



Project Setup and Settings to best utilize Field To Finish Projects for both the Field and Office with Carlson Software
Perform steps processing field collected data with SurvPC Field Collection Software
Perform steps processing field data with Carlson Survey and best practices gathering data from your field surveying software
Field/Group Exercise on Creating and Sharing a Field To Finish file...
Explore the options within Point Cloud Data from Drone (or Terrestrial) and utilize what you've learned in F2F
Explore and Learn the Feature Extraction Options within Carlson Software



Eield-to-Finish What is a Field-to-Finish program within your origination? A Field-to-Finish program has a user defined code table that controls how field surveyed points with these codes or descriptions will draw in CAD as connected line work and symbols in pre-defined layers

<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><text><text><text>

5

Carlso					_			ເວເ	
		ev:	Surve	$\rightarrow D$	эи	Field	to	Finisl	5
Field to Finish		-/-	,					- 0	-
	DITLO INT								
Categorian.	DALACCSM/II	Code Defini	nish/koad-site-pond	Lord, CODEC/Can	son Proje	etts/Settings/cariso	n.na		
di - 2 A	Searc	h:	0010						
	<u> </u>	Codo	E di M	2000	0	acciption	Sumbol	Linghung	
Unassigned	2.43	Luin	HILLIE & TACK SE	ame	UST CET	scription	Symbol	continuour	17
SET CONTROL	Edit	IPS	IRON PIN SET		ID SET		sot5	continuous	
GROUND FEATURES	Edda	MONS	MONUMENT SE	т	MONICET		sot12	continuous	
FENCES & WALLS	Ede	CM	CONCRETE MONUMENT PK NAIL SET START STAKE TRAVERSE POINT CROSS CUT IN CONC		CONCRETE MONUMENT PK SET START STK Road X-CUT		SPT6	continuous	
ROAD FEATURES	Edit	PK					sot3	continuous	
UTILITIES	Edit	START					sot46	BYLAYER	
WATER	Edit	STK					sot31	continuous	
SMALL TREES & SHRU	es Edit	RD					spt15	continuous	
SMALL PINES TREES	Edit	XC					spt10	BYLAYER	
PINE TREES	Edit	STWALL	STONEWALL	1	STNWALL		spt10	Wall_E	
mise coves	Edit	DH	DH	1			spt3	continuous	
	Edit	IP	IRON PIN	1	IRON PI	N	SPT5	continuous	5
Code Table			ode Definitions			Easture Setting			
Code Ta	ble Settings		Edit	Column Opt	Column Options Tree Sets		up Pipe Setup		
Sort Table	Substitution C	odes	Select All	Move Cate					
Searial Codes	CIS Coder		144	Com				200	
Special Codes	SIS Codes		Add Copy				Symbol L	brary	
Code Table by	Point Descriptions			Delete			Edit Poi	nts	
Save	Save As		Move Up	Move Do	wn	De	and Cade	. Deinte	
						Re	pon Lode	s/ewiins	

	Carl REAK NEW SUI	SON GROUND	File →	Field-t Code List	o-Finish				
<u>)</u> Co	de List:	AS1				(+			
Catego	ry:	ALL			Set Manage	e Groups			
Code L	inework	Line Typ	e Layer Na	ame Full Text	Code				
CL	Yes	3D	CL	CL	CL CL				
DRIVE	No	2D	PKF		DRIVE				
EOP	Yes	3D	EOP		EOP				
EP	Yes	3D	EP		EP				
Add				Edit					
Load				Save As	es				







		on. Fiel <i>"spe</i>	d-	·to-Fil <i>codes"</i>	ni	sh	
Special Codes							
General Special Codes NE Code (No Elevation) YZ Code (Ies Elevation)	NE YZ	NOS Code (Non-Surface) ZO Code (Elevation Only)	NOS ZO	Unework Special Codes BEG Code (Begin Linework) PC Code (Start Curve)	8 PC	END Code (End Linework) PT Code (End Curve)	E PT
Character (Prefix Desc)	<u>×</u>	\\ Code (Prefix Field Code Desc)	//	CTOG Code (Curve Toggle)	CTOG	NEAR Code (Nearest Found)	NEAR
Bar Separater (End Coding)	<u>1</u>	// Code (Append Held Code Desc) /// Separater (Replace Desc)	// ///	OH Code (Offset Horiz)	ОН	OV Code (Offset Vertical)	
Code Separater (Space) MULT Code (Multiple Field Code) MULT Substitute Characters + (Plus) - (Minus) - "(Astensk) - (Underscore)				OO Code (Only Offset)	00	Orb Code (Onset both Dig	OFB
Point Symbol/Attribute Speci ROT Code (Rotate)	al Codes ROT	SZ Code (Symbol Size)	5Z	SMO Code (Smooth)	SMO	JOG Code (Extend By Distance)	JOG
¥ZI Code (Azimuth) Multi-Point 2ND Code	AZI 2ND	DIST Code (Distance) Multi-Point 3RD Code	DIST	GAP Code (Gap) AFIT Code (Fit Arc)	GAP AFIT	LTF Code (Linetype Flip) LTW Code (Linetype Width)	UTF UTW
PHOTO Code COLOR Code	PHOTO	LABEL Code	LABEL	BFIT Code (Best-Fit Line) XSCT Code (Template)	BFIT XSCT	RAMP Code (Curb Ramp) PARKING Code (Parking)	RAMP
PHOTO Link Carlson O Hyperlink	OFB	Offset Width		3D Face Special Codes FACE3D Code (3D Face)	FACE3D	HOLE3D Code (3D Hole)	HOLESD
2-Point Circle	Third	Rectangle Point		BLOCK3D Code (3D Block)	BLOCK3	WALL3D Code (3D Wall)	WALL3D
Append Desc Auto Space OK Cancel	Help	Load Default					

	Carlson BREAK NEW GROUT	י Field-to-Finisl <i>"Special Codes"</i>	h		
🔍 s	pecial Codes	i 🔊 🗸			
Code	Action		•		
Space	Code Separator				
None	String Designator	Settings	10.00	\checkmark	Х
ST	Begin Line	· · · · · · · · · · · · · · · · · · ·	Prom	npt At:	
EL	End Line	Store GIS Line Data to All Vertices	End		•
PC	Arc PC	Add New Descriptions to FC List Save Only One GIS Feature to the Stored Pt			-
PT	Arc PT	Store Attribute(AT) to RW5 File			
Carlso	'n	Auto-increment Colors for Linework Auto-increment Layers for Linework Recall Last Point Note Secure Deta Data Lists			
		Auto-Create Linework Laver: <code> <layer></layer></code>			-





















Carlson. Field	-to-Finis	h
Field Codes - Num	eric	DNNECTS"
	IDD STRIES_ INCOLORIDATA STRIEAC CONTINUE STRIEAC CONTINUE STRIEAC CONTINUE Strieac Striege Striege	ACCURATE ALTAINES & SIGAR 1997 THE NEW YORK OF THE SIGN OF THE SI

Carlson.								
Fiel	d Co	odes –	Sym	bols an	d Lin	ework		
<u>LEGEND</u>					/			
SURVEY CONTROL:		TOPOGRAPHIC:		UTILITIES:		UTIUTIES (CONT):	_	
BOUNDARY LINE		CONTOUR-5' INDEX		STORM SEWER LINE	- 0. 9	ELECTRIC MANHOLE	0	
PARCEL/ADJOINER LINES -		CONTOUR-1"		SANITARY SEWER	EC. 5	POWER POLE	00	
PROPERTY LAND HOOKS -	2	SPOT ELEVATION	1896.25	WATER LINE		LIGHT POLE	6	
RIGHT OF WAY		TREE LINE	mm	GAS LINE	- D. 0	COMBINATION POLE	u Po	
LIMITED ADCESS R/W		SHRUB/BRUSH LINE	mmmmm	ELECTRIC, UNDERGROUND	- D. UE	GROUND LIGHT	C O	
SETBACK LINE -		DECIDUOUS TREE	Q.	ELECTRIC, OVERHEAD		UTILITY/GUY POLE	6	
EASEMENT LIVE -		EVERGREEN TREE	-	TELEPHONE, UNDERGROUND	— p. ur —	LIGHT POLE BASE	0	
TEMP. EASEMENT LINE -		BUSH OR SHRUB	83	TELEPHONE, OVERHEAD	— p. or —	ELECTRIC LINE MARKER	4	
SECTION/WAS LINE		STUMP	4	CABLE TV	— D. O. —	ELECTRIC LIVE PAINT MARK	5	
CORPORATION LINE		WATER BODY/DITCH		FIBER OPTIC CABLE	- EL 10	PULL BOX	8	
POLITICAL TOWNSHIP LINE -		SHORE LINE		STORM MANHOLE	0.	JUNCTION BOX		
BENCH MARK		SWAMP	*	CURB INLET	Ξ.	WALLT BOX		
MONUMENT BOX (FOUND)	88	CENTERLINE		CATCH BASIN	Elce	ELECTRIC REDULATOR	8	
CONC. MONUMENT (FOUND)		PRVEMENT, CONCRETE		CATCH BASIN-ROUND	0.0	CONTROL PANEL	1	
HUB (FOUND)	a	PRVEWENT, ASPHALT		CATCH BASIN-SIDE INLET		TRANSFORMER	Ð	
SPIKE (FOUND)	Δ	PAVEMENT, BRICK		DRAW	P _{on}	HVAC UNIT	8	
SOLID (RON PIN (FOLMD)	8	PAVEMENT, GRAVEL		SANTARY MANHOLE	Q.,	TELEPHONE MANHOLE	Ø.,	















































41

Carlson.

Point Cloud Transformations

- Scale Quickly scale between common units such as US Feet and Meters
- Elevate by Geoid or offset Changes elevation of all points
- Change Projection Transform from one projection system to another.
- Must know the current point cloud projection and target projection
 Transformation Wizard offers advanced options for

Partnering You With the World 2010

 Transformation wizard offers advanced options to scaling, offset and rotation by matrix.





























































































