



DNLTC GIS On-Call: FY 2023 Final Report

15 August 2023

To	Tamera Leighton	Contact No.	1 707-267-2281
Copy to	Amber Shows	Email	zach.porteous@ghd.com
From	Zach Porteous	Project No.	12585091
Project Name	DNLTC GIS On-Call		
Subject	12585091 – DNLTC GIS On-Call Final Report FY 2023		

Dear Ms. Leighton,

1. Introduction

1.1 Purpose of this report

Contained herein is the final report of tasks completed in the first year of the Del Norte Local Transportation Commission's (DNLTC) GIS on-call contract with GHD. This report will describe tasks that were assigned to GHD and the outcomes and decisions that were associated with each task.

2. Tasks

2.1 Del Norte County

County Culvert database

GHD was given an excel spreadsheet that contained descriptions of the culverts maintained by the County that were collected some years ago and was asked to display these on a map. After plotting the locations as points, several adjustments were made to the overall alignment of the dataset based on field data that was collected by County employees. This dataset was finalized and added to the DNLTC ArcGIS Online organizational site.

County Maintained Mileage Re-segmentation

To form the County maintained roads dataset GHD was provided a pavement condition study that was conducted by County employees in 2017. Because the segmentation of the GIS lines was based on the physical attributes of the roadway and not the spreadsheet that the County had originally been supplying to Caltrans to report the County maintained mileage, discrepancies were identified. To remedy this, GHD re-segmented the County Maintained Roads dataset to match the Caltrans reported mileage exactly so that the lengths in the spreadsheet could be directly compared to the lengths stored in the GIS dataset.

County Assessment of MS4 requirements

GHD met with County employees to discuss the GIS mapping requirements that relate to MS4 reporting guidelines ahead of the potential addition of County controlled areas to the Phase II Municipal Separate Storm Sewer System Program that Crescent City is already permitted under. GHD evaluated what information would be beneficial to gather and what aspects of their storm sewer systems in the transportation right of way would need to be mapped.

2.2 Crescent City

Addition of Road Striping and Additional Attributes to Crescent City's GIS datasets

Employees at Crescent City had an interest in adding additional information about the bulbs in their streetlights and road striping into the GIS data that had been previously prepared. GHD began this task by acquiring high resolution imagery captured in 2015 from the City and performing spectral analysis on it to extract the road striping. Before the dataset that was finalized, this task was abandoned in favor of adding additional ADA attributes to the City's GIS.

ADA Assessment Scoping and Information Gathering

The City has recently updated their pavement management plans which often require sidewalk ADA improvements when street improvements are made. For this reason, GHD proposed a scope and budget for an ADA assessment of the City. This scope and budget was originally too expensive for this year's budget in the GIS on-call contract. However, this work has been flagged by both the City and the County as high priority given the importance of pedestrian accessibility.

3. ArcGIS Online (AGO) Subscription

DNLTC's AGO subscription was renewed this year with Esri to maintain the layers and functionality that are currently serving the DNLTC. A few changes were made to the licensing to reduce cost:

- 2 Mobile Worker Licenses were removed from the organization as they had gone unused for the year prior.
- 2 Viewer accounts were removed from the organization as they had also gone unused.

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GHD Inc.

718 Third Street

Eureka, CA 95501, United States

T +1 707 443 8326 | **F** +1 707 444 8330 | **E** info-northamerica@ghd.com | **ghd.com**

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