Clay County Road Centerline Schema

Element Group	Element Number	Element Name	Data Field Name	Type	Precision	Scale	Length	Domain Name	Default Value	Lookup Table	Description
Identification Elements	1.1	Road Segment Unique Identifier	ROADSEG_ID	Text			36				A Globally Unique Identifier (GUID) for the road segment. Road+OBJECTID@ClayCountyMN
	1.2	Route ID	ROUTE_ID	Text			18				A unique identifier for the road centerline based on MnDOT's route naming system.
Linear Reference Elements	2.1	Route System	ROUTE_SYS	Text			2	RouteSystem			Primary Route System designator based on MnDOT's routing system.
	2.2	Route Direction	ROUTE_DIR	Text			1	RouteDirection			MnDOT indicator of whether route mileage increases or decreases with direction.
	2.3	Local to State	LOC_STATE	Text			10	LocalToState			The relative direction of the road centerline as depicted in local data compared to its depiction in MnDOT data.
	2.4	Primary Status	PRIME_STAT	Text			10	PrimaryStatus			MnDOT's primary/secondary classification of the road centerline.
Geocoding Elements	3.1	Street Name Pre Modifier	ST_PRE_MOD	Text			15				A word or phrase that precedes and modifies the Street Name, but is separated from it by a Street Name Pre Type or a Street Name Pre Directional or both
	3.2	Street Name Pre Directional	ST_PRE_DIR	Text			9	StreetDirectional			A word preceding the Street Name that indicates the direction or position of the thoroughfare relative to an arbitrary starting point or line, or the sector where it is located.
	3.3	Street Name Pre Type	ST_PRE_TYP	Text			35	StreetPreType			A word or phrase that precedes the Street Name element and identifies a type of thoroughfare in a complete street name.
	3.4	Street Name Pre Separator	ST_PRE_SEP	Text			20	StreetPreSeparator			If a Complete Street Name includes a prepositional phrase between a Street Name Pre Type and a Street Name, the prepositional phrase is treated as a separator.
	3.5	Street Name	ST_NAME	Text			60				Street name that identifies the particular thoroughfare. (With ordinals: st, nd, rd, th.)
	3.6	Street Name Post Type	ST_POS_TYP	Text			15	StreetPostType			A word or phrase that follows the Street Name and identifies a type of thoroughfare.
	3.7	Street Name Post Directional	ST_POS_DIR	Text			9	StreetDirectional			A word following the Street Name that indicates the direction or position of the thoroughfare relative to an arbitrary starting point or line, or the sector where it is located.
	3.8	Street Name Post Modifier	ST_POS_MOD	Text			15				A word or phrase that follows and modifies the Street Name, but is separated from it by a Street Name Post Type or a Street Name Post Directional or both.
	3.9	Street Name Full	ST_CONCAT	Text			150				Official complete name of the road centerline which is the concatenation of all other street name fields (3.1 to 3.8) with appropriate spacing.
911 Elements	7.11	Legacy Street Name Pre Directional	LST_PREDIR	Text			2	NENAStreetDirectional			The street name pre directional abbreviated in uppercase. FIELD NOT USED in Clay County.
	7.12	Legacy Street Name	LST_NAME	Text			75				The street name in uppercase. (Without ordinals: th, st, rd, nd.)
	7.13	Legacy Street Name Type	LST_TYPE	Text			4				Street type abbreviated in uppercase.
	7.14	Legacy Street Name Post Directional	LST_POSDIR	Text			2	NENAStreetDirectional			Suffix direction abbreviated in uppercase.
Clay County Elements	11.1	Full Street Name Abbreviated	LST_CONCAT	Text			85				Abbreviated name of the road centerline which is the concatenation of legacy name fields LST_NAME + LST_TYPE + LST_POSDIR with appropriate spacing.
Geocoding Elements	3.10	Alternate Street Name 1	ST_NAME_A1	Text			150				The primary alternate or alias name for the road centerline.
	3.11	Alt 1 Legitimate MSAG Value	A1_MSAG_V	Text			7	AltValidMSAG			The side(s) of the road centerline on which the Alternate Street Name 1 is a valid entry in the relevant Master Street Address Guide (MSAG).
	3.12	Alternate Street Name 2	ST_NAME_A2	Text			150				The secondary alternate or alias name for the road centerline.
	3.13	Alt 2 Legitimate MSAG Value	A2_MSAG_V	Text			7	AltValidMSAG			The side(s) of the road centerline on which the Alternate Street Name 2 is a valid entry in the relevant Master Street Address Guide (MSAG).
	3.14	Alternate Street Name 3	ST_NAME_A3	Text			150				The tertiary alternate or alias name for the road centerline.
	3.15	Alt 3 Legitimate MSAG Value	A3_MSAG_V	Text			7	AltValidMSAG			The side(s) of the road centerline on which the Alternate Street Name 3 is a valid entry in the relevant Master Street Address Guide (MSAG).
Clay County Elements	11.2	Lowest Address Number	ADD_LOW	Long Integer	10						The first address number in the range of address numbers on the road centerline segment. Used in the MSAG.
	11.3	Highest Address Number	ADD_HIGH	Long Integer	10						The last address number in the range of address numbers on the road centerline segment. Used in the MSAG.

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Element Group	Element Number	Element Name	Data Field Name	Type	Precision	Scale	Length	Domain Name	Default Value	Lookup Table	Description
Geocoding Side Feature	4.1	Left From Address	ADD_FR_L	Long Integer	10						The first address number in the range of address numbers on the left side of the road centerline.
Elements	4.2	Left To Address	ADD_TO_L	Long Integer	10						The last address number in the range of address numbers on the left side of the road centerline.
	4.3	Right From Address	ADD_FR_R	Long Integer	10						The first address number in the range of address numbers on the right side of the road centerline.
	4.4	Right To Address	ADD_TO_R	Long Integer	10						The last address number in the range of address numbers on the right side of the road centerline.
	4.5	Left Parity	PARITY_L	Text			4	Parity			The even or odd property for address numbers on the left side of the road centerline
	4.6	Right Parity	PARITY_R	Text			4	Parity			The even or odd property for address numbers on the right side of the road centerline
	4.7	Left Zip Code	ZIP_L	Text			5				The ZIP code for addresses on the left side of the road centerline.
	4.8	Right Zip Code	ZIP_R	Text			5				The ZIP code for addresses on the right side of the road centerline.
	4.9	Left CTU Name	CTU_NAME_L	Text			100	CTUName		LUT_CTU_County	The name of the city, township or unorganized territory (CTU) in which addresses on the left side of the road centerline are physically located.
	4.10	Right CTU Name	CTU_NAME_R	Text			100	CTUName		LUT_CTU_County	The name of the city, township or unorganized territory (CTU) in which addresses on the right side of the road centerline are physically located.
	4.11	Left CTU Code	CTU_ID_L	Text			8	CTUIDText		LUT_CTU_County	township or unorganized territory (CTU) in which addresses on the left side of the road centerline are physically located.
	4.12	Right CTU Code	CTU_ID_R	Text			8	CTUIDText		LUT_CTU_County	township or unorganized territory (CTU) in which addresses on the right side of the road centerline are physically located.
	4.13	Left Postal Community Name	POSTCOMM_L	Text			40			LUT_USPSPreferredCity	City name recognized by the USPS as valid for the ZIP Code of the addresses on the left side of the road centerline.
	4.14	Right Postal Community Name	POSTCOMM_R	Text			40			LUT_USPSPreferredCity	City name recognized by the USPS as valid for the ZIP Code of the addresses on the right side of the road centerline.
	4.15	Left County Code	CO_CODE_L	Text			5	CountyCode	27027	LUT_County	The combination of the two-character state numeric code and the three-character county code in which the addresses on the left side of the road centerline are physically located.
	4.16	Right County Code	CO_CODE_R	Text			5	CountyCode	27027	LUT_County	The combination of the two-character state numeric code and the three-character county code in which the addresses on the right side of the road centerline are physically located.
	4.17	Left County Name	CO_NAME_L	Text			40	CountyName	Clay	LUT_County	The county in which the addresses on the left side of the road centerline are physically located.
	4.18	Right County Name	CO_NAME_R	Text			40	CountyName	Clay	LUT_County	The county in which the addresses on the right side of the road centerline are physically located.
	4.19	Left State Code	STATE_L	Text			2	StateCode	MN	LUT_State	The two-character code of the state in which the addresses on the left side of the road centerline are physically located.
	4.20	Right State Code	STATE_R	Text			2	StateCode	MN	LUT_State	The two-character code of the state in which the addresses on the right side of the road centerline are physically located.
Routing Elements	5.1	Elevation From	ELEV_FROM	Short Integer	5			ElevationToFrom	0		The vertical position, relative to grade (ground level), of the starting (FROM) node of the road centerline.
	5.2	Elevation To	ELEV_TO	Short Integer	5			ElevationToFrom	0		The vertical position, relative to grade (ground level), of the ending (TO) node of the road centerline.
	5.3	One Way	ONEWAY	Text			1	OneWay	B		The direction of traffic movement in relation to the FROM and TO nodes (i.e. direction of digitization) of the road centerline.
	5.4	Impedance Speed	SPEED_IMP	Short Integer	5						A speed limit parameter in miles per hour that may be used in transportation modeling to force a specific result.
	5.5	Emergency Access	EMERG_ACC	Text			10	YesNoUnknown	Yes		Whether the road centerline would be used in a routing model for emergency vehicles.
	5.6	Routing Speed	ROUTESPEED	Short Integer	5						The posted or estimated speed limit in miles per hour (MPH) for the road segment for purposes of routing.
Cartography Elements	6.1	Route Number	ROUTE_NUM	Text			5				The primary Route Number designator (with optional letters) for the road centerline based on MnDOT's routing system. Used mainly for map labelling.
	6.2	Road Cartographic Class	CARTOCLASS	Text			15	RoadCartoClass			The road classification for cartographic symbology purposes.

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Element Group	Element Number	Element Name	Data Field Name	Type	Precision	Scale	Length	Domain Name	Default Value	Lookup Table	Description
911 Elements	7.1	911 GIS Point-of-Contact	GIS911POC	Text			75	GIS911POC	Clay		The entity responsible for submitting Geographic Information System (GIS) data to the State of Minnesota to be used for NG9-1-1 service for a specified area.
	7.2	Left Emergency Service Number	ESN_L	Text			5	ESN			A 3 to 5-character numeric code that identifies a single Emergency Service Zone (ESZ) for addresses on the left side of the road centerline.
	7.3	Right Emergency Service Number	ESN_R	Text			5	ESN			A 3 to 5-character numeric code that identifies a single Emergency Service Zone (ESZ) for addresses on the right side of the road centerline.
	7.4	Left PSAP Code	PSAP_L	Text			5	PSAPCode	RRRDC		The 4 to 5-character Public Safety Answering Point (PSAP) identifier code from the ELT/ALI display for the addresses on the left side of the road centerline.
	7.5	Right PSAP Code	PSAP_R	Text			5	PSAPCode	RRRDC		The 4 to 5-character Public Safety Answering Point (PSAP) identifier code from the ELT/ALI display for the addresses on the right side of the road centerline.
	7.6	Left MSAG Community Name	MSAG_C_L	Text			30	MSAGCommunity			The Community name associated with the addresses on the left side of the road centerline as given in the Master Street Address Guide (MSAG) used for 9-1-1 purposes.
	7.7	Right MSAG Community Name	MSAG_C_R	Text			30	MSAGCommunity			The Community name associated with the addresses on the right side of the road centerline as given in the Master Street Address Guide (MSAG) used for 9-1-1 purposes.
	7.8	Left Validation	VALID_L	Text			10	YesNoUnknown	Yes		RCL segment is valid for civic address validation, inclusion in a NG911 Location Validation Function (LVF), and/or inclusion in a geospatially created MSAG.
	7.9	RightValidation	VALID_R	Text			10	YesNoUnknown	Yes		RCL segment is valid for civic address validation, inclusion in a NG911 Location Validation Function (LVF), and/or inclusion in a geospatially created MSAG.
	7.10	911 Validation Error	VERROR_911	Text			10	YesNoUnknown	No		This attribute is used as a flag to indicate a known 911 validation error that has yet to be resolved.
Data Maintenance Elements	8.1	Lifecycle Status	STATUS	Text			20	LifecycleStatusRoad	Active		The lifecycle status of the road.
	8.2	Effective Date	EFF_DATE	Date			Default				The earliest date on which the road segment is known to exist.
	8.3	Retired Date	RET_DATE	Date			Default				The date on which the road segment was retired from active status.
	8.4	Editing Organization	EDIT_ORG	Text			40				The organization that made the last substantial change to the data record including geospatial edits. Clay County GIS or City of Moorhead GIS.
	8.5	Edit Date	EDIT_DATE	Date			Default				The date of the last substantial change to the data record including geospatial edits.
City of Moorhead Elements	10.1	Functional Classification	FUNCTIONAL_CLASS	Text			30				Functional classification of roads.
	10.2	Functional Class - Moorhead	FUNCLS_MHD	Text			1	FunctionalClassMoorhead			City of Moorhead maintained functional classification for roads within the City of Moorhead.
Business Elements	9.1	Functional Class - Federal	FUNCLS_FED	Text			1	FunctionalClassFederal			Federal functional classification defined by the United States Federal Highway Administration.
	9.2	Functional Class - Metro	FUNCLS_MET	Text			3	FunctionalClassMetro			Metropolitan Council maintained functional classification for roads within the Twin Cities Metropolitan Planning Organization (MPO) Area.
	9.3	Surface Type	SURF_TYPE	Text			32	SurfaceType			Type of road surface.
	9.4	Number of Lanes	NUM_LANES	Short Integer	5						Number of through lanes along segment.
	9.5	Comments	COMMENTS	Text			254				A free form field for miscellaneous information that does not fit or is not appropriate in the other attribute fields.
MN-NG911 Elements	1.38	Left Country	COUNTRY_L	Text			2		US		MN NG-911 mandatory field from NENA standard.
	1.39	Right Country	COUNTRY_R	Text			2		US		MN NG-911 mandatory field from NENA standard.
City of Moorhead Elements	10.3	Snow Route	SNOW_ROUTE	Text			30	SnowRoute			Is the roadway a snow emergency route.
	10.4	Garbage Route Day	GARBAGE_ROUTE	Text			20	DayOfWeek			City of Moorhead Garbage Route
	10.5	Recycling Schedule	RECYCLING_SCHEDULE	Text			20	RecycleSchedule			City of Moorhead Recycling Schedule
	10.6	Parking Restriction	PARKING_RESTRICT	Text			36	ParkingRestriction			City of Moorhead parking restrictions.

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Element Group	Element Number	Element Name	Data Field Name	Type	Precision	Scale	Length	Domain Name	Default Value	Lookup Table	Description
	10.7	State Aid Route	STATE_AID_ROUTE	Text			50				State Aid Funding
	10.8	State Aid Route Number	STATE_AID_NUMBER	Short Integer	5						State Aid Route Number
	10.9	TO FROM Minutes	TF_MINUTES	Double	38	8					Minutes required to traverse line segment in TO FROM direction
	10.10	FROM TO Minutes	FT_MINUTES	Double	38	8					Minutes required to traverse line segment in FROM TO direction
	10.11	Alias ID	ALIAS_ID	Long Integer			10				Alias Lookup ID
	10.12	Ownership	Ownership	Text			20	Ownership			Roadway Ownenship Type
	10.13	Label Class	LABEL_CLASS	Text			50				Used for symbolization
	10.14	Region	REGION	Short Integer	5						Region of Clay County. A numeric value form 0 to 9
Clay County Elements	11.4	Load Restriction	LOAD_RESTRICTION	Text			18				Roadway weight limit listed in tons.
	11.5	Recorded Maintenance Level	RECORDED_M	Text			30	RecordedMaint			From recorded township road map.
	11.6	Owner Left	OWNER_L	Text			30	MaintJurisdiction			Represents ownership of each side of the road. Recorded Township maps are one source used.
	11.7	Owner Right	OWNER_R	Text			30	MaintJurisdiction			Represents ownership of each side of the road. Recorded Township maps are one source used.
	11.8	Highway Control Section	HWY_CONTROL_SECTION	Text			18				Used to tie Pavement Management data to road segments.
	11.9	Highway Segment	HWY_SEGMENT	Text			18				Used to tie Pavement Management data to road segments.
	11.10	ICON ID	ICONID	Double	38	8					Used to tie ICON Pavement Management data to road segments.
	11.11	Maintenance Funding	MAINT_FUNDING	Text			30				Indicates the primary funding source type for the road.
	11.12	Maintenance Owner	MAINT_OWNER	Text			30	MaintJurisdiction			Which jurisdiction reponsible for the road's maintenance.
	11.13	Maintained By	MAINT_BY	Text			30				Which organization conducts roadways maintenance
	11.14	Maintenance District	MAINT_DIST	Text			18				Highway Department District that maintains the road.
	11.15	Maintenance District Alternate	MAINT_DIST_ALT	Text			18				Alternate Highway Department that could maintain the road.
	11.16	Maintenance Type	MAINT_TYPE	Text			18				Type of maintenance roadway receives. Full, Hourly, None.
	11.17	Maintenance Winter	MAINT_WINTER	Text			18				Is the roadway maintainted in the winter? Yes or No.
	11.18	Maintenance in Rural Subdivision	MAINT_RURAL_SUB	Text			18				Indicates if the roadway is in a Rural Subdivision. Yes or No.
	11.19	Maintenance Mileage	MAINT_MILAGE	Double	38	8					Mileage of road segment for Contracted Maintenance with Township rounded to the quarter mile.

Domains are based from either the MN_GAC_Standard_Domains or the Clay_County_Domains.