COLORADO DEPARTMENT OF TRANSPORTATION	
PRELIMINARY SURVEY SCOPE	

Highway Number Maintenance Patrol # From Mile Post To Mile Post City or County Designation Section (s) Township (s) Range (s) Principal Meridian Nearest City / Town Design Unit Assigned Project Manager Survey Unit Assigned Charge Office Surveyor in Charge Roward Assigned Schedule Information Scheduled date Actual date Date survey is needed: Fire date: FOR date: Right-of-way Plan Review (ROWPR): Ad date: Roadway Design Requirements Completed by Roadway Manager Proposed project type: Length of survey Number of lanes Check all that apply: Right-of-way preliminary field ties and investigation Survey for overlay quantities- Surface utilities: Valve boxes, Manholes, Traffic Control Other: Include a sketch map / Previous plans of area and any special instructions as final page(s) of this request Deliverable Requirements For Design Completed by Roadway Manager and Surveyor in Charge Electronic products required: MicroStation drawings as required by the CDOT file structure and workflows showing the proper topography line syles & symbols and separate drawings for the symbols, notes, elevations, codes, & names. All Toundary strips should be defined. Den MicroStation drawing called SURVEY Surface Office. All toundary strips should be defined. Defined the project Right of Way Plans. Survey Control Diagram and Microstation. DoRn used to create the control diagram for the project Right of Way Plans. Copies of Permission to Enter Forms ELECTRONIC FIELD BOOKS IN LEGIBLE, STAMPED/SIGNED PDF BY THE PLS IN RESPONSIBLE CHARGE UAS or LIDAR collected dgn: add UAS or LIDAR dgn to file name to distinguish collection method from conventional or CPS One separate dgn of control, with accompanying, csv., vis.x, and ctill ses	INFORMATION	Project Number		Project Location	Pr	roject Code	
Design Unit Assigned			From Mile Post	To Mile Post	City or Co	unty Designation	
Assigned	Section (s)	Township (s)	Range (s)	Principal Meridian	Nearest C	Nearest City / Town	
Date survey is needed: FIR date: FOR date: Right-of-way Plan Review (ROWPR): Ad date:		Project Manager	_			·	
Date survey is needed: FIR date: FOR date: Right-of-way Plan Review (ROWPR): Ad date:	Schedule Inform	ation					
FIR date: FOR date: Right-of-way Plan Review (ROWPR): Ad date: Roadway Design Requirements			Scheduled date	Actua	ıl date		
FOR date: Right-of-way Plan Review (ROWPR): Ad date: Roadway Design Requirements	Date surve	y is needed:					
Roadway Design Requirements	FIR date:						
Roadway Design Requirements	FOR date:						
Roadway Design Requirements	Right-of-wa	ay Plan Review (ROW	/PR):				
Proposed project type:	Ad date:						
Proposed project type:	D. J. J. D. J.	D			0	. I l D l M	
Length of survey Number of lanes Check all that apply: Check all the that apply: Check all the that apply: Check all the that apply:		•			Complet	ed by Roadway Manager	
Number of lanes		type.		Width of our you			
Check all that apply: Control Survey TMOSS by: GPS UAS MOBILE LiDAR TERRESTRIAL LIDAR Right-of-way preliminary field ties and investigation Survey for overlay quantities- Surface utilities: Valve boxes, Manholes, Traffic Control Other: Include a sketch map / Previous plans of area and any special instructions as final page(s) of this request Deliverable Requirements For Design Completed by Roadway Manager and Surveyor in Charge Electronic products required: MicroStation drawings as required by the CDOT file structure and workflows showing the proper topography line styles & symbols and separate drawings for the symbols, notes, elevations, codes, & names. A DTM model from MicroStation, containing all three-dimensional spatial data in its edited form. One MicroStation drawing called SURVEYSurface01.dtm containing all three-dimensional spatial data in its edited form. All TMOSS shot notes shall be shown on this drawing. Triangle sides in the TIN should not exceed: All boundary strings should be defined. PDF OF THE Project Control and/or the Land Survey Control Diagram and Microstation.DGN used to create the control diagram for the project Right of Way Plans. MicroStation drawing called SURV_LSCD.dgn of the Land Survey Control Diagram, (or PCD for Project Control Diagram delivered at the FIR. A MicroStation drawing which includes contours on intervals of (Major:Minor) Copies of Permission to Enter Forms ELECTRONIC FIELD BOOKS IN LEGIBLE, STAMPED/SIGNED PDF BY THE PLS IN RESPONSIBLE CHARGE UAS or LiDAR collected dgn; add UAS or LiDAR dgn to file name to distinguish collection method from conventional or GPS All electronic DTM models in final edited format compatible with MicroStation . One separate dgn of control, with accompanying, .csv, .xlsx, and ctifiles				width of Survey			
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formats for photogrammetry, LIDAR or UAS	All electronic	All electronic DTM models in final edited format compatible with MicroStation. One separate dgn of control, with accompanying .csv, .xlsx, and ctl files					

Distribution: Region Program Engineer Region ROW Manager Hydraulics Engineer Traffic Engineer Traffic Engineer Materials Engineer Region ROW Manager Hydraulics Engineer Materials Engineer

NOTES:	
	Coadway Manager and Environmental Manager
Wetlands Applicable Check all that apply:	☐ Not
 ☐ Coordinate schedule with a wetland biologist to Survey wetland biologists ☐ Do not survey in wetland limits. Provide the final MicroS and wetland biologist. The wetland limits will be added to 	tation drawing file to the environmental manager
personnel. Perform TMOSS survey for wetland design/enhancemen location map)	- ,
Locate monitoring wells StormWater-Wastewater-Water Quality facilities: see U NOTE: Inform the environmental manger and wetland biologist t copy of the survey transmittal letter whenever the survey	hat the survey is complete by means of a courtesy
above. Hazardous Materials	☐ Not Applicable
Are there any known hazardous materials located in the propose CAUTION: Surveying around hazardous materials requires spec Environmental Manager if hazardous materials are suspected or	ial training and equipment. Contact the
Noise Study Locate buildings within 100, 200, 300, 400, fee (Coordinate the specifics needed with the Region Env	■ Not Applicable to f the proposed centerline
Structure Deguirements	□ Not Applicable
Structure Requirements Number of Structures crossed (attached as constructed plans) Number of major structures	Length from structure to be surveyed

Survey attached utilities
Point: Visible high-water mark
Point: Present water level (record Date and Time of Survey
☐ TMOSS special limits (describe):
☐ List additional structure features needed: ibed ☐ Other special instructions: ☐ Deck cross-section normal to a control line
otes Include type and height of inlets in TMOSS
notes TMOSS limits described in Survey Manual. TMOSS special limits (describe)
☐ Not Applicable
Signalization changes are SS Panel reflective qualityhigh or low Post size & type of breakaway d intersections: p locations installations Signalization changes are Camera Location changes are Camera Location changes are
way TMOSS sed:
way TMOSS
way TMOSS sed: Not Applicable

Include owner name, contact person, address, and telephone number. Always show whether or not utilities are on CDOT right of way. Check all that apply: A. Gas	Utility Requirements: Subsurface Utility Engine	ering LEVEL C ONLY Not Applicable
are on CDOT right of way. Check all that apply: A. Gas	Include owner name, contact person, address, and	☐ E. Water (domestic) includes wells
A. Gas	telephone number. Always show whether or not utilities	Owner:
A. Gas	are on CDOT right of way. Check all that apply:	Buried or supported
Owner: 1. Buried, overhead or crossing 2. Size and pressure 3. Location (horizontal and vertical) 4. Locate vents, valves, markers, etc. □ B. Transmission lines Owner: 1. Buried, overhead, crossing 2. Elevation of lines a. Depth b. Height at poles c. Height at low point of sag 3. Type of structures a. Lattice b. Single pole c."H" frame 4. Construction a. Steel b. Wood c. Other 5. Single points (poles, etc.) 6. Guy-anchor poles □ C. Electric lines (local) Owner: □ Buried, loose cables or in ducts; overhead, crossing 2. Elevation at poles, at sag points, depths depths 3. Type and construction of poles 4. □ Communications Owner(s): 1. Buried, loose cables or in ducts; overhead, crossing 2. Fiber optics or conventional wire cables 3. Location of pedestals, vaults, regeneration stations 4. Local services (drops, etc.) above, on, below surface 3. Angle and junction points 4. Locations of valves, meters, vents, drains, etc. □ F. Sanitary sewers Wenner: 1. Size and type of pipe 2. Manholes i. Inlet and outlet elevations ii. Top of manhole elevations ii. Top of manhole elevations ii. Top of manhole elevations ii. Help and overhead 2. Owner boles, attached to others 3. Cables loose, in ducts 3. Elevation of poles 4. Depth 5. Locate pedestals, etc. □ H. Pipelines ABOVE GROUND ONLY Owner: 1. Buried overhead 2. Owner boles, attached to others 3. Pressure 4. Sorm Water – Wastewater-Water Quality ponds □ I. Irrigation company □ I. Irrigation company □ I. Basic size of ditch □ I. Basic size of ditch □ I. Basic size of ditch □ I. Buried or aerial □ I. Buried or ae		
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below surface	regeneration stations	Get all details (explain):
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		L. Electronic Fieldbook
		 Separate Field Book for existing
		surface utility locations

Railroad Requirements	Not Applicable 🗌		
Railroad name / Operator	Person to contact at railroad		
Address of railroad right-of-way office	Phone number and, if known, e-mail address of contact		
Check all that apply: RAILROAD CROSSING ID NO: APPROXIMATE HIGHWAY STREET LOCATION Area affected by the proposed design railroad milepost to railroad milepost Show if railroad right of way is fenced Locate and tie railroad milepost (required for any railroad acquisition)			
 Show all lines and note sidings Note type and condition of rail bed surface and material at all crossings Survey profile grade on top of both rails at road crossings Survey as-situated Centerline Alignment Survey terrain data within railroad right of way Locate all railroad topography in TMOSS including switches, sensors, signs, signals, X-bucks, etc. NOTE: Permission to Enter from the Railroad company is required prior to strarting Survey 			
L			
Overlay Surveys	☐ Not Applicable		
Establish milepost references Survey for overlay quantities- Surface utilities: Valve boxes, Manholes, Traffic Control Gather topographic data by station and offset Gather topographic data by milepost and offset Included guardrail height samples Include overhead clearances on utilities and structures Include sign locations and heights to bottom of sign from ground Tabulate existing delineators Tabulate hazards within clear zone limit of Reference striping and no passing zones Tabulate existing striping for inclusion in the plans Establish centerline and take cross-sections. Cross-section interval: Locate and reference Government and aliquot corners that may be affected in the area the proposed design Tabulate aliquot corners and accessories for inclusion in the plans within distance from the edge of roadway. Tabulate all government survey monuments; i.e., bench marks horizontal control within Project limits			
O Paradia manta	On and the Drofons and Land Company		
Survey Requirements MONUMENTATION Applies blo	Completed by Professional Land Surveyor Not		
Applicable What monument type(s) and quantities will be set or reset? OROW Monuments OControl Monuments OAliquot Monuments O3-D Deep Rod Monuments	Have monument materials been provided by CDOT? (See CDOT Survey Manual for most current Specifications) Yes No Control Monuments shall be set such that they are intervisible with at least two other adjacent control monuments and shall have minimum conflict with construction activities.		

	□ Not Applicable
Horizontal control by: CDOT Consultant Horizontal control method:	Existing (explain:)
☐ Traverse with total station ☐ Triangulation with total station ☐ GPS fast-static where densification has been completed (NGS)	☐ GPS densification and bluebook ☐ Project control tied to National Geodetic Survey
High Accuracy	☐ National Spatial Reference System (NSRS)
High Accuracy Georeferenced to Colorado State Plane Zone Operating or	Reference Network (HARN) Continuing
,	Reference System (CORS)
Establish control monuments NOT to exceed 1000 feet or Specify monuments to begin and end horizontal control selection Horizontal control tolerances required: CDOT (
Documentation required in submittal (check only those no FINAL STAMPED ELECTRONIC FIELDBOOK Electronic File	S Traverse file from data collector as an
 Project Control Diagram file as an Electronic F GPS files as an Electronic File Copies of any new monument records from thi 	☐ Control File .CTL as an Electronic File s survey
An electronic field book must include a description of the mon which can be imported into Microstation and included in the P A note is required on all survey markers found and tied in TMC	roject Control diagrams.
An electronic field book with a sketch showing what was found	
electronic file.	Data Anni Parkita
Vertical Control	☐ Not Applicable
Vertical control method: Differential level closed loop through control monum Trigonometric level closed loop through control mon	ents
GPS differences from known bench marks Known bench marks in the vicinity with NAVD '88 elev's Mark Number: Elevation: m. E Mark Number: Elevation: m. E Mark Number: Elevation: m. E Establish a bench mark on each control monument A complete "Report on the Condition of Survey Mark is required on all found federal bench marks	: Elevation: feet (Note US survey or International) Elevation: feet (Note US survey or International) Elevation: feet (Note US survey or International). Elevation: feet (Note US survey or International).
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	TES: cuss TMOSS coding of UAS and LiDAR deliverables
ſ	Right-of-Way Requirements
	Is right-of-way involvement anticipated on this project? Are Forest Service and/or Bureau of Land Management clearances needed on this project? Yes No Approximate number of property owners (Attach assessors' maps, deeds, subdivision plats, right-of-way plans, preliminary plots, permission to enter forms.)
	☐ Professional Land Surveyor responsible for plans will research deeds and plats. Check all that apply:
	☐ Tie all the Public Land Survey System needed for CDOT R.O.W. acquisition purposes in Section(s)
	Township(s), Range(s), Principal Meridian Establish straddle ties as described in the most current CDOT Survey Manual on all section corners Establish references and complete a monument record form for all corners that are required by statute. Search for all owners' property pins adjacent to survey to aid in the establishment of property boundaries. Search for and tie all right-of-way markers found Include possession evidence and all improvements within feet (minimum = 5' per CRS) of the right-of-way line in the TMOSS survey
	 ☐ Include evidence of burial grounds and cemeteries in TMOSS ☐ Include evidence of easements like paths, utility markers, and risers, poles and valves, in the TMOSS survey ☐ Note street names and alleys in TMOSS survey ☐ Note street address numbers in TMOSS survey ☐ Establish "as constructed" centerline from right-of-way markers (Attach right-of-way plans) ☐ Make appropriate land ties to describe and purchase a wetland or construction parcel or easement
	An electronic field book must include a description of the monument's size, shape, material, color, and markings which can be imported into Microstation and included in the Project Control diagrams. An electronic field book with a sketch showing what was found shall be included and related to the point # in the electronic file

NOTES: DISCUSS CHAPTER 2 of the ROW MANUAL and Survey manual location at https://www.codot.gov/business/manuals		
Survey Manual currently being updated; Chapter 2 of the ROW Manual to be posted early 2021		