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Aristida Homeowners Association, Inc
c/o Wise Property Management, Inc. / Joseph Vilardi, LCAM
18550 N. Dale Mabry Hwy.
Lutz, FL 33548

July 14, 2022

Re: **SWFWMD ERP – 2022 Stormwater System Permit Renewal Inspection Report**
SWFWMD Project Name: **Aristida - Phase 1** (111.9 acres)
Permit No. 40 002878.005 / Pasco County

CES Engineering has inspected the stormwater retention system located at the subject property on June 08, 2022. This inspection was performed to determine if the system is being maintained and operated according to the conditions of the SWFWMD-issued permit. Before Michael Cammisa, P.E., can complete and submit the appropriate inspection form to SWFWMD there are some maintenance and/or compliance issues that were observed that we recommend be addressed, as follows.

- There are concrete Weir Structures through out the permitted area within the swale and berm systems that receive run off from the road and discharge to the wetlands. Many have excessive vegetation around the structures and inside the skimmers. Some are completely overgrown and others could not be located as indicated by the plans. We recommend clearing the vegetation so any other required maintenance, such as removing silt build up under the skimmers and/or on the discharge sides, can be conducted, as necessary, Some areas may also require some minor excavation or re-trenching to ensure proper flow into the wetlands. The berms may also need some attention. (See image #1 thru 8 and Site Plans).
- There are also concrete Weir Structures in the swale and berm systems at the wetlands behind the homes that receive run off from the residential lots. Some of these also have excessive vegetation around the structures and inside the skimmers. Some are overgrown and others could not be located as indicated by the plans. We recommend clearing the vegetation so any other required maintenance, such as removing silt build up under the skimmers and on the discharge sides, can be conducted, as necessary. Some areas may also require some minor excavation to ensure proper flow into the wetlands. Please note, some rear yards were not accessible to inspect the weirs. (See image #9 thru 12 and Site Plans).
- It should also be noted that it is possible that the plans may not be accurate. There are some notations in the plans indicating weirs were moved. (See Site Plans).
- The Mitered End Section (MES)/Pipe system that flows under Alico Pass (just north of Macoso CT) and connects the wetlands has silt build up, debris and vegetation in pipe ends that should be cleared. (See images #13)

- The connecting MES/Pipe system on the opposite side of the road has silt build up and muck in the pipe ends that should be cleared. The sump area there has a build up of muck that should be removed. (See image #14)
- There is a large Type H inlet basin on the north side of the road (Alico Pass) that receives flow from the mitigation area. The top grate is covered with debris and muck that should be cleared. The grates should be lifted and the basin cleared, if necessary. (See image #15)
- The HOA may want to consider some clearing at the discharge area of the connecting MES/Pipe on the opposite side of the road (See image #16)
- The MES/Pipe that receives flow from the ditch bottom inlet basin on the north side of Alico and discharges on the south side (near the entrance) has some silt build up and vegetation in pipe end and at the discharge area that should be cleared. The sump area there may also require some excavation. (See images #17 & 18)

Note: Example images of the issues are attached below. Please note that there are not images of every issue but the example images are indicative of other similar type issues. A site plan is also attached with the images locations

SUMMARY:

The overall stormwater system is presently in need of some maintenance. The facility is on a 60 month inspection cycle which sometimes allows for things to go unattended until the permit renewal comes up or a complaint is filed. Although some of the issues are minor, all are the type of issues that will only get worse and cost more to repair later, if not addressed. In addition they will impact the ability of the stormwater system to properly function and treat run-off. When the issues are corrected, a re-inspection of the stormwater system will be arranged and the appropriate paperwork completed for submission to SWFWMD.

At your request, CES Engineering can prepare an estimate quote to correct these issues. If you have any questions regarding the inspection report, please feel free to call me or Michael Cammisa, P.E., at (813) 969-2366.

Sincerely
CES ENGINEERING, INC.

Richard Gagen
Project Manager

Example Images



Image 1: Concrete Weir & Skimmer example



Image 2: MES/Pipe discharges towards Weir, swale may need minor exaction



Image 3: Weir, Skimmer, needs clearing



Image 4: Weir, skimmer need clearing, both sides



Image 5: Weir, Skimmer need clearing, both sides



Image 6: Weir, Skimmer barely visible, needs clearing both sides

Example Images



Image 7: Weir, Skimmer area, unable to locate



Image 8: Weir, Skimmer, needs minor clearing



Image 9: Weir, Skimmer (rear yard) needs clearing



Image 10: Weir, Skimmer (rear yard) needs some clearing behind structure



Image 11: Weir, Skimmer (rear yard) Barely Visible



Image 12: Weir, Skimmer (rear yard) Barely Visible

Example Images



Image 13: MES/Pipes, silt build up, debris, needs clearing



Image 14: MES/Pipes, silt build up, muck, needs Clearing, muck removal



Image 15: Inlet basin/ Grate completely covered with silt, debris, needs clearing



Image 16: Weir Structure, Skimmer west swale, needs clearing



Image 17: Pipe in connector system under rod



Image 18: MES/Discharge, Feral hog damage

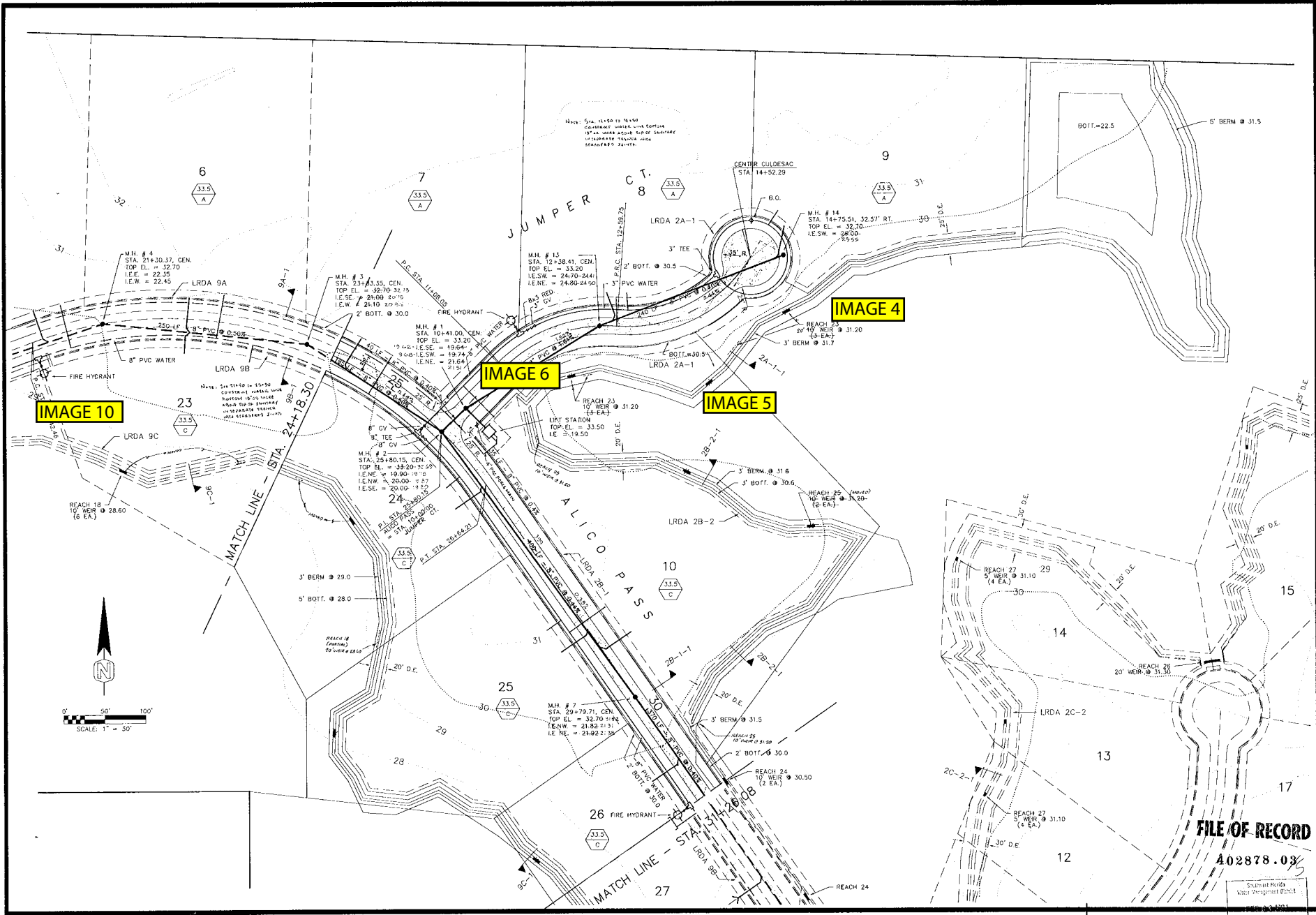


IMAGE 10

IMAGE 6

IMAGE 5

IMAGE 4

NO.	DATE	REVISIONS
1	9-14-09	AS BUILT
2	8-28-02	AS BUILT
3	2/26/02	AS BUILT
4	2/26/02	AS BUILT

CASSON ENGINEERING COMPANY
 6321 GRAND BOULEVARD, NEW PORT RICHEY, FLORIDA
 CIVIL ENGINEERS (FL) 3467-7838

ARISTIDA PHASE 1
 CONSTRUCTION PLANS
 PLAN VIEW

Handwritten Signature
 2-2-94

FILE OF RECORD

402878.03

Stuart Florida
 Water Management District
 1000 N. US HWY 1
 BRUNSWICK, FLORIDA 32109

5 OF 20
 EC-137-F-09

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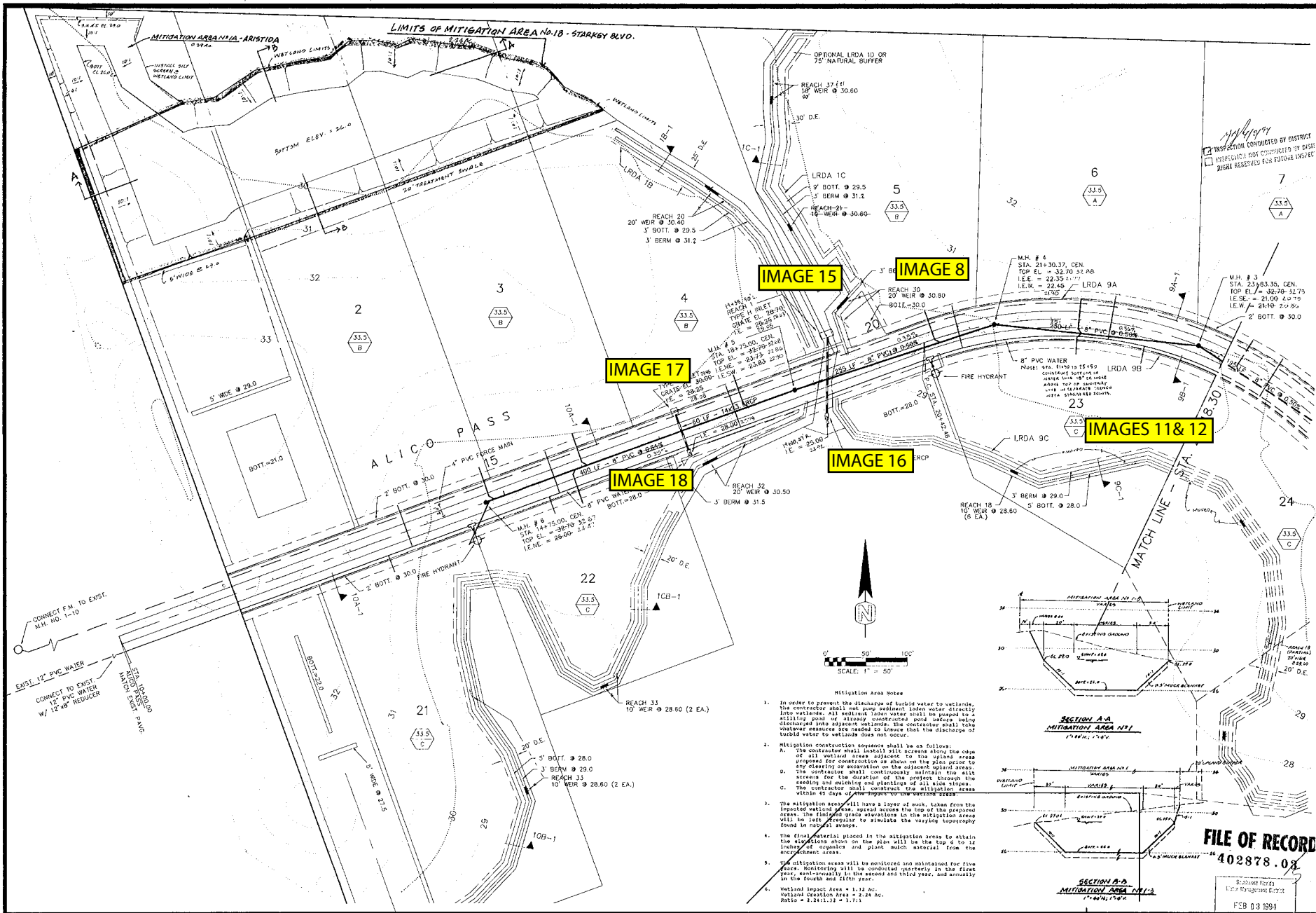


IMAGE 15

IMAGE 8

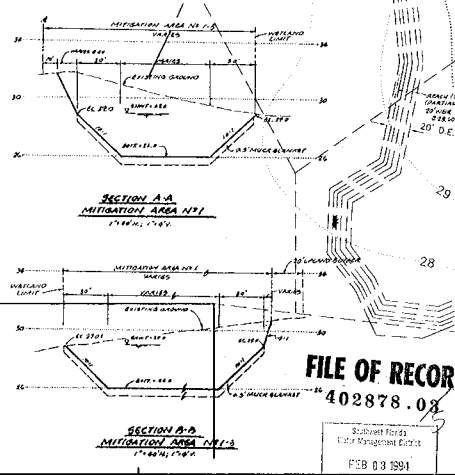
IMAGE 17

IMAGE 18

IMAGE 16

IMAGES 11 & 12

- Mitigation Area Notes
- In order to prevent the discharge of turbid water to wetlands, the contractor shall not pump sediment laden water directly into wetlands. All sediment laden water shall be pumped to a settling pond or directly constructed sump located near the discharge point. The contractor shall take whatever measures are needed to insure that the discharge of turbid water to wetlands does not occur.
 - Mitigation construction sequence shall be as follows:
 - The contractor shall install silt screens along the edge of all wetland areas adjacent to the upland areas proposed for construction as shown on the plan prior to any clearing or excavation on the adjacent upland areas.
 - The contractor shall continuously maintain the silt screens for the duration of the project through the seeding and matting and plantings of all silt screens.
 - The contractor shall construct the mitigation areas within 45 days of the support of the wetland areas.
 - The mitigation areas shall have a layer of mulch, taken from the impacted wetland areas, spread across the top of the prepared areas; the finished grade elevations in the mitigation areas found in natural swamps.
 - The final material placed in the mitigation areas to attain the elevations shown on the plan will be the top 4 to 12 inches of organics and plant matter material from the impacted areas.
 - The mitigation areas will be monitored and maintained for five years. Monitoring will be conducted quarterly in the first year, semi-annually in the second and third year, and annually in the fourth and fifth year.
- Wetland Impact Area = 1.12 Ac.
 Wetland Creation Area = 2.24 Ac.
 Ratio = 2.24:1.12 = 2:1



FILE OF RECORD
402878.03

Submittal Florida
Water Management District
FEB 03 1994
ECCO/DAVID P. HARRIS
204-260-7100

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 CIVIL ENGINEERS (FL) 00000000000000000000
 (813) 844-7528

ARISTIDA PHASE 1
 CONSTRUCTION PLANS
 PLAN VIEW

FILED
 2-2-94
 2-2-94

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Submittal Florida
 Water Management District
 FEB 03 1994
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 204-260-7100

Map Contents

- WMIS Map Viewer
- Resource Data Collection
- WAP Transects
- Well Construction Permits
- Compliance Tracking
- District Offices
- Pre Application Boundaries
- Contamination Sites
- WUP Withdrawals
- Water Use Permits
- Water Use Permits - High
- Self Cert Permits
- Retained Waters (USACE)
- Environmental Resources
 - Permits
 - Exemptions
- Institutional Control Regions
- Public Land Survey Sections
- Parcels District Wide
- District Counties
- Florida's Counties
- Roads
- 2020 Natural Color Imagery

