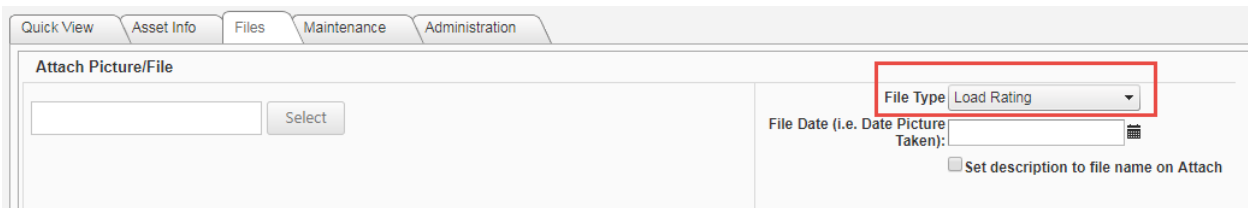


## Guidelines for LARS Input File Generation

Engineers in final design and consultants are required to create LARS data files for new bridges (includes bridge replacements). For bridge repair/rehabilitation projects, to save the efforts of design engineers, the rating section will take care of the input file updating if the project does not change the design of superstructure (e.g. PCC deck overlay and deck replacement or/and widening). If the modification of the superstructure is part of the bridge repair/rehabilitation, the design engineer should create a LARS file from scratch as for new bridge.

If the new or replaced bridge is a standard H40-06, H40-14, H44-07, H44-14, J30-06, J40-06, J44-06, J40-14, J44-14, RS40-04, RS40-10 and RS40-14 you don't need to create a LARS file. The policy change does not include nonstandard bridges built with the standards PPCB's; A, B, C, D, BTB, BTC, BTD and BTE.

- New structure and Superstructure replacement
  - Use the [LARSINPUT spreadsheet](#) to generate the input file
  - Save a copy of the LARSINPUT spread sheet in SIIMS under Load Rating File type and set the date to the upload date.



The screenshot shows the 'Attach Picture/File' section of the SIIMS interface. It includes a 'Select' button for file upload, a 'File Type' dropdown menu set to 'Load Rating', a 'File Date (i.e. Date Picture Taken):' field with a calendar icon, and a checkbox labeled 'Set description to file name on Attach'.

Other files to be uploaded into SIIMS in addition to the excel file for LARS are the final approved shop drawings, a pdf of the final plan set with any addendums and revisions if applicable.

If the bridge is a complex design and cannot be completed in LARS the load rating will need to be performed by the consultant as part of the design. LARS is limited to analysis of straight steel girders, prestressed concrete and concrete slab bridges. The consultant shall upload signed and sealed calculation into SIIMS; including a summary of the ratings for design, legal and permit loads.

## SIIMS Access and Use

Step one getting access

You will need to get an A&A account. To get an account go to the [SIIMS Home Page](#) and follow the steps or [Click here](#) and directly go to the A&A sign in page. Once there go to create an account as shown below and register.



Enterprise A&A

Sign In

Create An Account

Forgot Password

Forgot Id

# Structure Inventory and Inspection Management System

Sign up now to get credentials you can use for Enterprise A&A enabled sites.

First Name:

Register

Last Name:

Possibly have an account already?

Click here for a listing of all A&A enabled applications. If you created an account for any of these applications you don't need to create a new account.

What is A&A?

Help


Report Issue to State Service Desk

## Important!

- You must have a valid email address.
- Your A&A Account ID may not contain profanity or special characters.
- You will be required to complete some Security Baseline Questions and Answers.

## Step Two

In addition to the A&A account, you must be registered with SIIMS. To register for SIIMS access you will need to go back to the SIIMS home page and select the [Bridge information form](#). On the bridge information form shown below fill in the required fields and select Private for affiliation. Under Question/Comment: list the FHWA# for the bridges that you would like access. If you are working on a bridge replacement list the FHWA# for the existing bridges and the new bridges. After completing one of the following forms, you will receive a confirmation that your SIIMS account is active when access is available.



**Structure Inventory and Inspection Management System**

### Bridge Information Form

[Return to SIIMS home page](#)

**\* Required Information**

* First name	<input type="text"/>	* Organization/agency/company	<input type="text"/>
* Last name	<input type="text"/>	* Phone number (e.g. 555-123-4567)	<input type="text"/>
* Enterprise A&A user name (first.last@iowaid)	<input type="text"/>	Cell Phone number (e.g. 555-123-4567)	<input type="text"/>
* E-mail address	<input type="text"/>		

**Affiliation**

Federal Government    State Government    County Government    City Government    Private

**Questions/Comments :**

Click the "Submit" button **only once** when completed to prevent duplication.

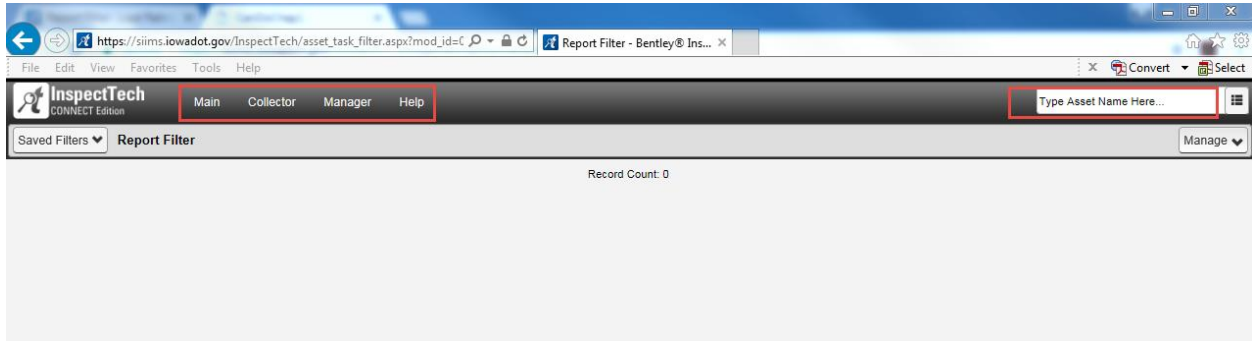


[Policies and Statements](#) | [Applets and Plug-ins](#)

Iowa Department of Transportation - 800 Lincoln Way - Ames, IA 50010

## Navigating SIIMS

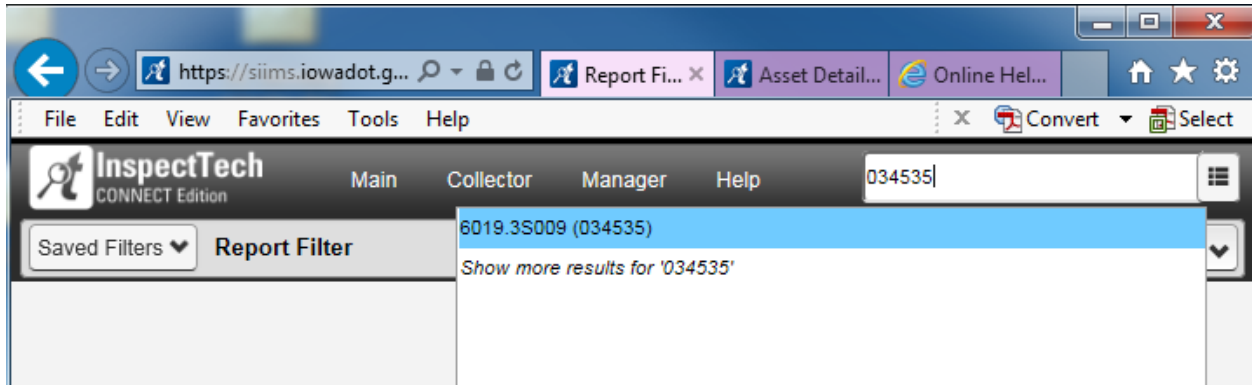
To access data in SIIMS click on the SIIMS access button on the home page and enter your Account ID and Password in the Enterprise A&A Sign in Screen. This will take you into your SIIMS home screen shown below. On the SIIMS home screen you will have several options labeled Main, Collector, Manager and Help. This document will not go in-depth in to all the capabilities of SIIMS but will only cover navigation to assets and uploading documents. If you need additional information on SIIMS functionality related to bridge inspection please contact the Bridge Management Engineer at 515-239-1648.



On the main tab, you can set “My Preferences” to the recommended settings as shown below. Using the settings below will enable the Quick View, Asset Info and Files tabs to display by default making it easier later to upload files.

	Preference	Value	Description
<a href="#">Edit</a>	Asset Detail - Show Admin	False	Setting this to
<a href="#">Edit</a>	Asset Detail - Show Asset	True	Setting this to
<a href="#">Edit</a>	Asset Detail - Show Files Tab	True	Setting this to
<a href="#">Edit</a>	Asset Detail - Show Report Sections	True	Setting this to
<a href="#">Edit</a>	Asset Detail - Show Scheduling Tab	False	Setting this to

The easiest way to find an asset is to use the Asset Tree and Quick bar search in the upper right corner and enter the FHWA number for the structure.



Once you have navigated to the asset in SIIMS you will see the Asset Details page for the bridge you entered. If you're "My Preferences" is set as described above you should see the asset with the Quick View, Asset Info and Files tabs. If you do not see all three tabs click on the "Show More Details" button in the top right corner.

On the Quick View tab, you will see general information about the structure as shown below.

**Quick View** | Asset Info | Files

**Parent Asset:** District 3  
**Bridge ID:** 6019.3S009  
**FHWA Number:** 034535  
**Asset Type:** Bridge  
**NBI 006 Features Crossed:** MOON CREEK  
**NBI 007 Facility Carried:** US 75 & IA 9  
**NBI 009 Location:** 0.5 mi. E of W jct. US 75  
**NBI 112 NBIS:** Y - Yes  
**NBI 022 owner:** 01 - State Highway Agency  
**Original Design Number:** Number: 1: 470  
**NBI 027 Year Built:** 1972  
**NBI 043 Main Structure Type:** 201  
**NBI 041 Open, Posted Or Closed:** A - Open  
**Recommended Posting:**  
**OFFICIAL SUFFICIENCY RATING:** 73.6  
**UNOFFICIAL SUFFICIENCY RATING:** 85.0  
**UNOFFICIAL FUNCTIONALLY OBSOLETE:** N  
**UNOFFICIAL STRUCTURALLY DEFICIENT:** N  
**Consulting Firm Name:** IADOT  
**Next Inspection Type:** Routine  
**Next Inspection Date:** 02/06/2019  
**NBI 104 Highway System:** 0 - Structure/Route is NOT on NHS  
**NBI 049 Structure Length:** 134  
**NBI 052 Br Rdwy Width O-O:** 71.4  
**Deck Area::** 9567.6

**Quick Links:**  
[View Program Recommendations Report](#)  
[Current State SIA Report](#)

**Open Reports**  
No Reports Found

The Asset Info tab contains the data from NBI inspections. A specific inspection and can be viewed by clicking on the wrench and selecting one of the options listed.

InspectTech CONNECT Edition Main Collector Manager Help Type Asset Name Here...

Asset Details: 6019.3S009 Show More Details View Asset Values Show on Map

Quick View Asset Info Files

**Completed Reports**

Last Revision	FHWA Number	Sub-Assets	NBI 90 Date	Inspection Type	NBI 007 Facility Carried	NBI 006 Features Crossed	NBI 009 Location	City	County	Approved Date	
3/31/2001	034535	none	4/1/2001 12:00:00 AM		US 75 & IA 9	MOON CREEK	0000000		060 - Lyon		
10/29/2015	034535	none	3/1/1999 12:00:00 AM		US 75 & IA 9	MOON CREEK	0000000		060 - Lyon		
8/22/2016	034535	none	2/9/2015 12:00:00 AM	Other	US 75 & IA 9	MOON CREEK	0.5 mi. E of W jct. US 75	ROCK RAPIDS	060 - Lyon	4/26/2016	
7/12/2016	034535	none	2/9/2015 12:00:00 AM	In-Depth	US 75 & IA 9	MOON CREEK	0.5 mi. E of W jct. US 75	ROCK RAPIDS	060 - Lyon	2/18/2015	
10/29/2015	034535	none	2/8/2011 12:00:00 AM	Routine	US 75 & IA 9	MOON CREEK	0.5 mi. E of W Jct. US 75	Rural	060 - Lyon	4/11/2011	
4/17/2018	034535	none	2/6/2017 12:00:00 AM	In-Depth	US 75 & IA 9	MOON CREEK	0.5 mi. E of W jct. US 75	ROCK RAPIDS	060 - Lyon	2/20/2017	
9/13/2016	034535	none	2/6/2013 12:00:00 AM	In-Depth	US 75 & IA 9	MOON CREEK	0.5 mi E of W jct US 75	Rural	060 - Lyon	6/20/2013	
1/31/2009	034535	none	2/1/2009 12:00:00 AM		US 75 & IA 9	MOON CREEK	0.5 mi. E of W Jct. US 75	LYON	060 - Lyon		
1/31/2007	034535	none	2/1/2007 12:00:00 AM		US 75 & IA 9	MOON CREEK	0994505		060 - Lyon		
1/31/2005	034535	none	2/1/2005 12:00:00 AM		US 75 & IA 9	MOON CREEK	0000000		060 - Lyon		
1/31/2001	034535	none	2/1/2001		US 75 & IA 9	MOON CREEK	0000000		060 -		

Iowa Department of Transportation © Copyright 2018 Bentley Systems, Inc. Parsons : Magliola, Bob - Logout

0.5 mi. E of W ROCK 060 - 2/20/2017

jc

0.5 jc

0.5 Jc

0

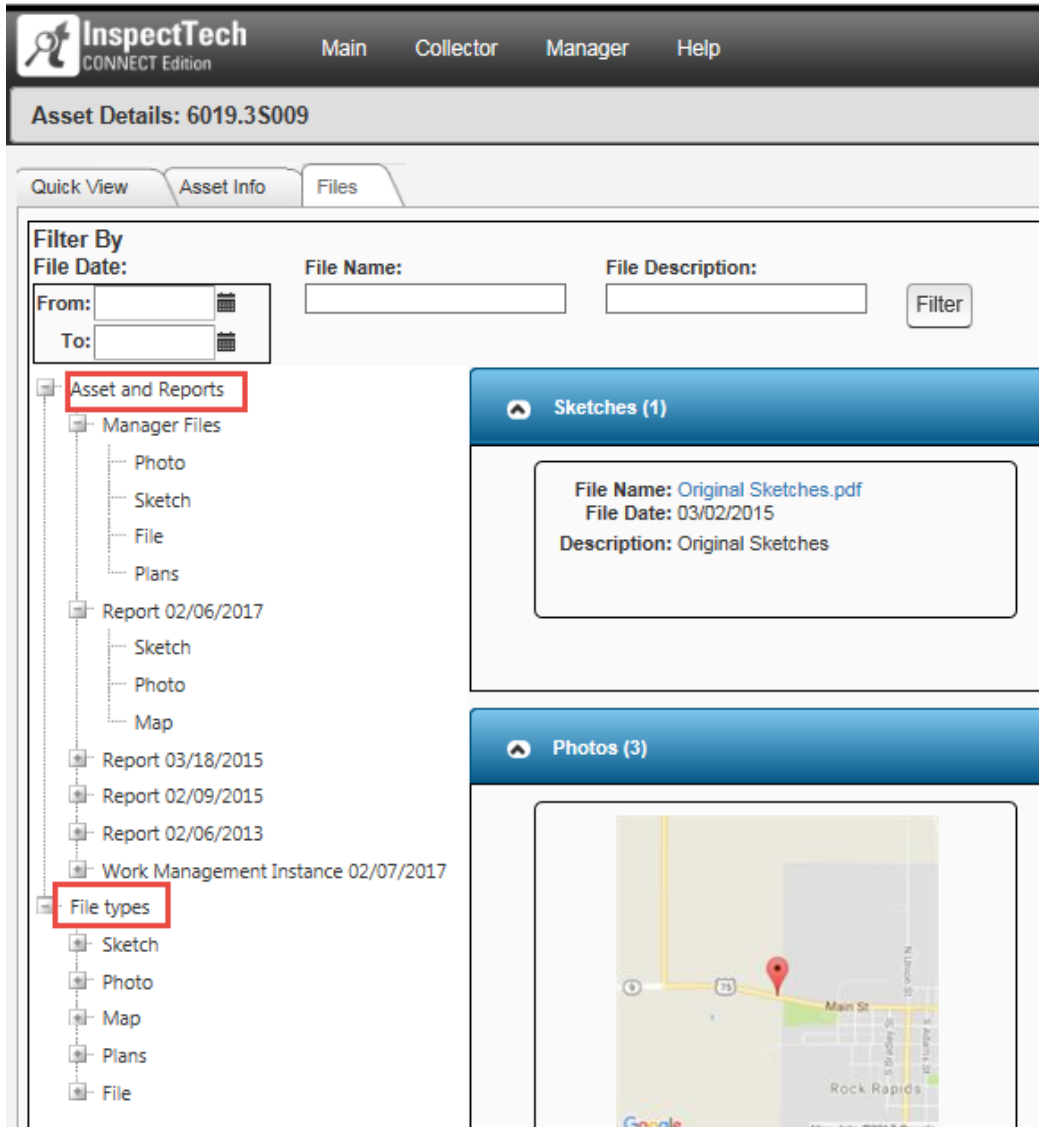
0

Lyon

**Select action for 6019.3S009:**

- Individual Report Sections PDF
- Email Report PDF
- View Complete PDF Report
- View Report Form View
- View Program Recommendations Report
- Current State SIA Report

The Files tab has all the past files collected for an asset and is where files can be uploaded. This includes Plans, Photos, Sketches, Load Ratings, concepts and other files. The files are sorted in two different ways; by file type and by inspection.



There are two ways to upload files into SIIMs. The first method is to click, drag and drop onto the “Attach Picture/File” field area. The other is to use the select button and navigate to the file. Once the files have been selected set the file type appropriately on the right. All files uploaded in to SIIMs shall have the FHWA number in the name and be uploaded into the proper folder. Folder options are shown below in the second image. A description of the file can also be added to clarify the content of the file.

Asset Details: 6019.3S009 Show More Details Edit Asset Values Show on Map Create

Quick View **Asset Info** Files

**Attach Picture/File**

Select

calculation 034535.xlsx  034535 shop drawings.pdf  
 034535 original plans.pdf  rating 034535 .pdf

Description

Description

Description

Description

No files to upload Attach

File Type Load Rating

File Date (i.e. Date Picture Taken):

Set description to file name on Attach

## File types

File Type Load Rating

File Date (i.e. Date Picture Taken):  Set description to file name on Attach

- Sketch
- Photo
- Map
- Plans
- As-Builts/Plans
- Shop Drawings
- Load Rating**
- File
- Channel Section
- Scour
- Video
- Correspondence
- Audio
- Fracture Critical Details