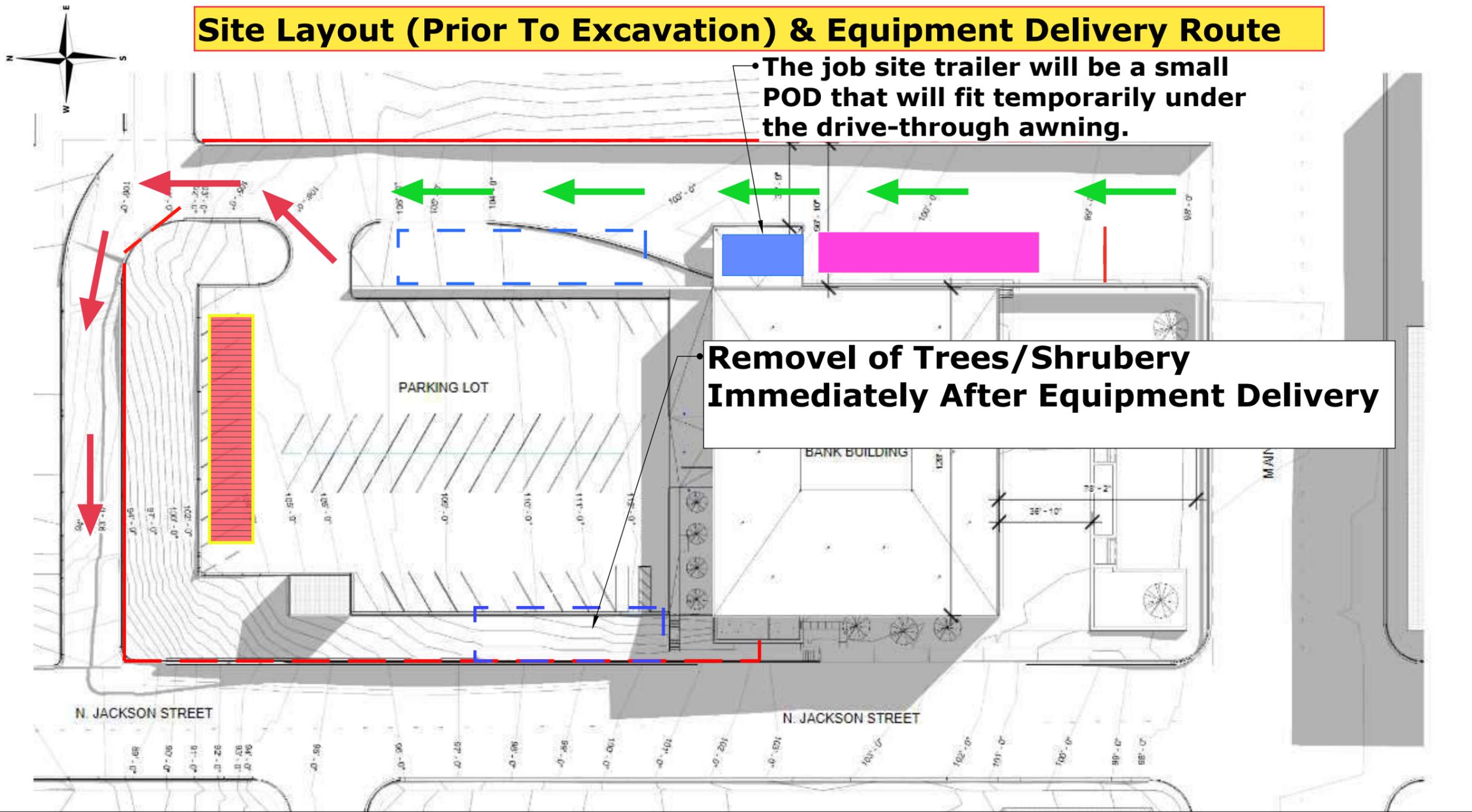


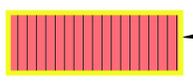
Site Layout (Prior To Excavation) & Equipment Delivery Route



The job site trailer will be a small POD that will fit temporarily under the drive-through awning.

Removal of Trees/Shrubery Immediately After Equipment Delivery

Drawing Key:

-  Construction Fence
-  Equipment Parking for Beginning Excavation
-  GC Parking
-  Entrance Route for Equipment/Excavation Trucks

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**CADENCE BANK
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& RETAIL
ADDITION**

ARCHITECTURE:
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JACOB LINDLEY
ASHLEN DAVIS
BCS:
JACK OLGETREE
BO ALLISON

ASSIGNMENT NUM:
4.0-6.0

DATE:
APRIL 16TH, 2021

**SITE PLANS &
TRANSPORTATION
LOGISTICS**

Page #: 15

Equipment Details

Crane (For Concrete Panels): Telescoping Crawler Crane

Load Capacity: 127 tons
 Gross Vehicle Weight: 263,000 lbs
 Main Boom Length: 170 ft
 Max Tipping Height: 230 ft



Excavator: John Deere 470G

Max Digging Depth: 27 ft - 2 in
 Operating Weight: 112,916 lbs
 Digging Reach: 41 ft
 Dig Height 36 ft - 7 in
 Dump Height: 25 ft - 6 in
 Tail Swing Radius: 12 ft
 Transport Length: 39 ft - 5 in
 Transport Height: 14 ft - 11 in
 Undercarriage Width: 10 ft - 10 in
 Undercarriage Length: 17 ft - 11 in
 Standard Dipper: 12 ft - 10 in



LOAD RATINGS IN LBS. WITH OUTRIGGERS EXTENDED											AREA OF OPERATION		
OPERATING RADIUS	27 FT		34 FT		43 FT		52 FT		61 FT		70 FT	DO NOT OPERATE IN THIS AREA WITHOUT PERSONAL FRONT STABILIZER	
	BOOM LENGTH	LOADED BOOM ANGLE											
5	77	36000*										DEDUCTIONS FROM RATED LOADS FOR HANDLING DEVICES: OVERHAUL BALL: 125 LBS. 1 SHEAVE LOAD BLOCK 200 LBS. 2 SHEAVE LOAD BLOCK 230 LBS. AUX. SHEAVE 50 LBS. BOOM RETRACT LOAD STOWED JIB DEDUCTION	
10	66	21100*	71	17100*	75	16000*	78	15700*					
15	54	15100*	62	14000*	68	12100*	72	11100*	75	10800*	77		9600*
20	39	11100*	51	10100*	61	9100*	66	8600*	71	8200*	73		7300*
25	17	7900*	40	7700*	53	7100*	61	6900*	66	6600*	69		5900*
30			23	6500*	44	6100*	54	5600*	60	5300*	64		4900*
35					33	4800	47	4700	54	4600*	60		4150*
40					16	3500	38	4100	48	3900	55		3550
45							27	3250	41	3200	49		3050
50							9	2950	33	2800	44		2650
55									23	2500	37		2350
60											29		1900
65											19		1700
	0	7000	0	5000	0	3000	0	2400	0	2000	0		1400
	450		360		260		230		200		175		

JIB CAPACITIES FOR ALL BOOM LENGTHS
 VERIFY OPERATIONAL MODE SETTING ON LMI DISPLAY BEFORE LIFTING WITH JIB!

LOADED BOOM ANGLE	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
RETRACTED 24 FT. JIB	700	825	1000	1150	1340	1600	1900	2300	3100	4160
EXTENDED 40 FT. JIB	520	580	650	730	810	930	1080	1400	1810	2260

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**SITE PLANS &
TRANSPORTATION
LOGISTICS**

Page #: 15

**Crane(Precast Components):
Lattice Boom Crawler Crane**

Load Capacity: 400 tons
Crane Model: CC 2400-1
Max Main Boom Length: 413 ft
Max Tipping Height: 551 ft



Telescopic Boom Lift:

Lifting Range: 185 ft
Max Platform Weight: 1,000 lbs



Dozer: CAT D6 XE

Operating Weight: 53,333 lbs
Blade Capacity: 7.5 cu. yds.



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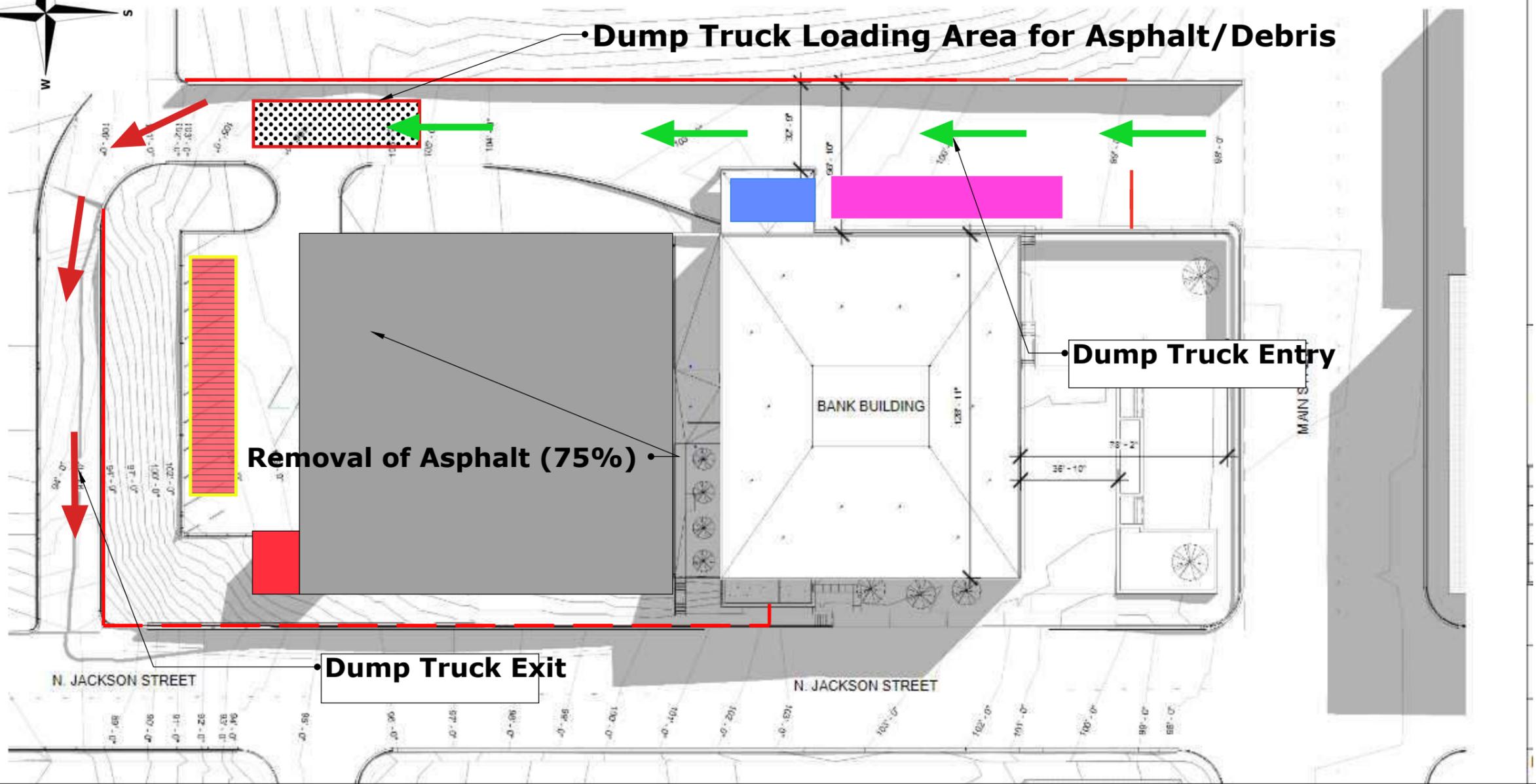
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**SITE PLANS &
TRANSPORTATION
LOGISTICS**

Asphalt Removal 75% Complete/Cooling Tower Demolished



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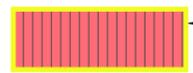
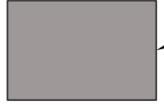
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**SITE PLANS &
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LOGISTICS**

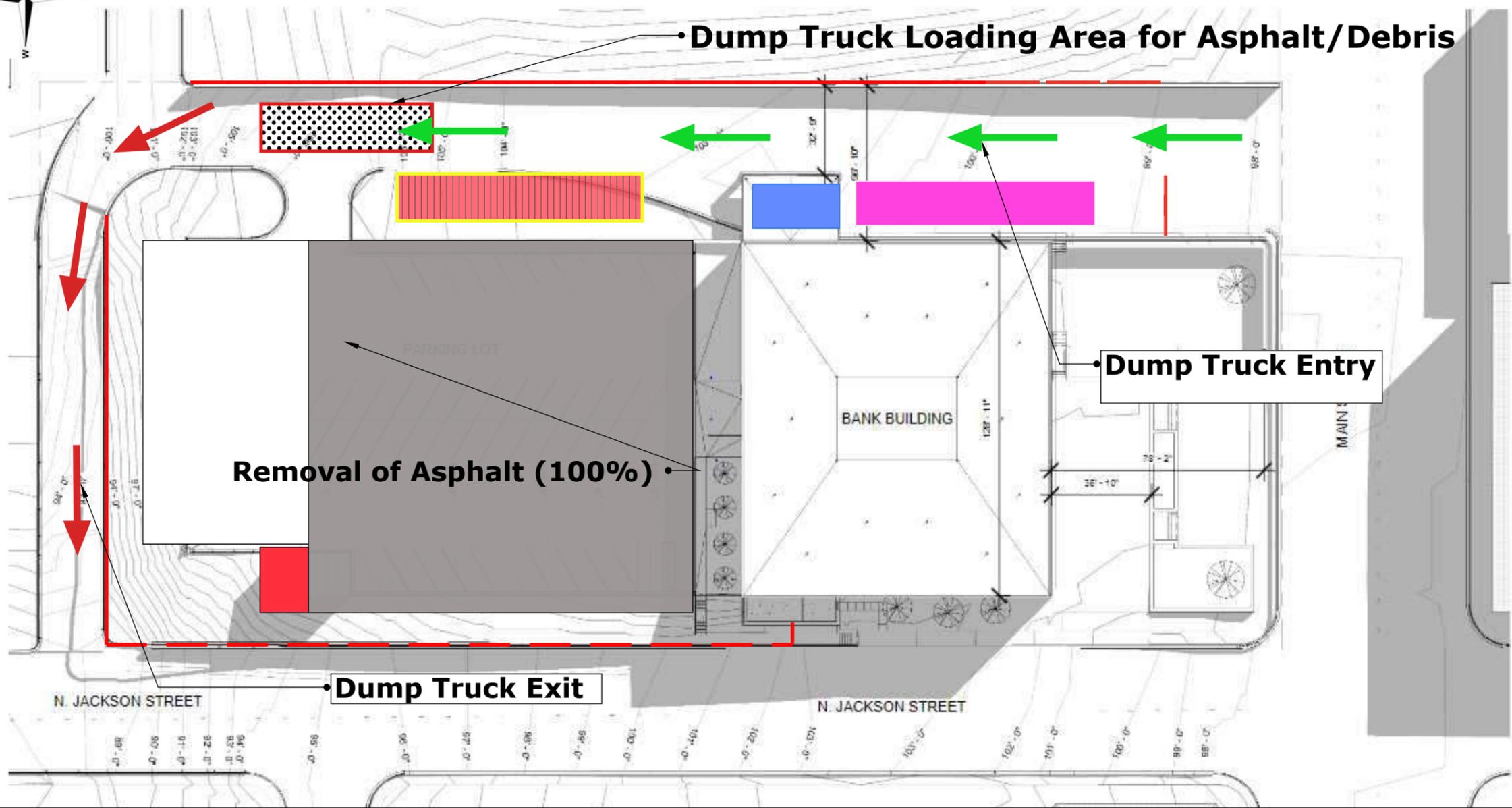
Page #: **15**

Drawing Key:

-  • Job Site Trailer
-  • Equipment Parking for Beginning Excavation
-  • GC Parking
-  • Cooling Tower
-  • Existing Asphalt



Asphalt Removal Complete



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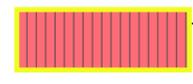
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SITE PLANS & TRANSPORTATION LOGISTICS

Drawing Key:



• Job Site Trailer



• Equipment Parking for Beginning Excavation



• GC Parking

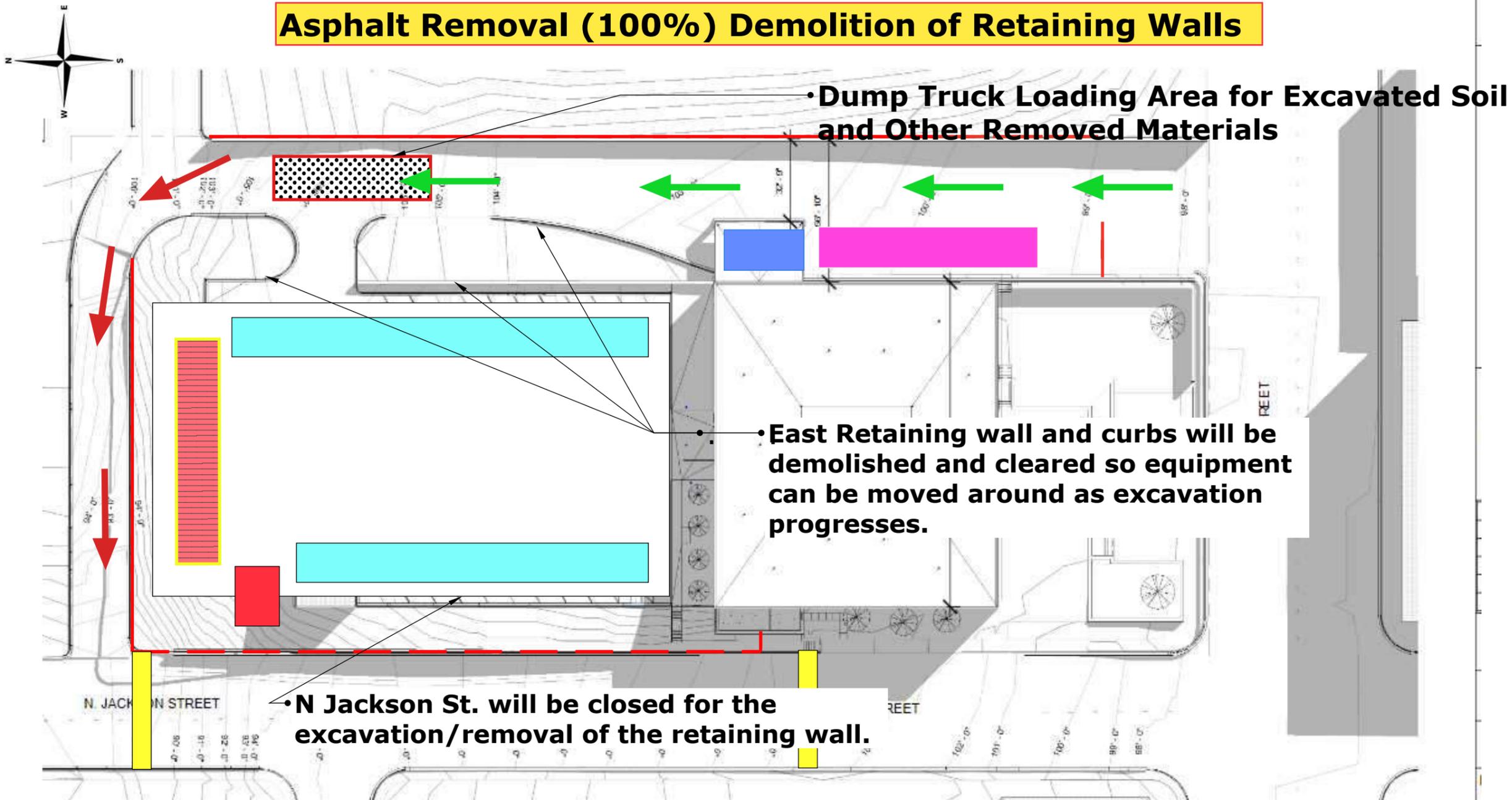


• Cooling Tower



• Existing Asphalt

Asphalt Removal (100%) Demolition of Retaining Walls



Drawing Key:



• Job Site Trailer



• Equipment Parking



• GC Parking



• Excavator Lanes



• Cooling Tower



• Temporary Road Closure (2 Days)

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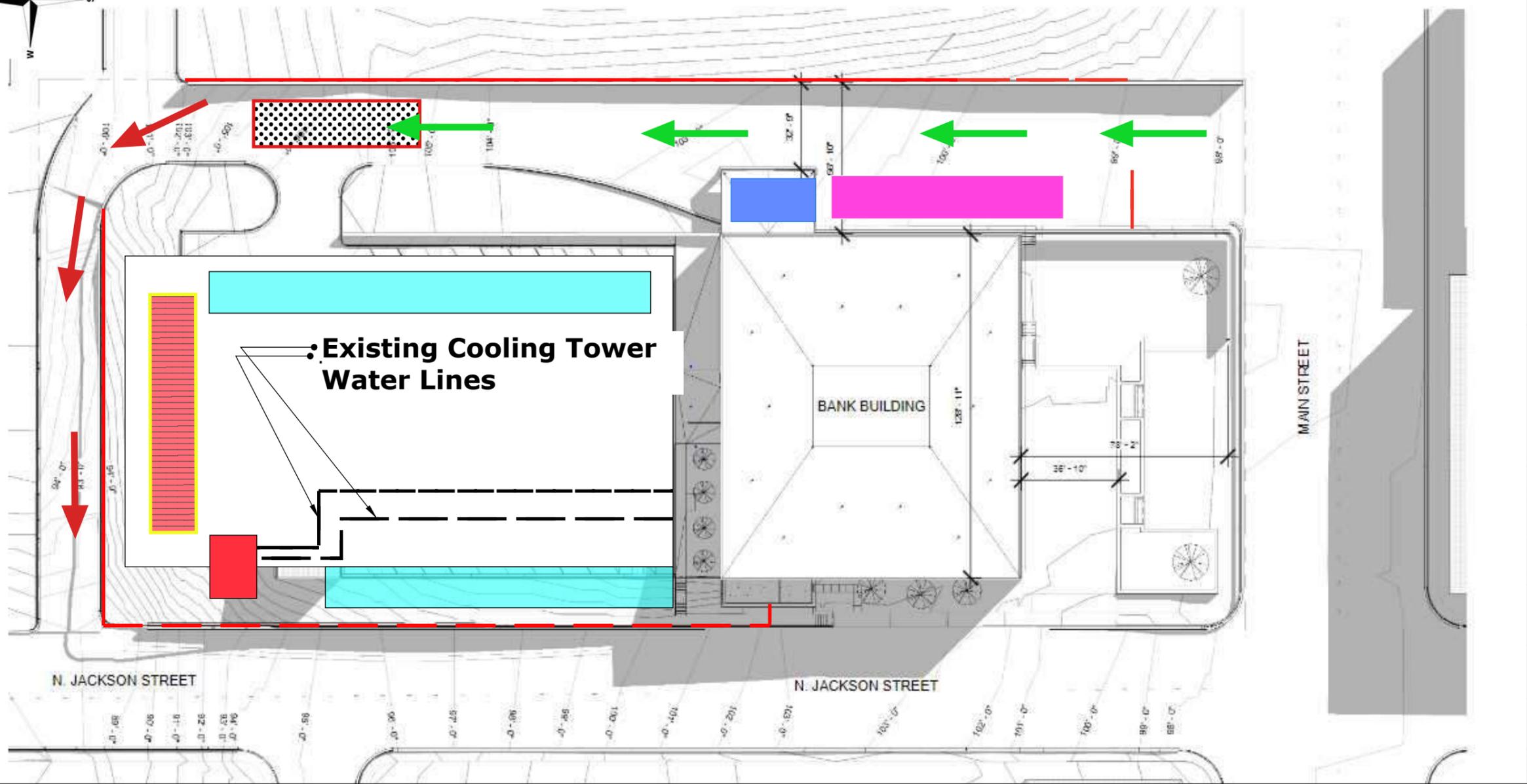
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**SITE PLANS &
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Excavation/Removal of Existing Cooling Tower Components



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**SITE PLANS &
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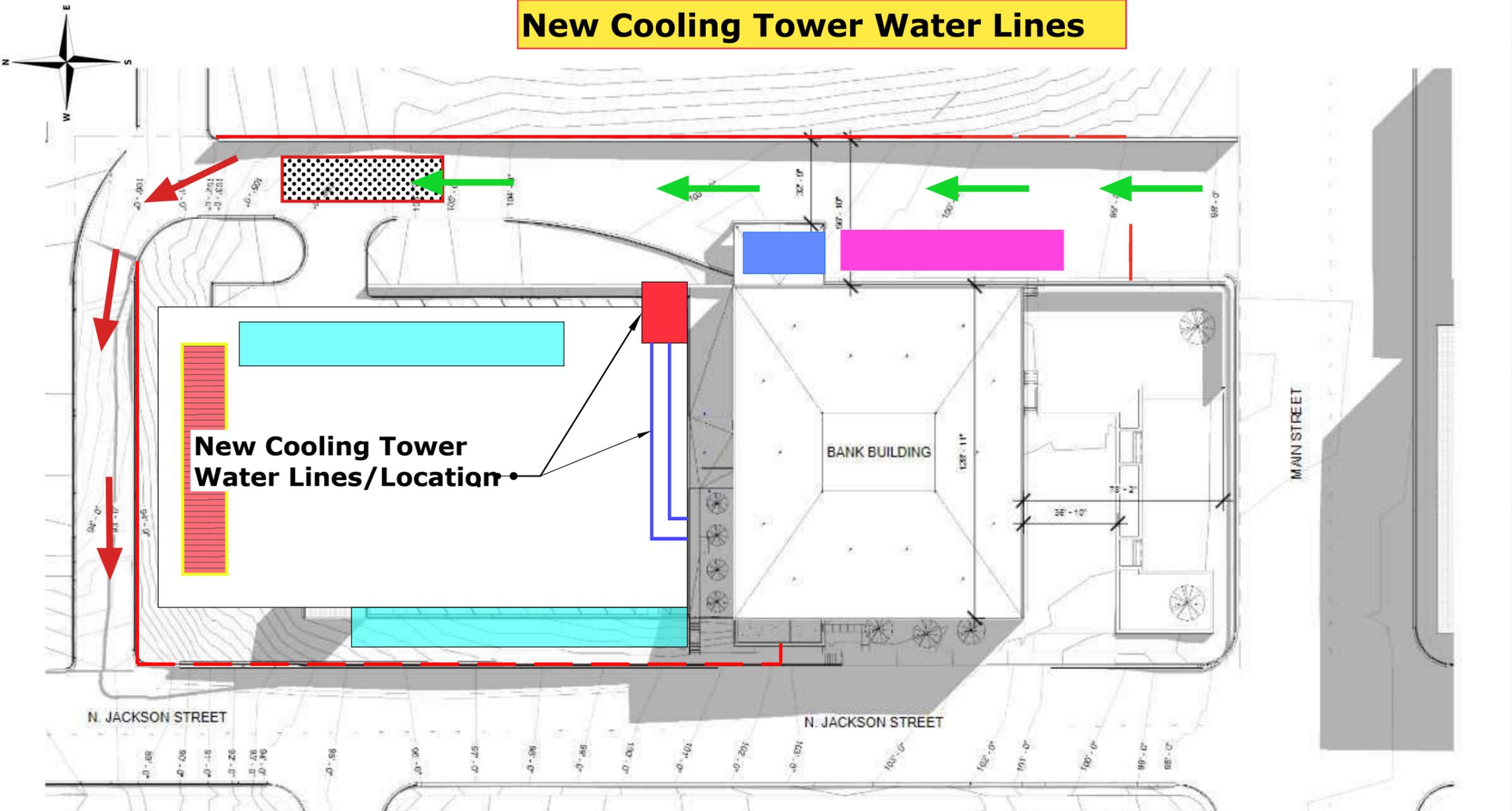
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Drawing Key:

-  • Job Site Trailer
-  • Equipment Parking
-  • GC Parking
-  • Excavator Lanes

 • Cooling Tower

New Cooling Tower Water Lines



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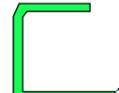
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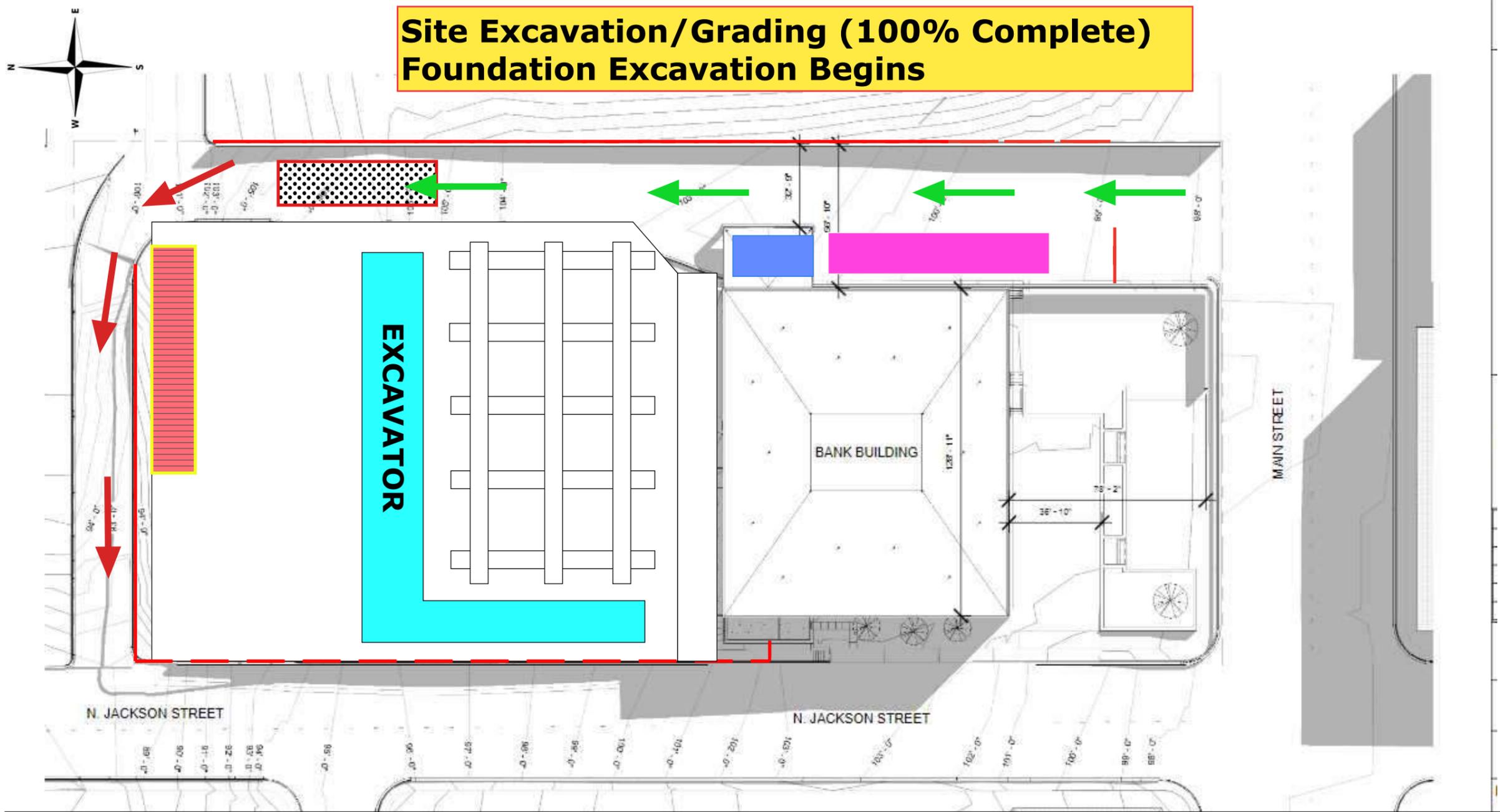
Page #: **15**

Drawing Key:

-  • Job Site Office POD
-  • Equipment Parking
-  • GC Parking
-  • Excavator Lanes

-  • Loading Area
-  • Excavator Travel Space
-  • Crane Travel Space
-  • Cooling Tower

**Site Excavation/Grading (100% Complete)
Foundation Excavation Begins**



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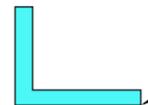
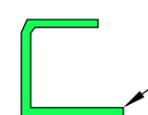
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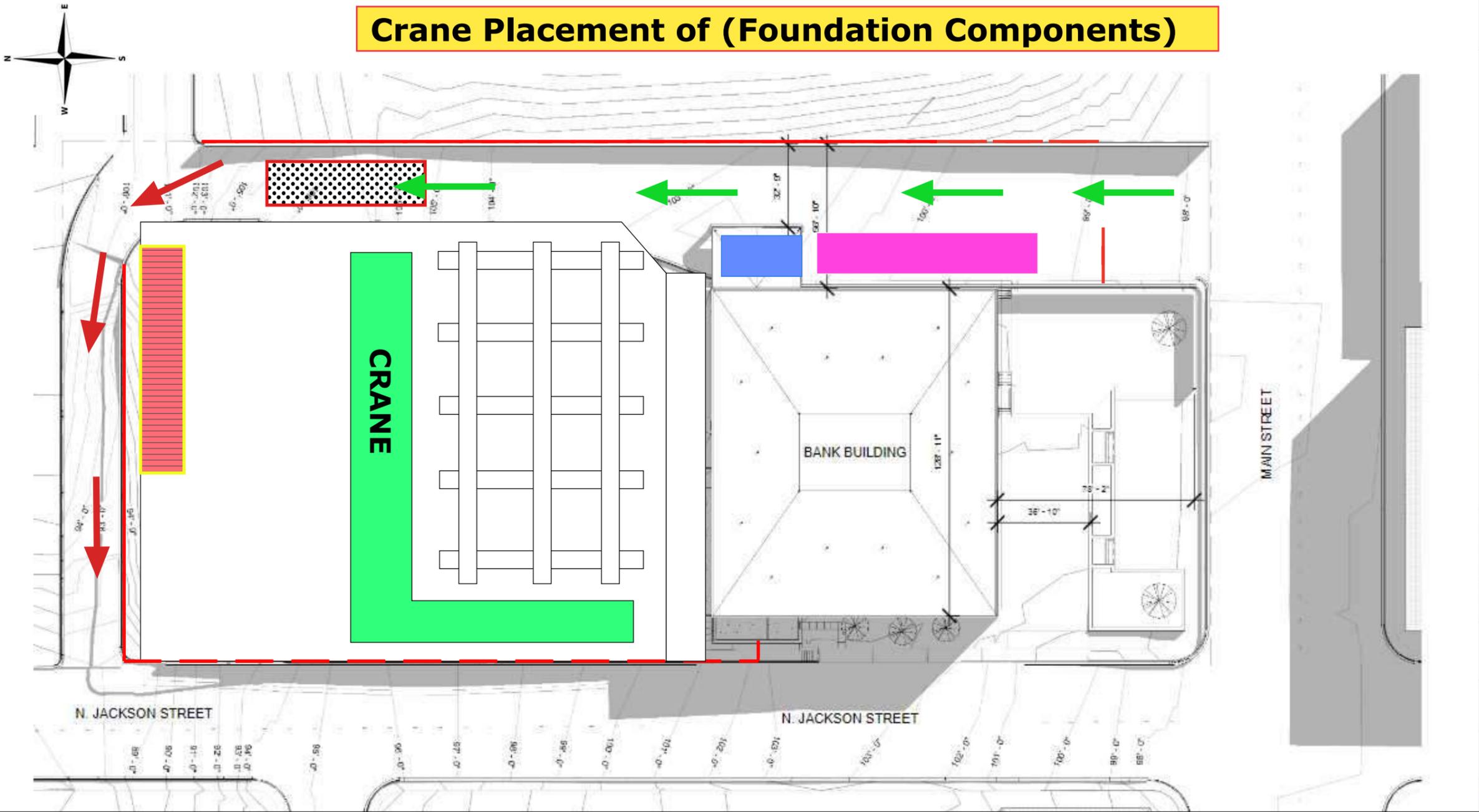
**SITE PLANS &
TRANSPORTATION
LOGISTICS**

Drawing Key:

-  • Job Site Office POD
-  • Equipment Parking
-  • GC Parking

-  • Loading Area
-  • Excavator Travel Space
-  • Crane Travel Space

Crane Placement of (Foundation Components)



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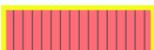
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**SITE PLANS &
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LOGISTICS**

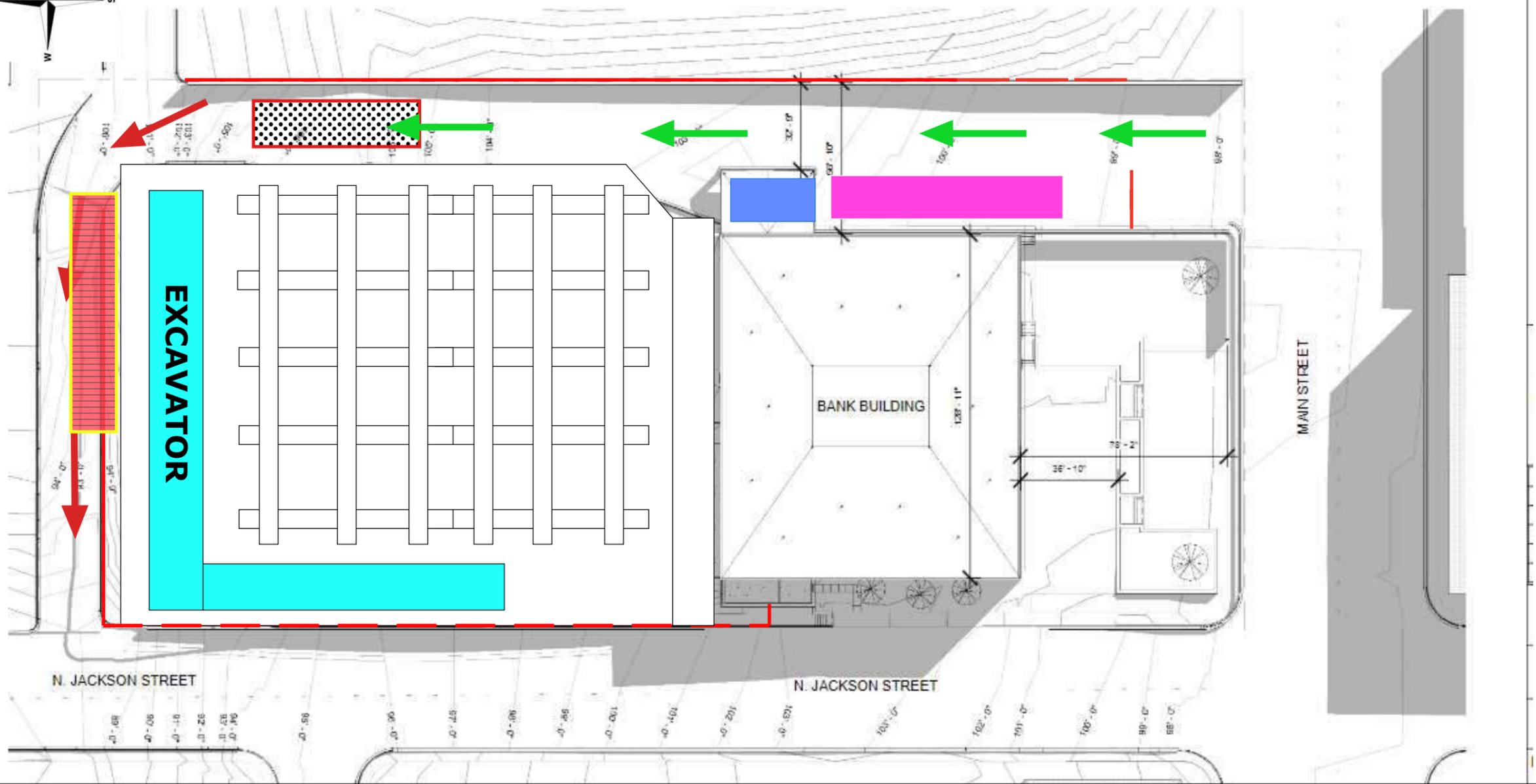
Page #: **15**

Drawing Key:

-  • Job Site Office POD
-  • Equipment Parking
-  • GC Parking

-  • Loading Area
-  • Excavator Travel Space
-  • Crane Travel Space

Foundation Excavation (75% Complete)



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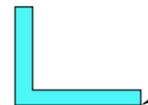
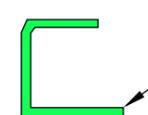
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**SITE PLANS &
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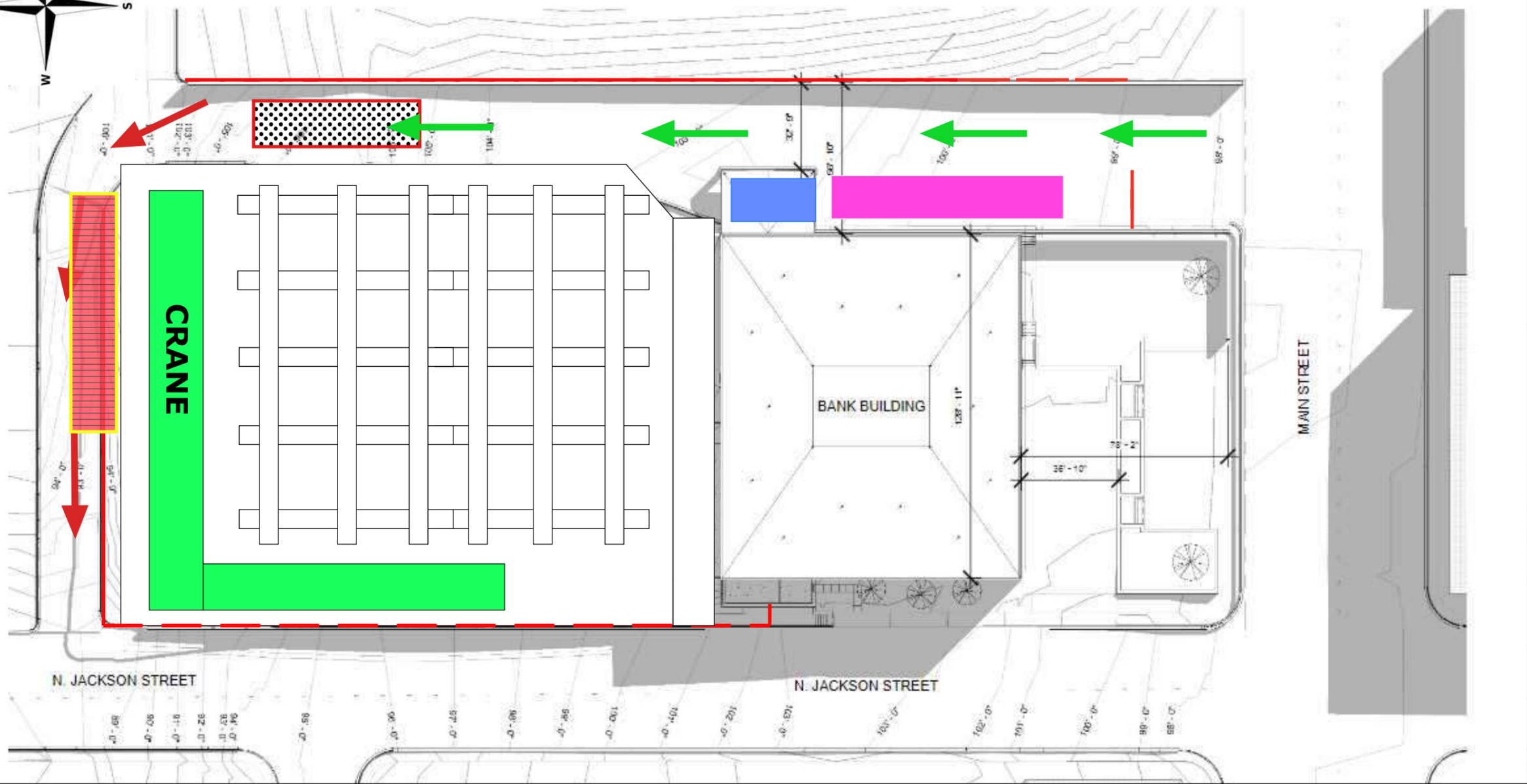
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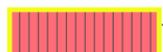
-  • Job Site Office POD
-  • Equipment Parking
-  • GC Parking

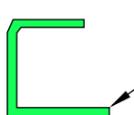
-  • Loading Area
-  • Excavator Travel Space
-  • Crane Travel Space

Crane Placement of (Foundation Components)



Drawing Key:

-  • Job Site Office POD
-  • Equipment Parking
-  • GC Parking

-  • Loading Area
-  • Excavator Travel Space
-  • Crane Travel Space

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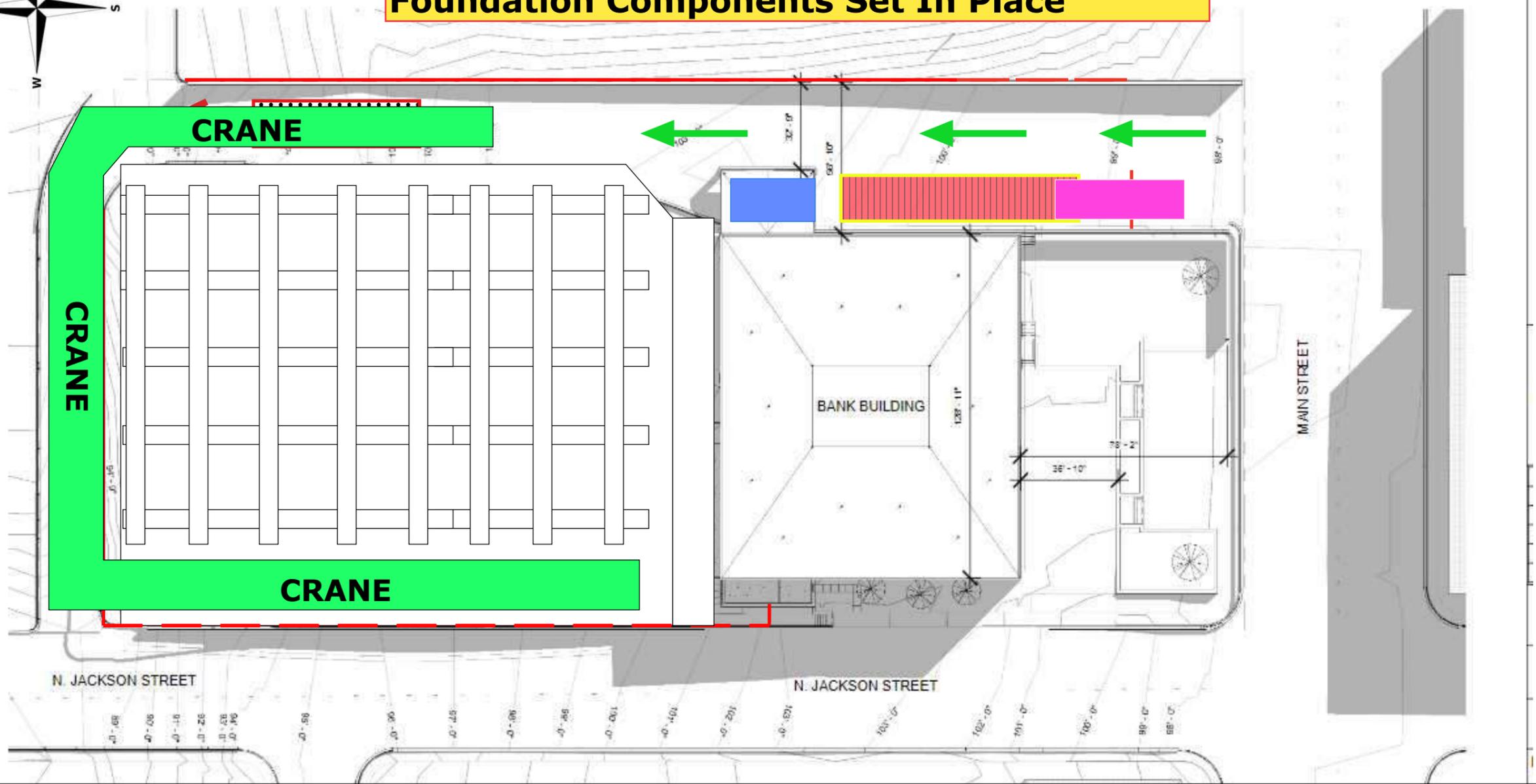
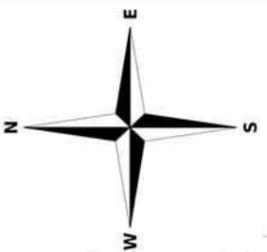
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**SITE PLANS &
TRANSPORTATION
LOGISTICS**

**Foundation Excavation (100% Complete)
Foundation Components Set In Place**



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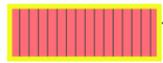
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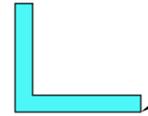
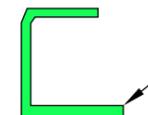
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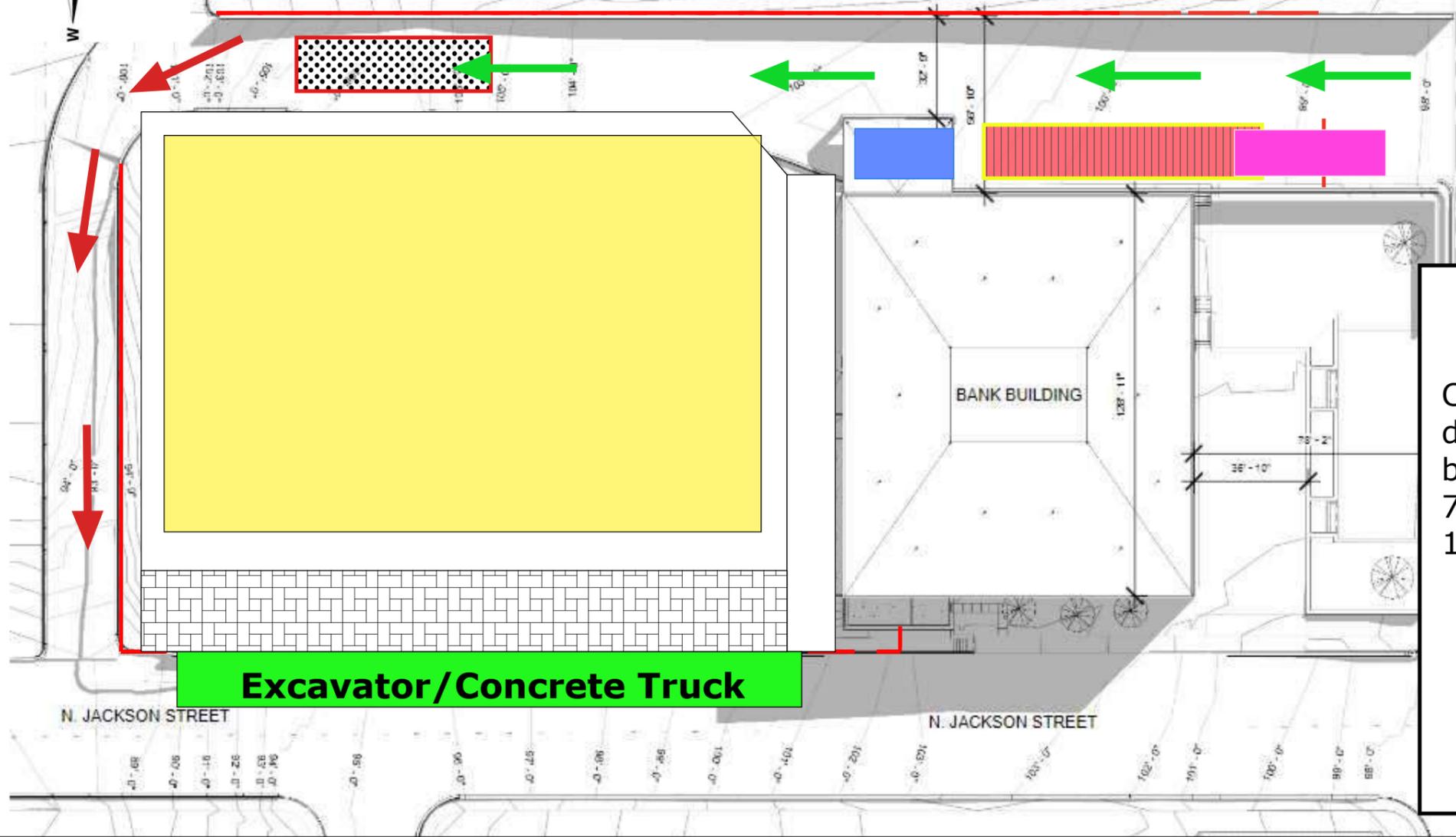
Drawing Key:

-  • Job Site Office POD
-  • Equipment Parking
-  • GC Parking

-  • Loading Area
-  • Excavator Travel Space
-  • Crane Travel Space



Excavation/Slabs Poured for Retail Space(Wednesday 5-19-21)



General Notes

Concrete trucks will deliver concrete between 7:00am-9:00am and 1:00pm-3:00pm

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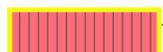
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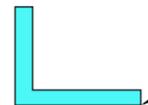
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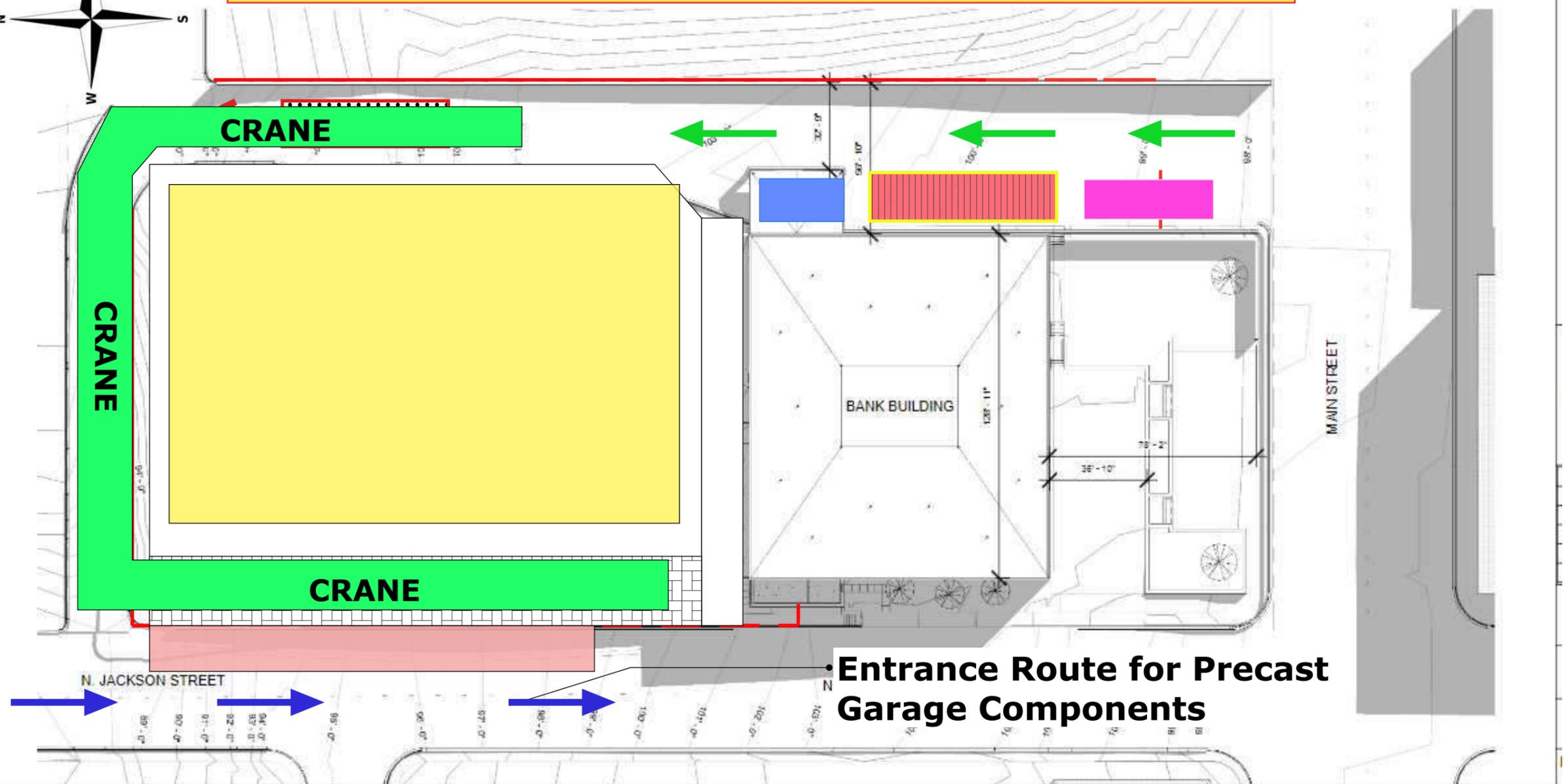
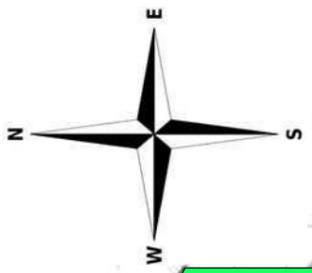
SITE PLANS & TRANSPORTATION LOGISTICS

Drawing Key:

-  • Job Site Office POD
-  • Equipment Parking
-  • GC Parking
-  • Retail Concrete Slab Area

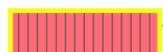
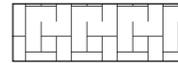
-  • Loading Area
-  • Excavator Travel Space
-  • Crane Travel Space
-  • Parking Structure

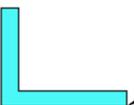
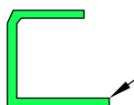
Parking Structure Precast Components Begin Installation



Entrance Route for Precast Garage Components

Drawing Key:

-  Job Site Office POD
-  Equipment Parking
-  GC Parking
-  Retail Concrete Slab Area

-  Loading Area
-  Excavator Travel Space
-  Crane Travel Space Lattice Boom Crawler (See Pg. 3)
-  Parking Structure
-  Unloading Zone for Precast Components

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SITE PLANS & TRANSPORTATION LOGISTICS

Hauling Route from Storage Site to Job Site



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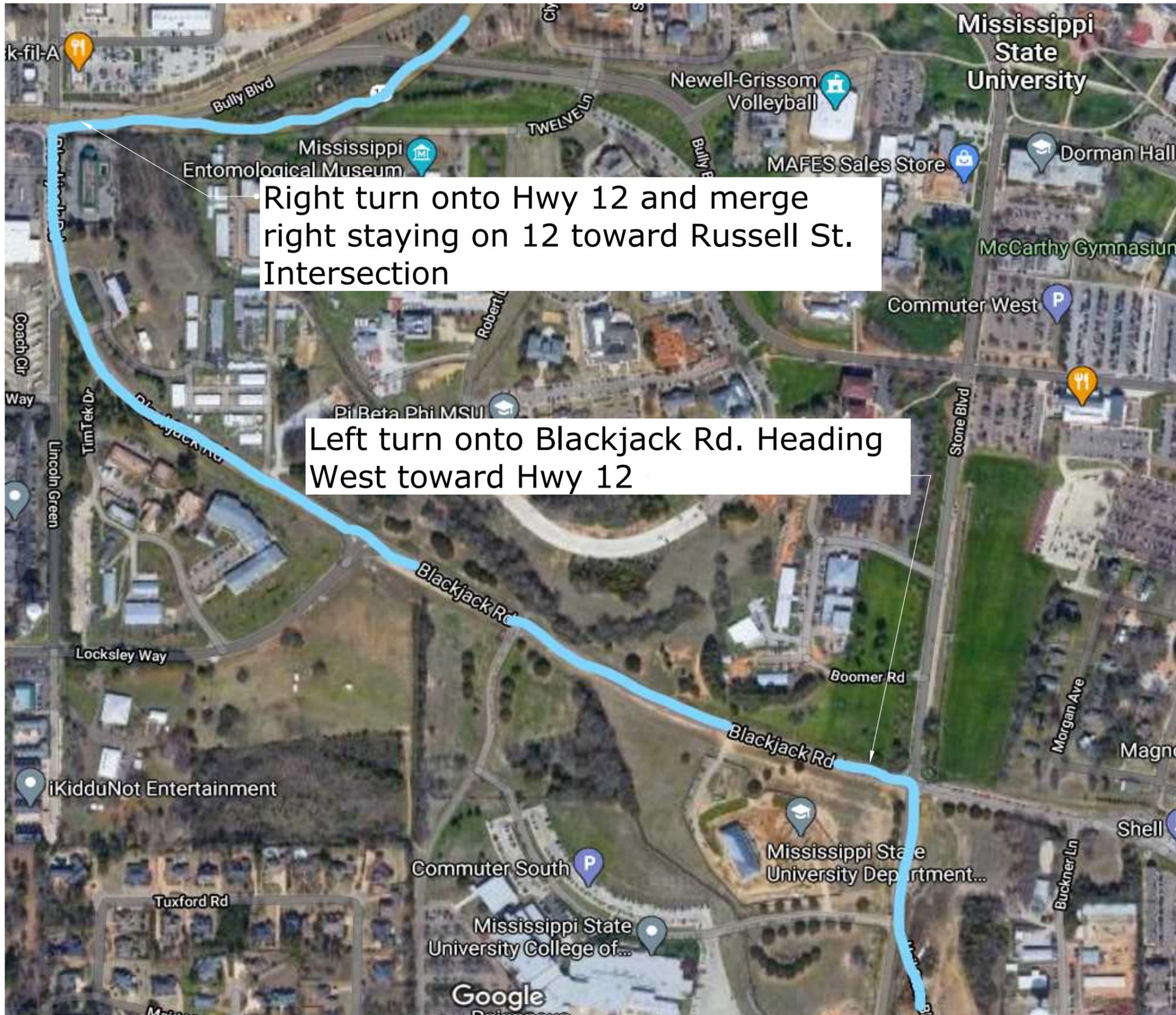
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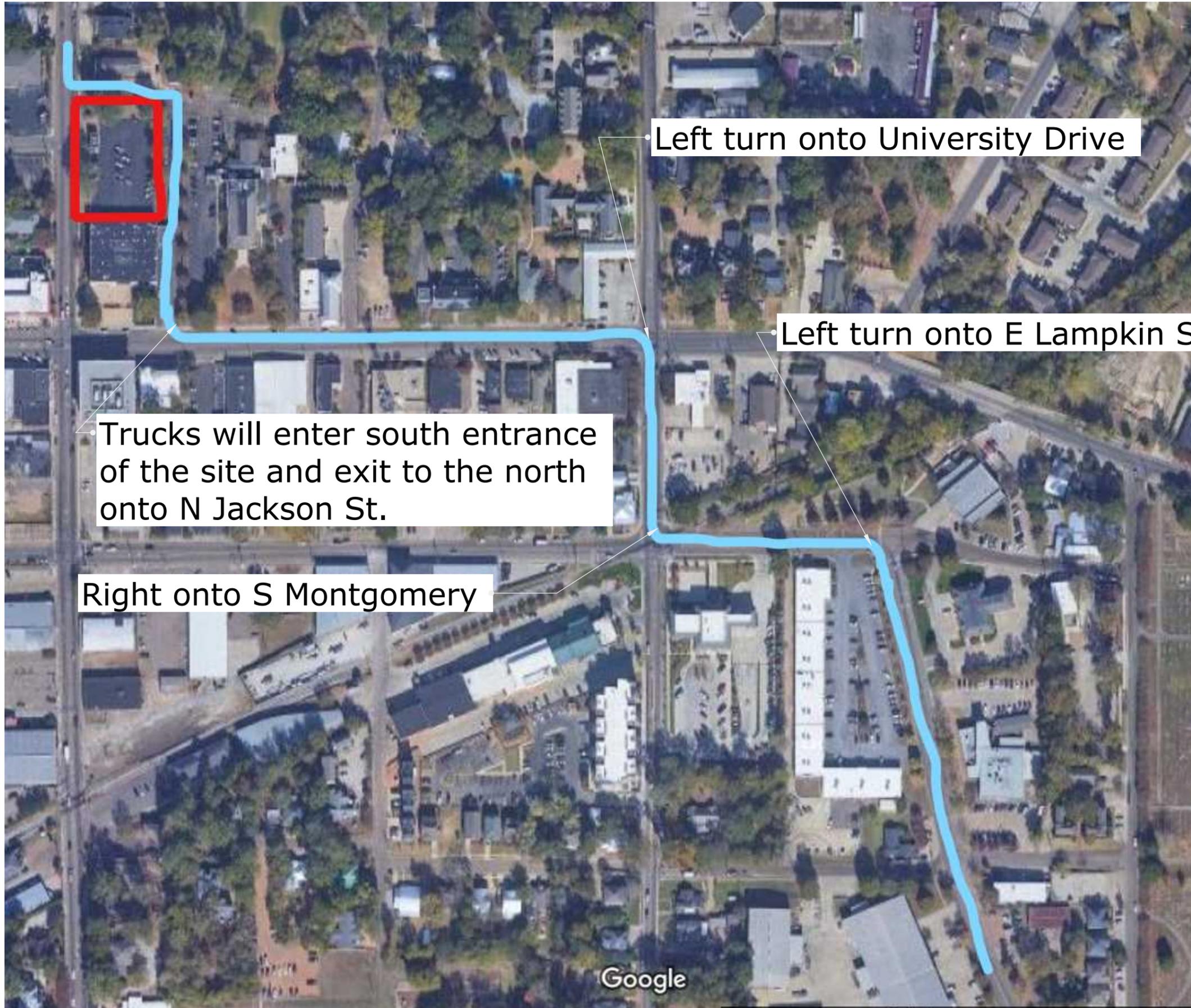
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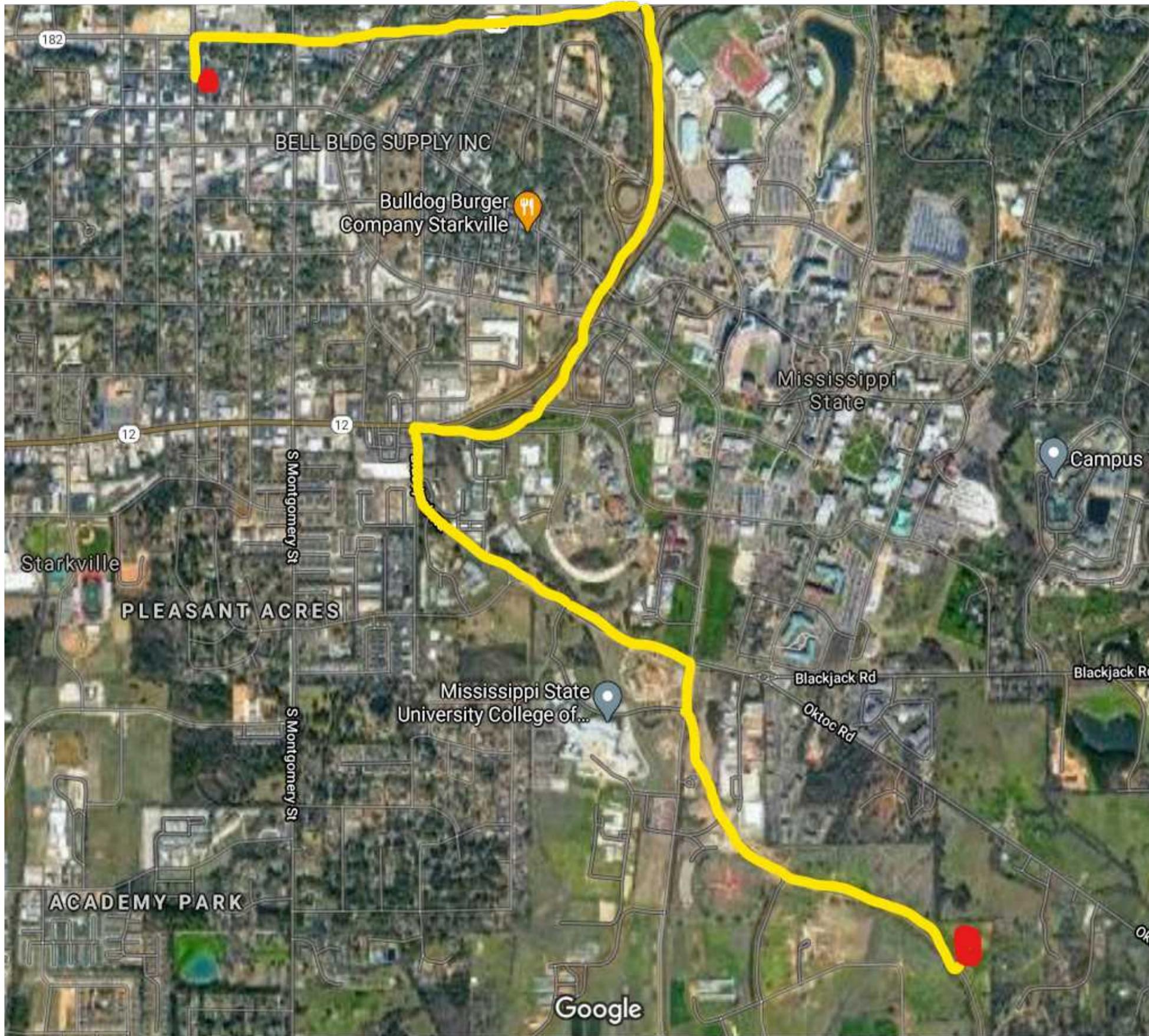
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BO ALLISON

ASSIGNMENT NUM:
4.0-6.0

DATE:
APRIL 16TH, 2021

**SITE PLANS &
TRANSPORTATION
LOGISTICS**

Alternative Route for Any Loads Exceeding 40ft in Length



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Truck Hauling Schedule

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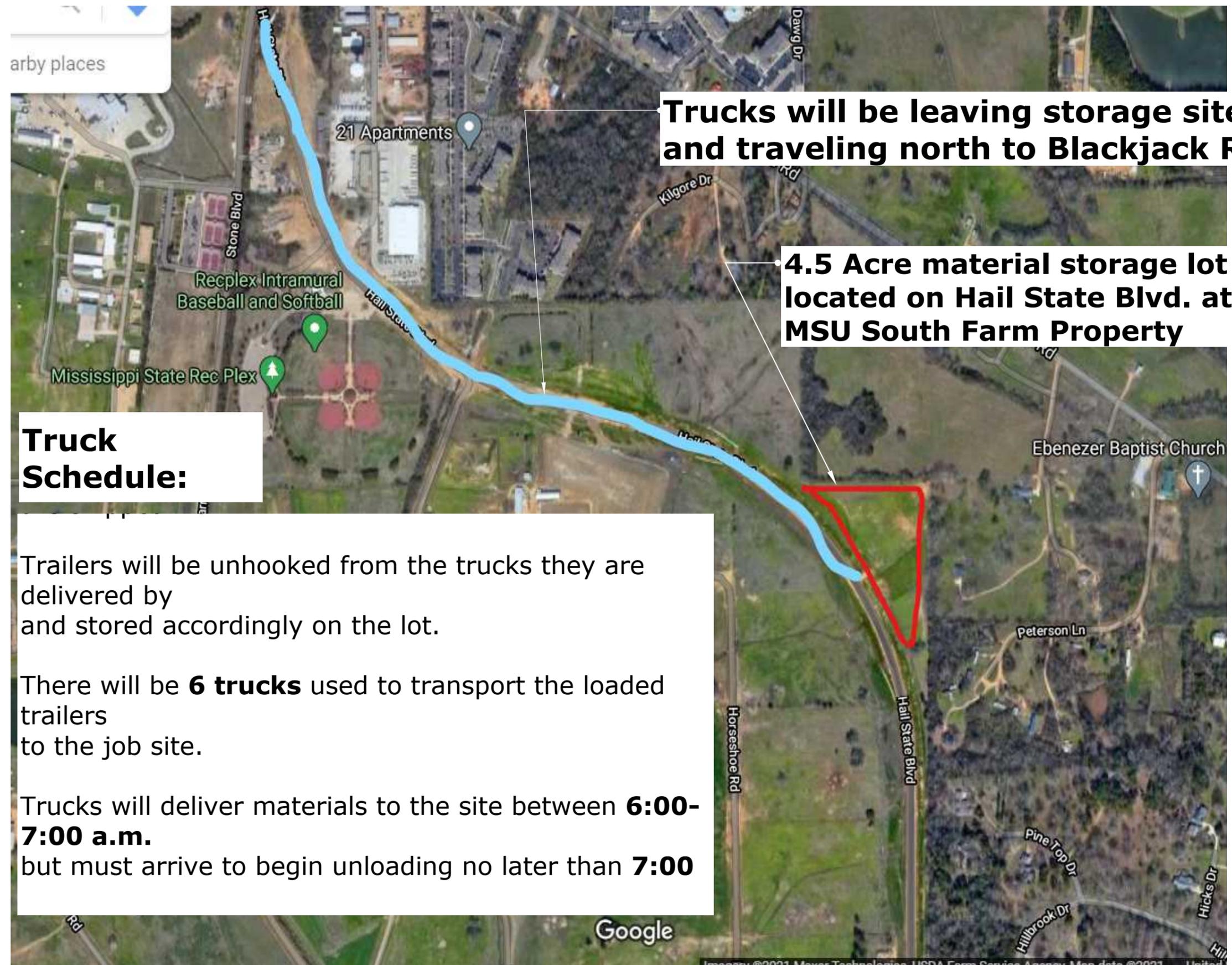
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Trucks will be leaving storage site and traveling north to Blackjack Rd.

4.5 Acre material storage lot located on Hail State Blvd. at MSU South Farm Property

Truck Schedule:

Trailers will be unhooked from the trucks they are delivered by and stored accordingly on the lot.

There will be **6 trucks** used to transport the loaded trailers to the job site.

Trucks will deliver materials to the site between **6:00-7:00 a.m.** but must arrive to begin unloading no later than **7:00**

Storage Site Layout



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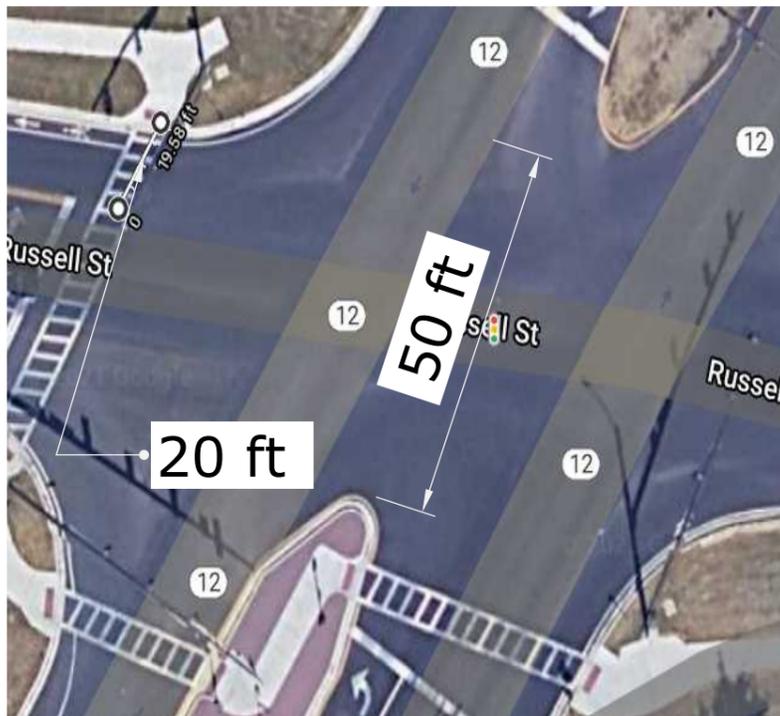
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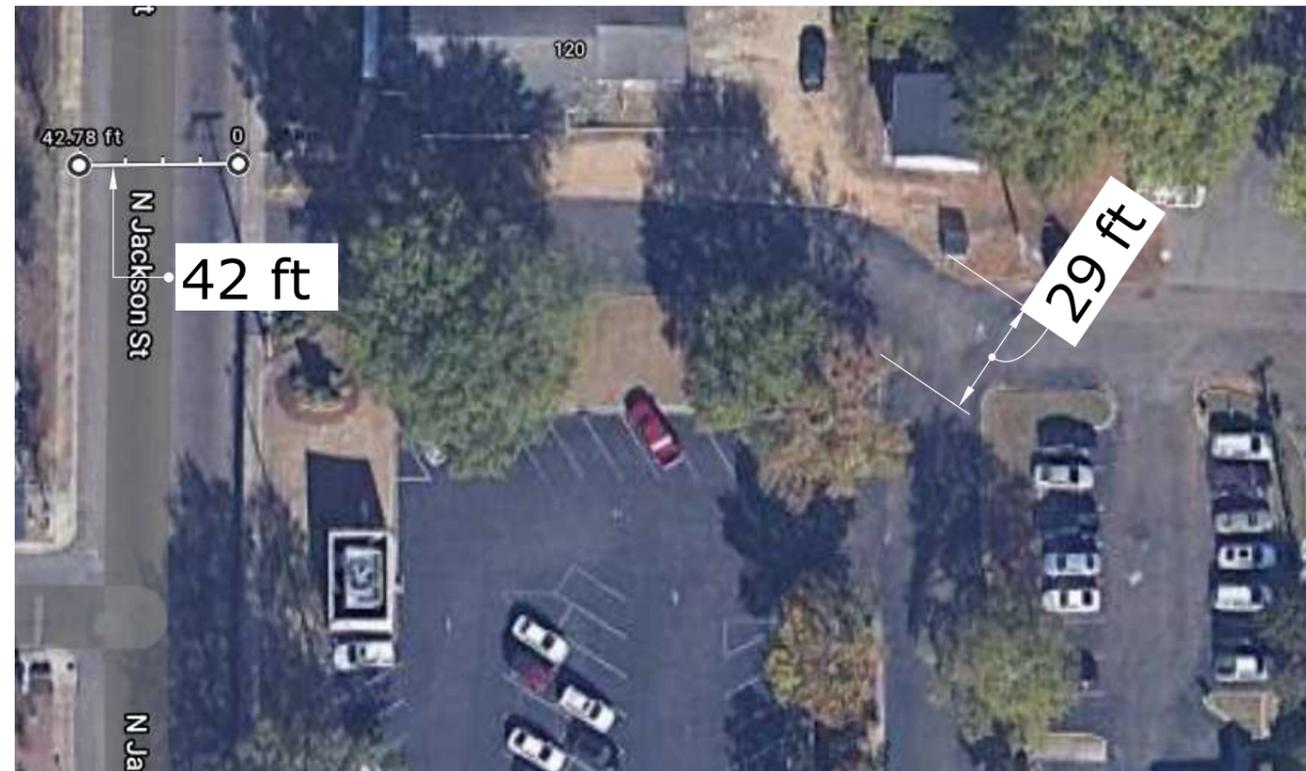
**SITE PLANS &
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Road Widths of Turns on Transport Route:



Road Widths of Turns on Transport Route:



Panel Transportation:



40 ft Trailers



With each full sized panel being 12'-6"x4'-6" each trailer will be capable of hauling 12 panels.

320 Panels total = 27 Trailer Loads

Weight Per Panel: 2,600 lbs

Total Weight per Truck Load: 31,200 lbs

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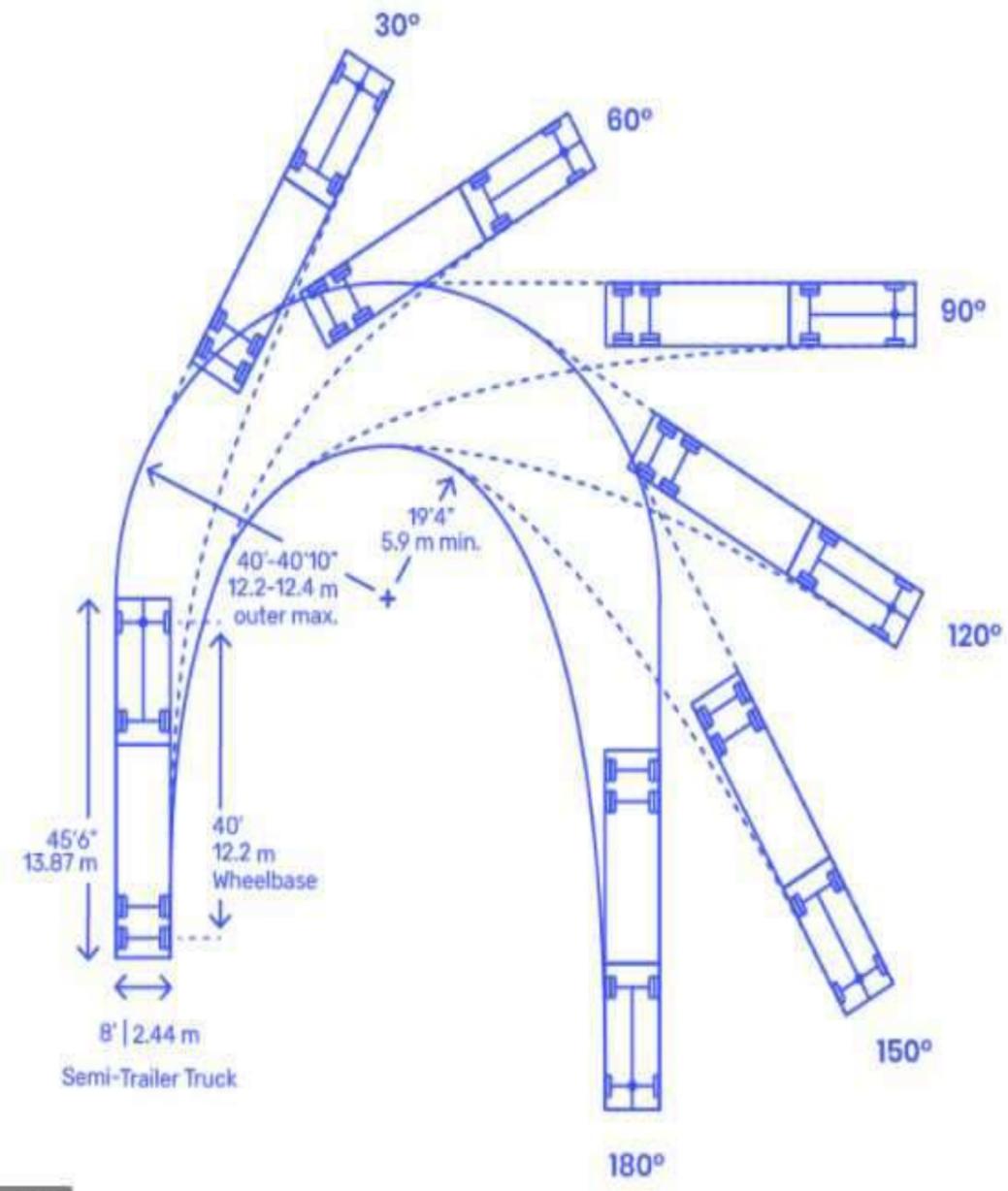
**SITE PLANS &
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Turning Radii for Panel Transportation Trailers:

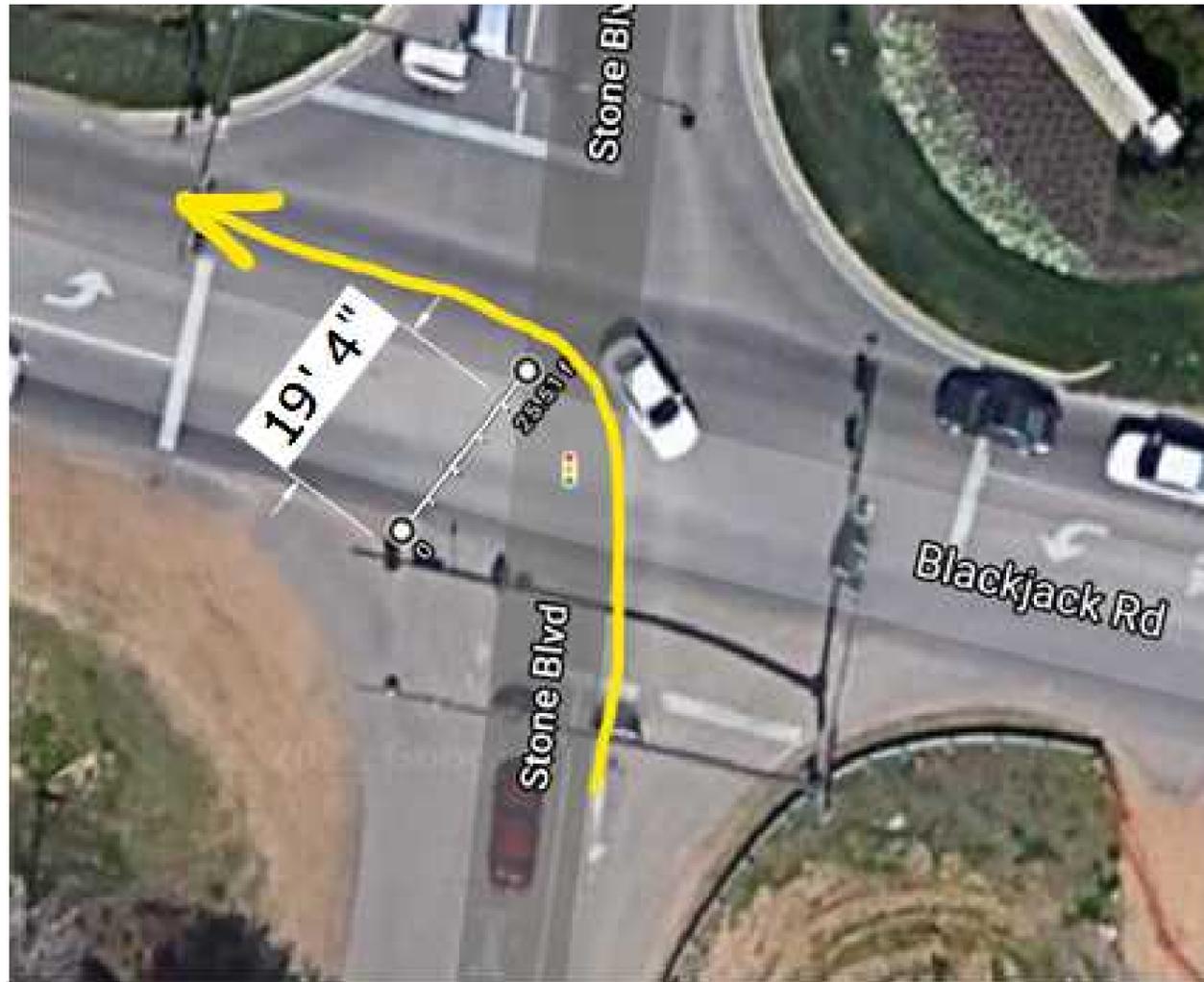
Dimensions.Guide
Semi-Trailer Truck (40' WB) Turning Paths

The 40ft hauling trailer that will be transporting the precast panels needs a minimum turning space of 19'-4". Each hauling truck will have a spotter traveling in front of them when on route to the site with a load of panels.



The trucks hauling the precast components for the garage will have to have a pilot car escorting the delivery to the job site.

Turning Radii for Panel Transportation Trailers:

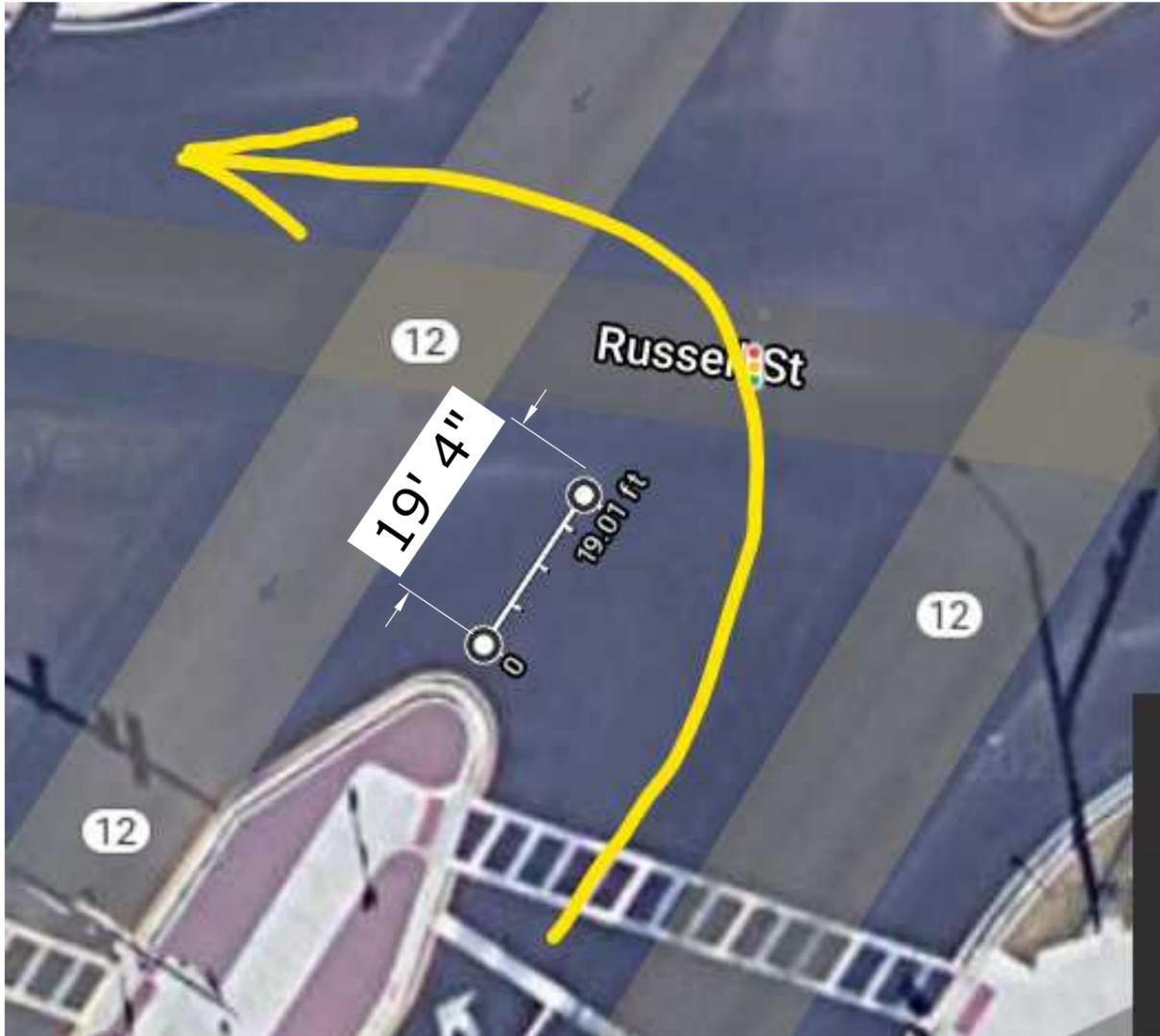


Turn 1 (Onto Blackjack Rd to Hwy 12)



Turn 2 (Onto Hwy 12 to Russel St)

Turning Radii for Panel Transportation Trailers:



Turn 3 (Onto Russel St to E Lampkin)

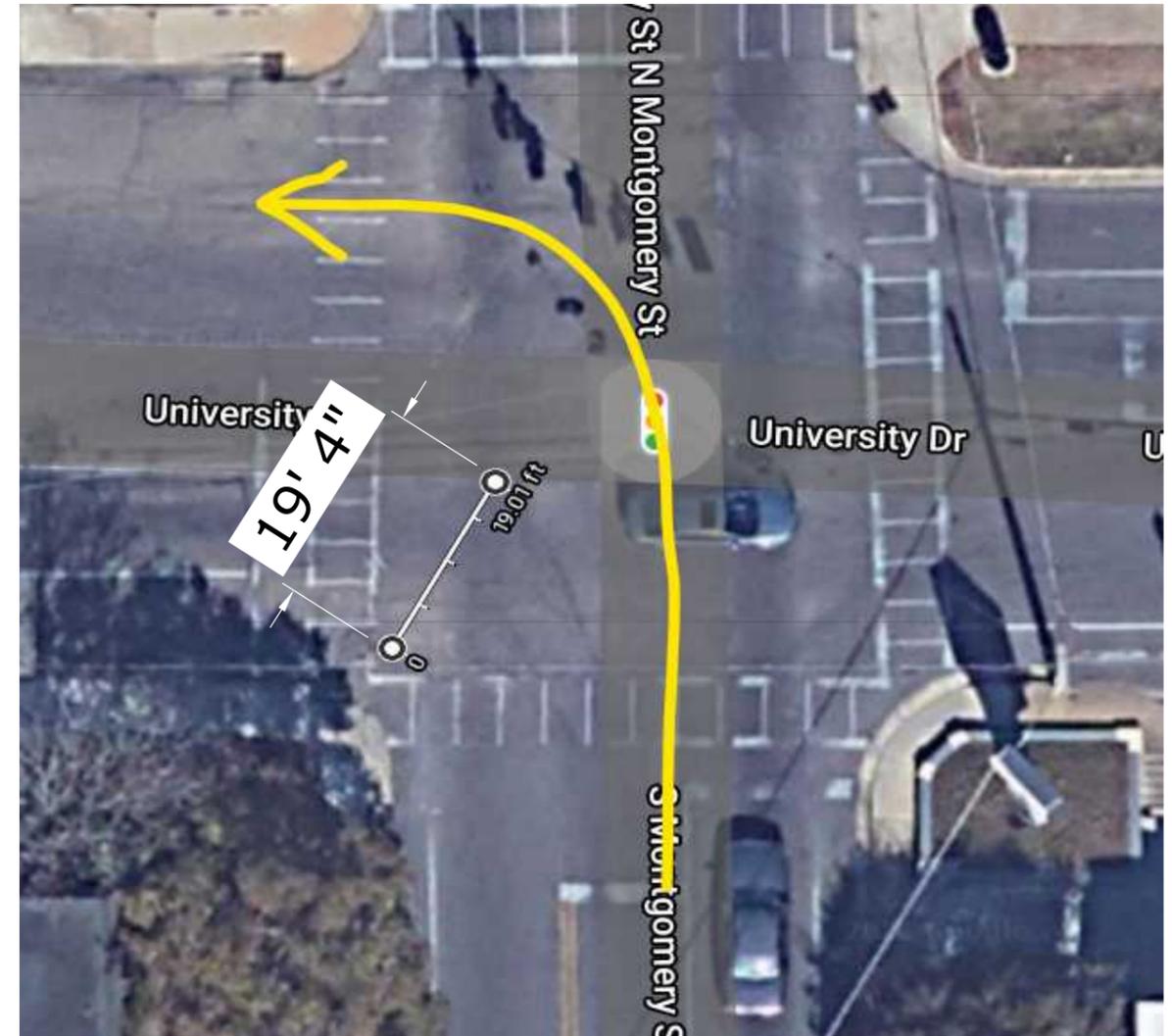


Turn 4 (Onto E Lampkin to S Montgomery)

Turning Radii for Panel Transportation Trailers:

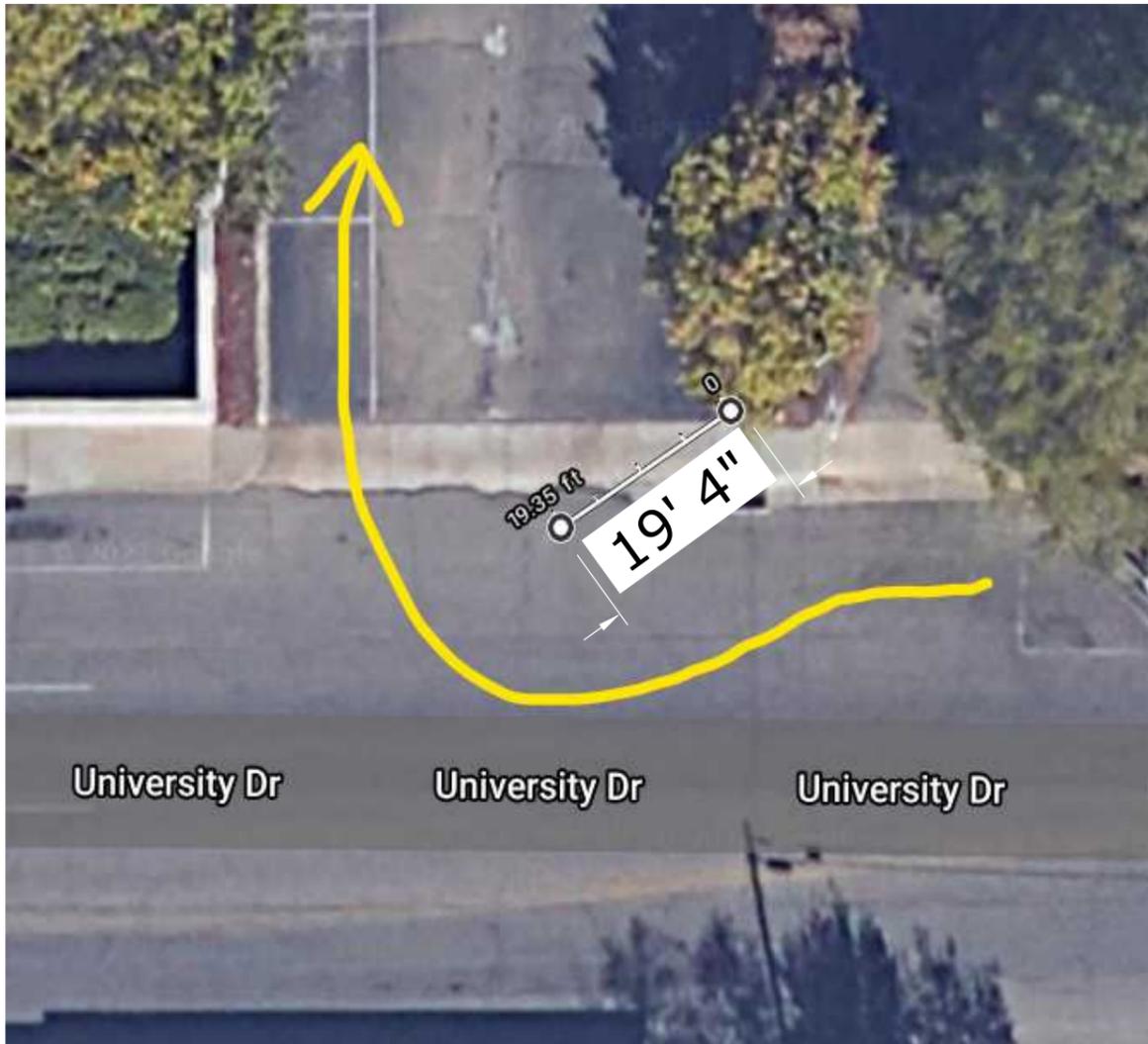


Turn 5 (Onto S Montgomery to University Dr)



Turn 6 (Onto University Dr to South Entrance of Job Site)

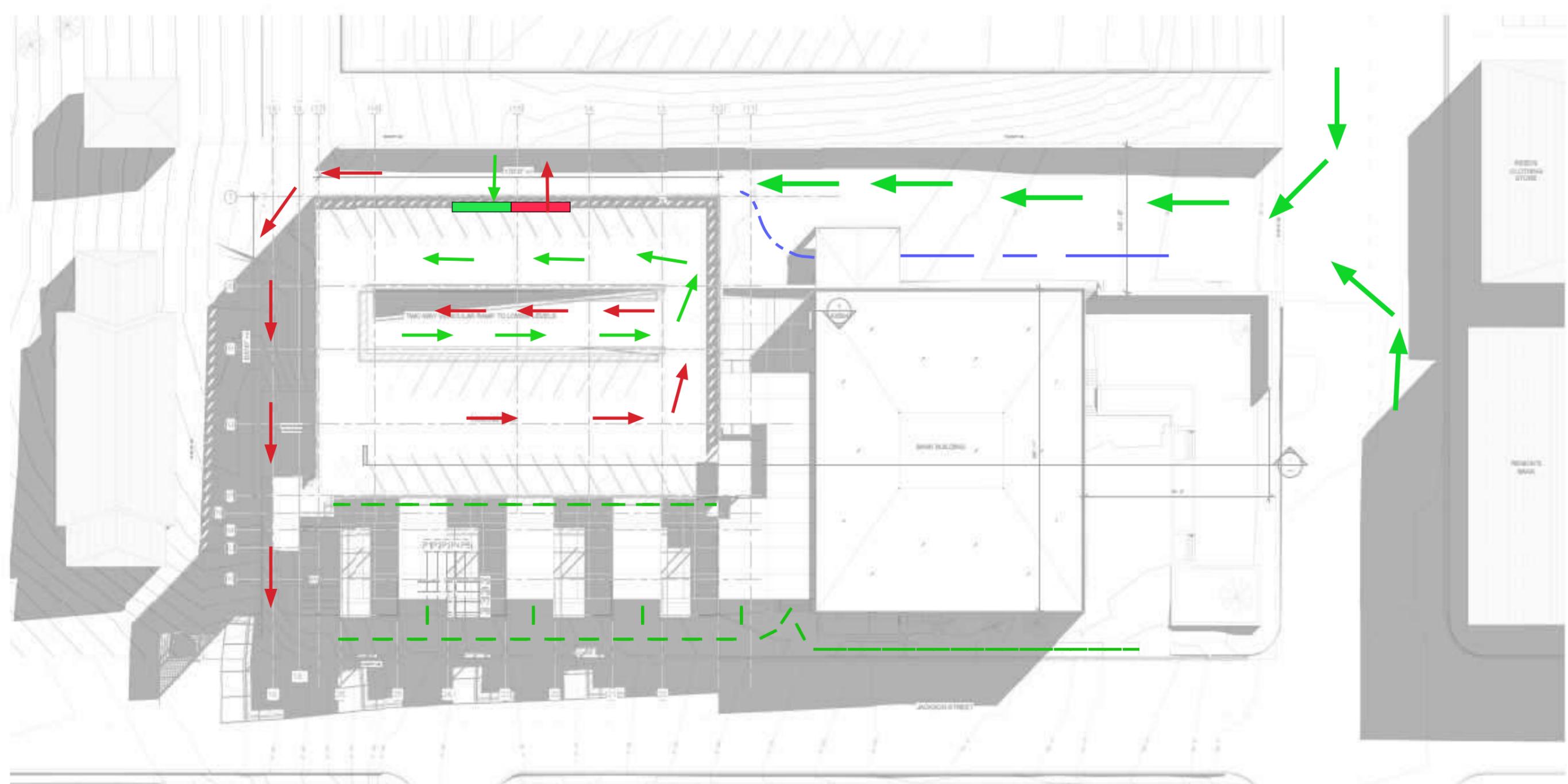
Turning Radii for Panel Transportation Trailers:



Turn 6 (Onto South Entrance of Job Site)

REVISION(S)

NO.	DESCRIPTION	DATE



1 VEHICLE CIRCULATION DIAGRAM
AN904 1" = 20'-0"

- Pedestrian Traffic
- ATM Traffic
- Entrance Route
- Exit Route
- Garage Entrance
- Garage Exit