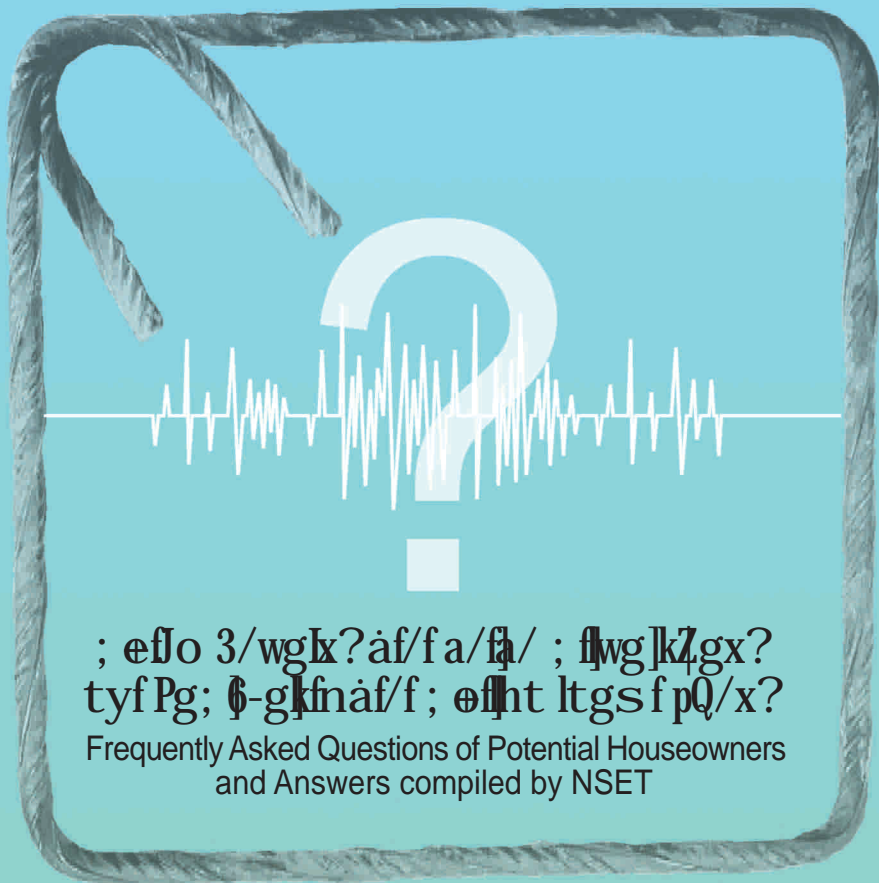


gofB/ agfpg rfxg?sf nflu

# eŠ Dk klt/fyL3/ lgdfØf ; DaGwL hfgsf/Lkl: tsf

(Booklet on Earthquake Resistant Building Construction  
for Potential Houseowners)



cdl/sL; xtof lgoŋ



eŠ Dk klt lw /fi6ø ; dñ-gkfn

January 2015

gofB/ agfng rfxg?sf nflu  
 ešDk kl/ fVL3/ lgdOf; DaGwLhfgs f/Lkl: tsf  
 (Booklet on Earthquake Resistant Building Construction  
 for Potential Houseowners)



nyg tyf; eŋg  
 ; b'gf/fof >17  
 /dž u/fu0f  
 lj ho j iof pkwfo  
 /fdrGb s Bn

; eŋg ; xfof  
 v8u ; g cfnL  
 ; dg kwfg

kg/fj nš g / ; emfj  
 lzj axfb/ kwgf.  
 cdh dlof bllft  
 zfgtbf; dfgGw/  
 >Lfd l; x a: gŋ

lrq tyf ufkns;  
 rGg Wjh /fgf du/

kyd ; ±s /)M 2009  
 lálto ; ±s /)M 2012  
 tfto ; ±s /)M 2015  
 !),)) kŋ

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kš fzg >fv nf - NSET-028-2009

lj ifo ; rL  
 kšSs yg !  
 ; fdGo hfgs f/L @  
 hUufs f|cj : yf (  
 3/s f|cfs f/-kš f/ !!  
 hu !#  
 uf/fj fnf 3/ !\$  
 lkn/j fnf 3/ !%  
 lgdOf ; fduL @!  
 lgod, lj lgod @@  
 3/s f|lshfOg @\$  
 kj nš /of s fo{ @^  
 uŋ ; Argfids j : tx? @\*  
 lgdOfs dŋ @(  
 ejg lgdOf ; ktf #)  
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of]; fduLcdl/sL; xfof lgoŋ (USAID/OFDA) sf|cŋy\$ ; xofidf  
 ešDk klj lw /fi6ø ; dfh-gkfn (NSET) af/f ; ~rflnt æšDklo  
 hllvd Joj : yk gdf ; fj hfgs lghL ; fmf/Lkj 4g sfoŋd (3PERM)/E  
 cGtuŋ tof / kšfzg ul/Psf|xf|.



## klšs yg

gkfn ešDklo hflvdsf]lx; fan]cToGt ; jhgZn Ifqdf kbš . lj utsf 7hf  
lj gfzsf/LešDkx?af6 kf7 l; Sb]lj kb hflvd Gols/Of Pj -kj {tof/Isf ofhg  
tyf sfo{mx?sf]cfj Zostfnf0{cfh ; dhsf x/\$ tx / tkšdf dx; ;  
ul/Psf]kf0G5 . ešDk cfkn]dfG5]dfhg t/ dfgj lgldf sdhf] ; Argf  
eTsBf 7hf]hgwgsf]Ifst xG5 eG]plQmf0{cfd; ft ub}gofB/ agfpg  
rfxg?sf nflu ; xofuLxf] eG]xth]of]kl:tsf tof/ kl/Psf]5 .

o; kl:tsdf lbOPsf sltko kZg Pj -tgsf pQ/x? cG :yfgdf /xšf cG  
kZg / pQ/sf hfšL; F ; dudf cQ/ ; DaGwt xg; Sg]xgfn]sxLdfq kZgsf  
pQ/x?sf cfw/df lgrš lgSofh u/xifg'jf tbg'; f/dfq lgdf0sf]sfofj og  
ug{pkoQmxš . kl:tsdf ePsf ; Dk0{kZg Pj -To; sf pQ/x? k9] dfq  
lgisifdf klxg cfux ul/G5 .

kl:tsdf ešDk kl/ fwl 3/ lgdofsf ; Gbedf af/Daf/ ; flwg]w}}; fern  
kZgx?nf0; dG]tyf ltgix?sf]; /n ; dfwg lbg]kof; ul/Psf]5 . t/ oxif  
lbOPsf pQ/ jf ; enj x?s}cfw/df dfq ešDk kl/ fwl lgdofsf]cjw/Ofdf  
sfofj og ; dt ug{; Sg]u/Lkf7sx? lgc0Mkg ; Dej xB; To; h]lgdf0s}  
sfofj ogsf]lgldQ bIf klj lws jf sdx?sf]; jf lngxg cg/fw 5 .

o; kšfzgnf0{cfudLlbgdf cemkl/dfhf u/Leng}kefj sf/Lagfpgsf  
nflu o; sf kf7s, kofustf{Pj -lj 1x? ; dt ; aš]tknš6 ; enj tyf  
l6k0ix? kkt xg]s/fdf ešDk klj lw /fi6 ; dh-gkfn cfzflG t 5 .



## ; fdfGo hfgsf/L

!= eOFfnflylg|cyjfeš Dk klt/fwL3/ (Earthquake-Resistant Building)  
 egš f|s |xl<

eOFfnflylg|3/ egšf|To:tf|3/ xflh; df eOFfnf\$|; dodf hgwgsl  
 ; /lff ; lglZrt xG . ; fg|ltgf|eOFfnf|df vf; }sXLklg gXgl|dWd  
 vnsf|eOFfnf|df xNsf lft xg|/ 7hf|eOFfnf|df rsg| nRsg|t/  
 uNof| und gn8g|3/ g}eš Dk klt/fwL3/ xfl. ; fw/Oftof 7hf  
 eOFfnf?df eš Dk klt/fwL3/ lfdtf gePsf 3/x? eTsGg\w|}  
 hgwgsl|lft xg hfG . t/ lj rf/ kVofP/ agPsf|v08df eOFfnf|df  
 3/x?df xg|lftnf0/\\$g jf sd ug{; lsG . sXLdxTj kOf{s/fx?df  
 lj zif Wfg lb0{agfPdf 7hf|eOFfnf|df klg 3/x? Ps}k6s uNof|und  
 e0{n8b}gg\ Jojxl/s s|xG eg|3/ To:tf|xf| \hf|s\_ kposf/L  
 eš Dkdf ; dt dfj dTof|sf|Of gagf| \3/df a? efts lft eflg'  
 lsg gk/f| \v\_ dWd eš Dksf|ysgn|3/df :yfglo kofzdf dd€ ug{  
 ; lsg|eGf a9xf lft gxf| \tyf 3f0t.\$|x| lj rf/ ug|cj:yf cf0kg{  
 ; Sg|/ :yfglo tj/df dd€ ; ef/ ug{; lsg|:t/sf|lft xg|3/nf0  
 eš Dk klt/fwL3/ elgG . o:tf 3/ eTsB dfgj lo lft xBj .

@= gkndf eOFfnflylg|3/ agfpg'ls g h?/L5 <

; #/df af/Daf/ eOFfnf|u0/xg|lfx? dWdf gkfn kb\$ . oxf; fgltgf  
 eOFfnf? jifGL xhf/f\$|; Vofdf u0/xg|tyf sXLj if\$|cG/ndf  
 dWd tyf 7hf|vnsf eOFfnf? hfg|u/\$f 5g\ gkfn tyf o; sf|  
 j|kl/sf|e"efu pQ/lt/sf|ltAj tlo eV08 Pj +bll0ft/sf|ef/tlo  
 eV08sf|; ldfgdf kb\$ . o:tf|; ldfgsf|e"efu kVj lleqsf|cftl/s  
 klqmfsf|sf|0n|ubf|lg/G/ ; lqm /x\$|xG / o:tf|lfx af/Daf/  
 eOFfnf|u0/xg|lfx xfl. xdf|0ltxf; nf0{xg|xf|eg|klg oxfHj utdf  
 7hf-7hf eOFfnf? k6s-k6s u0{w|}hgwgsl|lft ePsf|k0G .  
 lj =, #! ( ) ; fnsf|dxfeš Dk clg lj =, #@ \$% ; fnsf|eOFfnf|clxn|  
 klg xdf|:d|tdf tfh|/x\$| eš Dkx? xg\ oLeš Dkx?df gkfn|7hf|  
 lft Jojfg|k/\$f|lyof|/ oxfBf nfvf|hgtn|cT0t si6s/ hlg  
 eflgk/\$f|lyof|. eOFfnf|df xg|hgwgsl|g\$; fg|sf|dVo sf|Of xfdn|  
 agPsf|sdhf| 3/ jf efts ; Argf laug'jf eTsg'xf|. eOFfnf|cpg|



cjZoDefj LeP klg of]slxn] sxfF/ sq]cfp5 eg] 7f\$]f u/] eG  
; lsg]k4ltsf]lj sf; clxn] Dd klg xg ; s\$]f]5g .

To; h] eOfnfsf]lftaf6 aRg]dVo pkfo eg\$]f; /lft jf alnof]3/  
; Argfsf]lgdOf ug{xf]. lhGule/sf]sdf0af6 agfpg]3/ eOfnfsf]6  
ellsof]eg]; Dktsf]g\$; fg xg]t 5f5 ; fy}kl/jf/sf ; b:ox?sf]  
dt0; Dd klg eRg'kg]xg ; S5 . To; sf/Of xfd]h:tf]eS DkLo lx; fj n]  
; D]hgzn If]df eS Dk klt/fwL3/ agfpg'cToG h?/L5 .

#= eOfnfsf]kefj zGo (Earthquake Proof) 3/ eG]zAb klg af/Daf/  
kof]udf cfo/xG5, o; s]cy{s }xf< / eS Dk klt/fwL/ eS Dk kefj  
zGo 3/df s ]kms 5 <

xf] eOfnfsf]nflu alnof]3/ eG]; Gbedf eOfnfsf]kefj -zGo  
-Earthquake Proof\_ 3/ eG]zAb klg lgs}; lgG . eS Dk kefj -zGo  
3/ -Earthquake Proof Building\_ sf]cy{s}klg kl/df0sf]eOfnfsf]  
sg]klg lft ug{g; Sglu/Lagf0Psf]3/ eG]alern . t/ ; +f/el/  
hikg / cd]sh:tf dhs ; dt]df ch; Dd Pp6klg eS Dk kefj -zGo  
-Earthquake Proof\_ 3/ ag\$]f 5gg \ o:tf 3/ agfpg ; Dej klg 5g  
/ Jojxl/s ; dt xgg \ eOfnfsf]sdgn]3/ lsl-rt klg kef]jt  
gx] \ eG]rfxg /fg' : jfells dfgPtf klg Jojxl/s ?kdf xg]xf]  
eg]eOfnfsf]kefj zGo 3/ -cyjf cfj; lo 3/ lgdOf ug{; Dej xg  
/ Jojxl/s klg xg . o; sf]; \$df w}j i\$]cG/indf cfpgeOfnfsf]  
sx]L lft xg; Sg]t/ To; nf0{ddt ; w/ u/] a:g ; lsg]vnsf]3/  
agfpg' Jojxl/s xG5, o:tf] 3/nf0{ eS Dk klt/fwL 3/  
elG . o; h]eOfnfsf]kefj zGo 3/sf]; \$df eS Dk klt/fwL jf  
eOfnfsf]c; /nf0{y]g]3/ eG]zAbsf]kof] ug{a9LpkoQmxG .  
eOfnfsf]6 ; /lft 3/ eG]; Gbedf eOfnfsf]kefj zGo jf eOfnfsf]  
klmzAbsf]kof] unt xf]. t/ clt ; Dal]gzIn ; Argfx? h:t}cfo]j s  
eS Lcflb eg]eS Dk kefj zGo g}agfpg'kg]xG .

\$= eOfnfsf]klt/fwL3/n]slt /\$6/ : s h ; Dds f]eOfnfsf]y]g ; S5 <  
/\$6/ : s h (Richter Scale) eS Dksf]kl/df0f dfg ug{kof] ul/g]Ps  
Psf0 xf]/ xfdLaf/Daf/ /Bof]j f cGo ; r/ dfWdx?af6 kmfgf]7fpdf  
olt /\$6/ : s hsf]eOfnfsf]uof]eG]; Gfj. clg 3/sf]l8hf0gsf]



; Gede f klg of]3/n]olt /\$6/ :sh; Ddsf]eOFmf]wG ; S5 jf To] 3/n]plt /\$6/ :sh; Ddsf]ešDk wG ; S5 eG]klg lgs}kofu ePsf] kfOG . jf:tjdf /\$6/ :sh egšf]eOFmf]sf]s}l] G' h; nfo{ Olk; G/ (Epicenter) elG, df ešDk uPsf]ahf slt phf]g>t eof] jf slt zIQmg:Sof]eG]gfk x]. eOFmf]af6 olt zIQmg:Sof]j f olt /\$6/ :shsf]eOFmf]uof]eG' Pp6f s/f xft/ o; n]xfdLa; šf]hldg slt xlnof]eG]gfk ; fenyfx xbg . xfd]nflu jf xfd]3/sf]l8hfOgsf] nflu xfdLa; šf]hldg jf xfd]3/ ePsf]hldg slt xlnof]eG]s/f dxTj kOf{xG . xfdIn]rIn kfg]klg xfd]hldgsf]sDkgaf6 g}x]. sg}klg eOFmf]af6 xg]xfd]ghssf]hldgsf]sDkg \$ j6f dxTj kOf{ s/fx?df e/ kb5 . kxnf] eOFmf]slt 6f9f uof]j f eOFmf]sf]s}l] G' / xfdLa; šf]jupF; x/ alrsf]b/Lslt 5 eG]x]. eOFmf]6f9f ePdf To; sf]kefj xfdLa; šf]:yfg; Dd gcfOkG ; S5 jf cToG sd kefj dfq cfOkG ; S5 eg]glhsšf]eOFmf]ePdf ; fg}kl/dfOfsf]eP klg To; sf]kefj 7hf]xg; S5 . bf] f] eOFmf]sqf]lyof]eG]x]cyft, eOFmf]sf]/\$6/ :sh . hlt w]/\$6/ :shsf]eOFmf]uof] To; sf]kefj klg w]}xG . t/ 7hf]eOFmf]klg 6f9f uPdf o; sf]kefj sd kg{ ; S5 . t] f] eOFmf]sf]s}l] G' / xfd]Ifq alrsf]ršfgsf]agfj 6, kms-kms vnsf ršfgsf]agfj 6df eOFmf]sf]t/È kj fxt xg]t/sf / ult kms-kms xG . rfyf] xfdLa; šf]hldg jf df6šf]agfj 6 . sdhf] df6šf]afsnf]tx ePsf]:yfgdf eOFmf]sf]t/È a9Lkmg hfG jf To; sf]kefj a9g hfG . hals, ršfgsf]afsnf]tx jf 9È]hldg ePsf]7fpdf t/Èsf]kmfj 6 sd xg hfG . To; sf/Of slt /\$6/sf] eOFmf]eG]lalQs}xfd]hldg slt xlnof]eG]s/f yfx xbg .

dfly atfOP cg' f/, 3/sf]l8hfOgsf]lgldQ hldgsf]sDkg\dxTj kOf{xG cyft, hldgsf]; Deflj t ystQ jf sDkgnfO{3/n]s; /LyG ; S5 eG]xth]3/sf]l8hfOg ul/G . slt; Ddsf]j f sqf]sDkg; Dd yG ; Sg]u/L3/ agfpg]eG]s/f eOFmf]klt/ fvlL8hfOgdf lj rf/ ul/G g ls sqf]/\$6/ :sh . To; h]3/sf]l8hfOgdf slt /\$6/ :sh; Dd wG] eG]s/f ul/hg / o:tf]eG'unt xG . olb s; h]kmf]g]3/n]olt /\$6/ :sh ; Ddsf]eOFmf]wG eg] eGof]eg]xfdIn]; lhn}aeng'k5{ ls To; f]eG]JolQmfO{of t eOFmf]klt/ fvlL8hfOgsf]af/df sXL klg yfx 5g jf p; n]tkfO{xfdInfO{ešofpg vfh5 .



eš Dk klt/fvL18hf0gdf hg hldgsf]sDkg jf ysf0nf0lj rf/ ul/G,  
 Tof]eš Dksf]sDkg jf ysf0nf0{gfg]csf]Psf0 5- 06]G; 6Lgfk jf  
 d]8knf08 ds]AnL 06]G; 6Lgfk (Modified Mercalli Intensity Scale  
 MMI) . eš Dk klt/fvL18hf0gdf of]MMI gfk]sf]kof] ul/G . o; sf  
 nflu MMI gfk ! b]v !@ ; Ddsf]kl/df0sf]kof] ul/G . -MMI gfk]sf]  
 af/df lj :t] hfgsf/Isf]nflu NSET af6 kš]f]zt MMI ; DaGwLkf]6/  
 xg]f]nf . gk]nsf] ; Gede]f s/f ubf{eš Dk klt/fvL18hf0g eGfn]of]  
 MMI gk]df 06]G; 6L ( ; Ddsf]sDkg cfp]eOf]nf]f klg u]b]f\und\  
 gn8g]vf]nsf]3/ eG]aeng ; lsG . e0{fnf]klt/fvL3/sf]l8hf0gs}  
 ; Gede]f klj lws jf 0]Chgo/x?sf]lgldQ c6 Psf0x?sf]kof] ul/G,  
 hg ox]frrf]ul/Psf]5g .

%= eš Dk klt/fvL3/ eGfn]lkn/j fnf (Pillar System) 3/ g}agfpg'kg]  
 x]f]f, x]0g <

h?/L5g . xdf]f] ; d]f]df lkn/j fnf 3/ dfq eš Dk klt/fvLxg; S5 eG]  
 unt ; f]f0 lj sl; t x]b]uPsf]5 . lj rf/ k]b]f]P/ ; xLt/l]sf]n]agf]Psf]  
 v08df xfdLsx]f]k]xn]b]v g}rngdf /xš]f 0š]f, 9E]f jf sf7af6 aG]  
 3/ klg eš Dk klt/fvLxg ; S5 . slq]f, 808]sf]kof] gePsf, lkn/  
 g/fvLagš]f, 0š]f, sf7 0]f]f]bn]agš]f s0]f]3/, d7-d]6/ Pj -b/af/x?  
 ; of]j if{kf/ u/L, yk}eOf]nf]f? ef]b}clxn]; Dd klg /fd} f] kof]f]df  
 / cl:t]j df /xš]f yk}pb]f]x/0f]x? xfd]j]l/k/ b]Vg ; lsG . a? lj rf/  
 gu/L ; xLtl/sf]sf]p]kof] gu/Ll; d]6, 808Lkof] u/] agf0g]lkn/j fnf  
 3/x? klg eš Dksf]lx; fan]c]Tog}h]f]vd]k0f{xg]u/š]f]b]v]G . To; h]  
 sg ; fdul,jf sg kof]f]nLe0f klg s:tf]tl/sf]n]agf]pg]eG]s/f  
 dx]j k0f{xG . t/ eš Dknf0{lj rf/ u/] g}agf]Psf]lkn/j fnf 3/  
 eš Dknf0{lj rf/ u/] agf]Psf]uf/f]j fnf 3/e0f cln alnof]eg]xG .

^= 9! f, 0š]f jf Ans s f]uf/f]f agf0g]uf/f]j fnf 3/ klg eš Dk klt/fvLxg  
 ; S5 t<

cjZo, tl/sf ldn]P/ lgodk]š agf]Psf]v08df 9E]f, 0š]f jf Ans kof]f]  
 ul/Psf uf/f]j fnf 3/x? klg eš Dk klt/fvLxg ; S5g\

&= ; fd]Goto]f]eš Dk klt/fvL3/ agf]pg]lgs }dx]f]xG5 eG5g]Vg <

x]f] s]La9Lvr{t cjZo xG t/ wf]G}g; lsg]u/Lv]r]f]f]j dx]f]f]





eg]xfg . khfch ; fdf0 ?kdf e0Ffnf0lj r/ gu/Lagf0g]3/x?  
 ; f thgf ug]xf]eg]lkn/j fnf eš Dk klt/ fVL3/ agfpf %!) kltzt  
 ; Dd a9Lvr{ nfg ; S5 . t/ of]clt/Qmvrhf0{To; af6 klt ug{  
 ; lsg]e0Ffnf]f; /If; f thgf u/Lxg]xf]eg]of; fdf0 dfq clt/Qm  
 vr{xf]. lh0ulel/sf]sdf0af6 Ps k6s agfg]3/nf0{clnstf yk  
 a9Lvr{u/L; /IIf agfg]ls clnstf yk vr{hffpg]gdfdf c; /IIf  
 agfg]< of]xf]xftsf]s/f xf].

of]a9Lvr{; /rgfut vr{dfq xf]. sg}klj lwsf]x]kn] u/] jf ; fdf0  
 lx; fj df 3/ agfpf sg}efudf cgfj Zos ; fdul./x\$]tyf sg}cfj Zos  
 efudf ; fdul.cku ePsf]:yltnf0{7ls agfpdf e08}e08}pxLvrdf  
 eš Dk klt/ fVL3/ ag ; S5 . oLdflysf thgf 0{hgo/x?af/f ; fdf0  
 l8hf0g ul/Psf 3/x?df nfu'x5 t/ ljgf ; f0ts 1fg jf l8hf0g=nyhfyf  
 gu/Lxrj fsf]e/df ag\$ 3/x?df eg!)-!% kltzt a9Lvr{ nfg]  
 x5 .

\*= To; fleP uf/fj fnf 3/ klg eš Dk klt/ fVLxg ; S5 t <

xf] 1fg / lgod ldnfP/ agfPsf]v08df uf/fj fnf 3/x? klg eš Dk  
 klt/ fVLxg ; S5g\

( t/ xfd]dhs df @) \$% ; fns fle0Ffnf]clg kls : tfgdf ; g\@) %  
 s fle0Ffnf]t yk]uf/fj fnf 3/x? eTs / w]hgwgs f]lft eof]  
 lg <

xf] 7ls xf]. g]fns}@) \$% ; fnsfle0Ffnf]clg kls:tfgsf]; g\@) %  
 sf]e0Ffnf]j f o; If]sf c0 dhsx?df uPsf e0Ffnf]df ; dt yk]  
 uf/fj fnf 3/x? eTs / w]hgwgsf]lft eof]. o; f]xgdf ; l0{uf/fj fnf  
 3/x? ckn]f sdhf/ xg]ePsf]ge0{uf/fj fnf 3/x? agfpf w]juNL  
 sdhf]x? ul/g]x] ePsf]xf]. lj lwk] \$ t/sf ldnf0{agfOPsf uf/fj fnf  
 3/x? geTs\$ klg kz:t}pbfx/0x? 5g\ clxn]rngrNldf /x\$]  
 uf/fj fnf 3/ agfg]k4ltdf sXLvf; -vf; sdhf]x? /xg]u/\$f 5g,  
 h; sf]sf/0n]uf/fj fnf 3/x? w]}eTsg]u/\$f xg\

@) \$% ; fndf w]fgdf uf/fj fnf 3/x?s}j fxN0tf lyof]; fy}lkn/j fnf





3/x? klg ltgtfsf clxnšf] thgdf l j zif Wfg lbP/ agfpg] ul/Gof]. tYo s]klg xfl]eg]ljutdf uh/ft, kls: tfg / rlg h:tf dh'sx?df uPsf eOfnfšf] eTsšf]3/x?df lkn/j fnf 3/x?sf]; Wof klg sd 5g .

!)= uf/f] fnf 3/df; fdfGotofof xg]s dhf/lx? s ]s ]xg't < eš Dks f] ; dodf uf/f] fnf 3/x? s ; /LeTs G5g\

; fdfGotofof Muf/f] fnf 3/x?df lgdg kšf/sf sdhf/lx? /xg]u/šf 5g\ oLsdhf/lx?sf sf/Ofn]eOfnfšf]; dodf uf/f] fnf 3/x?sf]eTsg] kšof ; dš ; f-; f]lbOPsf]5 .

s\_ b0t/af6 cPsf b0(uf/f]x?sf] alrdf hfgk? /fd/Lgalfwg; h; sf]sf/Ofn]jubf{eOfnfšf] ; dodf sgfx?df uf/f]x? Psfk; af6 5lg yfN5g\ uf/f]šf sgfx?df 7f8f]lr/fx? b]vG5g\



b0(uf/f]x?sf]alrdf hfgk? /fd/LgalfwPs h]uf/šf s gdfk/š 7f8f]lr/f

kšf]; hGoMPg; š-gkfn, kls: tfg eOfnfšf] ) %

v\_ 3/sf]; Dk(uf/f]x?nf0(Ps) fy gp7f0{klxnf Pp6f uf/f]dfly kYofpg]clg dfq csf]uf/f] nufpg]ubf{b0(uf/f]alr]sf] hfgk[sdhf] xG . klnf]uf/f] nufp]bf b]EL 5šf] nufP klg gofuf/f]hšbf hšf0sf]; Dk( efudf l; dG d; nf /fd/L/Vg ; lsbg; To; h]jubf{o:tf] hfgk]eng sdhf] g] /xG .



%Ofns f]s gfa6f z? ePsf lr/fx?

kšf]; hGoMPg; š-gkfn

u\_ ; fdfGotofof Muf/f]f] /f]vg] %Ofn 9šf]sf sgfx? sdhf] xG5g\ o:tf sgfx?nf0(t] f]klš -lnGn÷l; n\_ n]alnof] gagfPsf]v08df eOfnfšf]; dodf oxlf]f6 lr/f z? xg yfN5 .

b]EL5šf] gofuf/f]hšbf hfgk[s dhf] xG5 kšf]; hGoMPg; š-gkfn





3\_ l8-kL; Ltx cyjf 3/sf]lknG  
 txdf k'3/e/sf]uf/fh0(h8g]  
 u/Ldhat aGwg kSLl8-kL; L  
 lad gxg' o:tf]kSLjf kGL  
 gxhV/ 3/sf]hu chstf  
 dfq klg w; Bf jf rNf  
 To; eGf dflysf]k'uf/fx?  
 eTsg]; Defj gf xG .

a\_ 9E]uf/fdf uf/f]f]aIrefudf  
 w}dfqdf; fgf; fgf 6qn9Ef  
 jf df6f]jf d; nfn]dfq eg  
 cyff; hnf]nfd]9Efn]uf/f]  
 aFwPsf]gxg' o:tf]uf/fdf  
 b0k]Ssf efux? ; lhn} F  
 5S5g\ uf/f]; lhn} F  
 n85 .

r\_ dflNnf]tnfsf]eOF(Floor)  
 agfpg kofh ul/g]blngx? Jff  
 5fgsf blngx? uf/f] F /fd/L  
 gaw; uf/f]?nf0(blngn]/fd/L  
 gawf uf/f]?nf0(dflayf6  
 s]n]klg glyr]h:tf]xg hfG  
 / uf/f]? ; lhn} F n85g\

dflpN]vt aFf? uf/f]fnf 3/x?df w]h; f]b]vg]sdhf]lx? xg\  
 oLafx\$ klg cG yk}sdhf]lx? xg; S5g\ o:tf sdhf]lx? x6f0\  
 uf/f]fnf 3/nf0(eS Dk klt/ f]Lagfpg]t/Isfx? kZg g+@ sf]pQ/df  
 lj:tf/df lbOPsf 5g\

!!= clg lkn/jfnf 3/df rfx eOFnf]f6 s: tf]sl; ds f]lft xg; Sb5  
 t<

lkn/jfnf 3/df klg eOFnf]sf]; dodf w}lft ePsf kZ:t pbfx/Ofx?  
 5g\ lkn/jfnf 3/df; fdGof xg]sdhf]lx? Pj -tgsf sf/Om]xg]  
 lftx? lgdg ksf/n]xg; Sb5g\



l8-kL; LaGwg gxh eTs \$ flcz  
 kofh; hGoMpg; G-gkin, kls: tfg eOFnf]e) %



s]Ldfg]f' fgePs f]xh uf/f]f]b0k]Ssf efux?  
 ; lhn} F 5S5g]fj: yf

kofh; hGoMpg; G-gkin



s\_ lkn/df l/Ex?sf]agf\$ Pj -ltgIx?sf]b/Lw/}6f9f-  
 6f9f xgfn]lkn/sf dVo 808Ix? ; lhn}afEg ; S5g\  
 / lkn/ krfg ; S5 .

lkn/df l/ · x?sf]b/Lw/}6f9f-6f9f xgfn]krf\$ f]  
 kln/ krf] ; fGoMEERI



v\_ lkn/df /fvg]dVo cyjf  
 7f8f]808Ix?sf]hff\$fo{  
 5ff]5ff]/fVf 808Ix?  
 ; lhn}krf]sg uO{lkn/  
 krfg ; S5g\  
 808Ix?sf]uFfO; xL7fVf / ; xL



u\_ lad-lkn/x?sf]hff]k  
 ; aebf ; DalhgZIn efu  
 xf]. lkn/ / lad ckrf]f alnof]  
 eP/dfq kb\$ . To; sf]k/f  
 ; kof]sf]nflu lkn/- ladsf]hff]k  
 clt alnof]xgk5{ t/ ; fdfGtof  
 o:tf]hff]k]jrf/ gkVf0 agfg]  
 rng 5, To; n]ubf]o:tf]hff]k?af6  
 g}3/ eTsg z? xG / k}3/  
 n8g ; S5 .

krf] ; fGoMPg; \$-gkfn, kls : tfg eOf]n]f%) %



lkn/-lad hff]k]s dhf] ePs]s f/Of e]Is Ps f]3/  
 krf] ; fGoMEERI

dfly elgPsf s'/fx? lkn/j fnf 3/df dVo ?kdf blvg]sdhf]Ix? xg\  
 oLebf afx\$ klg c6 yk}sdhf]Ix? xg ; Sb5g,ltgIx?sf]lj :t  
 rrf]oxful/Psf]5\$ . t/ lkn/j fnf 3/nfO{ešDk klt/ fWL agfgsf]  
 nflu ckgfg' kg]t/sfx?sf]af/df eg]lj :t ?kdf kZg g+@ blv  
 #@ ; Ddsf pQ/x?df rrf]ul/Psf 5g\  
 !@ eš Dk klt/ fWL3/ agfgsf]nflu dVo?kdf WfBg lbgk]s /fx? s ]  
 s ]xg\  
 ešDk klt/ fWL3/ agfgsf]lgldQ dVo ?kdf lgDg s'/fx?df WfBg lbg'  
 kb\$ .  
 s\_ hlüsf]5g\$  
 v\_ 3/sf]cfsf/, k\$ /, gfk gSzf  
 u\_ 3/sf]; e]lj t clwstd tnf ; Vof / To; sf cfw/df uf/f]fnf  
 jf lkn/j fnf k4ltsf]5g\$ .



- 3\_ tnf ; Vof cg; f/ uf/fj fnf eP uf/f]df]f0 / lkn/j fnf eP  
 lkn/sf ; fohsf]lgwf}Of .
- a\_ 3/sf]l8-kL; E nendf k'}3/nf0{aW]u/LkSLj f kGL.  
 r\_ uf/fj fnf 3/ eP Psfk; df /fd/Laf]Psf j f aGw lbOPsf  
 uf/f}?
- 5\_ lkn/ l; :6dsf]3/ eP ; DkOf{lkn/x?nf0{Psfk; df ladv]aW]  
 k4lt .
- h\_ dfl]Nf]tnfsf]eOf] f 5fgmf0{uf/f]j f lkn/÷ lad; f /fd/L  
 af]f].
- em 3/ agfpg kofu ul/g]; fdulx?sf]uOf:t/ Pj -dtglx?sf]plr t  
 dfqf tyf ld>Ofsf]kofu .
- oLdVo afx?nf0{uf/fj fnf / lkn/j fnf 3/ agfpg]t/Isfx?sf]lj :t}t  
 ?kdf cemki6afOPsf 5g\

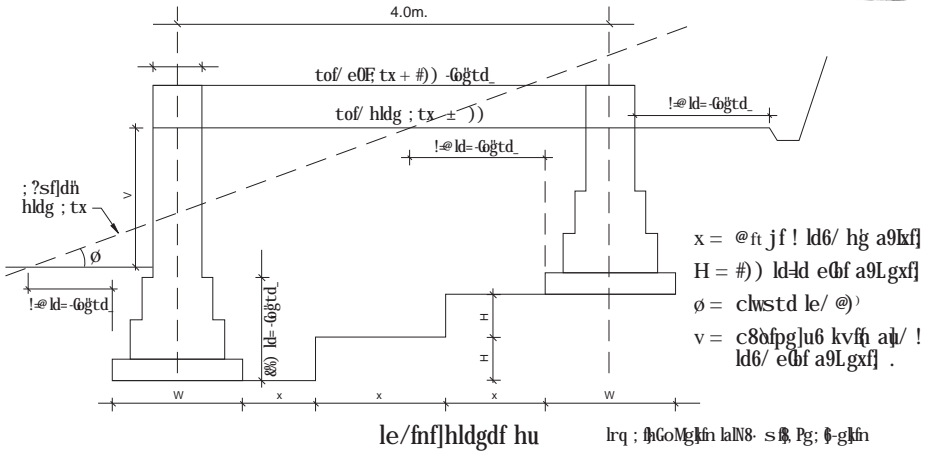
## hUufs f]cj : yf

- !#- s : tf]hUuf eš Dks f]lx; fan]; /Iift dfgG5 <  
 - ; dtn ldnšf]j f w}le/fnf]-7f8f]eL\_ gePsf].  
 - snldf6Lj f cG sdhf] df6f]ge0{s8f vfnsf]alnof] u} / j f  
 anf]df6f]QmhUuf .  
 - kfglsf]bnbn gePsf].  
 - k?j f df6f]ge0{v]nf]df6f]ePsf].  
 - gbLj f vf]hsf]lsgf/af6 6f9f

o:tf]vfn]hUuf eš Dksf]lx; fan]; /Iift dfgG5 .

- !\$- o: tf]; a}S /f ldnšf]hUuf kfg t lgs }dl: s n xG5 < s g}hUuf  
 le/fnf]k/š f/x\$ eg]To: tf]f; /Iift ls l; dn]3/ agfpg]s g}pkfo  
 5g <

xl] ; w}; a}7fpff o:tf]; a}S/f ldnšf]hUuf gkf0g ; S5 j f cf gf]  
 hUuf o:tf]ls l; dn]ldnšf]gxg ; Sb5 . o:tf]f s}L dxTj kOf{s/f  
 ljrf/ k}of/ j f s}L; w/ u/ / ; /Iift ls l; dn]3/ agfpg ; lsG5 .  
 h:tf]le/fnf]k/š f]hUufdf 3/ agfpg'kbk; j kyd t slt le/fnf]hldg  
 5 To]xg}h?/L5 . olb hldgsf]le/fnf]kg !M cyft ^ efu nDa0



xB ! efu eOf a9tf prf0 5 eg]To:tf]hldgdf 3/ gagfpg' /fd] xG . To; eOf sd le/fnf]g ePsf]hldgdf 3/ agfPbf eg]hldgnf0{ k'}/vf/] ; dtn agf0{3/ agfpg /fd]xG . k'}/vfg{g; Sg]cj:yfdf dlysf]lrqdf byfP adff]hd ug}; lsG .

!% = clg, k?jf df6]ePsf]hUufdf / ; knf]hldg ePs f]7fpdf s ]u/]/3/ ; /lft xG5 <

k?jf df6]ePsf]hUufdf 3/ agfpg' 5 eg]; s] Dd k/fgf]v]nf]hldg (Original Ground) eOf s]Ltn; Dds]ulx/f0sf]v]N8f]vgLTo; ; txd hu /Vg'a] xG5 . ; knf]hldgdf 3/ agfPbf klxn]hldgdf /x]sf] ; DkOf{kfgLkDk u/Lafx/ ^ofSL clgdfq hu vG' kb5 . hu vG] qrddf lg:sg]kfg]nf0{klg ; f; f}kDk ub}hfg'k5{ dlysf]bj}cj:yfdf husf]; txd k'}/3/sf]hunf0{Ps}l9Ssfdf afW]u/L; DkOf{husf] efudf hu 6f0{lad afW] cToG /fd]xG5 . o; f]ubf{husf]sg}efu blag uPdf klg hu 6f0{ladn}3/sf]hunf0{Ps}l9Ssf /fvL 3/df lr/fx? kgaf6 hf]ufpg ; S5 .

!^ = vnf]gbLs f]5]pdf 3/ agfPbf s'g]j zif s' /fd]Wofg lbgk5]ls <

; s] Dd vnf] jf gbLsf]lsgf/df gbLsf]axf]sf]w]}ghs 3/ agfpg' g}xG . ljleG :yfg jf gu/kfnsfx?df gbLsgf/af6 3/ agfpg kfg] :yfg; Dds]sd; \$d b/Lklxn]g]lgw{Of ul/Psf]xG5 . To:tf] Gogtd b/Lsf]kngf ug{k5 . o:tf]7fpdf 3/ agfPbf ; jkyd t gbldf cfp ; Sg]; Defj t af9Inf0{/Sg ; Sg]t6aGws]aGfa:t u/L



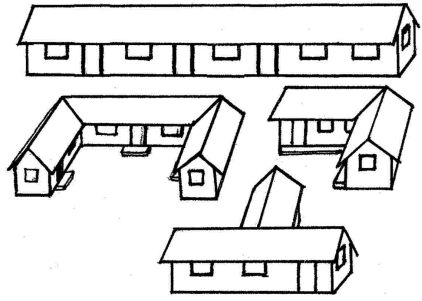
clg dfq 3/ agfpg' kbS . /, o:tf]:yfgdf klg 3/sf]hudf hu 6fO  
 lad agfPdf To; n]yk ; /If kbfg ubS .

### 3/ s f]cfs f/-k\$ f/

!&= s : tf]cfs f/ Pj -gfk gSzs f]3/ eS Dks f]lx; fan ]pQd xG5 <

; s] Dd lgoldt cfsf/, eGsf]  
 dtna cfofssf/, ju\$sf/ jf  
 ufhfs/ vnsf]3/ eS Dksf]lx; fjn]  
 pQd df]gG . lsgeg]clgoldt  
 cfsf/ ePsf]3/df eS Dksf]; dodf  
 sg}Ps lx:; fdf dfq a9tf / csf]  
 lx:; fdf ch sd hf\$sf]w\$sf nffg  
 ; Sg]xG5 / To:tf]a9Lw\$sf nfu\$]  
 lx:; faf6 3/ eTsg z? xG5 .  
 pbfx/Ofsf] lglDQ xfdIn] lkE  
 v]bfv]sf]cj:yfnfO]ng ; S5f-  
 olb lkE v]bf lksf\$]f]7ls airdf  
 ga; Lcnslt otptf a; ] v]bf]  
 eg]lkE afE]eO{dlrG5 / o; n]  
 lkEsf]Psf]t/sf]n67fdf a9tf an  
 kbS / csff/ sd, clg o; /La9L  
 an k/\$f]efult/sf]n67f rffB}  
 rB\$g ; S5 . o; }u/Lxfdf]3/df  
 klg clgdlot cfsf/ ePdf eS Dksf]  
 ; dodf st}a9L/ st}sd an kg{  
 hfG5 . o; f]xg'eGf 3/sf]; ajt/  
 Psgf; n]an kg{hfg' /fd]xf].

cfofssf/ 3/df klg nDafO /  
 rBfOsf]cgkft ; xLsl; dn]ldn\$]



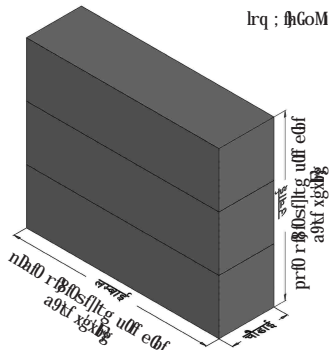
clgoldt cfsf/sf3/x?

lrq ; f]GoMpg; G-gkfn



ef/ c; Gthgs f]sf/Ofn]af: f]d]lrPs f]lk-

lrq ; f]GoMrrk



3/sf]nDafO, prfO tyf rBfOsf]cgkft

lrq ; f]GoMpg; G-gkfn





xgk5{ 3/sf]nDaf0 r{f0sf]bhf]f Psbd}nfd]ePd]f 3/ nDaf0t/af6  
n8g ; Sg]; Defj gf xG . 3/sf]nDaf0-r{f0sf]tIj uOffeGf a9Lxg'  
xG .

uf/fx? Pj -lkn/x? klg 3/sf]bj }lbzdf ; dfg ?kn]kg{u/Lsf]fx?sf]  
of]hg agfpg' kb5 . sg}efudf w}uf/f]j f lkn/x? tyf sg}csf]  
efudf sd uf/f]j f lkn/x? ePsf]cj :yf klg /fd]xG . o; n]klg  
3/df c; dfg lsl; dsf]wssf kg{hfG / sd uf/f]j f lkn/x? ePsf]  
efua6 3/ eTsg z? xG . 3/sf]bj }lbzftkn}DIdf tIj 6f uf/f]  
j f lkn/x?sf]nf0g kfg{kb5 tfs sg}Pp6f nf0gdf ePsf]uf/f]j f  
lkn/ eTsd]f klg aTsL b0{nf0gsf uf/f]j f lkn/n}3/nf0{eS]ksf]  
; dodf n8gaf6 arfpg ; sf] \ b0]6f dfq o:tf]nf0g ePsf]v08df  
Pp6f nf0gsf]sg}uf/f]j f lkn/ eTsgf; fy k'}3/ g}n8g]; Defj gf  
xG .

o; wL3/sf]prf0 tkn]klg lgoldt xg'kb5 . cyf \ tNf]tnfd] h:tf]  
lsl; dn]hx]Fhx]Fuf/f]j f lkn/x? /lvPsf 5g\ dlyNf]tnfd] klg  
ToxL ToxL :yfgdf uf/f]j f lkn/x? /fv' kb5, bfofFafofF; fg{  
xG . cfhefn dlyNf dlyNf tnfx?df w}eGf w}Sof]Gline/  
-6k jf kfh; g lgsfnLsf]fx? 7hf]agfpg]rng a9bf]5 . t/ o; /L  
Sof]Gline/ lgsfnLto; df uf/f]nufpg'; /lft xG . clg 3/df l8hf0g  
lgsfn]gsf]nflu :6k :6k agfpg]nuLdlysf tnfx? ; fgf; fgf]agfpg]  
rng klg 5 . o; f]ubf{3/sf]ahg sg}lx;; fdf a9L/ sg}lx;; fdf sd  
kg{hfG / Pp6f lx;; f sdhf] aG hfG . o; f]ug{klg /fd]xG .  
; fg]huf ePsf]7fpdf w}sf]fx? lgsfn]gsf]nflu w}tn| w}c]hf]  
3/ agfpg]klg rng 5 . t/ 3/ w}c]hf]klg agfpg'xG . ; fdf0tof  
3/sf]prf0r{f0sf]tIj uOff eGf a9tf xGxG .

!\* = clg cfhefn t clgoldt cfsf/ -T,L,H OtOfb\_ sf]3/ agfpg]rng  
lgs }a9bf]5, o: t]r]fx alnof]xG t <

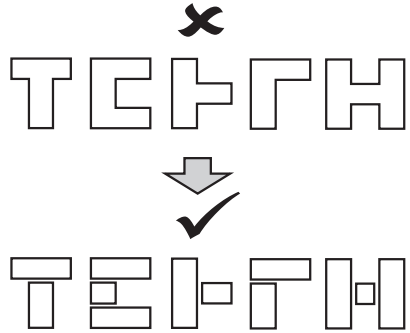
Dly klg lj :t] ?kdf elg; lsof]o:tf]clgoldt T,L,H OtOfb cfsf/sf]  
3/df eS]ksf]; dodf c]pg]wssf sg}efudf a9L/ sg}efudf sd  
xg u0{a9Lwssf kg]efu ; lhn}eTsg ; Sg]ePsf]h]o:tf]cfsf/sf]  
3/ alnof]xG . ; s] Dd o:tf]cfsf/sf]3/ agfpg'xG .





!(= s knš fLhUufs f]cfs f/s f]s f/Ofn lj f 3/s f]c] Zos tfs f]s f/Ofn]  
 o: t]clgoldt cfs f/s f]agfpg)kg]ePdf To; nfo{alnof]agfpg]s }L  
 pkfo 5 ls <

o: t]clgoldt cfsf/ gagfo{g]g]c] :yf k/š]v08df 3/sf]; Argfntfo{  
 v08 v08df ljeflht u/L lgoldt cfsf/sf] g] xg] u/L agfpg  
 ; lsG . h: t]r cfsf/sf]agfpg'  
 k/š]c] :ydf τ nfo{lrqdf byfP  
 h: t}u/L 6qfpg ; lsG . o; /L  
 6qfpgf eš xlf{3/ τ cfsf/s]  
 b]vG t/ ; Argfut ?kdf eg]  
 bfo{cnu-cnu cfoftsf/ aG  
 hfG hg eš Dklo k; fan]alnof]  
 cfsf/ xf]. To; u/L cG s }L  
 cfsf/x?nfo{lrqdf byfOP cg; f/  
 v08 v08df 5šfpg ; lsG .



clgoldt cfs f/nfo{v08 v08df 5šfP/ lgoldt agfpg ; lsG  
 lrq ; hGoMpg; gkfn

3/nfo{o; /Lv08x?df 56afpbf  
 bOf 6f v08sf]alrdf sDIdf  
 Pstnfsf]bfo{Grsf]lx; fa xgh/L  
 vhf efu (Gap) /fvgk5{. h: t]f]  
 3/ t]lgn]5 eg]bOf 6f v08  
 alrsf] vhfefudf ^ 0-r  
 xg' kbš / @ tn]3/ 5 eg]š  
 0-r . of]vhf efudf bfo{a]hf  
 a]h}v08x? eš Dksf]; dodf  
 c]kng} 9un] xlnnbfv]/ klg  
 Psk; df g7flsoğ eg] 5fl8Psf]  
 xf]. hueGf dflysf]efudf o; /L  
 vNhf efu 5fl]klg hu eg]; a}  
 v08 Ps]f; n] hf]8Psf] klg  
 agfpg ; lsG .



; u]hfl8P/ agfPs f3/x? eš DkdfxlnnbfPs c]k; df 7fl8SP/  
 ePs flift

k]f] ; hGoM Calteton University, Turkey Earthquake, 1999



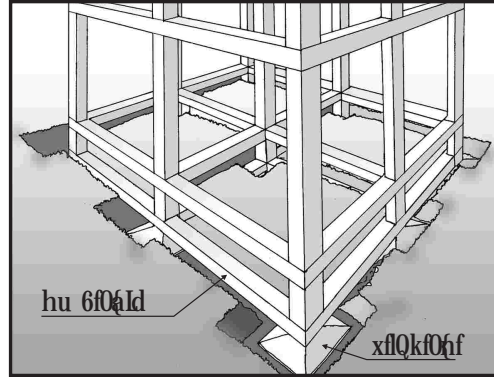
# hu

@) = 3/s f]hu agfpf s'g]j zif s'f  
 ykg'k5}ls <

Zfx/ ahf/df khf]cfh ag]3/x?df  
 ; fdfGtof uf/f] fnf 3/ eP hudf  
 ; aGOf tn lk-; -; = u/LTo; eGf  
 dfly 9Ef jf O6fsf]uf/f]nufO{hu  
 agfpg]rng 5 eg]lkn/j fnf 3/df  
 lk-; -; = u/LTo; dfly xfoQlkfOnf

(Footing) agfpg]rng 5 . t/  
 hudf g} ; DkOf{ uf/f]nfO{ jf  
 lkn/x?nfO{Psfk; df a]fwg]u/L  
 hu 6f0 lad /fv' eš Dklo lx; fan]

cToG /idf]xG . hudf /fv]6f0 lad lrqx?df b]fP h:t}u/Lagfpg  
 ; lsG . lkn/ l; :6dsf]nflu hu 6f0 lad agfpf eg]sDtdf ( 0-r  
 dff0 xgkb5 . uf/f] fnf 3/sf]nflu hu 6f0 lad agfpf o; sf]df0  
 # b]v ^ 0-r; Ddsf]agfpg ; lsG . lkn/ l; :6dsf]nflu 6f0 lad  
 agfpf eg]sDtdf ( 0-r dff0 xgkb5 .



hu 6f0 lad

lrq ; hGoMfg; g-gkn

@! = of]hus f]ladn]s ; /Ls fd u5}lg <

of]husf]ladn]eOfnfs]f]; dodf klg k'}3/nfO{hub]v Ps}l9Ssf  
 /fv/xg]sfid u5{. h; n]ubf{huaf6 xg]3/sf]lftnfO{/f]g o; n]  
 dx]kOf{sfid u5{. ; fdfG cj:yfdf husf]tnlt/ cf; gaf6 h]f]fpf  
 / 3/df lr/f kgaf6 arfpf .



## uf/ f] fnf 3/

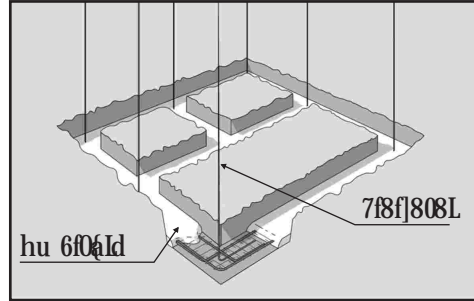
@- 0šfs f]uf/ f] fnf 3/ nfo( eš Dk klt/ fvl Lagfpg lj rf/ k'Yofpg' kg' j f ykg'  
 kg'ldVo s' /fx? s ]s ]xg<

0šfsf]uf/ f] fnf 3/ nfo( lgdg s' /fx?  
 Wfgdf /fvL eš Dk klt/ fvl agfpg  
 ; lsG .

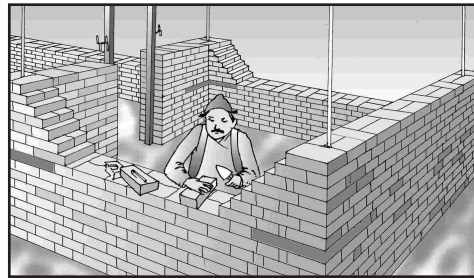
s\_ husf] agfj 6 lrqdf byfOP h: tf]  
 xg' kb5 . x/ \$ sf]7sf]sgfsgdf  
 7f8f]808L (Vertical Bar) husf]  
 6f0{ladaf6 p7fpg' kb5 .

v\_ l8-kL; E nēndf 6f0 lad (Tie  
 Beam) /Vg].

u\_ %ofn, 9fšfsf]: yfg / cfsf/ M  
 emfn / 9fšfx? 3/ sf]sgfaf6  
 sldtdf @ lk6 6f9f xgk5{ ; Dk0f  
 emfn tyf 9fšfx? sf]rf]f0sf]  
 hš uf/ f]fnDaf0sf]lgLzrt  
 kltztebf a9  
 xg'G . Pstn]3/df uf/ f]f]  
 nDaf0sf]%) Ü, b0 tndf \$) Ü,  
 / ltg tndf #) Ü ebf a9Lemfn  
 tyf 9fšfx? /Vg' xfg . pbfx/0sf]  
 nflu Pstn]3/ sf]sg}sf]7sf]  
 uf/ f]fnDaf0{! @ lk6 5 eg]Tof]  
 uf/ f]f] a9ldf ^ lk6; Ddsf]emfn  
 tyf 9fšf /Vg kf0G . To; df ^  
 lk6sf]Pp6f emfn cyjf # lk6sf]  
 emfn / # lk6sf]9fšf klg /Vg  
 ; lsG . t/ tlg tn]3/df ToxL  
 ! @ lk6sf]uf/ f]f] \$ lk6; Ddsf]  
 dfq emfn jf 9fšf /Vg  
 ; lsG .



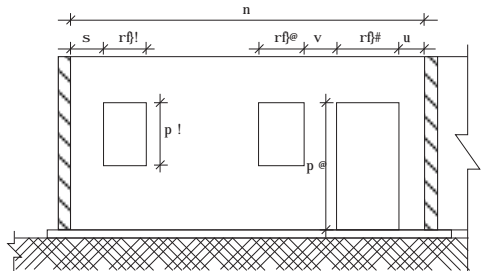
hu 6f0ld



uf/ f]fnufpg]; xlt/lsf

$$! = r\beta! \pm r\beta \oplus \pm r\beta \# < ) = S_n$$

$$\oplus = s\beta jf . x\beta jf . u\beta > \wedge ) k\beta =$$



b0tnf 3/ s f]emfn 9fšf sf]f: yfg

lrq ; hGoMpg; š gkn



eS Dk klt/ hLuf/ jfnf 3/  
 kuf; hGoMPg; g-gkn

- 3\_ dflf -s\_ df atfOP cg' f/ sgdf 7f8f] 808lsf]clt/Qmemfn-9f\$fsf]5p df klg 7f8f]808lx? /fv' kb\$ .
- 8\_ uf/ f\$ sgfx?df bOf/ af6 cPsf uf/ fx?nfO /fd/ LafwLr/ f kg{ j f n8g glbgsf]nflu sgf aGw l:6r (Stitch) lbg]. o:tf]sgf aGw lrqdf byfOP cg' f/ xgkb\$ .
- r\_ %ofnsf]dlgsf]; tx (Sill level) / %ofn 9f\$fsf]dflfysf]; tx (Lintel Level) df k'/ 3/el/sf]uf/ fx?nfO{afw]u/L t} f[k\$lx? (Sill Band and Lintel Band) lbg]. o:tf]

k\$lx?n]emfn-9f\$fsf sgfx?af6 z? xg ; Sg]lr/ fx?nfO{/ f\$5 / uf/ fx?nfO{leq jf afx/ n8gaf6 klg arpf\$ .

- 5\_ dflfNnf]tnfsf]eOfdlgsf]lgbfn jf 5fgfsf]lgbfnx?nfO{uf/ f] f /fd]u/ Lafw]. o: / Lafw]sf]nflu uf/ f]dflf t} f[k\$ lbO{To; af6 tf/ jf 808LgsmL lgbfnnfO{tf/ jf 808In]afw] ; lsG . ; fy} lgbfnx?nfO{sf/ sf]rsh lbO{uf/ f]af6 gkuf]sg]klg agfpg ; lsG .

h\_ rhLuf/ f]5 eg]rhLuf/ f]f klg t} f[k\$L/ fv' k5{.

emuf/ f]nufp]f b]EL 5f\$] nufpgsf]; \$df hfg]kfg]u/ \$f]cj : ydf vl8snf 5f\$]Lhfg]kfg]k5{.

`\_ d; nf (Æj f! \$Æsf]uf/ f]f l; d06 / afnj sf]efu !M / d; nfsf] df\$0 cfwf 0{r; Dd xgk5{.

@#=# clg 9: ]uf/ f\$ f]3/ agfpg l g <

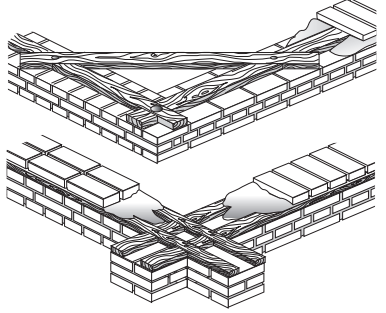
9E]uf/ f\$ f]3/ agfpg klg 0f\$sf]uf/ f] fnf 3/df ljrf/ ugkg]dVo s/ fx? g]ljrf/ ug]kb\$ . yk s/ f 9E]sf]uf/ f]f 7fpF]fp]f lrqdf byfP h:t} s]Ldfg]9E]f (Through stone) /fv' kb\$ . uf/ f\$ f]leqL efu jf alrsf]efudf ; fgf ; fgf 6qm 9E]fx? jf clws dfqdf df6f\$]kofu ug]x]f. Pp6] nfd]s]Ldfg]9E]f gkOPsf]v08df sf7sf]6qm jf 808lsf]xs agfO{ lrqdf byfOP h:tf]u/L klg /fv' ; lsG .



s]Ldfg]9E]f lrq; hGoMPg; g-gkn



808L; dG6 kf0g/7paf t slqrns ft] flkSL  
 jfl: 6r agfpg ; lhn; ls gjeof]t/ 808L  
 l; dG6 gkf0g/7paf o; s flj s Nk 5g <

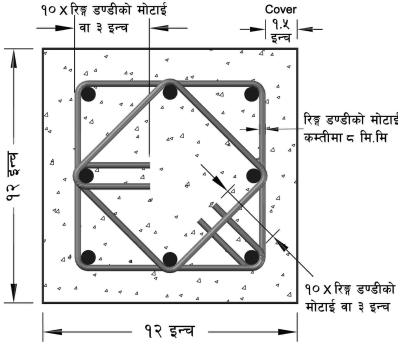


s7 j f aF's flj t g f aGw -l: 6r\_

808L l; dG6 gkf0g/7paf slqrns]t] fl  
 kSL jfl: 6rsf]; f6f]s7 j f aF's]koffh  
 lrqdf b'p h:t} u/L ug{ ; lsG5 .  
 xfdf k'fgf 3/x?df klq o:t]koffh ePsf]  
 kf0G5 .

lkn/j fnf 3/

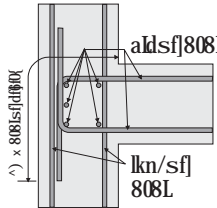
lkn/j fnf 3/ agf p f lj rf/ k'vofpgk]  
 s'fx? s]s]xg]v <



lkn/j fnf 3/ agf p f dVo oLs'fx?df  
 lj rf/ k'vofpg'k5M

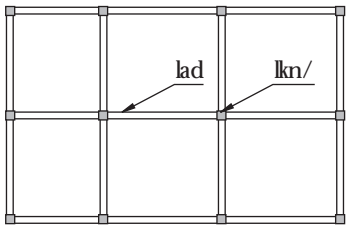
lkn/s fl808k? /fvgt/Isf

s\_ hudf xfQlkf0nsf]; txd f j f  
 To; ebf 7ls dly ; a)lkn/sf  
 xfQlkf0nf?nf0(hf8g]/Lk7g g#  
 @) sf]lrqdf h:t}u/Lhu 6f0{  
 lad /fvG].



lkn/df lads fl808k? uffgt/Isf

v\_ l8-k; = n;n hdlgsf]; txebf  
 s/la !-% k'nsf]prf0df /fvG].  
 l8-k; = n;ndf sDtIdf (Æ x (Æ  
 ; f0hsf]6f0{lad /fvG].



u\_ @ j f # tnf; Ddsf]3/sf]nflu  
 lkn/sf]; f0h sDtIdf !@ 0-r x  
 !@ 0-rsf]/fvG]. o:t]lkn/sf  
 808L? rfx !^ ld=d sf]S j 6f  
 / !@ ld=d= sf]S j 6f u/Lhd f  
 \* j 6f /fvG].

; lwf; lwf nlog (Grid) df lkn/x?

3\_ b0j 6f lkn/a]rsf]b/La9ldf \$-%  
 ld6/ -!% lkr6\_ ; Dd /fvG].

lrq ; fhGoMPg; f-gkfn

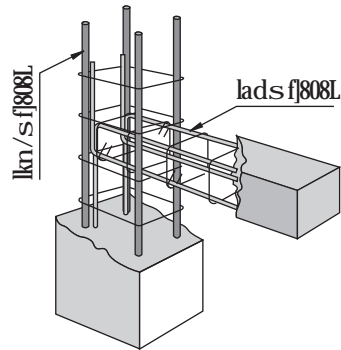


a\_ lkn/x? dflv lrqdf byfOP h:t}; lwf-; lwf nfOgdf (Grid) kg{  
u/L/fvg]. ; lwf nfOgdf gkf/Lotfptf kbf{To; af6 xg}krfObf  
sd xG / ešDksf]; dodf To; n}kəfj sf/L?kdf sfd ug{  
; Sbg .

r\_ lkn/ tyf ladsf 808lx? uffbf sldtdf 808lsf]df{f0sf(^) uOf  
vll6g]u/Luffg].

5\_ ; a}lkn/x?nfO{ladx?n}hf8g' k5{/ ladx?sf]hf8g]lkn/ ePsf]  
:yfgdf g}kfgk5{. lkn/ gePsf]7fpdf ladx?sf]hf8g]kfg{  
xhg .

h\_ lkn/sf]; f0h ladsf]; f0heGf  
sxl7hf]xgkb5 . tfls ladsf  
; lO{808lx?nfO{lkn/sf  
808lx?sf]leqkls kfg{; lsof] \



em ; a}lad / :Nofax?sf]9nfg  
Psk6sdf ug{/fd]xG .

Of xflQkfOnf, lkn/, lad / :Nofax?df  
d; nfsf]dfqf !N%N! l; dQ6, !-%  
afnj f / # lu6L\_j f ; f]eGf a9tf xg]  
u/Lagfpg' k5{.

aLds f808lx? lkn/s f808lx?  
leq /fvg]t/ls f  
hrq ; fGMPg; f-gkfn

6\_ d; ndf 7lSs dfqdf kfglsf]kəf] ug{kb5 . cgf]Zos a9L  
kfgLxfNf slqr6n]c]f]Zos dhatLk] ug{; Sbg . To; h]!  
af]f l; dQ6sf]d; nfnfO(@-#) ln= kfgLxfNgk5{.

7\_ ; s] Dd slqr6sf]9nfgsf]; dodf d; nf d5gsf]lgldQ lds; /  
tyf v8gsf]lgldQ ef0a\$/sf]kəf] ug{kb5 .

@^= lkn/df hlt w}808L/fvof]Tolt /fd]xf]<

xf]g, w}808lx? /fvdf lkn/ w}alnof]xG eG]xf]g . lkn/sf]; f0h  
cg'; f/ 7lSs dfqdf 808lx? /fv'kb5 .

@&= To; f]eP s lt 808L/fvg'l7s xfhf <

808lx? lkn/sf]; f0hsf]sDtdf) =\*Ü Ifqkm / a9ldf @%Ü Ifqkm; Dd  
dfq xfv' kb5 . 808La9Leof]eg]808ls}efun]lkn/sf ; a}7fpdf

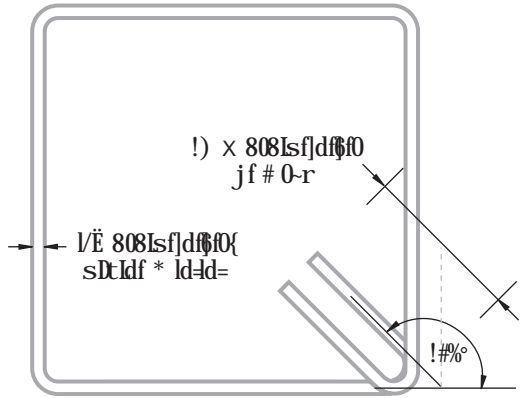




/fdff] F d; nf hfg g; Sg]xg ; S5 eg]808lx?sf]hfšf0{ePsf]7fpdff  
 w}]808Le0{sfd ug{klg ufxf]xg; S5 . To; h]lkn/ jf lad bādff  
 7Is dfqdf 808L/ fVg' kbš .

@\*= lkn/df l/· s flagff s: t]fxgk5{/ s lt b'ldf /fVgk5{<

lkn/ jf laddf dVo  
 808lnf0{afVg /fVg]l/šsf]  
 agf]6 lrqdf byfOP h:t]f]  
 xgkbš . cyft, l/šsf]  
 808lsf] 5px?nf0{ !#%  
 l8u]df dfšL leqkšL xš  
 (Hook) agfP/ /fVgkbš .  
 of]xsn]l/Enf0{kg slqdf  
 /fd/L; df]g]u/L/fv5 .  
 l/šsf]b'/L; fdfGtof ^  
 0Gr ebf 6f9f /fVg' xVg,  
 t/ lad; f]sf]hfg]k?sf]  
 5p5fpdf of]cemghIs  
 š 0-rdf /fVg'k5{ 808lsf]  
 hfšf0{ePsf]efudf klg š  
 0-rsf]b'/ldf /fVg' k5{.



l/· s flagff

lrq; hGoMpg; š-gkn

@(= l/· t 7f8]808lnf0{c8ofpgnf0{dfq /fVg]x]fg / < of]ls g olt w}]  
 afSnf]rxfof}<

x]fg, l/š]lkn/ tyf ladsf]dVo 808lx?nf0{c8ofpg]dfq ge0{o; n]  
 e0Fmf]sf]; dodf xg]s]kgdf lkn/sf]808lx?nf0{alnof]; F; dftL  
 knšg lbbg / lkn/nf0{knšg lbbg . o; sf]b'/L dff k7g g-@\* sf]  
 pQ/df elgP cg; f/s]xg]l/L/fVg' kbš .

#)= laddf l/· x? s; /L/fVg]lg <

lkn/; f]sf]hfg]kš sDldf @% lkn; Dd š 0-r / cG efudf ^ 0-rsf]  
 b'/ldf /fVg' k5{. ladsf]l/š klg lkn/sf]h:t]leqkšL xš agfpg'  
 kbš .





#!= b0fkn/s flairdf agf0g]uf/fx? t e0Ffntsf]; dodf; lhn}9Ng  
 ; S5g\o; nfo{alnof]agfpg'kb5 <

xf] e0Ffntsf]; dodf lad lkn/x?df  
 sXLgePsf]j f; fdf0 lft dfq  
 ePsf] cj:yfdf klg lkn/x?sf]  
 alrdf agf0g]uf/fx? eg]; lhn} f  
 n8sf pbfx/0fx? ljutsf  
 e0Ffntsf]df yk}blvPsf 5g\  
 o; f] xgfsf] dVo sf/Of o:tf  
 uf/fx?nf0{n8gaf6 arfpg]sg}  
 klg aGwg jf 6]f; fdf0tof g/flvg]  
 eP/ xf]. o:tf uf/fx?nf0[klg aGwg  
 lbg' h?/L xG5 . uf/fdf agf0g]  
 %ofnsf]tn / dflysf]; txdf kg]u/Lkn/; u}hdf8Psf]slqrnsf]t] f]  
 k\$L (Bands) lb0(uf/fx?nf0{alnof]agfpg ; lsG5 . o:tf]slqrnsf]k\$L  
 agfpgsf]nflu lkn/ agfpg]ahdf g}lkn/ leqaf6 hfg]h/Lt] f]f80Lsf]  
 a0f]a:t u/L/vg'kb5 . o; /L80Lsf]a0f]a:t ul/fg]ljleG t]/sf?  
 xg ; Sb5g\ h:tf]klxnf]t]/sf-lkn/df -kl5 nfd]t] f]f80L; f]sf]



aGwg jf 6]f gxbf lkn/x?s flairdf agf0g]uf/fx?  
 eTs \$f]cj: yf

kf]f; f]GoMPg; f-gkn



t] f]k\$L/vgsfnflu /flvPs f]t] f]f80Lx?

kf]f; f]GoMPg; f-gkn

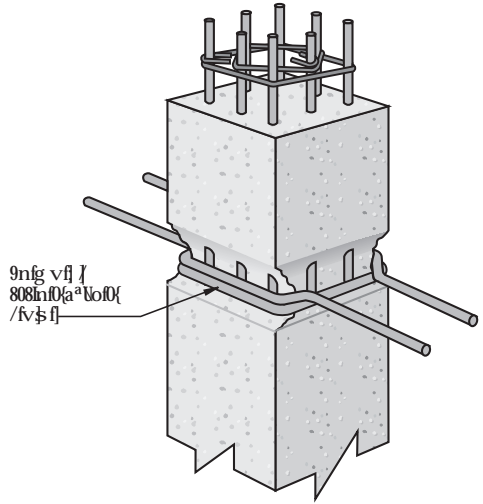


uf/fx?nf0{n8gaf6 arfpg]nflu /flvPs f]t] f]k\$L

kf]f; f]GoMPg; f-gkn



hšf0š]efu kl]u/L 5šf]t} f{  
 808L3'; fpg]clg To; nfo{ lkn/  
 9nfg ug{ahfdf lkn/sf]kndff  
 6ff g]u/L ašf0 /fv g] lkn/sf  
 9nfg ul/; s kl5 kndf{ vfh.šf]  
 lbgdf jf To; sf]sxl lbg kl5  
 To:tf]ašf0/fv.šf]808L lkn/df  
 clnslt vf] L; fšm] agfpg]/  
 kl5 To; šf uffL csf]t} f{808L  
 /fv g] t} f{kšL agfpg]. cyj f  
 o; sf]; šfdf lkn/ 9nfg e0; s kl5  
 l; n / lnGšsf]; txdf cltslt  
 9nfg vf] } 808L lrqdf b]fP  
 h:t}cfsf/df ašfP/ klg l; n  
 / lnGšsf]808L uff] agfpg  
 ; lsG .



9nfg ul/šs flkn/df]; n / lnGšsf]808L/fv g]t/sf

klšf]/ lrq; šGoMpg; š-gkn

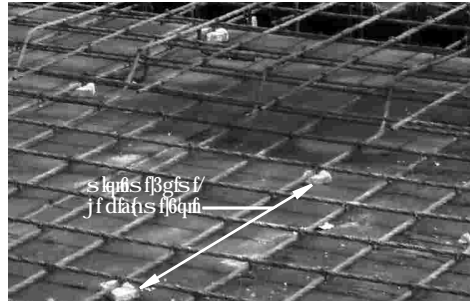
#@ 5t 9nfg (: Nofa-Slab) t ; ašGbf dxTj kof{x] o; s fl]gdof]df s ]  
 s' /fdf vofg lbg'h?/L5 <

5t 9nfg jf :Nofj 3/sf]dxTj kof{cu x] t/ ešDksf]lx; fan]of]g}  
 ; ašGbf dxTj kof{rff xfo g . ešDksf]; dodf cyj f ; fdfCo cj :yfdf  
 klg 3/; 3/leqsf aolQmPj +; fdfgx?sf]j hg :Nofa, lad xš]lkn/ jf  
 uf/fx?n]y]lg'kg{xG . clg ešDksf]; dodf cfp g]t} f{(Horizontal)  
 xNnf0fo{y]lg]t 3/df s]n uf/flj f lkn/x?n]g}x]. ešDko ; /Ifsf]  
 lx; fan]; ašGbf dxTj kof{efu lkn/jfnf 3/df lkn/ / uf/flfnf 3/df  
 uf/fx? xš v o:tf uf/flj f lkn/x?sf]lgdof]df cToG xfozof/Lckgfp g'  
 cfjZos xG . t/ o; fl eGšf kndf :Nofanf0{sdhf] agfpg]eG]  
 xfo g . o; nfo{klg 3/leq cfp g ; Sg]jhgnt0{wG ; Sg]u/L agfpg'  
 k5{. To; sf]nflu lgDg s/ix?df ljzif ljrf/ kšofpg' kbš .

s\_ :Nofj sf]dšf0 ; fdfCotof xdf]zx/ ahf/df rngrNldf /xšf 3/x?sf]  
 lgldQ sDtldf \$ 0-r xg' kbš . t/ lkn/ lad jf uf/fx?sf]b/Lw}]  
 ePdf :Nofasf]dšf0 ašfpg' kbš .



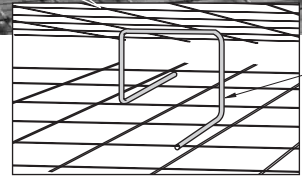
v\_ : Nofadf cgj Zos ?kdf cToGt  
 wj}808L/ fVg] rng 5 . sxIF  
 sxIfT !@ ld= d= sf]808L ^÷^  
 0-rdf klg /fv\$]f]b]vG5 . olt  
 wj}808L/ fVg'; fdfG 3/x?sf]  
 lgDt h?/Lgxg; S5 . ; fdfGtof  
 \* ld= d= sf]808L ^÷^ 0-rsf]  
 b'/ldf /fvf koGt xG5 .



: Nofas f808lx?

knf] ; GGoMPg; G-gkin

u\_ 808lsf]tnk\$LSdtdf !%  
 ld=d= slqnsf]efu (Cover)  
 /xg' cToGt cfj Zos xG5 .  
 o:tf]slqnsf]efu /xg]u/L  
 808L/ fVg' sXLufx]xg ; S5  
 . To; sf]nflu slqnsf]3gts/  
 (Cube) jf dfa'nsf]6qni  
 808lsf]tnk\$L/ fVg ; lsG5 .  
 dfy / tnk\$sf]808lx?sf]tx  
 56ofpg lrqdf b'fOP h:tf]  
 rP/ (Chair) /fVgk5{.



808ls f]b0(tx 56ofpg /fv\$] f]rP/

knf] / lrq ; GGoMPg; G-gkin

3\_ 808lx? /fVg]t/ sf dffysf]lrqdf b'fOP h:t}xgkb5 .  
 a\_ slqndf d; nfsf]efu !M%M eGf sDtLxgx]G . cyff \! efu  
 l; dG, !-% efu afnjf # efu lu\$L. 9nfgdf cToGt lunf]xg]L  
 wj}kfgL/ fVg' xG5 . ! af]f l; dGsf]d; nf agf]P ; dGtof  
 @) n6/ hlt kfgLcfj Zos kb5 . kfg]sf]dfq afnj fsf]lr; fkg,  
 d; nf agfpg]t/ sf / 7fp\$]cj:ydf e/ k5{ ; fdfGt, d; nfd  
 sfid ug{; lsg]/ d; nf galG]t/ lsm]kfgL/ fVgk5{.

r\_ 9nfg ubf]lad / :Nofa Ps} fy ug]kb5 / ; s] Dd vffysf]nflu  
 efGf/ sf]kofu ug]kb5 .

5\_ 9nfg ul/; skl5 sDtldf !S lbg; Dd /fd/ LkfgLk6fpg]j f Sof]E  
 (Curing) ul/; skl5 dfq kndf]v]G' k5{.



##= h: tfj f6l0ns f5fgf /Vbf j f s f7s fle0F/Vbf s js /fdf lj rf/ kvofpg' k5 lq <

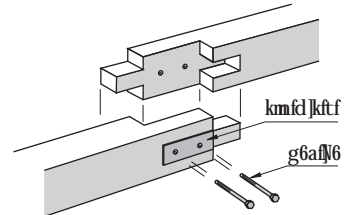
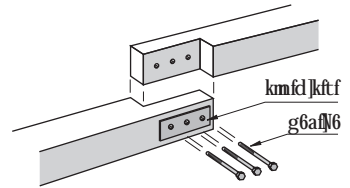
o: tf]5fgf agfpbf lgDg s/fx?df Wfg lbgk5{.

s\_ ; aē(6f klxn]t /fd/L; sšfj  
 (Seasoned) sf7dfq kofh ug{  
 k5{. sf7f]sf7sf]kofh ug{xhg}.

v\_ lgbfnsf]nflu kofh ul/g]sf7sf]; f0h  
 lgbfnsf]nDaf0 cg; f/ gnRsg]u/L  
 kofh xg' kb5 .

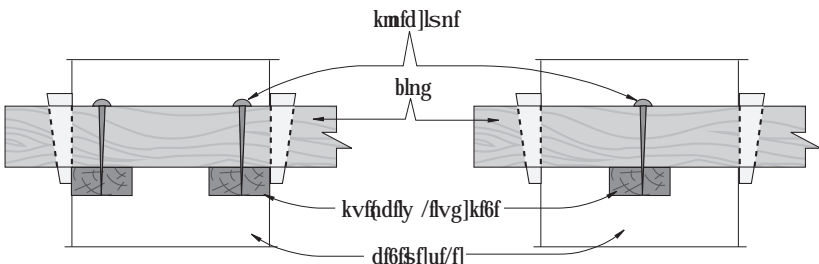
u\_ slxn\$ fL Pp6) nfd]sf7 gkfOPsf]  
 v08df b0]6f sf7 hf8L lgbfn agfpg'  
 kb5 . t/ o: tf]hf8L lgbfnsf]alr  
 efudf kfg{xhg}, 5 p5plt/sf]efudf  
 kfg{kb5 . sf7sf]hf8L lrqdf byfOP  
 h: tf]xg' k5{.

3\_ lgbfn jf Rafter x?nf0{uf/f0f /fd/L  
 hf8g' k5{. uf/f] f /fd/L hf8gsf]  
 nflu lgbfn tn kg]u/L uf/kSL jf  
 wall plate /fvkg5{. o: tf]uf/kSL k'}  
 uf/fx?df /Vg' k5{. uf/kSL/ lgbfnsf]  
 hf8f0 lrqdf byfOP h: tf]xgk5{.



sf7 hf8g]t/sfx?

lrq ; fGoMpg; g-gkfn



uf/f] uf/kSL/ lgbfnsf]hf8f0

lrq ; fGoMpg; g-gkfn



## lgdOf ; fdul/ lgdOf k4lts fjuOf: t/

#\$= ahf/df t lj leGg vfn/ gfdsf Of, luS, afnj f l; dC6, 808LPj -eGo lgdOf ; fdul? kOf5g \ ltgX?dW]c; n ; fduls g xleg] s ; /L yfxkfg] xfh < s g v; s DkgLjfvf ; ; fdul? s fl; knl/ ; ul/ Ps fl 5 ls <

xf] ahf/df lj leGg vfn/ gfdsf lgdOf ; fdul? kOf5g \ ltgX?dW] ; aCOf /fd] / pkoQmldfOf ; fduls] 5gf ug] lgZro g] s] 7g sfd xf]. ahf/df kOfg] ; DkOf ; fdul? s] af/ df NSET n] klg lj : t] cWog u/ LtgX?dW] kmfg] s] kgs] kmfg] ; fdul, g] ; aCOf pQd x] legL l; knl/ ; ug] sfo {u/ \$] 5g . t/ ox] s] L dx] kOf] lgdOf ; fdul? df xg' kg] s] LuOf? s] af/ df rrr {ul/ Ps] 5 h; sf cfw/ df ; xL lgdOf ; fdul, 5fg d2t klg 5 .

!\_ Of

- /fd/Lkfs, \$] Psgf; s] /ftf/ us] lrNnf]; tx ePs].
- lgoldt tyf Psgf; s] cfs/ / ; f0h ePs].
- bO {Of nO {7] bf kmfdd h: tf] ul-hg] cf] fh cfp].
- @\$ 306f kfgldf lehfp Of s] t] h] s] @%U eCf a9L ga9g]
- # lkn; Dd prfOaf6 v; fbf gkn].

@\_ l; dC6

- p] kbg u/ \$] @ dxgfeCf a9L; do gg3 \$].
- x] f gl5g] af] df kfs ul/ Ps] xsn] ] in gkf/ \$].
- ; Vf tyf x] f gl5g] 7] p] eOf/ Of ul/ Ps] cf] af6 h] uPs].
- c] z s j f kOf] kdf ghd \$]. 8Nf gk/ \$].

#\_ afnj f

- ; kn] bfgfb/, v; f] gb] s] afnj f .
- kn] f], h] s tyf c6 kb] y {gld; Ps].
- y] } dfq lr; f] kg ePs].
- hf ubf {df] tyf kn] ] sd ePs].
- afnj f /fd] 5 ls 5g eg] h] g] s] L; /n t/ Isfx? klg 5g, hg o; k\$ / 5gM

s\_ xftn] afnj f h] g] t/ IsfM

- ; kn] xftdf Ps d] L afnj f lng].
- b] } x] t] h] n] / u8g].



▫ afnj f gnflu xTshf ; km/x]; fdfotof Tof]afnj f /fd] dffG .

v\_ sffsf]lunf; df afnj f /fv] hff]t/IsfM

▫ sffsf]lunf; df ^) ld=ld= -@% 0-r\_ ; Svf afnj f eg].

▫ afnj feof @% ld=ld= -! 0-r\_ dffly ; Dd kfgLeg].

▫ Ps rDrf gg ld; fpg].

▫ Ps ldg ; Dd xNfpg].

▫ # 306f ; Dd lunf; nfo{gxNf0{/fv].

▫ afnj f dffly hdsf]dffh:tf]b]vg]kff]sf]tx gff].

▫ kff]sf]tx % ld=ld= eof a9Lxgxbg . kff]sf]tx % ld=ld= eof a9LePdf ; f]afnj f g/fdf]egLaemk5{.

\$\_ /ff-lu66L

▫ s8f ; km tyf cfsf/ ldn]f].

▫ ; lhn}glv0g].

▫ vlgh tyf cō t]j gld; Psf].

▫ ljleG ; fOhx? ldl; Psf].

% kmfd]808L

▫ lvof gnfu]f]

▫ a<sup>a</sup>vof]f gef]Rrg].

▫ k/}nDaf0df st}lr/f gk/]f].

▫ Ps]f; sf]dff]0 jf Jof; ePsf .

▫ t]sPsf]uOf:t/s] sLk]sf]5fk ePsf].

#% cffh ahf/df lj leGg vfn]lgdff; fduLx? eš Dk klt/fvLeg] krf/ k; f/df cPsf f]b]vG5 . h: t]Meš Dk klt/fvL808L, eš Dk klt/fvL l; dG6 0Tofb . s ]krf/x?df elgPh: t}tLlgdff; fduLx? eš Dk klt/fvLxG5g't <

xf]g, lgdff; fduL ckm]f eš Dk klt/fvLxg]jf g]g]eG]xbg . ; fduLx? t]/sf ldnf/ kof] u/]f]v08df eš Dk klt/fvLxg ; S5 eg] t]/sf gldn]f]v08df eš Dk lo lx; fan]h]vdk0f. h:tf]Pp6]kmfdsf] 808L /fd/L hf]f0[ku]f]v08df km]sbg eg]gku]f]v08df ; lhn} kff]sg ; S5 . To; h]o:tf krf/x? unt xg\





## lgod ÷ ljlgod

#^= uf/fj fnf 3/ j f lkn/j fnf 3/ slt tnf; Dd agfpbf eš Dkašf ; /Iift xG5 <

hLufs]agfj 6 tyf To; sf]ef/ axg Ifdtf, 3/sf]køfñ Otöflb ; DkOf s/fx? /fd/Lnyhfyf u/Lj:tē ?kdf l8hf0g u/LagfPdf lkn/j fnf 3/ w}tn]klg agfpg ; lsG . t/ uf/fj fnf 3/ rflxw}tnf agfpbf lgs}dxff]kg{hfG . To; h]uf/fj fnf 3/ # tnf; Dd dfq agfpbf ešDklo ; /Iff Pj +sknföt bj }kff ug{; lsG . To; df klg 9Efsf] uf/fj fnf 3/ @ tnf; Ddsf]dfq pkoQnxG5 .

#&= d/]hUufs flgk lgs } ; fgf]5, o: tf]hUufdf slt Ifqkmdf slt tNnf ; Dds f]3/ agfpg kfOG5 <

sqf]hLufdf, slt Ifqkmdf, slt tnf ; Ddsf]3/ agfpg kfOG5 eG] s/f 7fpHkR5]jf gu/kfnsf cg; f/ kmš kg{; Sg]s/f xf]. ljleG gu/kfnsfx?n]o; nfO}gu/ lj sf; ; DaGwLdfkb08 agfO]lgolQt u/šf xG5g \ t/ ešDklo lx; fan]s/f ug{xf]eg]hqf] s}hLufdf 3/ agfpbf klg dflj ljleG aBfx?df pNny ul/P cg; f/sf ešDklo ; /Iffsf lgodx?nfO}kngf ug{h?/LxG5 .

#\*= of]dfkb08 egš f]s ]xf]lg <

gkndf / ; #f/sf cG dh'sx?df klg zx/Lj sf; nfO}Jojl:yt ugšf] nflu zx/Lj sf; dfkb08 agfO}nfu"ug{rng 5 . h; nfO}5ffs/ldf dfkb08 dfq klg eG]ul/G5 . o:tf]dfkb08df zx/sf ljleG efudf af6fšf r]šfOx?, To:tf af6f?sf]5p5fpdf 3/ agfpbf 5f]g' kg]afbf] b]vsv]b/L (Setback), hLufs]Ifqkmcg; f/ 3/ agfpg kfOG]Ifqkm / tnf ; Vof, 3/sf]clwstd prfO, yk lj sf; sf nflu k;tflj t ul/Psf Ifq? Otöflb ; DaGwLdfkb08 (Standard) x? ; enfOPsf xG5g \ To:tf dfkb08x? jf kfj wfgx? zx/ jf gu/kfnsf cg; f/ kmš kmš xg ; S5g \ h:tf]sf7df08f}pkTosfsf]s/f ug{xf]eg]sf7df08f}tyf nntk/ gu/kfnsf Ifqsf]lgldt sf7df08f}pkTosf zx/Lj sf; dfkb08 eG] rngrNldf /xšf]5 . h; cg; f/ pbfx/Ofsf]lgldQ sf7df08f}ktnL; 8s Ifqdf \$ cfgfs]hLuf -!#^ (ju{kaf\_ df cfj f; lo ejg clwstd ! ) (%)





ju{krt6 -sh Ifqkmsf]\*) kltztdfq\_ el/ dfq agfpg kf0G eg]  
 tnf rfr # tn] Dddq . To:t}nlntk/sf]wkvfn Ifqdf \$ cdfg hũfdf  
 cfj; lo ejg clwstd (%\* ju{krt6 -sh Ifqkmsf)&) kltztdfq\_  
 Ifqkmdf / @ tnf; Dd agfpg kf0G .

; fdf0tof dffb08n]zx/ls/0f; F ; DalGwt lj ifox?nf0{dfq ; d0\$}f]  
 xG5 . eš Dklo ; /If; DaGwLk f j wfgx?nf0{eg]o; n]; d0\$}f]xG5 .

### 3/sf]l8hf0g

#(= 3/sf]l8hf0g eGgn]; lhnf]efiffdf s ; /La%og] < s : tf]vnsf]  
 klj lws nf0{3/sf]l8hf0g ug{nufpg} <

3/sf]l8hf0gdf dVotMb0]6f cux? /x\$}f xG5g\ klxnf] 3/nf0{  
 pkof]sf]lx; fan]pkoQmagfpg]l8hf0g cyft, lj leG kof]hgsf nflu  
 sf]fx?sf]cj:l:ylt, sf]fx?sf]; f0h, %ofn, 9f]sf]f]:yfg Pj +; f0h  
 0tofb . o:tf]l8hf0gn]3/nf0{; lj whgs agfpgsf]; fy}; G/ klg  
 agfpF . bf] f]l8hf0g xf] 3/sf]pkof]sf lx; fan]To; df cfpq ; Sg]  
 ; Deflj t jhg, hũfsf]ef/ axg lfdtf, eš Dk, xj fx/lsf]; dodf cfpq  
 ; Sg]ck]of]; t a9tf ef/ 0tofb]sf]lj rf/ u/L3/nf0{alnof]agfpg]  
 l8hf0g . olb0{l8hf0gx?dW]gk]nsf]rnrgrNtIsf]lx; fadf s/f ug]  
 xf]eg]klxnf]vnsf]l8hf0g cils6\$6 jf jf:tlj bx?n]ug]u/\$f 5g\  
 eg]bf] f]l8hf0g l; len 0lchlgo/x?n]ug]u/\$f 5g\ t/ ; fdf0vnsf  
 cfj; lo 3/x?sf]lgldQ eg]ba}vfn]l8hf0g Pp6}JolQm]ul/lbg]klg  
 k'rng 5 . cils6\$6n]klg ; Argfut l8hf0g / l; len 0lchlgo/n]klg  
 jf:t'l8hf0g ul/lbg]rng 5 t/ oLa]hf a]h]lj wsf]l8hf0gsf]lgldQ  
 ; DalGwt lj ifosf]lfg ePsf a]hf-a]h]lj 1 jf klj lwsx?4f/f l8hf0g  
 u/fpg'/fd]xG5 .

S) s ]; Dk0f3/x?nf0{dfly elgPcg; f/s }klj lws x?af6 l8hf0g u/fpg'  
 h?/L5 <

; DalGwt lj ifosf lj 1 jf klj lwsx?af6 l8hf0g u/fpg'/fd]xG]eP  
 klg ; a}:yfgx?df clg ; a}vfn]3/x?sf]lgldQ klj lwssf]; jf pknAw  
 gxx ; S5 . h:tf]x]d]gk]nsf sltko lhNfx?df:gu/k]nsfx?df lj 1,  
 klj lwsx? pknAw g]g/x\$}f]cj:yf klg 5 . o:tf]cj:yfdf pknAw



eP; Ddsf]/ cf'gf]uR5cg; f/sf]klj lwssf]; Nfx lng' /fdf]xG /  
o:tf]; Nfx ; Jf lnbf klj lwsn|ešDklo ; /IffoQm3/ l8hf0g / lgdff  
; DalGw tfind lnP, glnPsf]af/df ; lglZrt xg' eg]/fdf]xG . csf]  
s/f ešDklo ; /IffoQm3/ lgdff; DaGwL lj leG vfn]; /n kl:tsf,  
k\$zfzgx? klg kf0G5g\o:tf ; fdu]sf]pkofu ug{klg /fdf]xG .

\$! = s : tf]vfnf f]l8hf0gs f]nflu s : tf]klj lws sf]; Nnfx / ; Jf lng'  
/fdf]xGf<

3/sf sf7fx?sf]agfj 6, ; fh; Hhf jf ; G/tf; F ; DalGw l8hf0gsf]  
lgldQ cfs6\$6 -jf 0lGhgo/ jf cfe/l; o/\_ tyf 3/sf]; Argfut,  
dhatL; DaGwLl8hf0gsf]lgldQ l; len 0l-hlgo/ jf ; Argf 0l-hlgo/  
-jf cfe/l; o/\_ sf]; Nnfx / ; Jf lng' /fdf]xG . ešDklo ; /IffoQm  
3/sf]l8hf0g / lgdff; DaGwL tfind lnPsf]klj lws xg' eng}/fdf]  
xG .

\$@ = clg klj lws /fvLl8hf0g u/fpbf t lgs }dxEif]kg{hfG5 lg <

eš xlf{vlr}f]nflu]klg klj lws /fvLl8hf0g / lgdff sfo{ubf{  
klj lwsx?n]; Dk0{klf?sf]lj rf/ u/Lcgfj Zos vr?nf0{s6f}Lug{  
d2t klg ug{xlf cGt}f]f w}vr{xhg . klf ešDklo ; /Iffsf ; Dk0{  
klf?df klg klj lwsx?n]lj rf/ ug{xlf klj lws /fvLl8hf0g u/fpbf  
pQd xG . clg cfhefn gu/kfnsfx?df klj lwsx?af6 a9LeGf a9L  
; Nnfx / ; Jf lng]k4ltsf]lj sf; ub}nluof]eg]klj lwsx?s}klg Ifdtf  
clej4 ugdf / hj fkm]xtf a9fpgdf klg 7hf]d2t ldN5 .

\$# = xdf]ufpB/lt/ 9: f, df6]s f7af6 aGg]3/x?nf0{klg eš Dka6 ; /Ift  
agfpgs f]lgldt klj lws af6 g}l8hf0g u/f0g'h?/L5 t <

; s} Dd o:tf 3/x?nf0{klg klj lwsx?af6 g}l8hf0g u/fpg' /fdf]  
xf]. t/ oL; fdu]x?af6 xdf]ufpB/lt/ aGg]3/x?nf0{ešDk klt/fvL  
agfpg]bIftf ePsf klj lwsx?sf]; Vof cToG Gog ePsf]xgfn]o:tf]  
klj lwssf]; Jf lng'; Dej gxg ; S5 . o:tf]klj lwssf]pknAwtf xg  
g; s\$]cj:yfdf ešDklo ; /IffoQmlgdff; DaGwL ; /n kl:tsf Pj +  
k\$zfzgx? klg pkofu ug{; lsG5 . o:tf]klj lwdf 3/ agfpg]u/\$f  
k/fgf bIf lgdffsdK?sf]; xof]af6 klg ešDk klt/fvL3/ lgdff xg  
; Sb5 .



SS= dn|d|f|3/s fl|8hf0g Ps hgf klj lws af6 u/f0/xš f|5'. ca d|f|  
 3/s fl|8hf0g eš Dk klt/fwL9+af6 eP gePsf|s; /LhfGg; S5' <  
 3/sf|l8hf0g eš Dk klt/fwL9+af6 ePsf|5 jf 5g egLhf0g tkf0{  
 tn lbPsf sXLdxTj k0{s/fx? xg}; Sg'xG5 .

s\_ lkn/j fnf 3/ eP -

- lkn/x? ; f0h; f0h n f0gx?df 5g ls 5gg \ 5gg \ eg|To:tf|  
 3/ /fd|xf|g . nf0gdf gePsf t/ cgfj Zos w}}lkn/x? xbf  
 3/ eš Dk klt/fwLxg|xf0g .
- lkn/sf|; f0h !@Ex !@E0-r e0f; fg|xg|xf|g .
- 3/ sDtldf tlgj 6f lkn/sf|nf0gdf xgkb5 .
- dflyNf|tnfsf lkn/x? tNf|tnfsf|lkn/x? dfly g}xgk5{  
 cyjf lkn/x? tnb|v dfly; Dd Psgf; sf|xgkb5 .

v\_ uf/f| fnf 3/ eP -

- %ofnsf|dlg / dflysf|; txdf ; a}uf/fx?nf0{aWj|L t} ff  
 k\$|sf|Joj :yf xgk5{.
- %ofn, 9f\$fsf 5p|df 7f8f|808lx?sf|Joj :yf xgk5{.

o; sf clt|Qmo; }kl:tsfsf|cl3Nnf v08x?df lj :t| ?kdf j 0fg  
 ul/Psf|s/fx? klg Wfg lbg'kb5 .

S%=- dnf0{t klj lws n|eš Dk klt/fwL3/ lgs }dxE|fxg hfG5 eG5g \  
 lg <

To; f|xf0g, eš Dk klt/fwL3/ agfpg'wfG}g; lsg|u/LdxE|xf|g, t/  
 yk sXLvr{t cjZo nf5 . tkf0hf0{; Nfx lbg|klj lwsnf0{g}klg  
 eš Dk klt/fwL 3/ lgdf0f; DaGwL w}} hfgsf/lx? gePsf| xg  
 ; Sb5 .

S^=- dnf0{t klj lws n|uf/f| fnf 3/ eš Dk klt/fwLaGg ; Sb5 eG5g \  
 lg <

of|klg ; To xf0g, t|/sf ldnf0{agfPsf|v08df uf/f| fnf 3/ klg eš Dk  
 y|g|xg ; S5 . uf/f| fnf 3/nf0{eš Dk klt/fwLagfpg|lj ifo ; fdf0tof  
 xdf|lqsf|0l-hlgol/E lzlfdf gk9f0g|ePsf|klg To:tf|; ff0 ePsf|



xg ; Sb5, t/ uf/fj fnf 3/nf0{eš Dk klt/fwL agfpg}k4lt, 1fg / ; lk  
gePsf xgg\5g\

## kj nIs /Of s fo{

\$&= goFaGg]3/nf0{t w}j s /fx? lj rf/ u/} eš Dk klt/fwL agfpg ; ls Bf]  
/x\$ . t/ kxn]g}ag\$ f]k/fgf]3/nf0{klg dd{ ; wf/ u/} eš Dk  
klt/fwL agfpg ; ls G5 ls <

; lsG, kxn]g}ag\$ f] eš Dk klt/fwL Ifdtf g/x\$ f]3/nf0{klg dd{  
; wf/ u/Leš Dk klt/fwL agfpg ; lsG . o:tf]k/fgf]3/nf0{eš Dk  
klt/fwL agfpg]sfo{nf0{eš Dklo kj nIs/Of (Earthquake Retrofitting)  
elgG . xfd]dhsdf klg sf7df08f]pkTosf nufot lj leG efudf yk}  
lj Bfno ej gx?nf0{eš Dklo kj nIs/Of u/Leš Dka6 ; /lft agfOPsf]  
5 . yk}JolQm?n]cf gf]lghL 3/nf0{klg o:tf]kj nIs/Of ug{ePsf]  
5 . lj Zj sf c6 dhsdf klg lghL3/ Pj ; fj h]gs ej gx?sf]kj nIs/Of  
ug{k4lt 5 .

\$\*= h: tf] s }s dhf] j f h]of]3/nf0{klg dd{ / ; wf/ u/}eš Dklo  
kj nIs /Of ug{; ls G5 <

c; fW} sdhf] j f h]of]3/nf0{eš Dklo kj nIs/Of ug{g; lsg]  
xg; S5 . ; fdf6 cj:ydf /x\$ f 3/x?nf0{kj nIs/Of ug{; lsG . o: sf]  
nflu lj :t{ ?kdf 3/sf]; j ]f0f Pj -eš Dklo h]vd ny]h]f/ ul/; s]k15  
dfq 3/ kj nIs/Of ug{; lsg]vfnsf]xf]jf xfoG eG]yxf kfpG  
; lsG .

\$ (= clg of]s lt vlr{f]xG5 lg <

; fdf6tof gofB/ agfpg n]f]g]vr{f]#) Ü ; Dd vr{n]f]g]eof]eg]  
eš Dklo kj nIs/Ofnf0{pkoQmelgG, o; ebf a9Lvr{n]f]g]eof]eg]  
k/fgf]3/nf0{eTsfo{gofFagfpg'g}al4dfgL xG5 . lsgeg]gofFaGg]  
3/df eš Dk klt/fwL cux? ; xhtk]\$ sd vr{f] /fg ; lsG eg]  
To; sf]eš Dk klt/fws Ifdtf klg a9L kefj sf/L xG5 . t/ sg}  
sg}cToG P]txf]; s Pj -k/ft]f]s dx]j sf]ej g jf ; Argf 5 eg]  
To:tf]; Argfnf0{sxn\$fx]f]hlt; s}vr{nfu]klg kj nIs/Of ug{h?/L  
xg; S5 .



%)= o; s]nflu s : tf]klj lws j f s] Ē ; Nnf lng<

ešDklo kjnls/Ofsf]lgldt cgej kft ; Argf Ol-hlgo/ (Structural Engineer) cyjf ešDk Ol-hlgo/sf]; jf / ; Nnf lng' kb5 .

u} ; Argfids j : tx?

%!= ctheñ 3/df 7hf-7hf lzzfs f%ofn /fVg]rng 5, o: tf]lzzfn]  
 eš Dks f]; dodf eng 7hf]lft ubg / <

7ls xf]. o:tf lzzfx? ešDksf]; dodf kb] ufñL56h:tf]u/LpRr  
 j]df pl5]sg]ePsf]To:tf pl5]Psf 6qfx?n]df5h0{7x}/kfg{klg  
 ; S5 . To; h]7hf-7hf lzzfsf %ofnx? /fVg' ešDklo lx; fan]a9tf  
 hf]vdk0{df]g5 .

%@= %ofnsf lzzfn0; /lft agfpg]s g]pkfo 5 ls <

o:tf lzzfx?nf0; /lft agfpgsf]nflu ctheñ ahf/df lj leG vfn]  
 knli6ssf kf/bz]kqx? (Lamination) kfoG5 . o:tf kqx? zlzfsf  
 emfnx?df 6ff]df lzzf kd6xfn\$]v08df klg ufñLh:tf]pl5]P/  
 dfg; nf0{nfga6 arfp5 .

%#= khfçh lahns f]tf/nf03/s f]uf/f]f lad, lkn/leq]af6 ns fpg]u/L  
 j fol/ . (Concealed Wiring) ug]rng rln/x\$]f]5 < of]eš Dklo  
 ; /lfs f]lx; fan]7ls xf<

ctheñ uf/f]f lad, lkn/ leq]nsfP/ ul/g]j fol/Ē (Concealed Wiring)  
 sf]rng Psbd}a9bf]5 . of]j:f]tjdf ešDklo lx; fan]dfq}xg] ls  
 ; fdfo cj:yfs]nflu klg ; /lft dfgb} . Ps t lad, lkn/ jf uf/f]  
 leqa6 df]f-df]f kf0kx? /fvLj fol/Ē ubf{lardf v]q]k}x]f] tL  
 ; Argfx? koft alnof aG ; Sbg} \ cs]f/ ešDksf]; dodf 3/df  
 ; fdfo lr/fx? k/Lj fol/Ē kf0kx? kn]sf]cj:yfd lahnsf]s/06 c6  
 ; Argfx?df hf]8g u0; 6; ls6 (Short Circuit) xg]; Defj gf klw  
 xG . To; h]ešDklo hf]vdsf]lx; fan]lad, lkn/, uf/leq nsf0[ul/g]  
 j fol/Ē (Concealed wiring) eGf afx/af6 b]vg]u/L ul/g]j fol/Ē  
 (Surface Wiring) cjZo pkoQmxG5 .



## lgdf; s dK

%\$= s : tf]lgdf; s dK 8s dKj f 7\$ hf/nf03/ agfpg nufPdf eš Dk  
klt/fwLagfpg ; lhnfxG5 <

ešDk klt/fwLejg lgdf; DaGwL tfind lnPsf]lgdf;sdK 8sdKj f  
7\$hf/nf03/ agfpg nufPdf ešDk klt/fwL agfpg ; lhnfxG5 .  
lxhf;fh gkfn ; /sf/ cGtu; zx/Lj sf; tyf ejg lgdf; ljefu,  
gu/kfnsfx? Pj +ešDk klj lw /fi6; ; dfh-gkfn (NSET) nufotsf  
lgsfo Pj +; ; yfx?n]lj leG gu/kfnsfx?df ešDk klt/fwLejg lgdf;  
; DaGwL8sdK(Pj +7\$hf/x?sf]tfind ; ~rfng ug[ul//xšf 5g\ o:tf  
sfoqndx?af6 tfind kfPsf lgdf;sdK ePdf /fd]xG5 . t/ o:tf]tfind  
kkt lgdf;sdK gePsf]cj:yfdf klg o; kl:tsdf lbOPsf dVo  
s/fx?nf0{ cfkn] uxgtk] š dgg u/L To; dtlj s sfd ug{  
lgdf;sdK?nf0{kf; fxt ug{; sš]v08df ešDk klt/fwLlgdf; sfo{  
ug{; lsG .

%\$= tfind kkt 8s dK f]v]hLs ; /Lug]j f 8s dK tfind kkt xfx0g  
s ; /Lyxf kfg} <

tfind kkt 8sdKsf]v]hLsf]nflu ejg ljefu, ešDk klj lw /fi6;  
; dfh-gkfn jf gu/kfnsfsf sfof;ox?; F ; Dks{u/L ; xofu lng  
; SgxG5 . To:t}xfn s]Lgu/kfnsfx?df tfind kkt 8sdK?n]ešDk  
klt/fwLlgdf; DaGwL tfind kkt 8sdK; dx?sf]u7g u/LJo]l:yt  
lsl; dn]sfd ug{klqmf z? u/\$f 5g\ To:tf]; dx?; F ; Dks{u/L  
ltgIx?af6 klg ; xofu lng ; lsG .

8sdK tfind kkt xf]j f x0g, yxf kfgsf]nflu pgIx?; F 8sdK  
tfindsf]kdof kq 5 ls 5g ; fw; SgxG5 / cfj Zos k/df To:tf]  
kdof-kq xgš]nflu klg df;g; SgxG5 . t/ o; eGf klg dxTj k0f{  
tk0f]sfd lhDdf lbg v]gePsf]8sdKj f 7\$hf/n]kkn]lgdf; u/\$f]  
3/sf]lg/If0f u/L To]f]3/df ešDk klt/fwLcux? eP gePsf] ešDk  
klt/fwLcEx? /flvPsf]eP ltgIx?sf]lj ifodf lj :tf/df pgIx?; F s/f  
u/L; lgZrt xg; SgxG5 .



## ejg lgdfQf ; kxtf

%^= oLdfly elgPsf ; a}S /fx? cToGt dxTj kOf5g\ tLdW}S xLcToGt  
 klj lws klf klg 5g\ xfdlh: tfj; fdfGo JolQm klg a%g} efiiddf s xL  
 ; /n kl: tsf jfkš fZgx? 5gg\

eŠ Dk klj lw /fi6e ; dfh-gkfn (NSET), ZX/Lj sf; tyf ejg lgdfQf  
 ljeFu / s xL gu/kfnsfn]3/-wgIx?sfj; lhnšf nflu eŠ Dk klt/fvL  
 lgdfQf; DaGwL; /n kl: tsfx? kš flzt u/šf 5g\ To:t} gkfnslcf g}  
 ejg lgdfQf ; kxtf klg 5 h; sf]pkofu u/LeŠ Dk klt/fvL lgdfQf nfo{  
 ; lhnš]agfpg ; lsG .

%&= clg of]ejg lgdfQf ; kxtf egš fls ]lg <

ejg lgdfQf ; kxtf (Building Code) egš fl]ejg lgdfQf sf lj lj w klf x? nfo{  
 lj rf/ u/LejgnfO{pkofu L Pj +; /lft agfpg d2t kš ofpg]lx; fan]  
 tof/ u/L sf of] og ul/g]ejg lgdfQf ; DaGwL cflwsfl/s b: tfj h  
 xf] . ; f/sf w] dhš x? df eŠ Dk lo ; /lff, cfunfuL; /lff, jftfj/Of  
 dš L Of flb kš Gw?; ktsf] Pp6} jf a] hfa] h} ejg lgdfQf ; kxtf x?  
 krngdf /xšf 5g\ xfd] dhš df klg eŠ Dk lo ; /lffsf kš Gw? ; ktsf]  
 gkfn /fi6e ejg lgdfQf ; kxtf (Nepal National Building Code) /xšf]  
 5 . of]; kxtfdf lj leG v08x? df lj leG vfn]ejgx? nfo{ eŠ Dk klt/fvL  
 agfpg]klj wfgx? /flvPsf 5g\ logIx? dWš} s xL v08df rngrNtdf  
 /xšf ; fdfGo 3/x? nfo{ eŠ Dk klt/fvL agfpg]pkfox? ; /n ?kdf  
 lrq; kxt k]tt ul/Psf 5g\ eŠ Dk klt/fvL 3/ agfpg ltx? sf] d2t  
 lng ; lsG . ; ktsf lj leG v08x? dW] s xL v08x? gkfnldf cgj fb  
 eO{kš flzt klg eO; sšf 5g\

%\*= s: tfls: tf]3/ lgdfQf s flnflu of]; kxtf sf]pkofu ug{; lsG <

xdf] ufpB/lt/ aG]9Eš, sf7 jf Ošf]kofu u/LagfOg]3/x? blv zx/  
 ahf/df rng rNtdf /xšf @:# tn]; Ddsf uf/f] fnf jf lkn/jfnf 3/  
 tyf cTofwgs 7hf 7hf ejgx?; Ddsf]l8hfOg / lgdfQf sfoš]nflu  
 gkfnsl]ejg lgdfQf ; kxtf sf]pkofu ug{; lsG . cemufE/ aG]  
 3/x?, zx/ ahf/df rngrNtdf /xšf uf/f] fnf / lkn/jfnf 3/x? sf]  
 lgdQ t ; /n ?kdf ; lrq ; lj: tf/ eŠ Dk klt/fvL lgdfQf k4ltsf]af/df  
 of]; kxtfdf lbOPsf]5 .





% (= khfġfh s xLgu/kfns fx?df ejg lgdġf; ħtf nfu"ePs f]eGg]  
; lgG5, of]ej g lgdġf; ħtf nfu"ePs f]egš f]s x]f< d h: tf]3/  
wgls f]nflu o; n]s ]s : tf]kġof ubš <

ejg lgdġf; ħtf nfu"ePs f]eGgn]; DaGwt gu/kfnsf If]leq s; ħ]  
klg goF3/sf]lgdġf ubf{ejg lgdġf; ħtfdf; 'enġPdt]j s]f]j f  
; f]eGf a9Lxg]u/LešDk klġ/fwLkfj wfgx?sf]kngf u/L3/ lgdġf  
ug]kg]egš f]x]. o:tf]; ħtf nfu"ePs f]gu/kfnsdf gSzf kf; ugš f]  
nflu ejgsf]gSzf kž ubf{g}ejg lgdġf; ħtfdf atfġPcg; f/sf  
lkn/, lad, uf/f/ cG cux? xg]u/LgSzf kž ug{kbš . ejg lgdġf  
; ħtf cg; f/sf]gSzf / l8hfġ ePdf dfq gSzf kf; xG, cġyf gSzf  
kf; g}xġ . ; fy}lgdġf :yndf klg ; do ; dodf gu/kfnsf s]  
k]j lwsx? uġ{gSzfdf pNny ePcg; f/ lgdġf eP gePs f]hġf u/L  
; f]cg; f/sf]ug{nufpg]aGf]:t klg ul/Psf]xG . ejg lgdġf; ħtfs]  
sfoġ ogn]ešDk klġ/fwL3/ lgdġf]sf]lgdġ Ps xb; Ddsf]; lgZrttf  
k]f]g ug]sfo{ubš eg]o; lbzdf cu; / xgsf]nflu ; ahfġ{k]/t  
klg ubš .

## lj lj w

^)= eš Dk klġ/fwL3/ agfpgx?nfġ{s g}lgs foaf6 ; xnot, ; lj wf lbg]  
k4lt klg 5 ls <

xfn; Dd xfdLsxfġo:tf]; lj wf ; xnot lbg]k4lt 5g . t/ 3/ egš f]  
cf g}nflu agfpg]xġf ; lj wf ; xnot gePtf klg ešDk klġ/fwL3/  
lgdġf ug{eg]cġG h?/L5 .

^!= eš Dk klġ/fwL3/ agfpg]kg]s g}s fgġLkfj wfg j f gagPdf b08  
; hfos f]klg Joj : yf 5 ls <

ejg lgdġf; ħtf nfu"u/Ls xLgu/kfnsfx?df ešDk klġ/fwL3/  
lgdġf ug{kg]c]krf]/s kfj wfg ePtf klg s; ħ]gu/š]v08df b08  
; hfo lbg]Joj : yf eg]xfn; Dd 5g . ; ħtf nfu"ePs f]gu/kfnsfx?df  
gSzf kf; ugš f]lgdġ ejg lgdġf; ħtfcg; f/s}gSzf kž ug{kg]  
Joj : yf eg]5 .



^@= dñ]3/s f]eš Dk, cfunfuls fl]gldQ aIdf u/ fpg]; fġ agfPs f]5'.  
 aIdf u/ kl5 t dñ]eš Dk klġ /fvLagfpg]kg fh?/Lx fġ xfhf lg <

aIdf ubf{eš Dk, cfunfulh: tf lj kbdf k/L lft ePsf]v08df lftklġ {  
 :j?k sXL/sd kllt ug{t ; lsG, h; n]kl5 3/ klgldff ug{d2t  
 klg ldng ; S5 t/ aIdf aġt\cfpg]/sdn]eš Dksf]; dodf xg ; Sg]  
 hlj gsf]aafl/ f]g jf dTo' ePsf]dfg; sf]hlj g lktf{t s; h/|klg  
 xg]5g . To; h]aIdf ug]eP klg jf geP klg eš Dk klġ /fvL3/ agfpg'  
 eg]cjZos g]xG .

^#= eš Dk klġ /fvL3/ lgdff ; DaGwdf cenlj : tf/df yxf kfg s xlf  
 ; Dks {ugfj f s ; /Lcema9Lhfgsf/Lkfg]<

o; lj ifodf cema9Lyxf kfgsf nflu eš Dk klj lw /fli6o ; dfh-gkfn  
 (NSET) sf]sfoffo ; h' e} kf6L nntk/ jf zx/Lj sf; tyf ej g  
 lgdff lj efu / dftxtsf l8lehg sfoffox? Pj -gu/kfnsfsf sfoffox?df  
 ; Dks{/fvG ; lsG . Tox f6 plrt ; /-; Nfx kllt xg ; Sb5 .

^\$= d h: t]gofB/ agfpg nfuš f]JolQmf0{/ lgdff ; DaGwLtfnd  
 lng]sg]Joj: yf5 ls <

eš Dk klj lw /fli6o ; dfh-gkfn (NSET) sf]sfoffo ; h' e} kf6L  
 nntk/df x/š zqmf/ lbgf]@ ah]kl5 3/ agfpg nfuš f]JolQm?sf  
 lglDQ lgmNs k/fdz{; jf ; ~rġng ul/G, To; af6 tkf0h]cema9L  
 hfgsf/Lxf; n ug{; SgxG . of]k/fdz{; jdf tkf0{cf gf]klj lws,  
 7š]f/ jf 8sdIf?nf0{; dġ /fvL cfjZos ; /-; Nfx / 5nkm klg  
 ug{; SgxG . To; sf]nflu b0rf/ lbgcl3 g}o; ; dhdf ; Dks{/fv  
 ; do lgw{Of ugġP j ħ xG .

To; h/L eš Dk klj lw /fli6o ; dfh-gkfn]3/ lgdff xg]; do kf/]  
 sf7df08f]pkTosfsf lj leG : yfgdf ej g lgdff : yn; Dd u0{lgmNs  
 3DtL; jf klg ; ~rġng ug]u/š]5 . o:tf]cj; /df klg tkf0h]cjZos  
 ; Nfx lng ; SgxG . o; sf]nflu tkf0h]eš Dk klj lw /fli6o ; dfh-gkfn]sf  
 sfoffodf ; Dks{/fvL o:tf]3DtL; jf ; ~rġng xg]: yfgsf]af/df  
 hfgsf/Llng ; SgxG .

# lkn/j fnf 3/nf0{ eŠ Dk k|t/fyL agfpg Wfg lbgkg{dVo s/fx?

**lkn/x?nf0{Pp6}lu\$ nf0gdf /Vg]**

aldx? lu\$ nf0gdf /x\$fl-17s\_

aldx? lu\$ nf0gdf g/x\$fl-a1/s\_

:ki6 k|t k|ffnL -17s\_

c:ki6 k|t k|ffnL-a1/s\_

4 lkn/x?nf0{Pp6}lu\$ nf0gdf /Vgk5{/ ; a)lkn/x?nf0{aldn|h\$gk5{

4 aldnf0{lkn/sf|s\$|b|/y|df kg{u/L/Vgk5{

**lkn/ aldeGbf alnof|agfpg]**

lkn/ebf ald d\$fl-a1/s\_

aldeGbf lkn/ d\$fl-17s\_

4 lkn/nf0{aldeGbf alnof|agfpg' kb\$ . o; f] ubf{ejgsf|eŠlko ef/ jxg ug|ldtf a9\$ .

4 sDldf lkn/sf|; f0h ! x! lkn xgk5{

**kof{t nrs bf/ agfpg]**

8fod08 l/E

50Gr

lkn/sf|808L

aldsf|808L

l/a /Vg|t/sf

^) x 808lsf|d\$fl0{ %nf0gsf|808Lk\$fl u/df @% lkn\_

4 l/a?df !#% l8ulsf|xs /Vgk5{

4 cf7j 6f 7f8f|808LePsf|7fp\$f yk 8fpd08 cfsf/sf|l/a alrsf|808lnf0{; dfgp|u/L g\$zdf byfP h:t;/Vg]

4 lkn/sf|k/f nDaf0f \$ 0Gr\$sf|knsdf l/a? /Vg].

4 aldsf|ba}5paf\$ @ lkn; Ddsf|nDaf0f \$ 0Gr\$sf|knsdf l/a? /Vg].

4 ald / lkn/x?df hf\$lf @ lkn\$sf|nDaf0f 808lx? v|kg' xbg .

4 ald / lkn/sf|hf\$ldf klg lkn/sf l/a? /Vg].

4 aldsf 808lx?nf0{lkn/leq kof{t dfqdf 3; fpg].

4 lkn/df aldsf 808lx? lkn/sf|808lsf|alraf\$ /Vg].

hf\$ldf aldsf 808lx? 3; fpg|t/sf



**es Dk klj lw /fi6 ; dth-gkfn**  
**National Society for Earthquake Technology-Nepal (NSET)**

;j' uf-lj = j 8f g+\$, e)kf6Lcfjf; Ifq, nlnrk/, kfa-g+!#&&% sf7df8f-gkfn  
kif g-M(&&-!\_%(!)) kndS; g-M(&&-!\_%(@@  
0-dhMnset@nset.org.np, j 4 ;f06Mwww.nset.org.np