



Lebanon – Lilly LP2 Monolithic Mat Slab Pour

August 21, 2023

Agenda

Safety Topic

Introduction

Project Team

Why – Strength & Durability

What – Mat Foundation

How – Single Monolithic Pour

When

Open Discussion

Action Items

Lilly Team

Kendra Schmitz

GFD Project Manager

Ken Weerts

GFD Project Manager

Kurt Lengacher

GFD Engineering Advisor

Curtis Nielsen

Design Specialist

Cole Perry

Messer Construction

Justin Angrick

Messer Construction

Why – Soil & Groundwater conditions

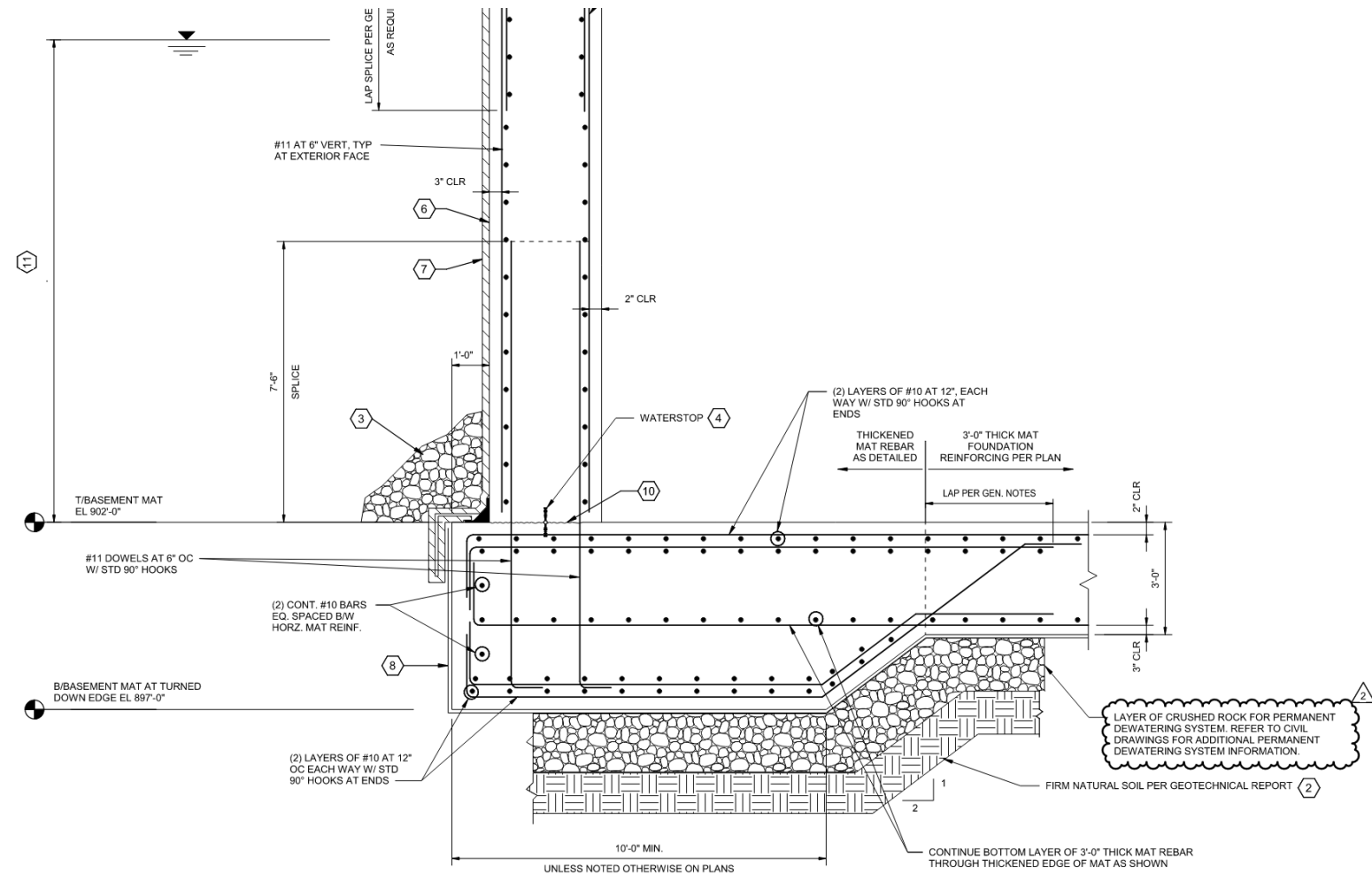
Issue: Ground water as shallow as 5ft

Gene Therapy building has a basement floor 20ft below grade.

Solution:

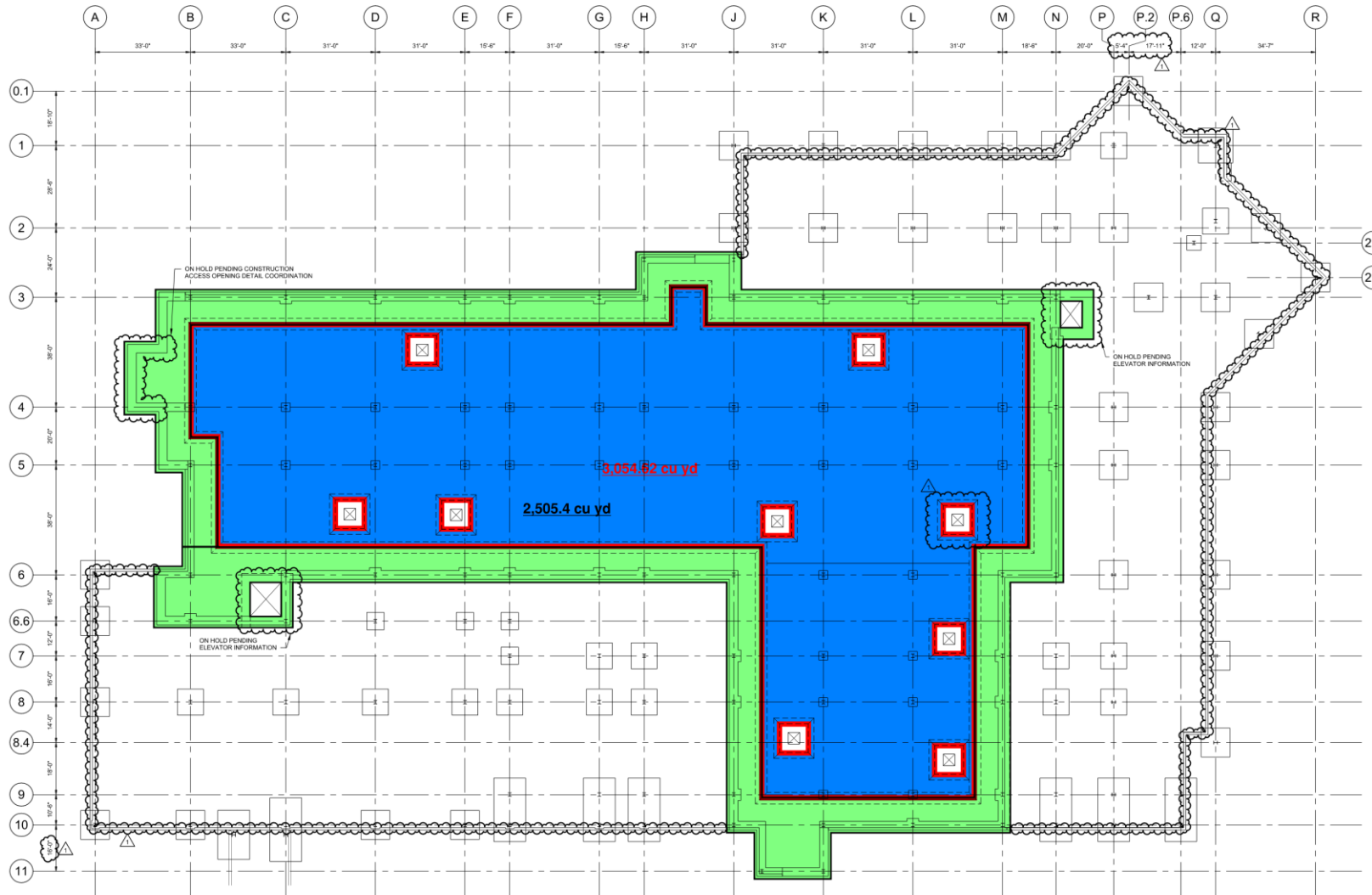
A dual approach to limit pressure and prevent leaking was designed.

Waterproofed Mat Slab & Underdrain system.



1 TYPICAL BASEMENT WALL SECTION
1/2" = 1'-0"

What – LP2 Mat Slab Foundation



GENE THERAPY/HEADBLOCK OVERALL FOUNDATION PLAN

1/16" = 1'-0"

BASEMENT MAT TYPIC EL. 902'-0"
TISPREAD FOOTINGS EL. VARIES - SEE SCHEDULE

5600 Yds of Concrete

5' thickened edges, 3' thick center
Top of Mat Slab at 21' below grade

~40,000 SQFT

To ensure consistent structural integrity a monolithic placement is required by the Engineer Of Record.

How – Single Monolithic Concrete Pour

5600 Total Yards

9.5YD/ Truck

**590 Trucks (42/HR during pour
~14hrs)**

Five Concrete Plants

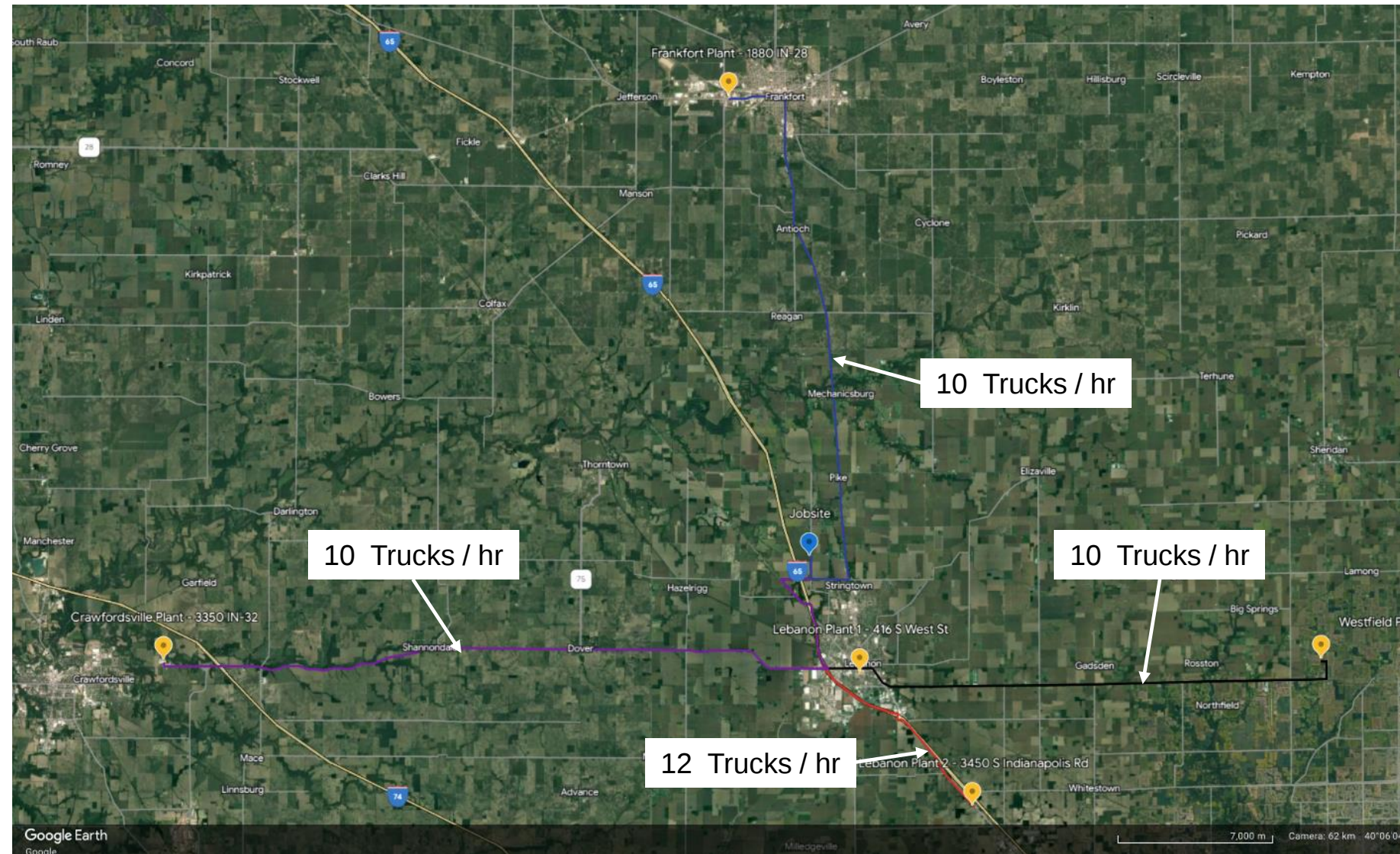
Frankfort

Crawfordsville

Westfield

Whitestown

Lebanon



How – Single Monolithic Concrete Pour - Continued

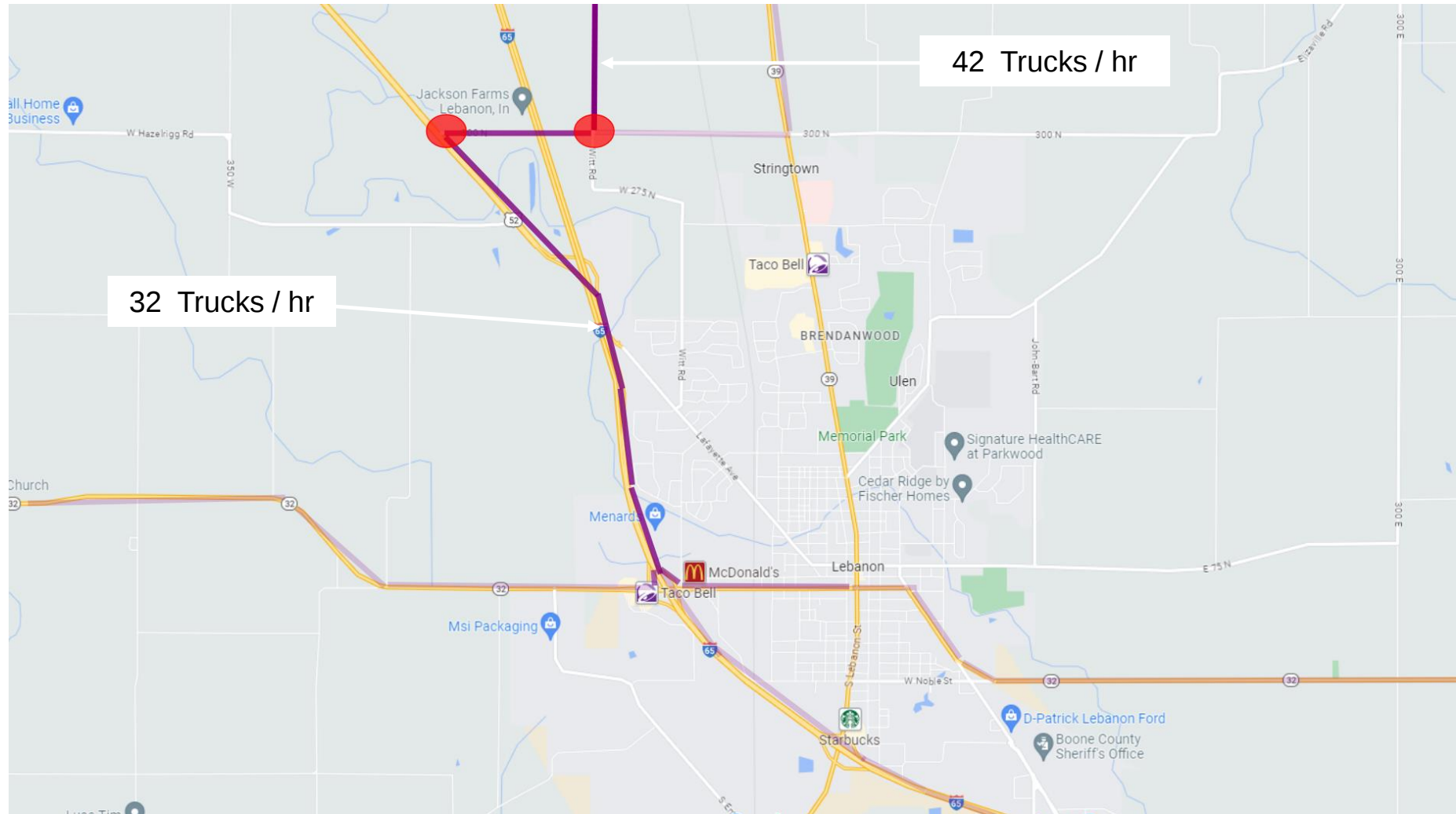
Highest Impact intersections:

300N & 150W – 42 Trucks/HR (IN & OUT)

SR52 & 300N – 34 Trucks/HR (IN & OUT)

Messer will Engage local law Enforcement for off-duty traffic control of the above intersections.

Suggested shut down to local traffic ONLY on 300N between SR52 & SR39 during pour hours (11pm FRI -7pm SAT)



How – Single Monolithic Concrete Pour - Continued

Review of Noise restrictions

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Lebanon - General Offenses

§ 131.20 CONSTRUCTION.

It shall be unlawful for any person within a residential zone, or within a radius of 500 feet therefrom, to operate equipment or perform any outside construction or repair work on buildings, structures or projects or to operate any pile driver, steam shovel, pneumatic hammer, derrick, steam or electric hoist or other construction type device except to perform emergency work, between the hours of 10:00 p.m. of one day and 7:00 a.m. of the next day in a manner that a reasonable person of normal sensitiveness residing in the area is caused discomfort or annoyance.

(Prior Code, § 17-34) (Ord. 73-5, passed 6-11-1973) Penalty, see § 10.99

Higher noise activities: Truck traffic, Pumping Trucks (Consistent ‘Thump’ as the pump pushes concrete), Back Up alarms

Closest Residential property is ~880 FT from closest pump location to corner of private property.

Lebanon ordinance restricts construction noise to 7am-10pm within 500 FT of residential zoned property. LP2 is outside of the 500’ radius. We do not anticipate requesting any variance from city ordinances for this pour.



When – LP2 Mat Slab Foundation

Current Target: October 20th-21st

Friday Evening ~11PM thru Saturday Afternoon ~4PM (16 total Hours of pouring expected)

Workers would begin arriving to the site 2 hours prior to the pour start. Concrete Pump trucks will be set up during this time as well.

Open Discussion



Action Items

