!"

H" HN>DEHF&C&<GKGC<HM&KFEDJ&

D" HNO;=IG&C>D&KFCF=KF=HCIIJ&C>CIJYG&FMG&DCFC&W<NO&C&<GKGC<HM&;<NZGHF&

G" D=KKGO=>CFG&FMG&W=>D=>?K&W<NO&C&<GKGC<HM&;<NZGHF&=>&QNFM&LG<QCI&C>D&V<=FFG>&WN<O&

+%%#%%*#/,&67&:6+P%X6]^#9,!2#%&

3NE<&=>KF<EHFN<&V=II&CKKGKK&JNE<&CHM=GLGOG>F&NW&GCHM&NQZGHF=LG&=>&FMG&WNIINV=>?&VCJKB&

&

:NCIKX6QZGHF=LGK&	!>KF<EHF=N>CI& +HF=L=FJ&	+KKGKKOG>F&
C&_&G&	4=KHEKK=N>&V=FM&FMGK=K&HNOO=FFGG& HMC=<XOGOQG<KU&HN>DEHF=>?&FMG&<GKGC<HM& ;<NZGHF&	6>_?N=>?&WGGDQCH\&W<NO& FMGK=K&HNOO=FFGG& HMC=<XOGOQG<KU&DGWG>KG&NW& ;<NZGHF&QGWN<G&FMG&,MGK=K& 9NOO=FFGG&

&

2!!!" 961-%#&-#`1!-#*#/,%X+%%!:/*#/,%B&

&

,MGK=KB&!>&HN>KEIFCF=N>&V=FM&C&,MGK=K&9NOO=FFGG&C>D&CDL=KN<U&FMG&KFEDG>F&V=II&
HN>HG;FECI=YGU&DGK=?>U&HN>DEHFU&C>D&D=KKGO=>CFG&C>&N<=?=>CI&<GKGC<HM&;<NZGHF&<GICFGD&FN&
G[G<H=KG&C>D&MGCIFM&KH=G>HG"&,M=K&;<NZGHF&V=II&QG&;<GKG>FGD&QGWN<G&FMG&,MGK=K&9NOO=FFGG"&

&

A" ,MG&KFEDG>F&V=II&W=<KF&=DG>F=WJU&V=FM&CKK=KFC>HG&W<NO&FMG&?<CDECFG&CDL=KN<&=W&>GGDGDU&C&
?<CDECFG&WCHEIFJ&OGOQG<&VMN&MCK&G[;G<F=KG&=>&FMG&C<GC&FMCF&FMG&KFEDG>F&=K&>FG<GKFGD"&

@" ,MG&KFEDG>F&V=II&VN<\&V=FM&FMG&?<CDECFG&WCHEIFJ&OGOQG<&FN&KGIGHF&FVN&CDD=F=N>CI&?<CDECFG&
WCHEIFJ&OGOQG<KU&=>=F=CFG&C&;<GI=O=>C<J&OGGF=>?&V=FM&FMNKG&FM<GG&WCHEIFJ&OGOQG<K&FN&
KGIGHF&N>G&NW&FMG&FM<GG&WCHEIFJ&FN&KG<LG&CK&M=K&N<&MG<&,MGK=K&9NOO=FFGG&9MC=<U&C>D&MCLG&FMG&
NFMG<&FVN&KG<LG&CK&HNOO=FFGG&OGOQG<K"&,MG&HNOO=FFGG&HMC=<&C>D&CF&IGCKF&N>G&HNOO=FFGG&
OGOQG<&OEKF&QG&+#$%&WCHEIFJ"&,MG&KFEDG>F&OCJ&KGIGHF&C&WNE<FM&;G<KN>&VMN&=K&C>&G[;G<F&
=>&FMG&W=GIDU&QEF&>NF&C>&#%%*&?<CDECFG&WCHEIFJ&FN&KG<LG&N>&FMG&HNOO=FFGG&C>D&FM=K&WNE<FM&
;G<KN>&OEKF&KEQO=F&C&92&FN&+#$%&5<N?<CO&9NN<D=>CFN<&C>D&QG&C;;<NLGD&QJ&+#$%&
7CHEIFJ&QGWN<G&FMCF&;G<KN>&HC>&KG<LG&N>&C&FMGK=K&HNOO=FFGU&=W&C;;<NLGD&QJ&+0#$%&
?<CDECFG&WCHEIFJ&FMG>&FMG&;NFG>F=CI&HNOO=FFGG&OGOQG<&OEKF&FMG>&QG&C;;<NLGD&V=FM&
?<CDECFG&WCHEIFJ&KFCFEK&QJ&FMG&.%1&:<CDECFG&9NIIG?G"&

a" 4E<=>?&FMG&=>=F=CI&FMGK=K&HNOO=FFGG&OGGF=>?U&FMG&KFEDG>F&V=II&D=KHEKK&FMG&;NFG>F=CI&
FN;=HXKEQZGHF&WN<&M=K&N<&MG<&FMGK=K&;<NZGHF"&!>&HN>KEIFCF=N>&V=FM&FMG&FMGK=K&HNOO=FFGU&FMG&
KFEDG>F&V=II&WN<OEICFG&FMG&<GKGC<HM&DGK=?>&C>D&DGFG<O=>G&FMG&W=>CI&WN<O&NW&FMG&;<NK;GHFEK"&

b" !F&=K&G[;GHFGD&FMCF&FMG&HNOO=FFGG&HMC=<&V=II&FC\G&;<=OC<J&<GK;N>K=Q=I=FJ&=>&VN<\=>?&V=FM&
FMG&KFEDG>F&FN&OC\G&C>J&<GcE=<GD&HMC>?GK"&0MG>&C&KFEDG>FdK&FMGK=K&HNOO=FFGG&
<GHNOOG>DK&HMC>?GK&=>&FMG&;<NK;GHFEKU&OGOQG<K&NW&FMG&HNOO=FFGG&V=II&>NF&K=?>&WN<OK&
KMNV=>?&C;;<NLCI&NW&FMG&;<NK;GHFEK&E>F=I&CII&NW&FMG&HN<<GHF=N>K&MCLG&CHFECIIJ&QGG>&OCDG"

HC>D=DCFGdK&FMGK=K&=K&G[;GHFGD&FN&<GWIGHF&HE<<G>F&DGLGIN;OG>FK&<GICFGD&FN&FMG&FN;=H&NW&KFEDJ"&
5<NHGDE<GK&EKGD&=>&;E<KE=>?&FMG&HNO;IGF=N>&NW&FMG&FMGK=K&OEKF&HN>WN<O&FN&FMG&;<NHGDE<GK&

8" +9+4#*!9&!/ ,#:-!,3B&

&

#LG<J&.%1&KFEDG>F&=K&<GK;N>K=QIG&WN<&E;MNID=>?&FMG&;<NL=K=N>K&NW&FMG&%FEDG>F&9NDG&NW&9N>DEHFU&CK&;EQI=KMGD&

8!2" -#7#-#/9#%[!]P!6:-+5$3B&

&

+OG<=HC>&5KJHMNIN?=HCI&+KKNH=CF=N>&R@))(S"&*!"#$%&'(%)*+,'*"'$+)-+(./+0,/1%&'*+ *!23&.)$)4%&'$+022)&%'(%)*›+RT[FM]&GD"S"&0 CKM=>?FN>U&4"9"B&+EFMN<"&

&

]CEO?C<F>G<U&,"+"U&n&$G>KIGJU&P"4"&R@))TS"&*?)*7"&(%*4+'*7+1/'7%*4+1/2/'1&.+ %*+./'$(.+'*7+.",'*+@/1-)1,'*&/"&]NKFN>U&*+B&*H:<CV_$=II&5EQI=KM=>?"&

&

]G<?U&."#"&n&PCF=>U&-"0"&R@))fS"&A22/*(%'$2+)-+1/2/'1&.+,/(.)72+%*+./'$(.›+ @.32%&'$+/7"&'(%)*›+/B/1&%2/+2&%/*&/›+'*7+1/&1/'(%)*+Ra<D&GD"S"&5M=ICDGI;M=CB& P=;;=>HNFFU&0 =II=COK&n&0 =I\=>K"&

&

,MNOCKU&^"-"U&/GIKN>U&^".U&n&%=ILG<OC>U&%"^"&R@))eS"&C/2/'1&.+,/(.)72+%*+@.32%&'$+ '&(%=%(3"Re[FM]& GD"S"&9MCO;C=?>B&$EOC>&.=>GF=HK"&

!