

SANGIS Maintenance Tools

February 14, 2013

SanGIS Maintenance Tools include the Maintenance Toolbar and the underlying Class Extensions integrated with the database.

The SanGIS Maintenance Toolbar

The SanGIS Maintenance Toolbar tools are grouped and color coded by related features.











Each tool set is described below with their icon, tool description, and any activation requirements





ICON	TOOL DESCRIPTION	REQUIREMENTS
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UPDATE FORMS Update Forms ▾		
	Add or Edit Road Name	1. NO Edit Sesion 2. Any non-anno or Topology T. feature class
	Add or Update Subdiv Log	1. NO Edit Sesion 2. Any non-anno or Topology T. feature class
	Add or Edit Cut Log	1. NO Edit Sesion 2. Any non-anno or Topology T. feature class
	Add or Edit ROS Log	1. NO Edit Sesion 2. Any non-anno or Topology T. feature class
	Edit City Address Log	1. NO Edit Sesion 2. Any non-anno T. feature class

QUERY FORMS Query Forms ▾		
	Query APN or Parcel	1. Any non-anno or Topology T. feature class
	Query MPR Info	1. Any non-anno or Topology T. feature class
	Query Subdivision Log	1. Any non-anno or Topology T. feature class
	Query Roads or RoadSegs	1. Any non-anno or Topology T. feature class
	Query Control Monuments	1. Any non-anno or Topology T. feature class
	Query Parcel Backlog	1. Any non-anno or Topology T. feature class
	Query Record of Survey	1. Any non-anno or Topology T. feature class
	Query Address Point Issues	2. Any non-anno or Topology T. feature class
	Review Overlapping Block Ranges	1. Any non-anno or Topology T. feature class
	Query Last Edits Made	1. Any non-anno or Topology T. feature class










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ANNOTATION TOOLS		Add Anno ▼
	Add Road Name anno	<ol style="list-style-type: none"> 1. Edit Session 2. T.Road, T.Anno_RoadName layers 3. One or more selected Road segments <p>*Pulled from Road20 fields. May not place at correct angle for winding roads</p>
	Add anno for existing Address point	<ol style="list-style-type: none"> 1. Edit Session 2. T.AddressPoint, t.Anno_Address layers 3. 1 or More selected Address Points
	Add APN anno to Parcel	<ol style="list-style-type: none"> 1. Edit Session 2. T.Parcel, T.Anno_APN layers 3. 1 or more selected Parcels
	Add feature linked Lot Num anno to Lots	<ol style="list-style-type: none"> 1. Edit Session 2. T.Lot layer <u>selected</u> in TOC 3. T.Anno_LotNum layer 4. 1 or More selected Lots <p>*this will pop up ESRI's feature linked anno menu</p>
	Add Map Num anno	<ol style="list-style-type: none"> 1. Edit Session 2. T.Parcel layer
	Add Block Num anno	<ol style="list-style-type: none"> 1. Edit Session 2. T.Parcel layer
	Add Sub Name anno	<ol style="list-style-type: none"> 1. Edit Session 2. T.Parcel layer
	Add Tent Map anno	<ol style="list-style-type: none"> 1. Edit Session 2. T.Parcel layer


OVERLAY FEATURE UPDATE TOOLS		Overlays ▼
	Update Road attributes from underlying features	<ol style="list-style-type: none"> 1. Edit Session 2. T.Road layer 3. One or more selected road segments
	Update Address Point attributes from Underlying features	<ol style="list-style-type: none"> 1. Edit Session 2. T.AddressPoint layer 3. 1 or More selected Address Points
	Update Parcel attributes from underlying features	<ol style="list-style-type: none"> 1. Edit Session 2. T.Parcel layer 3. 1 or more selected Parcels
	Update Intersection Types from underlying features	<ol style="list-style-type: none"> 1. Edit Session 2. T.Intersection layer 3. 1 or more selected Intersections 4. Admin Login until process is agreed upon

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

MAIN TOOLBAR: ROADS

	Paste Records with Road Attributes to the Road Layer	<ol style="list-style-type: none"> 1. Edit Session 2. Line 'scratch' layer with road fields (even if empty) 3. Line selected in scratch layer 4. Scratch layer <u>selected</u> in TOC 5. Target layer with road fields (usually T.Road) *Gives original and new line roadid of -9999
	Add Alias to Road Segment	<ol style="list-style-type: none"> 1. Edit Session 2. T.Road Layer 3. One Road Segment selected
	Split Road and re-assign addresses	<ol style="list-style-type: none"> 1. Edit Session 2. T.Road layer <u>selected</u> in TOC 3. T.Road snapping turned on
	Merge Road Segments	<ol style="list-style-type: none"> 4. Edit Session 5. T.Road selected features ONLY 6. T.Road more than one selected
	Transfer attributes and addresses from one road segment to another (then delete original segment)	<ol style="list-style-type: none"> 1. Edit Session 2. T.Road layer <u>selected</u> in TOC 3. 1 selected Road segment 4. Snapping set for t.road layer *RoadID is not transferred
	Zoom to Road using RoadSegID	<ol style="list-style-type: none"> 1. T.Road layer 2. Known RoadSegID
	Flash Connected Roads to Road	<ol style="list-style-type: none"> 1. T.Road layer 2. 1 selected Road segment
	Flash Connected Roads to Intersection	<ol style="list-style-type: none"> 1. T.Road layer 2. T.Intersection layer 3. 1 selected Intersection point
	Check for Overlapping Block Ranges on Road	<ol style="list-style-type: none"> 1. Edit Session 2. T.Road layer <u>selected</u> in TOC 3. 1 selected road segment, or a known RoadID

MAIN TOOLBAR: ADDRESSES



	Add address point (and anno)	<ol style="list-style-type: none"> 1. Edit Session 2. T.Road layer <u>selected</u> in TOC 3. T.AddressPoint, t.Anno_Address layers 4. 1 selected Road segment (to tie address to)
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MAIN TOOLBAR: PARCELS


	Zoom to Parcel by APN	<ol style="list-style-type: none"> 1. T.Parcel layer 2. Known APN
	Increment Parcel APN (or Lot Block Number)	<ol style="list-style-type: none"> 1. Edit Session 2. T.Parcel layer, T.APN_ATR table 3. Parcels of Subtype 6 (Pending)

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MAIN TOOLBAR: LOTS

	Increment Lot Number (or Parcel APN)	1. Edit Session 2. T.Lot layer
	Assign new LotID	1. Edit Session 2. T.Lot layer *Each time a lot is clicked on, the LOTID gets Next ID









MAIN TOOLBAR: Zipper

	Zip multiple polygon layers to edge	1. Edit Session 2. T. Polygon Layers 3. Edge/Polyline to snap to
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MAIN TOOLBAR: QC/SUBMIT WORK

	Run QC check <u>without</u> Submitting	1. NO Edit Session 2. Version for checking data loaded in TOC
	Submit version to supervisor for QC check	3. NO Edit Session 4. Version for logging loaded in TOC

QC CHECKS

Run Data Checks			
	Data Check	Status	Errors
	Bad Road IDs	Pending	N/A
	Duplicate Road SegIDs	Pending	N/A
	Road FireDriv Null Values	Pending	N/A
	Pending Parcels	Pending	N/A
	Lot LotID Null Values	Pending	N/A
	APN ATR Null and Zero Lengths	Pending	N/A
	Address Null AdrAPNIDs	Pending	N/A
	Intersection Invalid Types	Pending	N/A
		BEGIN	

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CLASS EXTENTION AUTOMATED PROCESSES

TYPE	FC TARGET FIELD	OVERLAY or RELATED FC	SOURCE FIELD	DESCRIPTION
ROADS				
Overlay	LPSJUR	Law_Beats	CODE	Updates the field with the overlay FC located
Overlay	RPSJUR	Law_Beats	CODE	Updates the field with the overlay FC located offset 7 foot to the right at the midpoint of the road
Overlay	L_BEAT	Law_Beats	Beat	Updates the field with the overlay FC located offset 7 foot to the left at the midpoint of the road
Overlay	R_BEAT	Law_Beats	Beat	Updates the field with the overlay FC located offset 7 foot to the right at the midpoint of the road
Overlay	LJURISDIC	Municipal	CODE	Updates the field with the overlay FC located offset 7 foot to the left at the midpoint of the road
Overlay	RJURISDIC	Municipal	CODE	Updates the field with the overlay FC located offset 7 foot to the right at the midpoint of the road
Overlay	L_MGRA	MGRF	MGRA	Updates the field with the overlay FC located offset 7 foot to the left at the midpoint of the road
Overlay	R_MGRA	MGRF	MGRA	Updates the field with the overlay FC located offset 7 foot to the right at the midpoint of the road
Overlay	L_TRACT	MGRF	TRACT	Updates the field with the overlay FC located offset 7 foot to the left at the midpoint of the road
Overlay	R_TRACT	MGRF	TRACT	Updates the field with the overlay FC located offset 7 foot to the right at the midpoint of the road

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Overlay	L_BLOCK	MGRF	BLOCK	Updates the field with the overlay FC located offset 7 foot to the left at the midpoint of the road
Overlay	R_BLOCK	MGRF	BLOCK	Updates the field with the overlay FC located offset 7 foot to the right at the midpoint of the road
Overlay	TBMPAGE	Thomas_Brothers	TBMPAGE	Updates the field with the overlay FC located offset 7 foot to the right at the midpoint of the road
Overlay	TBMQUAD	Thomas_Brothers	TBMQUAD	Updates the field with the overlay FC located offset 7 foot to the right at the midpoint of the road
Overlay	TBMGRID	Thomas_Brothers	TBMGRID	Updates the field with the overlay FC located offset 7 foot to the right at the midpoint of the road
Overlay	L_ZIP	Zipcode	Zip	Updates the field with the overlay FC located offset 7 foot to the left at the midpoint of the road
Overlay	R_ZIP	Zipcode	Zip	Updates the field with the overlay FC located offset 7 foot to the right at the midpoint of the road
Field Update	NAD83E	N/A	N/A	Updates the field with the starting point X location
Field Update	NAD83N	N/A	N/A	Updates the field with the starting point Y location
Field Update	LENGTH	N/A	N/A	Updates the field with the geometric length of the line
Field Update	FRXCOORD	N/A	N/A	Updates the field with the starting point X location
Field Update	FRYCOORD	N/A	N/A	Updates the field with the starting point Y location
Field Update	TOXCOORD	N/A	N/A	Updates the field with the end point X location
Field Update	TOYCOORD	N/A	N/A	Updates the field with the end point Y location

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Field Update	MIDXCOORD	N/A	N/A	Updates the field with the midpoint X location
Field Update	MIDYCOORD	N/A	N/A	Updates the field with the midpoint Y location
Field Update	POSTDATE	N/A	N/A	Updates the field with the current date
Field Update	POSTID	N/A	N/A	Updates the field with the current windows user
Field Update	AddSEGDT	N/A	N/A	Only on create, updates the field with the current date
Field Update	ROADSEGID	N/A	N/A	Only on create, a new roadsegid based on a sequencer populates the field
Geometry	N/A	Intersection	N/A	Checks that the start and end points of the road are covered by an intersection point
Geometry	N/A	Intersection	N/A	On delete, checks if any intersections are orphaned
Geometry	N/A	AddressPoint	N/A	On delete, checks if the road has addresses attached
Form	N/A	N/A	N/A	When editing a segment an Input form pops up to manage attribute entry.
Table Log	N/A	AddressPoint	N/A	Updates log_block_range table with overlapping or out of range address issues
ROADNAME				
Field	POST_OPERATOR_ID			Updates the field with the current windows user
Field	POST_DATE			Updates the field with the current date
Field	ROAD_ID			Only on create, a new id based on a sequencer populates the field
PARCEL				
Field	POSTID			Updates the field with the current windows user

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Field	POSTDATE			Updates the field with the current date
Field	PARCELID			Only on create, a new id based on a sequencer populates the field
Field	MULTI	Apn_atr	N/A	Updates field to Y if multiple apns are found
Field	X_COORD	N/A	N/A	Populates the field with the label centroid X location
Field	Y_COORD	N/A	N/A	Populates the field with the label centroid Y location
Field	OVERLAY_JURIS	Municipal	CODE	Updates the field with the overlay attribute
Related Table	SUB_TYPE	N/A	N/A	If sub_type <> 1 then removes all the records from the apn_atr table
LOT				
Field	POSTID			Updates the field with the current windows user
Field	ADDID			Only on create, Updates the field with the current windows user
Field	POSTDATE			Updates the field with the current date
Field	ADDDATE			Only on Create, Updates the field with the current date
Field	LOTID			Only on create, a new id based on a sequencer populates the field
Field	SUBTYPE	N/A	N/A	Updates the subtype to 1 if a subdivide was added
Field	SUBDIVID	Subdiv_atr	subdivid	Checks the validity of the subdivide entered
SUBDIV_ATR				
Field	POSTID			Updates the field with the current windows user
Field	POSTDATE			Updates the field with the current date
Field	SUBDIVID			Only on create, a new id based on a sequencer populates the field
SUBDIV				

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Field	SUBDIVID	Subdiv_atr	SUBDIVID	Checks the validity of the SUBDIVID
Form	N/A	N/A	N/A	Pops up a form on create to assist in attribute entry
LAW_BEAT				
Field	POSTID			Updates the field with the current windows user
Field	POSTDATE			Updates the field with the current date
Field	ESZ	N/A	Agency/Beat	Updates field based on Agency and Beat information.
Field	CODE	T.MUNICIPAL	CODE	Updates field based on Municipal Code field
Field	CODE_DESC	LawBeat_Codes Domain	Code/Description	Updates field based on Code field value in the LawBeat_Codes domain in the database
Field	AGENCY_DESC	LawBeat_Agency Domain	Code/Description	Updates field based on Agency field value in the LawBeat_Agency domain in the database
INTERSECTION				
Field	POSTID			Updates the field with the current windows user
Field	POSTDATE			Updates the field with the current date
Field	INTERID			Only on create, a new id based on a sequencer populates the field
Field	DPWINTNO	N/A	N/A	On delete, checks if DPWINTNO is empty, if not it stops the delete
Field	X_COORD	N/A	N/A	Populates the field with the X location
Field	Y_COORD	N/A	N/A	Populates the field with the Y location
Field	TYPE	Road, Municipal, Fire_Demand_Zone, Census Tract	Multiple	Tries to determine the Intersection Type
FORM	N/A	N/A	N/A	Pops up a form to assist in attribute entry
APN_ATR				
Field	POSTID			Updates the field with the current windows user
Field	POSTDATE			Updates the field with the current date

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Field	APNID			Only on create, a new id based on a sequencer populates the field
Field	APN	N/A	N/A	Checks that the APN doesn't already exist and is 10 numbers
ADDRESSPOINT				
Field	POSTID			Updates the field with the current windows user
Field	POSTDATE			Updates the field with the current date
Field	ADDRID			Only on create, a new id based on a sequencer populates the field
Field	X_COORD	N/A	N/A	Populates the field with the X location
Field	Y_COORD	N/A	N/A	Populates the field with the Y location
Field	JURISDIC	Municipal	CODE	Updates the field with the overlay attribute
Field	LOTID	Lot	LOTID	Updates the field with the overlay attribute
Field	PARCELID	Parcel	PARCELID	Updates the field with the overlay attribute
Field	SUB_TYPE	Parcel	SUB_TYPE	If the parcel is not an APN parcel, set the address to Orphaned
Field	APNID	APN_ATR	APNID	Get the apnid using the parcelid, if multiple found, pop up pick list
Field	RoadSegID	Road	RoadSegID	Based on selected road in map, get the segid and populate field.
Table Log	N/A	Road	RoadSegID, ROADID	Updates log_block_range table with overlapping or out of range address issues
EASEMENT				
Field	POSTID			Updates the field with the current windows user
Field	POSTDATE			Updates the field with the current date
Field	EASEID			Only on create, a new id based on a sequencer populates the field
Field	SUBDIVID	SUBDIV_ATR	SUBDIVID	Check that the subdivid is valid
Field	JURISDIC	Municipal	CODE	Updates the field with the overlay attribute

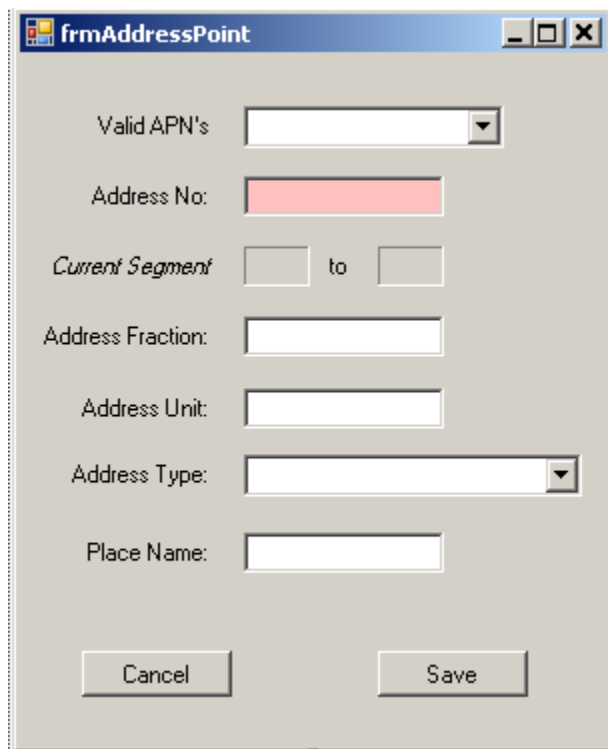
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Form	N/A	N/A	N/A	Pop up form for attribute entry
FLOODCONTROL EASEMENT				
Field	POSTID			Updates the field with the current windows user
Field	CREATEID			Only on create, Updates the field with the current windows user
Field	POSTDATE			Updates the field with the current date
Field	CREATEDATE			Only on Create, Updates the field with the current date
Field	EASEFLOOD CONTROLID			Only on create, a new id based on a sequencer populates the field
FLOODCONTROL EASEMENT DOCUMENT				
Field	POSTID			Updates the field with the current windows user
Field	CREATEID			Only on create, Updates the field with the current windows user
Field	POSTDATE			Updates the field with the current date
Field	CREATEDATE			Only on Create, Updates the field with the current date
Field	EASEFLOOD CONTROL DOCID			Only on create, a new id based on a sequencer populates the field
Field	DOCIMAGEID	N/A	Dcoument_Year, Document _Number	Updates the field based on the Doc Year and Number

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CLASS-EXTENSION ATTRIBUTE INPUT FORMS

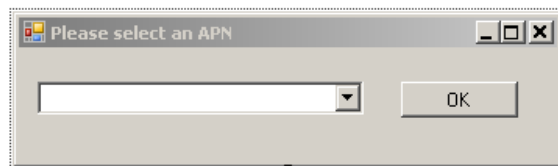
Address Point



The **frmAddressPoint** dialog box contains the following fields and controls:

- Valid APN's:** A dropdown menu.
- Address No:** A text field with a red background.
- Current Segment:** Two text fields separated by the word "to".
- Address Fraction:** A text field.
- Address Unit:** A text field.
- Address Type:** A dropdown menu.
- Place Name:** A text field.
- Buttons:** "Cancel" and "Save" buttons at the bottom.

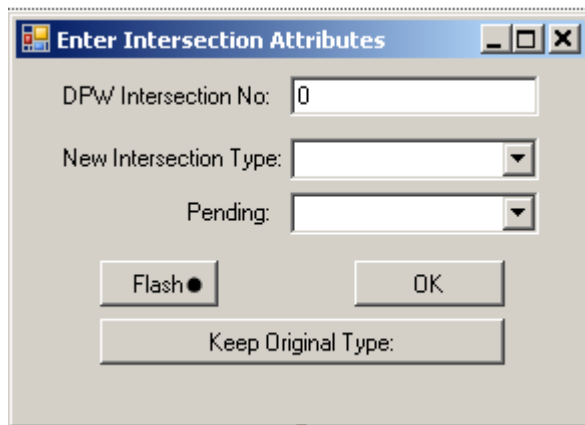
Address Point Multiple APNs found



The **Please select an APN** dialog box contains the following controls:

- A dropdown menu for selecting an APN.
- An "OK" button.

Intersection



The **Enter Intersection Attributes** dialog box contains the following fields and controls:

- DPW Intersection No:** A text field containing the value "0".
- New Intersection Type:** A dropdown menu.
- Pending:** A dropdown menu.
- Flash:** A button with a radio button next to it.
- OK:** A button.
- Keep Original Type:** A button.

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Flood Control Easement

The screenshot shows a Windows-style dialog box titled "frmEaseFloodControl". It contains three dropdown menus: "Easement Type:", "Status:", and "Subdivision No:". To the right of the "Easement Type:" dropdown is a button labeled "Use Last Info". To the right of the "Subdivision No:" dropdown is a button labeled "SubDivID". At the bottom of the dialog are two buttons: "Cancel" on the left and "Save" on the right.

Easement

The screenshot shows a Windows-style dialog box titled "Easement Info". It contains five input fields: "Easement Type:" (a dropdown), "Document Year:" (a text box), "Document No:" (a text box), "Record Date:" (a text box), and "Subdivision No:" (a dropdown). To the right of the "Easement Type:" dropdown is a button labeled "Use Last Info". To the right of the "Document No:" text box is a button labeled "Save". To the right of the "Record Date:" text box is a button labeled "Cancel". To the right of the "Subdivision No:" dropdown is a button labeled "SubDivID".

Subdiv ID verification

The screenshot shows a Windows-style dialog box titled "Subdivision SUBDIVID". It contains one dropdown menu labeled "SubDivID". To the right of this dropdown is a button labeled "SubDivID's". At the bottom of the dialog are two buttons: "Cancel" on the left and "Save" on the right.

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Road

Road ID:	<input type="text"/>	Get IDs RoadName																								
<input type="text"/>																										
ROAD SEG ID: 99999																										
PostID:	<input type="text"/>	FNode: <input type="text"/>																								
PostDate:	<input type="text"/>	TNode: <input type="text"/>																								
AddSegDate:	<input type="text"/>	NAD83N: <input type="text"/>																								
Length:	<input type="text"/>	NAD83E: <input type="text"/>																								
SegStat:	<input type="text"/>	Choose From List To Set All Defaults <input type="text"/>																								
DedStat:	<input type="text"/>																									
SegClass:	<input type="text"/>																									
FunClass:	<input type="text"/>																									
Carto:	<input type="text"/>																									
Block Range Info																										
<table border="1"><thead><tr><th colspan="2">LEFT</th><th colspan="2">RIGHT</th></tr></thead><tbody><tr><td>Low Adr:</td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td></tr><tr><td>High Adr:</td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td></tr><tr><td>MixAddr:</td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td></tr><tr><td>AbLoAddr:</td><td><input type="text"/></td><td colspan="2">Show Addresses</td></tr><tr><td>AbHiAddr:</td><td><input type="text"/></td><td colspan="2"></td></tr></tbody></table>			LEFT		RIGHT		Low Adr:	<input type="text"/>	<input type="text"/>	<input type="text"/>	High Adr:	<input type="text"/>	<input type="text"/>	<input type="text"/>	MixAddr:	<input type="text"/>	<input type="text"/>	<input type="text"/>	AbLoAddr:	<input type="text"/>	Show Addresses		AbHiAddr:	<input type="text"/>		
LEFT		RIGHT																								
Low Adr:	<input type="text"/>	<input type="text"/>	<input type="text"/>																							
High Adr:	<input type="text"/>	<input type="text"/>	<input type="text"/>																							
MixAddr:	<input type="text"/>	<input type="text"/>	<input type="text"/>																							
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Road Geometry																										
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TB:	<input type="text"/>	<input type="text"/>	<input type="text"/>																							
SAVE ERRORS. NOT SAVED!																										

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Road Address Transfer (within the Road Form)

ADDRESSES

Ab Lw Addr

HIDE ADDRESS PANEL

Total Addr: 0

Ab Hi Addr

Num Selected: 0

Transfer Addresses

NEW RoadSEGID

Verify SegID, and Transfer Addresses

RoadSegID is not Valid
Not Transferred!