

**SURVEY TO CONSTRUCTION INTERDISCIPLINARY DATA EXCHANGES**

**OVERVIEW TABLE**

		Source Discipline							
		Survey	Roadway Design	Geology	Hydraulics	ROW	Bridge	Traffic Eng	Construction
Receiving Discipline	Survey	RD-SV-01 - project design survey request			HY-SV-01 - survey request	RW-SV-01 - ROW points file			
						RW-SV-02 - ROW reference alignment			
	Roadway Design	SV-RD-01 - as-surveyed alignment		GE-RD-01 - subsurface layers on profile view	HY-RD-01 - hydraulic analysis data	RW-RD-01 - ROW reference alignment	BR-RD-01 - 2D graphical layout file	TE-RD-01 - Traffic QTO	
		SV-RD-02 - OG terrain model		GE-RD-02 - subsurface layers on XS views	HY-RD-02 - HEC-RAS geometry file	RW-RD-02 - original and proposed ROW linework	BR-RD-02 - proposed contours map		
		SV-RD-03 - PDF survey fieldbook		GE-RD-03 - rock column	HY-RD-03 - 2D structure layout file	RW-RD-03 - graphical ROW exhibit			
		SV-RD-04 - project control points		GE-RD-04 - soils report general					
		SV-RD-05 - 2D topo file		GE-RD-05 - soils report pavement design					
		SV-RD-06 - all surveyed points file		GE-RD-06 - final design geology report					
		SV-RD-07 - all points station-offset report							
		SV-RD-08 - 2D contour file							
		SV-RD-09 - OG terrain breaklines file							
	Geology	SV-GE-01 - as-surveyed alignment	RD-GE-01 - soil survey				BR-GE-01 - 2D graphical layout file		CON-GE-01 - request for site visit
		SV-GE-02 - PDF survey fieldbook	RD-GE-02 - request pavt design parameters in soils report				BR-GE-02 - structure profile view		CON-GE-02 - request for pile driving analysis
			RD-GE-03 - retaining wall profiles				BR-GE-03 - request for subsurface survey		CON-GE-03 - request for drilled shaft construction analysis
			RD-GE-04 - retaining wall XS				BR-GE-04 - alignment		CON-GE-04 - request for materials testing
	Hydraulics	SV-HY-01 - valley section	RD-HY-01 - road alignment and profile	GE-HY-01 - grain size analysis					
		SV-HY-02 - terrain model breakline file	RD-HY-02 - base file	GE-HY-02 - stream bank stability analysis					
		SV-HY-03 - waterway opening section	RD-HY-03 - preliminary plan and XS						
		SV-HY-04 - OG terrain model	RD-HY-04 - pavement design parameters						
		SV-HY-05 - delineated drainage basins							
	ROW	SV-RW-01 - as-surveyed alignment	RD-RW-01 - base file			HY-RW-01 - grading limits			
		SV-RW-02 - section corner report	RD-RW-02 - preliminary plan sheets						
		SV-RW-03 - property line survey points							
	Bridge	SV-BR-01 - valley section	RD-BR-01 - road alignment and profile	GE-BR-01 - formal foundation design geology report	HY-BR-01 - XS at substructure units			TE-BR-01 - OH sign structure locations and sizes	
		SV-BR-02 - terrain model breakline file	RD-BR-02 - proposed XS at approaches	GR-BR-02 - retaining wall report				TE-BR-02 - lighting types and locations	
		SV-BR-03 - waterway opening section		BR-GE-03 - light tower report					
				BR-GE-04 - temporary shoring report					
	Environmental	SV-ENV-01 - 2D topo in KMZ	RD-ENV-01 - preliminary plan and XS	GE-ENV-01 - wetland mitigation testing report	HY-ENV-01 - preliminary erosion control plan				
		RD-ENV-02 - project overview KMZ		HY-ENV-02 - concentrated flow volumes					
				HY-ENV-03 - channel treatment calculations					
Traffic Eng		RD-TE-01 - base file				BR-TE-01 - footing design geology report			
		RD-TE-02 - road profile for sight distance							
Real Estate		RD-RE-01 - project overview KMZ							
						RW-RE-01 - ROW points file			
Utilities	SV-UT-01 - 2D topo file	RD-UT-01 - colorized plan for utility coordination		HY-UT-01 - notification of affected utilities					
Construction			GE-CON-01 - post site visit recommendation						
			GE-CON-02 - pile driving analysis						
			GE-CON-03 - drilled shaft construction analysis						
			GE-CON-04 - materials testing results						
PSE or Primary Deliverable		RD-PSE-01 - alignments and profiles for let				RW-PSE-01 - ROW points file	BR-PSE-01 - Bridge Plan	TE-PSE-01 - Traffic Engineering Plans	
		RD-PSE-02 - superelevation design				RW-PSE-02 - ROW reference alignment			
		RD-PSE-03 - cross section layout report				RW-PSE-03 - ROW Method Documentation			
		RD-PSE-04 - earthwork log file				RW-PSE-04 - parcel legal descriptions			
		RD-PSE-05 - base file				RW-PSE-05 - graphical ROW exhibit			
		RD-PSE-06 - Roadway Plan				RW-PSE-06 - ROW plan PDF			

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Survey Sourced Data Exchanges  
SV-RD-01 As-Surveyed Alignment

**Description**

As-surveyed alignment

**Pre-OpenSuite Format and Method**

ASCII text file from Geopak (input file?)

**OpenSuite Format and Method**

DGN

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

SV-RD-02 Original Ground Terrain Model

**Description**

Original ground terrain model

**Pre-OpenSuite Format and Method**

TIN file

**OpenSuite Format and Method**

DGN

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

SV-RD-03 Survey Field Book

**Description**

PDF survey field book with property owner names, control points, benchmark lists, GPS site calibration, photos.

**Pre-OpenSuite Format and Method**

PDF, JPG

**OpenSuite Format and Method**

PDF, JPG

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

SV-RD-04 Project Control Points

**Description**

Survey control points for project

**Pre-OpenSuite Format and Method**

?

**OpenSuite Format and Method**

DGN

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

SV-RD-05 2D Topo File

**Description**

2D cad file, plan view representation of existing conditions

**Pre-OpenSuite Format and Method**

DGN

**OpenSuite Format and Method**

DGN

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

SV-RD-06 All Surveyed Points File

**Description**

All points collected during design survey

**Pre-OpenSuite Format and Method**

GPK

**OpenSuite Format and Method**

DGN

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

SV-RD-07 All Surveyed Points File

**Description**

All points collected during design survey

**Pre-OpenSuite Format and Method**

GPK

**OpenSuite Format and Method**

DGN

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

SV-RD-08 2D Contour File

**Description**

2D contour file for original ground terrain model

**Pre-OpenSuite Format and Method**

GPK

**OpenSuite Format and Method**

Obsolete deliverable – replace by direct use of terrain model in DGN

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

SV-RD-09 Original Ground Breakline File

**Description**

3D breaklines of original ground terrain model

**Pre-OpenSuite Format and Method**

?

**OpenSuite Format and Method**

Obsolete deliverable – replace by direct use of terrain model in DGN

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

SV-BR-01 Hydraulic Survey Valley Section

**Description**

Hydraulic survey valley section

**Pre-OpenSuite Format and Method**

?

**OpenSuite Format and Method**

Obsolete deliverable – replace by direct use of terrain model in DGN

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

SV-BR-02 Hydraulic Survey Breakline File

**Description**

Hydraulic survey terrain model breakline file

**Pre-OpenSuite Format and Method**

?

**OpenSuite Format and Method**

Obsolete deliverable – replace by direct use of terrain model in DGN

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

SV-BR-03 Waterway Opening Section

**Description**

Hydraulic survey waterway opening section

**Pre-OpenSuite Format and Method**

?

**OpenSuite Format and Method**

Obsolete deliverable – replace by direct use of terrain model in DGN

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

SV-HY-01 Hydraulic Survey Valley Section

**Description**

Hydraulic survey valley section

**Pre-OpenSuite Format and Method**

?

**OpenSuite Format and Method**

Obsolete deliverable – replace by direct use of terrain model in DGN

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

SV-HY-02 Hydraulic Survey Breakline File

**Description**

Hydraulic survey terrain model breakline file

**Pre-OpenSuite Format and Method**

?

**OpenSuite Format and Method**

Obsolete deliverable – replace by direct use of terrain model in DGN

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

SV-HY-03 Waterway Opening Section

**Description**

Hydraulic survey waterway opening section

**Pre-OpenSuite Format and Method**

?

**OpenSuite Format and Method**

Obsolete deliverable – replace by direct use of terrain model in DGN

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

SV-HY-04 Original Ground Terrain Model

**Description**

Original ground terrain model

**Pre-OpenSuite Format and Method**

TIN file

**OpenSuite Format and Method**

DGN

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

SV-HY-05 Delineated Drainage Basins

**Description**

Delineated drainage basins for cross pipes, including land uses

**Pre-OpenSuite Format and Method**

DGN or hand drawings

**OpenSuite Format and Method**

DGN or hand drawings

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

SV-ENV-01 2D Topo KMZ

**Description**

2D topo in KMZ

**Pre-OpenSuite Format and Method**

KMZ

**OpenSuite Format and Method**

KMZ

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

SV-UT-01 2D Topo File

**Description**

2D cad file, plan view representation of existing conditions

**Pre-OpenSuite Format and Method**

DGN

**OpenSuite Format and Method**

DGN

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

## SV-GE-01 As-Surveyed Alignment

### **Description**

As-surveyed alignment

### **Pre-OpenSuite Format and Method**

ASCII text file from Geopak (input file?)

### **OpenSuite Format and Method**

DGN

### **Example Files**

<future links to examples>

### **Workflow and Learning Resources**

<future links to workflow documents and training sources>

SV-GE-02 Survey Field Book

**Description**

PDF survey field book with property owner names, control points, benchmark lists, GPS site calibration, photos.

**Pre-OpenSuite Format and Method**

PDF, JPG

**OpenSuite Format and Method**

PDF, JPG

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

## SV-RW-01 As-Surveyed Alignment

### **Description**

As-surveyed alignment

### **Pre-OpenSuite Format and Method**

ASCII text file from Geopak (input file?)

### **OpenSuite Format and Method**

DGN

### **Example Files**

<future links to examples>

### **Workflow and Learning Resources**

<future links to workflow documents and training sources>

SV-RW-02 Section Corners

### **Description**

Section corner location report

### **Pre-OpenSuite Format and Method**

ASCII text file

### **OpenSuite Format and Method**

DGN?

### **Example Files**

<future links to examples>

### **Workflow and Learning Resources**

<future links to workflow documents and training sources>

SV-RW-02 Property Line Locations

**Description**

Property line locations - iron pipe and right-of-way marker shots

**Pre-OpenSuite Format and Method**

ASCII text file

**OpenSuite Format and Method**

DGN

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

## Roadway Design Sourced Data Exchanges

RD-SV-01 Design Survey Request

### **Description**

Project design survey request

### **Pre-OpenSuite Format and Method**

[PDF](#)

### **OpenSuite Format and Method**

[PDF](#)

### **Example Files**

[<future links to examples>](#)

### **Workflow and Learning Resources**

[<future links to workflow documents and training sources>](#)

RD-BR-01 Proposed Roadway Alignment and Profile

**Description**

Proposed roadway alignment and profile

**Pre-OpenSuite Format and Method**

GPK

**OpenSuite Format and Method**

DGN

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

RD-BR-02 Preliminary Proposed Cross Sections

**Description**

Preliminary proposed cross sections at approaches

**Pre-OpenSuite Format and Method**

GPK

**OpenSuite Format and Method**

DGN?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

RD-HY-01 Proposed Roadway Alignment and Profile

**Description**

Proposed roadway alignment and profile

**Pre-OpenSuite Format and Method**

GPK

**OpenSuite Format and Method**

DGN

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

RD-HY-02 Base file

**Description**

2D proposed roadway features

**Pre-OpenSuite Format and Method**

DGN

**OpenSuite Format and Method**

DGN

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

RD-HY-03 Preliminary Proposed Plan and Cross Sections

**Description**

Preliminary proposed plan and cross sections

**Pre-OpenSuite Format and Method**

PDF

**OpenSuite Format and Method**

DGN?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

RD-HY-04 Pavement Design Values

**Description**

Pavement design delivery of earthwork VMF, soil value for pipe materials, erodibility of slopes

**Pre-OpenSuite Format and Method**

PDF

**OpenSuite Format and Method**

PDF?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

RD-ENV-01 Preliminary Proposed Plan and Cross Sections

**Description**

Preliminary proposed plan and cross sections

**Pre-OpenSuite Format and Method**

PDF

**OpenSuite Format and Method**

PDF?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

RD-ENV-02 Project Layout

**Description**

Visual layout of project

**Pre-OpenSuite Format and Method**

KMZ

**OpenSuite Format and Method**

KMZ

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

RD-GE-01 Soil survey request

**Description**

Soil survey request

**Pre-OpenSuite Format and Method**

?

**OpenSuite Format and Method**

?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

RD-GE-02 Request for Pavement Design Parameters

**Description**

Request for pavement design parameters to be included in soils report.

**Pre-OpenSuite Format and Method**

?

**OpenSuite Format and Method**

?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

RD-GE-03 Retaining Wall Profiles

**Description**

Profiles representing top and bottom of retaining walls

**Pre-OpenSuite Format and Method**

PDF

**OpenSuite Format and Method**

DGN?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

RD-GE-04 Retaining Wall XS

**Description**

Retaining wall cross sections showing cut/fill heights

**Pre-OpenSuite Format and Method**

PDF

**OpenSuite Format and Method**

DGN?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

RD-UT-01 Utility Coordination Plan

**Description**

Colorized plan for utility coordination process

**Pre-OpenSuite Format and Method**

PDF

**OpenSuite Format and Method**

PDF

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

RD-RW-01 Base file

**Description**

2D proposed roadway features

**Pre-OpenSuite Format and Method**

DGN

**OpenSuite Format and Method**

DGN

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

RD-RW-02 Preliminary Plan

**Description**

Preliminary roadway plan

**Pre-OpenSuite Format and Method**

PDF

**OpenSuite Format and Method**

PDF (If purpose is to communicate construction limits so proposed RW linework can be established, then DGN may be a better format. Needs further discussion with KDOT roadway design and ROW groups)

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

RD-TE-01 Base file

**Description**

2D proposed roadway features

**Pre-OpenSuite Format and Method**

DGN

**OpenSuite Format and Method**

DGN

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

RD-TE-02 Proposed roadway profile

**Description**

Proposed roadway profile for sight distance analysis

**Pre-OpenSuite Format and Method**

GPK

**OpenSuite Format and Method**

DGN

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

RD-RE-01 Project overview KMZ

**Description**

Map based project overview for RW acquisition negotiations

**Pre-OpenSuite Format and Method**

KMZ

**OpenSuite Format and Method**

KMZ

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

RD-PSE-01 Project Alignments and Profiles

**Description**

All project alignments and profile for letting package

**Pre-OpenSuite Format and Method**

ASCII text file (geopak output)

**OpenSuite Format and Method**

LandXML

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

RD-PSE-02 Superelevation Design

**Description**

All roadways superelevation designs for letting package

**Pre-OpenSuite Format and Method**

ASCII text file (Superelevation input file)

**OpenSuite Format and Method**

TBD?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

RD-PSE-03 Cross section layout report

**Description**

Cross section layout report of TOP surface for letting package

**Pre-OpenSuite Format and Method**

ASCII text file

**OpenSuite Format and Method**

TBD?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

RD-PSE-04 Earthwork Log

**Description**

Earthwork log file for letting package

**Pre-OpenSuite Format and Method**

ASCII text file

**OpenSuite Format and Method**

TBD?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

RD-PSE-05 Base file

**Description**

2D proposed roadway features

**Pre-OpenSuite Format and Method**

DGN

**OpenSuite Format and Method**

DGN

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

RD-PSE-06 Roadway Plan

**Description**

Final Roadway Plan

**Pre-OpenSuite Format and Method**

PDF

**OpenSuite Format and Method**

PDF

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

## Geology Sourced Data Exchanges

GE-RD-01 Subsurface Layers - Profile

### **Description**

Subsurface layers for profile views

### **Pre-OpenSuite Format and Method**

DGN (manual drafting)

### **OpenSuite Format and Method**

DGN (method TBD)

### **Example Files**

<future links to examples>

### **Workflow and Learning Resources**

<future links to workflow documents and training sources>

GE-RD-02 Subsurface Layers - XS

**Description**

Subsurface layers for cross section views

**Pre-OpenSuite Format and Method**

DGN (manual drafting)

**OpenSuite Format and Method**

DGN (method TBD)

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

GE-RD-03 Rock Column

**Description**

Plan set report of general geology conditions including depth to rock at borings, rock cut info, topsoil depth reports

**Pre-OpenSuite Format and Method**

?

**OpenSuite Format and Method**

TBD

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

GE-RD-04 Soils Report General

**Description**

Soils report with general soils conditions and project specific design recommendations

**Pre-OpenSuite Format and Method**

PDF?

**OpenSuite Format and Method**

PDF?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

GE-RD-05 Soils Report Pavement Design

### **Description**

soils report with information and recommendations specific to pavement design parameters

### **Pre-OpenSuite Format and Method**

PDF?

### **OpenSuite Format and Method**

PDF?

### **Example Files**

<future links to examples>

### **Workflow and Learning Resources**

<future links to workflow documents and training sources>

GE-RD-06 Final Design Geology Report

**Description**

Final design geology report

**Pre-OpenSuite Format and Method**

PDF?

**OpenSuite Format and Method**

PDF?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

GE-BR-01 Foundation Design Geology Report

**Description**

Formal foundation design geology report

**Pre-OpenSuite Format and Method**

PDF?

**OpenSuite Format and Method**

PDF?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

GE-BR-02 Slope Stability Report

**Description**

Slope stability and settlement, retaining wall report

**Pre-OpenSuite Format and Method**

PDF?

**OpenSuite Format and Method**

PDF?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

GE-BR-03 Light Tower Report

**Description**

Light tower report

**Pre-OpenSuite Format and Method**

PDF?

**OpenSuite Format and Method**

PDF?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

GE-BR-04 Temporary Shoring Report

**Description**

Temporary shoring report

**Pre-OpenSuite Format and Method**

PDF?

**OpenSuite Format and Method**

PDF?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

GE-HY-01 Grain Size Analysis

**Description**

Grain size analysis for permeability and erosion

**Pre-OpenSuite Format and Method**

PDF?

**OpenSuite Format and Method**

PDF?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

GE-HY-02 Stream Bank Stability Analysis

**Description**

Stream bank stability analysis report

**Pre-OpenSuite Format and Method**

PDF?

**OpenSuite Format and Method**

PDF?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

GE-ENV-01 Wetland Mitigation Testing Report

**Description**

Wetland mitigation testing results and recommendations report

**Pre-OpenSuite Format and Method**

PDF?

**OpenSuite Format and Method**

PDF?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

GE-CON-01 Post Site Visit Recommendations

**Description**

Post Site Visit Recommendations

**Pre-OpenSuite Format and Method**

PDF?

**OpenSuite Format and Method**

PDF?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

GE-CON-02 Pile Driving Analysis

**Description**

Pile drive analysis when warranted

**Pre-OpenSuite Format and Method**

PDF?

**OpenSuite Format and Method**

PDF?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

GE-CON-03 Drilled Shaft Construction Analysis

**Description**

Drilled shaft construction analysis

**Pre-OpenSuite Format and Method**

PDF?

**OpenSuite Format and Method**

PDF?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

GE-CON-04 Materials Testing Results

**Description**

Materials testing results reporting

**Pre-OpenSuite Format and Method**

PDF?

**OpenSuite Format and Method**

PDF?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

## Hydraulics Sourced Data Exchanges

HY-SV-01 Survey Request

### **Description**

Survey request

### **Pre-OpenSuite Format and Method**

Paper form

### **OpenSuite Format and Method**

KMZ? ConceptStation?

### **Example Files**

<future links to examples>

### **Workflow and Learning Resources**

<future links to workflow documents and training sources>

HY-RD-01 Hydraulic Analysis Data

**Description**

Hydraulic analysis data in spreadsheets, HY-8 or HEC-RAS Files

**Pre-OpenSuite Format and Method**

XLSX, HY-8, HEC-RAS

**OpenSuite Format and Method**

XLSX, HY-8, HEC-RAS

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

HY-RD-02 HEC-RAS Geometry File

**Description**

HEC-RAS geometry file

**Pre-OpenSuite Format and Method**

?

**OpenSuite Format and Method**

?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

HY-RD-03 2D Structure Layout File

**Description**

Layout file - approximate 2D graphical substructure units layout for roadway plans

**Pre-OpenSuite Format and Method**

DGN

**OpenSuite Format and Method**

DGN

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

HY-RW-01 Substructure Grading Limits

**Description**

Substructure grading limits for easements and acquisitions

**Pre-OpenSuite Format and Method**

PDF?, DGN?

**OpenSuite Format and Method**

PDF?, DGN?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

HY-BR-01 XS at Substructure Units

**Description**

XS design of proposed grading around substructure units

**Pre-OpenSuite Format and Method**

PDF?, DGN?

**OpenSuite Format and Method**

PDF?, DGN?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

HY-ENV-01 Preliminary Erosion Control Plan

**Description**

XS design of proposed grading around substructure units

**Pre-OpenSuite Format and Method**

PDF

**OpenSuite Format and Method**

PDF? DGN?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

HY-ENV-02 Concentrated Flow Volumes

**Description**

Concentrated Flow Volumes

**Pre-OpenSuite Format and Method**

Paper form or XLSX

**OpenSuite Format and Method**

Paper form or XLSX?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

HY-ENV-03 Channel Treatment Type Calculations

**Description**

Channel Treatment Type Calculations

**Pre-OpenSuite Format and Method**

XLSX

**OpenSuite Format and Method**

XLSX?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

HY-UT-01 Affected Utilities Notification

**Description**

notification of utilities affected by hydraulics

**Pre-OpenSuite Format and Method**

KMZ, PDF

**OpenSuite Format and Method**

KMZ, PDF

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

## Right of Way Sourced Data Exchanges

RW-SV-01 ROW Point File

### **Description**

ASCII point file for staking, provided to Real Estate for appraisal staking. Part of ROW staking package

### **Pre-OpenSuite Format and Method**

ASCII text file from Geopak (input file?)

### **OpenSuite Format and Method**

DGN, or ASCII point file, or LandXML?

### **Example Files**

<future links to examples>

### **Workflow and Learning Resources**

<future links to workflow documents and training sources>

RW-SV-02 ROW Alignment

**Description**

RW alignment shared as geometry description file (ascii), part of ROW staking package

**Pre-OpenSuite Format and Method**

ASCII text file from Geopak

**OpenSuite Format and Method**

DGN, or Geometry description file, or LandXML?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

RW-RD-01 ROW Alignment

**Description**

RW alignment shared as geometry description file (ascii), part of ROW staking package

**Pre-OpenSuite Format and Method**

?

**OpenSuite Format and Method**

DGN

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

RW-RD-02 ROW Linework

**Description**

Original and new RW linework

**Pre-OpenSuite Format and Method**

?

**OpenSuite Format and Method**

DGN

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

RW-RD-03 Graphical ROW Exhibit

**Description**

Graphic exhibit representing right of way (RWR), DGN referenced by roadway design

**Pre-OpenSuite Format and Method**

DGN

**OpenSuite Format and Method**

DGN

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

RW-RE-01 ROW Point File

### **Description**

ASCII point file for staking, provided to Real Estate for appraisal staking. Part of ROW staking package

### **Pre-OpenSuite Format and Method**

ASCII text file from Geopak (input file?)

### **OpenSuite Format and Method**

DGN, or ASCII point file, or LandXML?

### **Example Files**

<future links to examples>

### **Workflow and Learning Resources**

<future links to workflow documents and training sources>

RW-RE-02 ROW KMZ

**Description**

Right of way KMZ, used by real estate appraisers

**Pre-OpenSuite Format and Method**

ASCII text file from Geopak (input file?)

**OpenSuite Format and Method**

DGN, or ASCII point file, or LandXML?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

RW-PSE-01 ROW Point File

### **Description**

ASCII point file for staking, provided to Real Estate for appraisal staking. Part of ROW staking package

### **Pre-OpenSuite Format and Method**

ASCII text file from Geopak (input file?)

### **OpenSuite Format and Method**

LandXML

### **Example Files**

<future links to examples>

### **Workflow and Learning Resources**

<future links to workflow documents and training sources>

## RW-PSE-02 ROW Alignment

### **Description**

RW alignment shared as geometry description file (ascii), part of ROW staking package

### **Pre-OpenSuite Format and Method**

Geometry description file

### **OpenSuite Format and Method**

LandXML

### **Example Files**

<future links to examples>

### **Workflow and Learning Resources**

<future links to workflow documents and training sources>

## RW-PSE-03 ROW Method Documentation

### **Description**

Documentation of methods used to establish ROW geometry

### **Pre-OpenSuite Format and Method**

Geopak input file and/or COGO output file

### **OpenSuite Format and Method**

Civil accudraw tools with creation method trails embedded in DGN, possibly supplemented by point description manual entries and point report

### **Example Files**

<future links to examples>

### **Workflow and Learning Resources**

<future links to workflow documents and training sources>

RW-PSE-04 Legal Descriptions

**Description**

Legal Descriptions of parcel geometry

**Pre-OpenSuite Format and Method**

Output file report from Geopak with custom VBA language additions and some manual editing

**OpenSuite Format and Method**

Legal description report from OpenSite with some manual editing

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

RW-PSE-05 Graphical ROW Exhibit

**Description**

Graphic exhibit representing right of way (RWR), DGN

**Pre-OpenSuite Format and Method**

DGN?

**OpenSuite Format and Method**

DGN?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

RW-PSE-06 ROW Plan

**Description**

RW plan pdf, part of ROW staking package

**Pre-OpenSuite Format and Method**

PDF

**OpenSuite Format and Method**

PDF

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

Bridge Sourced Data Exchanges  
BR-RD-01 2D Structure Layout File

**Description**

Layout file - approximate 2D graphical substructure units layout for roadway plans

**Pre-OpenSuite Format and Method**

DGN

**OpenSuite Format and Method**

DGN

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

BR-RD-02 2D Proposed Contour Map

### **Description**

Layout file - approximate 2D graphical substructure units layout for roadway plans

### **Pre-OpenSuite Format and Method**

PDF

### **OpenSuite Format and Method**

obsolete - ORD terrain model in DGN replaces this need

### **Example Files**

<future links to examples>

### **Workflow and Learning Resources**

<future links to workflow documents and training sources>

BR-GE-01 2D Structure Layout File

**Description**

Layout file - approximate 2D graphical substructure units layout for roadway plans

**Pre-OpenSuite Format and Method**

DGN

**OpenSuite Format and Method**

DGN

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

BR-GE-02 Structure Profile View

**Description**

Structure Profile View

**Pre-OpenSuite Format and Method**

DGN

**OpenSuite Format and Method**

DGN

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

BR-GE-03 Request for Survey

**Description**

Request for Survey

**Pre-OpenSuite Format and Method**

PDF?

**OpenSuite Format and Method**

PDF?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

BR-GE-04 Alignment

**Description**

Alignment provided if changes were made

**Pre-OpenSuite Format and Method**

GPK?

**OpenSuite Format and Method**

DGN

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

BR-TE-01 Footing Design Geology Report

**Description**

Footing Design Geology Report

**Pre-OpenSuite Format and Method**

PDF?

**OpenSuite Format and Method**

PDF?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

BR-PSE-01 Bridge Plan

**Description**

Bridge Plan

**Pre-OpenSuite Format and Method**

PDF

**OpenSuite Format and Method**

PDF

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

## Traffic Engineering Sourced Data Exchanges

TE-BR-01 Overhead Sign Info

### **Description**

Overhead sign structure locations, sign sizes

### **Pre-OpenSuite Format and Method**

?

### **OpenSuite Format and Method**

DGN? KMZ?

### **Example Files**

<future links to examples>

### **Workflow and Learning Resources**

<future links to workflow documents and training sources>

TE-BR-02 Proposed Lighting Info

**Description**

Proposed lighting types and locations. Lat/Long from Google Maps function in MicroStation

**Pre-OpenSuite Format and Method**

KMZ?

**OpenSuite Format and Method**

DGN? KMZ?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

TE-RD-01 Traffic QTO

**Description**

Quantity take-off of traffic engineering designed proposed work

**Pre-OpenSuite Format and Method**

?

**OpenSuite Format and Method**

DGN? XLSX?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

TE-PSE-01 Traffic Engineering Plans

**Description**

Plans for signing, pavement marking, traffic control, and lighting

**Pre-OpenSuite Format and Method**

PDF

**OpenSuite Format and Method**

PDF

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

## Construction Sourced Data Exchanges

CON-GE-01 Site Visit Request

### **Description**

Site Visit Request

### **Pre-OpenSuite Format and Method**

PDF?

### **OpenSuite Format and Method**

PDF?

### **Example Files**

<future links to examples>

### **Workflow and Learning Resources**

<future links to workflow documents and training sources>

CON-GE-02 Pile Driving Analysis Request

**Description**

Pile Driving Analysis Request

**Pre-OpenSuite Format and Method**

PDF?

**OpenSuite Format and Method**

PDF?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

CON-GE-03 Drilled Shaft Construction Analysis Request

**Description**

Drilled Shaft Construction Analysis Request

**Pre-OpenSuite Format and Method**

PDF?

**OpenSuite Format and Method**

PDF?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>

CON-GE-04 Materials Testing Request

**Description**

Materials Testing Request

**Pre-OpenSuite Format and Method**

PDF?

**OpenSuite Format and Method**

PDF?

**Example Files**

<future links to examples>

**Workflow and Learning Resources**

<future links to workflow documents and training sources>