

Appendix-9

Road Slope Management System (RSMS)

Manual Volume 5

List of Visual Basic Files

Ver1.0 June 2007

The Department of Public Works and Highways

Filename	Description
frmAbout.frm	Form for About RSMS
frmAbout.frx	Visual Basic Form Binary File
frmAdd_New.frm	Form for adding new inventory survey
frmAdd_New.frx	Visual Basic Form Binary File
frmAddDel_User.frm	Form for adding/deleting user accounts
frmAddDel_User.frx	Visual Basic Form Binary File
frmAdmin_Op.frm	Form for Administrative Option menu
frmAdmin_Op.frx	Visual Basic Form Binary File
frmChange_Pas.frm	Form for Changing Password
frmChange_Pas.frx	Visual Basic Form Binary File
frmChangeForm.frm	Form for Changing Formula
frmChangeForm.frx	Visual Basic Form Binary File
frmData_Brow.frm	Form for Data Browser
frmData_Brow.frx	Visual Basic Form Binary File
frmData_Man.frm	Form for Data Manipulation
frmData_Man.frx	Visual Basic Form Binary File
frmDelete_Data.frm	Form for Delete Data
frmDelete_Data.frx	Visual Basic Form Binary File
frmForgotPass.frm	Form for Forgot Password
frmForgotPass.frx	Visual Basic Form Binary File
frmGrantRevoke.frm	Form for Grant/Revoke Privilege
frmGrantRevoke.frx	Visual Basic Form Binary File
frmImport_Data.frm	Form for Import Data
frmImport_Data.frx	Visual Basic Form Binary File
frmMain_Menu.frm	Form for Main Menu
frmMain_Menu.frx	Visual Basic Form Binary File
frmModify_Data.frm	Form for Modify Data
frmModify_Data.frx	Visual Basic Form Binary File
frmQuery.frm	Form for Select Query
frmQuery.frx	Visual Basic Form Binary File
frmRemove_UnRe.frm	Form for Remove/Un-remove Data
frmRemove_UnRe.frx	Visual Basic Form Binary File
frmReset_Pas.frm	Form for Reset Password
frmReset_Pas.frx	Visual Basic Form Binary File
frmShut_Start.frm	Form for Shutdown/Start Server
frmShut_Start.frx	Visual Basic Form Binary File
frmSplash.frm	Form for Splash screen
frmSplash.frx	Visual Basic Form Binary File
frmUser_Login.frm	Form for User Login
frmUser_Login.frx	Visual Basic Form Binary File
modRSMS.bas	Modules for RSMS
Module1.bas	Modules for RSMS
RSMS.vbp	RSMS Visual Basic Project
RSMS.vbw	RSMS Visual Basic Project Workspace

Appendix-10

Road Slope Management System (RSMS)

Manual Volume 6

List of Database Tables and Columns

Ver1.0 June 1 2007

The Department of Public Works and Highways

1) Tb_Constant

	Column Name	Data Type	Length	Allow Null
	Coeff_Vol_Max	nvarchar	50	Y
	Coeff_Vol_NoInput	nvarchar	50	Y
	Coeff_Vol_Ave	nvarchar	50	Y
	Ave_Human_Death	nvarchar	50	Y
	Unit_Value_Human	nvarchar	50	Y
	CM1_Min	nvarchar	50	Y
	CM1_Ave	nvarchar	50	Y
	CM1_Max	nvarchar	50	Y
	CM2_Min	nvarchar	50	Y
	CM2_Ave	nvarchar	50	Y
	CM2_Max	nvarchar	50	Y
	CM3_Min	nvarchar	50	Y
	CM3_Ave	nvarchar	50	Y
	CM3_Max	nvarchar	50	Y

2) Tb_Disas_Type

	Column Name	Data Type	Length	Allow Null
MainKey	Disaster_Code	nchar	2	N
	Disaster Name	char	30	N

3) Tb_FRCDp_CE

	Column Name	Data Type	Length	Allow Null
	Factor_Categories	nvarchar	100	Y
	Frequency_Score	nvarchar	50	Y
	Factor_Items	nvarchar	100	Y

4) Tb_FRCDp_DF

	Column Name	Data Type	Length	Allow Null
	Factor_Categories	nvarchar	50	Y
	Frequency_Score	nvarchar	50	Y
	Factor_Items	nvarchar	50	Y

5) Tb_FRCDp_LS

	Column Name	Data Type	Length	Allow Null
	Factor_Categories	nvarchar	50	Y
	Frequency_Score	nvarchar	50	Y
	Factor_Items	nvarchar	50	Y

6)Tb_FRCDp_RC

	Column Name	Data Type	Length	Allow Null
	Factor_Categories	nvarchar	50	Y
	Frequency_Score	nvarchar	50	Y
	Factor_Items	nvarchar	50	Y

7)Tb_FRCDp_RE

	Column Name	Data Type	Length	Allow Null
	Factor_Categories	nvarchar	50	Y
	Frequency_Score	nvarchar	50	Y
	Factor_Items	nvarchar	100	Y

8)Tb_FRCDp_RS

	Column Name	Data Type	Length	Allow Null
	Factor_Categories	nvarchar	50	Y
	Frequency_Score	nvarchar	50	Y
	Factor_Items	nvarchar	50	Y

9)Tb_FRCDp_SC

	Column Name	Data Type	Length	Allow Null
	Factor_Categories	nvarchar	50	Y
	Frequency_Score	nvarchar	50	Y
	Factor_Items	nvarchar	50	Y

10)Tb_KmPost

	Column Name	Data Type	Length	Allow Null
	RoadSection_Code	nvarchar	50	N
	Kilometer_Code	nvarchar	50	Y
	Kilometer_Start	nvarchar	50	Y

11)Tb_Office

	Column Name	Data Type	Length	Allow Null
MainKey	Office_Name	nvarchar	50	N
	Region_Name	nvarchar	50	Y

12)Tb_Region

	Column Name	Data Type	Length	Allow Null
MainKey	Region_Name	nvarchar	50	N

13) Tb_Road

	Column Name	Data Type	Length	Allow Null
	Road_Code	nvarchar	50	N
	Road_Name	nvarchar	50	Y
	Office_Name	nvarchar	50	Y
	Classification	nvarchar	50	Y

14) Tb_RoadSection

	Column Name	Data Type	Length	Allow Null
MainKey	RoadSection_Code	nvarchar	50	N
	Section_Length	nvarchar	50	Y
	Road_Code	nvarchar	50	Y

15) Tb_Survey_Pt_Account

	Column Name	Data Type	Length	Allow Null
MainKey	Username	nvarchar	50	N
	Password	ntext	16	Y
	Question	nvarchar	100	Y
	Answer	nvarchar	50	Y
	Privilege	char	10	Y
	Type	nvarchar	50	Y

16) Tb_Survey_Pt_CE

	Column Name	Data Type	Length	Allow Null
MainKey	SurveyPointID	nchar	30	N
	CE_Len_Survey	nvarchar	50	Y
	CE_Dist_from_Coast	nvarchar	50	Y
	CE_Level_High_Water	nvarchar	50	Y
	CE_Material_Coastal_Bank	nvarchar	50	Y
	CE_Material_Coast	nvarchar	50	Y
	CE_Collapse_Revetment	nvarchar	50	Y
	CE_Erosion_Revetment	nvarchar	50	Y
	CE_Erosion_Coastal_Side	nvarchar	50	Y
	CE_Cracks_Crevices	nvarchar	50	Y
	CE_Depression	nvarchar	50	Y
	CE_Exist_Revetment_with_foundation	nvarchar	50	Y
	CE_Exist_Revetment_without_Foundation	nvarchar	50	Y
	CE_Exist_Wave_Absorb_Work	nvarchar	50	Y
	CE_Exist_Other	nvarchar	50	Y
	CE_Name_Countermeasure	nvarchar	50	Y
	CE_Length_RCD	float	8	Y
	CE_DS_Unit_Reopen_Cost	float	8	Y
	CE_DS_Fixed_Reopen	float	8	Y
	Annual_Reopen_Cost	float	8	Y
	CE_DS_Ave_Human_Loss	float	8	Y
	CE_DS_Est_Human_Life	float	8	Y
	Annual_Human_Loss	float	8	Y

17)Tb_Survey_Pt_DF

	Column Name	Data Type	Length	Allow Null
MainKey	SurveyPointID	nchar	30	N
	DF_Width_Channel	nvarchar	50	Y
	DF_Drainage_Area	nvarchar	50	Y
	DF_Height_From_Channel	nvarchar	50	Y
	DF_Vegetation	nvarchar	50	Y
	DF_Material_Sediment	nvarchar	50	Y
	DF_Slope_Failure_Situation	nvarchar	50	Y
	DF_Trace_of_Debris	nvarchar	50	Y
	DF_Exist_Small_Check_Dam	nvarchar	50	Y
	DF_Exist_Sabo_Dam	nvarchar	50	Y
	DF_Exist_Other	nvarchar	50	Y
	DF_Name_Countermeasure	nvarchar	50	Y
	DF_Length_RCD	float	8	Y
	DF_DS_Unit_Reopen_Cost	float	8	Y
	DF_DS_Fixed_Reopen	float	8	Y
	Annual_Reopen_Cost	float	8	Y
	DF_DS_Ave_Human_Loss	float	8	Y
	DF_DS_Est_Human_Life	float	8	Y
	Annual_Human_Loss	float	8	Y

18)Tb_Survey_Pt_LS

	Column Name	Data Type	Length	Allow Null
MainKey	SurveyPointID	nchar	30	N
	LS_Len_Survey	nvarchar	20	Y
	LS_Slope_Gradient	nvarchar	50	Y
	LS_Slope_Shape	nvarchar	50	Y
	LS_Vegetation	nvarchar	50	Y
	LS_Material_Surface	nvarchar	50	Y
	LS_Spring_Surf_Water	nvarchar	50	Y
	LS_Erosion	nvarchar	50	Y
	LS_Piping_Hole	nvarchar	50	Y
	LS_Collapse_Slump	nvarchar	50	Y
	LS_Crack_Crevice	nvarchar	50	Y
	LS_Fallen_Inclined_Tree	nvarchar	50	Y
	LS_Depression_Upheaval	nvarchar	50	Y
	LS_Exist_Slope_Road_Drain	nvarchar	50	Y
	LS_Exist_Dewatering	nvarchar	50	Y
	LS_Exist_Cut_Work	nvarchar	50	Y
	LS_Exist_Embankment	nvarchar	50	Y
	LS_Exist_Catch_Wall	nvarchar	50	Y
	LS_Exist_Other	nvarchar	50	Y
	LS_Name_Countermeasure	nvarchar	50	Y
	LS_Length_RCD	float	8	Y
	LS_DS_Unit_Reopen_Cost	float	8	Y
	LS_DS_Fixed_Reopen	float	8	Y
	Annual_Reopen_Cost	float	8	Y
	LS_DS_Ave_Human_Loss	float	8	Y
	LS_DS_Est_Human_Life	float	8	Y
	Annual_Human_Loss	float	8	Y

19)Tb_Survey_Pt_RC

	Column Name	Data Type	Length	Allow Null
MainKey	SurveyPointID	nchar	30	N
	RF_Len_Survey	nvarchar	50	Y
	RF_Height_Slope	nvarchar	50	Y
	RF_Slope_Gradient	nvarchar	50	Y
	RF_Dist_from_Road	nvarchar	50	Y
	RF_Slope_Shape	nvarchar	50	Y
	RF_Vegetation	nvarchar	50	Y
	RF_Material_Surface	nvarchar	50	Y
	RF_Spring_Surf_Water	nvarchar	50	Y
	RF_Fall	nvarchar	50	Y
	RF_Open_Crack_Overhang	nvarchar	50	Y
	RF_Toppling	nvarchar	50	Y
	RF_Cross_Open_Crack	nvarchar	50	Y
	RF_Slide_Direction_Open_Crack	nvarchar	50	Y
	RF_Exist_Guard_Fence	nvarchar	50	Y
	RF_Exist_Catch_Concrete_Gabion	nvarchar	50	Y
	RF_Exist_Shotcrete	nvarchar	50	Y
	RF_Exist_Rock_Shed	nvarchar	50	Y
	RF_Exist_Other	nvarchar	50	Y
	RF_Name_Countermeasure	nvarchar	50	Y
	RF_DS_Coeff_Volume	nvarchar	30	Y
	RF_DS_Collapse_length	float	8	Y
	RF_DS_Collapse_width	float	8	Y
	RF_DS_Collapse_depth	float	8	Y
	RF_DS_Collapse_volume	float	8	Y
	RF_DS_Ratio_accum_collapse	float	8	Y
	RF_DS_Accum_Volume	float	8	Y
	RF_DS_Unit_Reopen_Cost	float	8	Y
	RF_DS_Fixed_Reopen	float	8	Y
	Annual_Reopen_Cost	float	8	Y
	RF_DS_Ave_Human	float	8	Y
	RF_DS_Est_Human	float	8	Y
	Annual_Human_Loss	float	8	Y

20)Tb_Survey_Pt_RE

	Column Name	Data Type	Length	Allow Null
MainKey	SurveyPointID	nchar	30	N
	RE_Len_Survey	nvarchar	50	Y
	RE_Dist_from_Low_Water	nvarchar	50	Y
	RE_Width_River	nvarchar	50	Y
	RE_Level_High_Water	nvarchar	50	Y
	RE_Material_River_Bank	nvarchar	50	Y
	RE_Material_River_Bead	nvarchar	50	Y
	RE_Crack_Crevice	nvarchar	50	Y
	RE_Depression	nvarchar	50	Y
	RE_Fall_Slump	nvarchar	50	Y
	RE_Exist_Revertment	nvarchar	50	Y
	RE_Exist_Groin_Spur	nvarchar	50	Y
	RE_Exist_Other	nvarchar	50	Y
	RE_Name_Countermeasure	nvarchar	50	Y
	RE_Length_RCD	float	8	Y
	RE_DS_Unit_Reopen_Cost	float	8	Y
	RE_DS_Fixed_Reopen	float	8	Y
	Annual_Reopen_Cost	float	8	Y
	RE_DS_Ave_Human_Loss	float	8	Y
	RE_DS_Est_Human_Life	float	8	Y
	Annual_Human_Loss	float	8	Y

21)Tb_Survey_Pt_RS

	Column Name	Data Type	Length	Allow Null
MainKey	SurveyPointID	nchar	30	N
	RS_Len_Survey	nvarchar	50	Y
	RS_Height_Slope	nvarchar	50	Y
	RS_Slope_Gradient	nvarchar	50	Y
	RS_Distance_Slope	nvarchar	50	Y
	RS_Slope_Shape	nvarchar	50	Y
	RS_Vegetation	nvarchar	50	Y
	RS_Slope_Type	nvarchar	50	Y
	RS_Material_Surface	nvarchar	50	Y
	RS_Spring_Surf_Water	nvarchar	50	Y
	RS_Rain_Water	nvarchar	50	Y
	RS_Erosion	nvarchar	50	Y
	RS_Piping_Hole	nvarchar	50	Y
	RS_Crack_Crevice	nvarchar	50	Y
	RS_Depression	nvarchar	50	Y
	RS_Fall_Slump	nvarchar	50	Y
	RS_Exist_Road_Drain	nvarchar	50	Y
	RS_Exist_Retaining_Wall	nvarchar	50	Y
	RS_Other	nvarchar	50	Y
	RS_Name_Countermeasure	nvarchar	50	Y
	RS_Length_RCD	float	8	Y
	RS_DS_Unit_Reopen_Cost	float	8	Y
	RS_DS_Fixed_Reopen	float	8	Y
	Annual_Reopen_Cost	float	8	Y
	RS_DS_Ave_Human_Loss	float	8	Y
	RS_DS_Est_Human_Life	float	8	Y
	Annual_Human_Loss	float	8	Y

22)Tb_Survey_Pt_SC

	Column Name	Data Type	Length	Allow Null
MainKey	SurveyPointID	nchar	30	N
	SC_Len_Survey	nvarchar	50	Y
	SC_Height_Slope	nvarchar	50	Y
	SC_Slope_Gradient	nvarchar	50	Y
	SC_Dist_from_Road	nvarchar	50	Y
	SC_Slope_Shape	nvarchar	50	Y
	SC_Vegetation	nvarchar	50	Y
	SC_Material_Surface	nvarchar	50	Y
	SC_Area_Ratio_Bedrock	nvarchar	50	Y
	SC_Materials_Bedrock	nvarchar	50	Y
	SC_Spring_Surf_Water	nvarchar	50	Y
	SC_Erosion	nvarchar	50	Y
	SC_Piping_Hole	nvarchar	50	Y
	SC_Collapse_Slump	nvarchar	50	Y
	SC_Crack_Crevice	nvarchar	50	Y
	SC_Fallen_Inclined_Tree	nvarchar	50	Y
	SC_Depression_Bulge	nvarchar	50	Y
	SC_Exist_Guard_Fence	nvarchar	50	Y
	SC_Exist_Catch_Concrete_Gabion	nvarchar	50	Y
	SC_Exist_Slope_Drain	nvarchar	50	Y
	SC_Exist_Shotcrete	nvarchar	50	Y
	SC_Exist_Retaining_Wall	nvarchar	50	Y
	SC_Exist_Vegetation	nvarchar	50	Y
	SC_Exist_Other	nvarchar	50	Y
	SC_Name_Countermeasure	nvarchar	50	Y
	SC_DS_Coeff_Volume	nvarchar	30	Y
	SC_DS_Collapse_length	float	8	Y
	SC_DS_Collapse_width	float	8	Y
	SC_DS_Collapse_depth	float	8	Y
	SC_DS_Collapse_volume	float	8	Y
	SC_DS_Ratio_accum_collapse	float	8	Y
	SC_DS_Accum_Volume	float	8	Y
	SC_DS_Unit_Reopen_Cost	float	8	Y
	SC_DS_Fixed_Reopen	float	8	Y
	Annual_Reopen_Cost	float	8	Y
	SC_DS_Ave_Human	float	8	Y
	SC_DS_Value_Human	float	8	Y
	Annual_Human_Loss	float	8	Y

23)Tb_Survey_Pt

	Column Name	Data Type	Length	Allow Null
MainKey	SurveyPointID	nchar	30	N
	Remove_Flag	char	10	Y
	ExcelFile_Name	nvarchar	300	Y
	Region_Name	nvarchar	50	Y
	Office_in_Charge	nvarchar	50	Y
	Route_Name	nvarchar	50	Y
	RoadID	nvarchar	50	Y
	RoadSectionID	nvarchar	50	Y
	KPost1	nvarchar	50	Y
	Start_m	nvarchar	50	Y
	KPost2	nvarchar	50	Y
	End_m	nvarchar	50	Y
	Survey_length	nvarchar	50	Y
	Side_of_Survey	nvarchar	50	Y
	Disaster_Type	nchar	2	Y
	Prepared_By	nvarchar	50	Y
	Prepared_Date	nvarchar	50	Y
	Checked_By	nvarchar	50	Y
	Checked_Date	nvarchar	50	Y
	No_RCD	nvarchar	50	Y
	Period_Disaster_DB	nvarchar	53	Y
	FRCD_a	nvarchar	53	Y
	No_RCD_bc	nvarchar	53	Y
	Period_Disaster_Db_bc	nvarchar	53	Y
	FRCD_a_bc	nvarchar	53	Y
	Visible_Disturbance	nvarchar	50	Y
	FRCD_p_no_CM	nvarchar	53	Y
	FRCD_p	nvarchar	53	Y
	Evaluation_Necessity	nvarchar	50	Y
	Detailed_Survey_Flag	nvarchar	50	Y
	DetSurvey_Prepared_By	nvarchar	50	Y
	DetSurvey_Prepared_Date	nvarchar	50	Y
	DetSurvey_Checked_By	nvarchar	50	Y
	DetSurvey_Checked_Date	nvarchar	50	Y
	CM1_Work1	nvarchar	50	Y
	CM1_Unit1	nvarchar	50	Y
	CM1_Quantity1	nvarchar	50	Y
	CM1_UnitPrice1	nvarchar	50	Y
	CM1_Amount1	nvarchar	50	Y
	CM1_Work2	nvarchar	50	Y
	CM1_Unit2	nvarchar	50	Y
	CM1_Quantity2	nvarchar	50	Y
	CM1_UnitPrice2	nvarchar	50	Y
	CM1_Amount2	nvarchar	50	Y
	CM1_Work3	nvarchar	50	Y
	CM1_Unit3	nvarchar	50	Y
	CM1_Quantity3	nvarchar	50	Y
	CM1_UnitPrice3	nvarchar	50	Y
	CM1_Amount3	nvarchar	50	Y
	CM1_Work4	nvarchar	50	Y
	CM1_Unit4	nvarchar	50	Y
	CM1_Quantity4	nvarchar	50	Y

	Column Name	Data Type	Length	Allow Null
	CM3_Work1	nvarchar	50	Y
	CM3_Unit1	nvarchar	50	Y
	CM3_Quantity1	nvarchar	50	Y
	CM3_UnitPrice1	nvarchar	50	Y
	CM3_Amount1	nvarchar	50	Y
	CM3_Work2	nvarchar	50	Y
	CM3_Unit2	nvarchar	50	Y
	CM3_Quantity2	nvarchar	50	Y
	CM3_UnitPrice2	nvarchar	50	Y
	CM3_Amount2	nvarchar	50	Y
	CM3_Work3	nvarchar	50	Y
	CM3_Unit3	nvarchar	50	Y
	CM3_Quantity3	nvarchar	50	Y
	CM3_UnitPrice3	nvarchar	50	Y
	CM3_Amount3	nvarchar	50	Y
	CM3_Work4	nvarchar	50	Y
	CM3_Unit4	nvarchar	50	Y
	CM3_Quantity4	nvarchar	50	Y
	CM3_UnitPrice4	nvarchar	50	Y
	CM3_Amount4	nvarchar	50	Y
	CM3_Work5	nvarchar	50	Y
	CM3_Unit5	nvarchar	50	Y
	CM3_Quantity5	nvarchar	50	Y
	CM3_UnitPrice5	nvarchar	50	Y
	CM3_Amount5	nvarchar	50	Y
	CM3_Work6	nvarchar	50	Y
	CM3_Unit6	nvarchar	50	Y
	CM3_Quantity6	nvarchar	50	Y
	CM3_UnitPrice6	nvarchar	50	Y
	CM3_Amount6	nvarchar	50	Y
	CM3_Work7	nvarchar	50	Y
	CM3_Unit7	nvarchar	50	Y
	CM3_Quantity7	nvarchar	50	Y
	CM3_UnitPrice7	nvarchar	50	Y
	CM3_Amount7	nvarchar	50	Y
	Len_Survey_Road	nvarchar	53	Y
	Len_Detour_Road	nvarchar	53	Y
	AADT	nvarchar	53	Y
	Road_Closure_Days	nvarchar	53	Y
	Ave_Vehicle_Oper_Cost1	nvarchar	53	Y
	Ave_Vehicle_Oper_Cost2	nvarchar	53	Y
	Annual_Detour_Loss	nvarchar	53	Y
	Total_Annual_Loss	float	8	Y
	Plan_1_Cost	nvarchar	53	Y
	Plan_1_Disas_Reduc_Ratio	nvarchar	53	Y
	Plan_1_Annual_Benefit	nvarchar	53	Y
	Plan_1_FRCDp	nvarchar	53	Y
	Plan_1_Cost_Benefit_Ratio	nvarchar	53	Y
	Plan_1_Economic_Net	nvarchar	53	Y
	Plan_1_Economic_Rate	nvarchar	53	Y
	Plan_2_Cost	nvarchar	53	Y
	Plan_2_Disas_Reduc_Ratio	nvarchar	53	Y

23)Tb_Survey_Pt(continued)

	Column Name	Data Type	Length	Allow Null
	CM3_Work1	nvarchar	50	Y
	CM3_Unit1	nvarchar	50	Y
	CM3_Quantity1	nvarchar	50	Y
	CM3_UnitPrice1	nvarchar	50	Y
	CM3_Amount1	nvarchar	50	Y
	CM3_Work2	nvarchar	50	Y
	CM3_Unit2	nvarchar	50	Y
	CM3_Quantity2	nvarchar	50	Y
	CM3_UnitPrice2	nvarchar	50	Y
	CM3_Amount2	nvarchar	50	Y
	CM3_Work3	nvarchar	50	Y
	CM3_Unit3	nvarchar	50	Y
	CM3_Quantity3	nvarchar	50	Y
	CM3_UnitPrice3	nvarchar	50	Y
	CM3_Amount3	nvarchar	50	Y
	CM3_Work4	nvarchar	50	Y
	CM3_Unit4	nvarchar	50	Y
	CM3_Quantity4	nvarchar	50	Y
	CM3_UnitPrice4	nvarchar	50	Y
	CM3_Amount4	nvarchar	50	Y
	CM3_Work5	nvarchar	50	Y
	CM3_Unit5	nvarchar	50	Y
	CM3_Quantity5	nvarchar	50	Y
	CM3_UnitPrice5	nvarchar	50	Y
	CM3_Amount5	nvarchar	50	Y
	CM3_Work6	nvarchar	50	Y
	CM3_Unit6	nvarchar	50	Y
	CM3_Quantity6	nvarchar	50	Y
	CM3_UnitPrice6	nvarchar	50	Y
	CM3_Amount6	nvarchar	50	Y
	CM3_Work7	nvarchar	50	Y
	CM3_Unit7	nvarchar	50	Y
	CM3_Quantity7	nvarchar	50	Y
	CM3_UnitPrice7	nvarchar	50	Y
	CM3_Amount7	nvarchar	50	Y
	Len_Survey_Road	nvarchar	53	Y
	Len_Detour_Road	nvarchar	53	Y
	AADT	nvarchar	53	Y
	Road_Closure_Days	nvarchar	53	Y
	Ave_Vehicle_Oper_Cost1	nvarchar	53	Y
	Ave_Vehicle_Oper_Cost2	nvarchar	53	Y
	Annual_Detour_Loss	nvarchar	53	Y
	Total_Annual_Loss	float	8	Y
	Plan_1_Cost	nvarchar	53	Y
	Plan_1_Disas_Reduc_Ratio	nvarchar	53	Y
	Plan_1_Annual_Benefit	nvarchar	53	Y
	Plan_1_FRCDp	nvarchar	53	Y
	Plan_1_Cost_Benefit_Ratio	nvarchar	53	Y
	Plan_1_Economic_Net	nvarchar	53	Y
	Plan_1_Economic_Rate	nvarchar	53	Y
	Plan_2_Cost	nvarchar	53	Y
	Plan_2_Disas_Reduc_Ratio	nvarchar	53	Y

23)Tb_Survey_Pt(continued)

Column Name	Data Type	Length	Allow Null
Plan_2_Annual_Benefit	nvarchar	53	Y
Plan_2_FRCDp	nvarchar	53	Y
Plan_2_Cost_Benefit_Ratio	nvarchar	53	Y
Plan_2_Economic_Net	nvarchar	53	Y
Plan_2_Economic_Rate	nvarchar	53	Y
Plan_3_Cost	nvarchar	53	Y
Plan_3_Disas_Reduc_Ratio	nvarchar	53	Y
Plan_3_Annual_Benefit	nvarchar	53	Y
Plan_3_FRCDp	nvarchar	53	Y
Plan_3_Cost_Benefit_Ratio	nvarchar	53	Y
Plan_3_Economic_Net	nvarchar	53	Y
Plan_3_Economic_Rate	nvarchar	53	Y
Inspected_By	nvarchar	50	Y
Survey_Date	nvarchar	50	Y
Disas_Occur_Hr	nvarchar	50	Y
Disas_Occur_Date	nvarchar	50	Y
Disas_Type	nvarchar	50	Y
Reopen_Hr	nvarchar	50	Y
Reopen_Date	nvarchar	50	Y
No_Days_RCD	nvarchar	53	Y
Disas_Station_frm_km	nvarchar	53	Y
Disas_Station_frm_m	nvarchar	53	Y
Disas_Station_to_km	nvarchar	53	Y
Disas_Station_to_m	nvarchar	53	Y
Disas_Len	numeric	9	Y
Road_Closure_Type	nvarchar	50	Y
Disas_Cause	nvarchar	50	Y
Collapse_Materials	nvarchar	50	Y
Collapse_Volume	nvarchar	53	Y
Accum_Vol	nvarchar	53	Y
Total_Reopen_Cost_Est	numeric	9	Y
Total_Reopen_Cost_Act	numeric	9	Y
Reopen_Method	nvarchar	50	Y
No_Persons_Died	nvarchar	50	Y
No_Persons_Injured	nvarchar	50	Y
Name_CM1	nvarchar	50	Y
Station_Km1	nvarchar	50	Y
Station_M1	nvarchar	50	Y
Until_Km1	nvarchar	50	Y
Until_M1	nvarchar	50	Y
Name_CM2	nvarchar	50	Y
Station_Km2	nvarchar	50	Y
Station_M2	nvarchar	50	Y
Until_Km2	nvarchar	50	Y
Until_M2	nvarchar	50	Y
Name_CM3	nvarchar	50	Y
Station_Km3	nvarchar	50	Y
Station_M3	nvarchar	50	Y
Until_Km3	nvarchar	50	Y
Until_M3	nvarchar	50	Y
Name_CM4	nvarchar	50	Y
Station_Km4	nvarchar	50	Y

23)Tb_Survey_Pt(continued)

	Column Name	Data Type	Length	Allow Null
	Station_M4	nvarchar	50	Y
	Until_Km4	nvarchar	50	Y
	Until_M4	nvarchar	50	Y
	Name_CM5	nvarchar	50	Y
	Station_Km5	nvarchar	50	Y
	Station_M5	nvarchar	50	Y
	Until_Km5	nvarchar	50	Y
	Until_M5	nvarchar	50	Y
	Name_CM6	nvarchar	50	Y
	Station_Km6	nvarchar	50	Y
	Station_M6	nvarchar	50	Y
	Until_Km6	nvarchar	50	Y
	Until_M6	nvarchar	50	Y
	Rehab_Plan	nvarchar	50	Y
	Outline_Plan	nvarchar	50	Y
	Year_Created	nvarchar	50	Y
	GISFlag	bit	1	Y

Appendix-11

Road Slope Management System (RSMS)

Manual Volume 7

Schematic Diagram of Database Tables

Ver1.0 June 2007

The Department of Public Works and Highways

Note

The purpose of this appendix is to provide the users who are engaged in the administrative work for RSMS system with an overview of relationships between database tables.

In the following figures, the details of each database tables are hard to read. For details of database tables and their columns, please refer to Manual Volume 5 “List of Database Tables and Columns”

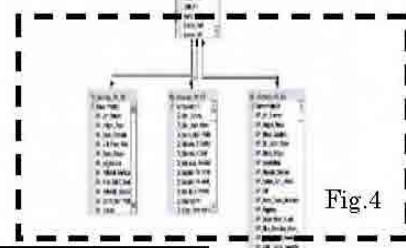
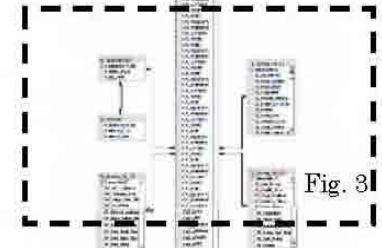
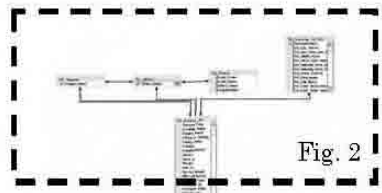


Fig.1
ER-diagram.
Whole structure in one figure.

Note.
See Appendix2 "List of Database Tables and Columns" for each table's detail.

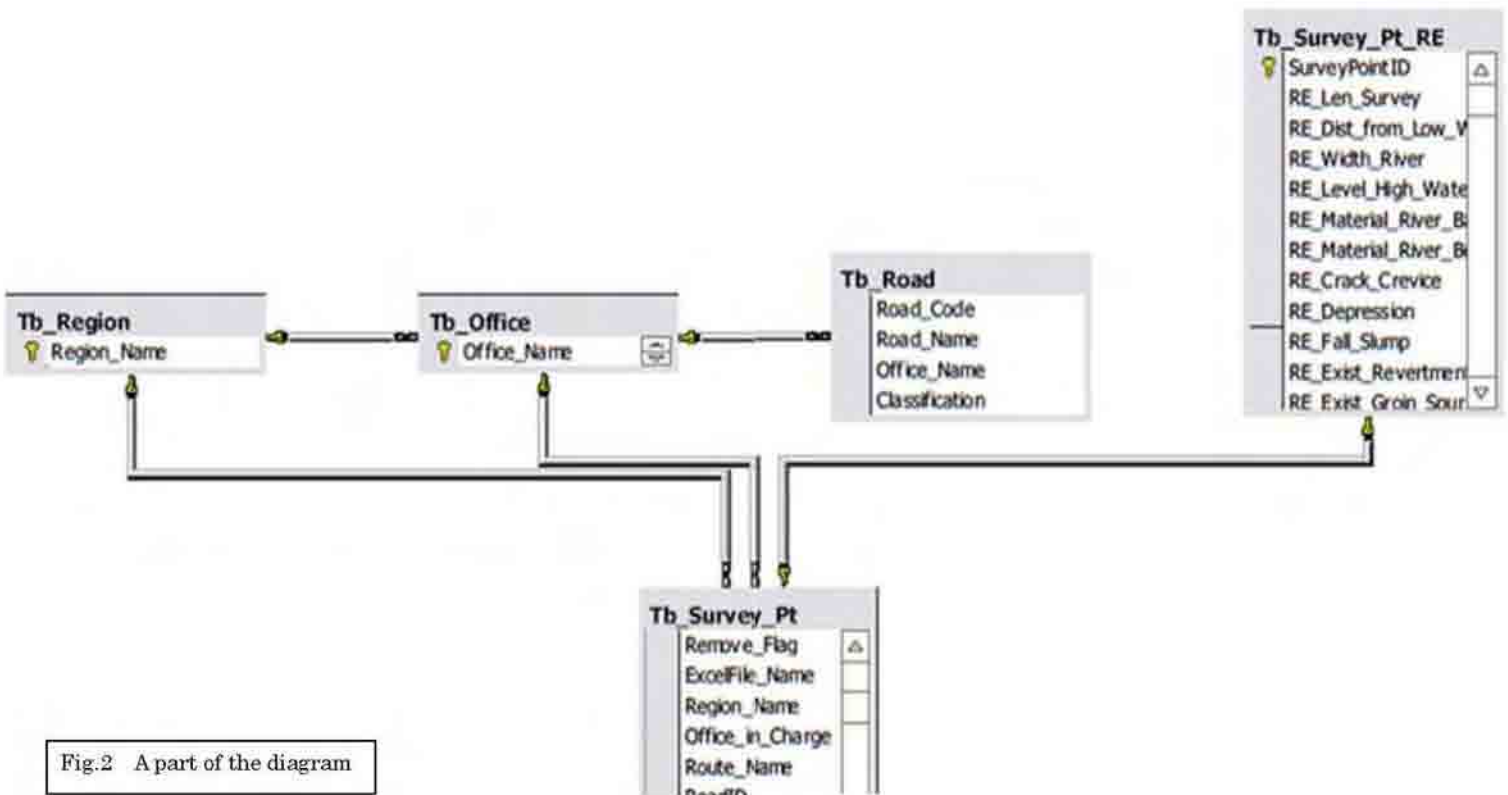


Fig.2 A part of the diagram

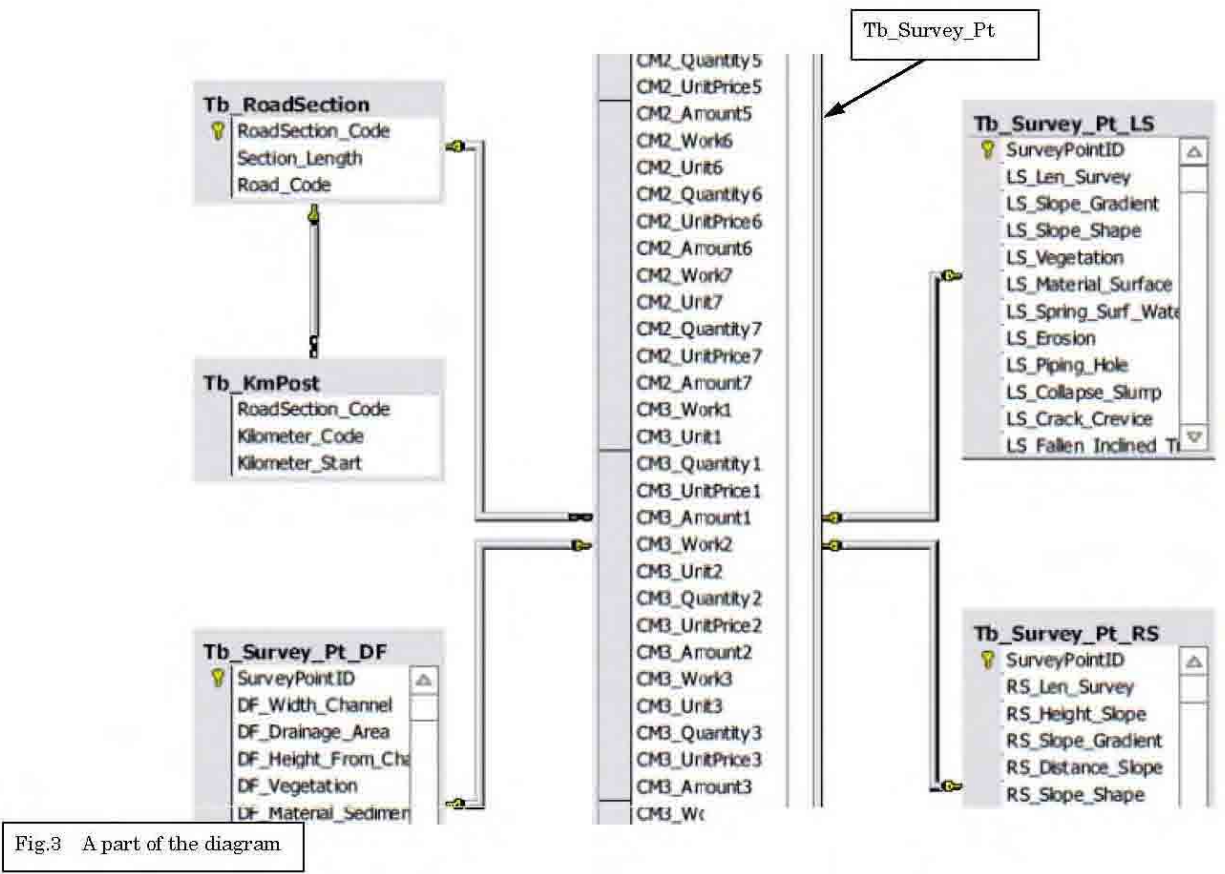


Fig.3 A part of the diagram

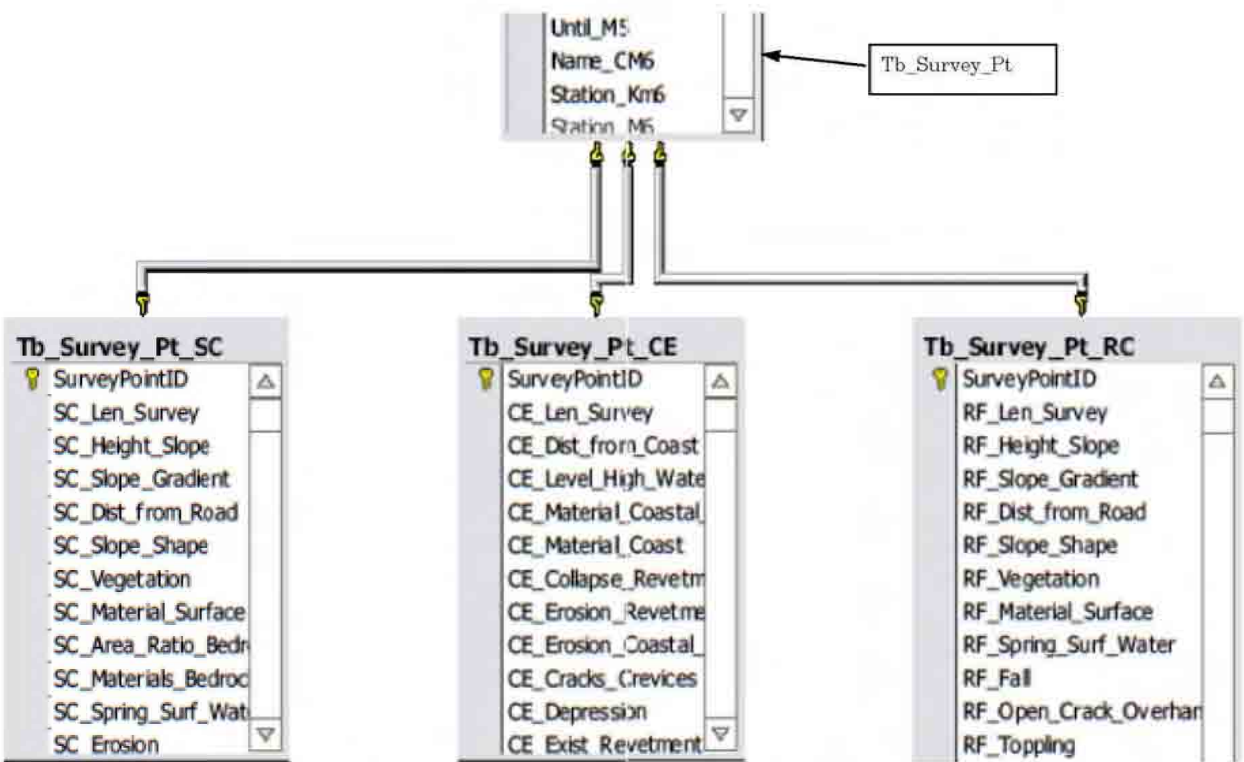


Fig.4 A part of the diagram