



The Next Phase of the Catherine and Isiah Leggett Math and Science Building

Takoma Park / Silver Spring Campus

February 8, 2022

Welcome Remarks

Mr. Michael Akin

President

LINK Strategic Partners

Dr. Brad Stewart

Vice President and Provost, Takoma Park / Silver Spring Campus

Montgomery College

Meeting Agenda

- 1. Current Construction Project Status**
 - COVID-19 Operating Procedures

- 2. Progress Update**

- 3. Logistics**

Barton Malow COVID-19 Operational Procedures

Barton Malow is committed to maintaining a healthy working atmosphere on site and will stay flexible to rapidly evolving guidelines.

Barton Malow Plan follows CDC & Local Guidelines

Social Distancing Measures

- 6' separation at daily foreman meetings
- Smaller group safety orientation meetings held more often than usual
- All work surfaces (i.e.: tables, chairs) cleaned following the meeting
- Cleaning of portable toilets increase to 2x week – on site staff provided with bleach and cleaners
- Face-to-Face meetings held to a minimum – video meetings encouraged
- Workers to maintain 6' separation when working when possible.
- No congregation for lunch (i.e. no lunch room)
- Should a worker report illness after leaving site, a site investigation will be completed
 - Current Guidelines:
 - A worker with a positive result will return to the site following most recent CDC Guidelines.
 - Contact tracing investigation completed – workers identified that require testing and possible quarantine



Progress Update



Leggett Building Project Activity Update – February 4, 2022

Dear Neighbors,

Thank you for your interest in the Leggett Building construction project at the Takoma Park/Silver Spring Campus. We will strive to keep our neighbors informed about significant construction events with this weekly email notification.

Upcoming activities are listed below:

- **Steel**
The erection of steel columns and beams is continuing and deliveries of steel materials are being received. All trucks are required to follow designated routes to and from the site and must enter and exit on Fenton Street from Philadelphia.
- **Upcoming Concrete Work**
In the next few weeks, we will begin a new phase of our concrete operations, which involves the use of a concrete pump truck to place and finish concrete within the steel structure. This truck is necessary to pour concrete at various levels of the structure. To increase efficiency, we will seek to bring the concrete pump truck on site at 6 a.m. (an hour earlier), to enable timely concrete placement and allow additional time for the completion of the concrete process. No other trucks will enter the site before the 7 a.m. start time. Learn more about the upcoming concrete process and potential changes to site operations on our website.
- **Hauling Materials**
Soil is being removed from the site and replaced as needed.
- **Spring Semester Operations**
Students are back on campus this semester for face-to-face classes. All employees and students must be vaccinated or obtain an exemption from this requirement and test regularly.

Please visit the project's website at montgomerycollege.edu/tpss-design for additional information. You may contact us with questions at community@montgomerycollege.edu or call the project hotline at 800-879-9879.

Thank you,

The Montgomery College Team

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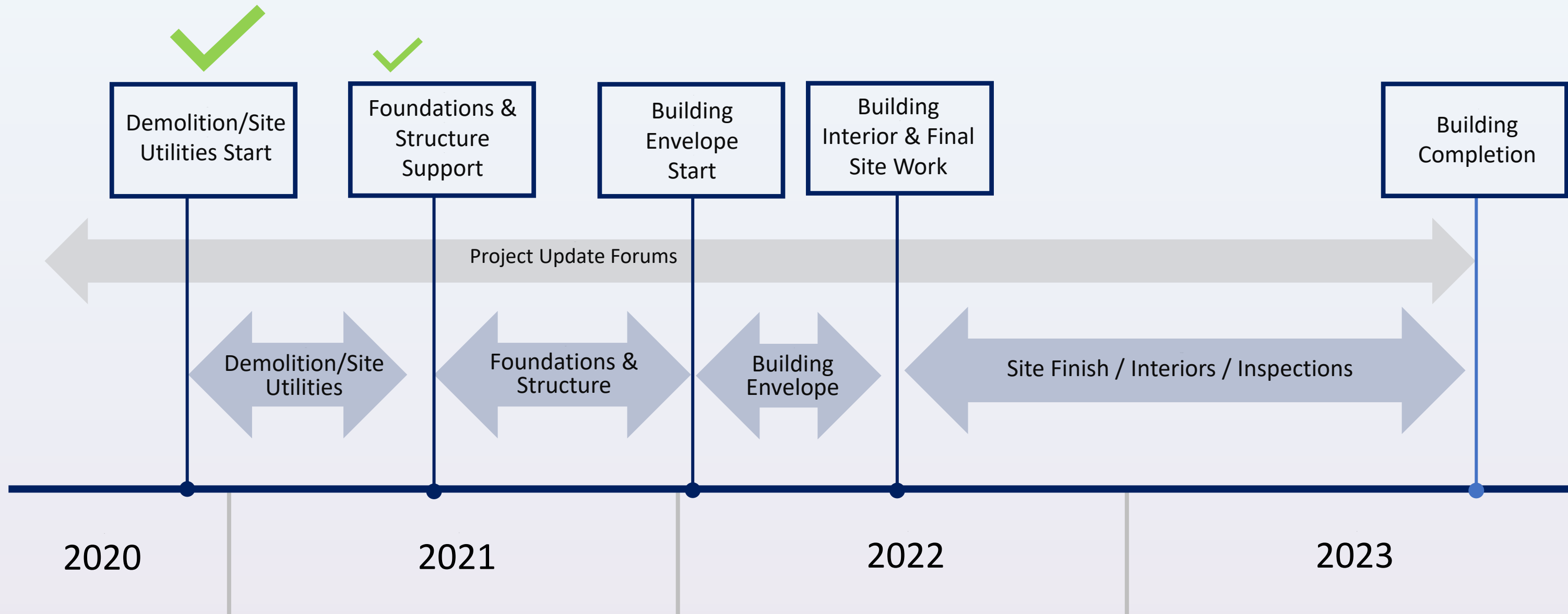
Fact Sheets

- [Asbestos Info Sheet: Asbestos Information from the State of Maryland and Montgomery College](#)
- [Instructional Lab Operations at Montgomery College](#)
- [LEED Info Sheet: Sustainability Information: LEED Is "Green Buildings"](#)
- [Tree Protection: July 2019](#)
- [Environmental Site Design/Stormwater Management: July 2019](#)
- [Landscape Fact Sheet: June 2020](#)
- [Updated Landscape Fact Sheet: August 2020](#)
- [Stormwater Management Fact Sheet](#)
- [Noise Fact Sheet/Noise Mitigation Plan: November 2020](#)
- [Erosion and Sediment Control Fact Sheet: November, 2021](#)
- [Concrete Fact Sheet: February, 2022](#)

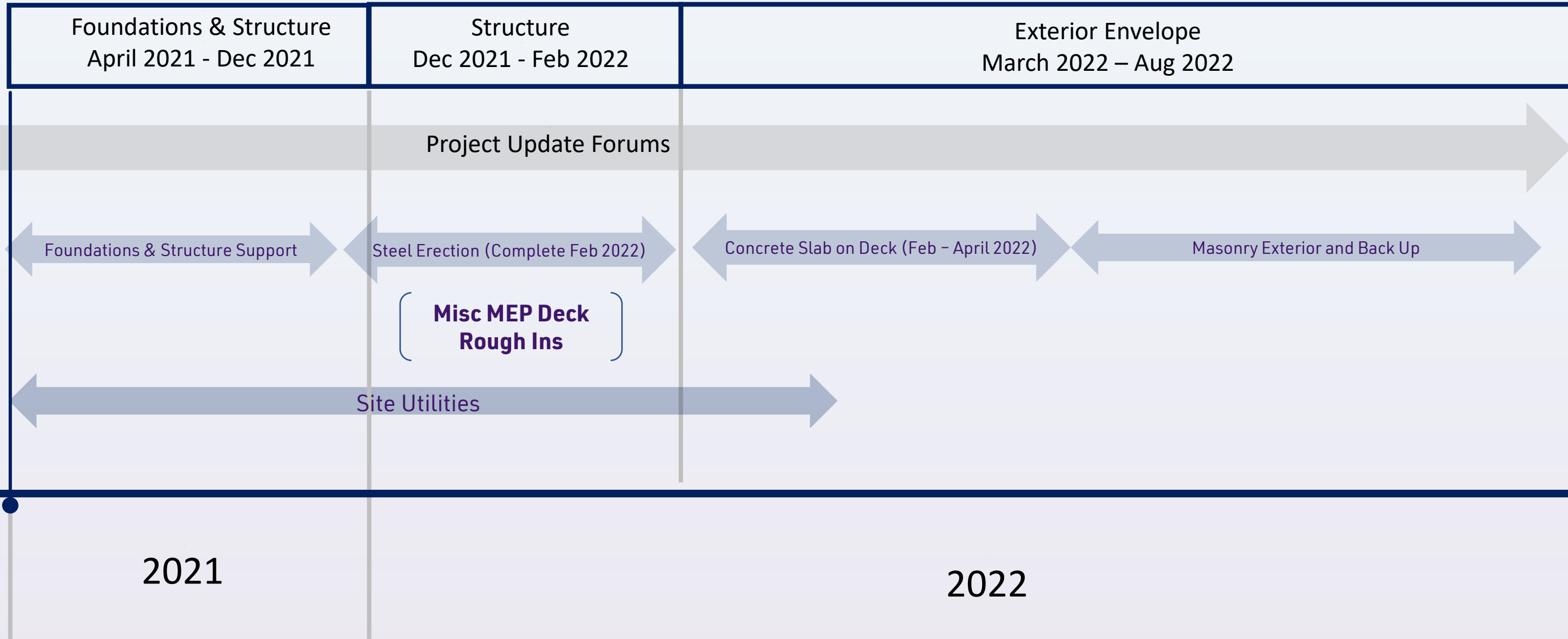
- Weekly updates on the website every Friday
- **Note:** Significant changes occurring between updates will have an additional post

Construction Overview Timeline

Looking Ahead



Construction Look Ahead





Existing Conditions

Existing Conditions



Foundation & Structure Support



- Concrete foundations and walls complete
- Steel erection underway; expected completion late February

Foundation - Progress



Ongoing Work - Concrete Foundations

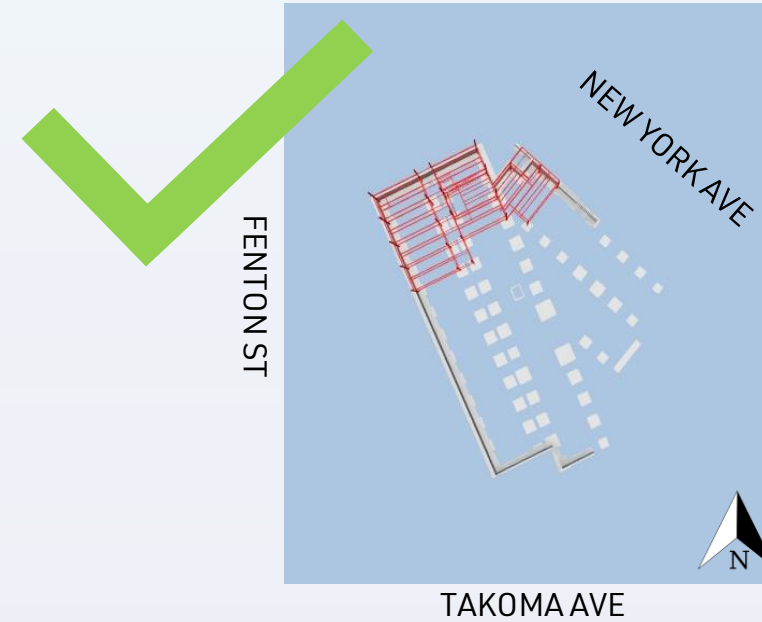
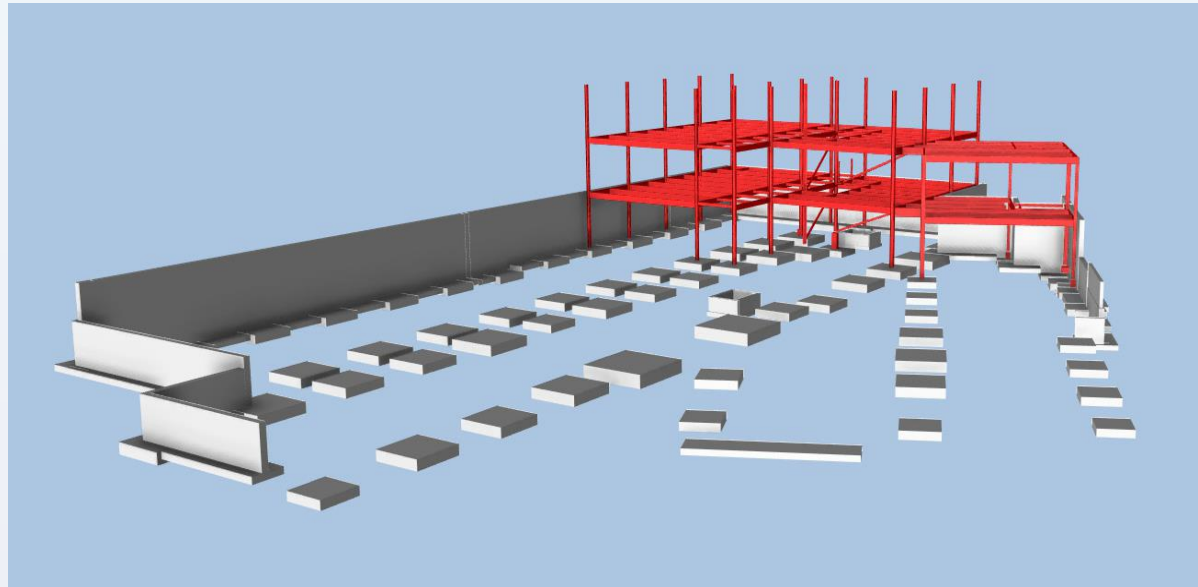
- Underground concrete foundations started Sept 2021
- Deliveries
 - Steel rebar trucks
 - Concrete trucks
 - Formwork
- Work Activities
 - Cutting of formwork
 - Saw cutting
 - Excavation
 - Concrete deliveries
- Noise Management
 - No unnecessary equipment idling
 - Concrete trucks "rotation" at a lower turn until on site
- Estimated duration: 3 Months

COMPLETED

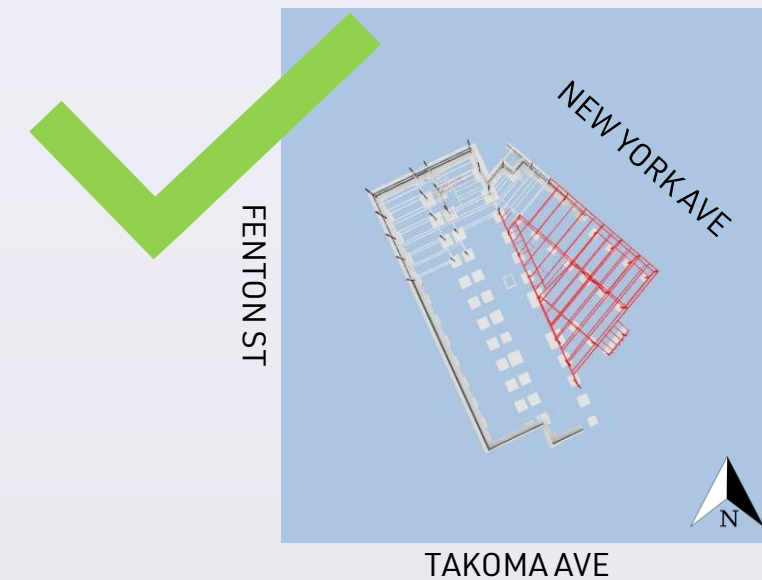
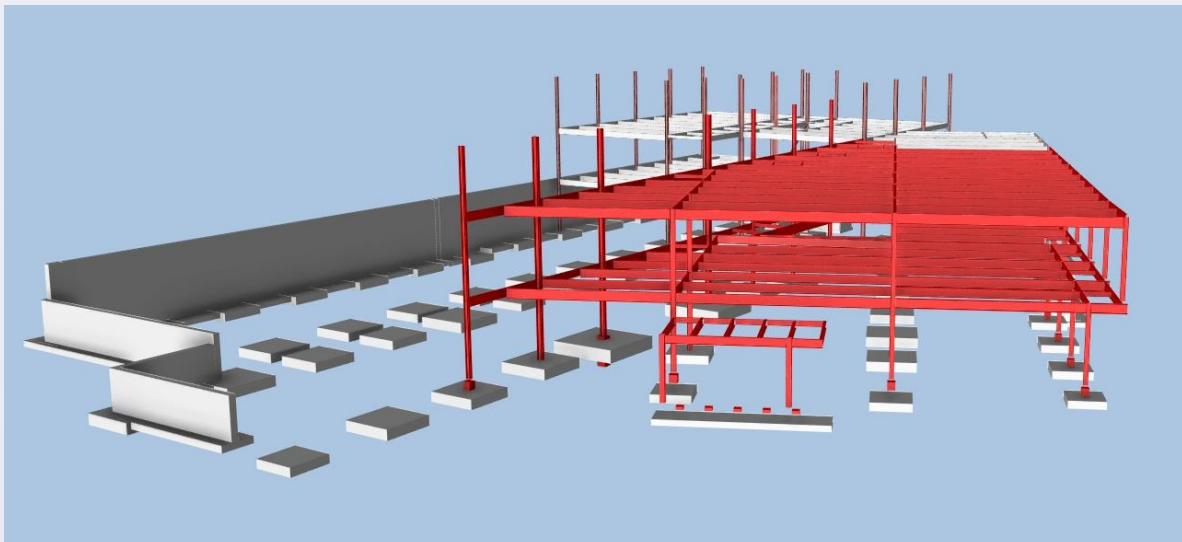
Ongoing Work - Steel Erection

[Anticipated Completion Feb 2022]

Steel Erection - Phase 1

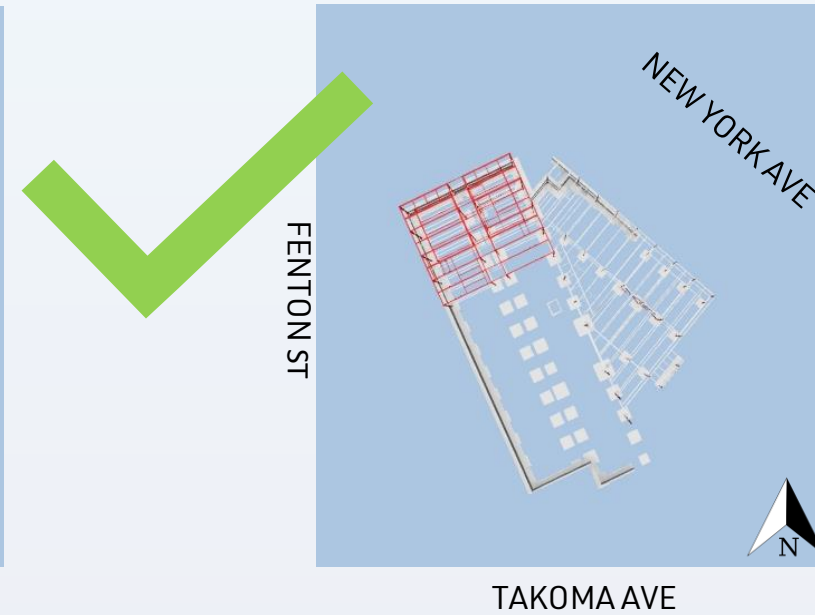
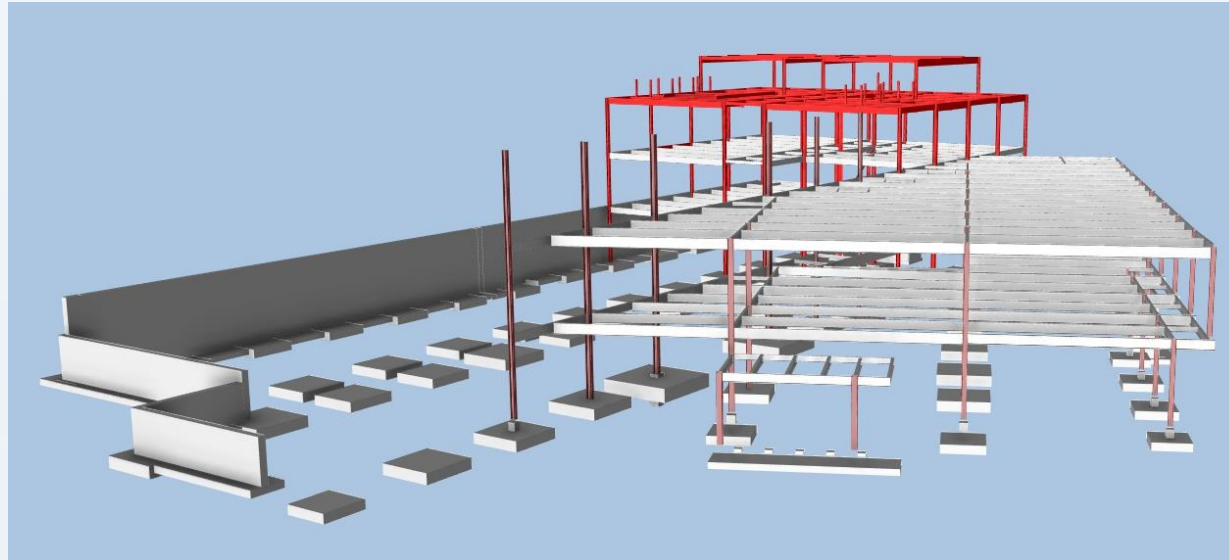


Steel Erection Phase 2

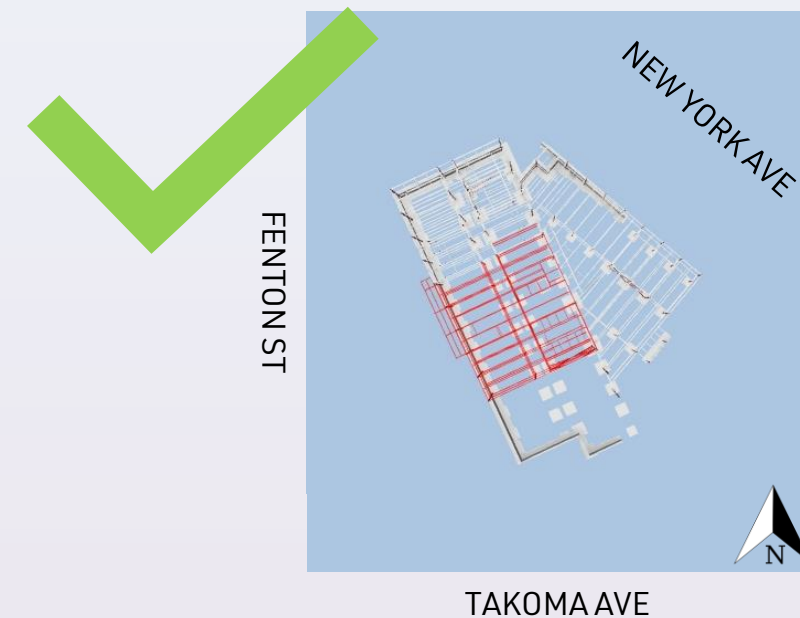
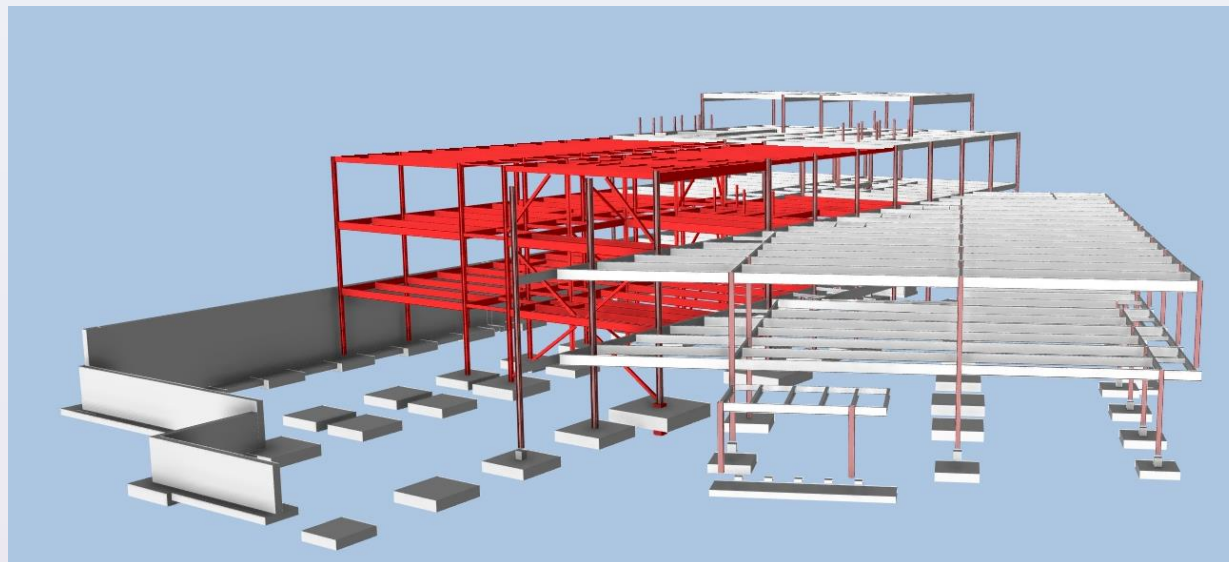


Ongoing Work – Steel Erection

Steel Erection Phase 3

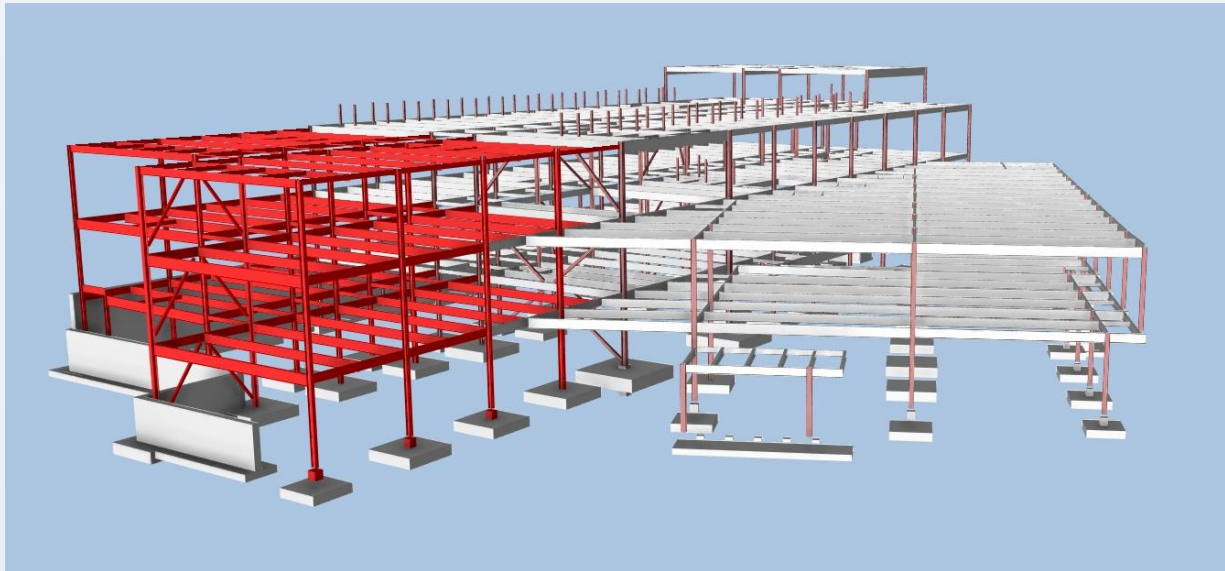


Steel Erection Phase 4

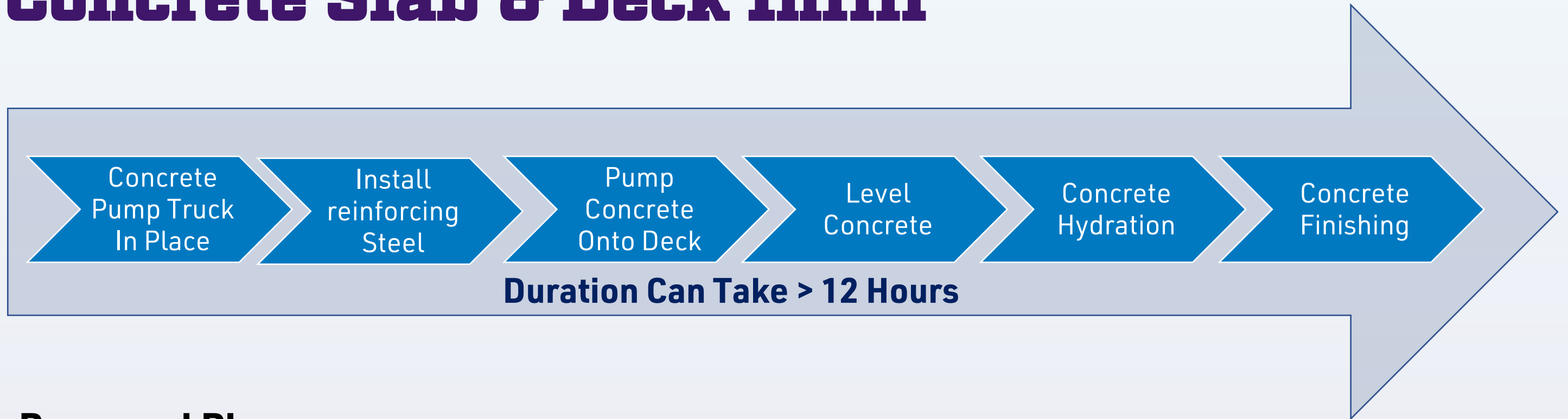


Ongoing Work – Steel Erection

Steel Erection Phase 5



Upcoming Work - Concrete Slab & Deck Infill



Proposed Plan

- Pump truck arrives at 6 AM for set up
- Concrete trucks arrive at 7 AM
- Blankets placed to mitigate any noise / light

Upcoming Work - Concrete Slab & Deck Infill



Catherine and Isiah Leggett Math and Science Building
Concrete Fact Sheet
February 2022

Foundation Concrete Placement Phase Complete

Concrete and concrete materials have been utilized throughout the construction of the Catherine and Isiah Leggett Math and Science Building to support the construction of a strong foundation. As steel placement nears completion, the next phase of construction will involve placing concrete within the steel building structure, which requires the use of different techniques from the current concrete operations. As a result, concrete operations will look different than in previous phases of the project.

Concrete Basics

Concrete is a rock-like material made by mixing together three main components: water, cement, and aggregate (stone). A chemical reaction involving water called hydration glues the aggregate together, hardening the mixture and gaining the strength to form concrete. Despite the fact that concrete appears to be drying, hydration is not evaporation, and the water must remain in the concrete as it cures or sets.

Next Phase Concrete Placement Timing

Unlike concrete used in the building foundations, concrete placement and finishing within the steel structure frame is a process that can take up to 12 hours or more to complete each day. The process is affected by temperature, humidity, and wind. During the finishing process, the team will use power trowels or finishers on the concrete surface once the surface water is absorbed into concrete. Once started, it is essential to continue the process until the concrete is finished completely, or risk having to remove the damaged concrete with jackhammers. The surface water on the concrete must be absorbed back into the concrete (hydration) to allow the finishing process to proceed to its conclusion. However, the timeframe for the hydration process is unpredictable given that it is dependent on a variety of factors outside of our control.

Mitigation and Management Strategies

Efficiency is central to successful concrete placement and can assist with mitigating the impacts of this phase of the project. There are several ways to increase efficiency throughout this process. A key mitigation strategy is to prepare early to start placing concrete at 7 a.m. In order to do this, the concrete pump truck will need to arrive earlier in the day.

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Currently, any trucks and deliveries do not enter the site before 7 a.m. To reduce the likelihood that the concrete finishing process will run into the late evening, we propose to bring the concrete pump truck on site at 6 a.m. More details on the mitigation and management strategies are as follows:

- The City/County will be contacted and engaged regarding the pump truck entering the site at 6 a.m. This will be a single truck with a crew of four workers. The truck will be positioned and prepared for the concrete trucks which will not be allowed to enter the site until 7 a.m.
- The sound levels will be monitored. The only noise that will be generated by bringing the pump truck on site early will be the sound of the diesel truck idling on the work site. The truck will idle as it maneuvers into the correct position and makes the necessary preparations for beginning the work; however, the truck will not need to idle for the full hour between 6 and 7 a.m. As a result, it is unlikely this setup will violate the noise ordinance or be disruptive. All trucks will be using the established trucking routes to maneuver materials onto the site.
- Backup alarms will be disabled during the amended work hours to eliminate disruptions and noise. Flaggers and alternate methods will be used in place of the alarms to ensure the safety of workers during that time.
- During the finishing process, blankets will be draped over the edge of the steel structure closest to the neighborhoods to minimize any sound or light pollution generated by the process. This process may continue into the late evening depending on the concrete cure times encountered. The drapes will be placed on the floor below where (if necessary) heating will take place to help expedite the hydration process.
- The equipment used for the finishing process typically produces sound equivalent to that created by a lawn mower. About four pieces of equipment will be in use at one time during the finishing process. Again, blankets will be utilized to help stay within the parameters of the noise ordinance.
- The estimated time of completion for this phase of the concrete work is around a month.

Starting the concrete placement process early is a way to ensure concrete work is completed in a timely manner and in a timeframe that is not an inconvenience to the community. This is a typical practice utilized on construction sites to complete the concrete slab placement process in an effective and timely manner which assures quality work and creates a solid building structure.

It is imperative that once this process commences, there are no interruptions or delays. This would create the risk of having to remove the concrete (using jackhammers, etc.)

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result in much more time-consuming and intrusive

vide information on this phase of the project. The of the Environment as well as the City of Takoma Park ghout this next phase of the project.

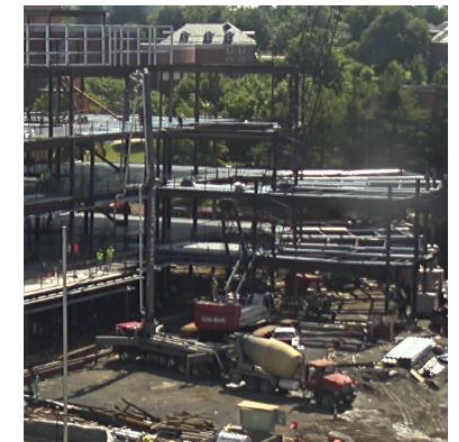
k may be submitted to [edu](#) or for immediate concerns, call the project hotline



Concrete Delivery Truck



Examples of the Concrete Process



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Upcoming Work - Concrete Slab & Deck Infill



Concrete Deliveries



Concrete Pump Truck



Blanket

Upcoming Work - Concrete Slab & Deck Infill



Concrete Finishing Crew



Upcoming Work – Enclosure

What is “enclosure”?

- What everyone sees from the outside and the support / back up required.
- Materials: metal studs, masonry/brick, roof, windows/glazing



STEP 1



STEP 2



STEP 3

Upcoming Work – Enclosure

Deliveries

- Block
- Brick
- Mortar
- Rebar

Tools / Process

- Mortar Storage Silo
- Mortar Mixer
- Sawcutting
 - Masonry / Rebar



Mortar Storage Silo



Mortar Mixer

Current Delivery Situation

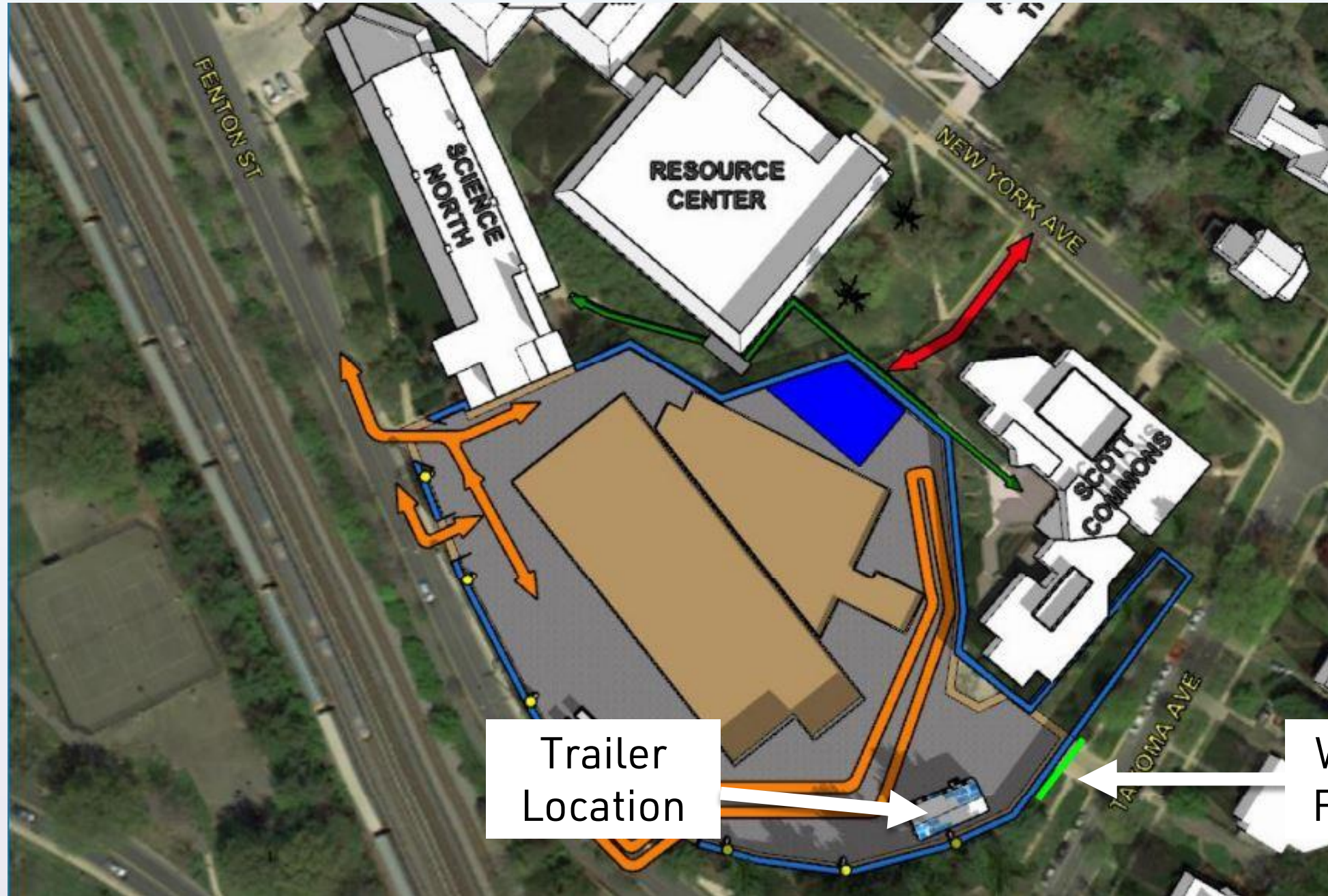
- Typical deliveries (concrete, pick up truck, box trucks, trailers) all enter / exit at Fenton St. - **this will not change**





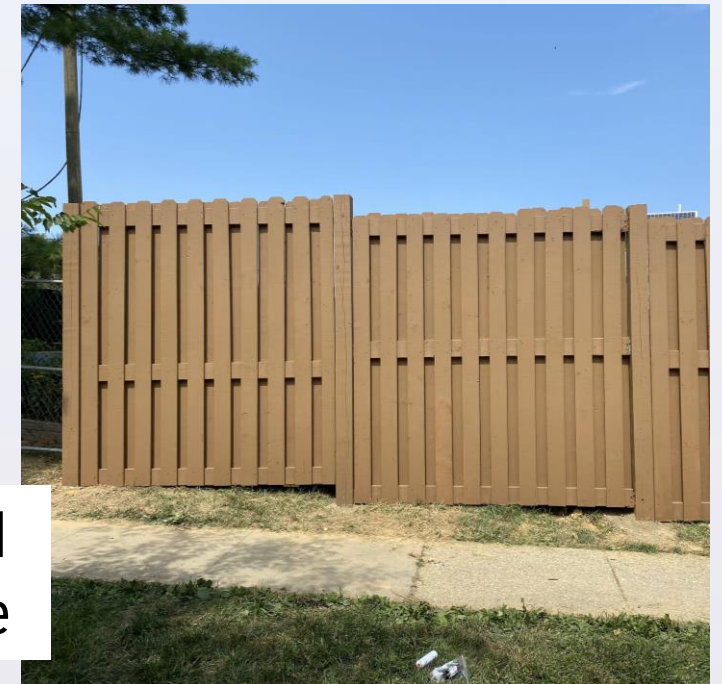
Site Logistics

Logistics



Trailer Location

Wood Fence

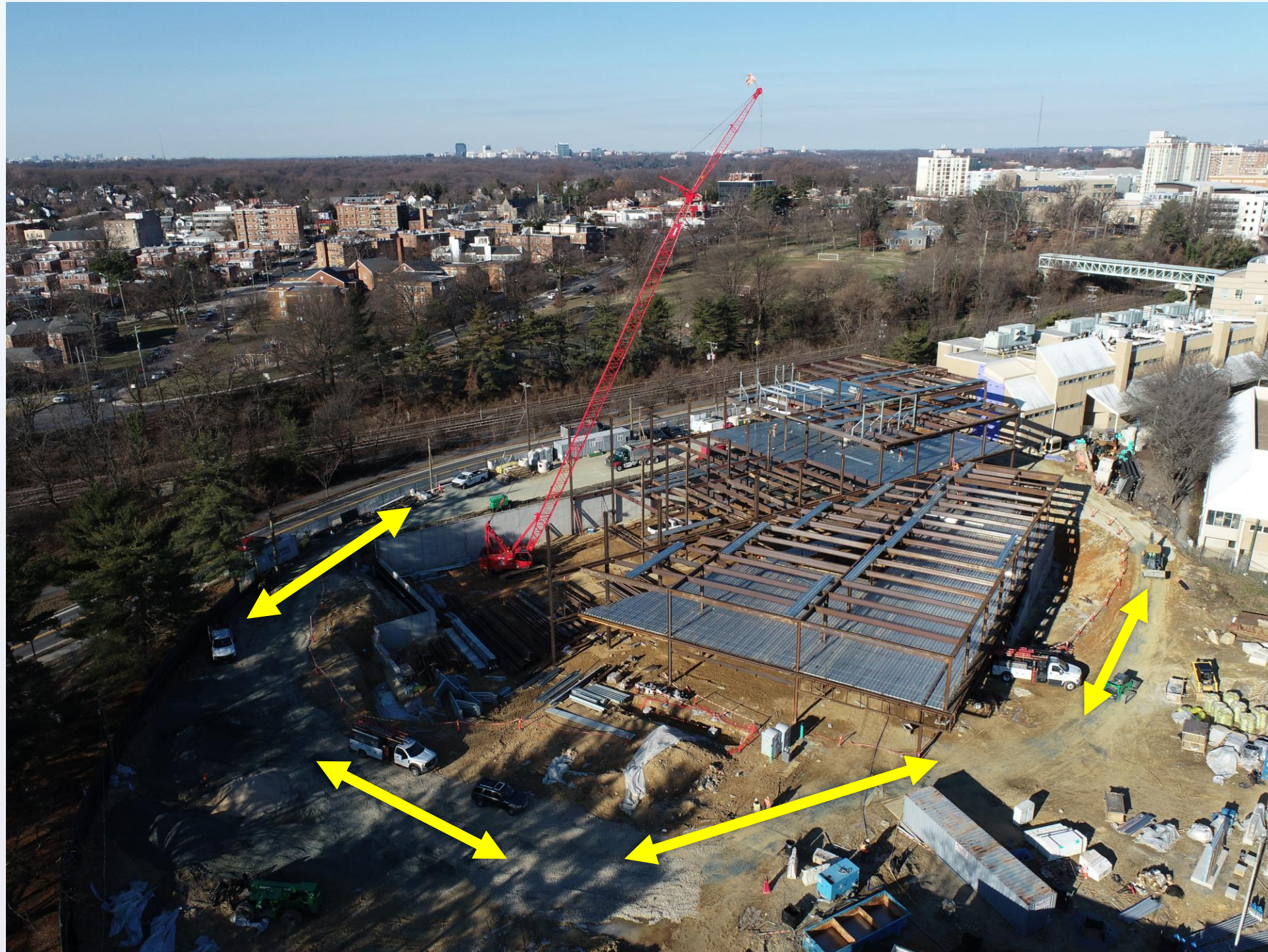




Delivery Conditions



Delivery Conditions



Delivery Conditions

Engagement



HOTLINE
800-879-9879



**SCHEDULED MEETINGS
BY APPOINTMENT**

Virtual Meetings



WEBSITE
[montgomerycollege.edu/
tpss-design](http://montgomerycollege.edu/tpss-design)



PROJECT EMAIL
[community@
montgomerycollege.edu](mailto:community@montgomerycollege.edu)



**MEETING SCHEDULE
REGULAR PROJECT
UPDATE FORUMS**

Look forward to our

Next Project Updates

Project Update Forum: Summer 2022

SMITHGROUP
LINK STRATEGIC PARTNERS

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Malow

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