0# A. .$/0,+ S697'22%- (679,$

0'# S6. .-',$/ S694/(2$%42/$ N%7,

0''# S6. .-',$/ S694/(2$%42/$ C/(2%42 P,$*/(%(+ .3/(, (679,$

1#= INFORMATIONA" SUBMITTA"S

A# G6%-'1'4%2'/(D%2%: F/$ I(*2%--,$ %(+ A$43'2,426$%- H%$+&%$, C/(*6-2%(2#

B# P$//1 /1 C,$2'1'4%2'/(: P$/0'+, 4/.8 /1 7%(61%426$,$*H*D /11'4'%- 4,$2'1'4%2'/(/$ %44$,+'2%2'/(+/467,(2 '(+'4%2'() .$//1 /1 *2%26* %* % A6%-'1',+ %(+ %623/$'@,+ .$/0'+,$ /1 23, .$'7%$8 I(2,)$%2,+W',)%(+A44,** C/(2$/- P$/+642*#

C# P$/+642 T,*2 R,./$2*: F/$ 4/7.-'%(4, &'23 %44,**'9'-'28 $,A6'$,7,(2*5 9%*,+ /(,0%-6%2'/(/1 4/7.$,3,(*'0, 2,*2* .,$1/$7,+98 7%(61%426$,$%(+ &'2(,**,+98 % A6%-'1',+2,*2'() %),(485 1/$ +//$ 3%$+&%$, /(+//$* -/4%2,+'(%44,**'9-, $/62,*#

1# C/7.-'%(4, &'23 I--'(/'* A44,**'9'-'28 C/+, S&'() D//$ O.,('() F/$4,: P$/0'+, %(/2%$'@,+C,$2'1'4%2, /1 IAC C/7.-'%(2 D//$ O.,('() F/$4, /1 %-- *&'() %(+ *-'+'() +//$*# T3, 4,$2'1'4%2, 76*2-'*2 %-- +//$ (679,$*5 $//7 (%7,*5 %(+ 7,%*6$,++//$ /.,('() 1/$4, /1 ,%43 +//$#

D# W%$$%(28: S.,4'%- &%$$%(28 *.,4'1',+ '(23'* S,42'/(#

1#> C"OSEOUT SUBMITTA"S

A# M%'(2,(%(4, D%2%: F/$,%43 28., /1 +//$ 3%$+&%$, 2/ '(4-6+, '(7%'(2,(%(4, 7%(6%-*# I(4-6+, 1'(%- 3%$+&%$,#

1#6 GUA"ITY ASSURANCE

A# I(*2%--,$ G6%-'1'4%2'/(*: I(*2%--,$*5 2$%'(,+ 98 23, .$'7%$8 .$/+642 7%(61%426$,$*5 &'23 % 7'('767 : 8,%$* +/467,(2,+ ,<.,$',(4, '(*2%--'() 9/23 *2%(+%$+ %(+ ,-,42$'1',+ 96'-+,$* 3%$+&%$, *'7'-%$ '(7%2,$'%-5 +,*')(5 %(+ ,<2,(2 2/ 23%2 '(+'4%2,+ 1/$ 23'* P$/B,42 %(+ &3/*, &/$? 3%* $,*6-2,+'(4/(*2$642'/(&'23 % $,4/$+ /1 *644,**16-'(*,$0'4, .,$1/$7%(4,#

B# M%(61%426$,$* G6%-'1'4%2'/(*: E()%), A6%-'1',+ 7%(61%426$,$* &'23 % 7'('767 > 8,%$* /1 +/467,(2,+ ,<.,$',(4, '(.$/+64'() 3%$+&%$, %(+ ,A6'.7,(2*'7'-%$ 2/ 23%2 '(+'4%2,+ 1/$ 23'* .$/B,42 %(+ 23%2 3%0, % .$/0,($,4/$+ /1 *644,**16-'(*,$0'4, .,$1/$7%(4,#

C# D//$ H%$+&%$, S6. .-',$ G6%-'1'4%2'/(*: E<.,$',(4.7132O7($)-5.00129(*)-7.7.7.7.7.7.7.7.7.07(2)0.312

E# S/6$4, "'7'2%2'/(*: O92%'(,%43 28., /1+//$ 3%$+&%$, 1$/7 % *'()-, 7%(61%426$,$#

1# P$/0'+, ,-,42$'1',+ +//$ 3%$+&%$, 1$/7 *%7, 7%(61%426$,$ %* 7,43%('4%- +//$ 3%$+&%$,5 6(-,** /23,$&'*, '(+'4%2,+# M%(61%426$,$* 23%2 .,$1/$7 ,-,42$'4%- 7/+'1'4%2'/(* %(+ 23%2 %$, -'*2,+ 98 % 2,*2'() %(+ '(*.,42'() %),(48 %44,.2%9-, 2/ %623/$'2',* 3%0'() B6$'*+'42'/(%$, %44,.2%9-,#

2# P$/0'+, ,-,42$/7,43%('4%- +//$ 3%$+&%$, 1$/7 23, *%7, 7%(61%426$,$ %* 7,43%('4%- +//$ 3%$+&%$,5 6(-,** /23,$&'*, '(+'4%2,+#

F# F'$, R%2,+ D//$ A**,79-',*: W3,$, 1'$, $%2,+ +//$ %**,79-',* %$, '(+'4%2,+5 .$/0'+, +//$ 3%$+&%$, $%2,+ 1/$ 6*, '(%**,79-',* 4/7.-8'() &'23 NFPA 80 23%2 %$, -'*2,+ %(+ -%9,-,+ 98 % A6%-'1',+ 2,*2'() %),(485 1/$ 1'$, .$/2,42'/($%2'()*'(+'4%2,+5 9%*,+ /(2,*2'() %2 ./*'2'0, .$,**6$, %44/$+'() 2/ NFPA 2>2 /$ U" 10C5 6(-,** /23,$&'*, '(+'4%2,+#

!# S7/?, %(+ D$%12 C/(2$/- D//$ A**,79-',*: W3,$, *7/?, %(+ +$%12 4/(2$/- +//$ %**,79-',* %$, $,A6'$,+5 .$/0'+, +//$ 3%$+&%$, 23%2 7,,2 $,A6'$,7,(2* /1 %**,79-',* 2,*2,+ %44/$+'() 2/ U" 178= %(+ '(*2%--,+ '(4/7.-'%(4, &'23 NFPA 10>#

1# A'$ ",%?%), R%2,: M%<'767 %'$-,%?%), /10#: 417/*A# 12# H: 46# 7 .,$ 7'(62,/*A# 7D %2 23, 2,*2,+ .$,**6$, +'11,$,(2'%- /1 0#: '(43 &) H7> P%D /1 &%2,$#

H# E-,42$'1',+ D//$ H%$+&%$,: "'*2,+ %(+ -%9,-,+ %* +,1'(,+ '(NFPA 705 A$2'4-, 1005 98 % 2,*2'() %),(48 %44,.2%9-, 2/ %623/$'2',* 3%0'() B6$'*+'42'/(#

I# M,%(* /1E)$,** D//$*: "%243,*+/ (/2$,A6'$, 7/$, 23%(1> -91H67 ND 2/ $,-,%*, 23, -%243# "/4?* +/ (/2$,A6'$, 6*, /1 %?,85 2//-5 /$*.,4'%-?(/&-,+), 1/$ /.,$%2'/(#

J# A44,**'9'-'28 R,A6'$,7,(2*: C/7.-8 &'23 %..-'4%9-, .$/0'*'/(*'(23, DOJ℃* 2010 ADA S2%(+%$+* 1/$ A44,**'9-, D,*')(23, ABA S2%(+%$+* /1 23, F,+,$%- %),(48 3%0'() B6$'*+'42'/(%(+ ICC A117#1 1/$ +//$ 3%$+&%$, /(+//$* '(%(%44,**'9-, $/62,#

1# P$/0'+, /.,$%2'() +,0'4,* 23%2 +/ (/2$,A6'$, 2')32)$%*.'()5 .'(43'()5 /$ 2&'*2'() /1 23, &$'*2 %(+ 23%2 /.,$%2, &'23 %1/$4, /1 (/2 7/$, 23%(> -91H22#2 ND#

2# C/7.-8 &'23 23, 1/--/&'() 7%<'767 /.,('() 1/$4, $,A6'$,7,(2*:

%# I(2,$'/$5 N/(F'$, R%2,+ H'(),+ D//$*: > -91H22#2 ND %..-',+ .,$.,(+'46-%$ 2/ +//$#

9# S-'+'() /$ F/-+'() D//$*: > -91H22#2 ND %..-',+ .%$%--,-2/ +//$ %2 -%243#

4# F'$, D//$*: M'('767 /.,('() 1/$4, %--/&%9-, 98 %623/$'2',* 3%0'() B6$'*+'42'/(#

:# B,0,-$%'*,+ 23$,*3/-+* &'23 % *-/., /1 (/2 7/$, 23%(1:2# P$/0'+, 23$,*3/-+* (/2 7/$, 23%(1/2 '(43 H1: 77D 3')3#

=# C-/*,$*: A+B6*2 +//$ %(+)%2, 4-/*,$ *&,,. .,$'/+* */ 23%25 1$/7 %(/.,(./*'2'/(/1 10 +,)$,,*5 23, 2'7, $,A6'$,+2/ 7/0, 23, +//$ 2/ %./*'2'/(/1 12 +,)$,,* 1$/7 23, -%243 '* > *,4/(+* 7'('767#

E# P$, S697'22%- C/(1,$,(4,: C/(+642 4//$+'(%2'/(4/(1,$,(4, '(4/7.-'%(4, &'23 $,A6'$,7,(2* '(D'0'*'/(01 S,42'/(;P$/B,42 M,,2'()*; &'23 %22,(+%(4, 98 $,.$,*,(2%2'0,* /1 S6..-',$H*D5 I(*2%--,$H*D5 %(+ C/(2$%42/$H*D 2/ $,0',& .$/.,$ 7,23/+* %(+ .$/4,+6$,* 1/$ $,4,'0'()5 3%(+-'()5 %(+ '(*2%--'() +//$ 3%$+&%$,#

1# P$'/$ 2/ '(*2%--%2'/(/1 +//$ 3%$+&%$,5 %$$%(), 1/$ 7%(61%426$,$*℃ $,.$,*,(2%2'0,* 2/ 3/-+ %.$/B,42 *.,4'1'4 2$%'('() 7,,2'() 2/ '(*2$642 23, '(*2%--'() 4/(2$%42/$*℃ .,$*/((,- /(23, .$/.,$ '(*2%--%2'/(%(+ %+B6*27,(2 /1 23,'$ $,*.,42'0, .$/+642*# P$/+642 2$%'('() 2/ 9, %22,(+,+ 98 '(*2%--,$* /1 +//$ 3%$+&%$, H'(4-6+'() ,-,42$/7,43%('4%- 3%$+&%$,D 1/$

%-67'(675 3/--/& 7,2%- %(+ &//+ +//$*# T$%'('() &'-- '(4-6+, 23, 6*, /1 '(*2%--%2'/(7%(6%-*5 3%$+&%$, *43,+6-,*5 2,7 .-%2,*%(+ .38*'4%- .$/+642 *%7 .-,* %* $,A6'$,+#

2# I(*.,42 %(+ +'*46** ,-,42$'4%- $/6)3'() '(5 ./&,$ *6..-8 4/((,42'/(*5 %(+ /23,$.$,.%$%2/$8 &/$? .,$1/$7,+98 /23,2%+,*#

:# R,0',&*,A6,(4, /1 /.,$%2'/((%$$%2'0,*1/$,%43 6('A6, %44,** 4/(2$/--,+ /.,('()#

=# R,0',&%(+1'(%-'@, 4/(*2$642'/(*43,+6-, %(+0,$'18 %0%'-%9'-'28 /1 7%2,$'%-*#

># R,0',&23, $,A6'$,+'(*.,42'()52,*2'()54/7 7'**'/('()5%(++,7/(*2$%2'/(.$/4,+6$,*#

1#7 DE"IVERY5 STORA ! E5 AND HAND"IN !

A# I(0,(2/$8 +//$ 3%$+&%$, /($,4,'.2 %(+ .$/0'+, *,46$, -/4? 6. 1/$ +//$ 3%$+&%$, +,-'0,$,+ 2/ P$/B,42 *'2,# D/ (/2 *2/$, ,-,42$/('4 %44,** 4/(2$/- 3%$+&%$,5 */12&%$, /$ %44,**/$',* %2 P$/B,42 *'2, &'23/62 .$'/$ %623/$'@%2'/(#

B# R,4,'0, O&(,$.$/0'+,+ 48-'(+,$*5 %(+ .$/0'+, % *,46$, -/4? 6. 1/$ 48-'(+,$* +,-'0,$,+ 2/ 23, P$/B,42 *'2,#

C# T%) ,%43 '2,7 /$.%4?%),*,.%$%2,-8 &'23 '+,(2'1'4%2'/(4//$+'(%2,+ &'23 23, 1'(%- +//$ 3%$+&%$, *43,+6-,5%(+'(4-6+, '(*2%--%2'/('(*2$642'/(*52,7 .-%2,*5%(+ (,4,**%$8 1%*2,(,$* &'23 ,%43 '2,7 /$.%4?%),#

D# D,-'0,$5 %* %..-'4%9-, %-- 7%(61%426$, *6..-',+5 .,$7%(,(2 ?,8*5 %44,** 4/(2$/- 4$,+,(2'%-*5 */12&%$, %(+ $,-%2,+ %44,**/$',* +'$,42-8 2/ O&(,$ 0'% '(.,$*/(+,-'0,$85 $,)'*2,$,+ 7%'- /$ /0,$(')32 .%4?%),*,$0'4,#

1#8 COORDINATION

A# C//$+'(%2, -%8/62 %(+ '(*2%--%2'/(/1 1-//$ $,4,**,+ +//$ 3%$+&%$, &'23 1-//$ 4/(*2$642'/(# C%*2 %(43/$'() '(*,$2* '(2/ 4/(4$,2,#

B# I(*2%--%2'/(T,7 .-%2,*: D'*2$'962, 1/$ +//$*5 1$%7,*5 %(+ /23,$ &/$? *.,4'1',+ 2/ 9, 1%42/$8 .$,.%$,+# C3,4? S3/. D$%&'()* /1 /23,$ &/$? 2/ 4/(1'$7 23%2 %+,A6%2, .$/0'*'/(* %$, 7%+, 1/$ -/4%2'() %(+'(*2%--'() +//$ 3%$+&%$, 2/ 4/7 .-8 &'23 '(+'4%2,+$,A6'$,7,(2*#

C# S,46$'28: C//$+'(%2, '(*2%--%2'/(/1 +//$ 3%$+&%$,5 ?,8'()5 %(+ %44,** 4/(2$/- &'23 O&(,$C* *,46$'28 4/(*6-2%(2#

D# O&(,$ P$/0'+,+ "/4? C8-'(+,$*:

1# C//$+'(%2, +//$ 3%$+&%$, *697'22%- 2/ %--/& 1/$ O&(,$ %42'0'2',* /1 ,*2%9-'*3'() %?,8'() *43,+6-,5 .$/46$'() 23, 48-'(+,$*5 .'(('() 23, 48-'(+,$*5 %(+ 4622'() %(+ +'*2$'962'() 23, ?,8*#

2# C//$+'(%2, $,4,'.2 %(+ '(*2%--%2'/(/1 23, O&(,$.$/0'+,+ -/4? 48-'(+,$* */ 23%2 4/(*2$642'/(%42'0'2',* $,7%'(/(*43,+6-,#

E# E-,42$'4%- S8*2,7 R/6)3'() I(:C//$+'(%2, -%8/62%(+'(*2%--%2'/(/1 ,-,42$'1',++//$ 3%$+&%$, &'23 4/((,42'/(* 2/ ./&,$*6..-',* %(+96'-+'() *%1,28%(+*,46$'28 *8*2,7*#

F# E<'*2'() O.,('()*: W3,$, 3%$+&%$, 4/7./(,(2* %$, *43,+6-,+ 1/$ %..-'4%2'/(2/ ,<'*2'() 4/(*2$642'/(/$ &3,$, 7/+'1'4%2'/(* 2/ ,<'*2'() +//$ 3%$+&%$, %$, $,A6'$,+51',-+ 0,$'18 ,<'*2'() 4/(+'2'/(* %(+4//$+'(%2, '(*2%--%2'/(/1 +//$ 3%$+&%$, 2/ *6'2 /.,('() 4/(+'2'/(* %(+2/ .$/0'+, .$/.,$ +//$ /.,$%2'/(#

1#I WARRANTY

A# S . , 4'%- W%$$%(28: M%(61%4426$, $'* *2%(+%$+ 1/$7 '(&3'43 7 %(61%4426$, $ %)$, , * 2/ $, . %'$ /$ $, .-%4 , 4/ 7 . /(, (2* /1 +/ /$ 3%$+&%$, 23%2 1%'- '(7 %2 , $'%-* /$ &/$? 7 %(*3'. &'23'(* . , 4'1' , + &%$$%(28 . , $'/+#

1# F%'-6$, * '(4-6+ , 5 962 %$, (/2 -' 7 '2 , + 2/5 23 , 1/--/&'( ):

%# S2$6426$%- 1%'-6$, * '(4-6+'( ) , <4 , **'0 , + , 1- , 42'/ (5 4$%4?'( )5 /$ 9$, %?%) , #
9# F%6-28 / . , $%2'/ (/1 +/ /$* %(+ +/ /$ 3%$+&%$, #

1# N%7,+M%(61%426$,$*(P$/+642*: M%(61%426$,$%(+ .$/+642+,*')(%2'/(%$,-'*2,+1/$,%43 +//$ 3%$+&%$, 28., $,A6'$,+1/$ 23, .6$./*, /1 ,*2%9-'*3'() 7'('767 $,A6'$,7,(2*# M%(61%426$,$*((%7,*%$, %99$,0'%2,+'(P%$2 :;D//$H%$+&%$, S43,+6-,;A$2'4-,#

2#2 HIN ! ES

-%9,-,+5-,%+-'(,+%($,)6-%$+//$*# P$/0'+,'(+,.,(+,(2%(+%+86*2%9-,0%-0,*1/$4-/*'()*.,,+5 -%243*.,,+5%(+9%4?43,4?&'23 96'-2'(+,%+*2/.%(+3/-+/.,(1,%26$,**%**.,4'1',+# P$/0'+,+ 1'('*3 4/0,$.-%2,* /$23$,*3/-+* %*'(+'4%2,+'(+//$ H%$+&%$,S,2*#

1# M%(61%4126$,$*: S69B,42 2/ 4/7.-'%(4, &'23 $,A6'$,7,(2*5 .$/0'+, .$/+642* 98 23, 1/--/&'():

%# R'</(D//$C/(2$/-*#

B# P'0/2*: BHMA A1>6#=5 !$%+,1544,$2'1',+.'0/2* .$/0'+,+,'23,$4,(2,$36()/$:/='(43/11*,228.,4/7.-,2, &'23 2/.5 9/22/75%(+'(2,$7,+'%2, .'0/2* H/11*,2 .'0/2* /(-8D '(A6%(2'28 %44/$+'()2/7%(61%4126$,$C* $,4/77,(+%2'/(*# S.%4,'(2,$7,+'%2, .'0/2* ,A6%-8(/2-,**23%(2>'(43,*/(4,(2,$%.%$2/$(/27/$,23%(:>'(43,*/(4,(2,$1/$+//$* /0,$121'(43,*3')3# P'0/23'(),*2/3%0,/'-'7.$,)(%2,+9$/(@,9,%$'()'(23,2/.'0/2%(+%$%+'%-$/--,$%(+23$6*29,%$'()'(23,9/22/7 .'0/2&'23 23,9/22/7 .'0/2+,*')(,+2/4%$$823,16--&,')32/123,+//$# P'0/2* 2/9,U"-'*2,+1/$&'(+*2/$7 &3,$,%..-'4%9-,#

1# M%(61%4126$,$*: S69B,42 2/ 4/7.-'%(4, &'23 $,A6'$,7,(2*5 .$/0'+, .$/+642* 98 23, 1/--/&'():

%# R'</(D//$C/(2$/-*#

2#= CONTINUOUS HIN ! ES

2#> POWER TRANSFER DEVICES

A# E-,42$'1',+ G6'4? C/((,42 T$%(*1,$ H'(),*: P$/0'+, ,-,42$'1',+ 2$%(*1,$ 3'(),* &'23 M/-,<

&'$'() 3%$(,**,*1/$4/((,42'/(2/ ,-,42$'4-/4?'() +,0'4,*%(+ ./&,$*6..-',*# P$/0'+, *611'4',(2
(679,$ /1 4/(4,%-,+ &'$,*2/ %44/77/+%2, ,-,42$'4 16(42'/(/1 *.,4'1',+ 3%$+&%$,# P$/0'+, %
4/((,42/$1/$23$/6)3 +//$,-,42$/('4-/4?'() +,0'4,*%(+ 1$/7 3'(), 2/ 86(42'/(9/<%9/0, 23,
/.,('()# W'$, (62 4/((,42'/(* %$, (/2 %44,.2%9-,# D,2,$7'(, 23, -,()23 $,A6'$,+ 1/$,%43
,-,42$'1',+ 3%$+&%$, 4/7./(,(2 1/$ 23, +//$ 28.,5 *'@, %(+ 4/(*2$642'/(5 7'('767 /1 2&/ .,$

'(43 9%4?*,25 1/2 '(43 23$/& -%2439/-2 H:/= '(43 %2 $%2,+ .%'$,+ /.,('()*D5 %(+ 6('0,$*%- (/(3%(+,+#

1# M%(61%426$,$*: S69B,42 2/ 4/7.-'%(4, &'23 $,A6'$,7,(2*5 .$/0'+, .$/+642* 98 /(, /1 23, 1/--/&'():

%# S%$),(2 M%(61%426$'() 11 "'(,

D# "/4? T$'7 D,*')(: "N"5 "NJ#

E# E(6$-'(): W3,$, *.,4'1',+ .$/0'+, ?(6$-'() /$ %9$%*'0, 4/%2'() 2/ %-- -,0,$* /(+//$* -,%+'() 2/ 3%@%$+/6* %$,%* *643 %* 7,43%('4%- $//7*5 9/'-,$ %(+ 16$(%4, $//7*5 8%('2/$ 4-/*,2*5 %(+ %* /23,$&'*, $,A6'$,+ 98 23, I--'(/'* A44,**'9'-'28 C/+,#

2#7 "OCE AND "ATCH STRIEES

A# S2$'?,*: P$/0'+, 7%(61%426$,$C* *2%(+%$+ *2$'?, 1/$,%43 -/4? 9/-2 /$ -%2439/-2 4/7.-8'() &'23 $,A6'$,7,(2* '(+'4%2,+ 1/$%..-'4%9-, -/4? /$ -%243 %(+ &'23 *2$'?, 9/< %(+ 46$0,+-'. ,<2,(+,+ 2/ .$/2,42 1$%7,J 1'('*3,+ 2/ 7%243 -/4? /$ -%243#

1# F-%2 "'. S2$'?,*: F/$ -/4?* &'23 23$,, .',4, %(2'1$'42'/(-%2439/-2*5 %* $,4/7 7,(+,+ 98 7%(61%426$,$#
2# E<2$% "/() "'. S2$'?,*: F/$ -/4?* 6*,+ /(1$%7,* &'23 %..-',+ &//+ 4%*'() 2$'7#
:# A-67'(67 F$%7, S2$'?, B/<: M%(61%426$,$C* *.,4'%- *2$'?, 9/< 1%9$'4%2,+ 1/$ %-67'(67 1$%7'()#

B# S2%(+%$+*: C/7.-8 &'23 23, 1/--/&'():

1# S2$'?,* 1/$ M/$2'*, "/4?* %(+ "%243,*: BHMA A1>6#1:#
2# S2$'?,* 1/$ B/$,+ "/4?* %(+ "%243,*: BHMA A1>6#2#
:# S2$'?,* 1/$ A6<'-'%$8 D,%+-/4?*: BHMA A1>6#>#
=# D6*2.$//1 S2$'?,*: BHMA A1>6#16#

C# P6*3 P6-- "%243,*: M/$2'*,5 BHMA A1>6#1:J S,$',* 10005 O.,$%2'/(%- %(+ S,46$'28 !$%+, 1 7/$2'*, 28., .6*3 .6-- -/4?* %(+ -%243,* %(+ -')%26$, $,*'*2%(2 .%++-, 2$'7 4%.%9-, /1 9,'() 7/6(2,+ '(0,$2'4%- H6. /$ +/&(D %(+ 3/$'@/(2%- H*'+,&%8*D ./*'2'/(*# "/4?*,2* 2/ 9, 7%(61%426$,+ &'23 % 4/$$/*'/($,*'*2%(25 1/$7,+ *2,,- 4%*, %(+ 9, (/(3%(+,+5 1',-+ $,0,$*'9-, 1/$ $, 3%(+'() &'23/62 +'*%**,79-8 /1 23, -/4? 9/+8# P%++-,* %(+ 4/0,$* %$, 7%(61%426$,+ 1/$7 4%*2 *2%'(-,** *2,,- /$ 9$%** 7%2,$'%-# P$/0'+, /.2'/(%--,%+ -'('() H-/4? 9/+8D %(+ T/$< 1%*2,(,$* %* *.,4'1',+ '(H%$+&%$, S,2*#

1# M%(61%426$,$*: S69B,42 2/ 4/7.-'%(4, &'23 $,A6'$,7,(2*5 .$/0'+, .$/+642* 98 /(, /1 23, 1/--/&'():

%# S%$),(2 M%(61%426$'() 8200 A"P S,$',*#

2#8 AUKI"IARY "OCES

A# M/$2'*, A6<'-'%$8 "/4?*: BHMA A1>6#>J !$%+, 15 4,$2'1',+ *7%-- 4%*, 7/$2'*, 28., +,%+-/4?* 4/(*2$642,+ /1 3,%08)%6), &$/6)32 4/$$/*'/($,*'*2%(2*2,,-# S2,,- /$ *2%'(-,** *2,,- 9/-2* &'23 % 1 '(43 23$/& %(+ 3%$+,(,+ *2,,- $/--,$.'(*# D,%+-/4?* 2/ 9, .$/+642* /1 2(+

1# M%(61%426$,$*: S69B,42 2/ 4/7 .-'%(4, &'23 $,A6'$,7,(2*5 .$/0'+, .$/+642* 98 /(, /1 23, 1/--/&'():

%# S%$),(2 M%(61%426$'() =870 S,$',*#

2#I E"ECTRIC STRIEES

A# E-,42$'4 S2$'?,*: BHMA A1>6#:1J !$%+, 15 U" -'*2,+1/$ 9/23 B6$)-%$8 R,*'*2%(4, %(+1/$ 6*, /(1'$, $%2,+ +//$ %**,79-',*# S2%'(-,** *2,,- 4/(*2$642'/(&'23 +6%- '(2,$-/4?'() .-6(),$ +,*')(2,*2,+2/ ,<4,,+ :000 -9*# /1 *2%2'4 *2$,()23 %(+ :>0 12 -9*# /1 +8(%7'4 *2$,()23# S2$'?,* 2,*2,+1/$ % 7'('767 1 7'--'/(/.,$%2'() 484-,*# P$/0'+, *2$'?,* &'23 12 /$ 2= VDC 4%.%9'-'28 %(*6..-',+ *2%(+%$+ %* 1%'- *,46$, 6(-,** /23,$&'*, *.,4'1',+# O.2'/(%0%'-%9-, 1/$ -%2439/-2 %(+ -%2439/-2 *2$'?, 7/('2/$'() '(+'4%2'() 9/23 23, ./*'2'/(/1 23, -%2439/-2 %(+ -/4?,+4/(+'2'/(/1 23, *2$'?,#

1# M%(61%426$,$*: S69B,42 2/ 4/7 .-'%(4, &'23 $,A6'$,7,(2*5 .$/0'+, .$/+642* 98 /(, /1 23, 1/--/&'():

%# F/-),$ A+%7 EDC 700 S,$',*#
9# HES 1006 S,$',*#

B# S6$1%4, M/6(2,+R'7 E-,42$'4 S2$'?,*: S6$1%4, 7/6(2,+$'7 ,<'2+,0'4, ,-,42$'4 *2$'?,*4/(1/$7'() 2/ ANSI/BHMA A1>6#:15 !$%+, 15 %(+U" "'*2,+1/$ 9/23 B6$)-%$8 R,*'*2%(4, %(+1/$ 6*, /(1'$, $%2,+ +//$ %**,79-',*# C/(*2$642'/('(4-6+,* '(2,$(%--8 7/6(2,+ */-,(/'+ &'23 2&/ 3,%08 +6285 *2%'(-,** *2,,--/4?'() 7,43%('*7* /.,$%2'() '(+,.,(+,(2-8 2/ .$/0'+, 2%7 .,$$,*'*2%(4,# S2$'?,* 2,*2,+1/$ % 7'('767 /1 >005000 /.,$%2'() 484-,*# P$/0'+, *2$'?,* &'23 12 /$ 2= VDC 4%.%9'-'28 *6..-',+ *2%(+%$+ %* 1%'- *,46$, 6(-,** /23,$&'*, *.,4'1',+# O.2'/(%0%'-%9-, 1/$ -%2439/-2 %(+ -%2439/-2 *2$'?, 7/('2/$'() '(+'4%2'() 9/23 23, ./*'2'/(/1 23, -%2439/-2 %(+ -/4?,+4/(+'2'/(/1 23, *2$'?,# S2$'?, $,A6'$,* (/ 4622'() 2/ 23, B%79 .$'/$2/ '(*2%--%2'/(#

1# M%(61%426$,$*: S69B,42 2/ 4/7 .-'%(4, &'23 $,A6'$,7,(2*5 .$/0'+, .$/+642* 98 /(, /1 23, 1/--/&'():

%# F/-),$ A+%7#
9# HES I>00/I600 S,$',*#

C# P$/0'+, ,-,42$'4 *2$'?,* &'23 '(-'(, ./&,$ 4/(2$/--,$ %(+ *6$), *6..$,**/$ 98 23, *%7, 7%(61%426$,$ %* 23, *2$'?, &'23 4/79'(,+ .$/+642* 3%0'() 6(-'7'2,+-'1,2'7, &%$$%(28#

2#10 E"ECTROMA!NETIC "OCES

A# S6$1%4, E-,42$/7%)(,2'4 "/4?* HH,%08 D628D: BHMA A1>6#2:J !$%+, 1 &'23 7'('767 3/-+'() 1/$4, *2$,()23 /1 15200 ./6(+*# "/4?* 2/ 9, 4%.%9-, /1 ,'23,$12 /$ 2= 0/-2%), %(+9, U" -'*2,+1/$ 6*, /(1'$, $%2,+ +//$ %**,79-',*# E-,42$/('4* %$, 2/ 9, 16--8 *,%-,+ %)%'(*2 2%7.,$'() %(+ %--/& ,<2,$'/$ &,%23,$.$//1 %..-'4%2'/(*# A* '(+'42,+ '(H%$+&%$, S,2*5 .$/0'+, *.,4'1',+ 7/6(2'() 9$%4?,2* %(+3/6*'()# P/&,$ *6..-8 2/ 9, 23, *%7, 7%(61%426$,$ %* 23, -/4? &'23 4/79'(,+ .$/+642* 3%0'() %-'1,2'7, $,.-%4,7,(2 &%$$%(28#

1# M%(61%426$,$*: S69B,42 2/ 4/7 .-'%(4, &'23 $,A6'$,7,(2*5 .$/0'+, .$/+642* 98 /(, /1 23, 1/--/&'():

%# S,46$'28 D//$ C/(2$/-* EM"/4? 1>00 S,$',*#
9# S,46$'2$/(D//$ C/(2$/-* M62 S,$',*#

9# R/4?&//+ M%(61%4226$'()#

2#1= EKIT DEVICES AND AUKI"IARY ITEMS

A# !,(,$%- R,A6'$,7,(2*: A-- ,<'2 +,0'4,* *.,4'1',+ 3,$,'(*3%-- 7,,2 /$,<4,,+ 23, 1/--/&'() 4$'2,$'%:

1# A2 +//$* (/2 $,A6'$'() % 1'$, $%2'()5 .$/0'+, +,0'4,* 4/7 .-8'() &'23 NFPA 101 %(+ -'*2,+ %(+ -%9,-,+ 1/$;P%('4 H%$+&%$,; %44/$+'() 2/ U":0># P$/0'+, .$/.,$ 1%*2,(,$* %* $,A6'$,+ 98 7%(61%4226$,$ '(4-6+'() *,< (62* %(+ 9/-2* %2 /.,('()* *.,4'1',+ '(23, H%$+&%$, S,2*#

NORTHWESTERN UNIVERSITY
PROJECT NAME _____ FOR: _____
JOB # _____ ISSUED: 11/06/2017

DOOR HARDWARE

%..-'4%9-,# P$/0'+, 23, %..$/.$'%2, 36$$'4%(, /$ 2/$(%+/ $,*'*2%(2 .$/+642* 23%2 3%0, 9,,(
'(+,.,(+,(2 23'$+ .%$28 2,*2,+5 4,$2'1',+5 %(+ -%9,-,+ 2/ 7,,2 *2%2, %(+ -/4%- &'(+*2/$7 96'-+'()
4/+,* %..-'4%9-, 2/ .$/8,42#

:# O11*,2 .6--D,*')(:M'('7 1 '(43$/6(++'%7,2,$ *2%'(-,** *2,,-9%$ /$269, *2/4? .6--* &'232 1/2 '(43 .$/B,42'/(%(+ /11*,2 /1 I0 +,)$,,* 6(-,** /23,$&'*, '(+'4%2,+#

=# P6*3 B%$*: M'('7 1 '(43$/6(++'%7,2,$ 3/$'@/(2%- .6*3 9%$* &'23 7'('767 4-,%$%(4, /1 2 1/2 '(43 .$/B,42'/(1$/7 1%4, /1+//$ 6(-,** /23,$&'*, '(+'4%2,+#

># F%*2,(,$*: P$/0'+, 7%43'(, *4$,&* 1/$ %-- 7,2%-+//$* H+$'-- %(+2%. (/2*,-1 2%..'()D %(+ .$/0'+, 7%(61%4226$, *2%(+%$+ 1/$ %-- &//++//$*#

6# M%(61%4226$,$*: S69B,42 2/ 4/7 .-'%(4, &'23 $,A6'$,7,(2*5 .$/0'+, .$/+642* 98 /(, /1 23, 1/--/&'():

%# R/4?&//+ M%(61%4226$'()#

9# M4E'((,8 P$/+642*#

NORTHWESTERN UNIVERSITY

NORTHWESTERN UNIVERSITY
PROJECT NAME _____ FOR: _____
JOB # _____ ISSUED: 11/06/2017

9# P,7?/ M%(61%426$'() HPED#
4# N,$/ I(2,$(%2'/(%- HNED#

2#2> E"ECTRONIC ACCESSORIES

A# E,8 S&'243,*: E,8 *&'243,* 16$('*3,+ *2%(+%$+ &'23 *2%'(-,** *2,,- *'()-,)%() 1%4, .-%2, &'23 % 12/2=VDC 9' 4/-/$ "ED '(+'4%2/$# I(2,)$%- 9%4?'() 9$%4?,2 .,$7'2* '(2,)$%2'/(&'23 %(8 1 1/=; /$ 1 1/2; 7/$2'*, 28., 48-'(+,$# E,8 *&'243,* %0%'-%9-, %* 7/7,(2%$8 /$ 7%'(2%'(,+ %42'/(%(+ '((%$$/& 1%4, .-%2, /.2'/(*#

1# M%(61%426$,$*: S69B,42 2/ 4/7.-'%(4, &'23 $,A6'$,7,(2*5 .$/0'+, .$/+642* 98 /(, /1 23, 1/--/&'():

%# S,46$'28 D//$ C/(2$/-* HSDD 800 S,$',*#
9# S,46$'2$/(D//$ C/(2$/-* HSUD ME S,$',*#

B# P6*3 B622/(S&'243,*: I(+6*2$'%-)$%+, 7/7,(2%$8 /$ %-2,$(%2, 4/(2%425 9%4?-')32,+ .6*3 9622/(* &'23 *2%'(-,** *2,,- *&'243,(4-/*6$,*# 12/2= VDC 9' 4/-/$ '--67'(%2'/(*6'2%9-, 1/$,'23,$ 1-6*3 /$ *6$1%4, 7/6(2'()#

1# M%(61%426$,$*: S69B,42 2/ 4/7.-'%(4, &'23 $,A6'$,7,(2*5 .$/0'+, .$/+642* 98 /(, /1 23, 1/--/&'():

%# S,46$'28 D//$ C/(2$/-* HSDD =00 S,$',*#
9# S,46$'2$/(D//$ C/(2$/-* HSUD PB S,$',*#

C# R,A6,*2 2/ E<'2 M/2'/(S,(*/$: R,A6,*2 2/ E<'2 S,(*/$* 7/2'/(+,2,42/$* *.,4'1'4%--8+,*')(,+

'(4-6+'() -/4?/6(-/4?5 +//$ ./*'2'/(5 %(+ $,A6,*2 2/ ,<'2 *2%26*# 12 /$ 2=VDC 0/-2%), %+B6*2%9-, /.,$%2'() %* F%'- S%1, /$ F%'- S,46$,#

1# M%(61%4226$,$*: S69B,42 2/ 4/7.-'%(4, &'23 $,A6'$,7,(2*5 .$/0'+, .$/+642* 98 /(, /1 23, 1/--/&'():

%# S%$),(2 M%(61%4226$'() HSAD WT1 W',)%(+ T,*2 U('2#

F# P/&,$ S6..-',*: P$/0'+, N%2'/(%--8 R,4/)('@,+ T,*2'() "%9/$%2/$8 "'*2,+ 12VDC /$ 2=VDC H1',-+ *,-,42%9-,D 1'-2,$,+ %(+ $,)6-%2,+ ./&,$ *6..-',*# I(4-6+, 9%22,$8 9%4?6./.2'/(&'23 '(2,)$%-9%22,$8 43%$)'() 4%.%9'-'28 '(%++'2'/(2/ /.,$%2'() 23, DC -/%+ '(,0,(2 /1 -'(,0/-2%), 1%'-6$,# P$/0'+, 23, -,%*2 (679,$ /1 6('2*5 %2 23, %..$/.$'%2, %7.,$%), -,0,-5 *611'4',(2 2/ ,<4,,+ 23, $,A6'$,+ 2/2%- +$%& 1/$ 23, *.,4'1',+ ,-,42$'1',+ 3%$+&%$, %(+ %44,** 4/(2$/- ,A6'.7,(2#

1# M%(61%4226$,$*: S69B,42 2/ 4/7.-'%(4, &'23 $,A6'$,7,(2*5 .$/0'+, .$/+642* 98 /(, /1 23, 1/--/&'():

%# S,46$'28 D//$ C/(2$/-* HSDD 6:0 S,$',*#
9# S,46$'2$/(D//$ C/(2$/-* HSUD BPS 12/2= S,$',*#

2#26 S"IDIN ! DOOR HARDWARE

A# S-'+'() D//$ H%$+&%$,: BHMA A1>6#1=J 4/(*'*2'() /1 4/7.-,2, *,2* '(4-6+'() $%'-*5 3%(),$*5 *6../$2*5 967.,$*5 1-//$)6'+,*5 %(+ %44,**/$',*'(+'4%2,+#

1# M%(61%4226$,$*: S69B,42 2/ 4/7.-'%(4, &'23 $,A6'$,7,(2*5 .$/0'+, .$/+642* 98 /(, /1 23, 1/--/&'():

%# H%1,-, M%(61%4226$'()#
9# P,7?/ M%(61%4226$'()#

2# S-'+'() B' P%**'() P/4?,2 D//$ H%$+&%$,: P$/0'+, 4/7.-,2, *,2* 4/(*'*2'() /1 2$%4?5 3%(),$*5 *2/.*5 967.,$*5 1-//$ 43%((,-5)6'+,*5 %(+ %44,**/$',*'(+'4%2,+#
:# P/4?,2 S-'+'() D//$ H%$+&%$,: R%2,+ 1/$ +//$* &,')3'() 6.2/ 200 -9#

2#27 FO"DIN ! DOOR HARDWARE

A# !,(,$%-: BHMA A1>6#1=J 4/7.-,2, *,2* '(4-6+'() /0,$3,%+ $%'-*5 3%(),$*5 *6../$2*5 967.,$*5 1-//$)6'+,*5 %(+ %44,**/$',*'(+'4%2,+#

1# M%(61%4226$,$*: S69B,42 2/ 4/7.-'%(4, &'23 $,A6'$,7,(2*5 .$/0'+, .$/+642* 98 /(, /1 23, 1/--/&'():

%# H%1,-, M%(61%4226$'()#
9# P,7?/ M%(61%4226$'()#

2# B' 1/-+'() +//$ H%$+&%$,: R%2,+ 1/$ +//$.%(,-* &,')3'() 6.2/ 12> -9#

2#28 DOOR PROTECTIVE TRIM UNITS

A# !,(,$%-: D//$.$/2,42'0, 2$'7 6('2* 2/ 9, /128.,%(+,*')(%* *.,4'1',+9,-/& /$'(23, H%$+&%$, S,2*#

B# S'@,: F%9$'4%2, .$/2,42'/(.-%2,* H?'4?5 %$7/$5 /$ 7/.D (/2 7/$, 23%(2; -,** 23%(+//$ &'+23 H"DWD /(*2/.*'+, %(+(/2 7/$, 23%(1; -,** 23%(+//$ &'+23 /(.6--*'+,#C//$+'(%2, %(+.$/0'+, .$/.,$ &'+23 %(+3,')32 %* $,A6'$,+ &3,$, 4/(1-'42'() 3%$+&%$, +'42%2,*# H,')32 2/ 9, %* *.,4'1',+ '(23, H%$+&%$, S,2*#

C# M,2%- P$/2,42'/(P-%2,*: ANSI/BHMA A1>6#6 4,$2'1',+ 7,2%- .$/2,42'/(.-%2,* H?'4?5 %$7/$5 /$ 7/.D5 9,0,-,+ /(1/6$,+),* HB=ED5 1%9$'4%2,+ 1$/7 23, 1/--/&'()#

1# S2%'(-,** S2,,-: 0>0 '(43 23'4?5 &'23 4/6(2,$*6(? *4$,& 3/-,* HCSED#
2# B$%** /$ B$/(@,: 0>0 '(43 23'4?5 &'23 4/6(2,$*6(? *4$,& 3/-,* HCSED#
:# "%7'(%2, P-%*2'4 /$ A4$8-'4: 1/8 '(43 23'4?5 &'23 4/6(2,$*6(? *4$,& 3/-,* HCSED#

D# F%*2,(,$*: P$/0'+, 7%(61%426$,$C* +,*')(%2,+ 1%*2,(,$ 28., %* *.,4'1',+ '(23, H%$+&%$, S,2*#

E# M,2%- D//$ E+)'(): D//$.$/2,42'/(,+)'() 1%9$'4%2,+ 1$/7 % 7'('767 #0>0 '(43 23'4? 7,2%-*3,,25 1/$7,+ '(2/ %(%()-, /$;U; 4%. *3%.,*5 *6$1%4, /$ 7/$2'*,+ 7/6(2,+ /(2/ ,+), /1 +//$# P$/0'+, %..$/.$'%2, -,) /0,$-%. 2/ %44/6(2 1/$.$/2,42'/(.-%2,* %* $,A6'$,+# H,')32 2/ 9, %* *.,4'1',+ '(23, H%$+&%$, S,2*#

F# <u>M%(61%426$,$*:</u> S69B,42 2/ 4/7.-'%(4, &'23 $,A6'$,7,(2*5 .$/0'+, .$/+642* 98 /(, /1 23, 1/--/&'():

1# M4E'((,8 A$43'2,426$%- H%$+&%$, HMED#
2# R/4?&//+ M%(61%426$'() HROD#

2#2I FABRICATION

A# M%(61%426$,$C* N%7,.-%2,: D/ (/2 .$/0'+, .$/+642* 23%2 3%0, 7%(61%426$,$C* (%7, /$ 2$%+, (%7, +'*.-%8,+ '(%0'*'9-, -/4%2'/(,<4,.2 '(4/(B6(42'/(&'23 $,A6'$,+ 1'$, $%2,+ -%9,-* %(+%* /23,$&'*, %..$/0,+ 98 A$43'2,42#

1# M%(61%426$,$C* '+,(2'1'4%2'/('* .,$7'22,+ /($'7 /1-/4? 48-'(+,$* /(-8#

B# B%*, M,2%-*: P$/+64, +//$ 3%$+&%$, 6('2* /1 9%*, 7,2%-'(+'4%2,+5 1%9$'4%2,+ 98 1/$7'() 7,23/+'(+'4%2,+5 6*'() 7%(61%426$,$C* *2%(+%$+ 7,2%-%--/85 4/7./*'2'/(52, 7.,$5 %(+ 3%$+(,**# F6$('*3 7,2%-* /1 % A6%-'28 ,A6%- 2/ /$)$,%2,$ 23%(23%2 /1 *.,4'1',+ +//$ 3%$+&%$, 6('2* %(+ BHMA A1>6#18#

C# F%*2,(,$*: P$/0'+, +//$ 3%$+&%$, 7%(61%426$,+ 2/ 4/7.-8 &'23 .69-'*3,+ 2,7.-%2,* .$,.%$,+ 1/$ 7%43'(,5 &//+5 %(+ *3,,2 7,2%- *4$,&*# P$/0'+, *4$,&* 23%2 4/7.-8 &'23 4/7 7,$4'%--8 $,4/)('@,+ '(+6*2$8 *2%(+%$+* 1/$ %..-'4%2'/('(2,(+,+5 ,<4,.2 %-67'(67 1%*2,(,$* %$, (/2 .,$7'22,+# P$/0'+, P3'--'.* 1-%2 3,%+ *4$,&* &'23 1'('*3,+ 3,%+* 2/ 7%243 *6$1%4, /1 +//$ 3%$+&%$,5 6(-,** /23,$&'*, '(+'4%2,+#

1# C/(4,%-,+ F%*2,(,$*: F/$ +//$ 3%$+&%$, 6('2* 23%2 %$, ,<./*,+ &3,(+//$ '* 4-/*,+5 ,<4,.2 1/$ 6('2* %-$,%+8 *.,4'1',+ &'23 4/(4,%-,+ 1%*2,(,$*# D/ (/2 6*, 23$/6)3 9/-2* 1/$ '(*2%--%2'/(&3,$, 9/-2 3,%+ /$ (62 /(/../*'2, 1%4, '* ,<./*,+ 6(-,** '2'* 23, /(-8 7,%(*/1*,46$,-8 %22%43'() 23, +//$ 3%$+&%$,# W3,$, 23$/

1D H'( ) , * 7 /$2'*, + 2/ +/ /$* /$ 1$%7 , *J 6* , 23$, %+, + 2/ 23 , 3 , %+ &/ /+ *4$, &* 1/$ &/ /+ +/ /$* %(+ 1$%7 , *#
2D S2$'?, .-%2, * 2/ 1$%7 , *#
:D C-/*, $* 2/ +/ /$* %(+ 1$%7 , *#

9# S2, , - T3$/6)3 B/-2*: F/$ 23 , 1/--/&'( ) 6(-, ** +/ /$ 9-/4?'( ) '* .$/0'+, +:

1D S6$1%4 , 3'( ) , * 2/ +/ /$*#
2D C-/*, $* 2/ +/ /$* %(+ 1$%7 , *#
:D S6$1%4 , 7 /6(2, + , <'2 +, 0'4, *#

:# S.%4, $* /$ S, < B/-2*: F/$ 23$/6)3 9/-2'( ) /1 3/--/& 7 , 2%- +/ /$*#
=# F%*2, (, $* 1/$ W/ /+ D/ /$*: C/ 7 .-8 &'23 $, A6'$, 7 , (2* '(DHI WDHS#25 ;R, 4/ 7 7 , (+, + F%*2, (, $* 1/$ W/ /+ D/ /$*#;
># ! %*?, 2'( ) F%*2, (, $*: P$/0'+, (/ (4/$$/*'0, 1%*2, (, $* 1/$, <2, $'/$ %. .-'4%2'/ (* %(+ , -*, &3, $, %* '(+'4%2, +#

2#:0 FINISHES

A# P$/0'+, 1'('*3, * 4/ 7 .-8'( ) &'23 BHMA A1>6#18 %* '(+'4%2, + '(+/ /$ 3%$+&%$, *43, +6-, #

B# P$/2, 42 7 , 43%('4%- 1'('*3, * / (, <. /*, + *6$1%4, * 1$/ 7 +%7%), 98 %. .-8'( ) % *2$'. .%9-, 5 2, 7 . /$%$8 .$/2, 42'0, 4/0, $'( ) 9, 1/$, *3'. .'( )#

C# A. . , %$%(4, /1 F'('*3, + W/$?: V%$'%2'/ (* '(%. . , %$%(4, /1 %9622'( ) /$ %+B%4, (2 .', 4, * %$, %44, .2%9-, '1 23, 8 %$, &'23'(/ (, 3%-1 /1 23, $%( ), /1 %. .$/0, + S%7 .-, *# N/2'4, %9-, 0%$'%2'/ (* '(23, *%7 , .', 4, %$, (/2 %44, .2%9-, # V%$'%2'/ (* '(%. . , %$%(4, /1 /23, $ 4/ 7 . / (, (2* %$, %44, .2%9-, '1 23, 8 %$, &'23'(23, $%( ), /1 %. .$/0, + S%7 .-, * %(+ %$, %**, 7 9-, + /$ '(*2%--, + 2/ 7 '('7 '@, 4/ (2$%*2#

PART 3 - EKECUTION

:#1 EKAMINATION

A# E<%7 '(, +/ /$* %(+ 1$%7 , *5 &'23 I(*2%--, $.$, *, (25 1/$ 4/ 7 .-'%(4, &'23 $, A6'$, 7 , (2* 1/$ '(*2%--%2'/ (2/-, $%(4, *5 -%9, -, + 1'$, $%2, + +/ /$ %**, 7 9-8 4/ (*2$642'/ (5 &%-- %(+ 1-/ /$ 4/ (*2$642'/ (5 %(+ /23, $ 4/ (+'2'/ (* %11, 42'( ) . , $1/$ 7 %(4, #

B# E<%7 '(, $/6)3'( ) '(1/$, -, 42$'4%- . /&, $ *8*2, 7 * 2/ 0, $'18 %426%- -/4%2'/ (* /1 &'$'( ) 4/ ((, 42'/ (* 9, 1/$, , -, 42$'1', + +/ /$ 3%$+&%$, '(*2%--%2'/ (#

C# P$/4, , + &'23 '(*2%--%2'/ (/ (-8 %12, $ 6(*%2'*1%42/$8 4/ (+'2'/ (* 3%0, 9, , (4/$$, 42, +#

:#2 PREPARATION

A# S2, , - D/ /$* %(+ F$%7 , *: F/$ *6$1%4, %. .-', + +/ /$ 3%$+&%$, 5 +$'-- %(+ 2%. +/ /$* %(+ 1$%7 , * %44/$+'( ) 2/ ANSI/SDI A2>0#6#

B# W/ /+ D/ /$*: C/ 7 .-8 &'23 DHI WDHS#> ;R, 4/ 7 7 , (+, + H%$+&%$, R, '(1/$4, 7 , (2 "/4%2'/ (* 1/$ M'(, $%- C/$, W/ /+ F-6*3 D/ /$*#;

NORTHWESTERN UNIVERSITY
PROJECT NAME _____ FOR: _____
JOB # _____