

MAHATMA GANDHI UNIVERSITY

No.EH.IV/128/2011

P.D.Hills

Dated: 03-11-2011

NOTIFICATION

It is hereby notified that the result of III Semester MCA -- (STAS) degree examination June 2011 is published on 03-11-2011.

Applications for scrutiny of answer scripts in the prescribed form along with the required fee of Rs.100/- (Hundred only) per paper should be forwarded so as to reach the office of the Controller of Examinations on or before 03-12-2011.

Applications for scrutiny of answer scripts can be had from the University Examination Store on payment of Rs.25/-

Photocopies of the mark list or Hall Ticket should be submitted along with the application.

Sd/-

CONTROLLER OF EXAMINATIONS

To

1. The Principals of the colleges concerned
2. PRO (for arranging a press release)
3. Enquiry
4. EJ IX section/EJ VIII
5. Exam Tappal/Pool Officer
6. Cash Counter
7. Statistical Unit
8. File copy



! "#\$%" &' " ()#\*&+ (\*, -./\*\$0&1 2\$\$" 0" %

! "#\$%&" ()

\* + (,) (#-%.#, / - 0%"# + (1, 23, 4 (0, &) (, 52), "" ' (1"&. (, "352)' &."23,  
25, . + (, (6&' "3((#7, \* + (#, \$&332., 0(, .)(&. (1, &#, 2)"8"3&%, ' &)9,  
# + ((.#7, : )"8"3&%, ' &)9, # + ((.#, + &; (, 0((3, "## - (1, 0<, . + (,  
= 3"; ()#" .<, #(/&)&. (%<7,

%1 09:33;

00000000000000000000000000000000 (<=  
7)6+. )33/. 0)\*0#-\$-5:6-+:)6;

! "#\$%&' ()\*+% -./'!) "#\$%#&' )+"0.123')( ' 4' &' \$' (56)) ()\*+, -. /01/2/3)45/6+0' /-502.)  
7# ' #87823' ' 9+/2): /242, 7); 2/2.#2)<2, (/%)=, %4' 3+%6)>" ..262#?



! "#\$%" &' " ()#\*&+(\*, -./\*\$0&12\$\$"0"%

! "#\$%&'()\*+,-./"O"#&"-1'2'3'4"5-""678O,98&,(9':\$9""; <==

| /2>??@'?A'\*62>B?@?CD'3B4'3EE@F64'/2F6B26f'643EE3@@Df6! B3HI @31 |

1 23'J'/\*3/

/61 6/\*6! 'E3//

!"#\$%&'!"	!"#\$%&'!"	!"#\$%&'!"	!"#\$%&'!"
!"#\$%&'!"	!"#\$%&'!"	!"#\$%&'!"	!"#\$%&'!"
!"#\$%&'!"	!"#\$%&'!"	!"#\$%&'!"	!"#\$%&'!"
!"#\$%&'!"	!"#\$%&'!"	!"#\$%&'!"	!"#\$%&'!"
!"#\$%&'!"	!"#\$%&'!"	!"#\$%&'!"	!"#\$%&'!"
!"#\$%&'!"	!"#\$%&'!"	!"#\$%&'!"	!"#\$%&'!"
!"#\$%&'!"	!"#\$%&'!"	!"#\$%&'!"	!"#\$%&'!"

| /2>??@'?A'\*62>B?@?CD'3B4'3EE@F64'/2F6B26f'643EE3@@Df6! B3HI @31 |

1 23'J'/\*3/

E3E6! 'E3//

=K; <<;

E8L"-'	E8L"-M	E8L"-N	E8L"-O	E8L"-P
--------	--------	--------	--------	--------

=K; <=<

E8L"-';	E8L"-M	E8L"-N	E8L"-O	E8L"-P
---------	--------	--------	--------	--------

%109:33;  
<=>??@<??

00000000000000000000000000000000 (AB"  
7)6+. )33/. 0)\*0#-\$-5:6-+;)6;

! "\$\$#! \$\$ &' ()\*+,-./0123,4' 5' (+2,6,7,8,9': 2' ,; <=51>=+!?)>,'! \$\$ \$

7?5A1\* 3,) (1>:, +0' ,! "\$\$%#&' , (?+B=2' ,3' C' \*?A' 3,DE,, ()\*+ , -./01/2/3)45/6+0' /-50=+,  
7#' #8fG=2' ' H(0=, I 0=C=>f, 6=0+=5=, J =>301, K>1C' 2(1+E, L? +=E=5M





!"#\$%"&'" ( )#\*+ ( \*, -. /\$0&1 2\$\$" 0" %

!"#\$%&'()\*"+,-.'/"0"#&"-1'2'3'4"5-"6780,98&,(9':\$9"";<==

/2>??@'?A'\*62>B?@?CD'3B4'3EE@F64'/2F6B26/6EI @3! FHI BBI 'H\*1

1 23'J'/\* 3/

/61 6/\*6! 'E3//

!"#!#!%&*)'	!"#!###!)!'	!"#!#(%&(*'	!"#!#&%&)"''
!"#!#*%)\$*'	!"#!#+%&++'	!"#!#"%&&#'	!"#!(\$%&,)'
!"#!(#%)\$!'	!"#!(%&)!\$'	!"#!()%)!&'	!"#!(+%&),'
!"#!&\$%&*&'	!"#!&!%&*#'	!"#!&#%&(##'	!"#!&(%&,#'
!"#!&%&&"\$'	!"#!&)%)!'		

/2>??@'?A'\*62>B?@?CD'3B4'3EE@F64'/2F6B26/6EI @3! FHI BBI 'H\*1

1 23'J'/\* 3/

E3E6! 'E3//

=K; =; N					
E8L"-'=	E8L"-'0	E8L"-'M	E8L"-'0	E8L"-'P	
=K; =Q=					
E8L"-'=	E8L"-'N	E8L"-'0	E8L"-'P		
=K; =Q0					
E8L"-'=	E8L"-';	E8L"-'M	E8L"-'N	E8L"-'0	E8L"-'P
=K; =QK					
E8L"-'M	E8L"-'N	E8L"-'0	E8L"-'P		

%109:33;  
<=>??@<??

00000000000000000000000000000000 (AB"  
7)6+. )33/. 0)\*0#\$-5:6-+ :)6;

!"#\$%&'\$\$ &'()\*+, - ./0123,4' 5' (+2,6,7,8,9': 2'' ; ; <=51>=+1?>,@)' ,%! \$\$\$

7?5A1\* 3,)(1>:, +0' ,! "\$%#&' , (? +B=2' ,3' C'\*?A' 3,DE,,() \*+, -./01/2/3)45/6+0' /-50=+,  
7#' #8FG=2' ' H(0=, I 0=C=>f, 6=0=+5=, J =>301, K>1C' 2(1+E, L?+=E=5M





! "#\$%"&' " ()#\*&+ (\*, -./\*\$0&1 2\$\$"0"%

! "#\$%&'()\*"+,-./"0"#&"-1'2'3'4"5-"6"/\$66%"0"7&8-9':;80,78&,(7'<\$7"'=>??

-----  
/2@AAB'AC'\*: 2@DABAEF'3D4'3GGBH: 4'/2H: D2: I': 4 3GG3BBFI: ! D3JKB31  
1 23'L'/\*3/

/: 1 : /\*: ! 'G3//

MN?>>OPQ=>R

MN?>>QPQNSR

MN?>>NPQNQR

MN?>>TPQ>MR

-----  
| /2@AAB'AC'\*: 2@DABAEF'3D4'3GGBH: 4'/2H: D2: I': 4 3GG3BBFI: ! D3JKB

G3G: ! 'G3//

MN?>>?'

G86"-?'

MN?>>='

G86"-?'

%2\*: ;4<

+>"  
8, 7.1, 44)1\*, -\*#\$06;70.;, 7<

-----  
"#\$%&'()\*+(, -./0#1#\$#. (2(3(4(5#6.##(0%77&#1#8'9.:(<91-89'=-8(>%8#(?@!!

-----  
3=17-&#/(%\$-86(', #(! "#\$%#&' (\$=\*A9.#(/#B#&=7#/ (C: (' ()\*+, -./01)\*2)3)4, 56)7.\*' )06\*9'(8#'#9)E9.##F\$, 9(G, 9B98)(29, 9'19(H98/, -(I 8-B#.\$-': (J='9: 91K



! "#\$%"&' " ()#\*&+ (\*, -./\*\$0&1 2\$\$" 0" %

! "#\$%&'()\*"+,-./"0"#&"-1'2'3'4"5-"""/\$66%"0"7&8-9': ;80,78&, (7'<\$7"'=>??

.....  
'2@AAB'AC'\*: 2@DABAEF'3D4'3GGBH: 4'/2H: D2: /I'2@K\*\*HGG3! 3I'G3\* @3D31 \* @H\*\*:  
1 23'L'/\*3/

/: 1 : /\*: ! 'G3//

MN?>N?PQ=QR      MN?>N=PQ==R      MN?>NOPQO>R      MN?>NQPO=?R      MN?>NUPO=?R  
MN?>NNPQ?UR      MN?>NSPQ?TR      MN?>NTPQ=QR

---

G3G: ! 'G3//

D,%

%2\*: ;4<

+>"  
8, 7.1, 44)1\*, -\*#\$06;70.;, 7<

.....  
" #&'()\* \*((+, -./0#1#\$'#.(2(3(4(5#6.##(0%77&#1#8'9.:(; <91-89'=-8(>%8#(?@!! ?

3=17-&#/(%\$-86(', #(! "#\$%#&' (\$=\*A9.#(/#B#&=7#/C: (' ()\*+, -./01)\*2)3)4, 56)7.\*' )06\*9'(8#'#9)E9.##F\$, 9(G, 9B98)(29, 9'19(H98/, -(I 8-B#.\$-': (J='9: 91K





! "#\$%" &' " ()#\*&+ (\*, -. /\*\$0&1 2\$\$" 0" %

! "#\$%&'()\*+,-./"0#&"-1'2'3'4"5-"""/\$66%"0"7&8-9': ;80,78&, (7'<\$7"'=>??

/2@AAB'AC'\*: 2@DABAEF'3D4'3GGBH: 4'/2H: D2: /!'GKBB3! HJ KDDK'J \* 1  
1 23'L'/\*3/

/: 1 : /\*: ! 'G3//

?N??=MPQO?R      MN??=PQONR      MN??=OPQ>?R      MN??=SPQ=>R

|-----| /2@AAB'AC'\*: 2@DABAEF'3D4'3GGBH: 4'/2H: D2: /!'GKBB3! HJ KDDK'J \* |-----|

G3G: ! 'G3//

MN??=Q'  
G86"- '=

MN??=U'  
G86"- '?

MN??=N'  
G86"- 'U

%2\*: ;44<

+>"  
8, 7.1, 44)1\*, -\*#\$06;70.;, 7<

"#\$%&'()\*+(, -./0#1#\$#. (2(3(4(5#6.##(0%77&#1#8'9.: (: <91-89'=-8(>%8#(?@!!

L

3=17-&#/(%\$-86(', #(! "#\$%#&' (\$=\*A9.#(/#B#&=7#/(C: (' ()\*+, -./01)\*2)3)4, 56)7.\*' )06\*9'(8#'#9)E9.##F\$, 9(G, 9B98)(29, 9'19(H98/, -(I 8-B#.\$-': (J='9: 91K



! "#\$%"&' " ()#\*&+ (\*, -./\*\$0&1 2\$\$" 0" %  
 ! "#\$%&'()\*+,-./"0#&"-1'2'3'4"5-"""/\$66%"0"7&8-9':;80,78&(7'<\$7"'=>??

---

%2\*: ;44<

+>"  
 8, 7.1, 44)1\*, -\*#\$06;70.;, 7<

"#\$%&'()\*+,-./0#1#\$#. (2(3(4(5#6.##(0%77&#1#8'9.:(<91-89'=-8(>%8#(?@!!

M

3=17-&#/(%\$-86(', #(! "#\$%#&' (\$=\*A9.#(/#B#&=7#/ (C: (' )\*+, -./01)\*2)3)4, 56)7.\*' )06\*9'  
 8#' #9)E9.##F\$, 9(G, 9B98)(29, 9'19(H98/, -(I 8-B#.\$-': (J='9: 91K

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No.EH.IV/127/2011

P.D.Hills

Dated: 03-11-2011

**NOTIFICATION**

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8. File copy



! "#\$%" &' " ()#\*&+ (\*, -./\*\$0&1 2\$\$" 0" %

! "#\$%&' " ()

\* + (,) (#-%.#, / - 0% "#+ (1, 23, 4 (0, &)(, 52), "" ' (1"&. (," 352)' &." 23,  
25, . + (, (6&' " 3((#7, \* + (# (,\$&332., 0(, .) (&. (1, &#, 2)" 8" 3&%,' &) 9,  
# + ((. #7, : ) " 8" 3&%,' &) 9, # + ((. #, + &; (, 0((3, "# # - (1, 0 <, . + (,  
= 3"; ()#" .<, #(/&)&.(%<7,

%1 09:33;

00000000000000000000000000000000 (<=" 7)6+. )33/. 0)\*0#\$-5:6-+:)6;

! "#\$%&'()\*+%, -. / ' ! "#\$%&' ) + " 0.123' ) ( ' 4' &' \$' ( 56) ) (\*, -./01/2/3)45/6+0' /-502.) 7# ' #87823' ' 9+ / 2): /242, 7); 2/2.#2)<2, (/%) = , %4' 3+%6)>" ..262#?



! "#\$%" &' " ()#\*&+(\*, -./\*\$0&12\$\$" 0" %

! "#\$%&'()\*"+,-. /"O"#&"-1'2'3'4'5-""6780,98&, (9':\$9""; <==

! 3:>?'@3A4B>'>A/\*>\*C\*6'DE'\*62BADFD@G'?6FFDD!

1 2 3

/61 6/\*6! 'H3//

!"#\$"!%&' &(	!"#\$")%&*)(	!"#\$"+%&' '(	!"#\$", %&*'(
!"#\$"'%&, &(	!"#\$"\$%&*"(	!"#\$*#%, !'(	!"#\$*!%, +,(
!"#\$*\$, %, !! (	!"#\$*\$' %&&\$ (	!"#\$*\$%&") (	!"#\$*\$"% , \$' (
!"#\$*\$*%&#, (	!"#"##%, +"(	!"#"#!%, ' # (	!"#"#)% , )"(
!"#"#+%, \$*(	!"#"#%&&!! (	!"#"#, %&&\$ (	!"#"#'% , '+' (
!"#"#\$%, ++ (	!"#"#"%&&' (	!"#"#*%, #*(	!"#"#!%&"" (
!"#"!!%&*#(			

! 3:>?'@3A4B>'>A/\*>\*C\*6'DE'\*62BADFD@G'?6FFDD!

1 2 3

H3H6! 'H3//

=I<JIK

1 23'L<=M 1 23'L<;M 1 23'L<NM H80"- 'P H80"- 'J

=I<JK;

1 23'L<=M 1 23'L<;M 1 23'L<NM H80"- 'P H80"- 'J

=I<JKL

1 23'L<=M 1 23'L<;M 1 23'L<QM 1 23'L<NM H80"- 'P H80"- 'J

%109:33;  
<=>??>@<??

00000000000000000000000000000000 (AB"  
7)6+. )33/. 0)\*0#-\$-5:6-+:)6;

!"#\$%#! \$\$ &'()\*+,-.../0123,4'5'(+2,6,7,8,9':2'' ; <=51>=+!?>,@)>' ,%! \$\$ \$

7?5A1\*3,) (1>:,+0',! "#\$%#&' ,(?.+B=2',3' C'?A'3,DE,,() \*+, -. /01/2/3)45/6+0' /-50=+,  
7#'#8fG=2' 'H(0=,I 0=C=>f,6=0+=5=,J=>301,K>1C'2(1+E,L?+=E=5M



! "#\$%"&' " ()#\*&+ (\*, -. /\*\$0&1 2\$\$" 0" %

! "#\$%&'()\*"+,-. '/"O"#&"-'1 '2'3'4'5-'6'7'8'0,98&,(9':\$9''';<==

1 3! >3A'2DFF6@6'RC\*\*>R3A31 "H66! 1 346

1 2 3

/61 6/\*6! 'H3//

!"#, #)%&' *(	!"#, #+%&! &(	!"#, #&%, #*(	!"#, #, %, !\$ (
!"#, #'%, , '(	!"#, #\$\$\$&&, (	!"#, #'%&&\$ (	!"#, #*%&&)(
!"#, !#&"!(	!"#, !!%&+#(	!"#, !)%&, *(	!"#, !+%&, '(
!"#, !&%+, "(	!"#, !, %, ')(	!"#, !'%, ', (	!"#, !\$%, )'(
!"#, !"%&&&(	!"#, !*%, )&(	!"#, )#%&&+(	!"#, )!%&*\$ (
!"#, ,)%&" , (	!"#, ,)+%&&)(	!"#, ,)%&&, &(	!"#, ,), %&! *(
!"#, ,)\$%, #" (	!"#, ,)"%&\$!(	!"#, ,)*%&'!(	!"#, ,+#%&' +(
!"#, ,+!%&, "(	!"#, ,+)% , &+(	!"#, ,++%&* *(	!"#, ,+%&&' +(
!"#, ,+'%&', (	!"#, ,+% , \$(	!"#, ,&#%&&" (	!"#, ,&!% , #\$(
!"#, ,&)%&+&(	!"#, ,&+% , ! , (	!"#, ,&&%&\$&(	!"#, ,&, %&" +(
!"#, ,&'%&" , (	!"#, ,&\$%&*\$ \$(	!"#, ,&"%&)(	!"#, ,&*% , )*(
!"#, , , !% , #*(	!"#, , , )% , \$(	!"#, , , &% , !'(	!"#, , , , % , )*(
!"#, , , '%&, *(	!"#, , , \$% , !! (	!"#, , , "% , &" (	!"#, , , *%&&, (
!"#, , '#%&\$" (			

%109:33;  
<=>??>@<??

0000000000000000000000000000 (AB"  
7)6+. )33/. 0)\*0#-\$-5:6-+;)6;

!"#\$%&'\$\$ &'()\*+,- ./0123,4' 5' (+2,6,7,8,9': 2' ' , ; <=51>=+! ?>, @) >' , %! \$\$ %

7?5A1\* 3,) (1>: ,+0' ,! "#\$%#&' , (?+B=2' ,3' C'\*?A' 3,DE,, ()\*+, -. /01/2/3)45/6+0' /-50=+,  
7# ' #8fG=2' ' H(0=, I 0=C=>f, 6=0=+5=, J =>301, K>1C' 2(1+E, L ? +=E=5M



! "#\$%"&' " ()#\*&+ (\*, -. /\*\$0&1 2\$\$" 0"%

! "#\$%&'()\*"+,-. /"0"#&"-'1'2'3'4'5-'6780,98&, (9':\$9"; <==

1 3! >3A'2DFF6@6'RC\*\*>R3A31 'H66! 1 3 46  
1 23

H3H6! 'H3//

=I <N<=

1 23'L<; M 1 23'L<NM H80''-'P H80''-'J

=I <N; P

1 23'L<=M 1 23'L<; M 1 23'L<LM 1 23'L<QM H80''-'P H80''-'J

=I <NLN

1 23'L<=M 1 23'L<; M 1 23'L<LM 1 23'L<QM H80''-'P H80''-'J

=I <NLJ

1 23'L<=M 1 23'L<; M 1 23'L<LM 1 23'L<QM H80''-'P H80''-'J

=I <NLK

1 23'L<=M 1 23'L<; M 1 23'L<LM 1 23'L<QM H80''-'P H80''-'J

=I <NN<

1 23'L<=M 1 23'L<; M 1 23'L<LM 1 23'L<QM H80''-'P H80''-'J

=I <NNL

1 23'L<=M 1 23'L<; M 1 23'L<LM 1 23'L<QM H80''-'P H80''-'J

%109:33;  
<=>??>@<??

00000000000000000000000000000000 (AB"  
7)6+.)33/. 0)\*0#-\$-5:6-+:)6;

! "#\$%#! \$\$ &' ()\*+,- ., /0123,4' 5' (+2,6,7,8,9': 2'' ,; <=51>=+1?>,@)>' ,%! \$\$

N

7?5A1\* 3,)(1>: ,+0' ,! "#\$%#&' ,(?.+B=2', 3' C' \*?A' 3,DE,, ()\*+, -. /01/2/3)45/6+0' /-50=+,  
7#' #8fG=2' ' H(0=, I 0=C=>f, 6=0+=5=, J =>301, K>1C' 2(1+E, L?+=E=5M



! "#\$%"&' " ()#\*&+ (\*, -. /\*\$0&1 2\$\$" 0" %

! "#\$%&'()\*"+,-. /"0"#&"-1 '2'3'4"5-""6780,98&,(9':\$9""; <==

1 '6'/'2DFF6@6'1 3! 31 H3FFG'?3SB3RCF31 '3FC?3

1 2 3

/61 6/\*6! 'H3//

!"#+!)%&)'(	!"#+!+, , "(	!"#+! , %&'!(	!"#+!' %&&, (
!"#+! \$%, ##(	!"#+! "%&\$"(	!"#+! *%&\$!(	!"#+)!%, #' (
!"#+)+%&' )	!"#+)&%&&*(	!"#+), %&+"(	!"#+)' %&+"(
!"#+)\$%&'!(	!"#+)"%&'#(	!"#+)*%&+)(	!"#++#%, #!(
!"#++! %&' )	!"#++ +%&' ""	!"#++&%&&, (	!"#++, %&, )(
!"#++' %&**(	!"#++"%&\$#(	!"#++&#%&'\$(	!"#+&)% , )&(
!"#++&%&, +(	!"#++&, %&\$, (	!"#++&' %&&"(	!"#++&\$%, !&(
!"#++&"%&' &(	!"#++&*%&\$, (	!"#+, #%&*)(	!"#+, !%, #)(
!"#+, )%&&)(			

1 '6'/'2DFF6@6'1 3! 31 H3FFG'?3SB3RCF31 '3FC?3

1 2 3

H3H6! 'H3//

=I<L=Q  
1 2 3'L<=M    1 2 3'L<;M    1 2 3'L<LM    1 2 3'L<QM    H80"-P    H80"-J

=I<L;<  
1 2 3'L<;M    1 2 3'L<LM    1 2 3'L<QM    1 2 3'L<NM    H80"-P    H80"-J

=I<L;;  
H80"-P       H80"-J

=I<LL;  
1 2 3'L<LM    H80"-P       H80"-J

=I<LLK  
1 2 3'L<LM    1 2 3'L<QM    1 2 3'L<NM    H80"-P       H80"-J

=I<LQ=  
1 2 3'L<=M    1 2 3'L<LM    1 2 3'L<NM    H80"-P       H80"-J

=I<LQQ  
1 2 3'L<=M    1 2 3'L<;M    1 2 3'L<LM    H80"-P       H80"-J

%109:33;  
<=>??>@<??

0000000000000000000000000000000000 (AB"  
7)6+. )33/. 0)\*0#-\$-5:6-+:)6;

! "\$\$#! \$\$ &' ()\*+,- ., /0123,4' 5' (+2,6,7,8,9': 2'' ,; <=51>=+1?>,@)>' ,%! \$\$ 0

7?5A1\* 3,) (1>:, +0' ,! "#\$%#&' ,(?.+B=2', 3' C' \*?A' 3,DE,, ()\*+, -. /01/2/3)45/6+0' /-50=+,  
7# #8fG=2' ' H(0=, I 0=C=>f, 6=0+=5=, J =>301, K>1C' 2(1+E, L ?+=E=5M





! "#\$%"&' " ()#\*&+ (\*, -. /\*\$0&1 2\$\$" 0" %

! "#\$%&'()\*"+,-. /"O"#&"-1 '2'3'4"5-""6780,98&, (9':\$9""; <==

A>! 1 3F3'2DFF6@6"1 C?3\*\*CHCSB3

1 2 3

/61 6/\*6! 'H3//

!"#' +), !+(	!"#' ++%, !+(	!"#' +&%, '+(	!"#' +, %&*+(
!"#' +\$, &' (	!"#' +%&\$"(	!"#' +*%&\$, (	!"#' &#%, )!(
!"#' &!&"(	!"#' &)% , &*(	!"#' &&%&' #(	!"#' &' %&'*(
!"#' &\$%, , ' (	!"#' &*%&+&(	!"#' , #&)&(	!"#' , !%&'!(
!"#' , )%, )#(	!"#' , +%&' (	!"#' , &%&+, (	!"#' , , %&*"(
!"#' , '%&' (	!"#' , \$%, #&(	!"#' , "%, )+(	!"#' , *%&*, (
!"#' ' #%, #!(	!"#' ' !%&' *(	!"#' ' )%&'!(	!"#' ' +%&&, (
!"#' ' &%, !! (	!"#' ' , %&' &(	!"#' ' ' %&, "(	!"#' ' \$%&+!(
!"#' ' "%, !" (	!"#' ' *%+** (	!"#' '\$#%, !, (	!"#' '\$!%+ "\$ (
!"#' '\$), )' (	!"#' '\$&&\$' (	!"#' '\$, %&+, (	!"#' '\$' %, , ! (
!"#' '\$\$&, "(	!"#' '\$"% , !' (		

A>! 1 3F3'2DFF6@6"1 C?3\*\*CHCSB3

1 2 3

H3H6! 'H3//

=I<PQL

1 23'L<; M	1 23'L<LM	1 23'L<QM	1 23'L<NM	H80"- 'P	H80"- 'J
------------	-----------	-----------	-----------	----------	----------

=I<PQN

1 23'L<; M	1 23'L<LM	1 23'L<QM	1 23'L<NM	H80"- 'P	H80"- 'J
------------	-----------	-----------	-----------	----------	----------

=I<PQI

1 23'L<; M	1 23'L<LM	1 23'L<QM	1 23'L<NM	H80"- 'P	H80"- 'J
------------	-----------	-----------	-----------	----------	----------

=I<PJL

1 23'L<; M	1 23'L<LM	1 23'L<QM	1 23'L<NM	H80"- 'P	H80"- 'J
------------	-----------	-----------	-----------	----------	----------

%109:33;  
<=>??>@<??

0000000000000000000000000000000000 (AB"  
7)6+.)33/. 0)\*0#-\$-5:6-+:)6;

!"#\$%&'\$\$ &'()\*+,-.../0123,4'5'(+2,6,7,8,9':2'' ,; <=51>=+!>?,@)>' ,%! \$\$\$

7?5A1* 3,)(1>: ,+0' ,! "#\$%#&' , (?+B=2' ,3' C'*?A' 3,DE,,() *+, -. /01/2/3)45/6+0' /-50=+, 7# ' #8fG=2' ' H(0=, I 0=C=>f, 6=0=+5=, J =>301, K>1C' 2(1+E, L?+=E=5M
--



! "#\$%" &' " ()#\*&+ (\*, -./\*\$0&1 2\$\$" 0" %

!"#\$%&'()\*+,-./"O"#&"-1'2'3'4'5-""6780,98&,(9':\$9""; <==

C'2'2DFF6@6'3FC?3

1 2 3

/61 6/\*6! 'H3//

!""!)\$!%&), (	!""!)\$)%&, *(	!""!)\$+%&&+(	!""!)\$, %, , #(</td></tr> </table>
----------------	----------------	---------------	-------------------------------------

C'2'2DFF6@6'3FC?3

1 2 3

H3H6! 'H3//

=I=; JQ

1 23'L<=M	1 23'L<; M	1 23'L<LM	1 23'L<QM	H80"- 'P	H80"- 'J
-----------	------------	-----------	-----------	----------	----------

=I=; IN

1 23'L<QM	1 23'L<NM	H80"- 'P	H80"- 'J		
-----------	-----------	----------	----------	--	--

=I=; K=

1 23'L<=M	1 23'L<; M	1 23'L<LM	1 23'L<NM	H80"- 'P	H80"- 'J
-----------	------------	-----------	-----------	----------	----------

=I=; KP

1 23'L<; M	1 23'L<LM	1 23'L<NM	H80"- 'P	H80"- 'J	
------------	-----------	-----------	----------	----------	--

=I=L<P

1 23'L<=M	1 23'L<; M	1 23'L<LM	H80"- 'P	H80"- 'J	
-----------	------------	-----------	----------	----------	--

=I=L=<

1 23'L<=M	1 23'L<LM	1 23'L<QM	H80"- 'P	H80"- 'J	
-----------	-----------	-----------	----------	----------	--

=I=L=N

1 23'L<=M	H80"- 'P	H80"- 'J			
-----------	----------	----------	--	--	--

%109:33;  
<=>??@<??

000000000000000000000000000000000000 (AB"  
7)6+. )33/. 0)\*0#-\$-5:6-+:)6;

!""#\$%#! \$\$ &' ()\*+,-./0123,4' 5' (+2,6,7,8,9': 2'' ; <=51>=+1?>,@)>' ,%! \$\$

P

7?5A1* 3,)(1>:, +0' ,! "#\$%#&' , (?.+B=2' , 3' C' *?A' 3, DE,, () *+, -. /01/2/3) 45/6+0' /-50=+, 7#' #8fG=2' ' H(0=, I 0=C=>f, 6=0=+5=, J =>301, K>1C' 2(1+E, L?+=E=5M
---



! "\$%" & ' " ()#\*&+( \*, -. /\*\$0&1 2\$\$" 0"%

! "#\$%&'()\*"+, -. /"0"#&"-' 1'2'3'4'5-"6780,98&, (9':\$9""; <==

1 3! '3\*B3A3/>C/'6A@>A66! >A@'2DFF6@6'RD\*B31 3A@3F31

1 2 3

/61 6/\*6! 'H3//

!"#&&!%, !\*( !"#&&)%&'!( !"#&&+%&! &( !"#&&, %&, '(  
!"#&&' %&+\*( !"#&&\$\$, !"( !"#&&''%&, \*( !"#&, #%, +\$(  
!"#&, !%, #, ( !"#&, )%, #\*( !"#&, +%, +\*( !"#&, &%&&\$(  
!"#&, '%, #, ( !"#&, \$%&\$( !"#&, "%, &)( !"#&, \*%&\*, (  
!"#&' #%, #\*( !"#&' !%&' '( !"#&' +%, &+( !"#&' &%, #, (  
!"#&' , %&' #( !"#&' '%, ' &( !"#&' \$%, !#(

1 3! '3\*B3A3/>C/'6A@>A66! >A@'2DFF6@6'RD\*B31 3A@3F31

1 2 3

H3H6! 'H3//

=I<QQK

1 2 3'L<; M 1 2 3'L<LM 1 2 3'L<QM 1 2 3'L<NM H80''-'P H80''-'J

=I<QP;

1 2 3'L<LM 1 2 3'L<NM H80''-'P H80''-'J

%109:33;  
<=>??>@<??

00000000000000000000000000 (AB"  
7)6+. )33/. 0)\*0#\$-5:6-+:)6;

! "\$\$#!\$\$ &' ()\*+, - , , /0123, 4' 5' (+2, 6, 7, 8, 9': 2' ', ; <=51>=+1?>,@)' , %! \$\$

Q

7?5A1\* 3,) (1>: ,+0' ,! "#\$%#&' , (?+B=2' ,3' C'?A' 3,DE,, ()\*+, -. /01/2/3)45/6+0' /-50=+,  
7# #8FG=2' ' H(0=, I 0=C=>f, 6=0=+5=, J =>301, K>1C' 2(1+E, L?+=E=5M



! "#\$%"&' " ()#\*&+ (\*, -. /\*\$0&1 2\$\$" 0" %

! "#\$%&'()\*"+,-. /"O"#&"-'1 '2'3'4'5-'6780,98&, (9':\$9""; <==

! 3:3@>! >'2DFF6@6'DE'/D2>3F'/2>6A26/'R3F31 3//6! G

1 2 3

/61 6/\*6! 'H3//

!"#\$! !%&\$) ( !"#\$(!)%&+&( !"#\$(, %&!\$( !"#\$(!%&' &(
!"#\$! "%&)) ( !"#\$( \*%, &\$ ( !"#\$()#%&'\$( !"#\$()!%, !#(
!"#\$%)%, #"( !"#\$()+%&'\*( !"#\$()&%&' # ( !"#\$(), %&\$! (
!"#\$%)\$%&!+( !"#\$()"%&" , ( !"#\$()\*%&' ( !"#\$()+#%, , &(
!"#\$+!%&, \$( !"#\$(+)%&'! ( !"#\$(++%, !, ( !"#\$(+&%, #" (
!"#\$+, %&&\$ ( !"#\$(+' %, !&( !"#\$(+\$%, +&( !"#\$(+'%, , &(
!"#\$+\*%, &\*( !"#\$(&#%&\$\*( !"#\$(&!%&") ( !"#\$(&)%&#, (
!"#\$&+%&&\$ ( !"#\$(&&%, #+( !"#\$(&, %&' ) ( !"#\$(&' %+\$\$(
!"#\$&\$%&+! ( !"#\$(&"%&+\$( !"#\$(&\*%&'"" ( !"#\$(, #%&\$\*(
!"#\$, )%&\$\$ (

! 3:3@>! >'2DFF6@6'DE'/D2>3F'/2>6A26/'R3F31 3//6! G

1 2 3

H3H6! 'H3//

=|<J=L
1 2 3'L<=M 1 2 3'L<;M 1 2 3'L<QM 1 2 3'L<NM H80"-P H80"-J
=|<J=Q
1 2 3'L<=M 1 2 3'L<;M 1 2 3'L<QM 1 2 3'L<NM H80"-P H80"-J
=|<J=P
1 2 3'L<=M 1 2 3'L<;M 1 2 3'L<LM 1 2 3'L<NM H80"-P H80"-J
=|<J;P
1 2 3'L<=M 1 2 3'L<;M 1 2 3'L<LM 1 2 3'L<QM H80"-P H80"-J
=|<JN=
1 2 3'L<=M 1 2 3'L<NM H80"-P H80"-J
=|<JNL
1 2 3'L<=M 1 2 3'L<;M 1 2 3'L<LM 1 2 3'L<NM H80"-P H80"-J

%109:33;
<=>??>@<??

0000000000000000000000000000000000 (AB"
7)6+. )33/. 0)\*0#-\$-5:6-+:)6;

! "\$\$%#! \$\$ &' ()\*+,-. /0123,4' 5' (+2,6,7,8,9': 2'' ,; <=51>=+!>?,@)>' ,%! \$\$

R

7?5A1\* 3,) (1>:, +0' ,! "\$\$%#&' , (?+B=2', 3' C' \*?A' 3, DE,, () \*+, -. /01/2/3) 45/6+0' /-50=+,
7# ' #8fG=2' ' H(0=, I 0=C=>f, 6=0+=5=, J =>301, K>1C' 2(1+E, L?+=E=5M



! "#\$%" & ' " ()#\*&+ (\*, -. /\*\$0&1 2\$\$" 0" %

! "#\$%&'()\*+,-.'/"O"#&"-1'2'3'4"5-""6780,98&,(9':\$9"";<==

/2'1'/'/2BDDF'DE'\*62BADFD@G'3A4'1 3A3@61 6A\*T'1 C\*\*D1'I'3FC?3

1 2 3

/61 6/\*6! 'H3//

!"#&!%&'\*( !"#&)%&\$)( !"#&'%,!'( !"#&\$%&)! (
!"#&"%,)#( !"#&\*%&+, ( !"#",#%,), ( !"#",!%&&)(
!"#",),%!, ( !"#",+%,!\$( !"#",&%&""( !"#", "%&"" (
!"#", \*%&, +( !"#"" #&&&&( !"#"" !%&, #( !"#"" )%&)#(
!"#"" +%, , +( !"#"" &%, ' +( !"#"" , %&, ! ( !"#"" ' %&' #(
!"#"" \$%&+' ( !"#"" "%&\$&( !"#"" \*%, !' ( !"#"" \$#%&, +(
!"#" \$!%&+\$ ( !#" \$+%&+#( !#" \$&%&"" , ( !#" \$' %&\*"" (
!"#" \$%&&' ( !#" \$\*%, #"" ( !#" "" #&&"" ( !#" "" !%, #"" (
!"#" "" )%&' , ( !#" "" +%, +! ( !#" "" &%, ## ( !#" "" , %, &+(
!"#" "" %&&\* (

/2'1'/'/2BDDF'DE'\*62BADFD@G'3A4'1 3A3@61 6A\*T'1 C\*\*D1'I'3FC?3

1 2 3

H3H6! 'H3//

=I<IQ L
1 23'L<=M 1 23'L<; M 1 23'L<LM 1 23'L<NM H80"-P H80"-J
=I<IQ Q
1 23'L<=M 1 23'L<; M 1 23'L<LM H80"-P H80"-J
=I<IQ N
1 23'L<LM 1 23'L<NM H80"-P H80"-J
=I<I NN
1 23'L<=M 1 23'L<; M 1 23'L<LM 1 23'L<NM H80"-P H80"-J
=I<I NP
1 23'L<; M 1 23'L<LM 1 23'L<NM H80"-P H80"-J
=I<I NJ
1 23'L<=M 1 23'L<; M 1 23'L<LM 1 23'L<NM H80"-P H80"-J
=I<I J;
1 23'L<=M 1 23'L<; M 1 23'L<LM 1 23'L<QM H80"-P H80"-J

%109:33;
<=>??@<??

00000000000000000000000000000000 (AB"
7)6+. )33/. 0)\*0#-\$-5:6-+:)6;

! "#\$%#! \$\$ &'()\*+,-./0123,4'5'(+2,6,7,8,9':2'' ,;<=51>=+1?>,@)>' ,%! \$\$

S

7?5A1\* 3,) (1>:,+0',! "#\$%#&' , (?+B=2',3' C'\*?A' 3,DE,,())\*+, -. /01/2/3)45/6+0' /-50=+,
7#' #8fG=2' ' H(0=,I 0=C=>f,6=0=+5=,J =>301,K>1C' 2(1+E,L?+=E=5M





! "#\$%"&' " ()#&+ (\*, -. /\*\$0&1 2\$\$" 0" %

! "#\$%&'()"+,-. /"O"#&"-1'2'3'4'5-"6780,98&,(9':\$9"' ; <==

E646! 3F>A/\*>\*C\*6'DE'/2>6A26'3A4'\*62BADFD@G'1 DDR3AAC! '  
3A@31 3F>

1 2 3

/61 6/\*6! 'H3//

!"#!!!%&*)	( !"##!!)%, +'	( !"##!!!+%&* *	( !"##!!!&%, )'
!"#!!, %, ),	( !"##!!!%&\$)	( !"##!!!%, !)	( !"##!!*%&, &
!"#!)##%, #'	( !"##!!)!%&),	( !"##!)+%&+'	( !"##!)&%&! *
!"#!), %, !)	( !"##!)' %&, !	( !"##!)\$%&' )	( !"##!)"%&\$)
!"#!)+%&+"*	( !"##!+##%&"	( !"##!+)%%, !*	( !"##!++%#, #!
!"#!+&%&#"	( !"##!+, %&))	( !"##!+' %&"#	( !"##!+\$\$%, !&
!"#!+%"%, ),	( !"##!+%&"#	( !"##!&#%&*!	( !"##!&!%&"
!"#!&)%+*	( !"##!&+%&*&	( !"##!&%&' +	( !"##!&, %&&' )
!"#!&'%, #!	( !"##!&\$%, )" )	( !"##!&'%, ),	( !"##!&*%&* ,
!"#!, #%, ''	( !"##!, !%, ,,	( !"##!, )%&"'	( !"##!, +%&&#
!"#!, &%, )'	( !"##!, %, &\$,	( !"##!, '%&"'	( !"##!, "%&&&
!"#!, *%&'!	( !"##!' #%' !'	( !"##!' !%&*&	( !"##!')%&\$*

β46! 3F>A/\*>\*C\*6'DE'/2>6A26'3A4'\*62BADFD@G'1 DDR3AAC! '3A@31 3||

1 2 3

H3H6! 'H3//

=|<==J

1 2 3'L<; M	1 2 3'L<LM	1 2 3'L<QM	1 2 3'L<NM	H80"- 'P	H80"- 'J
-------------	------------	------------	------------	----------	----------

=|<; ;

1 2 3'L<LM	1 2 3'L<NM	H80"- 'P	H80"- 'J
------------	------------	----------	----------

=|<=NJ

1 2 3'L<LM	1 2 3'L<QM	1 2 3'L<NM	H80"- 'P	H80"- 'J
------------	------------	------------	----------	----------

%109:33;  
<=>??>@<??

00000000000000000000000000 (A\$"  
7)6+. )33/. 0)\*0#\$-5:6-+ :)6;

!"#\$%#&\$\$ &'()\*+,-. /0123,4'5'(+2,6,7,8,9':.2'' ; ; <=51>=+1?>,@)>' ,%! \$\$ \$\$

7?5A1\* 3,)(1>: ,+0' ,! "#\$%#&' , (?.+B=2' 3' C' \*?A' 3,DE,,())\*+ , -. /01/2/3)45/6+0' /-50=+,  
7# ' #8FG=2' ' H(0=, I 0=C=>F, 6=0+=5=, J =>301, K>1C' 2(1+E, L? +=E=5M



! "#\$%"&' " ()#\*&+ (\*, -. /\*\$0&1 2\$\$" 0" %

! "#\$%&'()\*"+,-. /"O"#&"-'1 '2'3'4"5-""'6780,98&, (9':\$9""; <==

>F3B>3'2DFF6@6'DE''6A@>A66! >A@'3A4""\*62BADFD@G'1 CF3?DD! '1 DD?3\*\*CHCSB3

1 2 3

/61 6/\*6! 'H3//

!"#! \*!%&\*'( !"#!\*%&\*&( !"#!\*+%&' &( !"#!\*&%, )\*(  
!"#! \*' %&"\*( !"#!\*\$, +\$( !"#!\*"%&' #( !"#)##%, +\$(  
!"#)#!%, +)( !"#)#%, +&( !"#)#+%, )#( !"#)#&%&&+\$(  
!"#)#, %, !\*( !"#)#' %&\*\*( !"#)#\$, , \*( !"#)#"%, \$\$(  
!"#)#\*%&)\$ ( !"#)!#%&!!(

3'2DFF6@6'DE''6A@>A66! >A@'3A4""\*62BADFD@G'1 CF3?DD! '1 DD?3\*\*CH

1 2 3

H3H6! 'H3//

=| <=KN  
1 2 3'L<; M 1 2 3'L<NM H80"- 'P H80"- 'J  
=| <=KK  
H80"- 'P

%109:33;  
<=>??>@<??

00000000000000000000000000000000 (AB"  
7)6+. )33/. 0)\*0#-\$-5:6-+:)6;

! "\$\$%#! \$\$ &' ()\*+, - ., /0123, 4' 5' (+2, 6, 7, 8, 9': 2' ', ; <=51>=+1?>, @)>' , %! \$\$ \$%  
7?5A1\* 3,) (1>:, +0' ,! "#\$%#&' , (?+B=2', 3' C' \*?A' 3, DE,, () \*+, -. /01/2/3) 45/6+0' /-50=+,  
7# ' #8fG=2' ' H(0=, I 0=C=>f, 6=0+=5=, J =>301, K>1C' 2(1+E, L?+=E=5M





! "#\$%"&' " ()#\*&+ (\*, -. /\*\$0&1 2\$\$" 0" %

! "#\$%&'()\*"+,-. /"O"#&'-'1'2'3'4'5-'6'7'8'9,98&,(9':\$9'''; <==

1 DCA\*'S>DA'2DFF6@6'DE'6A@>A66! >A@'R3431 1 3A>\* \* 3

1 2 3

/61 6/\*6! 'H3//

! "#, \*)%&, ,( !"#, \*+%&&' ( !"#, \*&%, +( !"#, \*, %&"&(

1 DCA\*'S>DA'2DFF6@6'DE'6A@>A66! >A@'R3431 1 3A>\* \* 3

1 2 3

H3H6! 'H3//

=I<NK=

1 2 3'L<=M 1 2 3'L<;M 1 2 3'L<QM 1 2 3'L<NM H80"- 'P H80"- 'J

%109:33;  
<=>??>@<??

00000000000000000000000000000000 (AB"  
7)6+.)33/. 0)\*0#-\$-5:6-+;)6;

! "#\$%\$! \$\$ &' ()\*+,- ., /0123,4' 5' (+2,6,7,8,9': 2' ' , ; <=51>=+! ?>,@) >' ,%! \$\$ \$N

7?5A1\* 3,)(1>: ,+0' ,! "#\$%#&' , (?+B=2',3' C' \*?A' 3,DE,,() \*+, -. /01/2/3)45/6+0' /-50=+,  
7# #8fG=2' ' H(0=,I 0=C=>f,6=0+5=,J =>301,K>1C' 2(1+E, L?+=E=5M



! "#\$%"&' " ()#\*&+ (\*, -. /\*\$0&1 2\$\$" 0" %

! "#\$%&'()\*"+,-. /"O"#&"-'1 '2'3'4"5-"6780,98&,(9':\$9""; <==

/21 /'/2BDDF'DE'6A@@|'V'\*62BADFD@G'R3! CRC\*\*G

1 2 3

/61 6/\*6! 'H3//

! "#&+% , &"( ! "#& , % , )\*( ! "#&' % , #"( ! "#&\$%&+' (
! "#&"%&\*"( ! "# , # , % , !)( ! "# , ! % , ! , ( ! "# , )%&\*'(
! "# , + % , +\$( ! "# , , %&\$ , ( ! "# , ' %& )!( ! "# , \$%&&\*'(
! "# , " % , & , ( ! "# , \*%& , ' ( ! "# ' # %&' , ( ! "# ' )%&\$#(
! "# ' + %&&)( ! "# ' ' %&+!( ! "# ' \$%&+)( ! "# ' " % , ! '(
! "# ' \* % , ! )( ! "# \$%&\*&( ! "# \$! %&" + (

/21 /'/2BDDF'DE'6A@@|'V'\*62BADFD@G'R3! CRC\*\*G

1 2 3

H3H6! 'H3//

=|=<Q=
H80"- 'P H80"- 'J
=|=<Q;
1 2 3'L<=M 1 2 3'L<; M 1 2 3'L<QM 1 2 3'L<NM H80"- 'P H80"- 'J
=|=<QK
1 2 3'L<=M 1 2 3'L<; M 1 2 3'L<LM 1 2 3'L<QM H80"- 'P H80"- 'J
=|=<NQ
H80"- 'P H80"- 'J
=|=<P=
1 2 3'L<=M 1 2 3'L<; M 1 2 3'L<LM 1 2 3'L<NM H80"- 'P H80"- 'J
=|=<PQ
1 2 3'L<=M 1 2 3'L<; M 1 2 3'L<LM 1 2 3'L<NM H80"- 'P H80"- 'J
=|=<PN
1 2 3'L<=M 1 2 3'L<LM 1 2 3'L<QM 1 2 3'L<NM H80"- 'P H80"- 'J

%109:33;
<=>??>@<??

00000000000000000000000000000000 (AB"
7)6+. )33/. 0)\*0#-\$-5:6-+:)6;

! "#\$%#! \$\$ &' ()\*+ , - . , / 0 1 2 3 , 4 ' 5 ' ( + ' 2 , 6 , 7 , 8 , 9 ' : 2 ' ' , ; < = 5 1 > = + 1 ? > , @ ) > ' , % ! \$ \$ \$ 0
7?5A1\* 3,) (1>: ,+0' ,! "#\$%#&' , (?+B=2' ,3' C'?A' 3,DE,, ()\*+ , -. /01/2/3)45/6+0' /-50=+,
7# ' #8fG=2' ' H(0=, I 0=C=>f, 6=0+=5=, J =>301, K>1C' 2(1+E, L?+=E=5M



! "#\$%"&' " ()#\*&+ (\*, -. /\*\$0&1 2\$\$" 0" %

! "#\$%&'()\*+,-. /"O"#&"-'1'2'3'4"5-"6780,98&,(9':\$9""; <==

[ /! 66'A3! 3G3A3'@C! CRCF31 '2DFF6@6'DE'6A@>A66! >A@'RDF6A2B6! ! G ]

123

/61 6/\*6! 'H3//

!'"!!!'!%&\$\*( !'"!!!')%&' &( !'"!!!'+%, '\$( !'"!!!' &%&&#( !'"!!!', %&)#(

%109:33;  
<=>??>@<??

00000000000000000000000000000000 (AB"  
7)6+. )33/. 0)\*0#-\$-5:6-+;)6;

! "\$%#&! \$\$ &' ()\*+,- .../0123,4' 5' (+2,6,7,8,9': 2' ', ; <=51>=+1?>,@)>' ,%! \$\$ \$"

[ 7?5A1\* 3,)(1>:,+0' ,! "#\$%#&' ,(?.+B=2',3' C' \*?A' 3,DE,, ()\*+ , -. /01/2/3)45/6+0' /-50=+, 7# ' #8fG=2' ' H(0=,I 0=C=>f,6=0=+5=,J =>301,K>1C' 2(1+E,L?+=E=5||



! "#\$%"&' " ()#\*&+ (\*, -. /\*\$0&1 2\$\$" 0" %

! "#\$%&'()\*"+,-. /"O"#&"-'1 '2'3'4'5-""6780,98&, (9':\$9""; <==

-----  
/3>A\*@>\*/'2DFF6@6'DE'6A@>A66! >A@'H3\*B31 C\*\*D1 'R\*1  
-----

1 2 3

/61 6/\*6! 'H3//

!"#\*)!%, &+( !"#\*)%&&, ( !"#\*)+%&\$)( !"#\*)&%, )\*(  
!"#\*), %, ')( !"#\*)' %, \$+( !"#\*)\$, !' ( !"#\*)"%&\*(  
!"#\*)\*%, &&( !"#\*+##, !, ( !"#\*+!%&"\*( !"#\*+)%&&( )  
!"#\*++%, !\*( !"#\*+%&, &+( !"#\*+, %&, \*( !"#\*+' %, &&( )  
!"#\*+\$%&' +( !"#\*+%&\*( !"#\*+\*%&, \*( !"#\*&##, ##( )  
!"#\*&!%, #&( !"#\*&+%, +( !"#\*&&&)&( !"#\*&, %, )#( )  
!"#\*&' %&\*\$ ( !"#\*&\$%, !&( !"#\*&\*%, )' ( )

-----  
/3>A\*@>\*/'2DFF6@6'DE'6A@>A66! >A@'H3\*B31 C\*\*D1 'R\*1  
-----

1 2 3

H3H6! 'H3//

=I <KQ;

1 2 3'L<=M 1 2 3'L<LM 1 2 3'L<QM 1 2 3'L<NM H80"- 'P H80"- 'J

=I <KQI

1 2 3'L<=M 1 2 3'L<QM 1 2 3'L<NM H80"- 'P H80"- 'J

=I <KN<

1 2 3'L<=M 1 2 3'L<; M 1 2 3'L<LM 1 2 3'L<NM H80"- 'P H80"- 'J

%1 09:33;  
<=>??>@<??

00000000000000000000000000000000 (AB"  
7)6+. )33/. 0)\*0#-\$-5:6-+:)6;

-----  
! "\$%#&! \$\$ &' ()\*+, - ., / 0123,4' 5' (+ '2,6,7,8,9' : 2' ' ; <=51>=+1?>,@)' %! \$\$ \$P

-----  
7?5A1\* 3,) (1>:, +0', ! "#\$%#&' , (? .+B=2', 3' C' \*?A' 3, DE,, () \*+, -. / 01/2/3) 45/6+0' / - 50=+,  
7# ' #8fG=2' ' H(0=, I 0=C=>f, 6=0+=5=, J =>301, K>1C' 2(1+E, L?+=E=5M  
-----





! "#\$%"&' " ()#\*&+ (\*, -. /\*\$0&1 2\$\$" 0" %

! "#\$%&'()\*"+,-. /"O"#&"-1 '2'3'4"5-""6780,98&, (9':\$9""; <==

R! >/ \*C':GD\* B>'2DFF6@6'DE'1 3A3@61 6A\*'3A4'\*62BADFD@G'  
2B6\*B>HCSB3

1 2 3

/61 6/\*6! 'H3//

!"#)&!%&\*\* ( !"#)&)%&\$\$ ( !"#)&+%&\$, ( !"#)&, %&&" ( !"#)&' %&+&( !"#)&\$%&' + ( !"#)&\*%&"\$ ( !"#), #%, +, ( !"#), !%, &' ( !"#), )%&\$! ( !"#), +% , + ( !"#), &%&' ) ( !"#), '%, ) \* ( !"#), "%, #\* ( !"#), \*%, # ( !"#)' #%&\* ( !"#)' !%&)) ( !"#)' )%&\* ( !"#)' &%&\* ( !"#)' , %&, # ( !"#)' '%, ## ( !"#)' \$%&' + ( !"#)' \$#%&\*! ( !"#)' \$)%&\* ( !"#)' \$+%&\$\$ ( !"#)' \$%&, )# ( !"#)' \$'%&\$& ( !"#)' \$\$%&\$' (

|| >/ \*C':GD\* B>'2DFF6@6'DE'1 3A3@61 6A\*'3A4'\*62BADFD@G'2B6\*B>HCSB|

1 2 3

H3H6! 'H3//

=I<; QQ  
1 2 3'L<; M 1 2 3'L<NM H80"- 'P H80"- 'J  
=I<; QI  
1 2 3'L<; M 1 2 3'L<LM 1 2 3'L<QM 1 2 3'L<NM H80"- 'P H80"- 'J  
=I<; NJ  
H80"- 'P H80"- 'J  
=I<; PI  
1 2 3'L<=M 1 2 3'L<LM 1 2 3'L<QM 1 2 3'L<NM H80"- 'P H80"- 'J  
=I<; PK  
1 2 3'L<=M 1 2 3'L<; M 1 2 3'L<LM H80"- 'P H80"- 'J  
=I<; J=  
1 2 3'L<; M 1 2 3'L<LM 1 2 3'L<QM 1 2 3'L<NM H80"- 'P H80"- 'J

%109:33;  
<=>??>@<??

00000000000000000000000000000000 (AB"  
7)6+.)33/. 0)\*0#-\$-5:6-+):6;

! "#\$%#! \$\$ &' ()\*+,- ., /0123,4' 5' (+2,6,7,8,9': 2' ' ,; <=51>=+1?>,@)>' ,%! \$\$ \$R

7?5A1\* 3,)(1>:,+0',! "#\$%#&' ,(?.+B=2',3' C'?A' 3,DE,,() \*+, -. /01/2/3)45/6+0' /-50=+,  
7# ' #8fG=2' ' H(0=, I 0=C=>f,6=0+=5=,J =>301,K>1C' 2(1+E,L?+=E=5M



! "#\$%"&' " ()#\*&+ (\*, -. /\*\$0&1 2\$\$" 0" %

! "#\$%&'()\*"+,-. /"O"#&"-1 '2'3'4"5-""6780,98&, (9':\$9""; <==

46'H3CF'>A/\*>\*C\*6'DE'/2>6A26V\*62BADFD@G'3A@31 3FG

1 2 3

/61 6/\*6! 'H3//

!"##&!%, #+(	!"##&)%&' &(	!"##&+%, )+(	!"##&&%, +*(
!"##&, %&\$, (	!"##&' %&! \$(	!"##&\$%, +"(	!"##&"%&" , (
!"##&*%&+&(	!"##, #%&, *(	!"##, !%, #&(	!"##, )%, ##(
!"##, +%&, )(	!"##, , %, !, (	!"##, '%&+&(	!"##, \$%&, *(
!"##, "%&" +(	!"##, *%&" +(	!"##' #%, &&(	!"##' !%, +#(
!"##' )%&" , (	!"##' +%&"\$(	!"##' &%, #, (	!"##' ' %, +\$(
!"##' \$%, #\$(	!"##' "%, +)(	!"##' *%, +#(	!"##\$#%, &#(
!"##\$!%, !#(	!"##\$)%&, \$(	!"##\$+%, ), (	!"##\$&%&, '(
!"##\$, %&\$!(	!"##\$' %&, '(	!"##\$\$%&"!(	

46'H3CF'>A/\*>\*C\*6'DE'/2>6A26V\*62BADFD@G'3A@31 3FG

1 2 3

H3H6! 'H3//

=I <<NQ

H80"- 'P H80"- 'J

=I <<PN

1 2 3'L<=M 1 2 3'L<;M 1 2 3'L<LM 1 2 3'L<QM H80"- 'P H80"- 'J

%109:33;  
<=>??>@<??

00000000000000000000000000000000 (AB"  
7)6+. )33/. 0)\*0#-\$-5:6-+:)6;

!"#\$%#! \$\$ &'()\*+,-.,/0123,4'5'(+2,6,7,8,9':2'' ,; <=51>=+!?>,@)>' ,%! \$\$ \$\$

7?5A1\* 3,) (1>:, +0' ,! "#\$%#&' , (?.+B=2' ,3' C' \*?A' 3,DE,, () \*+, -. /01/2/3)45/6+0' /-50=+,  
7# ' #8fG=2' ' H(0=, I 0=C=>f, 6=0+=5=, J =>301, K>1C' 2(1+E, L?+=E=5M



! "#\$%&' ()#\*&+ (\*, -. /\*\$0&1 2\$\$" 0" %

! "#\$%&'()\*+,-. /"0"1 2'3'4"5-""6780,9&&, (9':\$9""; <==

1 3! '3\*B3A3/ >DC/'2DFF6@6'ED! '34?3A264/'\*C4>6/'\*B>! C?3FF3

1 2 3

/61 6/\*6! 'H3//

! "#+"! %, )&(	! "#+")%&), (	! "#+ "+%&+, (	! "#+"\$%&*+(
! "#+ "*"%, #&(	! "#+*#%, #" (	! "#+*! %, )*(	! "#+*)%&'\$(
! "#+*+%, +)(	! "#+*%&&+)(	! "#+* %, &,\$(	! "#+* ' %, &+(
! "#+*"%&*"(	! "#+*%*, ##(	! "#&##%, &+(	! "#&#!%&*!(
! "#&#)%&"*(	! "#&#%&&\$#(	! "#&#' %&\$\$(	! "#&#\$%&' +(
! "#&#"%&"" (	! "#&#*%&*)(	! "#&! #%&\$)(	! "#&! !%&\$, (

1 3! '3\*B3A3/ >DC/'2DFF6@6'ED! '34?3A264/'\*C4>6/'\*B>! C?3FF3

1 2 3

H3H6! 'H3//

=I<LIQ					
1 23'L<=M	1 23'L<;M	1 23'L<QM	1 23'L<NM	H80"-'P	H80"-'J
=I<LIN					
1 23'L<=M	1 23'L<;M	1 23'L<QM	1 23'L<NM	H80"-'P	H80"-'J
=I<LIP					
1 23'L<=M	1 23'L<NM	H80"-'P	H80"-'J		
=I<LII					
H80"-'P	H80"-'J				
=I<LKJ					
1 23'L<=M	1 23'L<QM	1 23'L<NM	H80"-'P	H80"-'J	
=I<Q<L					
1 23'L<=M	1 23'L<;M	1 23'L<QM	1 23'L<NM	H80"-'P	H80"-'J
=I<Q<N					
1 23'L<=M	1 23'L<;M	H80"-'P	H80"-'J		

%109:33;  
<=>??>@<??

00000000000000000000000000000000 (AB"  
7)6+.)33/. 0)\*0#-\$-5:6-+):6;

! "\$\$%#! \$\$ &' ()\*+, - . /, /0123,4' 5' (+ '2,6,7,8,9' : 2' ' , ; <=51>=+1?>, @)>' , %! \$\$ %!

7?5A1\* 3,) (1>: ,+0' ,! "\$\$%#&' , (?+B=2' ,3' C' \*?A' 3,DE,, ()\*+, -. /01/2/3)45/6+0' /-50=+,  
7#' #8fG=2' ' H(0=, I 0=C=>f,6=0+=5=,J =>301,K>1C' 2(1+E,L?+=E=5M





! "#\$%"&' " ()#\*&+ (\*, -. /\*\$0&1 2\$\$" 0" %

! "#\$%&'()\*"+,-. /"O"#&"-1 '2'3'4"5-""'6780,98&, (9':\$9""; <==

/3A\*B>@>! >'2DFF6@6'DE'2D1 HC\*6! '/2>6A26/'?3SB>\*B3F3

1 2 3

/61 6/\*6! 'H3//

!"#*"!%&&!(	!"#*"')%&, '(	!"#*"'+%&+'(	!"#*"&%&+&(
!"#*" , %, '#(	!"#*"'' % , !! (	!"#*"''%&++(	!"#*"''%&, &(
!"#**#%&!)(	!"#**!%, )"(	!"#**)% , &#(	!"#**+%, !' (
!"#**&%, ' "(	!"#** , %&)+ (	!"#**' % , !)(	!"#**"% , !"(
!"#**%&*\$(	!"!##%# , #' (	!"!##!%&"*(	!"!##)% , #+(
!"!##+%&"&(	!"!##&%&*'(	!"!## , %&+#(	!"!##' %&\$!(
!"!##\$%&\$"(	!"!##"% , )+(	!"!##!#%&\$+(	!"!##!#!% , !\$(
!"!#!)% , +\$(	!"!#!+%, , )(		

/3A\*B>@>! >'2DFF6@6'DE'2D1 HC\*6! '/2>6A26/'?3SB>\*B3F3

1 2 3

H3H6! 'H3//

=|<KIJ

1 2 3'L<=M 1 2 3'L<;M 1 2 3'L<QM 1 2 3'L<NM H80"- 'P H80"- 'J

=|=<<K

1 2 3'L<QM H80"- 'P H80"- 'J

%109:33;  
<=>??>@<??

00000000000000000000000000000000 (AB"  
7)6+. )33/. 0)\*0#-\$-5:6-+:)6;

!"#\$%#&\$\$ &'()\*+,-.../0123,4'5'(+2,6,7,8,9':2'' ; <=51>=+!?>,@)>' ,%! \$\$ %\$

7?5A1\*1 3,) (1>: ,+0' ,! "#\$%#&' , (?+B=2' ,3' C' \*?A' 3,DE,, ()\*+, -. /01/2/3)45/6+0' /-50=+,  
7# ' #8fG=2' ' H(0=, I 0=C=>f, 6=0+=5=, J =>301, K>1C' 2(1+E, L?+=E=5M



! " # \$ % ' & ' " ( ) # \* & + ( \* , - . / \* \$ 0 & 1 2 \$ \$ " 0 " %

! " # \$ % ' ( ) " \* + , - . ' / " 0 " # & " - ' 1 ' 2 ' 3 ' 4 " 5 - " " " 6 7 8 0 , 9 8 & , ( 9 ' : \$ 9 " " ; < = =

-----  
/! 66'A3! 3G3A3'@C! C'>A/\*>\*C\*6'DE'/2>6A26'3A4'\*62BADFD@G'AD! \*B'  
H3! C!  
-----

1 2 3

/61 6/\*6! 'H3//

! " ! ! # ! % , + \$ (	! " ! ! # ) % , ) # (	! " ! ! # + % & " " (	! " ! ! # & % & " * (
! " ! ! # , % , & & (	! " ! ! # ' % , ! * (	! " ! ! # \$ % , , & (	! " ! ! # " % & ' ) (
! " ! ! ! # % , & # (	! " ! ! ! ! % & & ! (	! " ! ! ! + % & * " (	! " ! ! ! & % , & ' (
! " ! ! ! , % , & ' (	! " ! ! ! ' % & + \$ (	! " ! ! ! " % , " " (	! " ! ! ! * % , ) \$ (
! " ! ! ! ) # % & ' ) (	! " ! ! ! ! % & & & (	! " ! ! ! + % & ) * (	! " ! ! ! , % & " " (
! " ! ! ! ) ' % & ) & (	! " ! ! ! ) \$ % , ) " (	! " ! ! ! ) " % , # + (	

-----  
p6'A3! 3G3A3'@C! C'>A/\*>\*C\*6'DE'/2>6A26'3A4'\*62BADFD@G'AD! \*B'H3!  
-----

1 2 3

H3H6! 'H3//

=   = = < K					
1 2 3 ' L < ; M	1 2 3 ' L < L M	1 2 3 ' L < Q M	1 2 3 ' L < N M	H 8 0 " - ' P	H 8 0 " - ' J
=   = = = J					
1 2 3 ' L < Q M	1 2 3 ' L < N M	H 8 0 " - ' P	H 8 0 " - ' J		
=   = = ; ;					
1 2 3 ' L < Q M	H 8 0 " - ' P	H 8 0 " - ' J			
=   = = ; Q					
1 2 3 ' L < = M	1 2 3 ' L < L M	1 2 3 ' L < Q M	1 2 3 ' L < N M	H 8 0 " - ' P	H 8 0 " - ' J

% 1 0 9 : 3 3 ;  
< = > ? ? > @ < ? ?

000000000000000000000000000000 ( A B "  
7 ) 6 + . ) 3 3 / . 0 ) \* 0 # \$ - 5 : 6 - + : ) 6 ;

-----  
! " # \$ % ! \$ \$ & ' ( ) \* + , - . , , / 0 1 2 3 , 4 ' 5 ' ( + ' 2 , 6 , 7 , 8 , 9 ' : 2 ' ' , ; < = 5 1 > = + 1 ? > , @ ) > ' , % ! \$ \$ % %

-----  
7 ? 5 A 1 \* 3 , ) ( 1 > : , + 0 ' , ! " # \$ % # & ' , ( ? . + B = 2 ' , 3 ' C ' \* ? A ' 3 , D E , , ( ) \* + , - . / 0 1 / 2 / 3 ) 4 5 / 6 + 0 ' / - 5 0 = + ,  
7 # ' # 8 f G = 2 ' ' H ( 0 = , I 0 = C = > f , 6 = 0 = + 5 = , J = > 3 0 1 , K > 1 C ' 2 ( 1 + E , L ? + = E = 5 M  
-----



! "\$%"&' " ()#\*&+ (\*, -. /\*\$0&1 2\$\$" 0" %

! "\$%&' ()"\*+,-. /"O"#&"-1 '2'3'4"5-""6780,98&, (9':\$9""; <==

%109:33;  
<=>??>@<??

00000000000000000000000000000000 (AB"  
7)6+.)33/. 0)\*0#-\$-5:6-+:)6;

---

! "\$\$%#! \$\$	&' ()*+,- ., /0123,4' 5' (+2,6,7,8,9': 2' ', ; <=51>=+1?>,@)>' ,%! \$\$	%N
7?5A1*! 3,)(1>:,+0' ,! "\$\$%#&' ,(?.+B=2',3' C' *?A' 3,DE,, ()*+,-. /01/2/3)45/6+0' /-50=+, 7# ' #8fG=2' ' H(0=,I 0=C=>f,6=0=+5=,J =>301,K>1C' 2(1+E,L?+=E=5M		



! "#\$%"&' " ()#\*&+ (\*, -./\*\$0&1 2\$\$" 0" %  
 ! "#\$%&'()\*+,-./"0"#&"-1'2'3'4"5-"6"/\$66%"0"7&8-9': ;80,78&, (7'<\$7"'=>??

! 3<@A'B3C4D@'C/\*@\*E\*: 'FG'\*: 2DCFHFBI 'A: HFFF!

1 2 3

/: 1 : /\*: ! 'J3//

KL>MN?0PQPR

KL>MN=0PQ?R

KL>MNP0P?SR

KL>MNQ0PPQR

KL>MNL0NMQR

J3J: ! 'J3//

C,%

%2\*: ;44<  
 =>?@?A=@@

+BC"  
 8, 7.1, 44)1\*, -\*#\$06;70.;, 7<

"#\$%&'()\* (+, -./0#1#\$#. (2(3(4(5#6.##(0%77&#1#8'9.: (<91-89'=-8(>%8#(?@!!

!

3=17-&#/(%\$-86(', #(! "#\$%#&' (\$=\*A9.#(/#B#&=7#/ (C: (' ()\*+, -./01)\*2)3)4, 56)7.\*' )06\*9'(8#'#9)E9.##F\$, 9(G, 9B98)(29, 9'19(H98/, -(I 8-B#.\$-': (J='9: 91K



! "#\$%"&' " ()#\*&+ (\*, -. /\*\$0&1 2\$\$" 0" %  
 ! "#\$%&'()\*"+,-. /"O"#&"-1 '2'3'4"5-"""/\$66%"O"7&8-9': ;8O,78&, (7'<\$7"'=>??

1 3! @3C'2FHH: B: 'TE\*\*@T3C31 "J: :! 1 34:  
1 23

/: 1 : /\*: ! 'J3//

KL>N==OPNLR	KL>N=NOP=QR	KL>N=QONLSR	KL>N=SOP=KR	KL>N=MOPSNR
KL>N=KONKQR	KL>NN?OP>=R	KL>NN=OPSPR		

-----  
1 3! @3C'2FHH: B: 'TE\*\*@T3C31 "J: :! 1 34:

J3J: ! 'J3//

KL>N=?'  
 1 23'N>?U 1 23'N>QU

KL>N=L'  
 1 23'N>=U

%2\*: ;4<  
 =>?@@?A=@@

+BC"  
 8, 7.1, 44)1\*, -\*#06;70.;, 7<

"#\$%&'()\*"+,-./0#1#\$#. (2(3(4(5#6.##(0%77&#1#8'9.:(: <91-89'=-8(>%8#(?@!! ?

3=17-&#/(%\$-86(', #(! "#\$%#&' (\$=\*A9.#(/#B#&=7#/ (C: (' ()\*+, -. /01)\*2)3)4, 56)7.\*' )06\*9'(8#'#9)E9.##F\$, 9(G, 9B98)(29, 9'19(H98/, -(I 8-B#.\$-': (J='9: 91K



! "#\$%"&' " ()#\*&+ (\*, -. /\*\$0&1 2\$\$" 0" %

! "#\$%&'()\*+,-./"0#&"-1'2'3'4"5-"""/\$66%"0"7&8-9': ;80,78&, (7'<\$7"'=>??

1 ': /"2FHH: B: '1 3! 31 J3HHI 'A3VD3TEH31 '3HEA3

1 23

/: 1 : /\*: ! 'J3//

KL>M>?0P?NR	KL>M>N0P=>R	KL>M>L0PPQR	KL>M>S0P=NR	KL>M>K0P=PR
KL>M?>0PN?R	KL>M??0P>PR			

1 ': /"2FHH: B: '1 3! 31 J3HHI 'A3VD3TEH31 '3HEA3

J3J: ! 'J3//

KL>M>Q'

1 23'N>?U 1 23'N>=U 1 23'N>NU 1 23'N>QU

KL>M>M'

1 23'N>?U 1 23'N>=U 1 23'N>PU

%2\*: ;44<  
=>?@@?A=@@

+BC"  
8, 7.1, 44)1\*, -\*#\$06;70.;, 7<

"#\$%&'()\*+,-./0#1#\$#. (2(3(4(5#6.##(0%77&#1#8'9.:(: <91-89'=-8(>%8#(?@!!

L

3=17-&#/(%\$-86(', #(! "#\$%#&' (\$=\*A9.#(/#B#&=7#/ (C: (' ()\*+, -. /01)\*2)3)4, 56)7.\*' )06\*9'(8#'#9)E9.##F\$, 9(G, 9B98)(29, 9'19(H98/, -(I 8-B#.\$-': (J='9: 91K



! "#\$%"&' " ()#\*&+ (\*, -./\*\$0&1 2\$\$" 0" %  
 ! "#\$%&'()\*"+,-./"0"#&"-1'2'3'4"5-"""/\$66%"0"7&8-9':;80,78&,(7'<\$7"'=>??

C@! 1 3H3'2FHH: B: "1 EA3\*\*EJEVD3  
1 23

/: 1 : /\*: ! 'J3//

KL>NK?0PN>R	KL>NK=OPPMR	KL>NKP0PPNR	KL>NKQ0PQPR	KL>NKLOP=LR
KL>NKS0PPNR	KL>NKMONKSR	KL>NKKONMPR	KL>P>>0PNQR	KL>P>N0PPKR
KL>P>Q0P?QR	KL>P>LOP=MR	KL>P>M0P=SR	KL>P>K0PP?R	

C@! 1 3H3'2FHH: B: "1 EA3\*\*EJEVD3

J3J: ! 'J3//

KL>NKN'  
 1 23'N>PU

KL>P>?'  
 1 23'N>PU

KL>P>='  
 1 23'N>NU

KL>P>S'  
 1 23'N>PU

%2\*: ;44<  
 =>?@?A=@@

+BC"  
 8, 7.1, 44)1\*, -\*#\$06;70.;, 7<

"#\$%&'()\*"+,-./0#1#\$#. (2(3(4(5#6.##(0%77&#1#8'9.:(; <91-89'=-8(>%8#(?@!!

M

3=17-#&#/(%\$-86(', #(! "#\$%#&' (\$=\*A9.#(/#B#&=7#/ (C: (' ()\*+, -./01)\*2)3)4, 56)7.\*' )06\*9'(8#'#9)E9.##F\$, 9(G, 9B98)(29, 9'19(H98/, -(I 8-B#.\$-': (J='9: 91K



! "#\$%"&' " ()#\*&+ (\*, -. /\*\$0&1 2\$\$" 0" %  
 ! "#\$%&'()\*"+,-. /"O"#&"-1 '2'3'4"5-"""/\$66%"O"7&8-9': ;8O,78&, (7'<\$7"'=>??

E'2'2FHH: B: '3HEA3  
1 23

/: 1 : /\*: ! 'J3//

KL>>NNOP>LR      KL>>NQOP?SR      KL>>P?0NLQR

E'2'2FHH: B: '3HEA3

J3J: ! 'J3//

KL>>NL'  
 1 23'N>?U

KL>>NS'  
 1 23'N>?U    1 23'N>=U

KL>>NM'  
 1 23'N>?U    1 23'N>=U    1 23'N>NU

%2\*: ;4<  
 =>?@@?A=@@

+BC"  
 8, 7.1, 44)1\*, -\*#\$06;70.;, 7<

"#\$%&'()\*+(, -./0#1#\$#. (2(3(4(5#6.##(0%77&#1#8'9.: (<91-89'=-8(>%8#(?@!!

N

3=17-&#/(%\$-86(', #(! "#\$%#&' (\$=\*A9.#(/#B#&=7#/ (C: (' ()\*+, -. /01)\*2)3)4, 56)7.\*' )06\*9'(8#'#9)E9.##F\$, 9(G, 9B98)(29, 9'19(H98/, -(I 8-B#.\$-': (J='9: 91K





! "#\$%" &' " ()#\*&+ (\*, -. /\*\$0&1 2\$\$" 0" %

! "#\$%&'()\*+,-./"0#&"-1'2'3'4"5-"""/\$66%"0"7&8-9':;80,78&(7'<\$7"'=>??

1 3! '3\*D3C3/@E/': CB@C: :! @CB'2FHH: B: 'TF \*D31 3CB3H31  
1 23

/: 1 : /\*: ! 'J3//

KL>=L=OPNKR

KL>=LLOP?=R

J3J: ! 'J3//

C,%

%2\*: ;4<  
=>?@?A=@@

+Bc"  
8, 7.1, 44)1\*, -\*#\$06;70.;, 7<

"#\$%&'()\* (+, -. /0#1#\$#. (2(3(4(5#6.##(0%77&#1#8'9.: (: <91-89'=-8(>%8#(?@!!

0

3=17-&#/(%\$-86(', #(! "#\$%#&' (\$=\*A9.#(/#B#&=7#/ (C: (' )\*+, -. /01)\*2)3)4, 56)7.\*' )06\*9'(8#'#9)E9.##F\$, 9(G, 9B98)(29, 9'19(H98/, -(I 8-B#.\$-': (J='9: 91K



! "#\$%" &' " ()#\*&+ (\*, -. /\*\$0&1 2\$\$" 0" %  
 ! "#\$%&'()\*+,-./"0"#&"-1'2'3'4"5-"""/\$66%"0"7&8-9':;80,78&(7'<\$7"'=>??

! 3<3B@! @'2FHH: B: 'FG'/F2@3H'/2@: C2: /WT3H31 3//: !!  
1 2 3

/: 1 : /\*: ! 'J3//

KL>K>=ONMNR      KL>K>NONKNR      KL>K>POP>>R      KL>K>QONMLR      KL>K>MONK>R  
 KL>K>KOP>SR

---

J3J: ! 'J3//

C, %

%2\*: ;44<  
 =>?@@?A=@@

+Bc"  
 8, 7.1, 44)1\*, -\*#\$06;70.;, 7<

"#\$%&'()\*+,-./0#1#\$#. (2(3(4(5#6.##(0%77&#1#8'9.:(: <91-89'=-8(>%8#(?@!!

P

3=17-&#/(%\$-86(', #(! "#\$%#&' (\$=\*A9.#(/#B#&=7#/ (C: (' ()\*+, -. /01)\*2)3)4, 56)7.\*' )06\*9'(8#'#9)E9.##F\$, 9(G, 9B98)(29, 9'19(H98/, -(I 8-B#.\$-': (J='9: 91K



! "#\$%"&' " ()#\*&+ (\*, -./\*\$0&1 2\$\$" 0" %

! "#\$%&'()\*"+,-./"0"#&"-1'2'3'4"5-"""/\$66%"0"7&8-9': ;80,78&, (7'<\$7"'=>??

.....  
/'2'1'/'/2DFFH'FG'\*: 2DCFHFBI '3C4'1 3C3B: 1 : C\*W1 E\*\*F1 W3HEA3  
1 23

/: 1 : /\*: ! 'J3//

KL>PLNOP=PR      KL>PLPOPQ?R      KL>PLQOPLMR

---

-----  
-----/'2'1'/'/2DFFH'FG'\*: 2DCFHFBI '3C4'1 3C3B: 1 : C\*W1 E\*\*F1 W3HEA-----

J3J: ! 'J3//

KL>PL='

1 23'N>?U    1 23'N>=U    1 23'N>QU

%2\*: ;44<  
=>?@@?A=@@

+BC"  
8, 7.1, 44)1\*, -\*#\$06;70.;, 7<

.....  
"#\$%&'()\*+(, -./0#1#\$#. (2(3(4(5#6.##(0%77&#1#8'9.: (: <91-89'=-8(>%8#(?@!!

0

-----  
3=17-&#/(%\$-86(', #(! "#\$%#&' (\$=\*A9.#(/#B#&=7#/(C: (' ()\*+, -./01)\*2)3)4, 56)7.\*' )06\*9'(8#'#9)E9.##F\$, 9(G, 9B98)(29, 9'19(H98/, -(I 8-B#.\$-': (J='9: 91K  
-----



! "#\$%"&' " ()#\*&+ (\*, -. /\*\$0&1 2\$\$" 0" %

! "#\$%&'()\*"+,-./"0"#&"-1'2'3'4"5-"""/\$66%"0"7&8-9':;80,78&(7'<\$7"'=>??

G: 4: ! 3H'C/\*\*E\*: 'FG'/2@: C2: '3C4'\*: 2DCFHFBI '1 FFT3CCE! '3CB31 3H@  
1 2 3

/: 1 : /\*: ! 'J3//

KL>>L?ONKLR

KL>>LPOP=SR

KL>>LQOP?LR

KL>>LKOP?=R

KL>>S=OP>QR

%2\*: ;4<  
=>?@@?A=@@

+BC"  
8, 7.1, 44)1\*, -\*#\$06;70.;, 7<

"#\$%&'()\*+(, -./0#1#\$#. (2(3(4(5#6.##(0%77&#1#8'9.:(< <91-89'=-8(>%8#(?@!!

R

3=17-&#/(%\$-86(', #(! "#\$%#&' (\$=\*A9.#(/#B#&=7#/(C: (' ()\*+, -. /01)\*2)3)4, 56)7.\*' )06\*9'(8#'#9)E9.##F\$, 9(G, 9B98)(29, 9'19(H98/, -(I 8-B#.\$-': (J='9: 91K



! "#\$%"&' " ()#\*&+ (\*, -./\*\$0&1 2\$\$" 0" %  
 ! "#\$%&'()\*"+,-./"0"#&"-1'2'3'4"5-"6"/\$66%"0"7&8-9':;80,78&(7'<\$7"'=>??

G: 4: ! 3H'@C/\*@\*E\*: 'FG'/2@: C2: '3C4'\*: 2DCFHFBI '1 FFT3CCE! '3CB3'

J3J: ! 'J3//

KL>>L='

1 23'N>NU 1 23'N>PU

KL>>LN'

1 23'N>=U 1 23'N>QU

KL>>LM'

1 23'N>=U

KL>>S>'

1 23'N>NU 1 23'N>QU

KL>>S?'

1 23'N>QU

KL>>SN'

1 23'N>=U 1 23'N>QU

%2\*: ;44<  
 =>?@@?A=@@

+BC"  
 8, 7.1, 44)1\*, -\*#\$06;70.;, 7<

"#\$%&'()\*"+,-./0#1#\$#. (2(3(4(5#6.##(0%77&#1#8'9.:(< 91-89'=-8(>%8#(?@!! !@

3=17-#&#/(%\$-86(', #(! "#\$%#&' (\$=\*A9.#(/#B#&=7#/(C: (' ()\*+, -./01)\*2)3)4, 56)7.\*' )06\*9'(8#'#9)E9.##F\$, 9(G, 9B98)(29, 9'19(H98/, -(I 8-B#.\$-': (J='9: 91K



! "#\$%"&' " ()#\*&+ (\*, -./\*\$0&1 2\$\$" 0" %

! "#\$%&'()\*"+,-./"0"#&"-1'2'3'4"5-"""/\$66%"0"7&8-9':;80,78&(7'<\$7"'=>??

!3D@3'2FHH: B: 'FG': CB@C: : ! @CB'3C4"\*: 2DCFHFBI '1 EH3AFF! '1 FFA3\*\*EJEVD  
1 23

/: 1 : /\*: ! 'J3//

KL>?N?0Q=KR      KL>?NNOP>LR      KL>?NP0PP?R

| @H3D@3'2FHH: B: 'FG': CB@C: : ! @CB'3C4"\*: 2DCFHFBI '1 EH3AFF! '1 FFA3\*? |

J3J: ! 'J3//

KL>?N='

1 23'N>=U    1 23'N>PU

KL>?NQ'

1 23'N>?U    1 23'N>=U    1 23'N>NU    1 23'N>PU    1 23'N>QU

KL>?NS'

1 23'N>NU    1 23'N>PU    1 23'N>QU

%2\*: ;4<  
=>?@@?A=@@

+BC"  
8, 7.1, 44)1\*, -\*#\$06;70.;, 7<

"#\$%&'()\*+,-./0#1#\$#. (2(3(4(5#6.##(0%77&#1#8'9.:(; <91-89'=-8(>%8#(?@!!

!!

3=17-&#/(%\$-86(', #(! "#\$%#&' (\$=\*A9.#(/#B#&=7#/(C: (' ()\*+, -./01)\*2)3)4, 56)7.\*' )06\*9'(8#'#9)E9.##F\$, 9(G, 9B98)(29, 9'19(H98/, -(I 8-B#.\$-': (J='9: 91K



! "#\$%"&' " ()#\*&+ (\*, -./\*\$0&1 2\$\$" 0" %

! "#\$%&'()\*"+,-./"0"#&"-1'2'3'4"5-"""/\$66%"0"7&8-9':;80,78&(7'<\$7"'=>??

/21 /'/2DFFH'FG': CBB'Y'\*: 2DCFHFBI 'T3! ETE\*\*I

1 2 3

/: 1 : /\*: ! 'J3//

KL>LP?0P>QR	KL>LPN0P>LR	KL>LPP0P?KR	KL>LPLONMNR	KL>LPS0P?LR
KL>LPMONK?R	KL>LPKONKSR	KL>LQ>0P=?R	KL>LQ?0PP>R	KL>LQ00P?=-R
KL>LQL0P=SR				

%2\*: ;44<  
=>?@?A=@@

+BC"  
8, 7.1, 44)1\*, -\*#\$06;70.;, 7<

"#\$%&'()\*+(, -./0#1#\$'#.(2(3(4(5#6.##(0%77&#1#8'9.:(; <91-89'=-8(>%8#(?@!!

!?

3=17-&#/(%\$-86(', #(! "#\$%#&' (\$=\*A9.#(/#B#&=7#/ (C: (' ()\*+, -./01)\*2)3)4, 56)7.\*' )06\*9'(

8#' #9)E9.##F\$, 9(G, 9B98)(29, 9'19(H98/, -(I 8-B#.\$-': (J='9: 91K



! "#\$%"&' " ()#\*&+ (\*, -. /\*\$0&1 2\$\$" 0" %  
 ! "#\$%&'()\*"+, -. /"O"#&"-1 '2'3'4"5-"""/\$66%"O"7&8-9': ;8O,78&, (7'<\$7"'=>??

/21 /' /2DFFH'FG': CBBX'Y'\*: 2DCFHFBI 'T3! ETE\*\*I

J3J: ! 'J3//

KL>LP='  
 1 23'N>PU

KL>LPQ'  
 1 23'N>PU

KL>LQ='  
 1 23'N>=U 1 23'N>PU

KL>LQN'  
 1 23'N>=U 1 23'N>PU

KL>LQP'  
 1 23'N>NU

%2\*: ;44<  
 =>?@@?A=@@

+BC"  
 8, 7.1, 44)1\*, -\*#\$06;70.;, 7<

"#\$%&'()\*+(, -. /0#1#\$#. (2(3(4(5#6.##(0%77&#1#8'9.: (<91-89'=-8(>%8#(?@!!

!L

3=17-&#/(%\$-86(', #(! "#\$%#&' (\$=\*A9.#(/#B#&=7#/(C: (' )\*+, -. /01)\*2)3)4, 56)7.\*' )06\*9'(8#'#9)E9.##F\$, 9(G, 9B98)(29, 9'19(H98/, -(I 8-B#.\$-': (J='9: 91K





! "#\$%"&' " ()#\*&+ (\*, -. /\*\$0&1 2\$\$" 0" %

! "#\$%&'()\*"+,-./"0"#&"-1'2'3'4"5-"""/\$66%"0"7&8-9':;80,78&(7'<\$7"'=>??

/3@C\*B@\*/'2FHH: B: 'FG': CB@C: :! @CB'J3\*D31 E\*\*F1 'T\*1  
1 23

/: 1 : /\*: ! 'J3//

KL>Q==0P?QR      KL>Q=POPL?R      KL>Q=QOPLPR      KL>Q=L0PNMR

|-----| /3@C\*B@\*/'2FHH: B: 'FG': CB@C: :! @CB'J3\*D31 E\*\*F1 'T\*1 |-----|

J3J: ! 'J3//

KL>Q=?'

1 23'N>=U    1 23'N>PU    1 23'N>QU

KL>Q=N'

1 23'N>=U

%2\*: ;44<  
=>?@?A=@@

+BC"  
8, 7.1, 44)1\*, -\*#\$06;70.;, 7<

"#\$%&'()\*"+,-./0#1#\$#. (2(3(4(5#6.##(0%77&#1#8'9.:(<91-89'=-8(>%8#(?@!!

!M

3=17-&#/(%\$-86(', #(! "#\$%#&' (\$=\*A9.#(/#B#&=7#/(C: (' ()\*+, -. /01)\*2)3)4, 56)7.\*' )06\*9'(8#'#9)E9.##F\$, 9(G, 9B98)(29, 9'19(H98/, -(I 8-B#.\$-': (J='9: 91K



! "#\$%"&' " ()#\*&+ (\*, -. /\*\$0&1 2\$\$" 0" %

! "#\$%&'()\*+,-. /"O"#&"-1 '2'3'4"5-"""/\$66%"O"7&8-9': ;8O,78&, (7'<\$7"'=>??

T! @/\*E'<I F\*D@'2FHH: B: 'FG'1 3C3B: 1 : C\*'3C4'\*: 2DCFHFBI '2D: \*D@JEVD3  
1 23

/: 1 : /\*: ! 'J3//

KS>?NKOP=LR	KS>?P>OPL>R	KS>?P?OPPLR	KS>?P=OPNQR	KS>?PNOP=LR
KS>?PPOPNLR	KS>?PLOP=LR	KS>?PSOP=KR	KS>?Q=OP>NR	

T! @/\*E'<I F\*D@'2FHH: B: 'FG'1 3C3B: 1 : C\*'3C4'\*: 2DCFHFBI '2D: \*D@JE

J3J: ! 'J3//

KS>?PQ'

1 23'N>NU 1 23'N>PU 1 23'N>QU

KS>?PM'

1 23'N>NU 1 23'N>PU

KS>?PK'

1 23'N>NU

%2\*: ;4<  
=>?@?A=@@

+BC"  
8, 7.1, 44)1\*, -\*#06;70.;, 7<

"#\$%&'()\*+,-./0#1#\$#. (2(3(4(5#6.##(0%77&#1#8'9.:(< <91-89'=-8(>%8#(?@!!

!N

3=17-&#/(%\$-86(', #(! "#\$%#&' (\$=\*A9.#(/#B#&=7#/ (C: (' ()\*+, -. /01)\*2)3)4, 56)7.\*' )06\*9'(8#'#9)E9.##F\$, 9(G, 9B98)(29, 9'19(H98/, -(I 8-B#.\$-': (J='9: 91K



! "#\$%"&' " ()#\*&+ (\*, -. /\*\$0&1 2\$\$" 0" %

! "#\$%&'()\*"+,-. /"O"#&"-1 '2'3'4"5-"""/\$66%"O"7&8-9': ;8O,78&, (7'<\$7"'=>??

4: 'J3EH'@C/\*@\*E\*: 'FG'/2@: C2: Y\*: 2DCFHFBI '3CB31 3HI  
1 23

/: 1 : /\*: ! 'J3//

KL>>>?0PPNR

KL>>>=0PS>R

KL>>>N0P??R

KL>>>P0PLPR

J3J: ! 'J3//

C, %

%2\*: ;44<  
=>?@?A=@@

+Bc"  
8, 7.1, 44)1\*, -\*#\$06;70.;, 7<

"#\$%&'()\* (+, -. /0#1#\$#. (2(3(4(5#6.##(0%77&#1#8'9.: (: <91-89'=-8(>%8#(?@!!

!0

3=17-&#/(%\$-86(', #(! "#\$%#&' (\$=\*A9.#(/#B#&=7#/(C: (' )\*+, -. /01)\*2)3)4, 56)7.\*' )06\*9'(8# ' #9)E9.##F\$, 9(G, 9B98)(29, 9'19(H98/, -(I 8-B#.\$-': (J='9: 91K



! "#\$%"&' " ()#\*&+ (\*, -./\*\$0&1 2\$\$" 0" %

! "#\$%&'()\*"+,-./"0"#&"-'1'2'3'4"5-"6"/\$66%"0"7&8-9': ;80,78&, (7'<\$7"'=>??

1 3! '3\*D3C3/@FE/'2FHH: B: 'GF! '34A3C2: 4'/\*E4@: /\*D@! EA3HH3  
1 23

/: 1 : /\*: ! 'J3//

KL>?K?0P=MR	KL>?KNOP=>R	KL>?KP0PN>R	KL>?KQ0P?MR	KL>?KM0PPMR
KL>?KK0P>SR	KL>=>>0P??R	KL>=>?0PQLR	KL>=>=0NKLR	KL>=>NOP?QR

1 3! '3\*D3C3/@FE/'2FHH: B: 'GF! '34A3C2: 4'/\*E4@: /\*D@! EA3HH3

J3J: ! 'J3//

KL>?K='  
1 23'N>NU    1 23'N>PU    1 23'N>QU

KL>?KL'  
1 23'N>PU

KL>?KS'  
1 23'N>NU    1 23'N>PU    1 23'N>QU

%2\*: ;4<  
=>?@@?A=@@

+BC"  
8, 7.1, 44)1\*, -\*#\$06;70.;, 7<

"#\$%&'()\*"+,-./0#1#\$#. (2(3(4(5#6.##(0%77&#1#8'9.:(: <91-89'=-8(>%8#(?@!!    !P

3=17-&#/(%\$-86(', #(! "#\$%#&' (\$=\*A9.#(/#B#&=7#/ (C: (' ()\*+, -./01)\*2)3)4, 56)7.\*' )06\*9'(8#'#9)E9.##F\$, 9(G, 9B98)(29, 9'19(H98/, -(I 8-B#.\$-': (J='9: 91K



! "#\$%"&' " ()#\*&+ (\*, -. /\*\$0&1 2\$\$" 0" %

! "#\$%&'()\*"+,-./"0"#&"-1'2'3'4"5-"""/\$66%"0"7&8-9': ;80,78&, (7'<\$7"'=>??

/3C\*D@B@! @'2FHH: B: 'FG'2F 1 JE\*: ! '/2@: C2: /'A3VD@\*D3H3  
1 23

/: 1 : /\*: ! 'J3//

KL>QM=0PQ?R      KL>QM00PN=R      KL>QML0PNSR

|-----| /3C\*D@B@! @'2FHH: B: 'FG'2F 1 JE\*: ! '/2@: C2: /'A3VD@\*D3H3 |-----|

J3J: ! 'J3//

KL>QMP'  
1 23'N>?U

KL>QMS'  
1 23'N>?U    1 23'N>=U    1 23'N>QU

%2\*: ;4<  
=>?@?A=@@

+BC"  
8, 7.1, 44)1\*, -\*#\$06;70.;, 7<

"#\$%&'()\* (+, -./0#1#\$#. (2(3(4(5#6.##(0%77&#1#8'9.:(; <91-89'=-8(>%8#(?@!!      !Q

3=17-&#/(%\$-86(', #(! "#\$%#&' (\$=\*A9.#(/#B#&=7#/(C: (' )\*+, -. /01)\*2)3)4, 56)7.\*' )06\*9'(8#'#9)E9.##F\$, 9(G, 9B98)(29, 9'19(H98/, -(I 8-B#.\$-': (J='9: 91K



! "#\$%" &' " ()#\*&+ (\*, -. /\*\$0&1 2\$\$" 0" %

! "#\$%&'()\*"+,-./"0"#&"-1'2'3'4"5-"""/\$66%"0"7&8-9':;80,78&(7'<\$7"'=>??

./! : : 'C3! 3I 3C3'BE! E!@C/\*@\*E\*: 'FG'/2@: C2: '3C4'\*: 2DCFHFBI 'CF! \*D'J3! E!  
1 23

/: 1 : /\*: ! 'J3//

KL>S?NOP>MR      KL>S?SOPPQR      KL>S?KOP=>R      KL>S=>OP>QR

|-----| /! : : 'C3! 3I 3C3'BE! E!@C/\*@\*E\*: 'FG'/2@: C2: '3C4'\*: 2DCFHFBI 'CF! \*D' |-----|

J3J: ! 'J3//

KL>S??'  
1 23'N>NU

KL>S?P'  
1 23'N>QU

KL>S?Q'  
1 23'N>QU

KL>S=='  
1 23'N>NU

%2\*: ;44<  
=>?@?A=@@

+BC"  
8, 7.1, 44)1\*, -\*#\$06;70.;, 7<

"#\$%&'()\* (+, -./0#1#\$#. (2(3(4(5#6.##(0%77&#1#8'9.:(: <91-89'=-8(>%8#(?@!!      !R

3=17-&#/(%\$-86(', #(! "#\$%#&' (\$=\*A9.#(/#B#&=7#/(C: (' ()\*+, -. /01)\*2)3)4, 56)7.\*' )06\*9'(8#'#9)E9.##F\$, 9(G, 9B98)(29, 9'19(H98/, -(I 8-B#.\$-': (J='9: 91K



! "#\$%"&' " ()#\*&+ (\*, -./\*\$0&1 2\$\$" 0" %

! "#\$%&'()\*"+,-./"0"#&"-1'2'3'4"5-"""/\$66%"0"7&8-9':;80,78&(7'<\$7"'=>??

%2\*: ;4<  
=>?@?A=@@

+Bc"  
8, 7.1, 44)1\*, -\*#\$06;70.;, 7<

"#\$%&'()\*+,-./0#1#\$#. (2(3(4(5#6.##(0%77&#1#8'9.:(<91-89'=-8(>%8#(?@!!

?@

3=17-&#/(%\$-86(', #(! "#\$%#&' (\$=\*A9.#(/#B#&=7#/ (C: (' )\*+, -./01)\*2)3)4, 56)7.\*' )06\*9'(8#'#9)E9.##F\$, 9(G, 9B98)(29, 9'19(H98/, -(I 8-B#.\$-': (J='9: 91K