

## civil engineering

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WINTER 2020/Issue No. 41

# 2020 THINGS 2 COME

## NEW YEAR NEW LOOK NEW THINGS 2 COME NEW PROFESSIONALS

A new year and another opportunity to connect with our clients. As consulting engineers and land surveyors, we are client-centered and focused on providing the services to help you bring your visions to life. **2020** looks bright and we have some announcements of Things2Come>>>.

### UPDATED WEBSITE NEW YEAR NEW LOOK

We've started the new year with the launch of the updated TD2 website.

We have updated our brand look and internet presence to show off our expertise and create the space to be found.

As the year progresses, we will feature recent and relevant projects, processes, and Things2Come that best represent TD2 now and in the future.

Wendy Wiseman, Steve Hughes, and the Team of Zaiss & Company have applied their SEO and marketing expertise to understanding us and translating this into our new website. With their assistance, we can now reach and relate to our clients and community.

Pull it up and let us know what you think.

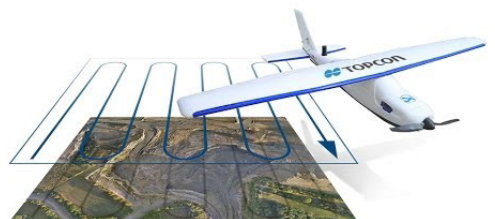
[www.td2co.com](http://www.td2co.com)

### SURVEY DRONES NEW YEAR NEW RANGE EXPANDED DRONE CAPABILITIES

TD2 is in its second generation of providing unmanned aerial drone services with the purchase of the Topcon's Sirius Pro and an additional copter.

To give us flexibility and options depending on the project, the fixed-wing drone allows us to provide a variety of aerial services on large sites, over difficult terrains, and in windier conditions. The smaller copter will keep us flying on smaller, more congested sites.

Dave Neef, R.L.S., has assumed the Project Manager responsibilities in this area.



# PROJECTS 2 WATCH

## NEW YEAR NEW DOWNTOWN

### LA VISTA 84TH ST. CORRIDOR



It isn't often an established city has an opportunity to design a new downtown. TD2 is providing a range of services in these La Vista projects to watch in 2020.

- Civic Center Park
- La Vista Placemaking
- La Vista City Centre – North & South Residential Buildings

Location: 84th St. Corridor, La Vista, NE  
Multiple Owners: public and private  
Various Architects: local and regional  
Services provided by TD2: land survey; civil, geotechnical, and structural engineering; construction materials testing and special inspections.

#### DREAMS & VISIONS COME TRUE

It is an exciting time for the City of La Vista as they create a vibrant city core. The projects cover a mixture of land-uses and require careful coordination involving various TD2 disciplines and expertise.

**Civic Center Park** - TD2 was the Coordinating Professional for the City during Phase I of the La Vista Falls Golf Course Transformation. TD2 provided the design services for grading, preliminary site layout, permitting, and agency coordination as the golf course site evolves into a 4-acre lake and community park. During Phase II, TD2 acted as the civil engineering consultant to develop plans for the trails, fire access lane, water quality basin, and sanitary sewer relocation.

A separate TD2 project leading up to the golf course transformation was the watershed restoration of **Thompson Creek**. After decades of urbanization in the watershed, the City turned to TD2 to provide a long-lasting solution to the flooding, erosion, and property damage. Completed in 2016, it was an essential early step to make the lake and community park projects possible.

**La Vista Placemaking** – TD2 is the civil engineering consultant coordinating the transitional elements connecting the public Civic Center Park with the private

La Vista City Centre. To fulfill the City's desire to make this gathering space memorable and accessible, a central feature of this boundary space will be an indoor/outdoor music venue as well as a pedestrian connection under 84th Street to an 8-acre site. But there is much more to come. The current conceptual plans set the stage for the future design of additional park improvements.

**La Vista City Centre** - For this \$235M private development by City Ventures, TD2 structural engineers are working on two mixed-use residential structures with different architects. A skywalk connects the two buildings.

- North (TACKarchitects) – 6-story, 57,239 SF consists of four stories of apartments over a parking garage level, apartment lobby, and resident amenities. Cast in place concrete foundations support masonry walls with wood stairs, cast in place walls, precast concrete columns, and beams in hollow-core floors.
- South (BVH Architecture) – 6-story, 45,480 SF consists of four stories of residential space over two levels of retail and parking. The lower two levels are constructed of precast concrete and steel support wood and light gauge steel framing.

Photos courtesy of the City of La Vista.



Aerial view looking South.



La Vista City Centre front view.

# PROJECTS 2 WATCH TOO

## NEW YEAR NEW RECREATION

### PAPILLION LANDING



Papillion Landing is the new home of the Papillion Recreation Department. Owned and operated by the City of Papillion, the Recreation Center with Natatorium, Community Center, Fieldhouse, and Outdoor Sports Complex covers a lot of ground, 125-acres actually.

Location: 1046 W. Lincoln St., Papillion, NE

Owner: City of Papillion

Architect: Alley Poyner Macchietto Architecture

Services provided by TD2: land survey; civil, geotechnical, and structural engineering; construction materials testing and special inspections.

#### STEPPING UP

Creating an exceptional Quality of Life for all its citizens is number one for the City of Papillion. Papillion Landing will be a prime gathering space for residents to connect. And a connected community is what Papillion plans for, designs for, and builds for.

TD2 has been working across disciplines and in many capacities:

#### Site/Civil Highlights:

- Land Acquisition – In late 2016, the original site selected shifted slightly east between Cheyenne Drive and Overland Trail to provide better layout options.
- Creek – wetlands mitigation, floodplain development permit, and 404 & 408 Corps permits
- Grading – Overexcavation and surcharge were required for the building pads to improve and pre-compress the site’s softer soils.
- Infrastructure – utilities, sewer, and water
- Access – A related TD2 project, **Lincoln St. Improvements**, removed and replaced 4,730 feet of 30-foot wide, two-lane roadway with a 34-foot crowned roadway section with two 11.5-foot wide, outside thru-lanes and an 11-foot center turn lane. The phased and fast-tracked improvements were needed to improve capacity and safety and provide construction access. The roadway features two roundabout

intersections in conjunction with entrances, pedestrian sidewalks, and bike paths that maintain continuity to the existing pedestrian path systems.

#### Structural Highlights:

- Built first and opened late in 2018, the 81,000 SF Field House is a huge superstructure of one pre-engineered metal building and one conventionally steel-framed building that adjoin a central two-story space.
- Open as of January 2020, the 96,000 SF Recreation Center and 23,000 SF Community Center are conventionally constructed and contain a mixture of steel framing, precast concrete wall panels, and cross-laminated timber (CLT).
- Natural materials of wood and glass are used structurally and architecturally inside and out.
- Spread footing foundations.
- Roofs are either terraced, flat, or sloped metal standing seam.
- A custom tube steel truss supports the roof and track on the west elevation.
- The natatorium roof and walls are framed with glulam beams, columns, and CLT panels.

The City Council has given the go-ahead to the addition of a softball complex and soccer fields to the north.



Tube steel truss.



Interior ceilings combine glulam wood beams, wood decking, and stained wood soffit panels.

Photos courtesy of the City of Papillion.



Surcharge improves and pre-compresses existing soils.



November 2019 aerial looking Southeast.



Recreation Center large gym (7 laps = 1 mile).



Natorium.

# PROFESSIONALS 2 WATCH

## NEW YEAR NEW CIVIL ENGINEERS

### ALEXANDRA BERNEY

### BEN DREWS

We are delighted to report that Alexandra Berney and Ben Drews have passed their Principles & Practice of Engineering Exam and are newly minted Professional Engineers.



Alex works in TD2's Geotechnical department preparing reports based on geotechnical design parameters determined by analyzing and evaluating soil laboratory

work. She joined TD2 as a summer intern in 2012 and has had a unique experience starting in and staying with the soil's lab over a long period.



Ben works primarily on civil/site layouts. He came to TD2 in 2014 as an E.I. after doing IT contract work when the job market for engineers was tight. Ben had an eventful test

day of not only taking the most crucial exam of your life but also finding out afterward his wife, who was expecting, was at the hospital ready to have their baby. His son, Elijah, was born early the next morning.

Congratulations engineers!

## WRAP IT UP

*happy new year*

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Founded in Omaha, Nebraska in 1967, Thompson, Dreessen & Dörner, Inc. (TD2) has established itself as a highly respected and experienced Civil Engineering, Geotechnical Engineering, Structural Engineering, Environmental Engineering, and Land Surveying firm. TD2 meets the demands of today's residential, commercial, and industrial sectors with a superior level of expertise and professionalism.

Providing professionalism and respect for our clients and the community.

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