

Gerloff, Christa

From: Colin Belby <cbelby@uwlax.edu>
Sent: Friday, August 9, 2019 2:18 PM
To: Gerloff, Christa
Cc: Niti Mishra; Cynthia Berlin; Trussoni, Dan; Odeggaard, Jason
Subject: RE: installing survey makers in Myrick Park
Attachments: UWL_survey_marker_photo.jpg; UWL_Survey_Marker_Request_Map.jpg; Potential_UWL_Survey_Marker_Locations.kmz; potential_UWL_survey_marker_locations_lat_long.xlsx

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Hi Christa,

I am requesting approval from the La Crosse Parks Board to install nine 2" aluminum survey markers on the west side of Myrick Park. Attached is a photo of the survey marker we would use at each location and more information on them can be found [here](#). I also attached a map of where I'd like to install the survey markers. Each marker would be secured to a 4 foot piece of 3/8 inch rebar that is hammered into the ground so the markers are flush with the soil surface and do not present a hazard for people, animals or lawn equipment. It has been my experience that the markers become buried by a thin layer of soil within a year, further reducing their visibility and potential impact. Each year I would relocate them by GPS and metal detector, virtually eliminating the disturbance of sod when exposing them for class activities.

I installed similar survey markers on the UWL campus more than 5 years ago, but ongoing construction has caused many to be lost or become inaccessible. The markers are critical for our ability to teach students how to use cutting edge mapping equipment before they graduate and seek jobs with government agencies and private consulting firms. Permanent markers within Myrick Park would reduce the time-consuming need for instructors to survey temporary features annually. Myrick Park would provide an ideal location for the mapping assignments because there is limited foot traffic in the areas shown on the attached map relative to what is encountered on campus during the semester and the park is within walking distance of campus. A larger permanent survey marker was installed several years ago by La Crosse county about 50 yards west of points 1-3 on the map, and we would also use official geodetic marker in our class activities.

The survey markers would be used by students enrolled in upper level Geography and Earth Science courses at UWL, including:

- Geospatial Field Methods (taught by Dr. Colin Belby)
 - Used for total station, GPS, differential leveling, laser rangefinder, terrestrial laser scanning (lidar), and unmanned aerial system (drone) mapping activities
- Geospatial Applications of Unmanned aerial systems (taught by Dr. Niti Mishra)
 - Used as ground control points for unmanned aerial system mapping

I am unable to attend the 5:30 Parks Board meeting on Thursday, August 15. My colleague, Dr. Cynthia Berlin, will be attending in my place. She is familiar with the use of the field equipment in the two courses mentioned above. Both Drs. Belby and Mishra have the required FAA certification to fly drones and would follow all FAA guidelines with regards to avoiding people and notifying the La Crosse airport in advance of their use.

In addition to the attached photo and map, I have included a KML file of the proposed site locations that can be opened in Google Earth and a spreadsheet with the latitude and longitude of the sites.

Thank you for your consideration.

Colin

Colin Belby

Associate Professor and Chair

Department of Geography and Earth Science

River Studies Center

University of Wisconsin – La Crosse

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La Crosse, WI 54601

608-785-8339

Fall 2019 Office Hours (2021 Cowley)

Tuesday 11:00-12:00

Wednesday 9:00-10:00; 3:30-4:30

Thursday 12:30-1:30

and by appointment

From: Gerloff, Christa <gerloffc@cityoflacrosse.org>

Sent: Friday, August 2, 2019 9:51:32 AM

To: Colin Belby <cbelby@uwlax.edu>

Subject: RE: installing survey makers in Myrick Park

If you would want to include that person's contact information with your other materials, I will make sure that they are copied on the Final Agenda.

From: Colin Belby <cbelby@uwlax.edu>

Sent: Friday, August 2, 2019 9:35 AM

To: Gerloff, Christa <gerloffc@cityoflacrosse.org>

Subject: RE: installing survey makers in Myrick Park

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Excellent. Thanks.

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Legend
Feature 1

UWL Survey Marker Request
Pins represent the potential location of survey markers that will be used by UWL Geography and Earth Science Students



Comment	Longitude	Latitude	Horz_Prec (m)
OP1	-91.226123390	43.820356434	0.6
OP2	-91.226160879	43.820344264	0.5
OP3	-91.226196684	43.820325751	0.9
BM1	-91.226304902	43.820856719	1.2
BM2	-91.225425182	43.820387292	0.6
BM4	-91.226344111	43.819889808	1.0
BM4	-91.226232985	43.819324560	0.5
BM6	-91.225618045	43.819528283	0.6
BM6	-91.226364423	43.820558321	0.9