

ANEXO 1

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Form1 - 1
Public Sub Command1_Click()
Aa = Val(Text1.Text) ' Cargo variables
H = Val(Text2.Text)
L = Val(Text3.Text)
W = Val(Text4.Text)
gamaS = Val(Text5.Text)
gamaSat = Val(Text6.Text)
gamaC = Val(Text7.Text)
Fc = Val(Text8.Text)
Fy = Val(Text9.Text)
d = Val(Text10.Text)
Qa = Val(Text11.Text)
fi = Val(Text12.Text)
miu = Val(Text13.Text)
Fsv = Val(Text14.Text)
Fsd = Val(Text15.Text)
NAF = Val(Text16.Text)
Form2.Visible = True
Form1.Enabled = False
Form1.Visible = False
MDIForm1.Abrir.Enabled = False
MDIForm1.DiseñarNuevo = False
End Sub
Private Sub Form_Activate()
Me.WindowState = 2
End Sub
Private Sub Form_GotFocus()
Me.WindowState = 2
End Sub
Private Sub Form_Initialize()
Me.WindowState = 2
End Sub
Private Sub Form_Load()
Me.WindowState = 2
End Sub
Private Sub Form_LostFocus()
Me.WindowState = 2
End Sub
Sub text1_keypress(KeyAscii As Integer)
If Not IsNumeric(Chr(KeyAscii)) Then 'Evita que se escriban letras
If KeyAscii = Asc(",") Then 'pendiente revisar funcionamiento en windows 7 y 8
KeyAscii = Asc(".")
End If
If KeyAscii <> Asc(".") Then
If KeyAscii <> 8 Then
KeyAscii = 0
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Exit Sub
End If
End If
End If
End Sub
Sub text2_keypress(KeyAscii As Integer)
If Not IsNumeric(Chr(KeyAscii)) Then 'Evita que se escriban letras
If KeyAscii = Asc(",") Then 'pendiente revisar funcionamiento en windows 7 y 8
KeyAscii = Asc(".")
End If
If KeyAscii <> Asc(".") Then
If KeyAscii <> 8 Then
KeyAscii = 0
Exit Sub
End If
End If
End If
End Sub
Sub text3_keypress(KeyAscii As Integer)
If Not IsNumeric(Chr(KeyAscii)) Then 'Evita que se escriban letras
If KeyAscii = Asc(",") Then 'pendiente revisar funcionamiento en windows 7 y 8
KeyAscii = Asc(".")
End If
If KeyAscii <> Asc(".") Then
If KeyAscii <> 8 Then
KeyAscii = 0
Exit Sub
End If
End If
End If
End Sub
Sub text4_keypress(KeyAscii As Integer)
If Not IsNumeric(Chr(KeyAscii)) Then 'Evita que se escriban letras
If KeyAscii = Asc(",") Then 'pendiente revisar funcionamiento en windows 7 y 8
KeyAscii = Asc(".")
End If
If KeyAscii <> Asc(".") Then
If KeyAscii <> 8 Then
KeyAscii = 0
Exit Sub
End If
End If
End If
End Sub
Sub text5_keypress(KeyAscii As Integer)
If Not IsNumeric(Chr(KeyAscii)) Then 'Evita que se escriban letras
If KeyAscii = Asc(",") Then 'pendiente revisar funcionamiento en windows 7 y 8
KeyAscii = Asc(".")
End If

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If KeyAscii <> Asc(".") Then
If KeyAscii <> 8 Then
KeyAscii = 0
Exit Sub
End If
Form1 - 2
End If
End If
End Sub
Sub text6_keypress(KeyAscii As Integer)
If Not IsNumeric(Chr(KeyAscii)) Then 'Evita que se escriban letras
If KeyAscii = Asc(",") Then 'pendiente revisar funcionamiento en windows 7 y 8
KeyAscii = Asc(".")
End If
If KeyAscii <> Asc(".") Then
If KeyAscii <> 8 Then
KeyAscii = 0
Exit Sub
End If
End If
End If
End Sub
Sub text7_keypress(KeyAscii As Integer)
If Not IsNumeric(Chr(KeyAscii)) Then 'Evita que se escriban letras
If KeyAscii = Asc(",") Then 'pendiente revisar funcionamiento en windows 7 y 8
KeyAscii = Asc(".")
End If
If KeyAscii <> Asc(".") Then
If KeyAscii <> 8 Then
KeyAscii = 0
Exit Sub
End If
End If
End If
End Sub
Sub text8_keypress(KeyAscii As Integer)
If Not IsNumeric(Chr(KeyAscii)) Then 'Evita que se escriban letras
If KeyAscii = Asc(",") Then 'pendiente revisar funcionamiento en windows 7 y 8
KeyAscii = Asc(".")
End If
If KeyAscii <> Asc(".") Then
If KeyAscii <> 8 Then
KeyAscii = 0
Exit Sub
End If
End If
End If
End Sub
Sub text9_keypress(KeyAscii As Integer)

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If Not IsNumeric(Chr(KeyAscii)) Then 'Evita que se escriban letras
If KeyAscii = Asc(",") Then 'pendiente revisar funcionamiento en windows 7 y 8
KeyAscii = Asc(".")
End If
If KeyAscii <> Asc(".") Then
If KeyAscii <> 8 Then
KeyAscii = 0
Exit Sub
End If
End If
End If
End Sub
Sub text10_keypress(KeyAscii As Integer)
If Not IsNumeric(Chr(KeyAscii)) Then 'Evita que se escriban letras
If KeyAscii = Asc(",") Then 'pendiente revisar funcionamiento en windows 7 y 8
KeyAscii = Asc(".")
End If
If KeyAscii <> Asc(".") Then
If KeyAscii <> 8 Then
KeyAscii = 0
Exit Sub
End If
End If
End If
End Sub
Sub text11_keypress(KeyAscii As Integer)
If Not IsNumeric(Chr(KeyAscii)) Then 'Evita que se escriban letras
If KeyAscii = Asc(",") Then 'pendiente revisar funcionamiento en windows 7 y 8
KeyAscii = Asc(".")
End If
If KeyAscii <> Asc(".") Then
If KeyAscii <> 8 Then
KeyAscii = 0
Exit Sub
End If
End If
End If
End Sub
Sub text12_keypress(KeyAscii As Integer)
If Not IsNumeric(Chr(KeyAscii)) Then 'Evita que se escriban letras
If KeyAscii = Asc(",") Then 'pendiente revisar funcionamiento en windows 7 y 8
KeyAscii = Asc(".")
End If
If KeyAscii <> Asc(".") Then
If KeyAscii <> 8 Then
KeyAscii = 0
Exit Sub
End If
End If

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End If
End Sub
Sub text13_keypress(KeyAscii As Integer)
If Not IsNumeric(Chr(KeyAscii)) Then 'Evita que se escriban letras
If KeyAscii = Asc(",") Then 'pendiente revisar funcionamiento en windows 7 y 8
KeyAscii = Asc(".")
End If
If KeyAscii <> Asc(".") Then
If KeyAscii <> 8 Then
KeyAscii = 0
Form1 - 3
Exit Sub
End If
End If
End If
End Sub
Sub text14_keypress(KeyAscii As Integer)
If Not IsNumeric(Chr(KeyAscii)) Then 'Evita que se escriban letras
If KeyAscii = Asc(",") Then 'pendiente revisar funcionamiento en windows 7 y 8
KeyAscii = Asc(".")
End If
If KeyAscii <> Asc(".") Then
If KeyAscii <> 8 Then
KeyAscii = 0
Exit Sub
End If
End If
End If
End Sub
Sub text15_keypress(KeyAscii As Integer)
If Not IsNumeric(Chr(KeyAscii)) Then 'Evita que se escriban letras
If KeyAscii = Asc(",") Then 'pendiente revisar funcionamiento en windows 7 y 8
KeyAscii = Asc(".")
End If
If KeyAscii <> Asc(".") Then
If KeyAscii <> 8 Then
KeyAscii = 0
Exit Sub
End If
End If
End If
End Sub
Sub text16_keypress(KeyAscii As Integer)
If Not IsNumeric(Chr(KeyAscii)) Then 'Evita que se escriban letras
If KeyAscii = Asc(",") Then 'pendiente revisar funcionamiento en windows 7 y 8
KeyAscii = Asc(".")
End If
If KeyAscii <> Asc(".") Then
If KeyAscii <> 8 Then

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KeyAscii = 0
Exit Sub
End If
End If
End If
End Sub
Private Sub Command2_Click()
Dialogo.ShowPrinter
Me.Refresh
Printer.Orientation = vbPRORLandscape
Printer.PaintPicture CaptureClient(Me), 500, 500, Printer.ScaleWidth, (Me.ScaleHeight *
Printer.ScaleWidth) / Me.ScaleWidth, , , Me.ScaleWid
th, Me.ScaleHeight
Printer.EndDoc
Mensaje "La impresión fue enviada a la impresora " + Printer.DeviceName
End Sub
Private Sub Combo1_Click()
Mensaje Combo1.ListIndex
End Sub
Form1 - 1
VERSION 5.00
Object = "{F9043C88-F6F2-101A-A3C9-08002B2F49FB}#1.2#0"; "COMDLG32.OCX"
Begin VB.Form Form1
Caption = "Ingreso de Datos"
ClientHeight = 9990
ClientLeft = 4320
ClientTop = 3360
ClientWidth = 15180
Icon = (Icono)
LinkTopic = "Form1"
MDIChild = -1 'True
ScaleHeight = 9990
ScaleLeft = 1000
ScaleMode = 0 'User
ScaleWidth = 15605.45
WindowState = 2 'Maximized
Begin MSComDlg.CommonDialog Dialogo
Left = 13320
Top = 5640
_ExtentX = 847
_ExtentY = 847
_Version = 393216
End
Begin VB.CommandButton Command2
Caption = "Imprimir "
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0

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Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 855
Left = 8880
TabIndex = 51
Top = 8040
Visible = 0 'False
Width = 4935
End
Begin VB.TextBox Text16
Alignment = 1 'Right Justify
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 5640
TabIndex = 21
Text = "0"
Top = 3000
Width = 1815
End
Begin VB.PictureBox Picture1
AutoSize = -1 'True
Height = 5085
Left = 8760
Picture = (Mapa de bits)
ScaleHeight = 10050
ScaleMode = 0 'User
ScaleWidth = 5430
TabIndex = 48
Top = 360
Width = 5490
End
Begin VB.TextBox Text15
Alignment = 1 'Right Justify
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
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Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 5640
TabIndex = 30
Text = "2"
Top = 7320
Width = 1815
End
Begin VB.TextBox Text14
Alignment = 1 'Right Justify
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 5640
TabIndex = 29
Text = "2"
Top = 6840
Width = 1815
End
Begin VB.TextBox Text13
Alignment = 1 'Right Justify
BeginProperty Font
Form1 - 2
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 5640
TabIndex = 28
Text = "0.7"
Top = 6360
Width = 1815
End
Begin VB.CommandButton Command1
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Caption = "Prediseñar >"
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 855
Left = 1320
TabIndex = 31
Top = 8040
Width = 5895
End
Begin VB.TextBox Text12
Alignment = 1 'Right Justify
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 5640
TabIndex = 27
Text = "32"
Top = 5880
Width = 1815
End
Begin VB.TextBox Text11
Alignment = 1 'Right Justify
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 5640
TabIndex = 26
Text = "400"
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Top = 5400
Width = 1815
End
Begin VB.TextBox Text10
Alignment = 1 'Right Justify
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 5640
TabIndex = 25
Text = "0.07"
Top = 4920
Width = 1815
End
Begin VB.TextBox Text9
Alignment = 1 'Right Justify
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 5640
TabIndex = 24
Text = "420"
Top = 4440
Width = 1815
End
Begin VB.TextBox Text8
Alignment = 1 'Right Justify
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Form1 - 3
Weight = 700
Underline = 0 'False
Italic = 0 'False
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Strikethrough = 0 'False
EndProperty
Height = 375
Left = 5640
TabIndex = 23
Text = "21"
Top = 3960
Width = 1815
End
Begin VB.TextBox Text7
Alignment = 1 'Right Justify
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 5640
TabIndex = 22
Text = "24"
Top = 3480
Width = 1815
End
Begin VB.TextBox Text6
Alignment = 1 'Right Justify
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 5640
TabIndex = 20
Text = "19"
Top = 2520
Width = 1815
End
Begin VB.TextBox Text5
Alignment = 1 'Right Justify
BeginProperty Font
Name = "MS Sans Serif"
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Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 5640
TabIndex = 19
Text = "18"
Top = 2040
Width = 1815
End
Begin VB.TextBox Text4
Alignment = 1 'Right Justify
Enabled = 0 'False
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 5520
TabIndex = 18
Text = "0"
Top = 9000
Visible = 0 'False
Width = 1815
End
Begin VB.TextBox Text3
Alignment = 1 'Right Justify
BeginProperty DataFormat
Type = 0
Format = "0,00"
HaveTrueFalseNull= 0
FirstDayOfWeek = 0
FirstWeekOfYear = 0
LCID = 9226
SubFormatType = 0
EndProperty
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
```

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Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 5640
TabIndex = 17
Text = "8"
Form1 - 4
Top = 1560
Width = 1815
End
Begin VB.TextBox Text2
Alignment = 1 'Right Justify
BeginProperty DataFormat
Type = 0
Format = "0,00"
HaveTrueFalseNull= 0
FirstDayOfWeek = 0
FirstWeekOfYear = 0
LCID = 9226
SubFormatType = 0
EndProperty
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 5640
TabIndex = 16
Text = "8"
Top = 1080
Width = 1815
End
Begin VB.TextBox Text1
Alignment = 1 'Right Justify
BeginProperty DataFormat
Type = 0
Format = "0,00"
HaveTrueFalseNull= 0
FirstDayOfWeek = 0
FirstWeekOfYear = 0
LCID = 9226
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SubFormatType = 0
EndProperty
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 5640
TabIndex = 15
Text = "0.25"
Top = 600
Width = 1815
End
Begin MSComDlg.CommonDialog IOVentana
Left = 13320
Top = 6840
_ExtentX = 847
_ExtentY = 847
_Version = 393216
DefaultExt = ".mcc"
DialogTitle = "Muros con Contrafuertes"
FileName = "ArchivoMuro.mcc"
Filter = "Archivos MCC (*.mcc)|*.mcc"
Flags = 2
End
Begin VB.Label Label33
Caption = "Altura del Nivel Freatico (NAF):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 600
TabIndex = 50
Top = 3000
Width = 4575
End
Begin VB.Label Label32
Caption = "m"
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BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 7680
TabIndex = 49
Top = 3000
Width = 615
End
Begin VB.Label Label31
Caption = "°"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Form1 - 5
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 7680
TabIndex = 47
Top = 5880
Width = 615
End
Begin VB.Label Label30
Caption = "kN/m²"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 7680
TabIndex = 46
Top = 5400
Width = 615
```

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End
Begin VB.Label Label29
Caption = "m"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 7680
TabIndex = 45
Top = 4920
Width = 615
End
Begin VB.Label Label28
Caption = "MPa"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 7680
TabIndex = 44
Top = 4440
Width = 615
End
Begin VB.Label Label27
Caption = "MPa"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 7680
TabIndex = 43
```



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Top = 3960
Width = 615
End
Begin VB.Label Label26
Caption = "kN/m3"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 7680
TabIndex = 42
Top = 3480
Width = 615
End
Begin VB.Label Label25
Caption = "kN/m3"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 7680
TabIndex = 41
Top = 2520
Form1 - 6
Width = 615
End
Begin VB.Label Label24
Caption = "kN/m3"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
```

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Height = 255
Left = 7680
TabIndex = 40
Top = 2040
Width = 615
End
Begin VB.Label Label23
Caption = "m"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 7560
TabIndex = 39
Top = 9000
Visible = 0 'False
Width = 615
End
Begin VB.Label Label22
Caption = "m"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 7680
TabIndex = 38
Top = 1560
Width = 615
End
Begin VB.Label Label21
Caption = "m"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
```

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Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 7680
TabIndex = 37
Top = 1080
Width = 615
End
Begin VB.Label Label20
BackStyle = 0 'Transparent
Caption = "m"
BeginProperty Font
Name = "GreekC"
Size = 9
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 4560
TabIndex = 36
Top = 6315
Width = 495
End
Begin VB.Label Label19
BackStyle = 0 'Transparent
Caption = "F"
BeginProperty Font
Name = "GreekC"
Size = 9
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 4140
TabIndex = 35
Top = 5865
Width = 495
End
Begin VB.Label Label18
BackStyle = 0 'Transparent
Caption = "g"
Form1 - 7
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BeginProperty Font
Name = "GreekC"
Size = 9
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 3240
TabIndex = 34
Top = 3405
Width = 495
End
Begin VB.Label Label17
BackStyle = 0 'Transparent
Caption = "g"
BeginProperty Font
Name = "GreekC"
Size = 9
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 4485
TabIndex = 33
Top = 2445
Width = 495
End
Begin VB.Label Label16
BackStyle = 0 'Transparent
Caption = "g"
BeginProperty Font
Name = "GreekC"
Size = 9
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 4170
TabIndex = 32
Top = 1965
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Width = 495
End
Begin VB.Label Label15
Caption = "Factor de Seguridad al Deslizamiento (Fsd) >= 2 :)"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 600
TabIndex = 14
Top = 7320
Width = 4455
End
Begin VB.Label Label14
Caption = "Factor de Seguridad al Volcamiento (Fsv) >= 2 :)"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 600
TabIndex = 13
Top = 6840
Width = 4455
End
Begin VB.Label Label13
Caption = "Coeficiente de Friccion del Suelo - Concreto ( ):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 600

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TabIndex = 12
Top = 6360
Width = 4455
End
Begin VB.Label Label12
Caption = "Angulo de Friccion del Suelo de Relleno ( ):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Form1 - 8
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 600
TabIndex = 11
Top = 5880
Width = 4455
End
Begin VB.Label Label11
Caption = "Capacidad de Carga Adminisible del Suelo (Qa):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 600
TabIndex = 10
Top = 5400
Width = 4455
End
Begin VB.Label Label10
Caption = "Recubrimiento del acero de refuerzo (d):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False

```

```

EndProperty
Height = 255
Left = 600
TabIndex = 9
Top = 4920
Width = 4455
End
Begin VB.Label Label9
Caption = "Resistencia del Acero (Fy):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 600
TabIndex = 8
Top = 4440
Width = 4455
End
Begin VB.Label Label8
Caption = "Resistencia del Concreto (Fc):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 600
TabIndex = 7
Top = 3960
Width = 4455
End
Begin VB.Label Label7
Caption = "Peso Especifico del Concreto ( c):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False

```

```

Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 600
TabIndex = 6
Top = 3480
Width = 4455
End
Begin VB.Label Label6
Caption = "Peso Especifico del Suelo Saturado Relleno ( sat):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 600
TabIndex = 5
Top = 2520
Width = 4575
Form1 - 9
End
Begin VB.Label Label5
Caption = "Peso Especifico del Suelo Seco Relleno ( s):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 600
TabIndex = 4
Top = 2040
Width = 4455
End
Begin VB.Label Label4
Caption = "Carga Sobre el Relleno (W):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25

```



```

Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 480
TabIndex = 3
Top = 9000
Visible = 0 'False
Width = 4455
End
Begin VB.Label Label3
Caption = "Longitud (L):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 600
TabIndex = 2
Top = 1560
Width = 4455
End
Begin VB.Label Label2
Caption = "Altura (H) >= 8 :)"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 600
TabIndex = 1
Top = 1080
Width = 4455
End
Begin VB.Label Label1
Caption = "Coeficiente de Aceleracion Horizontal Pico Efectiva (Aa):"

```

```

BeginProperty DataFormat
Type = 1
Format = "0,00"
HaveTrueFalseNull= 0
FirstDayOfWeek = 0
FirstWeekOfYear = 0
LCID = 9226
SubFormatType = 1
EndProperty
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 600
TabIndex = 0
Top = 600
Width = 4935
End
Begin VB.Shape Shape1
BorderWidth = 2
Height = 7455
Left = 360
Top = 360
Width = 8175
End
End
Form2 - 1
Private Sub Form_GotFocus()
Me.WindowState = 2
End Sub
Private Sub Form_Load()
Me.WindowState = 2
B = 0.5 * H
a = 0.1 * H
bz = 0.1 * H
dz = 0.3
hr = 0.6
c = 0
B = reemplazarTexto(B, ",", ".") 'Reemplazo coma por punto, revisar en windows 7 y 8
a = reemplazarTexto(a, ",", ".")
bz = reemplazarTexto(bz, ",", ".")
dz = reemplazarTexto(dz, ",", ".")
hr = reemplazarTexto(hr, ",", ".")

```

```

c = reemplazarTexto(c, ",", ".")
H = reemplazarTexto(H, ",", ".")
Label8.Caption = B
Label9.Caption = a
Label10.Caption = bz
Label11.Caption = dz
temp = 0.1 * Val(H)
temp = reemplazarTexto(temp, ",", ".")
Label12.Caption = temp
Label13.Caption = hr
Text1.Text = B
Text2.Text = a
Text3.Text = bz
Text4.Text = c
If dz < 0.3 Then
Text5.Text = 0.3
Else
Text5.Text = dz
End If
temp = Val(B) - (Val(bz) + Val(c) + Val(dz))
temp = reemplazarTexto(temp, ",", ".")
Text6.Text = temp
temp = Val(H) - Val(a)
temp = reemplazarTexto(temp, ",", ".")
Text7.Text = temp
Text8.Text = hr
Text9.Text = "0.25"
S = Val(H) / 3
S = reemplazarTexto(S, ",", ".")
Sn = Val(S) - 0.25
If Sn < 3 Then
Sn = 3
End If
Sn = reemplazarTexto(Sn, ",", ".")
Sn = Round(Val(Sn), 2)
Sn = reemplazarTexto(Sn, ",", ".")
Text10.Text = Sn
temp = 0
End Sub
Private Sub Text1_LostFocus()
If Val(Text1.Text) < Val(Label8.Caption) Then
Mensaje "El ancho de la zarpa no puede ser menor que la referencia"
Text1.SetFocus
End If
temp = Val(Text1.Text) - (Val(Text3.Text) + Val(Text4.Text) + Val(Text5.Text))
temp = reemplazarTexto(temp, ",", ".")
Text6.Text = temp
temp = 0
End Sub

```

```

Private Sub Text2_LostFocus()
If Val(Text2.Text) < Val(Label9.Caption) Then
Mensaje "El espesor de la zarpa no puede ser menor que la referencia"
Text2.SetFocus
End If
temp = Val(H) - Val(Text2.Text)
temp = reemplazarTexto(temp, ",", ".")
Text7.Text = temp
temp = 0
End Sub
Private Sub Text3_LostFocus()
If Val(Text3.Text) < Val(Label10.Caption) Then
Mensaje "El valor de b la zarpa no puede ser menor que la referencia"
Text3.SetFocus
End If
temp = Val(Text1.Text) - (Val(Text3.Text) + Val(Text4.Text) + Val(Text5.Text))
temp = reemplazarTexto(temp, ",", ".")
Text6.Text = temp
temp = 0
End Sub
Private Sub Text4_LostFocus()
If Val(Text4.Text) < 0 Then
Mensaje "El valor de c la zarpa no puede ser menor que cero"
Text4.SetFocus
End If
temp = Val(Text1.Text) - (Val(Text3.Text) + Val(Text4.Text) + Val(Text5.Text))
temp = reemplazarTexto(temp, ",", ".")
Text6.Text = temp
temp = 0
End Sub
Private Sub Text5_LostFocus()
If Val(Text5.Text) < 0.3 Then
Mensaje "El valor de d la zarpa no puede ser menor que la referencia"
Text5.SetFocus
End If
temp = Val(Text1.Text) - (Val(Text3.Text) + Val(Text4.Text) + Val(Text5.Text))
temp = reemplazarTexto(temp, ",", ".")
Text6.Text = temp
temp = 0
Form2 - 2
End Sub
Private Sub Text8_LostFocus()
If Val(Text8.Text) < 0.6 Then
Mensaje "El valor de h del relleno no puede ser menor que 0.6 m"
Text8.SetFocus
End If
End Sub
Private Sub Text9_LostFocus()
If Val(Text8.Text) < 0.6 Then

```

```

Text8.SetFocus
Else
If Val(Text9.Text) < 0.2 Or Val(Text9.Text) > 0.5 Then
Mensaje "El valor de ec debe estar entre 0.2 y 0.5"
Text9.SetFocus
End If
End If
End Sub
Private Sub Text10_LostFocus()
If Val(Text9.Text) < 0.2 Or Val(Text9.Text) > 0.5 Then
Text9.SetFocus
Else
If Val(Text10.Text) < Val(Sn) Then
Mensaje "El valor de Sn debe ser mayor a " + Sn + " m"
Text10.SetFocus
End If
End If
Sn = reemplazarTexto(Text10.Text, ",", ".")
ec = reemplazarTexto(Text9.Text, ",", ".")
S = Val(Sn) + Val(ec)
End Sub
Public Sub Command1_Click()
B = Val(Text1.Text)
a = Val(Text2.Text)
bz = Val(Text3.Text)
c = Val(Text4.Text)
dz = Val(Text5.Text)
f = Val(Text6.Text)
g = Val(Text7.Text)
hr = Val(Text8.Text)
ec = Val(Text9.Text)
Sn = Val(Text10.Text)
B = reemplazarTexto(B, ",", ".")
a = reemplazarTexto(a, ",", ".")
bz = reemplazarTexto(bz, ",", ".")
c = reemplazarTexto(c, ",", ".")
dz = reemplazarTexto(dz, ",", ".")
f = reemplazarTexto(f, ",", ".")
g = reemplazarTexto(g, ",", ".")
hr = reemplazarTexto(hr, ",", ".")
ec = reemplazarTexto(ec, ",", ".")
Sn = reemplazarTexto(Sn, ",", ".")
S = Val(Sn) + Val(ec)
S = reemplazarTexto(S, ",", ".")
Form2.Visible = False
Form2.Enabled = False
Form3.Visible = True
End Sub
Sub text1_keypress(KeyAscii As Integer)

```

```

If Not IsNumeric(Chr(KeyAscii)) Then 'Evita que se escriban letras
If KeyAscii = Asc(",") Then 'pendiente revisar funcionamiento en windows 7 y 8
KeyAscii = Asc(".")
End If
If KeyAscii <> Asc(".") Then
If KeyAscii <> 8 Then
KeyAscii = 0
Exit Sub
End If
End If
End If
End Sub
Private Sub Command2_Click()
Dialogo.ShowPrinter
Me.Refresh
Printer.Orientation = vbPRORLandscape
Printer.PaintPicture CaptureClient(Me), 500, 500, Printer.ScaleWidth, (Me.ScaleHeight *
Printer.ScaleWidth) / Me.ScaleWidth, , , Me.ScaleWid
th, Me.ScaleHeight
Printer.EndDoc
Mensaje "La impresión fue enviada a la impresora " + Printer.DeviceName
End Sub
Sub text2_keypress(KeyAscii As Integer)
If Not IsNumeric(Chr(KeyAscii)) Then 'Evita que se escriban letras
If KeyAscii = Asc(",") Then 'pendiente revisar funcionamiento en windows 7 y 8
KeyAscii = Asc(".")
End If
If KeyAscii <> Asc(".") Then
If KeyAscii <> 8 Then
KeyAscii = 0
Exit Sub
End If
End If
End If
End Sub
Sub text3_keypress(KeyAscii As Integer)
If Not IsNumeric(Chr(KeyAscii)) Then 'Evita que se escriban letras
If KeyAscii = Asc(",") Then 'pendiente revisar funcionamiento en windows 7 y 8
KeyAscii = Asc(".")
End If
If KeyAscii <> Asc(".") Then
If KeyAscii <> 8 Then
KeyAscii = 0
Exit Sub
End If
End If
Form2 - 3
End If
End If
End Sub

```

```

Sub text4_keypress(KeyAscii As Integer)
If Not IsNumeric(Chr(KeyAscii)) Then 'Evita que se escriban letras
If KeyAscii = Asc(",") Then 'pendiente revisar funcionamiento en windows 7 y 8
KeyAscii = Asc(".")
End If
If KeyAscii <> Asc(".") Then
If KeyAscii <> 8 Then
KeyAscii = 0
Exit Sub
End If
End If
End If
End Sub
Sub text5_keypress(KeyAscii As Integer)
If Not IsNumeric(Chr(KeyAscii)) Then 'Evita que se escriban letras
If KeyAscii = Asc(",") Then 'pendiente revisar funcionamiento en windows 7 y 8
KeyAscii = Asc(".")
End If
If KeyAscii <> Asc(".") Then
If KeyAscii <> 8 Then
KeyAscii = 0
Exit Sub
End If
End If
End If
End Sub
Sub text6_keypress(KeyAscii As Integer)
If Not IsNumeric(Chr(KeyAscii)) Then 'Evita que se escriban letras
If KeyAscii = Asc(",") Then 'pendiente revisar funcionamiento en windows 7 y 8
KeyAscii = Asc(".")
End If
If KeyAscii <> Asc(".") Then
If KeyAscii <> 8 Then
KeyAscii = 0
Exit Sub
End If
End If
End If
End Sub
Sub text7_keypress(KeyAscii As Integer)
If Not IsNumeric(Chr(KeyAscii)) Then 'Evita que se escriban letras
If KeyAscii = Asc(",") Then 'pendiente revisar funcionamiento en windows 7 y 8
KeyAscii = Asc(".")
End If
If KeyAscii <> Asc(".") Then
If KeyAscii <> 8 Then
KeyAscii = 0
Exit Sub
End If

```

```

End If
End If
End Sub
Sub text8_keypress(KeyAscii As Integer)
If Not IsNumeric(Chr(KeyAscii)) Then 'Evita que se escriban letras
If KeyAscii = Asc(",") Then 'pendiente revisar funcionamiento en windows 7 y 8
KeyAscii = Asc(".")
End If
If KeyAscii <> Asc(".") Then
If KeyAscii <> 8 Then
KeyAscii = 0
Exit Sub
End If
End If
End If
End Sub
Sub text9_keypress(KeyAscii As Integer)
If Not IsNumeric(Chr(KeyAscii)) Then 'Evita que se escriban letras
If KeyAscii = Asc(",") Then 'pendiente revisar funcionamiento en windows 7 y 8
KeyAscii = Asc(".")
End If
If KeyAscii <> Asc(".") Then
If KeyAscii <> 8 Then
KeyAscii = 0
Exit Sub
End If
End If
End If
End Sub
Sub text10_keypress(KeyAscii As Integer)
If Not IsNumeric(Chr(KeyAscii)) Then 'Evita que se escriban letras
If KeyAscii = Asc(",") Then 'pendiente revisar funcionamiento en windows 7 y 8
KeyAscii = Asc(".")
End If
If KeyAscii <> Asc(".") Then
If KeyAscii <> 8 Then
KeyAscii = 0
Exit Sub
End If
End If
End If
End Sub
Form2 - 1
VERSION 5.00
Object = "{F9043C88-F6F2-101A-A3C9-08002B2F49FB}#1.2#0"; "COMDLG32.OCX"
Begin VB.Form Form2
Caption = "Prediseño"
ClientHeight = 10530
ClientLeft = 60

```



```

ClientTop = 450
ClientWidth = 13950
ForeColor = &H00000000&
Icon = (Icono)
LinkTopic = "Form2"
MDIChild = -1 'True
ScaleHeight = 10530
ScaleWidth = 13950
WindowState = 2 'Maximized
Begin VB.CommandButton Command2
Caption = "Imprimir "
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 615
Left = 6120
TabIndex = 53
Top = 9840
Visible = 0 'False
Width = 4935
End
Begin VB.PictureBox Picture2
AutoSize = -1 'True
Height = 2865
Left = 5280
Picture = (Mapa de bits)
ScaleHeight = 2805
ScaleWidth = 7185
TabIndex = 52
Top = 6600
Width = 7245
End
Begin VB.PictureBox Picture1
AutoSize = -1 'True
Height = 6150
Left = 5280
Picture = (Mapa de bits)
ScaleHeight = 6090
ScaleWidth = 4815
TabIndex = 51
Top = 360
Width = 4875
End

```

```
Begin VB.CommandButton Command1
Caption = "Chequear >"
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 615
Left = 840
TabIndex = 50
Top = 9840
Width = 3375
End
Begin VB.TextBox Text10
Alignment = 1 'Right Justify
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 405
Left = 3360
TabIndex = 47
Top = 9000
Width = 1095
End
Begin VB.TextBox Text9
Alignment = 1 'Right Justify
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 405
Left = 3360
TabIndex = 37
Top = 8520
```

```
Width = 1095
End
Begin VB.TextBox Text8
Alignment = 1 'Right Justify
BeginProperty Font
Name = "MS Sans Serif"
Form2 - 2
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 405
Left = 3360
TabIndex = 36
Top = 8040
Width = 1095
End
Begin VB.TextBox Text7
Alignment = 1 'Right Justify
Enabled = 0 'False
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 405
Left = 3360
TabIndex = 35
Top = 7560
Width = 1095
End
Begin VB.TextBox Text6
Alignment = 1 'Right Justify
Enabled = 0 'False
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
```

```
EndProperty
Height = 405
Left = 3360
TabIndex = 12
Top = 7080
Width = 1095
End
Begin VB.TextBox Text5
Alignment = 1 'Right Justify
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 405
Left = 3360
TabIndex = 11
Top = 6600
Width = 1095
End
Begin VB.TextBox Text4
Alignment = 1 'Right Justify
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 405
Left = 3360
TabIndex = 10
Top = 6120
Width = 1095
End
Begin VB.TextBox Text3
Alignment = 1 'Right Justify
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
```

```
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 405
Left = 3360
TabIndex = 9
Top = 5640
Width = 1095
End
Begin VB.TextBox Text2
Alignment = 1 'Right Justify
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
Form2 - 3
EndProperty
Height = 405
Left = 3360
TabIndex = 8
Top = 5160
Width = 1095
End
Begin VB.TextBox Text1
Alignment = 1 'Right Justify
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
ForeColor = &H80000012&
Height = 405
Left = 3360
TabIndex = 7
Top = 4680
Width = 1095
End
Begin MSComDlg.CommonDialog Dialogo
Left = 10320
Top = 360
_ExtentX = 847
```

```
_ExtentY = 847
_Version = 393216
End
Begin VB.Label Label38
Caption = "Sn (Sep.Libre Contrafuerte):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 600
TabIndex = 49
Top = 9000
Width = 2535
End
Begin VB.Label Label37
Caption = "m"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 4560
TabIndex = 48
Top = 9000
Width = 255
End
Begin VB.Label Label36
Caption = "m"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
```

```
Left = 4560
TabIndex = 46
Top = 8520
Width = 255
End
Begin VB.Label Label35
Caption = "m"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 4560
TabIndex = 45
Top = 8040
Width = 255
End
Begin VB.Label Label34
Caption = "m"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
Form2 - 4
EndProperty
Height = 255
Left = 4560
TabIndex = 44
Top = 7560
Width = 255
End
Begin VB.Label Label33
Caption = "m"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
```

```
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 4560
TabIndex = 43
Top = 7080
Width = 255
End
Begin VB.Label Label32
Caption = "m"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 4560
TabIndex = 42
Top = 6600
Width = 255
End
Begin VB.Label Label31
Caption = "m"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 4560
TabIndex = 41
Top = 6120
Width = 255
End
Begin VB.Label Label30
Caption = "m"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
```



```
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 4560
TabIndex = 40
Top = 5640
Width = 255
End
Begin VB.Label Label29
Caption = "m"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 4560
TabIndex = 39
Top = 5160
Width = 255
End
Begin VB.Label Label28
Caption = "m"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 4560
TabIndex = 38
Top = 4680
Width = 255
End
Begin VB.Label Label27
Form2 - 5
Caption = "g (H - a) (Altura del Muro):"
BeginProperty Font
Name = "MS Sans Serif"
```

```

Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 600
TabIndex = 34
Top = 7560
Width = 2535
End
Begin VB.Label Label26
Caption = "h (Altura del relleno):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 600
TabIndex = 33
Top = 8040
Width = 2535
End
Begin VB.Label Label25
Caption = "ec (0.2 m <= ec <= 0.5 m) :)"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 600
TabIndex = 32
Top = 8520
Width = 2535
End
Begin VB.Label Label2
Caption = "Ancho de la Zarpa (B):"

```

```

BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Index = 1
Left = 600
TabIndex = 31
Top = 4680
Width = 2535
End
Begin VB.Label Label24
Caption = "Espesor de la Zarpa (a) :)"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 600
TabIndex = 30
Top = 5160
Width = 2535
End
Begin VB.Label Label4
Caption = "b (Pie):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Index = 1
Left = 600
TabIndex = 29
Top = 5640

```

```

Width = 2535
End
Begin VB.Label Label23
Caption = "c (Sobre Ancho Muro):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Form2 - 6
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 600
TabIndex = 28
Top = 6120
Width = 2535
End
Begin VB.Label Label22
Caption = "d (Ancho de Muro)>= 0.3 m : "
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 600
TabIndex = 27
Top = 6600
Width = 2535
End
Begin VB.Label Label21
Caption = "f (B- ((b+c+d)) (Talon):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255

```

```
Left = 600
TabIndex = 26
Top = 7080
Width = 2535
End
Begin VB.Label Label20
Caption = "Prediseño."
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 600
TabIndex = 25
Top = 4320
Width = 2535
End
Begin VB.Label Label19
Caption = "m"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 4560
TabIndex = 24
Top = 3360
Width = 255
End
Begin VB.Label Label18
Caption = "m"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
```

```
EndProperty
Height = 255
Left = 4560
TabIndex = 23
Top = 2880
Width = 255
End
Begin VB.Label Label17
Caption = "m"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 4560
TabIndex = 22
Top = 2400
Form2 - 7
Width = 255
End
Begin VB.Label Label16
Caption = "m"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 4560
TabIndex = 21
Top = 1920
Width = 255
End
Begin VB.Label Label15
Caption = "m"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
```

```
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 4560
TabIndex = 20
Top = 1440
Width = 255
End
Begin VB.Label Label14
Caption = "m"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 4560
TabIndex = 19
Top = 960
Width = 255
End
Begin VB.Label Label13
Alignment = 1 'Right Justify
BorderStyle = 1 'Fixed Single
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
ForeColor = &H000000FF&
Height = 375
Left = 3360
TabIndex = 18
Top = 3360
Width = 1095
End
Begin VB.Label Label12
Alignment = 1 'Right Justify
BorderStyle = 1 'Fixed Single
```

```

BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
ForeColor = &H000000FF&
Height = 375
Left = 3360
TabIndex = 17
Top = 2880
Width = 1095
End
Begin VB.Label Label11
Alignment = 1 'Right Justify
BorderStyle = 1 'Fixed Single
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
ForeColor = &H000000FF&
Height = 375
Left = 3360
TabIndex = 16
Top = 2400
Width = 1095
End
Form2 - 8
Begin VB.Label Label10
Alignment = 1 'Right Justify
BorderStyle = 1 'Fixed Single
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
ForeColor = &H000000FF&

```



```

Height = 375
Left = 3360
TabIndex = 15
Top = 1920
Width = 1095
End
Begin VB.Label Label9
Alignment = 1 'Right Justify
BorderStyle = 1 'Fixed Single
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
ForeColor = &H000000FF&
Height = 375
Left = 3360
TabIndex = 14
Top = 1440
Width = 1095
End
Begin VB.Label Label8
Alignment = 1 'Right Justify
BorderStyle = 1 'Fixed Single
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
ForeColor = &H000000FF&
Height = 375
Left = 3360
TabIndex = 13
Top = 960
Width = 1095
End
Begin VB.Label Label7
Caption = "h >= :."
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25

```

```
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 600
TabIndex = 6
Top = 3360
Width = 2535
End
Begin VB.Label Label6
Caption = "c+d >= :."
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 600
TabIndex = 5
Top = 2880
Width = 2535
End
Begin VB.Label Label5
Caption = "d >= :."
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 600
TabIndex = 4
Top = 2400
Width = 2535
End
Begin VB.Label Label4
Caption = "b >= :."
Form2 - 9
```

```

BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Index = 0
Left = 600
TabIndex = 3
Top = 1920
Width = 2535
End
Begin VB.Label Label3
Caption = "Espesor de la Zarpa (a) >= :'"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 600
TabIndex = 2
Top = 1440
Width = 2535
End
Begin VB.Label Label2
Caption = "Ancho de la Zarpa (B) >= :'"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Index = 0
Left = 600
TabIndex = 1
Top = 960

```

```

Width = 2535
End
Begin VB.Label Label1
Caption = "Referencia."
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 600
TabIndex = 0
Top = 600
Width = 2535
End
Begin VB.Shape Shape1
BorderWidth = 2
Height = 3615
Left = 360
Top = 360
Width = 4695
End
Begin VB.Shape Shape2
BorderWidth = 2
Height = 5415
Left = 360
Top = 4200
Width = 4695
End
End
Form3 - 1
Private Sub Form_GotFocus()
Me.WindowState = 2
End Sub
Private Sub Form_Load()
Me.WindowState = 2
Aa = reemplazarTexto(Aa, ",", ".")
H = reemplazarTexto(H, ",", ".")
L = reemplazarTexto(L, ",", ".")
W = reemplazarTexto(W, ",", ".")
gamaS = reemplazarTexto(gamaS, ",", ".")
gamaSat = reemplazarTexto(gamaSat, ",", ".")
gamaC = reemplazarTexto(gamaC, ",", ".")
Fc = reemplazarTexto(Fc, ",", ".")
Fy = reemplazarTexto(Fy, ",", ".")

```

```

d = reemplazarTexto(d, ",", ".")
Qa = reemplazarTexto(Qa, ",", ".")
fi = reemplazarTexto(fi, ",", ".")
miu = reemplazarTexto(miu, ",", ".")
Fsv = reemplazarTexto(Fsv, ",", ".")
Fsd = reemplazarTexto(Fsd, ",", ".")
NAF = reemplazarTexto(NAF, ",", ".")
TotEv(1) = Val(B) * Val(S) * Val(a) * Val(gamaC)
TotEv(1) = reemplazarTexto(TotEv(1), ",", ".")
Mev(1) = Val(TotEv(1)) * Val(B) / 2
Mev(1) = reemplazarTexto(Mev(1), ",", ".")
TotEv(2) = Val(c) * Val(S) * Val(g) * Val(gamaC) / 2
TotEv(2) = reemplazarTexto(TotEv(2), ",", ".")
Mev(2) = Val(TotEv(2)) * (Val(bz) + 2 * Val(c) / 3)
Mev(2) = reemplazarTexto(Mev(2), ",", ".")
TotEv(3) = Val(dz) * Val(S) * Val(g) * Val(gamaC)
TotEv(3) = reemplazarTexto(TotEv(3), ",", ".")
Mev(3) = Val(TotEv(3)) * (Val(bz) + Val(c) + (Val(dz) / 2))
Mev(3) = reemplazarTexto(Mev(3), ",", ".")
TotEv(4) = Val(f) * Val(ec) * Val(g) * Val(gamaC) / 2
TotEv(4) = reemplazarTexto(TotEv(4), ",", ".")
Mev(4) = Val(TotEv(4)) * (Val(bz) + Val(c) + Val(dz) + (Val(f) / 3))
Mev(4) = reemplazarTexto(Mev(4), ",", ".")
g = reemplazarTexto(g, ",", ".")
gamaProm = (Val(gamaSat) * Val(NAF) + Val(gamaS) * (Val(g) - Val(NAF))) / Val(g)
gamaProm = reemplazarTexto(gamaProm, ",", ".")
TotEv(5) = Val(f) * Val(ec) * Val(g) * Val(gamaProm) / 2
TotEv(5) = reemplazarTexto(TotEv(5), ",", ".")
Mev(5) = Val(TotEv(5)) * (Val(bz) + Val(c) + Val(dz) + (2 * Val(f) / 3))
Mev(5) = reemplazarTexto(Mev(5), ",", ".")
TotEv(6) = Val(f) * Val(S) * Val(g) * Val(gamaProm)
TotEv(6) = reemplazarTexto(TotEv(6), ",", ".")
Mev(6) = Val(TotEv(6)) * (Val(bz) + Val(c) + Val(dz) + (Val(f) / 2))
Mev(6) = reemplazarTexto(Mev(6), ",", ".")
Ev = 0
Ev = reemplazarTexto(Ev, ",", ".")
MeTot = 0
MeTot = reemplazarTexto(MeTot, ",", ".")
For i = 1 To 6
Ev = Val(Ev) + Val(TotEv(i))
Ev = reemplazarTexto(Ev, ",", ".")
MeTot = Val(MeTot) + Val(Mev(i))
MeTot = reemplazarTexto(MeTot, ",", ".")
Next i
Kah = ((1 - Sin(Val(fi) * PI / 180)) / (1 + Sin(Val(fi) * PI / 180)))
Kah = reemplazarTexto(Kah, ",", ".")
Eah = 0.5 * Val(Kah) * Val(gamaProm) * Val(H) * (Val(H) + 2 * Val(W))
Eah = reemplazarTexto(Eah, ",", ".")
Khs = Val(Aa) * 0.5

```

```

Khs = reemplazarTexto(Khs, ",", ".")
Kvs = Val(Khs) * 0.5
Kvs = reemplazarTexto(Kvs, ",", ".")
teta = Atn(Val(Khs) / (1 - Val(Kvs))) * 180 / PI
teta = reemplazarTexto(teta, ",", ".")
iAng = 0
iAng = reemplazarTexto(iAng, ",", ".")
beta = 0
beta = reemplazarTexto(beta, ",", ".")
difAng = Val(fi) - Val(teta) - Val(iAng)
difAng = reemplazarTexto(difAng, ",", ".")
delta = Val(fi) * 2 / 3
delta = reemplazarTexto(delta, ",", ".")
Kad = ((Cos((Val(fi) - Val(teta) - Val(beta)) * PI / 180)) ^ 2) / (Cos(Val(teta) * PI / 180) *
((Cos(Val(beta) * PI / 180)) ^ 2) * Cos((Val(
delta) + Val(beta) + Val(teta)) * PI / 180) * (1 + Sqr((Sin((Val(fi) + Val(delta)) * PI / 180) *
Sin((Val(difAng)) * PI / 180)) / (Cos((Val(
delta) + Val(beta) + Val(teta)) * PI / 180) * Cos((Val(iAng) - Val(beta)) * PI / 180)))) ^ 2)
Kad = reemplazarTexto(Kad, ",", ".")
Ead = 0.5 * Val(gamaProm) * (Val(H) ^ 2) * (1 - Val(Kvs)) * Val(Kad)
Ead = reemplazarTexto(Ead, ",", ".")
Eahc = Val(Eah) * Val(S)
Eahc = reemplazarTexto(Eahc, ",", ".")
Eadc = Val(Ead) * Val(S)
Eadc = reemplazarTexto(Eadc, ",", ".")
Y = Val(H) / 3
Y = reemplazarTexto(Y, ",", ".")
Yd = Val(H) * 2 / 3
Yd = reemplazarTexto(Yd, ",", ".")
Mv = Val(Eahc) * Val(Y)
Mv = reemplazarTexto(Mv, ",", ".")
Mvd = Val(Eadc) * Val(Yd)
Mvd = reemplazarTexto(Mvd, ",", ".")
FsdC = Val(miu) * Val(Ev) / Val(Eahc)
FsdC = reemplazarTexto(FsdC, ",", ".")
FsvC = Val(MeTot) / Val(Mv)
FsvC = reemplazarTexto(FsvC, ",", ".")
FsdS = Val(miu) * Val(Ev) / Val(Eadc)
FsdS = reemplazarTexto(FsdS, ",", ".")
FsvS = Val(MeTot) / Val(Mvd)
FsvS = reemplazarTexto(FsvS, ",", ".")
exc = (Val(B) / 2) - (Val(MeTot) - Val(Mv)) / Val(Ev)
exc = reemplazarTexto(exc, ",", ".")
ex = Val(B) / 6
ex = reemplazarTexto(ex, ",", ".")
exd = (Val(B) / 2) - (Val(MeTot) - Val(Mvd)) / Val(Ev)
exd = reemplazarTexto(exd, ",", ".")
Form3 - 2
Qmax = Val(Ev) * (1 + (6 * Val(exc) / Val(B))) / (Val(B) * Val(S))

```

```

Qmax = reemplazarTexto(Qmax, ",", ".")
Qmin = Val(Ev) * (1 - (6 * Val(exc) / Val(B))) / (Val(B) * Val(S))
Qmin = reemplazarTexto(Qmin, ",", ".")
Qmaxd = Val(Ev) * (1 + (6 * Val(exd) / Val(B))) / (Val(B) * Val(S))
Qmaxd = reemplazarTexto(Qmaxd, ",", ".")
Qmind = Val(Ev) * (1 - (6 * Val(exd) / Val(B))) / (Val(B) * Val(S))
Qmind = reemplazarTexto(Qmind, ",", ".")
temp = Round(Val(Khs), 2)
temp = reemplazarTexto(temp, ",", ".")
Label3.Caption = temp
temp = Round(Val(delta), 2)
temp = reemplazarTexto(temp, ",", ".")
Label5.Caption = temp
temp = Round(Val(Kah), 2)
temp = reemplazarTexto(temp, ",", ".")
Label7.Caption = temp
temp = Round(Val(Kad), 2)
temp = reemplazarTexto(temp, ",", ".")
Label9.Caption = temp
temp = Round(Val(Eahc), 2)
temp = reemplazarTexto(temp, ",", ".")
Label11.Caption = temp
temp = Round(Val(Eadc), 2)
temp = reemplazarTexto(temp, ",", ".")
Label13.Caption = temp
temp = Round(Val(Mv), 2)
temp = reemplazarTexto(temp, ",", ".")
Label17.Caption = temp
temp = Round(Val(Mvd), 2)
temp = reemplazarTexto(temp, ",", ".")
Label19.Caption = temp
temp = Round(Val(exc), 2)
temp = reemplazarTexto(temp, ",", ".")
Label21.Caption = temp
temp = Round(Val(exd), 2)
temp = reemplazarTexto(temp, ",", ".")
Label23.Caption = temp
temp = Round(Val(Fsdc), 2)
temp = reemplazarTexto(temp, ",", ".")
Label25.Caption = temp
temp = Round(Val(Fsds), 2)
temp = reemplazarTexto(temp, ",", ".")
Label27.Caption = temp
temp = Round(Val(Fsvc), 2)
temp = reemplazarTexto(temp, ",", ".")
Label29.Caption = temp
temp = Round(Val(Fsvs), 2)
temp = reemplazarTexto(temp, ",", ".")
Label31.Caption = temp

```

```

temp = Round(Val(Qmax), 2)
temp = reemplazarTexto(temp, ",", ".")
Label33.Caption = temp
temp = Round(Val(Qmin), 2)
temp = reemplazarTexto(temp, ",", ".")
Label35.Caption = temp
temp = Round(Val(Qmaxd), 2)
temp = reemplazarTexto(temp, ",", ".")
Label37.Caption = temp
temp = Round(Val(Qmind), 2)
temp = reemplazarTexto(temp, ",", ".")
Label39.Caption = temp
Chequeo = 0
If Val(exc) < Val(ex) Then
Label34.Caption = "OK"
Else
Label34.Caption = "No cumple, aumentar B"
Chequeo = Chequeo + 1
End If
If Val(exd) < Val(ex) Then
Label36.Caption = "OK"
Else
Label36.Caption = "No cumple, aumentar B"
Chequeo = Chequeo + 1
End If
If Val(Fsd) < Val(Fsdc) Then
Label8.Caption = "OK"
Else
Label8.Caption = "No cumple, aumentar peso del muro (B, a, c, d, ec)"
Chequeo = Chequeo + 1
End If
If 1.125 < Val(Fsds) Then
Label14.Caption = "OK"
Else
Label14.Caption = "No cumple, aumentar peso del muro (B, a, c, d, ec)"
Chequeo = Chequeo + 1
End If
If Val(Fsv) < Val(Fsvc) Then
Label18.Caption = "OK"
Else
Label18.Caption = "No cumple, aumentar peso del muro y/o ancho de la base (B, a, c, d, ec)"
Chequeo = Chequeo + 1
End If
If 1.5 < Val(Fsvs) Then
Label30.Caption = "OK"
Else
Label30.Caption = "No cumple, aumentar peso del muro y/o ancho de la base (B, a, c, d, ec)"

```



```

Chequeo = Chequeo + 1
End If
If Val(Qa) > Val(Qmax) Then
Label38.Caption = "OK"
Else
Label38.Caption = "No cumple, aumentar ancho de la base B"
Label43.Caption = "En caso de no cumplir la condicion de carga admisible, se debe
considerar hacer pilotes para evitar tener una base ta
n grande que se acerque al valor de la altura"
Chequeo = Chequeo + 1
End If
If Val(Qmin) > 0 Then
Label40.Caption = "OK"
Form3 - 3
Else
Label40.Caption = "No cumple, hay levantamiento del talon, aumentar f"
Chequeo = Chequeo + 1
End If
If Val(Qa * 1.33) > Val(Qmaxd) Then
Label41.Caption = "OK"
Else
Label41.Caption = "No cumple, aumentar ancho de la base B"
Label43.Caption = "En caso de no cumplir la condicion de carga admisible, se debe
considerar hacer pilotes para evitar tener una base ta
n grande que se acerque al valor de la altura"
Chequeo = Chequeo + 1
End If
If Val(Qmind) > 0 Then
Label42.Caption = "OK"
Else
Label42.Caption = "No cumple, hay levantamiento del talon, aumentar f"
Chequeo = Chequeo + 1
End If
If Val(Chequeo) > 0 Then
Command1.Caption = "< Regresar a Prediseño"
Mensaje "Hay " + Str(Chequeo) + " chequeos que no cumplen, por favor regresar al
prediseño."
Else
Command1.Caption = "Diseño >"
End If
End Sub
Public Sub Command1_Click()
If Val(Chequeo) > 0 Then
Unload Form3
Form2.Visible = True
Form2.Enabled = True
Else
Form3.Visible = False
Form3.Enabled = False

```

```

Form4.Visible = True
End If
End Sub
Private Sub Command2_Click()
Dialogo.ShowPrinter
Me.Refresh
Printer.Orientation = vbPRORLandscape
Printer.PaintPicture CaptureClient(Me), 500, 500, Printer.ScaleWidth, (Me.ScaleHeight *
Printer.ScaleWidth) / Me.ScaleWidth, , , Me.ScaleWid
th, Me.ScaleHeight
Printer.EndDoc
Mensaje "La impresión fue enviada a la impresora " + Printer.DeviceName
End Sub
Form3 - 1
VERSION 5.00
Object = "{F9043C88-F6F2-101A-A3C9-08002B2F49FB}#1.2#0"; "COMDLG32.OCX"
Begin VB.Form Form3
Caption = "Chequeo"
ClientHeight = 10920
ClientLeft = 60
ClientTop = 450
ClientWidth = 15930
Icon = (Icono)
LinkTopic = "Form3"
MDIChild = -1 'True
ScaleHeight = 10920
ScaleWidth = 15930
WindowState = 2 'Maximized
Begin VB.CommandButton Command2
Caption = "Imprimir "
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 855
Left = 9120
TabIndex = 64
Top = 9360
Visible = 0 'False
Width = 4935
End
Begin VB.PictureBox Picture1
AutoSize = -1 'True
Height = 7080

```

```

Left = 9000
Picture = (Mapa de bits)
ScaleHeight = 7020
ScaleWidth = 9120
TabIndex = 63
Top = 240
Width = 9180
End
Begin VB.CommandButton Command1
Caption = "C"
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 735
Left = 6120
TabIndex = 62
Top = 480
Width = 2415
End
Begin MSComDlg.CommonDialog Dialogo
Left = 9120
Top = 8760
_ExtentX = 847
_ExtentY = 847
_Version = 393216
End
Begin VB.Line Line6
X1 = 11160
X2 = 10920
Y1 = 3960
Y2 = 3720
End
Begin VB.Line Line5
X1 = 11160
X2 = 10920
Y1 = 3480
Y2 = 3720
End
Begin VB.Line Line4
X1 = 10920
X2 = 12960
Y1 = 3720
Y2 = 3720

```

```
End
Begin VB.Label Label43
AutoSize = -1 'True
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
ForeColor = &H000000FF&
Height = 195
Left = 480
TabIndex = 61
Top = 10440
Width = 75
End
Begin VB.Label Label42
AutoSize = -1 'True
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Form3 - 2
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
ForeColor = &H000000FF&
Height = 195
Left = 6720
TabIndex = 60
Top = 9840
Width = 75
End
Begin VB.Label Label41
AutoSize = -1 'True
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
```

```
ForeColor = &H000000FF&
Height = 195
Left = 6720
TabIndex = 59
Top = 9360
Width = 75
End
Begin VB.Label Label40
AutoSize = -1 'True
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
ForeColor = &H000000FF&
Height = 195
Left = 6720
TabIndex = 58
Top = 8880
Width = 75
End
Begin VB.Label Label38
AutoSize = -1 'True
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
ForeColor = &H000000FF&
Height = 195
Left = 6720
TabIndex = 57
Top = 8400
Width = 75
End
Begin VB.Label Label36
AutoSize = -1 'True
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
```

```
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
ForeColor = &H000000FF&
Height = 195
Left = 6360
TabIndex = 56
Top = 6000
Width = 75
End
Begin VB.Label Label34
AutoSize = -1 'True
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
ForeColor = &H000000FF&
Height = 195
Left = 6360
TabIndex = 55
Top = 5520
Width = 75
End
Begin VB.Label Label28
Caption = "kN/m2"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Form3 - 3
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 6120
TabIndex = 54
Top = 9840
Width = 615
End
Begin VB.Label Label26
```

```
Caption = "kN/m²"  
BeginProperty Font  
Name = "MS Sans Serif"  
Size = 8.25  
Charset = 0  
Weight = 700  
Underline = 0 'False'  
Italic = 0 'False'  
Strikethrough = 0 'False'  
EndProperty  
Height = 255  
Left = 6120  
TabIndex = 53  
Top = 9360  
Width = 615  
End  
Begin VB.Label Label24  
Caption = "kN/m²"  
BeginProperty Font  
Name = "MS Sans Serif"  
Size = 8.25  
Charset = 0  
Weight = 700  
Underline = 0 'False'  
Italic = 0 'False'  
Strikethrough = 0 'False'  
EndProperty  
Height = 255  
Left = 6120  
TabIndex = 52  
Top = 8880  
Width = 615  
End  
Begin VB.Label Label18  
AutoSize = -1 'True'  
BeginProperty Font  
Name = "MS Sans Serif"  
Size = 8.25  
Charset = 0  
Weight = 700  
Underline = 0 'False'  
Italic = 0 'False'  
Strikethrough = 0 'False'  
EndProperty  
ForeColor = &H000000FF&  
Height = 195  
Left = 6120  
TabIndex = 51  
Top = 7440
```

```
Width = 75
End
Begin VB.Label Label14
AutoSize = -1 'True
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
ForeColor = &H000000FF&
Height = 195
Left = 6120
TabIndex = 50
Top = 6960
Width = 75
End
Begin VB.Label Label8
AutoSize = -1 'True
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
ForeColor = &H000000FF&
Height = 195
Left = 6120
TabIndex = 49
Top = 6480
Width = 75
End
Begin VB.Label Label6
Caption = "kN*m"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
```



```
Height = 255
Left = 6120
TabIndex = 48
Form3 - 4
Top = 5040
Width = 495
End
Begin VB.Label Label39
Alignment = 1 'Right Justify
BorderStyle = 1 'Fixed Single
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 4800
TabIndex = 47
Top = 9840
Width = 1095
End
Begin VB.Label Label37
Alignment = 1 'Right Justify
BorderStyle = 1 'Fixed Single
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 4800
TabIndex = 46
Top = 9360
Width = 1095
End
Begin VB.Label Label35
Alignment = 1 'Right Justify
BorderStyle = 1 'Fixed Single
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
```

```
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 4800
TabIndex = 45
Top = 8880
Width = 1095
End
Begin VB.Label Label33
Alignment = 1 'Right Justify
BorderStyle = 1 'Fixed Single
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 4800
TabIndex = 44
Top = 8400
Width = 1095
End
Begin VB.Label Label32
Caption = "kN/m2"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 6120
TabIndex = 43
Top = 8400
Width = 615
End
Begin VB.Label Label31
Alignment = 1 'Right Justify
```

```
BorderStyle = 1 'Fixed Single
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 4800
TabIndex = 42
Top = 7920
Width = 1095
End
Form3 - 5
Begin VB.Label Label30
AutoSize = -1 'True
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
ForeColor = &H000000FF&
Height = 195
Left = 6120
TabIndex = 41
Top = 7920
Width = 75
End
Begin VB.Label Label29
Alignment = 1 'Right Justify
BorderStyle = 1 'Fixed Single
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 4800
```

```
TabIndex = 40
Top = 7440
Width = 1095
End
Begin VB.Label Label27
Alignment = 1 'Right Justify
BorderStyle = 1 'Fixed Single
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 4800
TabIndex = 39
Top = 6960
Width = 1095
End
Begin VB.Label Label25
Alignment = 1 'Right Justify
BorderStyle = 1 'Fixed Single
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 4800
TabIndex = 38
Top = 6480
Width = 1095
End
Begin VB.Label Label23
Alignment = 1 'Right Justify
BorderStyle = 1 'Fixed Single
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
```

```
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 4800
TabIndex = 37
Top = 6000
Width = 1095
End
Begin VB.Label Label22
Caption = "m"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 6120
TabIndex = 36
Top = 6000
Width = 255
End
Begin VB.Label Label21
Alignment = 1 'Right Justify
BorderStyle = 1 'Fixed Single
Form3 - 6
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 4800
TabIndex = 35
Top = 5520
Width = 1095
End
Begin VB.Label Label20
Caption = "m"
BeginProperty Font
Name = "MS Sans Serif"
```

```
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 6120
TabIndex = 34
Top = 5520
Width = 255
End
Begin VB.Label Label19
Alignment = 1 'Right Justify
BorderStyle = 1 'Fixed Single
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 4800
TabIndex = 33
Top = 5040
Width = 1095
End
Begin VB.Label Label17
Alignment = 1 'Right Justify
BorderStyle = 1 'Fixed Single
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 4800
TabIndex = 32
Top = 4560
Width = 1095
End
```

```
Begin VB.Label Label15
Caption = "kN*m"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 6120
TabIndex = 31
Top = 4560
Width = 495
End
Begin VB.Label Label13
Alignment = 1 'Right Justify
BorderStyle = 1 'Fixed Single
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 4800
TabIndex = 30
Top = 4080
Width = 1095
End
Begin VB.Label Label12
Caption = "kN"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Form3 - 7
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 6120
```

```
TabIndex = 29
Top = 4080
Width = 255
End
Begin VB.Label Label11
Alignment = 1 'Right Justify
BorderStyle = 1 'Fixed Single
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 4800
TabIndex = 28
Top = 3600
Width = 1095
End
Begin VB.Label Label10
Caption = "kN"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 6120
TabIndex = 27
Top = 3600
Width = 255
End
Begin VB.Label Label9
Alignment = 1 'Right Justify
BorderStyle = 1 'Fixed Single
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
```



```
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 4800
TabIndex = 26
Top = 2640
Width = 1095
End
Begin VB.Label Label7
Alignment = 1 'Right Justify
BorderStyle = 1 'Fixed Single
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 4800
TabIndex = 25
Top = 2160
Width = 1095
End
Begin VB.Label Label5
Alignment = 1 'Right Justify
BorderStyle = 1 'Fixed Single
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 4800
TabIndex = 24
Top = 1680
Width = 1095
End
Begin VB.Label Label4
Caption = ""
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
```

```

Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Form3 - 8
Height = 255
Left = 6120
TabIndex = 23
Top = 1680
Width = 255
End
Begin VB.Label Label2
Caption = "Coeficiente Activo Estatico (Ka):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Index = 2
Left = 480
TabIndex = 22
Top = 2160
Width = 4095
End
Begin VB.Label Label2
Caption = "Carga Minima Dinamica (qmind):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Index = 18
Left = 480
TabIndex = 21
Top = 9840
Width = 4095
End

```

```

Begin VB.Label Label2
Caption = "Carga Maxima Dinamica (qmaxd):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Index = 17
Left = 480
TabIndex = 20
Top = 9360
Width = 4095
End
Begin VB.Label Label2
Caption = "Carga Minima Estatica (qmin):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Index = 16
Left = 480
TabIndex = 19
Top = 8880
Width = 4095
End
Begin VB.Label Label2
Caption = "Carga Maxima Estatica (qmax):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Index = 15

```

```

Left = 480
TabIndex = 18
Top = 8400
Width = 4095
End
Begin VB.Label Label2
Caption = "Excentricidad Dinamica (exd):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Index = 14
Left = 480
Form3 - 9
TabIndex = 17
Top = 6000
Width = 4095
End
Begin VB.Label Label2
Caption = "Excentricidad Estatica (ex):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Index = 13
Left = 480
TabIndex = 16
Top = 5520
Width = 4095
End
Begin VB.Label Label2
Caption = "Seguridad al Volcamiento Dinamico (Fsvd):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700

```

```
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Index = 12
Left = 480
TabIndex = 15
Top = 7920
Width = 4095
End
Begin VB.Label Label2
Caption = "Seguridad al Deslizamiento Dimanico (Fsd):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Index = 11
Left = 480
TabIndex = 14
Top = 6960
Width = 4095
End
Begin VB.Label Label2
Caption = "Momento del Volcamiento Dinamico (Mvd):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Index = 10
Left = 480
TabIndex = 13
Top = 5040
Width = 4095
End
Begin VB.Label Label2
Caption = "Seguridad al Volcamiento Estatico (Fsv):"
```

```

BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Index = 9
Left = 480
TabIndex = 12
Top = 7440
Width = 4095
End
Begin VB.Label Label2
Caption = "Seguridad al Deslizamiento Estatico (Fsd):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Index = 8
Left = 480
TabIndex = 11
Top = 6480
Form3 - 10
Width = 4095
End
Begin VB.Label Label2
Caption = "Momento del Volcamiento Estatico (Mv):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Index = 7
Left = 480

```

```

TabIndex = 10
Top = 4560
Width = 4095
End
Begin VB.Label Label2
Caption = "Calculo Empujes, Momentos y Cargas"
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
ForeColor = &H000000FF&
Height = 255
Index = 19
Left = 480
TabIndex = 9
Top = 3120
Width = 4215
End
Begin VB.Label Label2
Caption = "Empuje Activo Dinamico Cooperante (Eadc):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Index = 6
Left = 480
TabIndex = 8
Top = 4080
Width = 4095
End
Begin VB.Label Label2
Caption = "Empuje Activo Horizontal Cooperante (Eahc):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False

```

```
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Index = 5
Left = 480
TabIndex = 7
Top = 3600
Width = 4095
End
Begin VB.Label Label2
Caption = "Coeficiente Activo Dinamico (Kad):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Index = 4
Left = 480
TabIndex = 6
Top = 2640
Width = 4095
End
Begin VB.Label Label2
Caption = "Coeficiente Sismico Vertical (Kv):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Index = 3
Left = 480
TabIndex = 5
Top = 2160
Width = 4095
Form3 - 11
End
Begin VB.Label Label16
BackStyle = 0 'Transparent
```



```

Caption = "d"
BeginProperty Font
Name = "GreekC"
Size = 9
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 3550
TabIndex = 4
Top = 1665
Width = 495
End
Begin VB.Label Label2
Caption = "Angulo de Friccion Pantalla -Suelo ():"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Index = 1
Left = 480
TabIndex = 3
Top = 1680
Width = 4095
End
Begin VB.Label Label1
Caption = "Chequeo de Factores de Seguridad y Capacidad Portante"
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
ForeColor = &H000000FF&
Height = 495
Left = 480
TabIndex = 2

```

```

Top = 480
Width = 4215
End
Begin VB.Label Label2
Caption = "Coeficiente Sismico Horizontal (Kh):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Index = 0
Left = 480
TabIndex = 1
Top = 1200
Width = 4095
End
Begin VB.Label Label3
Alignment = 1 'Right Justify
BorderStyle = 1 'Fixed Single
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 4800
TabIndex = 0
Top = 1200
Width = 1095
End
Begin VB.Shape Shape1
BorderWidth = 2
Height = 10095
Left = 240
Top = 240
Width = 8535
End
End
Form4 - 1
Private Sub Form_GotFocus()

```

```

Me.WindowState = 2
End Sub
Private Sub Form_Load()
Me.WindowState = 2
'On Error GoTo error_Handler
Combo1.Enabled = True
Combo2.Enabled = True
Combo3.Enabled = True
Combo4.Enabled = True
Combo5.Enabled = True
Combo6.Enabled = True
Combo7.Enabled = True
Combo8.Enabled = True
i = 0
For i = 1 To 3
E(i) = Val(Kad) * Val(gamaProm) * Val(g) * 1.4 * (4 - i) / 3
E(i) = reemplazarTexto(E(i), ",", ".")
Next i
i = 0
For i = 1 To 3
If i = 1 Then
Wf(i) = Val(E(4 - i)) / 2
Wf(i) = reemplazarTexto(Wf(i), ",", ".")
Else
Wf(i) = (Val(E(4 - i)) + Val(E(5 - i))) / 2
Wf(i) = reemplazarTexto(Wf(i), ",", ".")
End If
Next i
i = 0
Vadm = 0.85 * 1000 * Sqr(Val(Fc)) / 6
Vadm = reemplazarTexto(Vadm, ",", ".")
For i = 1 To 3
M1(i) = (1 / 16) * Val(Wf(i)) * Val(Sn) ^ 2
M1(i) = reemplazarTexto(M1(i), ",", ".")
M4(i) = M1(i)
M2(i) = (1 / 14) * Val(Wf(i)) * Val(Sn) ^ 2
M2(i) = reemplazarTexto(M2(i), ",", ".")
M3(i) = (1 / 10) * Val(Wf(i)) * Val(Sn) ^ 2
M3(i) = reemplazarTexto(M3(i), ",", ".")
M5(i) = (1 / 11) * Val(Wf(i)) * Val(Sn) ^ 2
M5(i) = reemplazarTexto(M5(i), ",", ".")
V1(i) = 0.5 * Val(Wf(i)) * Val(Sn)
V1(i) = reemplazarTexto(V1(i), ",", ".")
V2(i) = 0.58 * Val(Wf(i)) * Val(Sn)
V2(i) = reemplazarTexto(V2(i), ",", ".")
esp(i) = Val(dz) + (1 / 6) * Val(c) * (2 * i - 1)
esp(i) = reemplazarTexto(esp(i), ",", ".")
defec(i) = Val(esp(i)) - Val(d)
defec(i) = reemplazarTexto(defec(i), ",", ".")

```

```

Ro(i) = Cuantia(reemplazarTexto(Fc, ".", ","), reemplazarTexto(Fy, ".", ","), 1,
reemplazarTexto(esp(i), ".", ","), reemplazarTexto(d, "
.", ","), reemplazarTexto(M3(i), ".", ","))
Ro(i) = reemplazarTexto(Ro(i), ",", ".")
Ru(i) = Val(M3(i)) / Val(defec(i)) ^ 2
Ru(i) = reemplazarTexto(Ru(i), ",", ".")
dmin(i) = Sqr(Val(M3(i)) / (0.9 * Val(Ru(i))))
dmin(i) = reemplazarTexto(dmin(i), ",", ".")
Chequeo2 = 0
If Val(esp(i)) < Val(dmin(i)) Then
Mensaje "El espesor del muro no cumple con el espesor minimo por flexion, aumentar c
y/o d, el espesor minimo por flexion es 0" + St
r(Round(Val(dmin(i)), 2)) + " m"
Chequeo2 = Chequeo2 + 1
'Exit Sub
End If
Vcor(i) = Val(V2(i)) / Val(defec(i))
Vcor(i) = reemplazarTexto(Vcor(i), ",", ".")
If Val(Vadm) < Val(Vcor(i)) Then
Mensaje "Seccion " + Str(i) + ", el esfuerzo cortante no cumple, por favor aumentar c y/o
d"
Chequeo2 = Chequeo2 + 1
'Exit Sub
End If
If Chequeo2 > 0 Then
Command1.Caption = "< Regresar"
Combo1.Enabled = False
Combo2.Enabled = False
Combo3.Enabled = False
Combo4.Enabled = False
Combo5.Enabled = False
Combo6.Enabled = False
Combo7.Enabled = False
Combo8.Enabled = False
End If
Asr(i) = Val(Ro(i)) * Val(defec(i)) * 1000 * 1000
Asr(i) = reemplazarTexto(Asr(i), ",", ".")
Asmin(i) = 0.0033 * Val(defec(i)) * 1000 * 1000
Asmin(i) = reemplazarTexto(Asmin(i), ",", ".")
If Val(Asr(i)) < Asmin(i) Then
Asrc(i) = Val(Asmin(i))
Asrc(i) = reemplazarTexto(Asrc(i), ",", ".")
Else
Asrc(i) = Val(Asr(i))
Asrc(i) = reemplazarTexto(Asrc(i), ",", ".")
End If
Next i
AsminV = 0.0018 * (Val(c) + Val(dz) - Val(d)) * 1000 * 1000
AsminV = reemplazarTexto(AsminV, ",", ".")

```

```

AsminV1 = Val(AsminV) / 3
AsminV1 = reemplazarTexto(AsminV1, ",", ".")
AsminV2 = 2 * Val(AsminV) / 3
AsminV2 = reemplazarTexto(AsminV2, ",", ".")
Combo1.AddItem "N°2 - 1/4"
Combo1.AddItem "N°3 - 3/8"
Combo1.AddItem "N°4 - 1/2"
Combo1.AddItem "N°5 - 5/8"
Combo1.AddItem "N°6 - 3/4"
Combo1.AddItem "N°7 - 7/8"
Combo1.AddItem "N°8 - 1"
Combo1.AddItem "N°9 - 1 1/8"
Form4 - 2
Combo1.AddItem "N°10 - 1 1/4"
Combo1.AddItem "N°11 - 1 3/8"
Combo1.AddItem "N°14 - 1 3/4"
Combo1.AddItem "N°18 - 2 1/8"
Combo2.AddItem "N°2 - 1/4"
Combo2.AddItem "N°3 - 3/8"
Combo2.AddItem "N°4 - 1/2"
Combo2.AddItem "N°5 - 5/8"
Combo2.AddItem "N°6 - 3/4"
Combo2.AddItem "N°7 - 7/8"
Combo2.AddItem "N°8 - 1"
Combo2.AddItem "N°9 - 1 1/8"
Combo2.AddItem "N°10 - 1 1/4"
Combo2.AddItem "N°11 - 1 3/8"
Combo2.AddItem "N°14 - 1 3/4"
Combo2.AddItem "N°18 - 2 1/8"
Combo3.AddItem "N°2 - 1/4"
Combo3.AddItem "N°3 - 3/8"
Combo3.AddItem "N°4 - 1/2"
Combo3.AddItem "N°5 - 5/8"
Combo3.AddItem "N°6 - 3/4"
Combo3.AddItem "N°7 - 7/8"
Combo3.AddItem "N°8 - 1"
Combo3.AddItem "N°9 - 1 1/8"
Combo3.AddItem "N°10 - 1 1/4"
Combo3.AddItem "N°11 - 1 3/8"
Combo3.AddItem "N°14 - 1 3/4"
Combo3.AddItem "N°18 - 2 1/8"
Combo4.AddItem "N°2 - 1/4"
Combo4.AddItem "N°3 - 3/8"
Combo4.AddItem "N°4 - 1/2"
Combo4.AddItem "N°5 - 5/8"
Combo4.AddItem "N°6 - 3/4"
Combo4.AddItem "N°7 - 7/8"
Combo4.AddItem "N°8 - 1"
Combo4.AddItem "N°9 - 1 1/8"

```

Combo4.AddItem "N°10 - 1 1/4"
Combo4.AddItem "N°11 - 1 3/8"
Combo4.AddItem "N°14 - 1 3/4"
Combo4.AddItem "N°18 - 2 1/8"
Combo5.AddItem "N°2 - 1/4"
Combo5.AddItem "N°3 - 3/8"
Combo5.AddItem "N°4 - 1/2"
Combo5.AddItem "N°5 - 5/8"
Combo5.AddItem "N°6 - 3/4"
Combo5.AddItem "N°7 - 7/8"
Combo5.AddItem "N°8 - 1"
Combo5.AddItem "N°9 - 1 1/8"
Combo5.AddItem "N°10 - 1 1/4"
Combo5.AddItem "N°11 - 1 3/8"
Combo5.AddItem "N°14 - 1 3/4"
Combo5.AddItem "N°18 - 2 1/8"
Combo6.AddItem "N°2 - 1/4"
Combo6.AddItem "N°3 - 3/8"
Combo6.AddItem "N°4 - 1/2"
Combo6.AddItem "N°5 - 5/8"
Combo6.AddItem "N°6 - 3/4"
Combo6.AddItem "N°7 - 7/8"
Combo6.AddItem "N°8 - 1"
Combo6.AddItem "N°9 - 1 1/8"
Combo6.AddItem "N°10 - 1 1/4"
Combo6.AddItem "N°11 - 1 3/8"
Combo6.AddItem "N°14 - 1 3/4"
Combo6.AddItem "N°18 - 2 1/8"
Combo7.AddItem "N°2 - 1/4"
Combo7.AddItem "N°3 - 3/8"
Combo7.AddItem "N°4 - 1/2"
Combo7.AddItem "N°5 - 5/8"
Combo7.AddItem "N°6 - 3/4"
Combo7.AddItem "N°7 - 7/8"
Combo7.AddItem "N°8 - 1"
Combo7.AddItem "N°9 - 1 1/8"
Combo7.AddItem "N°10 - 1 1/4"
Combo7.AddItem "N°11 - 1 3/8"
Combo7.AddItem "N°14 - 1 3/4"
Combo7.AddItem "N°18 - 2 1/8"
Combo8.AddItem "N°2 - 1/4"
Combo8.AddItem "N°3 - 3/8"
Combo8.AddItem "N°4 - 1/2"
Combo8.AddItem "N°5 - 5/8"
Combo8.AddItem "N°6 - 3/4"
Combo8.AddItem "N°7 - 7/8"
Combo8.AddItem "N°8 - 1"
Combo8.AddItem "N°9 - 1 1/8"
Combo8.AddItem "N°10 - 1 1/4"

```

Combo8.AddItem "N°11 - 1 3/8"
Combo8.AddItem "N°14 - 1 3/4"
Combo8.AddItem "N°18 - 2 1/8"
Label12.Caption = Str(Round(Val(M1(1)), 2)) + " kN*m"
Label13.Caption = Str(Round(Val(M2(1)), 2)) + " kN*m"
Label14.Caption = Str(Round(Val(M3(1)), 2)) + " kN*m"
Label15.Caption = Str(Round(Val(M4(1)), 2)) + " kN*m"
Label16.Caption = Str(Round(Val(M5(1)), 2)) + " kN*m"
Label17.Caption = Str(Round(Val(V1(1)), 2)) + " kN"
Label18.Caption = Str(Round(Val(V2(1)), 2)) + " kN"
Label19.Caption = Str(Round(Val(V1(1)), 2)) + " kN"
Label20.Caption = Str(Round(Val(V1(1)), 2)) + " kN"
Label21.Caption = "SECCION 1"
Label22.Caption = Str(Round(Val(Sn), 2)) + " m"
Label23.Caption = Str(Round(Val(Wf(1)), 2)) + " Kn/m"
'MsgBox Asmin(3) + " " + defec(3) + " " + Ro(3) + " " + Asr(3)
'error_Handler:
'MsgBox Err.Description, vbCritica
End Sub
Public Sub Command1_Click()
If Val(Chequeo2) > 0 Then
Unload Form4
Form4 - 3
Unload Form3
Form2.Visible = True
Form2.Enabled = True
Else
temp = 0
If Combo1.ListIndex = -1 Then
temp = temp + 1
End If
If Combo2.ListIndex = -1 Then
temp = temp + 1
End If
If Combo3.ListIndex = -1 Then
temp = temp + 1
End If
If Combo4.ListIndex = -1 Then
temp = temp + 1
End If
If Combo5.ListIndex = -1 Then
temp = temp + 1
End If
If Combo6.ListIndex = -1 Then
temp = temp + 1
End If
If Combo7.ListIndex = -1 Then
temp = temp + 1
End If

```

```

If Combo8.ListIndex = -1 Then
temp = temp + 1
End If
If temp > 0 Then
Mensaje "Faltan seleccionar " + temp + " diametros de acero para continuar"
Exit Sub
End If
temp = 0
Form4.Enabled = False
Form4.Visible = False
Form5.Visible = True
End If
End Sub
Public Sub Combo1_Click()
temp = separacion(Val(Asrc(1)), Val(Combo1.ListIndex))
temp = reemplazarTexto(temp, ",", ".")
temp2 = Round(Val(g) / (Val(temp) * 3), 0) + 1
temp2 = reemplazarTexto(temp2, ",", ".")
cVarilla(1) = Val(temp2)
dVarilla(1) = VarNum(Val(Combo1.ListIndex))
Label1.Caption = "As=" + Asrc(1) + " mm2 - " + cVarilla(1) + " N° +
VarNum(Val(Combo1.ListIndex)) + " @" + Str(Round(100 * Val(temp), 0)) +
" cm"
End Sub
Public Sub Combo2_Click()
temp = separacion(Val(Asrc(2)), Val(Combo2.ListIndex))
temp = reemplazarTexto(temp, ",", ".")
temp2 = Round(Val(g) / (Val(temp) * 3), 0) + 1
temp2 = reemplazarTexto(temp2, ",", ".")
cVarilla(2) = Val(temp2)
dVarilla(2) = VarNum(Val(Combo2.ListIndex))
Label2.Caption = "As=" + Asrc(2) + " mm2 - " + cVarilla(2) + " N° +
VarNum(Val(Combo2.ListIndex)) + " @" + Str(Round(100 * Val(temp), 0)) +
" cm"
End Sub
Public Sub Combo3_Click()
temp = separacion(Val(Asrc(3)), Val(Combo3.ListIndex))
temp = reemplazarTexto(temp, ",", ".")
temp2 = Round(Val(g) / (Val(temp) * 3), 0) + 1
temp2 = reemplazarTexto(temp2, ",", ".")
cVarilla(3) = Val(temp2)
dVarilla(3) = VarNum(Val(Combo3.ListIndex))
Label3.Caption = "As=" + Asrc(3) + " mm2 - " + cVarilla(3) + " N° +
VarNum(Val(Combo3.ListIndex)) + " @" + Str(Round(100 * Val(temp), 0)) +
" cm"
End Sub
Public Sub Combo4_Click()
temp = separacion(Val(Asmin(1)), Val(Combo4.ListIndex))
temp = reemplazarTexto(temp, ",", ".")

```



```

temp2 = Round(Val(g) / (Val(temp) * 3), 0) + 1
temp2 = reemplazarTexto(temp2, ",", ".")
cVarilla(4) = Val(temp2)
dVarilla(4) = VarNum(Val(Combo4.ListIndex))
Label4.Caption = "As=" + Asmin(1) + " mm2 - " + cVarilla(4) + " N°" +
VarNum(Val(Combo4.ListIndex)) + " @" + Str(Round(100 * Val(temp), 0))
+ " cm"
End Sub
Public Sub Combo5_Click()
temp = separacion(Val(Asmin(2)), Val(Combo5.ListIndex))
temp = reemplazarTexto(temp, ",", ".")
temp2 = Round(Val(g) / (Val(temp) * 3), 0) + 1
temp2 = reemplazarTexto(temp2, ",", ".")
cVarilla(5) = Val(temp2)
dVarilla(5) = VarNum(Val(Combo5.ListIndex))
Label5.Caption = "As=" + Asmin(2) + " mm2 - " + cVarilla(5) + " N°" +
VarNum(Val(Combo5.ListIndex)) + " @" + Str(Round(100 * Val(temp), 0))
+ " cm"
End Sub
Public Sub Combo6_Click()
temp = separacion(Val(Asmin(3)), Val(Combo6.ListIndex))
temp = reemplazarTexto(temp, ",", ".")
temp2 = Round(Val(g) / (Val(temp) * 3), 0) + 1
temp2 = reemplazarTexto(temp2, ",", ".")
cVarilla(6) = Val(temp2)
dVarilla(6) = VarNum(Val(Combo6.ListIndex))
Label6.Caption = "As=" + Asmin(3) + " mm2 - " + cVarilla(6) + " N°" +
VarNum(Val(Combo6.ListIndex)) + " @" + Str(Round(100 * Val(temp), 0))
+ " cm"
End Sub
Public Sub Combo7_Click()
temp = separacion(Val(AsminV2), Val(Combo7.ListIndex))
temp = reemplazarTexto(temp, ",", ".")
Form4 - 4
temp2 = Round(Val(L) / (Val(temp)), 0) + 1
temp2 = reemplazarTexto(temp2, ",", ".")
cVarilla(7) = Val(temp2)
dVarilla(7) = VarNum(Val(Combo7.ListIndex))
Label7.Caption = "As=" + AsminV2 + " mm2 - " + cVarilla(7) + " N°" +
VarNum(Val(Combo7.ListIndex)) + " @" + Str(Round(100 * Val(temp), 0)) +
" cm"
End Sub
Public Sub Combo8_Click()
temp = separacion(Val(AsminV1), Val(Combo8.ListIndex))
temp = reemplazarTexto(temp, ",", ".")
temp2 = Round(Val(L) / (Val(temp)), 0) + 1
temp2 = reemplazarTexto(temp2, ",", ".")
cVarilla(8) = Val(temp2)
dVarilla(8) = VarNum(Val(Combo8.ListIndex))

```

```

Label8.Caption = "As=" + AsminV1 + " mm2 - " + cVarilla(8) + " N°" +
VarNum(Val(Combo8.ListIndex)) + " @" + Str(Round(100 * Val(temp), 0)) +
" cm"
End Sub
Private Sub Command2_Click()
Label12.Caption = Str(Round(Val(M1(1)), 2)) + " kN*m"
Label13.Caption = Str(Round(Val(M2(1)), 2)) + " kN*m"
Label14.Caption = Str(Round(Val(M3(1)), 2)) + " kN*m"
Label15.Caption = Str(Round(Val(M4(1)), 2)) + " kN*m"
Label16.Caption = Str(Round(Val(M5(1)), 2)) + " kN*m"
Label17.Caption = Str(Round(Val(V1(1)), 2)) + " kN"
Label18.Caption = Str(Round(Val(V2(1)), 2)) + " kN"
Label19.Caption = Str(Round(Val(V1(1)), 2)) + " kN"
Label20.Caption = Str(Round(Val(V1(1)), 2)) + " kN"
Label21.Caption = "SECCION 1"
Label22.Caption = Str(Round(Val(Sn), 2)) + " m"
Label23.Caption = Str(Round(Val(Wf(1)), 2)) + " Kn/m"
End Sub
Private Sub Command3_Click()
Label12.Caption = Str(Round(Val(M1(2)), 2)) + " kN*m"
Label13.Caption = Str(Round(Val(M2(2)), 2)) + " kN*m"
Label14.Caption = Str(Round(Val(M3(2)), 2)) + " kN*m"
Label15.Caption = Str(Round(Val(M4(2)), 2)) + " kN*m"
Label16.Caption = Str(Round(Val(M5(2)), 2)) + " kN*m"
Label17.Caption = Str(Round(Val(V1(2)), 2)) + " kN"
Label18.Caption = Str(Round(Val(V2(2)), 2)) + " kN"
Label19.Caption = Str(Round(Val(V1(2)), 2)) + " kN"
Label20.Caption = Str(Round(Val(V1(2)), 2)) + " kN"
Label21.Caption = "SECCION 2"
Label22.Caption = Str(Round(Val(Sn), 2)) + " m"
Label23.Caption = Str(Round(Val(Wf(2)), 2)) + " Kn/m"
End Sub
Private Sub Command4_Click()
Label12.Caption = Str(Round(Val(M1(3)), 2)) + " kN*m"
Label13.Caption = Str(Round(Val(M2(3)), 2)) + " kN*m"
Label14.Caption = Str(Round(Val(M3(3)), 2)) + " kN*m"
Label15.Caption = Str(Round(Val(M4(3)), 2)) + " kN*m"
Label16.Caption = Str(Round(Val(M5(3)), 2)) + " kN*m"
Label17.Caption = Str(Round(Val(V1(3)), 2)) + " kN"
Label18.Caption = Str(Round(Val(V2(3)), 2)) + " kN"
Label19.Caption = Str(Round(Val(V1(3)), 2)) + " kN"
Label20.Caption = Str(Round(Val(V1(3)), 2)) + " kN"
Label21.Caption = "SECCION 3"
Label22.Caption = Str(Round(Val(Sn), 2)) + " m"
Label23.Caption = Str(Round(Val(Wf(3)), 2)) + " Kn/m"
End Sub
Private Sub Command5_Click()
Dialogo.ShowPrinter
Me.Refresh

```

```

Printer.Orientation = vbPRORLandscape
Printer.PaintPicture CaptureClient(Me), 500, 500, Printer.ScaleWidth, (Me.ScaleHeight *
Printer.ScaleWidth) / Me.ScaleWidth, , , Me.ScaleWid
th, Me.ScaleHeight
Printer.EndDoc
Mensaje "La impresión fue enviada a la impresora " + Printer.DeviceName
End Sub
Form4 - 1
VERSION 5.00
Object = "{F9043C88-F6F2-101A-A3C9-08002B2F49FB}#1.2#0"; "COMDLG32.OCX"
Begin VB.Form Form4
Caption = "Diseño del Muro"
ClientHeight = 10530
ClientLeft = 60
ClientTop = 450
ClientWidth = 16800
Icon = (Icono)
LinkTopic = "Form4"
MDIChild = -1 'True
ScaleHeight = 10530
ScaleWidth = 16800
WindowState = 2 'Maximized
Begin VB.CommandButton Command5
Caption = "Imprimir "
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 735
Left = 12240
TabIndex = 37
Top = 2520
Visible = 0 'False
Width = 2535
End
Begin VB.CommandButton Command4
Caption = "SECCION 3"
Height = 495
Left = 9000
TabIndex = 36
Top = 3120
Width = 2055
End
Begin VB.CommandButton Command3

```

```

Caption = "SECCION 2"
Height = 495
Left = 9000
TabIndex = 35
Top = 1920
Width = 2055
End
Begin VB.CommandButton Command2
Caption = "SECCION 1"
Height = 495
Left = 9000
TabIndex = 34
Top = 600
Width = 2055
End
Begin VB.PictureBox Picture2
AutoSize = -1 'True
Height = 4620
Left = 240
Picture = (Mapa de bits)
ScaleHeight = 4560
ScaleWidth = 7620
TabIndex = 21
Top = 0
Width = 7680
Begin VB.Label Label23
AutoSize = -1 'True
Caption = "Wf"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 195
Left = 4680
TabIndex = 33
Top = 960
Width = 255
End
Begin VB.Label Label22
AutoSize = -1 'True
Caption = "SN"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25

```

```
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 195
Left = 4680
TabIndex = 32
Top = 1320
Width = 270
End
Begin VB.Label Label21
AutoSize = -1 'True
Caption = "SECCION"
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Form4 - 2
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 240
Left = 2880
TabIndex = 31
Top = 360
Width = 1005
End
Begin VB.Label Label20
AutoSize = -1 'True
Caption = "V1"
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 240
Left = 6600
TabIndex = 30
Top = 2880
Width = 285
End
```

```
Begin VB.Label Label19
AutoSize = -1 'True
Caption = "V1"
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 240
Left = 3120
TabIndex = 29
Top = 4080
Width = 285
End
Begin VB.Label Label18
AutoSize = -1 'True
BackStyle = 0 'Transparent
Caption = "V2"
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 240
Left = 3600
TabIndex = 28
Top = 2880
Width = 285
End
Begin VB.Label Label17
AutoSize = -1 'True
Caption = "V1"
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
```

```

Height = 240
Left = 240
TabIndex = 27
Top = 4200
Width = 285
End
Begin VB.Label Label16
AutoSize = -1 'True
Caption = "M5"
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 240
Left = 6360
TabIndex = 26
Top = 2640
Width = 315
End
Begin VB.Label Label15
AutoSize = -1 'True
Caption = "M4"
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False
Form4 - 3
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 240
Left = 4800
TabIndex = 25
Top = 1680
Width = 315
End
Begin VB.Label Label14
AutoSize = -1 'True
Caption = "M3"
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75

```

```
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 240
Left = 3240
TabIndex = 24
Top = 2640
Width = 315
End
Begin VB.Label Label13
AutoSize = -1 'True
Caption = "M2"
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 240
Left = 1680
TabIndex = 23
Top = 1680
Width = 315
End
Begin VB.Label Label12
AutoSize = -1 'True
Caption = "M1"
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 240
Left = 240
TabIndex = 22
Top = 2640
Width = 315
End
End
```



```
Begin VB.ComboBox Combo7
Height = 315
Left = 6480
TabIndex = 14
Text = "Seleccione"
Top = 9240
Width = 1350
End
Begin VB.ComboBox Combo8
Height = 315
Left = 12720
TabIndex = 15
Text = "Seleccione"
Top = 9240
Width = 1350
End
Begin VB.ComboBox Combo6
Height = 315
Left = 12600
TabIndex = 11
Text = "Seleccione"
Top = 8280
Width = 1350
End
Begin VB.ComboBox Combo5
Height = 315
Left = 12600
TabIndex = 10
Text = "Seleccione"
Top = 7200
Width = 1350
End
Begin VB.ComboBox Combo4
Height = 315
Left = 12600
TabIndex = 8
Text = "Seleccione"
Top = 6120
Width = 1350
End
Begin VB.CommandButton Command1
Caption = "Diseño Zarpa >"
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Form4 - 4
Weight = 700
Underline = 0 'False
```

```
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 735
Left = 12240
TabIndex = 0
Top = 1440
Width = 2535
End
Begin VB.PictureBox Picture1
AutoSize = -1 'True
Height = 6285
Left = 240
Picture = (Metarchivo)
ScaleHeight = 6225
ScaleWidth = 17925
TabIndex = 1
Top = 4680
Width = 17985
Begin VB.ComboBox Combo3
Height = 315
Left = 6240
TabIndex = 7
Text = "Seleccione"
Top = 3600
Width = 1350
End
Begin VB.ComboBox Combo2
Height = 315
Left = 6240
TabIndex = 6
Text = "Seleccione"
Top = 2520
Width = 1350
End
Begin VB.ComboBox Combo1
Height = 315
Left = 6240
TabIndex = 5
Text = "Seleccione"
Top = 1440
Width = 1350
End
Begin VB.Label Label11
BackStyle = 0 'Transparent
Caption = "Seccion 3"
BeginProperty Font
Name = "MS Sans Serif"
Size = 13.5
```

```
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 3240
TabIndex = 20
Top = 3480
Width = 1575
End
Begin VB.Label Label10
BackStyle = 0 'Transparent
Caption = "Seccion 2"
BeginProperty Font
Name = "MS Sans Serif"
Size = 13.5
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 495
Left = 3240
TabIndex = 19
Top = 2520
Width = 1575
End
Begin VB.Label Label9
BackStyle = 0 'Transparent
Caption = "Seccion 1"
BeginProperty Font
Name = "MS Sans Serif"
Size = 13.5
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 3240
TabIndex = 18
Top = 1560
Width = 1575
End
Begin VB.Label Label8
```

```
AutoSize = -1 'True
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Form4 - 5
Height = 195
Left = 13920
TabIndex = 17
Top = 4560
Width = 75
End
Begin VB.Label Label7
AutoSize = -1 'True
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 195
Left = 7680
TabIndex = 16
Top = 4560
Width = 75
End
Begin VB.Label Label6
AutoSize = -1 'True
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 195
Left = 13800
TabIndex = 13
Top = 3600
```

```
Width = 75
End
Begin VB.Label Label5
AutoSize = -1 'True
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 195
Left = 13800
TabIndex = 12
Top = 2520
Width = 75
End
Begin VB.Label Label4
AutoSize = -1 'True
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 195
Left = 13800
TabIndex = 9
Top = 1440
Width = 75
End
Begin VB.Label Label3
AutoSize = -1 'True
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 195
Left = 7680
```

```
TabIndex = 4
Top = 3600
Width = 75
End
Begin VB.Label Label2
AutoSize = -1 'True
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 195
Left = 7680
TabIndex = 3
Top = 2520
Width = 75
End
Begin VB.Label Label1
AutoSize = -1 'True
Form4 - 6
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 195
Left = 7680
TabIndex = 2
Top = 1440
Width = 75
End
End
Begin MSComDlg.CommonDialog Dialogo
Left = 13200
Top = 3240
_ExtentX = 847
_ExtentY = 847
_Version = 393216
End
End
Form5 - 1
```

```

Private Sub Form_GotFocus()
Me.WindowState = 2
End Sub
Private Sub Form_Load()
Me.WindowState = 2
QmaxMayP = Val(Qmax) * 1.7
QmaxMayP = reemplazarTexto(QmaxMayP, ",", ".")
QminMayP = Val(Qmin) * 1.7
QminMayP = reemplazarTexto(QminMayP, ",", ".")
QmPun = ((Val(B) - Val(bz)) * (Val(QmaxMayP) - Val(QminMayP))) / Val(B) +
Val(QminMayP)
QmPun = reemplazarTexto(QmPun, ",", ".")
A1p = Val(QmPun) * Val(bz) / 2
A1p = reemplazarTexto(A1p, ",", ".")
A2p = Val(QmaxMayP) * Val(bz) / 2
A2p = reemplazarTexto(A2p, ",", ".")
VuPun = Val(A1p) + Val(A2p)
VuPun = reemplazarTexto(VuPun, ",", ".")
VcorPun = Val(VuPun) / (Val(a) - Val(d))
VcorPun = reemplazarTexto(VcorPun, ",", ".")
Chequeo3 = 0
If Val(VcorPun) > Val(Vadm) Then
Mensaje "El esfuerzo por corte no cumple, aumentar el espesor de la zarpa a"
Chequeo3 = Chequeo3 + 1
Command1.Caption = "< Regresar a Prediseño"
Unload Form4
End If
MuPun = (Val(A1p) * Val(bz) / 3) + (2 * Val(A2p) * Val(bz) / 3)
MuPun = reemplazarTexto(MuPun, ",", ".")
defecPun = (Val(a) - Val(d))
defecPun = reemplazarTexto(defecPun, ",", ".")
RoPun = Cuantia(reemplazarTexto(Fc, ".", ","), reemplazarTexto(Fy, ".", ","), 1,
reemplazarTexto(a, ".", ","), reemplazarTexto(d, ".", ","),
reemplazarTexto(MuPun, ".", ","))
RoPun = reemplazarTexto(RoPun, ",", ".")
AsPun = Val(RoPun) * Val(defecPun) * 1000 * 1000
AsPun = reemplazarTexto(AsPun, ",", ".")
AsminPun = 0.0033 * Val(defecPun) * 1000 * 1000
AsminPun = reemplazarTexto(AsminPun, ",", ".")
AsminTPun = 0.0018 * Val(defecPun) * 1000 * 1000
AsminTPun = reemplazarTexto(AsminTPun, ",", ".")
AsminTPun1 = Val(AsminTPun) / 3
AsminTPun1 = reemplazarTexto(AsminTPun1, ",", ".")
AsminTPun2 = 2 * Val(AsminTPun) / 3
AsminTPun2 = reemplazarTexto(AsminTPun2, ",", ".")
If Val(AsPun) < Val(AsminPun) Then
AscPun = Val(AsminPun)
AscPun = reemplazarTexto(AscPun, ",", ".")
Else

```

```

AscPun = Val(AsPun)
AscPun = reemplazarTexto(AscPun, ",", ".")
End If
QmTal = ((Val(B) - Val(bz) - Val(c) - Val(dz)) * (Val(QmaxMayP) - Val(QminMayP)) /
Val(B)) + Val(QminMayP)
QmTal = reemplazarTexto(QmTal, ",", ".")
WT = Val(TotEv(4)) + Val(TotEv(5)) + Val(TotEv(6))
WT = reemplazarTexto(WT, ",", ".")
WTal = Val(f) * Val(a) * Val(S) * Val(gamaC)
WTal = reemplazarTexto(WTAl, ",", ".")
VuTal = (Val(WT) + Val(WTAl)) * 1.7
VuTal = reemplazarTexto(VuTal, ",", ".")
PresS = Val(VuTal) / (Val(f) * Val(S))
PresS = reemplazarTexto(PresS, ",", ".")
WTalMed = Val(PresS) - Val(QmTal)
WTalMed = reemplazarTexto(WTAlMed, ",", ".")
WTalMin = Val(PresS) - Val(QminMayP)
WTalMin = reemplazarTexto(WTAlMin, ",", ".")
If Val(WTAlMed) > Val(WTAlMin) Then
WTalc = Val(WTAlMed)
WTalc = reemplazarTexto(WTalc, ",", ".")
Else
WTalc = Val(WTAlMin)
WTalc = reemplazarTexto(WTalc, ",", ".")
End If
MTalPos = (Val(WTalc) * (Val(Sn) ^ 2)) / 12
MTalPos = reemplazarTexto(MTAlPos, ",", ".")
MTalNeg = (Val(WTalc) * (Val(Sn) ^ 2)) / 10
MTalNeg = reemplazarTexto(MTAlNeg, ",", ".")
If Val(MTAlPos) > Val(MTAlNeg) Then
MTal = Val(MTAlPos)
MTal = reemplazarTexto(MTAl, ",", ".")
Else
MTal = Val(MTAlNeg)
MTal = reemplazarTexto(MTAl, ",", ".")
End If
RoTal = Cuantia(reemplazarTexto(Fc, ".", ","), reemplazarTexto(Fy, ".", ","), 1,
reemplazarTexto(a, ".", ","), reemplazarTexto(d, ".", ","),
reemplazarTexto(MTAl, ".", ","))
RoTal = reemplazarTexto(RoTal, ",", ".")
AsTal = Val(RoTal) * Val(defecPun) * 1000 * 1000
AsTal = reemplazarTexto(AsTal, ",", ".")
AsminTal = 0.0033 * Val(defecPun) * 1000 * 1000
AsminTal = reemplazarTexto(AsminTal, ",", ".")
AsminTTal = 0.0018 * Val(defecPun) * 1000 * 1000
AsminTTal = reemplazarTexto(AsminTTal, ",", ".")
AsminTTal1 = Val(AsminTTal) / 3
AsminTTal1 = reemplazarTexto(AsminTTal1, ",", ".")
AsminTTal2 = 2 * Val(AsminTTal) / 3

```



```

AsminTTal2 = reemplazarTexto(AsminTTal2, ",", ".")
If Val(AsTal) < Val(AsminTal) Then
AsTalc = Val(AsminTal)
AsTalc = reemplazarTexto(AsTalc, ",", ".")
Else
AsTalc = Val(AsTal)
AsTalc = reemplazarTexto(AsTalc, ",", ".")
End If
Combo1.AddItem "N°2 - 1/4"
Combo1.AddItem "N°3 - 3/8"
Combo1.AddItem "N°4 - 1/2"
Combo1.AddItem "N°5 - 5/8"
Combo1.AddItem "N°6 - 3/4"
Combo1.AddItem "N°7 - 7/8"
Form5 - 2
Combo1.AddItem "N°8 - 1"
Combo1.AddItem "N°9 - 1 1/8"
Combo1.AddItem "N°10 - 1 1/4"
Combo1.AddItem "N°11 - 1 3/8"
Combo1.AddItem "N°14 - 1 3/4"
Combo1.AddItem "N°18 - 2 1/8"
Combo2.AddItem "N°2 - 1/4"
Combo2.AddItem "N°3 - 3/8"
Combo2.AddItem "N°4 - 1/2"
Combo2.AddItem "N°5 - 5/8"
Combo2.AddItem "N°6 - 3/4"
Combo2.AddItem "N°7 - 7/8"
Combo2.AddItem "N°8 - 1"
Combo2.AddItem "N°9 - 1 1/8"
Combo2.AddItem "N°10 - 1 1/4"
Combo2.AddItem "N°11 - 1 3/8"
Combo2.AddItem "N°14 - 1 3/4"
Combo2.AddItem "N°18 - 2 1/8"
Combo3.AddItem "N°2 - 1/4"
Combo3.AddItem "N°3 - 3/8"
Combo3.AddItem "N°4 - 1/2"
Combo3.AddItem "N°5 - 5/8"
Combo3.AddItem "N°6 - 3/4"
Combo3.AddItem "N°7 - 7/8"
Combo3.AddItem "N°8 - 1"
Combo3.AddItem "N°9 - 1 1/8"
Combo3.AddItem "N°10 - 1 1/4"
Combo3.AddItem "N°11 - 1 3/8"
Combo3.AddItem "N°14 - 1 3/4"
Combo3.AddItem "N°18 - 2 1/8"
Combo4.AddItem "N°2 - 1/4"
Combo4.AddItem "N°3 - 3/8"
Combo4.AddItem "N°4 - 1/2"
Combo4.AddItem "N°5 - 5/8"

```

```

Combo4.AddItem "N°6 - 3/4"
Combo4.AddItem "N°7 - 7/8"
Combo4.AddItem "N°8 - 1"
Combo4.AddItem "N°9 - 1 1/8"
Combo4.AddItem "N°10 - 1 1/4"
Combo4.AddItem "N°11 - 1 3/8"
Combo4.AddItem "N°14 - 1 3/4"
Combo4.AddItem "N°18 - 2 1/8"
Combo5.AddItem "N°2 - 1/4"
Combo5.AddItem "N°3 - 3/8"
Combo5.AddItem "N°4 - 1/2"
Combo5.AddItem "N°5 - 5/8"
Combo5.AddItem "N°6 - 3/4"
Combo5.AddItem "N°7 - 7/8"
Combo5.AddItem "N°8 - 1"
Combo5.AddItem "N°9 - 1 1/8"
Combo5.AddItem "N°10 - 1 1/4"
Combo5.AddItem "N°11 - 1 3/8"
Combo5.AddItem "N°14 - 1 3/4"
Combo5.AddItem "N°18 - 2 1/8"
Combo6.AddItem "N°2 - 1/4"
Combo6.AddItem "N°3 - 3/8"
Combo6.AddItem "N°4 - 1/2"
Combo6.AddItem "N°5 - 5/8"
Combo6.AddItem "N°6 - 3/4"
Combo6.AddItem "N°7 - 7/8"
Combo6.AddItem "N°8 - 1"
Combo6.AddItem "N°9 - 1 1/8"
Combo6.AddItem "N°10 - 1 1/4"
Combo6.AddItem "N°11 - 1 3/8"
Combo6.AddItem "N°14 - 1 3/4"
Combo6.AddItem "N°18 - 2 1/8"
End Sub
Private Sub Combo1_Click()
temp = separacion(Val(AsminTPun2), Val(Combo1.ListIndex))
temp = reemplazarTexto(temp, ",", ".")
temp2 = Round(Val(L) / (Val(temp)), 0) + 1
temp2 = reemplazarTexto(temp2, ",", ".")
cVarillaPunT2L = Val(temp2)
dVarillaPunT2L = VarNum(Val(Combo1.ListIndex))
Label1.Caption = "As=" + AsminTPun2 + " mm2 - " + cVarillaPunT2L + " N°" +
VarNum(Val(Combo1.ListIndex)) + " @" + Str(Round(100 * Val(temp),
0)) + " cm"
End Sub
Private Sub Combo2_Click()
temp = separacion(Val(AscPun), Val(Combo2.ListIndex))
temp = reemplazarTexto(temp, ",", ".")
temp2 = Round(Val(L) / (Val(temp)), 0) + 1
temp2 = reemplazarTexto(temp2, ",", ".")

```

```

cVarillaPun = Val(temp2)
dVarillaPun = VarNum(Val(Combo2.ListIndex))
Label2.Caption = "As=" + AscPun + " mm2 - " + cVarillaPun + " N°" +
VarNum(Val(Combo2.ListIndex)) + " @" + Str(Round(100 * Val(temp), 0)) +
" cm"
End Sub
Private Sub Combo3_Click()
temp = separacion(Val(AsTalc), Val(Combo3.ListIndex))
temp = reemplazarTexto(temp, ",", ".")
temp2 = Round(Val(L) / (Val(temp)), 0) + 1
temp2 = reemplazarTexto(temp2, ",", ".")
cVarillaTal = Val(temp2)
dVarillaTal = VarNum(Val(Combo3.ListIndex))
Label4.Caption = "As=" + AsTalc + " mm2 - " + cVarillaTal + " N°" +
VarNum(Val(Combo3.ListIndex)) + " @" + Str(Round(100 * Val(temp), 0)) +
" cm"
End Sub
Private Sub Combo4_Click()
temp = separacion(Val(AsminTTal1), Val(Combo4.ListIndex))
temp = reemplazarTexto(temp, ",", ".")
temp2 = Round(Val(L) / (Val(temp)), 0) + 1
temp2 = reemplazarTexto(temp2, ",", ".")
cVarillaTTal1 = Val(temp2)
dVarillaTTal1 = VarNum(Val(Combo4.ListIndex))
Label3.Caption = "As=" + AsminTTal1 + " mm2 - " + cVarillaTTal1 + " N°" +
VarNum(Val(Combo4.ListIndex)) + " @" + Str(Round(100 * Val(temp),
0)) + " cm"
Form5 - 3
End Sub
Private Sub Combo5_Click()
temp = separacion(Val(AsminTPun2), Val(Combo5.ListIndex))
temp = reemplazarTexto(temp, ",", ".")
temp2 = Round(Val(B) / (Val(temp)), 0) + 1
temp2 = reemplazarTexto(temp2, ",", ".")
cVarillaPunT2T = Val(temp2)
dVarillaPunT2T = VarNum(Val(Combo5.ListIndex))
Label5.Caption = "As=" + AsminTPun2 + " mm2 - " + cVarillaPunT2T + " N°" +
VarNum(Val(Combo5.ListIndex)) + " @" + Str(Round(100 * Val(temp),
0)) + " cm"
End Sub
Private Sub Combo6_Click()
temp = separacion(Val(AsminTPun), Val(Combo6.ListIndex))
temp = reemplazarTexto(temp, ",", ".")
temp2 = Round((Val(bz) + Val(c) + Val(dz)) / (Val(temp)), 0) + 1
temp2 = reemplazarTexto(temp2, ",", ".")
cVarillaPunT = Val(temp2)
dVarillaPunT = VarNum(Val(Combo6.ListIndex))
Label6.Caption = "As=" + AsminTPun + " mm2 - " + cVarillaPunT + " N°" +
VarNum(Val(Combo6.ListIndex)) + " @" + Str(Round(100 * Val(temp), 0))

```

```

) + " cm"
End Sub
Public Sub Command1_Click()
If Val(Chequeo3) > 0 Then
Unload Form5
Form2.Visible = True
Form2.Enabled = True
Else
temp = 0
If Combo1.ListIndex = -1 Then
temp = temp + 1
End If
If Combo2.ListIndex = -1 Then
temp = temp + 1
End If
If Combo3.ListIndex = -1 Then
temp = temp + 1
End If
If Combo4.ListIndex = -1 Then
temp = temp + 1
End If
If Combo5.ListIndex = -1 Then
temp = temp + 1
End If
If Combo6.ListIndex = -1 Then
temp = temp + 1
End If
If temp > 0 Then
Mensaje "Faltan seleccionar " + temp + " diametros de acero para continuar"
Exit Sub
End If
temp = 0
Form5.Enabled = False
Form5.Visible = False
Form6.Visible = True
End If
End Sub
Private Sub Command5_Click()
Printer.Orientation = vbPRORLandscape
Printer.PaintPicture CaptureClient(Me), 500, 500, Printer.ScaleWidth, (Me.ScaleHeight *
Printer.ScaleWidth) / Me.ScaleWidth, , , Me.ScaleWid
th, Me.ScaleHeight
Printer.EndDoc
Mensaje "La impresión fue enviada a la impresora " + Printer.DeviceName
End Sub
Sub text1_keypress(KeyAscii As Integer)
If Not IsNumeric(Chr(KeyAscii)) Then 'Evita que se escriban letras
If KeyAscii = Asc(",") Then 'pendiente revisar funcionamiento en windows 7 y 8
KeyAscii = Asc(".")

```

```

End If
If KeyAscii <> Asc(".") Then
If KeyAscii <> 8 Then
KeyAscii = 0
Exit Sub
End If
End If
End If
End Sub
Form5 - 1
VERSION 5.00
Object = "{F9043C88-F6F2-101A-A3C9-08002B2F49FB}#1.2#0"; "COMDLG32.OCX"
Begin VB.Form Form5
Caption = "Diseño de la Zarpa"
ClientHeight = 11340
ClientLeft = 60
ClientTop = 450
ClientWidth = 16215
Icon = (Icono)
LinkTopic = "Form5"
MDIChild = -1 'True
ScaleHeight = 11340
ScaleWidth = 16215
WindowState = 2 'Maximized
Begin VB.CommandButton Command5
Caption = "Imprimir "
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 735
Left = 13560
TabIndex = 17
Top = 1080
Visible = 0 'False
Width = 2535
End
Begin VB.CommandButton Command1
Caption = "Diseño Contrafuerte >"
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700

```

```
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 495
Left = 13560
TabIndex = 5
Top = 360
Width = 2535
End
Begin VB.PictureBox Picture1
AutoSize = -1 'True
Height = 4770
Left = 360
Picture = (Mapa de bits)
ScaleHeight = 4710
ScaleWidth = 12750
TabIndex = 0
Top = 360
Width = 12810
Begin VB.ComboBox Combo6
Height = 315
Left = 120
TabIndex = 14
Text = "Seleccione"
Top = 4200
Width = 1350
End
Begin VB.ComboBox Combo5
Height = 315
Left = 8280
TabIndex = 13
Text = "Seleccione"
Top = 3720
Width = 1350
End
Begin VB.ComboBox Combo2
Height = 315
Left = 5160
TabIndex = 4
Text = "Seleccione"
Top = 4320
Width = 1350
End
Begin VB.ComboBox Combo1
Height = 315
Left = 8160
TabIndex = 3
Text = "Seleccione"
```

```

Top = 1680
Width = 1350
End
Begin VB.Label Label7
AutoSize = -1 'True
Caption = "ACERO DEL PIE"
BeginProperty Font
Name = "MS Sans Serif"
Size = 12
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 300
Left = 9480
TabIndex = 15
Top = 240
Width = 2055
End
Begin VB.Label Label6
Caption = "Form5 - 2"
AutoSize = -1 'True
Caption = "As Temperatura"
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 240
Left = 120
TabIndex = 12
Top = 3840
Width = 1680
End
Begin VB.Label Label5
AutoSize = -1 'True
Caption = "As Temperatura"
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False

```

```
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 240
Left = 8280
TabIndex = 11
Top = 3360
Width = 1680
End
Begin VB.Label Label2
AutoSize = -1 'True
Caption = "Acero Flexion"
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 240
Left = 5160
TabIndex = 2
Top = 3960
Width = 1440
End
Begin VB.Label Label1
AutoSize = -1 'True
Caption = "As Temperatura"
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 240
Left = 8160
TabIndex = 1
Top = 1320
Width = 1680
End
End
Begin VB.PictureBox Picture2
AutoSize = -1 'True
Height = 5820
```



```

Left = 360
Picture = (Mapa de bits)
ScaleHeight = 5760
ScaleWidth = 12750
TabIndex = 6
Top = 5160
Width = 12810
Begin VB.ComboBox Combo4
Height = 315
Left = 6960
TabIndex = 10
Text = "Seleccione"
Top = 2040
Width = 1350
End
Begin VB.ComboBox Combo3
Height = 315
Left = 3960
TabIndex = 9
Text = "Seleccione"
Top = 4680
Width = 1350
End
Begin VB.Label Label8
AutoSize = -1 'True
Caption = "ACERO DEL TALON"
BeginProperty Font
Name = "MS Sans Serif"
Size = 12
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Form5 - 3
Height = 300
Left = 9600
TabIndex = 16
Top = 360
Width = 2475
End
Begin VB.Label Label4
AutoSize = -1 'True
Caption = "Acero Flexion"
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0

```

```

Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 240
Left = 3960
TabIndex = 8
Top = 5040
Width = 1440
End
Begin VB.Label Label3
AutoSize = -1 'True
Caption = "As Temperatura"
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 240
Left = 6960
TabIndex = 7
Top = 1680
Width = 1680
End
End
Begin MSComDlg.CommonDialog Dialogo
Left = 14520
Top = 1920
_ExtentX = 847
_ExtentY = 847
_Version = 393216
End
Begin VB.Line Line1
BorderWidth = 2
X1 = 240
X2 = 13320
Y1 = 5160
Y2 = 5160
End
Begin VB.Shape Shape1
BorderWidth = 2
Height = 10935
Left = 240
Top = 240

```

```

Width = 13095
End
End
Form6 - 1
Private Sub Form_GotFocus()
Me.WindowState = 2
End Sub
Private Sub Form_Load()
Me.WindowState = 2
Fcon(1) = Val(Wf(1)) * Val(S) * Val(g) / 3
Fcon(1) = reemplazarTexto(Fcon(1), ",", ".")
Fcon(2) = Val(Wf(2)) * Val(S) * Val(g) / 3 + Val(Fcon(1))
Fcon(2) = reemplazarTexto(Fcon(2), ",", ".")
Fcon(3) = Val(Wf(3)) * Val(S) * Val(g) / 3 + Val(Fcon(2))
Fcon(3) = reemplazarTexto(Fcon(3), ",", ".")
For i = 1 To 3
Ycon(i) = Val(g) * i / 9
Ycon(i) = reemplazarTexto(Ycon(i), ",", ".")
Mcon(i) = Val(Fcon(i)) * Val(Ycon(i))
Mcon(i) = reemplazarTexto(Mcon(i), ",", ".")
bcon(i) = Val(f) * i / 3
bcon(i) = reemplazarTexto(bcon(i), ",", ".")
bPrimcon(i) = Val(bcon(i)) * Cos(Atn(Val(f) / Val(g)))
bPrimcon(i) = reemplazarTexto(bPrimcon(i), ",", ".")
befeccon(i) = Val(bPrimcon(i)) - Val(d)
befeccon(i) = reemplazarTexto(befeccon(i), ",", ".")
Rocon(i) = Cuantia(reemplazarTexto(Fc, ".", ","), reemplazarTexto(Fy, ".", ","),
reemplazarTexto(befeccon(i), ".", ","), reemplazarTexto
(ec, ".", ","), reemplazarTexto(d, ".", ","), reemplazarTexto(Mcon(i), ".", ","))
Rocon(i) = reemplazarTexto(Rocon(i), ",", ".")
Ascon(i) = Val(Rocon(i)) * Val(befeccon(i)) * Val(ec) * 1000 * 1000
Ascon(i) = reemplazarTexto(Ascon(i), ",", ".")
Asconmin(i) = 0.0033 * Val(befeccon(i)) * Val(ec) * 1000 * 1000
Asconmin(i) = reemplazarTexto(Asconmin(i), ",", ".")
Next
For i = 1 To 3
If Asconmin(i) > Ascon(i) Then
Asconc(i) = Asconmin(i)
Asconc(i) = reemplazarTexto(Asconc(i), ",", ".")
Else
Asconc(i) = Ascon(i)
Asconc(i) = reemplazarTexto(Asconc(i), ",", ".")
End If
Next
Next
For i = 1 To 3
AsconH(i) = ((Val(V1(i)) + Val(V2(i))) * 1000) / (0.9 * Val(Fy) * 2)
AsconH(i) = reemplazarTexto(AsconH(i), ",", ".")
Next
R1 = 1.08 * (Val(PresS) - Val(QminMayP)) * Val(Sn)

```

```

R1 = reemplazarTexto(R1, ",", ".")
AsconV = (Val(R1) * 1000) / (0.9 * Val(Fy) * 2)
AsconV = reemplazarTexto(AsconV, ",", ".")
Combo1.AddItem "N°2 - 1/4"
Combo1.AddItem "N°3 - 3/8"
Combo1.AddItem "N°4 - 1/2"
Combo1.AddItem "N°5 - 5/8"
Combo1.AddItem "N°6 - 3/4"
Combo1.AddItem "N°7 - 7/8"
Combo1.AddItem "N°8 - 1"
Combo1.AddItem "N°9 - 1 1/8"
Combo1.AddItem "N°10 - 1 1/4"
Combo1.AddItem "N°11 - 1 3/8"
Combo1.AddItem "N°14 - 1 3/4"
Combo1.AddItem "N°18 - 2 1/8"
Combo2.AddItem "N°2 - 1/4"
Combo2.AddItem "N°3 - 3/8"
Combo2.AddItem "N°4 - 1/2"
Combo2.AddItem "N°5 - 5/8"
Combo2.AddItem "N°6 - 3/4"
Combo2.AddItem "N°7 - 7/8"
Combo2.AddItem "N°8 - 1"
Combo2.AddItem "N°9 - 1 1/8"
Combo2.AddItem "N°10 - 1 1/4"
Combo2.AddItem "N°11 - 1 3/8"
Combo2.AddItem "N°14 - 1 3/4"
Combo2.AddItem "N°18 - 2 1/8"
Combo3.AddItem "N°2 - 1/4"
Combo3.AddItem "N°3 - 3/8"
Combo3.AddItem "N°4 - 1/2"
Combo3.AddItem "N°5 - 5/8"
Combo3.AddItem "N°6 - 3/4"
Combo3.AddItem "N°7 - 7/8"
Combo3.AddItem "N°8 - 1"
Combo3.AddItem "N°9 - 1 1/8"
Combo3.AddItem "N°10 - 1 1/4"
Combo3.AddItem "N°11 - 1 3/8"
Combo3.AddItem "N°14 - 1 3/4"
Combo3.AddItem "N°18 - 2 1/8"
Combo4.AddItem "N°2 - 1/4"
Combo4.AddItem "N°3 - 3/8"
Combo4.AddItem "N°4 - 1/2"
Combo4.AddItem "N°5 - 5/8"
Combo4.AddItem "N°6 - 3/4"
Combo4.AddItem "N°7 - 7/8"
Combo4.AddItem "N°8 - 1"
Combo4.AddItem "N°9 - 1 1/8"
Combo4.AddItem "N°10 - 1 1/4"
Combo4.AddItem "N°11 - 1 3/8"

```

```

Combo4.AddItem "N°14 - 1 3/4"
Combo4.AddItem "N°18 - 2 1/8"
Combo5.AddItem "N°2 - 1/4"
Combo5.AddItem "N°3 - 3/8"
Combo5.AddItem "N°4 - 1/2"
Combo5.AddItem "N°5 - 5/8"
Combo5.AddItem "N°6 - 3/4"
Combo5.AddItem "N°7 - 7/8"
Combo5.AddItem "N°8 - 1"
Combo5.AddItem "N°9 - 1 1/8"
Combo5.AddItem "N°10 - 1 1/4"
Combo5.AddItem "N°11 - 1 3/8"
Combo5.AddItem "N°14 - 1 3/4"
Combo5.AddItem "N°18 - 2 1/8"
Combo6.AddItem "N°2 - 1/4"
Form6 - 2
Combo6.AddItem "N°3 - 3/8"
Combo6.AddItem "N°4 - 1/2"
Combo6.AddItem "N°5 - 5/8"
Combo6.AddItem "N°6 - 3/4"
Combo6.AddItem "N°7 - 7/8"
Combo6.AddItem "N°8 - 1"
Combo6.AddItem "N°9 - 1 1/8"
Combo6.AddItem "N°10 - 1 1/4"
Combo6.AddItem "N°11 - 1 3/8"
Combo6.AddItem "N°14 - 1 3/4"
Combo6.AddItem "N°18 - 2 1/8"
Combo7.AddItem "N°2 - 1/4"
Combo7.AddItem "N°3 - 3/8"
Combo7.AddItem "N°4 - 1/2"
Combo7.AddItem "N°5 - 5/8"
Combo7.AddItem "N°6 - 3/4"
Combo7.AddItem "N°7 - 7/8"
Combo7.AddItem "N°8 - 1"
Combo7.AddItem "N°9 - 1 1/8"
Combo7.AddItem "N°10 - 1 1/4"
Combo7.AddItem "N°11 - 1 3/8"
Combo7.AddItem "N°14 - 1 3/4"
Combo7.AddItem "N°18 - 2 1/8"
End Sub
Public Sub Command1_Click()
temp = 0
If Combo1.ListIndex = -1 Then
temp = temp + 1
End If
If Combo2.ListIndex = -1 Then
temp = temp + 1
End If
If Combo3.ListIndex = -1 Then

```

```

temp = temp + 1
End If
If Combo4.ListIndex = -1 Then
temp = temp + 1
End If
If Combo5.ListIndex = -1 Then
temp = temp + 1
End If
If Combo6.ListIndex = -1 Then
temp = temp + 1
End If
If Combo7.ListIndex = -1 Then
temp = temp + 1
End If
If temp > 0 Then
Mensaje "Faltan seleccionar " + temp + " diametros de acero para continuar"
Exit Sub
End If
temp = 0
Form6.Enabled = False
Form6.Visible = False
Form7.Visible = True
End Sub
Private Sub Command5_Click()
Dialogo.ShowPrinter
Me.Refresh
Printer.Orientation = vbPRORLandscape
Printer.PaintPicture CaptureClient(Me), 500, 500, Printer.ScaleWidth, (Me.ScaleHeight *
Printer.ScaleWidth) / Me.ScaleWidth, , , Me.ScaleWid
th, Me.ScaleHeight
Printer.EndDoc
Mensaje "La impresión fue enviada a la impresora " + Printer.DeviceName
End Sub
Private Sub Combo1_Click()
temp = separacion(Val(Asconc(1)), Val(Combo1.ListIndex))
temp = reemplazarTexto(temp, ",", ".")
temp2 = Round(Val(ec) / (Val(temp)), 0) + 1
temp2 = reemplazarTexto(temp2, ",", ".")
cVarillaCon(1) = Val(temp2)
dVarillaCon(1) = VarNum(Val(Combo1.ListIndex))
Label1.Caption = "As=" + Str(Round(Val(Asconc(1)), 0)) + " mm² - " + cVarillaCon(1) + "
Nº" + VarNum(Val(Combo1.ListIndex)) + " @" + Str(Rou
nd(100 * Val(temp), 0)) + " cm"
End Sub
Private Sub Combo2_Click()
temp = separacion(Val(Asconc(2)), Val(Combo2.ListIndex))
temp = reemplazarTexto(temp, ",", ".")
temp2 = Round(Val(ec) / (Val(temp)), 0) + 1
temp2 = reemplazarTexto(temp2, ",", ".")

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```

cVarillaCon(2) = Val(temp2)
dVarillaCon(2) = VarNum(Val(Combo2.ListIndex))
Label2.Caption = "As=" + Str(Round(Val(Asconc(2)), 0)) + " mm2 - " + cVarillaCon(2) + "
No + VarNum(Val(Combo2.ListIndex)) + " @" + Str(Rou
nd(100 * Val(temp), 0)) + " cm"
End Sub
Private Sub Combo3_Click()
temp = separacion(Val(Asconc(3)), Val(Combo3.ListIndex))
temp = reemplazarTexto(temp, ",", ".")
temp2 = Round(Val(ec) / (Val(temp)), 0) + 1
temp2 = reemplazarTexto(temp2, ",", ".")
cVarillaCon(3) = Val(temp2)
dVarillaCon(3) = VarNum(Val(Combo3.ListIndex))
Label3.Caption = "As=" + Str(Round(Val(Asconc(3)), 0)) + " mm2 - " + cVarillaCon(3) + "
No + VarNum(Val(Combo3.ListIndex)) + " @" + Str(Rou
nd(100 * Val(temp), 0)) + " cm"
End Sub
Private Sub Combo4_Click()
temp = separacion(Val(AsconH(1)), Val(Combo4.ListIndex))
temp = reemplazarTexto(temp, ",", ".")
temp2 = Round(Val(g) / (Val(temp) * 3), 0) + 1
temp2 = reemplazarTexto(temp2, ",", ".")
cVarillaConH(1) = Val(temp2)
dVarillaConH(1) = VarNum(Val(Combo4.ListIndex))
Label4.Caption = "As=" + Str(Round(Val(AsconH(1)), 0)) + " mm2 - " + cVarillaConH(1) + "
No + VarNum(Val(Combo4.ListIndex)) + " @" + Str(Ro
Form6 - 3
nd(100 * Val(temp), 0)) + " cm por cada lado"
End Sub
Private Sub Combo5_Click()
temp = separacion(Val(AsconH(2)), Val(Combo5.ListIndex))
temp = reemplazarTexto(temp, ",", ".")
temp2 = Round(Val(g) / (Val(temp) * 3), 0) + 1
temp2 = reemplazarTexto(temp2, ",", ".")
cVarillaConH(2) = Val(temp2)
dVarillaConH(2) = VarNum(Val(Combo5.ListIndex))
Label5.Caption = "As=" + Str(Round(Val(AsconH(2)), 0)) + " mm2 - " + cVarillaConH(2) + "
No + VarNum(Val(Combo5.ListIndex)) + " @" + Str(Ro
nd(100 * Val(temp), 0)) + " cm por cada lado"
End Sub
Private Sub Combo6_Click()
temp = separacion(Val(AsconH(3)), Val(Combo6.ListIndex))
temp = reemplazarTexto(temp, ",", ".")
temp2 = Round(Val(g) / (Val(temp) * 3), 0) + 1
temp2 = reemplazarTexto(temp2, ",", ".")
cVarillaConH(3) = Val(temp2)
dVarillaConH(3) = VarNum(Val(Combo6.ListIndex))
Label6.Caption = "As=" + Str(Round(Val(AsconH(3)), 0)) + " mm2 - " + cVarillaConH(3) + "
No + VarNum(Val(Combo6.ListIndex)) + " @" + Str(Ro

```

```

und(100 * Val(temp), 0)) + " cm por cada lado"
End Sub
Private Sub Combo7_Click()
temp = separacion(Val(AsconV), Val(Combo7.ListIndex))
temp = reemplazarTexto(temp, ",", ".")
temp2 = Round(Val(f) / (Val(temp)), 0) + 1
temp2 = reemplazarTexto(temp2, ",", ".")
cVarillaConV = Val(temp2)
dVarillaConV = VarNum(Val(Combo7.ListIndex))
Label7.Caption = "As=" + Str(Round(Val(AsconV), 0)) + " mm2 - " + cVarillaConV + " N°" +
VarNum(Val(Combo7.ListIndex)) + " @" + Str(Round(10
0 * Val(temp), 0)) + " cm por cada lado"
End Sub
Form6 - 1
VERSION 5.00
Object = "{F9043C88-F6F2-101A-A3C9-08002B2F49FB}#1.2#0"; "COMDLG32.OCX"
Begin VB.Form Form6
Caption = "Diseño del Contrafuerte"
ClientHeight = 10830
ClientLeft = 60
ClientTop = 450
ClientWidth = 16275
Icon = (Icono)
LinkTopic = "Form6"
MDIChild = -1 'True
ScaleHeight = 10830
ScaleWidth = 16275
WindowState = 2 'Maximized
Begin VB.CommandButton Command5
Caption = "Imprimir "
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 495
Left = 11640
TabIndex = 19
Top = 1320
Visible = 0 'False
Width = 2175
End
Begin VB.PictureBox Picture4
AutoSize = -1 'True
Height = 5025

```



```
Left = 8880
Picture = (Mapa de bits)
ScaleHeight = 4965
ScaleWidth = 7155
TabIndex = 4
Top = 5520
Width = 7215
Begin VB.ComboBox Combo7
Height = 315
Left = 120
TabIndex = 17
Text = "Seleccione"
Top = 2280
Width = 1350
End
Begin VB.Label Label7
AutoSize = -1 'True
Caption = "As Vertical"
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 240
Left = 120
TabIndex = 18
Top = 1920
Width = 1140
End
End
Begin VB.PictureBox Picture3
AutoSize = -1 'True
Height = 2625
Left = 9960
Picture = (Mapa de bits)
ScaleHeight = 2565
ScaleWidth = 6060
TabIndex = 3
Top = 2160
Width = 6120
End
Begin VB.PictureBox Picture2
AutoSize = -1 'True
Height = 5625
Left = 240
```

```
Picture = (Mapa de bits)
ScaleHeight = 5565
ScaleWidth = 8490
TabIndex = 2
Top = 5280
Width = 8550
Begin VB.ComboBox Combo6
Height = 315
Left = 3600
TabIndex = 15
Text = "Seleccione"
Top = 3600
Width = 1350
End
Begin VB.ComboBox Combo5
Height = 315
Left = 2640
TabIndex = 13
Text = "Seleccione"
Top = 2400
Width = 1350
End
Begin VB.ComboBox Combo4
Height = 315
Left = 1200
TabIndex = 11
Form6 - 2
Text = "Seleccione"
Top = 510
Width = 1350
End
Begin VB.Label Label6
AutoSize = -1 'True
Caption = "As Horizontal Seccion 3"
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 240
Left = 3600
TabIndex = 16
Top = 3240
Width = 2475
End
```

```

Begin VB.Label Label5
AutoSize = -1 'True
Caption = "As Horizontal Seccion 2"
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 240
Left = 2640
TabIndex = 14
Top = 2040
Width = 2475
End
Begin VB.Label Label4
AutoSize = -1 'True
Caption = "As Horizontal Seccion 1"
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 240
Left = 1200
TabIndex = 12
Top = 150
Width = 2475
End
End
Begin VB.PictureBox Picture1
AutoSize = -1 'True
Height = 5040
Left = 240
Picture = (Mapa de bits)
ScaleHeight = 4980
ScaleWidth = 8190
TabIndex = 1
Top = 240
Width = 8250
Begin VB.ComboBox Combo3
Height = 315

```

```
Left = 4560
TabIndex = 9
Text = "Seleccione"
Top = 2880
Width = 1350
End
Begin VB.ComboBox Combo2
Height = 315
Left = 3600
TabIndex = 7
Text = "Seleccione"
Top = 1560
Width = 1350
End
Begin VB.ComboBox Combo1
Height = 315
Left = 2640
TabIndex = 5
Text = "Seleccione"
Top = 480
Width = 1350
End
Begin VB.Label Label3
AutoSize = -1 'True
Caption = "As Tension Seccion 3"
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 240
Left = 4560
TabIndex = 10
Top = 2520
Width = 2265
Form6 - 3
End
Begin VB.Label Label2
AutoSize = -1 'True
Caption = "As Tension Seccion 2"
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
```

```
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 240
Left = 3600
TabIndex = 8
Top = 1200
Width = 2265
End
Begin VB.Label Label1
AutoSize = -1 'True
Caption = "As Tension Seccion 1"
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 240
Left = 2640
TabIndex = 6
Top = 120
Width = 2265
End
End
Begin VB.CommandButton Command1
Caption = "Presupuesto >"
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 495
Left = 11640
TabIndex = 0
Top = 600
Width = 2175
End
Begin MSComDlg.CommonDialog Dialogo
Left = 14040
Top = 1320
```

```

_ExtentX = 847
_ExtentY = 847
_Version = 393216
End
End
Form7 - 1
Private Sub Form_GotFocus()
Me.WindowState = 2
End Sub
Private Sub Form_Load()
Me.WindowState = 2
nCon = Round((Val(L) / Val(S)), 0) + 2
VolMuro = (((Val(TotEv(1)) + Val(TotEv(2)) + Val(TotEv(3))) * Val(L)) / (Val(S) *
Val(gamaC))) + ((Val(TotEv(4)) / Val(gamaC)) * Val(nCon))
VolMuro = reemplazarTexto(VolMuro, ",", ".")
Label8.Caption = VolMuro
WvarT = 0
temp = 0
temp2 = 0
For i = 1 To 6
temp = PesoVar(reemplazarTexto(dVarilla(i), ".", ","))
temp2 = GanchoVar(reemplazarTexto(dVarilla(i), ".", ","))
WvarT = Val(WvarT) + temp * Val(cVarilla(i)) * (Val(L) - (Val(d) * 2) + (temp2 * 2))
WvarT = reemplazarTexto(WvarT, ",", ".")
Next
temp = PesoVar(reemplazarTexto(dVarilla(7), ".", ","))
temp2 = GanchoVar(reemplazarTexto(dVarilla(7), ".", ","))
WvarT = Val(WvarT) + temp * Val(cVarilla(7)) * (Val(H) - (Val(d) * 2) + temp2 + 1)
WvarT = reemplazarTexto(WvarT, ",", ".")
temp = PesoVar(reemplazarTexto(dVarilla(8), ".", ","))
temp2 = GanchoVar(reemplazarTexto(dVarilla(8), ".", ","))
WvarT = Val(WvarT) + temp * Val(cVarilla(8)) * (Val(H) - (Val(d) * 2) + temp2 + 1)
WvarT = reemplazarTexto(WvarT, ",", ".")
temp = PesoVar(reemplazarTexto(dVarillaPunT, ".", ","))
temp2 = GanchoVar(reemplazarTexto(dVarillaPunT, ".", ","))
WvarT = Val(WvarT) + temp * Val(cVarillaPunT) * (Val(L) - (Val(d) * 2) + (temp2 * 2))
WvarT = reemplazarTexto(WvarT, ",", ".")
temp = PesoVar(reemplazarTexto(dVarillaPun, ".", ","))
temp2 = GanchoVar(reemplazarTexto(dVarillaPun, ".", ","))
WvarT = Val(WvarT) + temp * Val(cVarillaPun) * (Val(bz) + Val(c) + Val(dz) - (Val(d) * 3) +
Val(a) + temp2 + 0.5)
WvarT = reemplazarTexto(WvarT, ",", ".")
temp = PesoVar(reemplazarTexto(dVarillaPunT2L, ".", ","))
temp2 = GanchoVar(reemplazarTexto(dVarillaPunT2L, ".", ","))
WvarT = Val(WvarT) + temp * Val(cVarillaPunT2L) * (Val(L) - (Val(d) * 2) + (temp2 * 2))
WvarT = reemplazarTexto(WvarT, ",", ".")
temp = PesoVar(reemplazarTexto(dVarillaPunT2T, ".", ","))
temp2 = GanchoVar(reemplazarTexto(dVarillaPunT2T, ".", ","))
WvarT = Val(WvarT) + temp * Val(cVarillaPunT2T) * (Val(B) - (Val(d) * 2) + (temp2 * 2))

```

```

WvarT = reemplazarTexto(WvarT, ",", ".")
temp = PesoVar(reemplazarTexto(dVarillaTal, ".", ","))
temp2 = GanchoVar(reemplazarTexto(dVarillaTal, ".", ","))
WvarT = Val(WvarT) + temp * Val(cVarillaTal) * (Val(f) + Val(dz) + Val(c) - (Val(d) * 3) +
Val(a) + temp2 + 0.5)
WvarT = reemplazarTexto(WvarT, ",", ".")
temp = PesoVar(reemplazarTexto(dVarillaTTal1, ".", ","))
temp2 = GanchoVar(reemplazarTexto(dVarillaTTal1, ".", ","))
WvarT = Val(WvarT) + temp * Val(cVarillaTTal1) * (Val(L) - (Val(d) * 2) + (temp2 * 2))
WvarT = reemplazarTexto(WvarT, ",", ".")
For i = 1 To 3
temp = PesoVar(reemplazarTexto(dVarillaCon(i), ".", ","))
temp2 = GanchoVar(reemplazarTexto(dVarillaCon(i), ".", ","))
WvarT = Val(WvarT) + temp * Val(cVarillaCon(i)) * ((Sqr(Val(f) ^ 2 + Val(g) ^ 2) * (4 - i) / 3)
+ Val(dz) + Val(a) - (Val(d) * 2) + (temp2 *
2)) * nCon * 2
WvarT = reemplazarTexto(WvarT, ",", ".")
temp = PesoVar(reemplazarTexto(dVarillaConH(i), ".", ","))
temp2 = GanchoVar(reemplazarTexto(dVarillaConH(i), ".", ","))
WvarT = Val(WvarT) + temp * Val(cVarillaConH(i)) * (Val(f) * ((i / 3) - (1 / 6)) + Val(dz) -
(Val(d) * 2) + (temp2 * 2)) * nCon * 2
WvarT = reemplazarTexto(WvarT, ",", ".")
Next
temp = PesoVar(reemplazarTexto(dVarillaConV, ".", ","))
temp2 = GanchoVar(reemplazarTexto(dVarillaConV, ".", ","))
WvarT = Val(WvarT) + temp * Val(cVarillaConV) * ((Val(g) / 2) + Val(a) - (Val(d) * 2) +
(temp2 * 2)) * nCon * 2
WvarT = reemplazarTexto(WvarT, ",", ".")
MDIForm1.Ingreso.Enabled = True
MDIForm1.Prediseño.Enabled = True
MDIForm1.ChequeoM.Enabled = True
MDIForm1.DiseñoMuro.Enabled = True
MDIForm1.DiseñoZarpa.Enabled = True
MDIForm1.DiseñoContrafuerte.Enabled = True
MDIForm1.Presupuesto.Enabled = True
MDIForm1.Guardar.Enabled = True
MDIForm1.DiseñarNuevo.Enabled = True
MDIForm1.ImprimirTodo.Enabled = True
Form1.Command2.Visible = True
Form2.Command2.Visible = True
Form3.Command2.Visible = True
Form4.Command5.Visible = True
Form5.Command5.Visible = True
Form6.Command5.Visible = True
Form7.Command5.Visible = True
Form1.Enabled = True
Form2.Enabled = True
Form3.Enabled = True
Form4.Enabled = True

```

Form5.Enabled = True
Form6.Enabled = True
Form7.Enabled = True
Form1.Text1.Enabled = False
Form1.Text2.Enabled = False
Form1.Text3.Enabled = False
Form1.Text5.Enabled = False
Form1.Text6.Enabled = False
Form1.Text7.Enabled = False
Form1.Text8.Enabled = False
Form1.Text9.Enabled = False
Form1.Text10.Enabled = False
Form1.Text11.Enabled = False
Form1.Text12.Enabled = False
Form1.Text13.Enabled = False
Form1.Text14.Enabled = False
Form1.Text15.Enabled = False
Form1.Text16.Enabled = False
Form1.Command1.Enabled = False
Form2.Text1.Enabled = False
Form2.Text2.Enabled = False
Form2.Text3.Enabled = False
Form7 - 2
Form2.Text4.Enabled = False
Form2.Text5.Enabled = False
Form2.Text8.Enabled = False
Form2.Text9.Enabled = False
Form2.Text10.Enabled = False
Form2.Command1.Enabled = False
Form3.Command1.Enabled = False
Form4.Command1.Enabled = False
Form4.Combo1.Enabled = False
Form4.Combo2.Enabled = False
Form4.Combo3.Enabled = False
Form4.Combo4.Enabled = False
Form4.Combo5.Enabled = False
Form4.Combo6.Enabled = False
Form4.Combo7.Enabled = False
Form4.Combo8.Enabled = False
Form5.Command1.Enabled = False
Form5.Combo1.Enabled = False
Form5.Combo2.Enabled = False
Form5.Combo3.Enabled = False
Form5.Combo4.Enabled = False
Form5.Combo5.Enabled = False
Form5.Combo6.Enabled = False
Form6.Command1.Enabled = False
Form6.Combo1.Enabled = False
Form6.Combo2.Enabled = False


```

Form6.Combo3.Enabled = False
Form6.Combo4.Enabled = False
Form6.Combo5.Enabled = False
Form6.Combo6.Enabled = False
Form6.Combo7.Enabled = False
Label10.Caption = Round(Val(WvarT), 2)
ValConcreto = Val(Text1.Text)
ValConcreto = reemplazarTexto(ValConcreto, ",", ".")
ValAcero = Val(Text2.Text)
ValAcero = reemplazarTexto(ValAcero, ",", ".")
'Text1.Text = Format(ValConcreto, "$ #,##0.00")
'Text2.Text = Format(ValAcero, "$ #,##0.00")
TValConcreto = Val(VolMuro) * Val(ValConcreto)
TValConcreto = reemplazarTexto(TValConcreto, ",", ".")
TValAcero = Val(WvarT) * Val(ValAcero)
TValAcero = reemplazarTexto(TValAcero, ",", ".")
TotPres = Val(TValConcreto) + Val(TValAcero)
TotPres = reemplazarTexto(TotPres, ",", ".")
Label9.Caption = Format(Round(Val(TValConcreto), 0), "$ #,##0.00")
Label11.Caption = Format(Round(Val(TValAcero), 0), "$ #,##0.00")
Label12.Caption = Format(Round(Val(TotPres), 0), "$ #,##0.00")
End Sub
Private Sub Command1_Click()
ValConcreto = Val(Text1.Text)
ValConcreto = reemplazarTexto(ValConcreto, ",", ".")
ValAcero = Val(Text2.Text)
ValAcero = reemplazarTexto(ValAcero, ",", ".")
'Text1.Text = Format(ValConcreto, "$ #,##0.00")
'Text2.Text = Format(ValAcero, "$ #,##0.00")
TValConcreto = Val(VolMuro) * Val(ValConcreto)
TValConcreto = reemplazarTexto(TValConcreto, ",", ".")
TValAcero = Val(WvarT) * Val(ValAcero)
TValAcero = reemplazarTexto(TValAcero, ",", ".")
TotPres = Val(TValConcreto) + Val(TValAcero)
TotPres = reemplazarTexto(TotPres, ",", ".")
Label9.Caption = Format(Round(Val(TValConcreto), 0), "$ #,##0.00")
Label11.Caption = Format(Round(Val(TValAcero), 0), "$ #,##0.00")
Label12.Caption = Format(Round(Val(TotPres), 0), "$ #,##0.00")
End Sub
Private Sub Command5_Click()
Dialogo.ShowPrinter
Me.Refresh
Printer.Orientation = vbPRORLandscape
Printer.PaintPicture CaptureClient(Me), 500, 500, Printer.ScaleWidth, (Me.ScaleHeight *
Printer.ScaleWidth) / Me.ScaleWidth, , , Me.ScaleWid
th, Me.ScaleHeight
Printer.EndDoc
Mensaje "La impresión fue enviada a la impresora " + Printer.DeviceName
End Sub

```

```

Sub text1_keypress(KeyAscii As Integer)
If Not IsNumeric(Chr(KeyAscii)) Then 'Evita que se encriban letras
If KeyAscii = Asc(",") Then 'pendiente revisar funcionamiento en windows 7 y 8
KeyAscii = Asc(".")
End If
If KeyAscii <> Asc(".") Then
If KeyAscii <> 8 Then
KeyAscii = 0
Exit Sub
End If
End If
End If
End Sub
Sub text2_keypress(KeyAscii As Integer)
If Not IsNumeric(Chr(KeyAscii)) Then 'Evita que se encriban letras
If KeyAscii = Asc(",") Then 'pendiente revisar funcionamiento en windows 7 y 8
KeyAscii = Asc(".")
End If
If KeyAscii <> Asc(".") Then
If KeyAscii <> 8 Then
KeyAscii = 0
Exit Sub
End If
End If
End If
End Sub
Form7 - 1
VERSION 5.00
Object = "{F9043C88-F6F2-101A-A3C9-08002B2F49FB}#1.2#0"; "COMDLG32.OCX"
Begin VB.Form Form7
Caption = "Presupuesto"
ClientHeight = 9345
ClientLeft = 60
ClientTop = 450
ClientWidth = 13290
Icon = (Icono)
LinkTopic = "Form7"
MDIChild = -1 'True
ScaleHeight = 9345
ScaleWidth = 13290
WindowState = 2 'Maximized
Begin VB.CommandButton Command5
Caption = "Imprimir "
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False

```

```

Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 735
Left = 720
TabIndex = 15
Top = 5280
Visible = 0 'False
Width = 6255
End
Begin VB.CommandButton Command1
Caption = "Calcular Presupuesto"
BeginProperty Font
Name = "MS Sans Serif"
Size = 12
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 735
Left = 720
TabIndex = 14
Top = 4080
Width = 6255
End
Begin VB.TextBox Text2
Alignment = 1 'Right Justify
BeginProperty DataFormat
Type = 1
Format = """"$"" #.##0"
HaveTrueFalseNull= 0
FirstDayOfWeek = 0
FirstWeekOfYear = 0
LCID = 9226
SubFormatType = 2
EndProperty
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 4320

```

```

TabIndex = 13
Text = "2500"
Top = 2520
Width = 2655
End
Begin VB.TextBox Text1
Alignment = 1 'Right Justify
BeginProperty DataFormat
Type = 1
Format = """$" #.##0"
HaveTrueFalseNull= 0
FirstDayOfWeek = 0
FirstWeekOfYear = 0
LCID = 9226
SubFormatType = 2
EndProperty
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 375
Left = 4320
TabIndex = 12
Text = "240000"
Top = 1080
Width = 2655
End
Begin MSComDlg.CommonDialog Dialogo
Left = 7320
Top = 480
_ExtentX = 847
_ExtentY = 847
_Version = 393216
End
Form7 - 2
Begin VB.Shape Shape1
BorderWidth = 2
Height = 4695
Left = 360
Top = 360
Width = 6855
End
Begin VB.Label Label12
Alignment = 1 'Right Justify

```

```

BorderStyle = 1 'Fixed Single
Caption = "1"
BeginProperty DataFormat
Type = 1
Format = """$" #.##0"
HaveTrueFalseNull= 0
FirstDayOfWeek = 0
FirstWeekOfYear = 0
LCID = 9226
SubFormatType = 2
EndProperty
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
ForeColor = &H000000FF&
Height = 375
Left = 4320
TabIndex = 11
Top = 3480
Width = 2655
End
Begin VB.Label Label11
Alignment = 1 'Right Justify
BorderStyle = 1 'Fixed Single
Caption = "1"
BeginProperty DataFormat
Type = 1
Format = """$" #.##0"
HaveTrueFalseNull= 0
FirstDayOfWeek = 0
FirstWeekOfYear = 0
LCID = 9226
SubFormatType = 2
EndProperty
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty

```

```

ForeColor = &H000000FF&
Height = 375
Left = 4320
TabIndex = 10
Top = 3000
Width = 2655
End
Begin VB.Label Label10
Alignment = 1 'Right Justify
BorderStyle = 1 'Fixed Single
Caption = "1"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
ForeColor = &H000000FF&
Height = 375
Left = 4320
TabIndex = 9
Top = 2040
Width = 2655
End
Begin VB.Label Label9
Alignment = 1 'Right Justify
BorderStyle = 1 'Fixed Single
Caption = "1"
BeginProperty DataFormat
Type = 1
Format = "" "$" " #.##0"
HaveTrueFalseNull= 0
FirstDayOfWeek = 0
FirstWeekOfYear = 0
LCID = 9226
SubFormatType = 2
EndProperty
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty

```

```

ForeColor = &H000000FF&
Height = 375
Left = 4320
Form7 - 3
TabIndex = 8
Top = 1560
Width = 2655
End
Begin VB.Label Label8
Alignment = 1 'Right Justify
BorderStyle = 1 'Fixed Single
Caption = "1"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
ForeColor = &H000000FF&
Height = 375
Left = 4320
TabIndex = 7
Top = 600
Width = 2655
End
Begin VB.Label Label7
Caption = "Total Valor Presupuesto del Muro:"
BeginProperty Font
Name = "MS Sans Serif"
Size = 9.75
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 600
TabIndex = 6
Top = 3480
Width = 3615
End
Begin VB.Label Label6
Caption = "Valor total del concreto ($):"
BeginProperty Font
Name = "MS Sans Serif"

```

```
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 600
TabIndex = 5
Top = 3000
Width = 3615
End
Begin VB.Label Label5
Caption = "Valor kg de acero ($/kg):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 600
TabIndex = 4
Top = 2520
Width = 3615
End
Begin VB.Label Label4
Caption = "Total peso acero (kg):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 600
TabIndex = 3
Top = 2040
Width = 3615
End
Begin VB.Label Label3
Caption = "Valor total del concreto ($):"
```



```

BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 600
TabIndex = 2
Top = 1560
Width = 3615
End
Begin VB.Label Label2
Form7 - 4
Caption = "Valor m3 de concreto ($/m3):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 600
TabIndex = 1
Top = 1080
Width = 3615
End
Begin VB.Label Label1
Caption = "Total volumen concreto (m3):"
BeginProperty Font
Name = "MS Sans Serif"
Size = 8.25
Charset = 0
Weight = 700
Underline = 0 'False
Italic = 0 'False
Strikethrough = 0 'False
EndProperty
Height = 255
Left = 600
TabIndex = 0
Top = 600
Width = 3615

```

```

End
End
Form8 - 1
Private Sub Timer1_Timer()
Load MDIForm1
MDIForm1.Visible = True
Unload Me
End Sub
Form8 - 1
VERSION 5.00
Begin VB.Form Form8
BorderStyle = 0 'None
Caption = "Form8"
ClientHeight = 6705
ClientLeft = 0
ClientTop = 0
ClientWidth = 5625
LinkTopic = "Form8"
ScaleHeight = 6705
ScaleWidth = 5625
ShowInTaskbar = 0 'False
StartupPosition = 2 'CenterScreen
Begin VB.PictureBox Picture1
AutoSize = -1 'True
BorderStyle = 0 'None
Height = 6675
Left = 0
Picture = (Mapa de bits)
ScaleHeight = 6675
ScaleWidth = 5535
TabIndex = 0
Top = 0
Width = 5535
Begin VB.Timer Timer1
Interval = 3000
Left = 4680
Top = 2640
End
Begin VB.Shape Shape1
BackColor = &H80000006&
Height = 6495
Left = 0
Top = 0
Width = 5535
End
End
End
MDIForm1 - 1
Private Sub MDIForm_Load()

```

```

aplicacion = App.PreviousInstance ' Evita que la aplicacion se abra dos veces
If aplicacion = True Then
a$ = App.Title 'Apuntar el título en una variable.
App.Title = "Alerta!!!!" 'Cambiarlo para no reactivarlo.
MsgBox ("La aplicación ya está activa. Pulse OK para continuar ")
AppActivate (a$)
SendKeys "% R", True
End
End If
Form1.Show
End Sub
Private Sub Abrir_Click()
Dim Archivo As String, ArchivoNo As Integer, Btemp As String, atemp As String, bztemp
As String, ctemp As String, dztemp As String, ftemp As
String, gtemp As String, hrtemp As String, ectemp As String, Sntemp As String
IOVentana.ShowOpen
Archivo = IOVentana.FileName
ArchivoNo = FreeFile
Open Archivo For Input As #ArchivoNo
Line Input #ArchivoNo, Aa
Line Input #ArchivoNo, H
Line Input #ArchivoNo, L
Line Input #ArchivoNo, gamaS
Line Input #ArchivoNo, gamaSat
Line Input #ArchivoNo, NAF
Line Input #ArchivoNo, gamaC
Line Input #ArchivoNo, Fc
Line Input #ArchivoNo, Fy
Line Input #ArchivoNo, d
Line Input #ArchivoNo, Qa
Line Input #ArchivoNo, fi
Line Input #ArchivoNo, miu
Line Input #ArchivoNo, Fsv
Line Input #ArchivoNo, Fsd
Line Input #ArchivoNo, Btemp
Line Input #ArchivoNo, atemp
Line Input #ArchivoNo, bztemp
Line Input #ArchivoNo, ctemp
Line Input #ArchivoNo, dztemp
Line Input #ArchivoNo, ftemp
Line Input #ArchivoNo, gtemp
Line Input #ArchivoNo, hrtemp
Line Input #ArchivoNo, ectemp
Line Input #ArchivoNo, Sntemp
Line Input #ArchivoNo, dVarilla(1)
Line Input #ArchivoNo, dVarilla(2)
Line Input #ArchivoNo, dVarilla(3)
Line Input #ArchivoNo, dVarilla(4)
Line Input #ArchivoNo, dVarilla(5)

```

```

Line Input #ArchivoNo, dVarilla(6)
Line Input #ArchivoNo, dVarilla(7)
Line Input #ArchivoNo, dVarilla(8)
Line Input #ArchivoNo, dVarillaPunT2L
Line Input #ArchivoNo, dVarillaPun
Line Input #ArchivoNo, dVarillaTal
Line Input #ArchivoNo, dVarillaTTa1
Line Input #ArchivoNo, dVarillaPunT2T
Line Input #ArchivoNo, dVarillaPunT
Line Input #ArchivoNo, dVarillaCon(1)
Line Input #ArchivoNo, dVarillaCon(2)
Line Input #ArchivoNo, dVarillaCon(3)
Line Input #ArchivoNo, dVarillaConH(1)
Line Input #ArchivoNo, dVarillaConH(2)
Line Input #ArchivoNo, dVarillaConH(3)
Line Input #ArchivoNo, dVarillaConV
Close #ArchivoNo
Form1.Text1.Text = Aa
Form1.Text2.Text = H
Form1.Text3.Text = L
Form1.Text4.Text = 0
Form1.Text5.Text = gamaS
Form1.Text6.Text = gamaSat
Form1.Text7.Text = gamaC
Form1.Text8.Text = Fc
Form1.Text9.Text = Fy
Form1.Text10.Text = d
Form1.Text11.Text = Qa
Form1.Text12.Text = fi
Form1.Text13.Text = miu
Form1.Text14.Text = Fsv
Form1.Text15.Text = Fsd
Form1.Text16.Text = NAF
Form1.Command1_Click ' denomine previamente el boton publico
Form2.Text1.Text = Btemp
Form2.Text2.Text = atemp
Form2.Text3.Text = bztemp
Form2.Text4.Text = ctemp
Form2.Text5.Text = dztemp
Form2.Text6.Text = ftemp
Form2.Text7.Text = gtemp
Form2.Text8.Text = hrtemp
Form2.Text9.Text = ectemp
Form2.Text10.Text = Sntemp
Form2.Command1_Click ' denomine previamente el boton publico
Form3.Command1_Click ' denomine previamente el boton publico
Form4.Combo1.ListIndex = NumCombo(Val(dVarilla(1)))
Form4.Combo2.ListIndex = NumCombo(Val(dVarilla(2)))
Form4.Combo3.ListIndex = NumCombo(Val(dVarilla(3)))

```

```

Form4.Combo4.ListIndex = NumCombo(Val(dVarilla(4)))
Form4.Combo5.ListIndex = NumCombo(Val(dVarilla(5)))
Form4.Combo6.ListIndex = NumCombo(Val(dVarilla(6)))
Form4.Combo7.ListIndex = NumCombo(Val(dVarilla(7)))
Form4.Combo8.ListIndex = NumCombo(Val(dVarilla(8)))
Form4.Command1_Click ' denomine previamente el boton publico
Form5.Combo1.ListIndex = NumCombo(Val(dVarillaPunT2L))
Form5.Combo2.ListIndex = NumCombo(Val(dVarillaPun))
Form5.Combo3.ListIndex = NumCombo(Val(dVarillaTal))
Form5.Combo4.ListIndex = NumCombo(Val(dVarillaTTal1))
MDIForm1 - 2
Form5.Combo5.ListIndex = NumCombo(Val(dVarillaPunT2T))
Form5.Combo6.ListIndex = NumCombo(Val(dVarillaPunT))
Form5.Command1_Click ' denomine previamente el boton publico
Form6.Combo1.ListIndex = NumCombo(Val(dVarillaCon(1)))
Form6.Combo2.ListIndex = NumCombo(Val(dVarillaCon(2)))
Form6.Combo3.ListIndex = NumCombo(Val(dVarillaCon(3)))
Form6.Combo4.ListIndex = NumCombo(Val(dVarillaConH(1)))
Form6.Combo5.ListIndex = NumCombo(Val(dVarillaConH(2)))
Form6.Combo6.ListIndex = NumCombo(Val(dVarillaConH(3)))
Form6.Combo7.ListIndex = NumCombo(Val(dVarillaConV))
Form6.Command1_Click ' denomine previamente el boton publico
Mensaje "Archivo cargado con exito"
End Sub
Private Sub guardar_Click()
Dim Archivo As String, ArchivoNo As Integer
IOVentana.ShowSave
Archivo = IOVentana.FileName
ArchivoNo = FreeFile
Open Archivo For Output As #ArchivoNo
Print #ArchivoNo, Aa
Print #ArchivoNo, H
Print #ArchivoNo, L
Print #ArchivoNo, gamaS
Print #ArchivoNo, gamaSat
Print #ArchivoNo, NAF
Print #ArchivoNo, gamaC
Print #ArchivoNo, Fc
Print #ArchivoNo, Fy
Print #ArchivoNo, d
Print #ArchivoNo, Qa
Print #ArchivoNo, fi
Print #ArchivoNo, miu
Print #ArchivoNo, Fsv
Print #ArchivoNo, Fsd
Print #ArchivoNo, B
Print #ArchivoNo, a
Print #ArchivoNo, bz
Print #ArchivoNo, c

```

```

Print #ArchivoNo, dz
Print #ArchivoNo, f
Print #ArchivoNo, g
Print #ArchivoNo, hr
Print #ArchivoNo, ec
Print #ArchivoNo, Sn
Print #ArchivoNo, dVarilla(1)
Print #ArchivoNo, dVarilla(2)
Print #ArchivoNo, dVarilla(3)
Print #ArchivoNo, dVarilla(4)
Print #ArchivoNo, dVarilla(5)
Print #ArchivoNo, dVarilla(6)
Print #ArchivoNo, dVarilla(7)
Print #ArchivoNo, dVarilla(8)
Print #ArchivoNo, dVarillaPunT2L
Print #ArchivoNo, dVarillaPun
Print #ArchivoNo, dVarillaTal
Print #ArchivoNo, dVarillaTTal1
Print #ArchivoNo, dVarillaPunT2T
Print #ArchivoNo, dVarillaPunT
Print #ArchivoNo, dVarillaCon(1)
Print #ArchivoNo, dVarillaCon(2)
Print #ArchivoNo, dVarillaCon(3)
Print #ArchivoNo, dVarillaConH(1)
Print #ArchivoNo, dVarillaConH(2)
Print #ArchivoNo, dVarillaConH(3)
Print #ArchivoNo, dVarillaConV
Close #ArchivoNo
Mensaje "Se ha guardado el archivo en la ruta " + Archivo
End Sub
Private Sub Ingreso_Click()
Form1.Visible = True
Form1.WindowState = 2
Form2.Visible = False
Form3.Visible = False
Form4.Visible = False
Form5.Visible = False
Form6.Visible = False
Form7.Visible = False
End Sub
Private Sub Prediseño_Click()
Form1.Visible = False
Form2.Visible = True
Form2.WindowState = 2
Form3.Visible = False
Form4.Visible = False
Form5.Visible = False
Form6.Visible = False
Form7.Visible = False

```

```

End Sub
Private Sub ChequeoM_Click()
Form1.Visible = False
Form2.Visible = False
Form3.Visible = True
Form3.WindowState = 2
Form4.Visible = False
Form5.Visible = False
Form6.Visible = False
Form7.Visible = False
End Sub
Private Sub DiseñoMuro_Click()
Form1.Visible = False
Form2.Visible = False
Form3.Visible = False
Form4.Visible = True
Form4.WindowState = 2
MDIForm1 - 3
Form5.Visible = False
Form6.Visible = False
Form7.Visible = False
End Sub
Private Sub DiseñoZarpa_Click()
Form1.Visible = False
Form2.Visible = False
Form3.Visible = False
Form4.Visible = False
Form5.Visible = True
Form5.WindowState = 2
Form6.Visible = False
Form7.Visible = False
End Sub
Private Sub DiseñoContrafuerte_Click()
Form1.Visible = False
Form2.Visible = False
Form3.Visible = False
Form4.Visible = False
Form5.Visible = False
Form6.Visible = True
Form6.WindowState = 2
Form7.Visible = False
End Sub
Private Sub Presupuesto_Click()
Form1.Visible = False
Form2.Visible = False
Form3.Visible = False
Form4.Visible = False
Form5.Visible = False
Form6.Visible = False

```

```

Form7.Visible = True
Form7.WindowState = 2
End Sub
Private Sub DiseñarNuevo_Click()
MDIForm1.Abrir.Enabled = True
MDIForm1.Ingreso.Enabled = False
MDIForm1.Prediseño.Enabled = False
MDIForm1.ChequeoM.Enabled = False
MDIForm1.DiseñoMuro.Enabled = False
MDIForm1.DiseñoZarpa.Enabled = False
MDIForm1.DiseñoContrafuerte.Enabled = False
MDIForm1.Presupuesto.Enabled = False
MDIForm1.Guardar.Enabled = False
MDIForm1.ImprimirTodo.Enabled = False
MDIForm1.DiseñarNuevo.Enabled = False
Form1.Enabled = True
Form1.Command2.Visible = False
Form2.Command2.Visible = False
Form3.Command2.Visible = False
Form4.Command5.Visible = False
Form5.Command5.Visible = False
Form6.Command5.Visible = False
Form7.Command5.Visible = False
Form1.Text1.Enabled = True
Form1.Text2.Enabled = True
Form1.Text3.Enabled = True
Form1.Text5.Enabled = True
Form1.Text6.Enabled = True
Form1.Text7.Enabled = True
Form1.Text8.Enabled = True
Form1.Text9.Enabled = True
Form1.Text10.Enabled = True
Form1.Text11.Enabled = True
Form1.Text12.Enabled = True
Form1.Text13.Enabled = True
Form1.Text14.Enabled = True
Form1.Text15.Enabled = True
Form1.Text16.Enabled = True
Form1.Command1.Enabled = True
Unload Form2
Unload Form3
Unload Form4
Unload Form5
Unload Form6
Unload Form7
Form1.Visible = True
End Sub
Private Sub ImprimirTodo_Click()
Dialogo.ShowPrinter

```



```

Printer.Orientation = vbPRORLandscape
Form1.Visible = True
Form1.Refresh
Printer.PaintPicture CaptureClient(Form1), 500, 500, Printer.ScaleWidth,
(Form1.ScaleHeight * Printer.ScaleWidth) / Form1.ScaleWidth, , , Fo
rm1.ScaleWidth, Form1.ScaleHeight
Printer.NewPage
Form2.Visible = True
Form2.Refresh
Printer.PaintPicture CaptureClient(Form2), 500, 500, Printer.ScaleWidth,
(Form2.ScaleHeight * Printer.ScaleWidth) / Form2.ScaleWidth, , , Fo
rm2.ScaleWidth, Form2.ScaleHeight
Printer.NewPage
Form3.Visible = True
Form3.Refresh
Printer.PaintPicture CaptureClient(Form3), 500, 500, Printer.ScaleWidth,
(Form3.ScaleHeight * Printer.ScaleWidth) / Form3.ScaleWidth, , , Fo
rm3.ScaleWidth, Form3.ScaleHeight
Printer.NewPage
Form4.Visible = True
Form4.Refresh
Printer.PaintPicture CaptureClient(Form4), 500, 500, Printer.ScaleWidth,
(Form4.ScaleHeight * Printer.ScaleWidth) / Form4.ScaleWidth, , , Fo
rm4.ScaleWidth, Form4.ScaleHeight
Printer.NewPage
Form5.Visible = True
Form5.Refresh
MDIForm1 - 4
Printer.PaintPicture CaptureClient(Form5), 500, 500, Printer.ScaleWidth,
(Form5.ScaleHeight * Printer.ScaleWidth) / Form5.ScaleWidth, , , Fo
rm5.ScaleWidth, Form5.ScaleHeight
Printer.NewPage
Form6.Visible = True
Form6.Refresh
Printer.PaintPicture CaptureClient(Form6), 500, 500, Printer.ScaleWidth,
(Form6.ScaleHeight * Printer.ScaleWidth) / Form6.ScaleWidth, , , Fo
rm6.ScaleWidth, Form6.ScaleHeight
Printer.NewPage
Form7.Visible = True
Form7.Visible = False
Form7.Visible = True
Form7.Refresh
Printer.PaintPicture CaptureClient(Form7), 500, 500, Printer.ScaleWidth,
(Form7.ScaleHeight * Printer.ScaleWidth) / Form7.ScaleWidth, , , Fo
rm7.ScaleWidth, Form7.ScaleHeight
Printer.EndDoc
Mensaje "La impresión fue enviada a la impresora " + Printer.DeviceName
End Sub
MDIForm1 - 1

```

```

VERSION 5.00
Object = "{6B7E6392-850A-101B-AFC0-4210102A8DA7}#1.3#0"; "comctl32.ocx"
Object = "{F9043C88-F6F2-101A-A3C9-08002B2F49FB}#1.2#0"; "COMDLG32.OCX"
Begin VB.MDIForm MDIForm1
BackColor = &H8000000C&
Caption = "Diseños de Muros de Contencion con Contrafuertes en el Trados"
ClientHeight = 8490
ClientLeft = 7065
ClientTop = 4125
ClientWidth = 12390
Icon = (Icono)
LinkTopic = "MDIForm1"
StartupPosition = 2 'CenterScreen
WindowState = 2 'Maximized
Begin ComctlLib.StatusBar StatusBar1
Align = 2 'Align Bottom
Height = 255
Left = 0
TabIndex = 0
Top = 8235
Width = 12390
_ExtentX = 21855
_ExtentY = 450
Style = 1
SimpleText = "Desarrollado por ..."
_Version = 327682
BeginProperty Panels {0713E89E-850A-101B-AFC0-4210102A8DA7}
NumPanels = 1
BeginProperty Panel1 {0713E89F-850A-101B-AFC0-4210102A8DA7}
Key = ""
Object.Tag = ""
EndProperty
EndProperty
End
Begin MSComDlg.CommonDialog Dialogo
Left = 480
Top = 960
_ExtentX = 847
_ExtentY = 847
_Version = 393216
End
Begin MSComDlg.CommonDialog IOVentana
Left = 1320
Top = 960
_ExtentX = 847
_ExtentY = 847
_Version = 393216
DefaultExt = ".mcc"
DialogTitle = "Muros con Contrafuertes"

```

```

FileName = "ArchivoMuro.mcc"
Filter = "Archivos MCC (*.mcc)|*.mcc"
Flags = 2
End
Begin VB.Menu Inicio
Caption = "&Inicio"
Begin VB.Menu Abrir
Caption = "&Abrir"
End
Begin VB.Menu Guardar
Caption = "&Guardar"
Enabled = 0 'False
End
Begin VB.Menu DiseñarNuevo
Caption = "Diseñar de &Nuevo"
Enabled = 0 'False
End
Begin VB.Menu ImprimirTodo
Caption = "&Imprimir Todo"
Enabled = 0 'False
End
End
Begin VB.Menu Ingreso
Caption = "Ingreso de &Datos"
Enabled = 0 'False
End
Begin VB.Menu Prediseño
Caption = "&Prediseño"
Enabled = 0 'False
End
Begin VB.Menu ChequeoM
Caption = "&Chequeo"
Enabled = 0 'False
End
Begin VB.Menu DiseñoMuro
Caption = "Diseño &Muro"
Enabled = 0 'False
End
Begin VB.Menu DiseñoZarpa
Caption = "Diseño &Zarpa"
Enabled = 0 'False
End
Begin VB.Menu DiseñoContrafuerte
Caption = "Diseño &Contrafuerte"
Enabled = 0 'False
End
Begin VB.Menu Presupuesto
Caption = "P&resupuesto"
Enabled = 0 'False

```

```
End
End
Module1 - 1
' Declaraciones publicas
Public Aa As String
Public H As String
Public L As String
Public W As String
Public gamaS As String
Public gamaSat As String
Public gamaC As String
Public Fc As String
Public Fy As String
Public d As String
Public Qa As String
Public fi As String
Public miu As String
Public Fsv As String
Public Fsd As String
Public NAF As String
Public gamaProm As String
Public B As String
Public a As String
Public bz As String
Public c As String
Public dz As String
Public f As String
Public g As String
Public hr As String
Public ec As String
Public S As String
Public Sn As String
Public temp As String
Public temp2 As String
Public Ev As String
Public TotEv(1 To 6) As String
Public MeTot As String
Public Mev(1 To 6) As String
Public Kah As String
Public Eah As String
Public Khs As String
Public delta As String
Public iAng As String
Public teta As String
Public beta As String
Public Kvs As String
Public Kad As String
Public Ead As String
Public Eahc As String
```

Public Eadc As String
Public Mv As String
Public FsdC As String
Public Fsvc As String
Public Y As String
Public exc As String
Public ex As String
Public Qmax As String
Public Qmin As String
Public i As Integer
Public difAng As String
Public Yd As String
Public Mvd As String
Public Fsds As String
Public Fsvs As String
Public exd As String
Public Qmaxd As String
Public Qmind As String
Public Chequeo As Integer
Public E(1 To 3) As String
Public Wf(1 To 3) As String
Public M1(1 To 3) As String
Public M2(1 To 3) As String
Public M3(1 To 3) As String
Public M4(1 To 3) As String
Public M5(1 To 3) As String
Public V1(1 To 3) As String
Public V2(1 To 3) As String
Public Ru(1 To 3) As String
Public dmin(1 To 3) As String
Public Vcor(1 To 3) As String
Public Asr(1 To 3) As String
Public Asmin(1 To 3) As String
Public defec(1 To 3) As String
Public Vadm As String
Public Ro(1 To 3) As String
Public esp(1 To 3) As String
Public Chequeo2 As Integer
Public sep(1 To 3) As String
Public varilla(1 To 12) As String
Public Asrc(1 To 3) As String
Public AsminV As String
Public AsminV1 As String
Public AsminV2 As String
Public cVarilla(1 To 8) As String
Public QmaxMayP As String
Public QminMayP As String
Public A1p As String
Public A2p As String

Public VuPun As String
Public VcorPun As String
Public MuPun As String
Public AsPun As String
Public AsminPun As String
Public AsminTPun As String
Public AsminTPun1 As String
Public AsminTPun2 As String
Public QmPun As String
Public RoPun As String
Public defecPun As String
Public AscPun As String
Public Chequeo3 As String
Public cVarillaPunT As String
Public cVarillaPunT2L As String
Module1 - 2
Public cVarillaPunT2T As String
Public cVarillaPun As String
Public QmTal As String
Public WT As String
Public WTal As String
Public VuTal As String
Public PresS As String
Public WTalMed As String
Public WTalMin As String
Public WTalc As String
Public MTalPos As String
Public MTalNeg As String
Public MTal As String
Public AsTal As String
Public AsminTal As String
Public AsTalc As String
Public AsminTTal As String
Public AsminTTal1 As String
Public AsminTTal2 As String
Public RoTal As String
Public cVarillaTal As String
Public cVarillaTTal1 As String
Public cVarillaTTal2 As String
Public Fcon(1 To 3) As String
Public Ycon(1 To 3) As String
Public Mcon(1 To 3) As String
Public Ascon(1 To 3) As String
Public Asconmin(1 To 3) As String
Public Asconc(1 To 3) As String
Public Rocon(1 To 3) As String
Public bcon(1 To 3) As String
Public bPrimcon(1 To 3) As String
Public befeccon(1 To 3) As String

```

Public AsconH(1 To 3) As String
Public R1 As String
Public AsconV As String
Public dVarilla(1 To 8) As String
Public WvarT As String
Public dVarillaPunT As String
Public dVarillaPunT2L As String
Public dVarillaPunT2T As String
Public dVarillaPun As String
Public dVarillaTal As String
Public dVarillaTTal1 As String
Public ValConcreto As String
Public ValAcero As String
Public TValConcreto As String
Public TValAcero As String
Public TotPres As String
Public cVarillaCon(1 To 3) As String
Public dVarillaCon(1 To 3) As String
Public cVarillaConH(1 To 3) As String
Public dVarillaConH(1 To 3) As String
Public cVarillaConV As String
Public dVarillaConV As String
Public nCon As String
Public VolMuro As String
Global Const PI = 3.14159265358979 ' Cargo Pi al entorno
Public Function Mensaje(Cadena As String) As String ' Funcion para enviar los mensajes
MsgBox Cadena, vbOKOnly, "Tiene un mensaje!"
End Function
Public Function reemplazarTexto(textoCompleto As String, textoBuscar As String,
textoReemplazar As String) As String
Dim resultado As String
resultado = Replace(textoCompleto, textoBuscar, textoReemplazar) ' , , vbTextCompare)
reemplazarTexto = resultado
End Function
Public Function Cuantia(F1 As String, F2 As String, Bv As String, Hv As String, D1v As
String, MOM As String) As String
' F1 = f'c (MPa); F2 = Fy (MPa); Bv= Ancho Viga (m); Hv = Alto de la Viga (m); D1v =
Recubrimiento (m); MOM = Momento (kN*m)
Dim dv, A2v, M9v, B1v, P1v, P2v, M1v, M2v, M3v, cv, B9v, A1v, Rov, A9v, Pv As String
dv = Hv - D1v ' d
A2v = 0
M9v = MOM
' calculo beta 1
If Val(F1) <= 28 Then
B1v = 0.85
Else
B1v = 0.85 - 0.05 * (F1 - 28) / 7
End If
'calculo 75% de la cuantia balanceada segun NSR C 8-5

```

```

P2v = 0.75 * 0.85 * B1v * (F1 / F2) * (609 / (609 + F2))
'calculo cuantia minima segun NSR C 10-3
P1v = 1.4 / (F2)
'calculo momentos
M1v = 0.9 * P1v * F2 * 1000 * Bv * dv ^ 2 * (1 - 0.59 * P1v * F2 / F1)
M2v = 0.9 * P2v * F2 * 1000 * Bv * dv ^ 2 * (1 - 0.59 * P2v * F2 / F1)
' si el caso calculo acero de compresion
If Val(M9v) > Val(M2v) Then
M3v = M9v - M2v
A2v = M3v / (0.9 * F2 * 1000 * (dv - D1v)) * 1000 * 1000
A1v = P2v * Bv * 1000 * dv * 1000
Pv = P2v
A1v = A1v + A2v
A2v = A2v / 0.75
Else
' calculo acero a tension
cv = -M9v
B9v = 0.9 * F2 * 1000 * Bv * dv ^ 2
A9v = -B9v * 0.59 * F2 / F1
Pv = (-B9v + Sqr(B9v ^ 2 - 4 * A9v * cv)) / (2 * A9v)
End If
If Pv > 0 Then
'area acero a tension
A1v = Pv * Bv * 1000 * dv * 1000
End If
Cuantia = Pv
Module1 - 3
End Function
Public Function separacion(AreaAcero As String, Numvar As Integer) As String
Dim varilla(1 To 12) As String
varilla(1) = 32
varilla(2) = 71
varilla(3) = 129
varilla(4) = 199
varilla(5) = 284
varilla(6) = 387
varilla(7) = 510
varilla(8) = 645
varilla(9) = 819
varilla(10) = 1006
varilla(11) = 1452
varilla(12) = 2581
Select Case Numvar
'Case 14
' separacion = 1 / (AreaAcero / varilla(Numvar - 3))
'Case 18
' separacion = 1 / (AreaAcero / varilla(Numvar - 6))
Case Else
separacion = 1 / (AreaAcero / varilla(Numvar + 1))

```



```

End Select
End Function
Public Function VarNum(Numvar As Integer) As String
Select Case Numvar
Case 10
VarNum = Numvar + 4
Case 11
VarNum = Numvar + 7
Case Else
VarNum = Numvar + 2
End Select
End Function
Public Function NumCombo(Numvar As Integer) As String
Select Case Numvar
Case 14
NumCombo = Numvar - 4
Case 18
NumCombo = Numvar - 7
Case Else
NumCombo = Numvar - 2
End Select
End Function
Public Function PesoVar(Numvar As Integer) As String
Dim varilla(1 To 12) As String
varilla(1) = 0.25
varilla(2) = 0.56
varilla(3) = 0.994
varilla(4) = 1.552
varilla(5) = 2.235
varilla(6) = 3.042
varilla(7) = 3.973
varilla(8) = 5.06
varilla(9) = 6.404
varilla(10) = 7.907
varilla(11) = 11.38
varilla(12) = 20.24
Select Case Numvar
Case 2
PesoVar = varilla(1)
Case 3
PesoVar = varilla(2)
Case 4
PesoVar = varilla(3)
Case 5
PesoVar = varilla(4)
Case 6
PesoVar = varilla(5)
Case 7
PesoVar = varilla(6)

```

```

Case 8
PesoVar = varilla(7)
Case 9
PesoVar = varilla(8)
Case 10
PesoVar = varilla(9)
Case 11
PesoVar = varilla(10)
Case 14
PesoVar = varilla(11)
Case 18
PesoVar = varilla(12)
End Select
End Function
Public Function GanchoVar(Numvar As Integer) As String
Dim varilla(1 To 12) As String
varilla(1) = 0.1
varilla(2) = 0.15
varilla(3) = 0.2
varilla(4) = 0.25
varilla(5) = 0.3
varilla(6) = 0.35
varilla(7) = 0.4
varilla(8) = 0.45
varilla(9) = 0.5
varilla(10) = 0.55
varilla(11) = 0.7
varilla(12) = 0.85
Select Case Numvar
Case 2
GanchoVar = varilla(1)
Case 3
GanchoVar = varilla(2)
Case 4
Module1 - 4
GanchoVar = varilla(3)
Case 5
GanchoVar = varilla(4)
Case 6
GanchoVar = varilla(5)
Case 7
GanchoVar = varilla(6)
Case 8
GanchoVar = varilla(7)
Case 9
GanchoVar = varilla(8)
Case 10
GanchoVar = varilla(9)
Case 11

```

```

GanchoVar = varilla(10)
Case 14
GanchoVar = varilla(11)
Case 18
GanchoVar = varilla(12)
End Select
End Function
Module2 - 1
Option Explicit
Private Type PALETTEENTRY
peRed As Byte
peGreen As Byte
peBlue As Byte
peFlags As Byte
End Type
Private Type LOGPALETTE
palVersion As Integer
palNumEntries As Integer
palPalEntry(255) As PALETTEENTRY
End Type
Private Type GUID
Data1 As Long
Data2 As Integer
Data3 As Integer
Data4(7) As Byte
End Type
Private Type PicBmp
Size As Long
Type As Long
hBmp As Long
hPal As Long
Reserved As Long
End Type
Private Const RASTERCAPS As Long = 38
Private Const RC_PALETTE As Long = &H100
Private Const SIZEPALETTE As Long = 104
Private Declare Function CreateCompatibleDC Lib "GDI32" (ByVal hDC As Long) As Long
Private Declare Function CreateCompatibleBitmap Lib "GDI32" (ByVal hDC As Long,
ByVal nWidth As Long, ByVal nHeight As Long) As Long
Private Declare Function SelectObject Lib "GDI32" (ByVal hDC As Long, ByVal hObject As
Long) As Long
Private Declare Function BitBlt Lib "GDI32" (ByVal hDCDest As Long, ByVal XDest As
Long, ByVal YDest As Long, ByVal nWidth As Long, ByVal nH
eight As Long, ByVal hDCSrc As Long, ByVal XSrc As Long, ByVal YSrc As Long, ByVal
dwRop As Long) As Long
Private Declare Function GetWindowDC Lib "USER32" (ByVal hWnd As Long) As Long
Private Declare Function GetDC Lib "USER32" (ByVal hWnd As Long) As Long
Private Declare Function GetDeviceCaps Lib "GDI32" (ByVal hDC As Long, ByVal
iCapabilitiy As Long) As Long

```

```

Private Declare Function SelectPalette Lib "GDI32" (ByVal hDC As Long, ByVal hPalette
As Long, ByVal bForceBackground As Long) As Long
Private Declare Function RealizePalette Lib "GDI32" (ByVal hDC As Long) As Long
Private Declare Function GetSystemPaletteEntries Lib "GDI32" (ByVal hDC As Long,
ByVal wStartIndex As Long, ByVal wNumEntries As Long, lpPal
etteEntries As PALETTEENTRY) As Long
Private Declare Function CreatePalette Lib "GDI32" (lpLogPalette As LOGPALETTE) As
Long
Private Declare Function ReleaseDC Lib "USER32" (ByVal hWnd As Long, ByVal hDC As
Long) As Long
Private Declare Function DeleteDC Lib "GDI32" (ByVal hDC As Long) As Long
Private Declare Function OleCreatePictureIndirect Lib "olepro32.dll" (PicDesc As PicBmp,
ReflID As GUID, ByVal fPictureOwnsHandle As Long, I
Pic As IPicture) As Long
Public Function CaptureClient(frmSrc As Form) As Picture
Set CaptureClient = CaptureWindow(frmSrc.hWnd, True, 0, 0,
frmSrc.ScaleX(frmSrc.ScaleWidth, frmSrc.ScaleMode, vbPixels), frmSrc.ScaleY(frmSrc
c.ScaleHeight, frmSrc.ScaleMode, vbPixels))
End Function
Public Function CaptureWindow(ByVal hWndSrc As Long, ByVal Client As Boolean, ByVal
LeftSrc As Long, ByVal TopSrc As Long, ByVal WidthSrc As
Long, ByVal HeightSrc As Long) As Picture
Dim hDCMemory As Long
Dim hBmp As Long
Dim hBmpPrev As Long
Dim r As Long
Dim hDCSrc As Long
Dim hPal As Long
Dim hPalPrev As Long
Dim RasterCapsScrn As Long
Dim HasPaletteScrn As Long
Dim PaletteSizeScrn As Long
Dim LogPal As LOGPALETTE
If Client Then
hDCSrc = GetDC(hWndSrc)
Else
hDCSrc = GetWindowDC(hWndSrc)
End If
hDCMemory = CreateCompatibleDC(hDCSrc)
hBmp = CreateCompatibleBitmap(hDCSrc, WidthSrc, HeightSrc)
hBmpPrev = SelectObject(hDCMemory, hBmp)
RasterCapsScrn = GetDeviceCaps(hDCSrc, RASTERCAPS)
HasPaletteScrn = RasterCapsScrn And RC_PALETTE
PaletteSizeScrn = GetDeviceCaps(hDCSrc, SIZEPALETTE)
If HasPaletteScrn And (PaletteSizeScrn = 256) Then
LogPal.palVersion = &H300
LogPal.palNumEntries = 256
r = GetSystemPaletteEntries(hDCSrc, 0, 256, LogPal.palPalEntry(0))
hPal = CreatePalette(LogPal)

```

```

hPalPrev = SelectPalette(hDCMemory, hPal, 0)
r = RealizePalette(hDCMemory)
End If
r = BitBlt(hDCMemory, 0, 0, WidthSrc, HeightSrc, hDCSrc, LeftSrc, TopSrc, vbSrcCopy)
hBmp = SelectObject(hDCMemory, hBmpPrev)
If HasPaletteScrn And (PaletteSizeScrn = 256) Then
hPal = SelectPalette(hDCMemory, hPalPrev, 0)
End If
r = DeleteDC(hDCMemory)
r = ReleaseDC(hWndSrc, hDCSrc)
Set CaptureWindow = CreateBitmapPicture(hBmp, hPal)
End Function
Public Function CreateBitmapPicture(ByVal hBmp As Long, ByVal hPal As Long) As
Picture
Dim r As Long
Dim Pic As PicBmp
Dim IPic As IPicture
Dim IID_IDispatch As GUID
With IID_IDispatch
.Data1 = &H20400
.Data4(0) = &HC0
.Data4(7) = &H46
End With
With Pic
.Size = Len(Pic)
.Type = vbPicTypeBitmap
.hBmp = hBmp
.hPal = hPal
End With
r = OleCreatePictureIndirect(Pic, IID_IDispatch, 1, IPic)
Set CreateBitmapPicture = IPic
End Function
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```