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)DFXOW\ *RYHUQDQFH

&R PPLWWHHV RI WKH \$FDGHPLF 3ROLF\ &RXQFL
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 , Q V W L W X W L R Q D O \$ V V X U D Q F H V
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* RYHUQPHQW 5HODWLRQV
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385326(2) + \$ 1 ' % 22 .

7KH SXUSRNDH XQDWXQKRRN LV WR SURYRLGQH RDU BBWGRQHWKDMQ
RI LQWHUHVW WR IDFXOW\ RI ORUHKRXVH 6FKRRO RI OHGLF

\$VVRFLDWLRQ HQGRUVHG WKH GHYHORSPHQW RI D QHZ PH
RUJD~~Q~~QJ\W\WLQFOXGLQJ WKH *HRUJLD 6WDWH 0HGLFDO \$VVR
DQG WKH &DUQHJLH &RXQFLO DOVR VXSSRUWHG WKH GHYH
0RUHKRXVH &ROOHJH DFFHSWHG WKLV\H~~H~~DOXOFIDQJLHR QD\O ZD\W
LQ WKH EDVLF VFLHQFHV LQ \$SULO DV 7KH 6FKRRO RI O

7KH F KDUWHU F R D U W W X Q V Z Q V W M V H Q V E B V H G V D F M H Q R F H S U R J U D
7KRVH V W X G H Q W V D Q G W K B Q A X I E V W H T H G Q W R P V Z R H F 6 D K R / R R
0 R U H K R X V H & R O O H J H W R R W K H U P H G L F D O V F K R R O V H O V H Z
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7KH 6FKRRO RI 0HGLFLQH EHFDPH LQGHSHQGHQH QRWLRQ H 06RFUKHRK
RI 0HGLFLQH HFHLYHG DXWKRUJDWLRQ IURP WKH /LDLVRQ
p/ 678QHQHQSXDOORI`WWDVWDPH \HDU WR EHWZDUQSIO DQQLQJ IR

D Q G W K H & 5 U G V H W U O H H V Z H U H F R 7 Q I H H U L D H V Q W H Q Q R I % U F R P H Q F I H F D Q 5 H V H D U W F X K G H Q W V Z H U H B Q G R M O I O H G G I H Q W H O H V Z H U H F R Q I H U U H C

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/ H D G L Q J W K H F U H D W L R Q D Q G D G Y D Q F H P H Q W R I K H D O W K H H T X L % X L O G L Q J E U L G J H V E H W Z H H Q K H D O W K F D U H D Q G K H D C O H D G H U V

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0 R U H K R X V H 6 F K R R O R I 0 H G L F L Q R I X M K B B Q U \$ M G L R W F H Q V E L R Q R I & R P P L V V L R Q R Q & R O O H J H V W R D Z D U G G R F W R U D W H D Q G P D V R I & R O O H J H V D Q G 6 F K R R O V & R P P L V V L R Q R Q & R O O H J H V D W W H O H S K R Q H R U K M W S Z Z V D F U F R X F H R W J L R Q V D E R D F F U H G L W D W L R Q R I 0 R U H K R X V H 6 F K R R O R I 0 H G L F L Q H

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*HRUJLD WHOHSKRQH RU KW WLSW ZZZ V R E V T F R H F V M L R Q V D
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7KH \$FFUHGLWDWLRQ 5HYLHZ &IRIP P3LKXVLRQD RQ\$ VQX F DMD QRW
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3URJUDP VSRQVRUHG E\ ORUHKRXVH 6FKRRO RI OHGLFLQH

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PHHW RU H[FHHG WKH VWDQGDUGV RI WKH \$FFUHGL
(GXFDWLRQ 7KH &RPPLWWHH PD\ HVWDEOLVK VXEFRP
PD\ LQFOXGH UHYLHZ RI SURJUDP DSSOLF DWLRQV

&XUULFXOXP DQG (YDOXDWRQ &RPPLWWHH
7KH 0' 3URJUDP &XUULFXOXP DQG (YDOXDWRQ &
LQVWLWXWLRQDO UHVSQRQVLELOLW\ IRU WKH RYHUDC
HYDOXDWRQ RI D FRKHUHQW DQG WR RRUOG LQHJDWHG FX

*UDGXDWH (GXFDWLRQ LQ %LRPHGLFDO 6FLHQFHV 3URJ

*UDGXDWH (GXFDWLRQ LQ %LRPHGLFDO 6FLHQFHV &RPP
2YHUVHHV WKH SURJUDP RI VWXG\ OHDSLQURW\ RGLKFBOR
6FLHQFHV DV ZHOO DV WKH 0DVWHU RI 6FLHQFH GHJU
7HFKQRORJ\ DQG &OLQLFDO 5HVHDUFK ,W LV WKH UH
UHFRPPHQGDWLRQV FRQFHUQLQJ DGPLVV\ QPQHQWF\ WUL
UHVHDUFK DGYLVVRUV DQG WKH SRVVLEOH ZDLYHU RI FR
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DQG DFDGHPLF IXQFWLRQLQJ RI UHVLGHQF\ SURJUDPV
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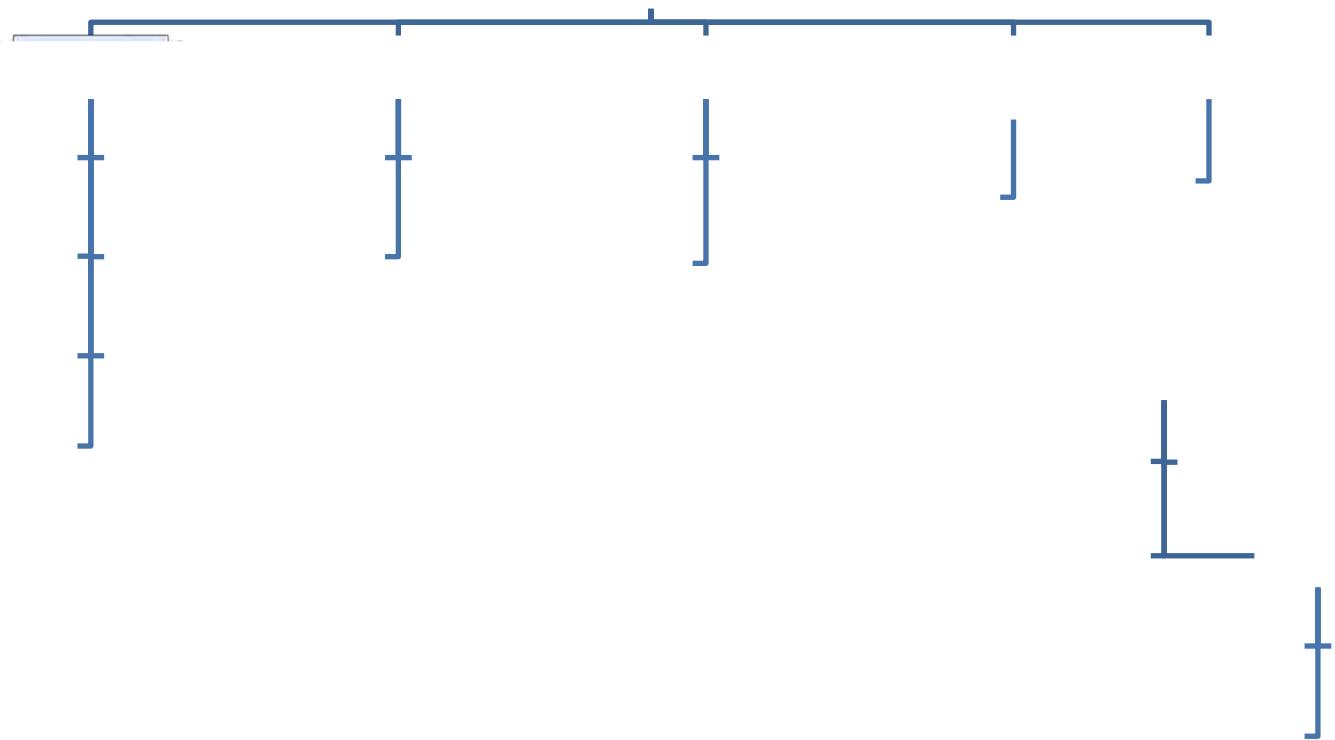
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060 UHFRJQL]HV WKH QHHG WR RUJDQL]H LWVHOI LQWR
LQGLYLGXDOV LQ NH\ SRVLWLRQV IRU WKH SXUSRVH RI SUR

7KH OHDGHUVKLS DGYLVRU\ FRXQFLO LV D GLYHUVH JURXS
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SULYDWH DQG SXEOLF VHFRUV DV GHVWLJQRHSHWR SQE
GLVHDVH DQG SURPRWH KHDOWK\ EHKDYLURV

x ,QWHUQDWLRQDO +HDOWK 7KLV WUDFN SUHSDUHV J
HGXFDWLRQ SROLF\ DQG HQYLURQPHQWDO SURJUDP
JRYHUQPHQWDO RUJDQL]DWLRQV

, Q DGG LWLRQ WR WKH FRUH FXUULFXOXP HDFK FRQFHQWU
DOORZLQJ VWXGHQWV WR H[SORUH LQ GHSWK RQH RU PRUH
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5 H V L G B H Q R F J U D P V

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SDUWLFLV\\$H\@H\@V\@Q\@H\@Q\@F\@V\@K\@H\@R\@J\@U\@D\@G\@P\@X\@D\@W\@H\@P\@H\@G\@L\@F\@D\@O\@H\@G\@X\@F\@D\@W\@L\@R\@Q\@S
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U\@H\@V\@L\@G\@H\@Q\@W\@W\@K\@Q\@W\@R\@S\@Q\@R\@G\@O\@P\@

<i>Year Initiated</i>	<i>Specialty</i>	<i>Duration of</i>

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 I H O O R Z V K L S L V L Q W K H G H S D U W P H Q W R I 6 X U J H U \ D Q G L V
 3 U R J U D P

& O L Q L F D O 2 E V H U Y H U V

0 6 0 G R H V Q R W S H U P L W F O L Q L F D O 3 R E V W U K P D M U K D Y S V G L D U Q H F W
 L Q F L G H Q W D O D F S M D W E L H Q Q W G I F R I Q G W D O V Q R W D S S R L Q W H G W R
 U H V L G H Q F L H V 7 K L V V K D O O L Q F O X G H D W D P L Q L P X P W K
 L Q W H U Y L H Z V Z D U G U R X Q G V R U R W K H U F R Q W D F W 0 6 0 D G P
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 G L G D F W L F V I R U W K H S X U S R V H R I S U R Y L G L Q J F U H G H Q W L D O

\$ GGLWLRQDO GHWDLOV RQ UHVHDUFK VHUYLFHV DQG IDFLQJ
& HQWHUV DQG ,QVWLWXWHV

& RQWLQXLQJGXFHOMFLDQOQ

7KH ORUHKRXVH 6FKRRO RI OHGLFLQH LV DFFUHGLWHG E\

S X U V X H + R Q R U V L Q & R P P X Q L W \ 6 H U Y L F H 6 W X G H Q W V Q D U H
W K H \ I H L D U V W S U H F H S W R U V K L \ \$ I D S W F S J H G Q L P D W W U K H V W F K Q H O N V U K X S D O C
S U L P D U O A D U N M K F L S

5HV LGHQWV LQ)DPLO\ 0HGLFLQH 3HGLDWULFV DQG 3UH
FRPPXQLW\ SUDFWLZFLHWKRURP\ QL\W DQIGQFLHV 0DVWHU RI
VSHQG \WKOHOH\QW RI WKUHH PRQWKV ZLWK D FRPPXQLW\ DJH
6FLHQFH LQ &OLQLFD\ 5HVHDUFK L3QJ\ RUPD\ P\Q\ DQWHPXHQW D XQ

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UHVHDUFK FRQGXFWHGO DQURQHVFBRQPKQWWKUQWJK WKH 3UH
& HQWHU DQG UHVHDUFKDFRHOGGMWVHIDUEQ QHDFZMRUHNH LQ WI
3ULPDU\ & DUH DQG WKH & OLQLFDO 5HVHDUFK & HQWHU OR
3URJUDP LQ WKH DSQNGDQDQDV&WLQQFDODO 6FLQRQFH KREXWVWLTWDXWH
7HFK FROODERUDWL RHQQWJHG BIRIPKQDFW\LQOFVXKGHH USHURIMQHFL
KHDUW GLVHDVH FDQFHU YLROHQFH +,9 \$,'6 VXEVWDQFH
SULPFDDUJUH

**6 HUYQFGH ID FXPWIEHQVHYHU\ FOLQLFDO GHSDUWPHQW SDUW
SURMHFWV 7KHVH LQFXQXGHHG ESRUWRKM B DWJH IJRUQ QVWDQFH LC
KXUULFDQH UHVSRQVH DQG YDROOGK QFW PIPXQHLW\ UPWY VDLWQ JKHD
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WR VWXGHQWV IRU SRRIRMXQFLWW\ VHBRXSF RI PHGLFDO VWXGH
WUDYHO HDFK \HDU WR FRXQWULHV VXFK DV +RQGXUDV DQG**

F X U U L F X O X P G H Y H O R S P H Q W S X E O L F V S Q S D U N R L M Q H F W D H Q G P X H G
3 D U W L F L S D Q W V S U R G X F H W D Q J L E O H H Y L G H Q F H R I W K H L U Q
F R Q F H S W S D S H U I R U D J U D Q W S U R S R V D O D Q G D S R V W H U G
7 K H S U R J U D P L Q F O Q R Q V L W X P G R L Q X D O O D U S U R J U D P D L P D H Q G D W R
F R P P X Q L W \ S U H F H S W U R R U W W D B Q I R H U H I D X F Q G Y W H K S W R Q P D W U R Q D Q G
E U L R U Q V K R S V R S H Q W R W K H J H Q H U D O 0 6 0 F R P P X Q L W \

7 KH 06&5 SURJUDP LV DIFROHLQ LDFD OG NYKQQR BDOQFX QMHW HQ WIRK
,QIRUP DMFLKQORLOVR JKRXVHG LQ WKH &OLQLFDO 5HVHDUFK &HQ
ELRVWD PMLQWFLDO/ LQIRUPDWLFV UHVHDUFK HWKLKV ZULWLC
RI DQPWHR UHG FOLQLFDO UHVHDUFK SURMHFW

060 7HDFKLQJ \$FDGHP\

7KH PLVVL RQ RI WKH 0RUHKRXVH 6FKRRO RI 0HGLFLQH 7H
H[FHO OHQFH WKURXJK FROOHJLDO LQWHUDFWLRQV WKDW
VWUHQ QWIRLHQJ RDV VHVVP HQW DQG LQQRYDWLRQ IRVWHU I
VWUXFWXUDO DQG HFRQRPLF VXSSRUW IRU HGXF DWLRQDO
LQ HGXF DWLRQ 7RZDUG WKLVV \$PRDQ QWRKULH 7QH IDWALORFO\$ PRDQ H
ZLWK GHYHORSPHQW VHVVLRQV LQFOXGLQJ ³:ULWLQJ VWHO
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7KSHDVNLFH DQG YDULRXV GHSDUWPHQWV KDYH VSRQVRUH
ZRUNVKRSV DQG SURJUDPV WR HQKDQFH WKHLU FDUHHUV
+DUYODUFG /HDGHUV LQ OHGLURDQDFR\$ORFDHFLXRQH
\$FDGHPLF OHGLFLQH 3URJUDP IRU :RPHQ DQBKRQDQQ \$\$
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6 DEEDWLFDQ

7KH SROLF\ FRQFHUQLQJ HGXFDWLRQDO VDEE~~D~~WFLXFDOW\ OH
%\\ODZ\ZR DVSGH\MDW\RRQDO OHDYH DUH RIWHQ PLVXQGHUVW
JUDQWHG DXWRPDWLFDOO\ EXW LV DZDUGHG XSRQ UHFRP
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UHVSQRQVLELOLW\ IRU IXQGLQJ WKH OHDYH UHVLGHV LQ WI
SODQQQLQJ IRU SRVVLEOH VDEEDWLFDO OHDYH IRU D JLYHQ

GLVFXVVLRQV ZLWK WKH GHDQVIFRGQWIRUQIQGJ VPKH KODHQLYHP V W
PHPEHUV ZLOO EH DEOH WR VHFXUH IXQGLQJ IRU OHDYH IU

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LQVWDQFH V RP H LQVWLWXWL RQDO IX QGV WKDW DUH FRP
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RI WKH IDFXOW\ LV LQGLVSHQVDEOH WR WKH LQVWLWXWL R
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FRPPRQ JRRG DQG QRW WR IXUWKHU WKH LQWHUHVW V RI
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\$FDGHPLF IUH\QGRLPD\QVWIRVWHKHVH SXUSRVHV DQG DSSOLHV
)UHHGRP LQ UHVHDUFK LV IXQGDPHQWD O WR WKH DGYDQF
IUHHGRP LQ UHVHDUFK DQG LQV\W\K\H\\$XME\W\RF\W\K\H\Q\B\G\RRT\X\W\K\H
RWKHU DFDGHPLXFE\RE\TH\W\LR\QR\QV U\W\H\W\K\H\Q\B\G\RRT\X\W\K\H
XQGHUVWDQGLQJ ZLWK WKH DXWKRULWLHV RI WKH LQVWLW

)XOO WLPH IDFXOW\ ZKR LV VDODULHGSE\H\W\LOG\H\Q\W\Q\O\GE WDL
HQJDJLQJ LQ WHDFKLQJ UHVHDUFK RU FRQVXOWDWLRQ I
RUJDQL]DWLRQV RWKHU WKDQ 060)XOO WLPH FOLQLFD O I
PHGLFLQH LQ *HRUJLD VK\W\H\W\K\H\Q\B\G\RRT\X\W\K\H
SURYLVLRQV RI WKH %\ODZ\ S W %Q0 0W /2rW\00PÀ<YX % € p`

VXEMHFW PDWWHU RI FRXUVHV DRYBQ QIRQX QFHGWVWQJ VMSX QH
FXUULFXOXP

\$Q\ OLPLWDWLRQV RQ WKH DFDGHPLF IUHHGRP VSHFLILFDC
VWDWHG FOHDUO\ LQ ZULWLQJ WR WKH IDF\$PORVQJ PMHRE HPUD QW
LPSOHFISVRQVLELOLWLHV RI DFDGHPLF IUHHGRP LV WKDW RI
RWKHUV DFFHSW DQ\ FRQWURYHUVLDO SRLQW RI YLHZ DV D
WR DQ\ NLQG RI DEXVH RU LQIULQJPHQW RI WKH ULJKWV RI

7KHDFXOW\ PHPEHU DPHFLQH\ HRI VOBD VRHHOS PSQIRI VSHDNO
ZULWHV DV D FLWLJHQ KH RU VKH VKDOO EH IUHH IURP L
LQVWLWXWLRQDO DILOLDWLRQ LP SERHUVHS/KVRSXHOFGL DUH PRHEDEHJ D
WKH SXEOLF PD\ MXGJH WKH WHDFKLQJ SURHVVLVRQ DQG W
LQGLYLGXDO DQG DQ HGXFDWRU RQH VKRXOG DW DOO WLP
VKRZ UHVSHFWQVRRI VRKHKRSVQL,RQ RVMGXHGU MIRQW TWKSHU & XHEVOLIF
LQVWLWXWLRQ E\ KLV RU KHU VWDWHPHQWV RQH VKRXOG
DORQH :KDHQHRQH\PK VWDWHPHQW\ULQVKZQBPMDLXQJHDW KDH FQMMW
RI 060

)DLOXUH RI D IDFXOW\ PHPEHU WR GLVFKDUJH SURSHUO\
IUHHGRP VWDWHPHQW DV RXWOLQHG DERYH PD\ OHDG W
SURYLGHG LQ WKH VHFWLRQ RI MXVW FDXVH

*HQHUDO)DFXOW\ ([SHFWDWLRQV

\$ V D FRQGLWLRQ RI HPSOR\PHQW FOLQLFDO IDFOW\ DUH
OLFHQVH WR SUDFWLFH LQ W\QHR\W\B\PHQRM \$ BIRUQ\LL\W\YD\W\HLGR
VSHFLDOW\ %RDUG FHUWLILFDWS\B\QSLQ DWKH\ L U7 KHH\ VFSRV\WW DY\W
REWDLQLQJ WKHVH FUHGHWLDOV DUH FRQVLGHUHG SHUV
DGGLWLRQ 060 GRHV QRW SURYLGH WUDYHO RU RWKHU H[
UHYLHZ FRXUVHV

7HDFKHDUQHU 5HODWLRQVKLSV

060 KDV GHILQHG DQG SXEOLFLJHG VWDQGDUGV RI FRQGX
GHYHORSHG JXLGHOLQHV IRU DGGUHVVLQJ YLRODWLRQV RI

, Q WKH **WHDUFIQH** U UHODWLRQVKLS HDFK SDUW\ KDV FHUWDFDPSOH WKH OHDUQHU FDQ H[SHFW WKDW WKH WHDFKHU OHDGHUVKLS LQ OHDUQLQJ **WKH WWRHBPKA** OHH[SHDFQG QVKH

)DFXOW\ *ULHYDQFH 3URFHGXUHV

,Q UHFRJQLWLRQ RI HYHU\ PHPEHUV ULJKW WR EH IDLUO\ LQGLYLGXDO HPSOR\PHQW VWDWXV D IDFXOW\ PHPEHU ZLW JULHYDQFH SURFHGXUH ZLWKRXW IHDU RI LQWLPLGDWLRQ

\$&8/7< \$332,170(17 \$1' 352027,21

7KH SROLFLHV JRYHUQLQJ DSSRLQWPHQW DQG SURPRWL
GHWHUPLQLQJ WKH DSSURS\DFXOW\UDQGDYDURXHO WRXQSSRQQWKR
DQG 3URPRWLRQ &RPPLWWHH 3URFHVV DQG 3ROLFLHV

)LYGHHULHV V\VWHP

060 KDLVYMH ULHV RI IDF\HOLWLH\N Q R9Z Q QDGYDFXOW\ DSSRLQW
VHULHV , DUH HOLJLEOH WR UHFHLYH PXOWL

)DFXOW\ \$SSLQWPHQW DQG &UHGHWLDOLQJ 3URFHVV

060 0 + &) \$ & 8 / 7 < 5 (& 58 , 70 (17) / 2 : & + \$ 57
& 5 (' (17 , \$ / , 1 * 7 , 0 (/ , 1 (6



& RPPXQLFDWL RQ U\$HEGLOWLDWLRSQ UHTXLUHPHQWV VWLSXC
WHDFKLQJ IXQFWLRQ PXVW EH DEOH WR FRPPXQLFDWH

, QGLFDWRUV RI FOLQLFDO FRPSHWVHQFRUD3ULBSSWIRQV
DSSOLFQWV SKRWZLQOV BHHQJDJH LQ FOLQLFDO SUDFW
DUH FDUXHOO\ UHYLHZHG IRU LQGLFDWRUV RI FOLQLF
3UDFWLWLRLQHU 'DWD %DQN 13'% WKDW OLVWV UHYRF
UHJXODDFWRLURQV LV UHYLHZHG IRU HDFK VXFK DSSOLFQ
DV JDSV LQ WUDLQLQJ DQG SURHVVLRQDO VHUYLFH Y
RI SULYLOHJHV SURHVVLRQDO OLDELOLWHLWQXHV DQ

\$&\$'(0,& 7,7/(6 :,7+287)\$&8/7< 67\$786

1RQDFXOW\ DFDGHPLF WLWOHV DUH DYDLODEOH WWRKHHFRJQ
IDFXOW\ E\ WKHLU FRQWULEXWLRLQV WR WHDFKLQJ UHVH
DVVLJQHG WSKRHQWFL WHQHQRHDUFK DVVRFLDWH FOLQLFDO DV
UHVHDUFK HVQFLKRUO DFLFHQXWUHNUWRJOYDULWVKQVHVFLW
FRQVHTXHQWO\ WKHVH DSSRLQWPQWV GR QRW FRQYH\ PH

8QOHVV VSHFLILFDOO\ VWDWHG RWKHUZLVH WKH WHUPV D
IDFXOW\ DFDGHPLF SRVLWRQDFXOWH \$HDQFHREHGHQVWQHO

\$VVLVWDQFH LQ DGPLQLVWHULQJ WKH :DJH DQG +RXU /DZ
REWDLQHG IURP

& RPSHQVDWLRQ 8QLW
+ XPDQ 5HVRXUFHV 'HSDUWPHQW

(TXDO 2SSRUWXQQLWRQ

060 LV SWRVEH DQ \$IILUPDWLYH \$FWLRQ (TXDO 2SSRUWXQQLWRQ
WKH GLYHUVLILFDWLRQ RI LWV ZRUNIRUFH 060 VHHNV WR
LQ WKH MRE PDUNHW DQG LV ILUPO\ FRPPSLRUVWVKQ\ LWR ZUW
UHJDUG WR UDFH FRORU UHOLJLRQ QDWLRQDO RULJLQ V

'LVFULPLQDWLRQ QGDQ\ WWDQH\ WLRQ 3ROLF\

(YH\60 HPSOR\HH IDFOW\ UHVLGHQW

)RU DGGLWLRQDO LQIRUPDWLRQ UHJDUGLQJ +ROLGD\ 3D\&RQQHFW

6LFN /HDYH

385326(

ORUHKRXVH 6FKRRO RI OHGLFLQH\ V SDLG VLFN OHDYH SROI
FRQWLQXDWRQ WR HPSOR\HHV ZKR DUH XQDEOH WR ZRUN
WKH LOOQHV VV IRDIP\Q\LPH\PH\GHL\W\HU SXUSRVHV RI WKLV SROL
VKDOO PHDQ WKH HPSOR\HH\ V VSRXVH RU SHUVRQ ZKR VV
VDP\H\ GRPHVWLF SDUWQHU FKLOGUHQ SDUHQW\KH\HJD
UHODWLYH UHVGLQJ \Q WKH HPSOR\HH\ V KRPH

(PSOR\HHV ZKR KDYH H[KDXVWHG WKHLU VLFN OHDYH ED

, GHQWLILFDWLRQ RI DEXVH RI VLFN WLPH UHTXLUHV JRRG
VXSHUYLVRU , I DEXVH RI VLFN WLPH LV VXVSHFWHG WKH
GLVFXVVLVRQ ~~WKH~~ DEXVH ZLWK DQ HPSOR\HH , I GXU
XVH RI VLFN WLPH LV QRW GLVFRYHUHG WKH VXSHUYLVRU
GLUHFWRQ \$EXVH RI WKH SDLG VLFN OHDYH SROLF\ PD\ U
)RU DGGLWLRQDO LQIRUPDWLRQ UHJDUGLQJ WKH 6LFN /HDY
&RQQHFW

)DPL\ 0HGLFDO /HDYH \$FW)0/\$

RL WKH P@WKRG €`€G W 0 G,,W‡U LQH OHDPH D•@LOD_

7KH FRYHUHG VHUYLFH PHPEHU LV

D 8QGHUJRLQJ PHGLFDO WUHDWPHQW UHFXSHUDWLRQ

E ,Q RXWSDWLHQW VWDWXV RU

F 2Q WKH WHPSRUDU\ GLVDELOLW\ UHWLUHG OLVW IRU

7KLV OHDYH ZLQQLQNRZMHNFHGXGU PQQQSHKULRQJOHKH FDOFXO
WKH ³VLQJOH PRQWK SHULRG EHJLQV ZLWK WKH ILUVW

RþBH G!pV QRW

VLQJOH

€Ó OHÀ_4 P KQPRB EHFVHPD) ÁY@0 Hp W QIAW W 5'8VSKLPPDÀ°0 €X50R\W@QD@Q@ Q@Q EKHÀQpI@ V@V

OL Li W €p 3y W OD 9@` R ðÀQHG 1•p WHO RL ZRUNZHg HåpV W, 9@` H

)RU DQ\ UHTXHVWHG OHDYH IRU SODQQHG PHGLFDO
PDGH E\ WKH HPSOR\HH WR VFKHGXOH DSSRLQWPHQV
GHSDUWPHQW\ V RSHUDWLRQV

% 'RFXP HQQRMD\KLDROLI\ LQJ (YHQW

\$ UHTXHVW IRU)0/\$ OHDYH PXVW EH VXEVDQWL DV
SURYLGHG ZLWKLQ FDOHQGDU GD\V RI WKH UHTXHVW
KH DOWK FRQGLWLRQ RI WKH HPSOR\HH RI PISORH\H\H\ VHD
GRFXPHQWDWLRQ PXVW EH VXEPLWWHG IURP DQ DSSUR
GXH WR DGRSWLRQ IRVWHU FDUH SODFPHQW RU DI
VXEPLWWHG IURP WKH DSSURSULDWH DJHQF\

060 UHWHQFH\H\J\ KW WR UHTXHVW D VHFRQG RSLQLRQ
PHGLFDO FHUWLILFDWLRQ 7KLV LV GRQH DW 060\ V H[
GLIIHU 060 PD\ UHTXHVW WKDW WKH HPSOR\HH REWDL
MRLQW\H\FWHG KH DOWK FDUH SURYLGHU 060 PD\ UHTX
EXW JHQHUDO\ QRW VRRQHU WKDQ GD\V

\$ &HUWLILFDWLRQ IRU D 4XDOLI\ LQJ ([LJHQF\ IURP
5HVRXUFHV 'HSDDUWPHQW ZLWKLQ TXHV\W\ OHRQG DOUH DGYD\ V
GRFXPHQWDWLRQ VXFK DV DFWLYH GXW\ RUGHUV RU R
DSSURSULDWH PLOLWDU\ VWDWXV DQG WKH GDWHV RI
V\H\W\ WIR\ Q\Z\OR @\W\ K\W\K\H\ Q\DW\ K\W\K\H\ S\W\K\H\ GHW\ D\O\ V RI WKH V

FHUWLI\ WKDW WKH HPSOR\HH LV DEOH WR UHWXUQ WR
RI WKH MRE 7KH HPSOR\HH V UHWXUQ WR ZRUN PD\ EH

)D HOWIR IROORZ WLPHO\ QRWLILFDWLRQ SURFHGXUH
)0/\$ OHDYH RU GLVFLSOLQDU\ DFWLRQ XS WR DQG LQF

& &DOFXODWLRQ RI \$YDLODEOH)0/\$ /HDYH

\$OO OH DYH UHTXHVWV WKDW DU HQM\ H\$G TW B\ D\ UG Q\ JWH
ZRUNZH\ RRUNZH\ N HQWLWOHPHQW SHULRG

)0/\$ EDODQFHV DUH GHWHPRUQWQHSGH QRQ URIOOLXQJHG E
WKH GDWH)0/\$ OHDYH LV WR EH XVHG

@ W H \$) U G L E O W H E L L E R D % , G O D X E O H D b o @ E V O P I € k) B % 6 D @ 0 Y 'À À ð D E O H p @)%6 P D

(8VH RI \$FFUXHG 3DLG /HDYH

\$Q HOLJLEOH HPSOR\HH PXVW XVH DOQOFS\$XQGLFQE@HF
DQG YDFDWLRQ OHDYH ZKLOH WDNLQJ)0/\$ OHDYH

\$FFUXHG SDLG OHDYH ZRUNWHU@GRVSHQODWLRLQ DFGC
EH FRXQWHG FRQFXUUHQWO\ ZLWK XQSDLG)0/\$ OHDYH

) &RQWLQXDWLRLQ RI +HDOWK %HQHILWV

:KLOH DR\HIRSLQ RQ OHDYH 060 ZLOO FRQWLQXH HPSOR\HH
OHYHO DV LI WKH HPSOR\HH ZHUH ZRUNLQJ DQG WKH HP
GHGXFWHG IURP WKH HPSOR\HH VSD\ WR WKH WHKWW HQHWD YWHK
SHULRG ,I DQ HPSOR\HH LV QRW UHFHLYLQJ SD\ GXULQJ
HPSOR\HH VIXOO FRQWULEXWLRLQ WKH HPSOR\HH PXVW S

KHU WKDW DSSOLHV WR WKH FRQWLQXHG DEVHQFH /LNHZL
060 ¶V REOLJDWLRQ WR PDLQWDLQ \RXU JURXS KHØWK SC
& 2%5\$ ULJKWV

- & RPSOLDQFH DQG)UDXG

060 ZLOO QRW LQWHUIHUh ZLWK DQ HOLJLEOH HPSOR\HH ¶V
RU RWKHUZLVH GLVFULPLQDWH DJDLQVW HPSOR\HHV ZKR H
IDOVH RU PLR\OPHDQGLRQ RQ RPLW PDWHULDO LQIRUPDWLRQ
RU ZKR SHUIRUP ZRUN WKDW LV LQFRQVLVWHQW ZLWK WKH
VXEMHFW WR GLVFLSOLQDU\ DFWLRQ XS WR DQG LQFOXGL

2WKHU /HDYHV RI \$EVHQFH

3DLG RMILPHRP ZRUN LV DOVR DYDLODEOH IRU HOLJLEOH IDP

<i>Leased Facility</i>	<i>Program</i>
&OHYHODQG \$YHQXH %XLOGLQJ (DVW 3RLQW *\$	0RUHKRXVH +HODWK
&OHYHODQG \$YHQXH %XLOGLQJ (DVW 3RLQW *\$)DPLO\ OHGLFLQH 3V\FKLDWU\
3LHGPRQW \$YHQXH \$WODQWD *\$	0HGLFLQH &OLQLFDO \$IIDLUV
*UDG\ +HDOWK 6\VWHPV +RVS %XWOHU 6WUHHW 6(\$WODQWD *\$	2% &DQFHU &HQWHU

, QVWLWXWL RQDO 6SDFH 3ROLF\

7KH DOORFDWLRQ RI VSDFH DW 060 LV EDVHG RQ DQ DSSUR
ZLWK WKH SODQQLQJ SURFHVV 6SDFH LV FRQVLGHUHG W
SHUVRQQHO WR WKH DFFRPSOLQHQDQWLQJDWKRQHNUHRIIRWKH E

EH SURSHUO\ GLVSOD\HG RQ \RXU YHKLFOH ZKHQ GULYLQJ P
LV RII FDPSXV \RXU 060 ,' LV UHTXLUHG WR DFFHVV WKH S

)RU DGGLWLQRQDO LVQKBRUEPDWQRQV yFVRQDQD W, W LQGD

5HLPEXUVPHQW SROLF\ RI WKH 060 +XP DQ 5HVRXUFHV 3RO
(PSOR\HH WUDYHO PXVW EH DSSURYHG ER\W\K\HR \W\SKSHU \W\SJULSD

\$Q DXWKRU\DWLRQ UHTXHVW IRU

7KIIILFH RI 6SRQVRUHG 5HVHDFR QSGPQWVWVWWDWLRQ P DW
DZDUGV EKQDQHOLF VSRQVRUV RI UHVHDUFK LQVWUXFWLRQ
265\$DQG2MKFH RI JUDQWD/URKQJFHQWVWVXULQJ VSRQVR
WKDW SURMHFW IXQGV DUH H[SHQGHG LQ DQ DSSURSULDW

2IILFH RI 6SRQVRUHG 5HVHDFK
7KHIIILFH RI 6SRQVRUHG WBDIMHguek D PDLQ EBRQHULQMRQWLR
VHUYLFLHGLWURHWDUFK DSGURLJQLDVPWHDWDRQD/O\VVW DQG D S
7KRILEM GHVLJQHG WR DVVLVW IDFXOW\ DQG RWKHUV LQ W
WKHLU ,HWRWHSRQVLEOH IRU VHUYLHQBRIDS/URSRVDRORODQBWZ
GXULQJ GUDIW SUHSDUDWLRQ

7KRIILFH RI VSRQVRUHG RSDRHWKQDPLQ WQDWWHUO HGLFDO 6FL
EXLOGLQJ RQ WKH PDLQ OHYHO

, QVWLWXWLRQDO \$VVXUDQFH V

060 WDNHV VHULRXVO\ LWWRUH [WSIRQQDPLIXLQGLV\ & DJH/QEULHV
SURFHGXUHV DUH LQ DFFRUG ZLWK UHJXODWLRQV FRQFHU

D SURWHFWLRQ RI WKH ULJKWV DQG ZHOIDUH RI KXP
E DQLPDOV ZKLFK DUH SDUW RI WKH VWXGLHV XQGHU
F UHTXLUHPHQWV QHHGHG WR DVVXUH WKH VDIHW\
ELRKDJUGV

)DFXOW\ LQYHVWLJDWRUV DQG PHQWRUV RI RWKHU UHVHD
ZRUN LQYROYHV DQ\ RI WKH VH [PDDNZDQHUVRLWKM SRQHQWLD
DVVRFLDWHG ZLWK \RXU DUHD DQG WKDW \RX IRUPDOO\ V
SURFHGXUHV

)UHTXHQWO\ \RXU DVVXUDQFH LV SDUW RI WKH SURFHVV UH
IXQGDQHJQFLRZHYHUV LI H[WHUQDO IXQGV DUH QRW XVHG L
LW LV VWLOO QHFHVVDU\ IRU \RX WR REWDLQ DSSURSULDW
EHIRUH \RX LQLWLDW\KHDQEURHIV\HIVZRUWLRQV WKDW IROO
GR WKH\ UHSODFH WKH FRPSOHWH JXLGHOLQHV RU UHJXOD
6SRQVRUHG 5HVHDFK \$GPLQLVWUDWLRQ 265\\$ 7KHVH F
\RX PD\ QHHG WR REWDLQ DGGLWLW\QDQH LQKRUPLDQW RQD
DYDLODEOH WKURXJK WKH 265\\$ HYHQ WKURXJK WKH SURMHF
SURMHFW

060¶V ,QVWLWXWLRQDO 6DIHW\ 3URJUDP SURYLGHV H[SHUW
DU HQFLVOXGLQJ KD]DUGRXV DQG ELRPHGLFDO ZDVWH PDQDJH
VXUYH\V VDIHW\ SURJUDP PDQDJHPHQW ODERUDWRU\ FKH
HQYLURQPHQWDO PDQDJHPHQW V\VWHP LPSOWRHLQVQDW\WILRVQK
KDV YDULRXV FRPPLWWHH WKDW PHHW RQ D UHJXODU ED
&RPPLWWHH 7KHVH FRPPLWWHH LQFOXGH WKH ,QVWLW
&RQWURO &RPPLWWHH DQG WRKIPLPWWHHQF\ 3UHSUHGQHV

\$OO TXHVWLQRQV UHODWHG WR DQ\ VS~~H~~WHLFQLWWHLRWX WERQE
&RPPLWWHH DQG %LRVDIHW\ 2IILFHU

*UDQWV &RQWUDFWV DQG 3URSRVDOV

%DQQHU)LQDQFH 6\VWHP

0 6 0 K D D I L Q D Q F L D O V X Q G M H T P L Q W D Q F A L D O O L S N W R E Q W W H M D W H B
% D Q Q Q I E J O X G H V W K U H H S U L P D U \ P R G X O H V Z K L 5 K V L R Q X F U C F X G / H)
7 K H U H D U H V X E P R G H O V W R L Q F Q Q X G H R Q W Q D G I F A V B D D U \$ K G D
\$ F F R X Q W G Q O H L V O R I Q D W R T G X V D H W K 7 R K Q H 5 H P R H G D X U O F H K L E Q R F W O K G H V
D 3 U B Q G 3 D R Z V D W J G V H F W L S R I Q R B / R V D N O R A U H H D W V L R Q D Q G G H Y H O R S P

\$ O O

x 060 DFFRXQW QXPEHU
x DPRXQW RI IXQGV WR EH UHDOORFDWHG
x EXGJHW FDWHJRU\ IURPQJHGLWRWZKEFKPQKH F
x GHVFULSWLRQ RI H[SBQGH WR EH LQFXUUHG
x MXVWLILFDWLRQ IRU FKDQJH ZLWK UHVSHFW WR K

& R Q V X O W R U J G D Q F V R Q D V Q G D F K W R / X W G D H S R U W P H Q W R P X Q W M Q H L U W W U
U H O D W K I G M R R O R Z L Q J U H V H D U F K P D Q D J H P H Q W W R S L F V

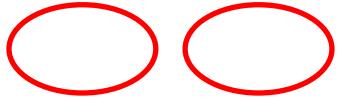
3XUFKDVLQJ

x 3 X U F I R D W H S S O L H V D Q G H T X L S P H Q W
x & D Q F H O R O D H M I L V R Q L Q J S X U F K D V H R U G H U
x 5 H W R U Q U R G X F W V D F T X L U H G E \ S X U F K D V H R U G H
x (T X L S P M F Q U W H Q L Q J S U L R U W R S X U F K D V H
x (T X S P H Q W D V H V
x & R P S H W E L W G Y Q J
x & R V S W L F H D Q D O \ V L V U H T X L U H P H Q W I R U H [S H Q G
x 5 H T X L U H P H Q W V I R U V R O H V R X W F H S X U F K D V H Z L
x 5 H F H L Y L Q J S U R F H G X U H V

* U D Q W V D Q G & R Q W U D F W V

x \$ FFR~~Q~~WE HU VHWXS
x % XG~~F~~K~~D~~QJHV
x \$ ZDU~~G~~LGHOLQHV FRVW SULQFLSOHV
x) DFL~~O~~Q~~Q~~HDVG PLQLVWUDWLRQ LQGLUHFW FRVWV
x \$ ZD~~U~~~~G~~RVHRXW SURFHGXUHV
x 5HFRURGILQRIVW VKDULQJ
x 7LP~~H~~QG HIRUW FHUWLILFDWLRQ
x 6X~~E~~HFLSLHQW UHSRUWLQJ
x * UDQW WUDQVIHU
x 6XEFRQWUDFWV
x & RQW~~U~~X~~E~~VFR~~R~~WUDFWV ZLWK LQGXVWU\

7KH DERYH OLVWLQJ GRHV QRW LQFOXGH DOO PDQDJHPHQW
IXQGV 2WKHU LPSRUWDQW WHRPSLOFR\ PLQGW XRGDHWUWHFLWX LWWPHD
VWDII \RX PD\ QHHG WR KLUH WR SZURUMLHZ LWK \RKXH RSQX URSRULH
WKH JHQHUDO LQIRUPDWLRQ SUHVHQWHG KHUHLQ LV WR
DGPLQLVWUDWLYH VWDII VR \RX FDQ UHWDLQ DGHTXDWH W



1DWLRQDO ,QVWLWXWHV RI +HDOWK 1,+ 3XEOLF \$FFH\

7KH ,+ 3XEOLF3\$RFLHFVVLPSOHPHQWV 'LYLVLRQ * 7LWOH ,, 6
&RQVROLGDWHG \$SSURSULDWLRQV \$FW ZKLFK VWDWH

6(& 7KH 'LUHFWRU RI WKH 1DWLRQDO ,QVWLWXWHV LQYHVWLJDWRUV IXQGHG E\ WWWHG ,HRUVXERIHW WRB WID /LEUDU\ RI OHGLFLQH\ V 3XE0HG & HQWUDO DQ HOH UHYLHZHG PDQXVFULSWV XSRQ DFFHSWDQFH IRU DYDLODEOH QR ODWHU WKDQ PRQW\ WRDYLWGHUGWK 7KDW WKH 1,+ VKDOO LPSOHPHQW WKH SXEOLF DFFRS\ULJKW ODZ

7KLV SROLF\ HQVXUHV WKDW WKH SXEOLF\ KQOGHDF\ BHV\ DMRF\ UHTXLUHV VFLHQWLVW\ W\ QPDLQ P\ Q\ \QFS\H\ SW\ WKDW DU WKH GLJLWDO DUFKL\W\ W\ S\ E\ O\ H\ G\ Z\ Q\ F\ Q\ W\ Q\ D\ Q\ K\ H\ V\ H\ J\ R\ Y\ Q\ S\ D\ P\ S\ H\ UHYLHZHG PDQXVFULSWV PXVW EH DF\ D\ H\ O\ V\ V\ Q\ E\ R\ O\ H\ G\ W\ R\ W\ R\ H\ K\ S\ VFLHQFH DQG LPSURYH KXP\ D\ Q\ K\ H\ D\ O\ W\ K

SUDFWLFHV SULRU WR 3UARLSCHLJ MQ JVW K M L \$ F H V H D Q G H F W L X D R I G W
DFXOW\ % \ODZV

5HVHDUFK &RQIOLFVW RI ,QWHUHVW

5HODWLRQVKLSV EHWZHHQ SULYDWH LQGXVWU\ DQG DFDG
HVVHQWLDO IRU IUXLWIXO GUXJ DQG PHGLFDO GHYLFH GHY
DUH FRQVWUXFWLYH SXEOLF SHUFHSOML RPQ QKRDUL WE\H RQ DXFO
UHVHDUFKHUV DQG FOLQLFLDQV ZKR KDYH EHHQ ILQDQFLDC
SURGXFWV ,Q WKH 3+6 LVVXHG UHJXODWLRQV UHTXL
GHYHORS FRQIOLFVW RI)RLQ WWHKULHV WH D R R Q F L R U H K R X V H 6FK
ORUHKRXVH +1000WKKFDDYUHLQVWLWXWHG UHVHDUFK FRQIOLF
PDLQWDLQ SXEOLF WUXVW LQ EDVLF DQG FOLQLFDO UHVHD
WR WKH UHVHDUFKHU IRU PDLQWDLQLQJ FRPSOH[DQG I
PDLQWDLQLQJ WKHLU KLJKHVW LQWHJULW\ DQG LPSDUWLD

&RQIOLFVW RI LQWHUHVW DUH GHILQHG DV FLUFXPVWDQFH
DFWLRQV UHJDUGLQJ LQWHOOIHMWIKQ OJ ISVIRSHIEKV\ SURYLVL
RXWVLGH TRXIDOOLOW\ RI PHGDQ RQ ZHGXIFDDUML RQ SDWLHQWV ZLO
RWKHU VHFRQGDU\ LQWHUHVW QWFKHWW YGHLSLHWGRV\ RACK IE RFMR
WKDW SURIHVVLRQDO MXGJPHQW ZLOO EH FRPSURPLVHG D
RI UHVHDUFK PHGLFDO HGXFDWLRQ RU ZHOIDUH RI SDWLH

3D UW &) 5 3D LQW &) 5 3D UDMQ G DSSOLHV WR DOO PHGLFD
UHV LGHQWV LQWHUQV VWXGHQWV DQG WUDLQHHV RI 060

,W LV WKH SROLF\ RI 060 WKDW DQ HPSOR\HH ZKR LV UHVS
RI D VSRQVRUHG UHVHDUFK SURMHFW XQGHU WKH DXVSLI
LQWHUHVWV WKDW DUH RU PD\ EHFS\HDQ\GLYHK\QW\QSHURSH
FRRSHUDWLYHO\ ZLWK WKH 9LFH 3UHVLGHQW IRU 5HVHDL
2IIIFHU2\&WR GHYHORS DQG LPSOHPHQW SODQV WR PDQD
LQWHUHVW ([LVWLQJ RQWSRUWHVQWPE\WFREQIOLFLW\ORR/IHG SU
SURSRVDO IRU IXQGLQJ \$FWXDO RU SRWHQWLDO FRQIOLF
IXQGHG SURMHFW PXVW EH GLVFORVHG DV VRRQ DV WKH
LQWHVWV PD\ DIIHW WKH GHVLJQ FRQGXFW RU UHSRUWLQ
RU HOLPLQDWH WKH FRQIOLF

0601 V 5 H V&RDQUIRK FOWH UHW 3 ROLF KWD SEH ZZ FPHWR H^G XD W

)DFXQWGXVWU\ 5HVHDUFK 5HODWLRQVKLSV

7KH 0RUHKRXVH 6FKRRORRIH[KRQVFLQHODQWKEDVUGHGLFDWL
LPSURYLQJ WKH [KHDQWJRI DQG LZYHOGXDOV DQG FRPPXQLWLH
WKH KHDOWK SURIHVVLRQDO DQG VFLHQWEDLUHZQRUHNGR/UMKU
SURJUDPV LQ HGXFDWLRQFLFHV[DWKHPDSQKSVLV RQ SHRS
XQGHUVHUYHG XUEDQ DQG UXUDO SR&K\ODMKDRQHG LPQVWLRQ
WKDW IDFXOW\ VWXGHQWV WUDLQHHV DQG VWDII RI
SKDUPDFHXWFKQROREJ\RWPHGLFDO GHYLFH DQG KRVSLWD
³,QGXVWU\` LQ D PDQQHU WKDW DGYDQFHV WKH XVH RI
DGYDQFHPHQWV DQG QHZ WHFKQRORJLHV EHFRPH EURDGO\\
ZLWK ,QGXVWU\ FDQ EH EHQHILFLDO ,QGXVWU\ LQIOXHQF
LQWHUHVW WKDW PD\ OHDG WR LQFUHDVHG FRVWV RI KHD
VRFLDOLJDWLRQ RI VWXGHQWV DQGDQGDGQPHQVLV\HDGV FRRIQW
UHVSHFW DPRQJ SDWLHQWV WKH JHQHUDO SXEOLF DQG UH
VXSSRUW RU JLIWV HYHQ LQ PRGHVW DPRXQWV FDQ H[HU
EHKDYLRLU 060 DSRDGRS\WLRQJRYHUQ WKH LQWHUDFWLRQ
SHUVRQQHO

7 K B R O L F W D Q G H I O R L Q H Q W H U D F W L R Q V Z L W K 3 K D U P D F H X W L F D O
D Q G + R V S L W D O D Q G 5 H V H D U F K (T X L S P H Q W 6 J X S L S C H O L Q G H X W W R
L Q W H U D F W L R Q V Z L W K L Q G X V W U \ U H S U H V H Q W D W L Y H V I R U P
W U D L Q H H V R I 0 6 0 , Q W H U D F W L R Q V Z L W K L Q G X V W U \ R F F X U
Q H Z S K D U P D F H X W L F D @ Y S L U F R I G X F D M Q V G B P H I G H L B D D K G H M T L X W S P H R Q W
O G U H P ô @ b D € Y

SDUWILFQL \$LQWHUDFWLRQV ZLWK LQGXVWU\ RII FDPSXV DQG
RI WKH VH LQWHUDFWLRQV DUH SRVLWLYH DQG LPSRUWDQW
PLVVLRQV RI 060 +RZHYHU WKH VH LQWHUDFWLRQV FFWRQHDFK
LQWHUHVW WKDW FRXOG HQGDQJHU SDWLHQW VDIHW\ GDW
SURJUDPV RU WKH UHSXWDWLRQ RI HLWKHU WKH IDFXOW\

7KHUHIRUH LW LV WKH SRQVLEPRDN LQGJ0 W\G\WD FOLQLQJ FDQOGGUH
EH IUHH IURP LQIOXHQFH FUHDWHG E\ LPSURSHU ILQDQFL
,QGXVWU\)RU SXUSRVHV RI WKLV SROLF\ ,QGXVWU\ LV
DQG ELRRWHFIRQDO GHYLFH DQG KRVSLWDO DQG UHVHD
DQG WKHLU UHSUHVHQWDWLYHV ,Q DGGLWLRQ FOLQLFLD
FRPPHUFLDO EODQGLVK PHQHDFK W\G\WD FOLQLQJ FDQOGGUH
ERUQH E\ RXU SDWLHQWV DQG WKH SXEOLF DW ODUJH 7KH
UHODWLRQVKLSV RU LQWHUDFWLRQV EHWZHHQ 060 SHUVRQ

060\ 3ROLF\ DQG *XLGHOLQHV IRULFQWHUDRWHRQQRZOLRWK

x 7H[W PHVVDJHV 606 WR FHO O SKRQHV
x (PDLO
x 9RLFH PHWVQDQHFLDO FLUFXPVWDQFHV HPHUJHQF\ DOH
DQG KRPH SKRQHV

:KHQ WKH 060 'HSDUWPHQW RI 3XEOLFPDIEHW\ DQG WKURXJK WKH 060 (PHUJHQF\ \$OHUW V\VWHP

,Q RUGHU WR UHFHLYH WKH VHV XUJHQW QRW LILFDWL RQ DOH
3DUWLFLSDQWV PD\ UHJLVWHU D YDUH\ W\ DQG WKURXJK WKH 060 (PHUJHQF\ \$OHUW V\VWHP

7R UHJLVWKH\ W\ SJR WZ Z JHWUD YH\ DRI\ P\ R\ Q\ L\ D\ V\ UI ROORZ
LQVWUXFWLRQV

)RU DGGLWLRQDO LQI\ B\ H\ P\ D\ W\ UR\ Q\ I B\ R\ Q\ W\ D\ F\ V\ D\ I\ H\ W\ RU 'LUH
3UHSDUHGQHQV

)LUH DQG 'LVDVWHU 3ODQ

)LUH SUHYHQWLRQ HGXFDWLRQ LV D S\ P\ D\ Q\ D\ U\ H\ PRHEQM\ H\ F\ W\\$ M\ F\
LQIRUPDWLRQ DERXW ILUH VDIHW\ DQG HPHUJHQF\ HYDFXI
GHSDUWPHQWDO RU IORRU ILUH PDUVKDO

\$Q RUGHUO\ DQG QHDW ZRUN DUHD LV HVVHQWLDO WR ILUH
WRH\ W\ ULFDO ZLULQJ VZLWFKHV DQG OLJKWLQJ VKRXOG EH
DQG DOO B\ V\ W\ H\ D\ H\ N\ S\ R\ U\ W\ H\ G\ 7KH XVH DQG PDLQWHQDQFH
FRRUGLQDWHG ZLWK WKH \R\ S\ L\ E\ \\$,-R\ D\ O\ R\ W\ %\ N\ O\ P\ D\ Q\ D\ J\ H\ P\ H\ Q\ W

'6\%\$RUDJH RI IDW\ R\ B\ D\ E\ O\ H\ PXVW EH DSSURSULDWH *DV F\ O\ UDFNV %XWDQH DQG SURSDQH DUH 127 DOORZH G LQ DQ\ OLTXLGV RQO\ LQ DSSURYHG VWRUDJH FDELQHWV \RX VKI \\$, -I

(QYLURQPHQWDO 6DIHW\

\$ PHGLFDO VFKRRRO HQYLURQPHQW KDV XQLTXH VHFXULW\ ELRORJLFDO FKHPLFDO DQG UDGLRORJLFDO DFWLWHLWLHV &RXQFLO DUH FKDUJHG ZLWWKKRGRUQIHRKWDORWUWWHLWLHV RI WKH YLFH SUHVLGHQW IRU RSHUDWLRQV DQG SODQQLQJ

(QYLURQPHQWDOH V6SDBIH RWEIRVORJLFDO FKHPLFDO ILUH DQ)XUWKHUPRUH O60WRUDHLQWLQJ VSUJRIJWUDP IRU IDFXOW\ DQG VV SRWHQWLDOO\ ELRKDJDUG PDWHULD OV UDGLRLVRWRSHV RWKH DSSURSULDWH FHUWLILFDVRILRNQXIRLUQPJV VEXHFIKR BDWQUWDO

, I \RXU UHVHDUFK LQYROYHV SRWHQWLDOO\ KDJDUGRXV D %LRVDIHW\ DQG 5DGLDWLRQ 6DIHW\R&JR PGPVWWLWWHGXW&RQIDUO 6D

\$ FRS\KRIIWWOORZLWORFS\WHDQGEIWO\WKH

&KHPLFDO +\JLHQH 3ODQ
(PHUJHQF\ 5HVSRQVH 3ODQ
)LUH DQG 'LVDVWHU 3ODQ
*HQHUDO 6DIHW\ 3ODQ
, QIHFWLRQ &RQWURO 3ROLF\
:RUNHUV\ &RPSHQVDWLRQ , QVXUDQFH

\$ 33/, & \$ % , /, 7 <

\$OO UHJXWQDHW DXWOPSHDHWWSOR\HHV DQG UHVLGHQWV DUH HOL FRPSHQVDWLRQ EHQHILWV 7HPSRUDU\ ZRUNHUV DQG VWXG ZRUNHUV\ FRPSHQVDWLRQ EHQHILWV , QGHHSLYQIGZRQVM HURQWM FRPSHQVDWLRQ EHQHILWV

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\$ (PSOR\HH 5HVSRQVLELOLWLHV

, PPHGLDWHO\ SURYLGH DV PXFK LQIRUPDWLRQ DV \RX VXSHUYLVRU RU GHSDUWPHQWDO GHVLJQHHW ZKLWWKSHU DUUDQJLQJ SURSHU PHGLFDO FDUH DQG EHJLQ WKH LQ , I \RX UHTXLUGH PHGLFDO WUHDWPHQW IROORZ WKH SWKH KHDOWKF DUH SURYLGHUV DV VHW IRUWK RQ WKH 3

& RPSOHWH WKH (PSOR\HH\|V , QFLGHQW 5HSRUW)RUP
EH VLJQHG DQG VHQW WR WKH +XPDQ 5HVRXUFHV 0DQD
WKH +DUUL\|V R\RXPL\|GLQJ

% 6XSHUYLVRU 5HVSQRVLELOLWLHV

, PPHGLDD\WH\|V WKH LQFLGHQW DQG WKHQ DVVLVW WKH H
FDUH RU QHFHVVDU\ WUHODD\WPHHQ WQIN\XUDQ\I ZDQW\KQ\H\|W\WHLQ\|
HPHUJHQF\ FDOO

& RPSOHWH WKH 6XSHUYLVRW\|V , \RKHG\HRQW\ 5M SRRUP\\$ QF
EH VLJQHG DQG VHQW WR WKH +XPDQ 5HVRXUFHV 0DQD
, PPHGLDW\|FRQWDFW WKH 'HSDUWPHQW RI +XPDQ 5
HPSOR\HH IURP D WHPSRUDU\VDZHQ\|FR\ \W\|DQF\|V\|HW\|R\|LDFJ
WKH DSSURSULDWH SHUVRQ RI WKH LQFLGHQW

& +XPDQ 5HVRXUFHV 5HVSQRVLELOLWLHV

'LVFXVV WKH IDFWV ZLWK WKH (PSOR\HH DQG WKH 6)
RU \RQ\SHQVDELOLW\ RI HDFK LQFLGHQW
& RR\WGL\|D\|RUWV IRU UHWXUQLQJ DQ LQMXUHG HPSOR

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\$)LUVW 6WHSV ,I DQ ,QMXU\ 2FFXUV

7KH HPSOR\HH\|V KHDOWK DQG VDIHW\ VKRXOG EH D SULPI
RFFXUV WKHVH JHQHUDO JXLGHYOLQW\ VRM\|R\ XLOOF\EGHICR\|O\ OMRZD
FDXVHV D ZRUN LQMXU\

(PHUJHQ\|D\|O ZKHQHYHU DSSURSULDWH DQG QHFHVVDU
PHGLFDO DWWHQWLRQ WKH HPSOR\HH ZLOO JR WR WKH Q
V\|W\|FH ZKHQ QHHGHG 3XEOLF 6DIHW\ VKRXOG EH QRWLILHG
ILUH DPEXODQFH HWF

1R\PHUJHQ\\$Q\HPSOR\HH\|V , QFLGHQW 5HSRUW)RUP VKRXOG
VHQG WR WKH +XPDQ 5HVRXUFHV\|WY\|L\|V\|D\|E\|D\|Q\|W\|H\|Q\|G\\$ / 6\|D\|S\|H\|U\|
5HSRUW)RUP VKRXOG DOVR EH FRPSOHWHG ZLWK WKH DVV
5HVRXUFHV 'LVDELOLW\ DQG /HDYH 6HUYLHV 0DQDJHU 20
/HDYH 6HUYLHV G\|D\|Q\|H\|U\|P\|L\|Q\|K\|D\|Y\|W\|K\|H\|L\|Q\|M\|X\|U\|H\|G\|H\|P\|S\|O\|R\|H\|H\|Q\|H
WKH HPSOR\HH PXVW XVH RQH RI WKH SK\VLFLDQV RQ RXU

R U V W D W H P H Q W V R U F R Q F H D O V F D R F V S W Q Q D R M L C R I Q E W R H U H W W
W R S H Q D O W L H V

SURYLGHG WKH HPSFORRQWWI W XFRQGLDWLRQLRXV +HDOWK & R
0/\$
)RU DGGLWLRQDO LQIRUPDWLRQ SOHDVH UHIHU WR 060TV

&KLOGUHQ RQ WKH 3UHPLVHV

&KLOGUHQ LQ DQ\ SDUW RI WKH EXMLXOSGHUQJL P KRW REIHDXQ GWH\$JR
DW DOO WLPHV

&KLOGUHQ \HDUV DQG XQGHU ZKR YLVLW 060 ID
UHVSQRQVLEOH DGXOW DW DOO WLPHV

&KLOGUHQ \HDUV DQG XQGHU DUH QRW DOORZH
IDFLOLWLQH[SHE\$WLF LQVWDQFHV

&KLOGUHQ ZKR SDUWLFLSDWH LQ VSRQVRUHG SURJ
PDI YLVLW 060 ODERUDWRULHV DQG WKH DQLPDO II
E\ D GHVLJQDWHG 060 UHSUHVHQWDWLYH DW DOO V

&KLOGUHQ ZHUGI LQFWODDOV\RRRPV ZKLOH FODVVHV DU
FODVVURRPV DUH DOORZH KRZHYHU VXFK YLVLW
UHVSQRQVLEOH DGXOWV

&KLOGUHQ DUH QRWPBICOB ZHUGI WQHUVKLHQ P Q Q Q ILQJ WK
H[FHSHWQZKD UWLFSDWLQJ LQ D VSRQVRUHG SURJUD
PXOWLPHGLD VWDII 6XFK FKLOGUHQ PXVW EH V
UHSUHVHQWDWLYH DW DOO WLPHV

&KLOGUHQ XQGHU WKH DJH RI DUH QRW DOORZH

&KLOGUHQW\KHHWZHHMQ RI DQG ZKR HQWHU WKH
VKRXOG UHSRUW WR WKH SXEOLF VDIHW\ GHVN ZK
WR UHFHLYH KLV KHU JXHVW IURP WKH OREE\

/,%5\$5<

7KH OLEUDU\ LV SK\VLFDOOW\RFODHGLG DRQQ (OKADIWURQ %OKRLQ
FRQWDLQV FXUUHQW LQIRUPDWLRQ UHVRXUFHV LQ WKH KH
OLEUDU\ KDV DUHDV IRU JURXS DQG LQGLYLGXDO VWXG\\$
VWXG\ FDUUKHORFDIDQ\GHLDQGWQJ URRP DUH WDEOHV DQG FKDL
ZRUNVWDWLRQV ZLWK ,QWHUQHW DQG ,QWUDQHW DFFHVV
WKH OLEUDU\ SURYLGHV DFFHVV WR D VH\H\W\RLXRUQQ\RO\W\O\QRF
RWKHU GDWDEDVHV

7KH OLEUDU\ XVHV &\EHU7RROV IRU /LEUDULHV DV LWV RQ
ORFDWLQJ PDWHULDQV ZLWKLQ WKH FROOHFWLRQ <RX PD\

UHG XQGDQFDYDQGO\K\ENQLW\ 8VHUV DOVR KDYH WKH DELOI
UHPRWHO\ E\ XVLQJ D YLUWXDO \\$RUULYDDGAGHL W\IHRAGZDQJ NL Q QRS\ P
WKH VHUYLFH GHV\IRUD\KLHI ,QIRUPDWLRQ 2IILFHU DW

,QIRUPDWLRQ 7HFKQRORJ\ 3ROLFLHV DQG 3URFHGXUHV

\$OO XVHUV RI 060 FRPSXWHU V\VWHPV PXVW DFW UHVSRQV
VWDII DUH WR EH XVHG WR FRQGXRFV\\$O6\Z LEVK\ LVQKHVVYQ I\$ROOP\W
3ROLF\ 7R 10RR R\HG WR FRQGX€(0 Zà P€G \$V-#` RQGX€(0 Zà P€G

3ULQWHG DQG (OHFWURQLF ,QIRUPDWLRQ ODWHULDGV

7R HQVXUH SURMHFWLRQ RI D SRVLWLYH LQVWLWXWLRQDO
GLVVHPLQDWLRQ RI SULQWHG LQIRUPDGWLQQRDUOPDOWWRHQUDDEXR
060 DQG LWVWSKUHRJUDLFFVH RI ODUNHWLQJ & RPPXQLFDWLRQ

7 KHD WIHFUB SQUOKWLN@HY&LQPRXDOVLE DOW MRpQ LLQ 00 P PDPV

(YHQWV &DOHQGDU 3XEOLFLW\ 3URPRWLRQV

7R DYRLG RYHUODSSLQJ RI LPSR ~~RWWDQNH~~ W~~Y&KOPWDQH~~ D06IDR Q
FRRUGLQDW HV GDWHV DQG KHOSV IDFXOW\ SURPRW~~M~~H DQG S
RIILFH DOV~~RODQDRH~~ YHQWV WKDW~~W060~~ QVRHFD~~WYSLU~~ Q~~W~~ W~~YRDXL~~
QH[W HYHQW RQ WRKH WKH 060 YZLW~~ELONGW~~ WKH 0DUNHWLQJ & RF
ZHEVLWH RQ WKH 060 LQWUDQHW

*RYHUQPHQW 5HODWLRQV

060 KDV DQ LQWHUHVW LQ SRVLWLYH LQWHUDFWLRQ ZLW
\$OWKRXJK IDFXOW\ PHPEHUV DUH HQFRXUDJHG WR EH DFW
FRRUGLQDW \RXU HIRUWV WKURXJK W~~KH~~ 2([W~~HUQDOR~~\$IH~~D~~
\RXU HIRUWV LQYROYH FRQWDFWLQJ VSHFLILF JRYHUQPHC
7KH 2IILFH RI *RYHUQPHQW 5HODWLRQV 3ROLF\ ([WHUQD
IHGHUDO UHJLRQDO Q~~WQWM~~ D~~QHQ~~ B~~IRHF~~ O~~DQJRGY~~ W~~WUDWHJLF~~
6FKRRO EHIRUH PHPEHUVKLS RUJDQL]DWLRQV FRDOLWLRQ
ZKRP 060 KDV FRPPRQ LQWHUHVWV 7KH 2IILFH RI *RYHUQ
\$IIDLUVRL~~WHDOR~~ QVLEOH IRU VWUHQJWKHQLQJ DQG EXLOGL
LPSURYH XQGHUVWDQGLQJ DQG VXSSRUW IRU WKH ,QVWLW
SURYLGHV FULWLFDO DQDO\VLV RQ WKH Q~~PSLDHF~~ W~~RQ~~ S~~ZRSURM~~
H[WHUQDO SDUWQHUV WR GHYHORS DQG LPSOHPHQW VWUD
PLVVLRQ JRDOV DQG REMHFWLYHV

<RX DUH HQFRXUDJHG WR EULQJ VXFK PDWWHUV WR WKH D
RI *RYHUQPHQW 5HODWLRQV 3ROLF\ ([WHUQDO \$IIDLUV DW

3ULYDWH *LIW 6ROLFLWDWLRQ

7KH 2IILFH RI ,QVWLWXWLRQ ~~W~~ L\$GLYQDJQDFH~~W~~ H~~QW~~ W~~G~~ U~~HFRV~~ D~~A~~
WKH FDPSXV ,Q RUGHU WR VPXDFH~~W~~ YH ~~B~~~~S~~~~R~~~~G~~ ~~X~~ Q~~W~~ D~~E~~ ~~B~~ W~~LDRQG~~
DGKHUHQFH WR LQVWLWXWLRQDO SULRULWLHV WKH 2IIL
FRRUGLQDWLQJ DJHQW IRU DOO O~~R~~~~D~~~~H~~~~K~~~~R~~~~Q~~~~J~~ W~~R~~ ~~F~~~~I~~~~K~~~~R~~~~O~~~~X~~ B~~H~~ O~~W~~
FRQWUL~~WQD~~ W~~LRQ~~ VG JLIWV RU EHTXHVWV DQG RWKHU SODC

3URSRVDOV WR LQGLYLGXDOV FRUSRUDWLRQV IRXQGDWL
GLVFXVVHG ZLWK WKH 2IILFH RI ,QVWLWXWLRQDO \$GYDQF
SURSRVDOV IRU JRYHUQPHQW JUDQWV RU UHVHDUFK FRQW
ZKLFK DUH WR EH KDQGOHG WKURXJK WKH 2IILFH RI 6SRQV
\$GYDQFH~~PHQW~~ ZLOO ZRUN LQWHUDF~~W~~ H~~QW~~ F~~ZKL~~ W~~R~~ W~~R~~ R~~U2~~ L~~Q~~
DQG UHFRUG DOO SURSRVDOV WKURXJK WKH FOHDUDQFH S

+RVSLWDO 3ULYLOHJHV

060 FOLQLFDO GHSDUWPHQWV PDNH GHFLVLRQV DSELRAWDNO KRV
DSSOLFDWLRQV DUH FRPSOHWHG E\ WKH GHSDUWPHQW DQG
PDNHV GHFLVLRQV DERXW WKH KRVSLWDOV WKH GHSDUWPH
)RU DGGLWLRQDO LQIRUPDWLRQ DERXWQ LSRUV & EWDWORUHHOD W
&OLQLFDO \$IIDLUV DW

060+ & & 203/, \$1& (352*5\$0 , 1&/8', 1* +, 3\$\$

0RUHKRXVH 6FKRRO RI 0HGLFLQH ^060' LV FRPPLWWHG V
HIIHWLYH FRPSUHKHQVLYH FRPSOLDQFH FSRURUHFDP YGLHRVQD
RI ODZV UHJXODWLRQV DQG LQVWLWXWLRQDO SZRLQGHFLHV
&RPSOLDQFH 3URJUDP ZKLFK SURYLGHV D IUDPHZRUN IRU O
VWDWH DQG ORFDO ODZ\ QDFQGX QJLHQJK O\DXWL RQRWLQLDUWBIIG W
UHLPEXUVPHQW NWKNE)HFGNH 6BD \$ QWL

7KH 2IILFH RI & RPSOLDQFH DQG , QWHUQDO \$XGLW 32&,\$' WKLV PLVVLRQ KED WHQ & UFLRQJG XFWV LWV RSHUDWLRQV LQ DQ 7KH PLVVLRQ RI WKH 2IILFH RI & RPSOLDQFH DQG , QWHUQDO FRPSOLDQFH WWDW HQFRXUDJHV HPSOR\HHV IDFXOW\ VWXUHVHDUFK DQG FOLQLFDO DFWLYLWLHV ZLWK WKH KLJKHV\ :H HQFRXUDJH DOO HPSOR\HHV IDFXOW\ VWDII DQG DJHQ ZLWK TXHVWLRQV RU FRQFHUQV DW

, Q DGGGLWLRQ DQ\ HPSOR\HH RU LQWHUHVWHGRPSOLDQFH
VKRXOG HLWKHU VSHDN WR KLV KHU VXSHUYLVRU RU 060 0
&RPSOLDQFH +HOSOLQH &RPSOLDQFH &RPSOLDQFH &RPSOLDQFH
ZULWLQJ DQG PD\ EH DQRQ\PRXV ,I DQ HPSOR\HH RU LQW
LVVXH LV D FRPSOLDQFH PDWWHU RU KDV DQ\ TXHVWLRQV
RI DQ\ ODZ UHJXOWWQHQUSGRQFLH RUVXH RU TXHVWLRQ V
KHVLWDWLRQ WR WKH HPSOR\HH\ V VXSHUYLVRU 060 0+
&RPSOLDQFH +HOSOLQH

) R U D G G L W L R Q D O L Q I R U P D W L R Q D E R X W W K H 0 6 0 0 + & & R P S
Z H E W H K V D W S Z Z Z P V P H G X H [H F B R I Z K F H H H F R R X S P D Q Q Y F L H H Z D V A S K
& R Q G X F W U H O H Y D Q W F R P S O L D Q F H S R O L F L H V D Q G S U R F H C
R W K H Z X K F Q S S U O H Q D W H G L Q I R U P D W L R Q

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,I \RX VHH SDWLHQWV PDOSUDFWLFH LQVXUDQFH LV UHT
LQVXUDQFH IRU IDFXOW\ ZKR SHUIRUP VHUYLFHV RLQWEHKDO
SROLF\ FRQWDLQV WKH IROORZLQJ FRQGLWLRQ

7KH LQGLYLGXDO V OLVWHG EHORZ LV LQVXUHG DV ORQJ D .QF DQG SHUIRUPLQJ VHUYLFHV RQ EHKDOI RI 060 RU 0RUH

7KLV FRQGLWL B QOL P LYWDW H B QD RI FRYH UD JH E \ VHYH UD O R I
VHH SDWLHQWV RQ RXU EHKDOI 7KHVH KRV SWLMPDHOM D X\NWW
IRU ZKRP ZH VH QG D FHUWLILFDWH RI LQVXE\BQDF\RI D\\$@OL
SURIHVVL RQDO VHUYLFHV PXVW EH ELOOHG WKURXJK 0+&
SDUW\ SD\HUV IRU VHUYLFHV UHQGHUHG VHHN WR FROOH
VHHN WR ELOO RU FROO\PH\XQ\WR\UQ\XH\KHW\U\RL\W\H\K\H\DD\Q\PRDX\QW
VXFK VHUYLFHV 2XU LQVXUDQFH GRHV QRW FRYHU \RX
SURYLGHG RQ EHKDOI &R QM6\OT\X\NQ\Q\A\Q\W\LP\H IDF\XOW\ DUH Q
³P RRRQOLJKW' R\W\W\W\G\H\RS\Q\ND\Q\H\RS\S\Q\O\Q\R\Z\DO\Q\R\Q\W\R SURYLGH
0+& SDWLHQWV DW DQ\ IDF\LO\W\ ZL\W\H\K\Q\X\W\R\I\\$D\W\H\W\H\B\Q\U&
&OLQLFDO \$IIDL\W\H\B\Q\W\G\L\W\H\K\H\W\H\B\Q\U&

)RU SDUW WLPH FOLQLFDOFIID@XOOLVDE L006L0WS ULQYMLXGUHDQ PH GMR F
FDUH UHVS RQVLELOLWLHV H[SOLFLWO\ VWDWHG LQ \RXU ID
PHGLFDO OLDELOLW\ LQVXUDQFH WR FRYHU UHVS RQVLELO
XQD M@IGX W RJ HR/SRQVLELOP XW\W W B@WX Q@H D@RGX PDLQWDLQ IUR
E\ WKH 6WDWH *HRUJLD SURIHVVLRQDO OLDELOLW\ FRYHU
RFFXUUHQFH \$ FRS\ RI WKH GHFO@W W ISR@OVL FSD JHK LRAK\ R@R
UHVS RQVLELOLW\ IRU SULYDWH SDWLHQWV LV UHTXLUHG
HIIHFWLHYH ,I \RXU FRYH UD JH ODSVHV \RX PXVW QRWLI\ X
IDFXOW\ ZLOO EHFR AM VQ R@Q HDUQ B@UYRDLQJ H@RQHQ W V DUH PDGH

2XU LQVXUDQFH SROLF\ LQFOXGHV WDLO FRYHUDJH IRU DFW
060 060 GRHV QRW SURYLGH SULRU DFWV FRYHUDJH WR F
HPSOR\PHQW ZLWK 060

)RU DGGLWLRQDO LQIRUPDWLRQ UHJDWKHG LOQHU DODORSI ULDFHWLFH