Contractor shall maintain the CQC staff at full strength at all times."

REV 1.5 27 SEPTEMBER 2006

1. Revisions from the May 2006 MT Construction Management Conference in KC were implemented after consensus reached on CQC personnel qualifications:

   (a) Paragraph 3.4.2 second sentence revised to read: The CQC System Manager shall be a graduate engineer, graduate architect, a graduate of construction management, or an engineering technician with at least 2 years of college and an ICC certification as a Commercial Building Inspector (Residential Building Inspector certification will

be required for Military Family Housing projects), with a minimum of 5 years construction experience on construction similar to this contract.

(b) Added plumbing QC person (can be duplicate with other person, if qualified).

(c) Graduate QC personnel must have minimum 4 years related experience (except CQC system manager with minimum 5 years related experience).

(d) The civil, mechanical, electrical, and non-graduate personnel must be engineering technicians. These and the structural and plumbing non-degreed inspectors must have ICC certification in their area of expertise.

(e) The structural non-graduate personnel must have ICC certification as reinforced concrete special inspector and structural steel and bolting special inspector, as applicable to the type of construction.

REV 1.4 08 SEPTEMBER 2006

1. Revised paragraph 3.2.2.2. Moved first six sentences to Section 01320, as they deal with design scheduling. Revised last sentence, because new ER 1110-1-12 does not include design checklists.

   "The Contractor shall include in the DQC Plan the discipline-specific checklists to be used during the design and quality control of each submittal. These completed checklists shall be submitted at each design phase as part of the project documentation. Engineer Regulation 1110-1-12 provides some useful information in developing checklists."

2. Revised second and third sentences of paragraph 3.9 to reference requirement to use QCS to prepare the daily report: "These records shall include the work of subcontractors and suppliers using government-provided software, QCS (see Section 01312) The report includes, as a minimum, the following information:..."

REV 1.3 07 AUGUST 2006

1. Revised paragraph 3.1, General Requirements, per approval by CECW-CE (Norko), to state that the Contractor shall include all inspections required by the ICC codes in the CQC plan and shall perform the inspections. The Contractor shall also develop a program for and perform any Special Inspections required by the Codes. This role was decided in the Contract Execution workshop in Kansas City, MO. in May 2006.

REV 1.2 14 JULY 2006

1. Baseline Document

01 45 04.00 10 CONTRACTOR QUALITY CONTROL – TASK ORDER SPECIFIC

REV 1.2 30 APRIL 2010

1. Paragraph 3.7.4, clarified title: "Furnishing or Transportation of Samples for Government Quality Assurance Testing"

2. Paragraph 3.4.2, changed title of Site Safety Manager to Site Safety and Health Officer

REV 1.1 5 NOVEMBER 2008

1. Added paragraph 3.4.2, with a reference to Section 00 73 10, as to whether or not the Chief Qualify Control may also serve as the Site Safety and Health Officer.

REV 1.0 28 MARCH 2008

1. Baseline Document

01 50 02 TEMPORARY CONSTRUCTION FACILITIES

REV 2.6 30 APRIL 2010

1. Paragraphs 1.6.1 and 1.6.2, edited toilet facilities to provide specifier options where no sewer and water is available for either a unisex or separate men and women's portable toilets with hand sanitizer feature.

2. Paragraph 1.6.1, added "at least" in front of one water closet and in front of one lavatory.

REV 2.5 31 AUGUST 2009

1. Paragraph 1.2.1, added reference to Section 00 72 00 in addition to Section 00 73 00 for Utility Availability requirements.

REV 2.4 30 APRIL 2009

1. Cleaned up the previous edits to remove red and struck out words.

2. Paragraph 1.6.1, added requirements for at least twice weekly janitorial service, conference room large enough for [*] personnel, [*] phone service and wired LAN connections, power outlets (*denotes specifier selected number).

REV 2.3 30 NOVEMBER 2008

1. Revised document from passive to active voice and removed excessive verbiage.

2. Revised paragraph 1.3.2 to identify the standard layout and construction details in EP 310-1-6a:

   "Erect a project sign and a site safety sign with informational details as provided by the Government at the Post award conference, within 15 days prior to any work activity on project site. Update the safety sign data daily, with light colored metallic or non-metallic numerals. Remove the signs from the site upon completion of the project. Engineer Pamphlet EP 310-1-6a contains the standardized layout and construction details for the signs. It can be found through a GOOGLE Search or try http://www.usace.army.mil/publications/eng-pamphlets/ep310-1-6a/s-16.pdf."

REV 2.2 30 SEPTEMBER 2008

1. Paragraphs 1.6.1 or 1.6.2; to accommodate remote locations, without access to water or sewer or locations, such as Alaska, the specifier can now choose to allow a portable toilet facility in lieu of connections to sewer and water.

   NOTE: New entry fields/questions were added to the Wizard to accommodate the revision above.

REV 2.1 31 JANUARY 2008

1. Fixed spelling error in title.

2. Fixed spelling error in TOC 1.3

3. Corrected Index to match paragraph titles. Corrected reference to Section 00 73 00.

REV 2.0 15 AUGUST 2007

1. Revised all references from old numbering system to Master Format 2004

REV 1.1 08 SEPTEMBER 2006

1. Paragraph 1.3.1, Bulletin Board, revised to erect bulletin immediately upon commencing onsite work, to distinguish from starting design work.

2. (b) Paragraph 1.3.2, Project and Safety Signs revised to read "….within 15 days prior to any work activity on project site…." , in lieu of within 15 days of notice to proceed.

3. (c) Paragraph 1.6.2 Trailer-Type Mobile Office, revised last sentence to require tie-down anchors in accordance with the Safety Manual EM 385-1-1, rather than prescribing four corners.

REV 1.0 15 MAY 2006

1. Baseline Document

01 50 02 TEMPORARY CONSTRUCTION FACILITIES – TASK ORDER SPECIFIC

REV 1.5 31 JULY 2010

1. Paragraph 1.3.2, updated web link to find EP 310-1-6a.

REV 1.4 30 APRIL 2010

1. Paragraphs 1.6.1 and 1.6.2, edited toilet facilities to provide specifier options where no sewer and water is available for either a unisex or separate men and women's portable toilets with hand sanitizer feature.

2. Paragraph 1.6.1, added "at least" in front of one water closet and in front of one lavatory.

REV 1.3 30 APRIL 2009

1. Paragraph 1.6.1, added requirements for at least twice weekly janitorial service, conference room large enough for [*] personnel, [*] phone service and wired LAN connections, power outlets (*denotes specifier selected number).

REV 1.2 30 NOVEMBER 2008

1. Revised document from passive to active voice to match revised Base Section 01 50 02.

2. Added paragraphs a.3, 1.3.1 (placeholder) and 1.3.2 to identify the standard layout and construction details in EP 310-1-6a:

   "1.3. BULLETIN BOARD, PROJECT SIGN, AND PROJECT SAFETY SIGN

   1.3.1 Bulletin Board (As Specified in Base contract)

   1.3.2 Project and Safety Signs (Added to Stress standardization of signs, in the event that the Base ID/IQ Section 01 50 02 does not contain this information)

   Erect a project sign and a site safety sign with informational details as provided by the Government at the Post award conference, within 15 days prior to any work activity on project site. Update the safety sign data daily, with light colored metallic or non-metallic numerals. Remove the signs from the site upon completion of the project. Engineer Pamphlet EP 310-1-6a contains the standardized layout and construction details for the

signs. It can be found through a GOOGLE Search or try http://www.usace.army.mil/publications/eng-pamphlets/ep310-1-6a/s-16.pdf."

REV 1.1 30 SEPTEMBER 2008

1. Paragraphs 1.6.1 or 1.6.2; to accommodate remote locations, without access to water or sewer or locations, such as Alaska, the specifier can now choose to allow a portable toilet facility in lieu of connections to sewer and water.

   NOTE: New entry fields/questions were added to the Wizard to accommodate the revision above.

REV 1.0 28 MARCH 2008

1. Baseline Document

01 57 20.00 10 ENVIRONMENTAL PROTECTION

REV 3.2 30 JUNE 2010

1. Para. 1.2.3.17, AR 200-5, Pest Management, has been superseded by AR 200-1, Chapter 5, Pest Management.

REV 3.1 28 FEBRUARY 2010

2. Paragraph 1.2.3.11, added:

   "NOTE: The Solid Waste Diversion Reports are separate documentation that the LEED documentation."

REV 3.0 31 JANUARY 2008

1. Made a major revision to revise the document from passive to active voice.

2. Corrected Index to match body of document.

3. Added paragraph 3.10, Military Munitions.

REV 2.0 15 AUGUST 2007

1. Revised all references from old numbering system to Master Format 2004

REV 1.2 25 MAY 2007

1. Re-formatted paragraph numbering below the fourth level.

2. Paragraph 1.2.3.11, edited the Solid Waste Management Plan requirements per direction from Headquarters MT team.

REV 1.1 15 FEBRUARY 2007

1. Combined paragraphs 1.2.3.12 with 1.2.3.11 and re-wrote paragraph 1.2.3.12

REV 1.0 15 MAY 2006

1. Baseline Document

01 57 73 STORM WATER POLLUTION PREVENTION MEASURES (TASK ORDER SPECIFIC)

REV 1.0 15 AUGUST 2007

1. Baseline Document

This file is created by the user and uploaded into the Wizard.

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

01 62 35 RECYCLED/RECOVERED MATERIALS

REV 2.0 15 AUGUST 2007

1. Revised all references from old numbering system to Master Format 2004

REV 1.0 15 MAY 2006

1. Baseline Document

01 78 02.00 10 CLOSEOUT SUBMITTALS

REV 2.14 31 JULY 2010

1. Paragraph 1.12, deleted reference to DD 1354 Checklist and updated link to UFC 1-300-08.

REV 2.13 30 SEPTEMBER 2010

1. Paragraph 1.1 As-Built Drawings, Added Note to Specifier: Do you need a set of reproducible mylar as-builts?. If yes, the following wording is added: “,one set of reproducible mylar drawings”…

2. Paragraph 1.2.7 Final As-Built Drawings, if mylars are required, added ”, one copy of affected mylars”…

NOTE: New entry fields/questions were added to the Wizard to accommodate this revision.

REV 2.12 30 APRIL 2010

1. Added paragraph 1.12, “INTERIM FORM DD1354 "TRANSFER AND ACCEPTANCE OF MILITARY REAL PROPERTY” to have the Contractor update the draft DD 1354 that was (were) furnished with the final design package(s).

REV 2.11 31 AUGUST 2009

1. Moved Field Training from paragraph 1.6.9 to a separate paragraph 1.7 and renumbered subsequent paragraphs 1.8 through 1.11, accordingly, updated Index page.

2. Corrected Case of a few subparagraphs from CAPS to Title Case.

REV 2.10 30 NOVEMBER 2008

1. Paragraph 1.2.9.1, added this sentence: “See also the LEED documentation requirements in Section 01 33 16, DESIGN AFTER AWARD.”

REV 2.9 30 MAY 2008

1. Paragraph 1.2.6. corrected misplacement of “Government” from last sentence to previous sentence in paragraph.

2. Paragraph 1.2.7, changed “CD-ROM” to “DVD.”

3. Paragraph 1.10, corrected last sentence.

REV 2.8 30 APRIL 2008

1. Paragraph 1.4.5.4 (d). spelled out ADP as “Automated Data Processing (ADP)”.

2. Paragraph 1.2.7, clarified that this is a “submittal”, in concert with paragraph 1.2.1 (G).

REV 2.7 28 FEBRUARY 2008

1. Changed the term “contract drawings” to “drawings” or “construction drawings” to clarify that we are referring to the design-builder’s drawings.

REV 2.6 31 JANUARY 2008

1. Fixed typo in Paragraph 1.4.2.1 in sentence “Submit warranty information made available during the construction phase……..

2. Corrected Index to match body of document.

REV 2.5 15 DECEMBER 2007

1. Updated as-built requirements for BIM requirements and deleted duplicated description of as-built files, media description and quantities.

REV 2.4 15 NOVEMBER 2007

1. Revised section title to “Closeout Submittals”.

2. Completed editing text from passive voice to active voice.

REV 2.3 15 OCTOBER 2007

1. Made numerous editing revisions, primarily revising from passive to active voice; edited out superfluous text (e.g., “The Contractor shall”, etc.); removed some brackets from text that weren’t intended to be selective by the specifier. Added subparagraph numbers to paragraph 1.2.2.

REV 2.2 15 SEPTEMBER 2007

1. Retained the 01 September marked revisions to assure visibility of those revisions within the same month.

2. Revised the warranty call timeframes in 1.4.5.

   1.4.5.1 First Priority Code 1 Perform onsite inspection to evaluate situation, and determine course of action within 4 hours, initiate work within 6 hours and work continuously to completion or relief.

   1.4.5.2 Second Priority Code 2 Perform onsite inspection to evaluate situation, and determine course of action within 8 hours, initiate work within 24 hours and work continuously to completion or relief.

   1.4.5.3 Third Priority Code 3 < All other work to be initiated within 3 work days and work continuously to completion or relief.

3. In 1.4.5.4, made several revisions to the "Warranty Service Priority List":

Under Code 1 electrical, added “(e): Power or lighting failure to an area, facility, portion of a facility, which may adversely impact health, safety, security, or the installation's mission requirement, or which may result in damage to property.”

Revised code 2 electrical:

“(a) Power failure (no power) for unoccupied buildings or portions thereof or branch circuits within occupied buildings, not listed as Code 1.
(b) Receptacle and lights, not listed as code 1.”

Revised Code 1 Heat:

“(a) Area power failure affecting heat.”

(b) Heater in unit not working.”

Revised Code 2 Heat:

“All heating system failures not listed as Code 1.”

4. Renamed and revised paragraph 1.6.10.2 as follows:

“1.6.10.12 Fire Alarm and Detection Systems

(a) The maintenance manual shall include description of maintenance for all equipment, including inspection, periodic preventive maintenance, fault diagnosis, and repair or replacement of defective components.

(b) Provide all software; database with complete identification of programmable portions of system equipment and devices, and all other system programming data on all modes of the system; connecting cables; and proprietary equipment necessary for the operation , maintenance, testing, repair and programming, etc. of the system and that may be required for implementation of future changes to the fire system (additional and/or relocated initiating devices, notification devices, etc.

(c) Provide all system and equipment technical data and computer software with the requisite rights to Government use, in accordance with the applicable contract clauses.

(d) Training shall include software and programming required for the effective operation, maintenance, testing, diagnostics and expansion of the system.”

REV 2.1 01 SEPTEMBER 2007

1. Under SD02 with respect to as-built drawings, deleted reference to “mylar” drawings and revised number of blue-line prints to “3” to eliminate inconsistency with 15 May 2007 update. This paragraph was inadvertently missed in the 15 May update.

2. Added the following sentence to the end of Paragraph 1.2.6:

“Include locations of all explorations, logs of all explorations, and results of all laboratory testing, including those provided by the Government, performed for the design of the project.

REV 2.0 15 AUGUST 2007

1. Revised all references from old numbering system to Master Format 2004

REV 1.9 15 JULY 2007

1. In Paragraph 1.2.7.1. changed the requirement for one (1) CD-Rom to two (2)

REV 1.8 15 MAY 2007

1. General edits made to add line spacing.

2. Paragraphs 1.2.7.2 and 1.2.7.3, replaced mylar as-builts with three hard copy sets..

   1.2.7.2 Three full hardcopy sets. ~~One full set of reproducible Mylars~~.

   1.2.7.3 The record set of approved working as-built drawings

   In the event the DB Contractor accomplishes additional work after this submittal, which changes the as-built conditions, the DB Contractor shall furnish a new CD-ROM with all drawing sheets ~~,new full size set of reproducible Mylars of affected sheets,~~ and three new blue line ~~copy~~ copies of affected sheets which depict additional changes

REV 1.7 15 APRIL 2007

1. Revised Paragraph 1.2.9.1 LEED Documentation as follows:

   "Update LEED documentation on at least a monthly basis and have it available for review by the Government on the jobsite at all times during construction. Submit the final LEED Project Checklist(s), final LEED submittals checklist and complete project documentation, verifying the final LEED score and establishing the final rating. ~~For USGBC certification projects, submit all documentation and USGBC formal ruling.~~ Provide full support to the validation review process, including ~~USGBC~~ credit audits."

2. Removed the last sentence of both paragraphs in Paragraph 1.8 LEED REVIEW MEETINGS.

REV 1.6 15 FEBRUARY 2007

1. Inserted new paragraph 1.7, LEED REVIEW MEETINGS, to the table of contents and renumbered the subsequent RED ZONE MEETING and FINAL CLEANING paragraphs.

2. Paragraph 1.2.9.1 LEED Documentation, revised to read:

   "Update LEED documentation on at least a monthly basis and have it available for review by the Government on the jobsite at all times during construction. Submit the final LEED Project Checklist(s), final LEED submittals checklist and complete project documentation, verifying the final LEED score and establishing the final rating. For USGBC certification projects, submit all documentation and USGBC formal ruling. Provide full support to the certification review process, including USGBC credit audits."

3. Added new paragraph 1.8 LEED REVIEW MEETINGS:

4. Re-numbered paragraphs: RED ZONE MEETING and FINAL CLEANING.

REV 1.5 25 JANUARY 2007

1. Added paragraph 1.2.9.2, GIS Documentation:

"Provide final geo-referenced GIS database of the new building footprint along with any changes made to exterior of the building. The intent of capturing the final building footprint and exterior modifications in a GIS database is to provide the installation with a data set of the comprehensive changes made to the landscape as a result of the construction project. This data set will be incorporated into the installations existing GIS Masterplan or Enterprise GIS system. The GIS database deliverable shall follow a standard template provided to the Contractor by the Government, adhere to detailed specifications outlined in ECB No 2006-15, and be documented using the Federal Geographic Data Committee (FGDC) metadata standard."

REV 1.4 21 NOVEMBER 2006

1. Revised paragraph 1.4.1 to add new sentence: "Prior to the end of the one year warranty, the Contracting Officer may conduct an infrared roof survey on any project involving a membrane roofing system."

2. Revised paragraph 1.4.2.1 to add new third sentence: " In the event of phased turn-over of the contract, the contractor will update his Warranty Management Plan as necessary to include latest information required."

3. Revised second to last sentence in paragraph of 1.4.2.1 to read: "Joint 4 month and 9 month warranty inspections shall be conducted, measured from time of acceptance, by the Contractor, Contracting Officer and the Customer Representative. "

4. Paragraph 1.4.4, Pre-Warranty Conference, clarified that "Prior to contract completion**,** or completion of any phase or portion of contract to be turned over, and at a time designated by the Contracting Officer, the Contractor shall meet with the Contracting Officer to develop a mutual understanding with respect to the requirements of this clause."

5. Paragraph 1.6.1.2, Operations and Maintenance Manuals, clarified last sentence to read: "The Government will withhold an amount representing $20,000, as non-progressed work, until submittal and approval of all O&M manuals are complete."

6. Paragraph 1.6.9, Field Training, added third sentence to read: "The training is to be conducted during hours of normal working time and shall start after the system is functionally complete."

REV 1.3 08 SEPTEMBER 2006

1. Revised paragraph 1.2.9.1 LEED Documentation to read:

   "1.2.9.1 LEED Documentation

   Submit the final LEED-NC Registered Project Checklist and complete project documentation, verifying the final LEED score and establishing the final rating. Documentation must be able to withstand USGBC scrutiny and be able to earn claimed LEED points. All project documentation related to LEED shall conform to USGBC requirements for both content and format, including audit requirements."

REV 1.2 08 SEPTEMBER 2006

1. Paragraph 1.1, Submittals, SD03 Product Data, As-Built Record of Equipment and Materials requires two copies of the record listing the as-built materials and equipment incorporated into the construction of the project. Clarified that this is the installed property list required under paragraph 1.3.1 in this Section.

2. Paragraph 1.4.1 states that "As a part of the one year warranty inspection, the Contracting Officer may conduct an infrared roof survey on any project involving a membrane roofing system." Revised this sentence, due to no other reference for a one year warranty inspection in the contract RFP documents, to read: "Prior to the end of the one year warranty, the Contracting Officer may conduct an infrared roof survey on any project involving a membrane roofing system."

3. Paragraph 1.4.2.1, Warranty Management Plan, second sentence reads "At least 30 days before the planned pre-warranty conference, the Contractor shall submit the warranty management plan for government approval. Added the following sentence: "In the event of phased turn-over of the contract, the contractor will update his Warranty Management Plan as necessary to include latest information required."

4. Paragraph 1.4.4, Revised sentence to read "Prior to contract completion, or completion of any phase or portion of contract to be turned over, and at a time designated by the Contracting Officer, the Contractor shall meet with the Contracting Officer to develop a mutual understanding with respect to the requirements of this clause."

5. Paragraph 1.6.1.2 revised to read: "…all O&M manuals are complete".

6. Paragraph 1.6.9, Field Training – third sentence reads "The training, period, conducted during hours of normal working time, shall start after the system is functionally completed." Revised to read "The training is to be conducted during hours of normal working time and shall start after the system is functionally complete."

REV 1.1 21 JULY 2006

1. To comply with July 2006 ACSIM Implementation Guidance for SDD SPiRiT/LEED, added paragraph 1.2.9.1,LEED Documentation: "Submit the final LEED-NC Registered Project Checklist, verifying the final LEED score and establishing the final rating."

REV 1.0 15 MAY 2006

1. Baseline Document

APPENDIX K UTILITY COST INFORMATION

NOTE: This document can be downloaded through the wizard to allow for specifier fill-in. The document would need to then be uploaded as an appendix for inclusion in the final RFP.

REV 1.3 31 OCTOBER 2008

1. Revised the title of APPENDIX K from FUEL COST INFORMATION to UTILITY COST INFORMATION.

REV 1.2 29 AUGUST 2008

1. Revised title of APPENDIX K from LIFE CYCLE COST ANALYSIS FUEL COST INFORMATION to FUEL COST INFORMATION and deleted all references to Life Cycle Cost Analysis. The Model RFP doesn't require an LCCA for selection of systems. The contract has a performance requirement to reduce energy consumption by 30% from the ASHRAE 90.1 Baseline.

REV 1.1 28 MARCH 2008

1. Revised reference to Design after Award section from "01012" to "01 33 16".

REV 1.0 25 JANUARY 2007

1. Baseline Document

   https://ff.cecer.army.mil/rfp_wizard/docs/refs/APPENDIX_K.doc

2. The specifier is to fill in the information for the Installation. The Offerors may use this information in preparing their design proposals. After award, the Contractor shall use it for design development and to substantiate the 30% energy savings requirements in the contract.

APPENDIX L LEED PROJECT CREDIT GUIDANCE

NOTE: This document can be downloaded through the wizard. The document would need to then be uploaded as an appendix for inclusion in the final RFP.

REV 3.0 30 JUNE 2012

1. Updated for Paragraph 5, per guidance from SAS.

REV 2.3 31 JANUARY 2011

1. Updated credit EA-1

REV 2.2 16 JUNE 2010

1. Updated to address mandatory LEED Credits for increased sustainability requirements addressed in 16 June 2010 Mid-June 2010 update.

REV 2.1 30 SEPTEMBER 2009

1. Updated to add option for LEED 3.0

REV 2.0 30 NOVEMBER 2008

1. General Revisions

REV 1.2 25 MAY 2007

1. Changed LEED Credit MR2.1 Construction Waste Management, from “Required” to “Preferred”. The remarks are revised to refer the reader to Section 01010: “See Paragraph CONSTRUCTION AND DEMOLITION (C&D) WASTE MANAGEMENT for project requirement."

REV 1.1 28 FEBRUARY 2007

1. Designated as Appendix L

2. Revised wording to match Section 01010, paragraph 5.11, when 50% waste diversion is not a mandatory LEED Credit.

REV 1.0 23 FEBRUARY 2007

1. Baseline Document

   https://ff.cecer.army.mil/rfp_wizard/docs/refs/Appendix_L.doc

APPENDIX M LEED OWNER’S PROJECT REQUIREMENTS

NOTE: THIS DOCUMENT CAN BE DOWNLOADED THROUGH THE WIZARD. THE DOCUMENT WOULD NEED TO THEN BE UPLOADED AS AN APPENDIX FOR INCLUSION IN THE FINAL RFP.

REV 1.1 30 APRIL 2010

1. Updated to remove references to LEED 2.2

REV 1.0 15 SEPTEBMER 2007

1. Baseline Document

   http://en.sas.usace.army.mil/ae/spreadsheet/uloprt.doc

APPENDIX N LEED REQUIREMENTS FOR MULTIPLE CONTRACTOR COMBINED PROJECT

REV 2.1 30 SEPTEMBER 2009

1. Updated to add option for LEED 3.0

REV 2.0 30 NOVEMBER 2008

1. General Update

REV 1.0 15 SEPTEBMER 2007

1. Baseline Document

APPENDIX O LEED STRATEGY TABLES

REV 1.1 30 SEPTEMBER 2009

1. Updated to add option for LEED 3.0

   https://ff.cecer.army.mil/rfp_wizard/docs/refs/Sample_Appendix O_LEED_Multiple_Contractor_Response_Table.xls

REV 1.0 15 SEPTEBMER 2007

1. Baseline Document

   https://ff.cecer.army.mil/rfp_wizard/docs/refs/MASTER LEED BDBN Strategy Table807.xls

APPENDIX P USGBC REGISTRATION FOR ARMY PROJECTS

REV 1.0 30 NOVEMBER 2008

1. Baseline Document

APPENDIX Q AREA COMPUTATION

REV 2.1 30 SEPTEMBER 2010

1. Added “Covered but not enclosed spaces, canopies, training, and assembly areas” under Half-Scope Spaces

REV 2.0 31 MAY 2009

1. Revised code in Wizard to not allow the uploading of unique Appendix Q.

REV 1.0 15 SEPTEBMER 2007

1. Baseline Document

APPENDIX R PRELIMINARY SUBMITTAL REGISTER

REV 1.6 30 JUNE 2012

1. Changed references from LCCA's in Appendix T to LCCA documentation per 01 33 16.
2. Moved qualifications of functional area lighting testor from Appendix T to Section 01 10 00, paragraph 5 per April 2012 Rewrite of paragraph 5.

REV 1.5 30 SEPTEMBER 2010

1. Appendix T, Functional area Lighting Controls Strategy, added 2 Life Cycle Cost Analyses, qualifications of the testing agent, test results.

REV 1.4 30 SEPTEMBER 2010

1. Removed the partially completed Excel Spreadsheet as the default document. The Wizard Default Document will be a Word Document that instructs the Specifier to complete the Preliminary Submittal Register provided at the Wizard link, to include all submittals required by Division 00, project specific paragraphs 3 and 6 plus any other additional submittals required by Specifier added appendices. Upon completion, the Specifier must upload the completed Preliminary Submittal Register into the Wizard generated project RFP. The Wizard output will be an Acrobat ".pdf file". After award, Section 01 33 00 Submittal Procedures, requires the Government to furnish the Excel Spreadsheet to the Contractor, which is the RMS data input file used to generate the RMS Submittal Register. The Default Appendix R will read similar to:

   "NOTE TO SPECIFIER:

   1. Appendix R" will be a Adobe Acrobat pdf version of the Specifier completed "Sample Preliminary Submittal Register." The Sample Register is Excel Spreadsheet format of the RMS Input Form 4288A, which serves two purposes.

   2. First, The Register allows the both Government and the Proposers to see and estimate the cost of the Division 00 and Division 01 submittals required by the contract in addition to the Contractor generated submittal register items developed during Design After Award.

   3. Secondly, after award, the Government will provide the Contractor the actual Excel Spreadsheet for the Contractor to input the data into RMS to create the Submittal Register used during contract performance. See Section 01 33 00 (Submittal Procedures), paragraph 1.8 (Submittal Register) for the contract requirements.

   4. For the contract or task order Solicitation, the Specifier must complete APPENDIX R, found at the following link: http://rfpwizard.cecer.army.mil/HTML/Docs/Refs/Sample%20Preliminary%20Submittal%20Register.xls edit, save/convert to PDF file, and then upload it into the Wizard as Appendix R.

   5. The RMS Input Form initially includes submittals required by the standardized Model RFP Division 00 and Division 01 Sections, except Section 01 10 00, paragraph 3. Examine the Special Contract Requirements, paragraphs 3 and 6 and any other locally developed portions of the RFP for required submittals and add them to the Input Form. Do not duplicate submittals already listed in the standardized RMS Input Form, because the Contractor needs to submit this information only once.

6. After award, the Government provides the Excel spreadsheet to the selected contractor to develop and input the RMS Input form for the submittal register required by paragraph 1.8 of Section 01 33 00, Submittals."

REV 1.3 31 AUGUST 2010

1. Section 01 33 16, Para. 3.7, Added Submittal for Independent Technical Review

REV 1.2 31 JULY 2010

1. Updated to add BIM Model submission and DD 1354.

REV 1.1 28 FEBRUARY 2010

1. Added Submittal: 01 78 02.00 10, Para. 1.2.3.11 Non-Hazardous Solid Waste Diversion Reports

REV 1.0 31 OCTOBER 2009

1. Document was removed from Section 01 33 00 SUBMITTALS and made a separate APPENDIX.

APPENDIX S MANUFACTURING PERFORMANCE REQUIREMENTS FOR .PLUMBING FIXTURES FROM THE ENERGY POLICY ACT OF 1992 (PUBLIC LAW 102-486).

REV 2.0 30 JUNE 2012

1. DELETED

REV 1.0 31 MAY 2011

1. Baseline Document

APPENDIX T FUNCTIONAL AREA LIGHTING CONTROL STRATEGY

REV 2.0 30 JUNE 2012

1. DELETED

REV 1.0 31 JULY 2011

1. Baseline Document

01525 SAFETY AND OCCUPATIONAL HEALTH REQUIREMENTS

DO NOT USE

NOTE: DISTRICTS ARE NOT TO ADD THIS SECTION TO MT SOLICITATIONS. THE NECESSARY INFORMATION IN THIS SECTION IS INCLUDED IN CONTRACT CLAUSE: “ACCIDENT PREVENTION” AND SECTION 00 73 00: “SPECIAL CONTRACT REQUIREMENTS”, PER AGREEMENT WITH HQUSACE SAFETY OFFICE.

01572 CONSTRUCTION AND DEMOLITION WAST MANAGEMENT

DO NOT USE

NOTE: DISTRICTS ARE NOT TO ADD THIS SECTION TO MT SOLICITATIONS. THE NECESSARY INFORMATION IN THIS SECTION IS INCLUDED IN SECTION 01 10 00, PARAGRAPH 5 AND SECTION 01 57 20.00 10.