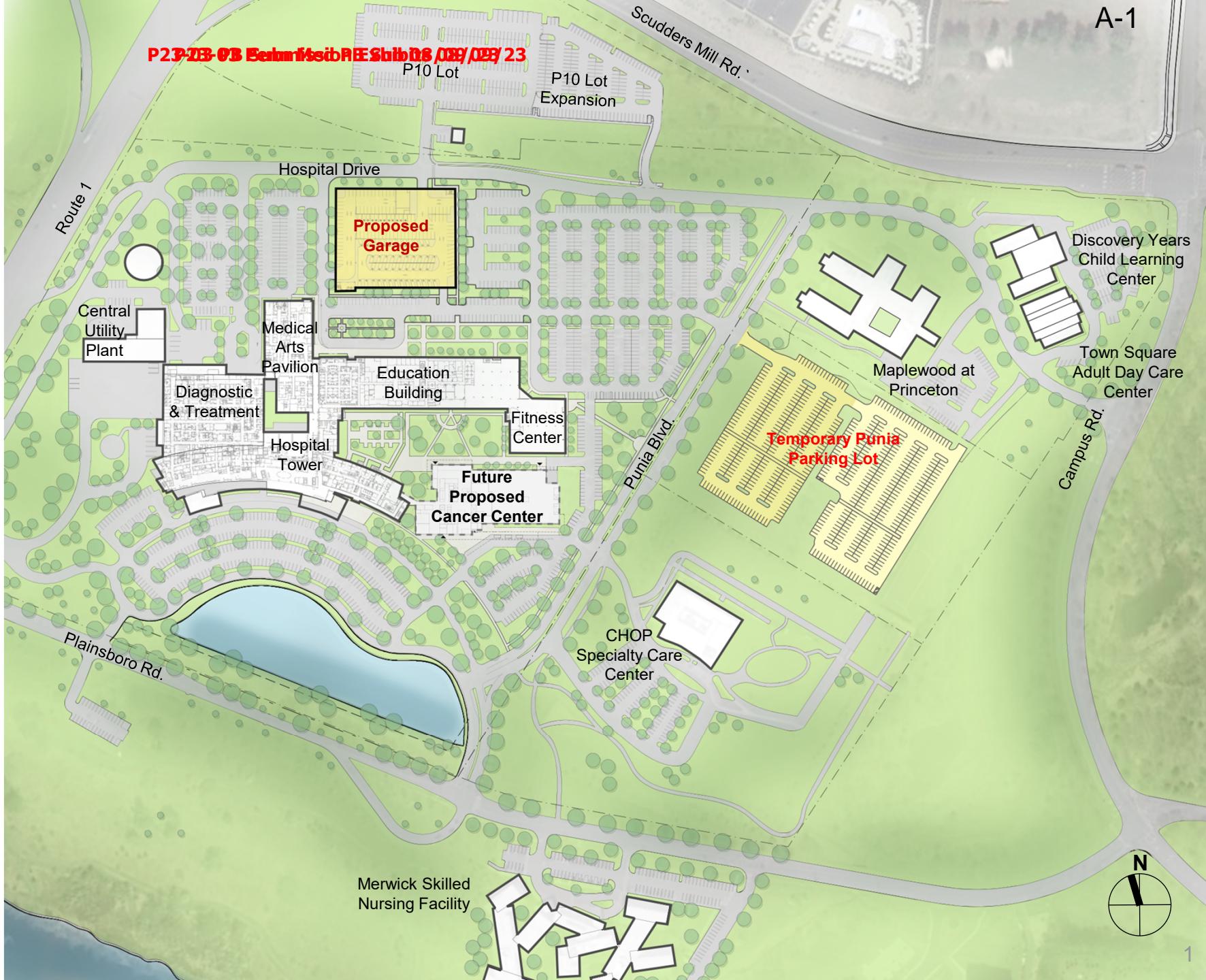


**Penn Medicine at Princeton  
Planning Board Exhibits  
August 21, 2023**


Exhibit #	Title	Prepared By	Date
A-1	Campus Plan	Shepley Bulfinch (“SB”)	8-21-23
A-2	Rendered Landscaping Plan (Phase 1C – Parking Garage)	French & Parrello Associates (“FPA”)	7-25-23
A-3	Rendered Site Layout and Dimension Plan (Phase 1A-Temporary Parking Lots)	FPA	7-25-23
A-4	1st Tier Architectural Plan	THA Consulting, Inc. (“THA”)	7-25-23
A-5	2nd Tier Architectural Plan	THA	7-25-23
A-6	3rd Tier Architectural Plan	THA	7-25-23
A-7	4th Tier Architectural Plan	THA	7-25-23
A-8	5th Tier Architectural Plan	THA	7-25-23
A-9	6th Tier Architectural Plan	THA	7-25-23
A-10	Three-Dimensional Image Showing Lighting	Borealis Design	8-21-23
A-11	Garage Design Materials Palette	SB	8-21-23
A-12	Garage Design West Elevation	SB	8-21-23
A-13	Garage Design South Elevation	SB	8-21-23
A-14	Garage Design East Elevation	SB	8-21-23
A-15	Garage Design North Elevation	SB	8-21-23
A-16	Façade Treatment Daytime Rendering SW Corner	SB	8-21-23
A-17	Façade Treatment Daytime Rendering NE Corner	SB	8-21-23
A-18	View From Route 1 (September 2019)	SB	8-21-23
A-19	View From Route 1 (December 2021)	SB	8-21-23
A-20	View from Punia Blvd. (April 2023)	SB	8-21-23
A-21	Parking Supply Summary Tables	DTS Provident (“DTSP”)	8-21-23
A-22	Representative Cancer Center Parking Surveys	DTSP	8-21-23
A-23	Construction Parking Operations	DTSP	June 2023
A-24	Vehicle and Pedestrian Flow During Garage Construction (L-02)	L.F. Driscoll (“LFD”)	7-25-23
A-25	Vehicle and Pedestrian Flow During Drop Off Area Construction (L-01)	LFD	7-25-23
A-26	Traffic Flow During Construction (L-03)	LFD	8-21-23

# PMPH – Hospital Parking Garage & Temporary Parking

## Campus Plan

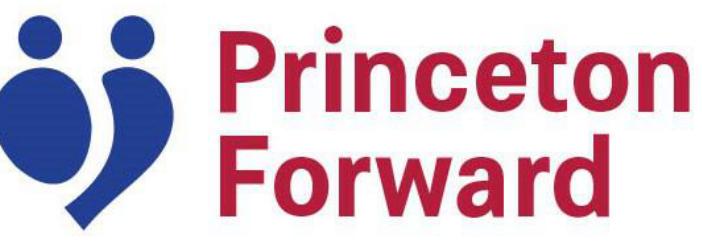
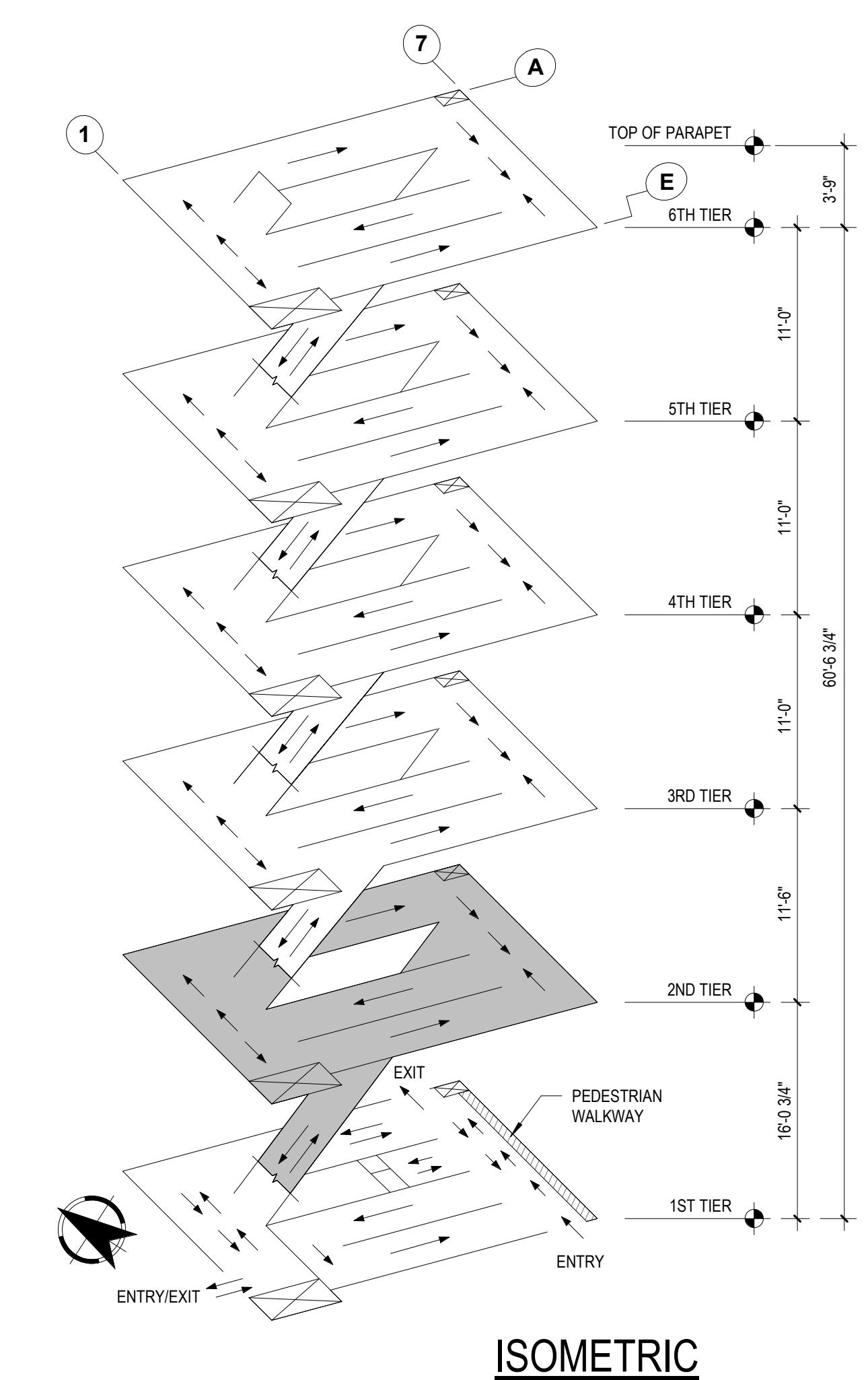
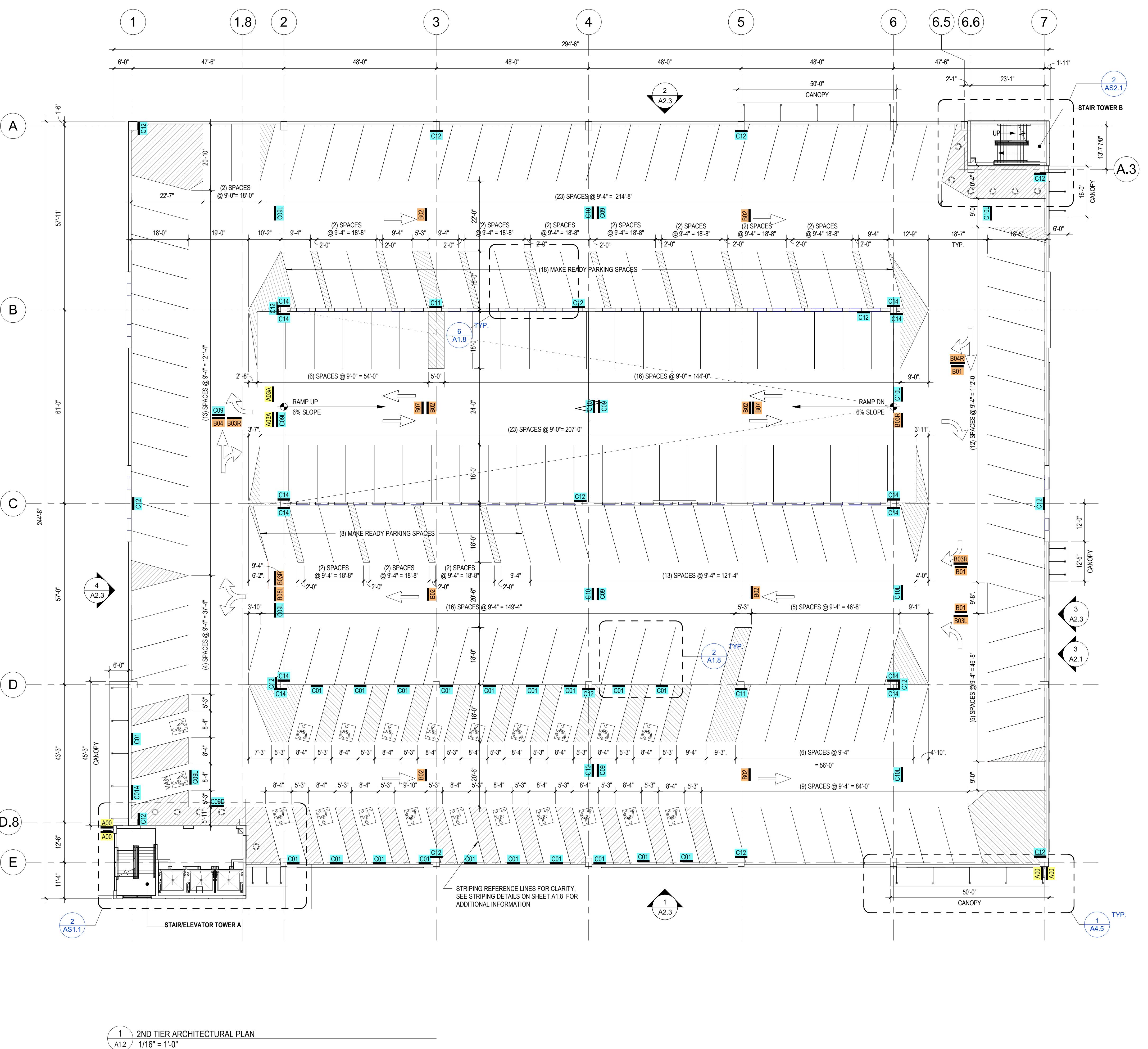


Prepared by Shepley Bulfinch









Penn Medicine  
Princeton Health

1 Plainsboro Road  
Plainsboro, NJ 08536  
OWNER

**SHEPLEY  
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shepleybulfinch.com

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Mechanical, Electrical, Plumbing, Fire Protection, and Security Systems Engineer

**FPA**

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Wall, New Jersey 07719  
732.312.9800

FPAEngineers.com

KEVIN CARRIGAN, P.E.  
PROFESSIONAL ENGINEER, N.J. LIC. No GE56462



STAMP

6	07/25/23	SITE PLAN SUBMISSION REVISIONS
5	06/30/23	FOR PRICING
4	06/19/23	SITE PLAN SUBMISSION REVISIONS
3	06/10/23	SITE PLAN SUBMISSION
2	12/16/22	PRECAST BID SET
1	10/21/22	PRECAST BID SET
	NO. DATE	DESCRIPTION

**Penn Medicine  
Princeton Health  
Cancer Center  
Garage**

1 Plainsboro Rd.  
Princeton, NJ 08540  
JOB NO: NBR2119.00

**2ND TIER  
ARCHITECTURAL  
PLAN**

**A1.2**

07/25/2023 SITE PLAN SUBMISSION

PLAN LEGEND	
	PIPE BOLLARD
	PRECAST BOLLARD
	ACCESSIBLE PARKING SPACE
	4" WIDE STRIPES PAINTED YELLOW @ 1'-6" O.C.
	PAINTED FLOOR ARROW
	DOOR NUMBER, SEE DOOR SCHEDULE
	WALL TAG
	RATED WALL TAG
	COMPACT PARKING SPACE - PAINTED
	SIGNAGE KEYNOTE, SEE SHEETS G1.1-G1.4 FOR SCHEDULE AND RELATED DETAILS



**Princeton Forward**

**Penn Medicine Princeton Health**  
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Plainsboro, NJ 08536  
OWNER

**SHEPLEY BULFINCH**

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shepleybulfinch.com

Design Architect

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www.tha-consulting.com  
Architect / Structural Engineer / Parking Consultant

**BR+A**

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brplusa.com

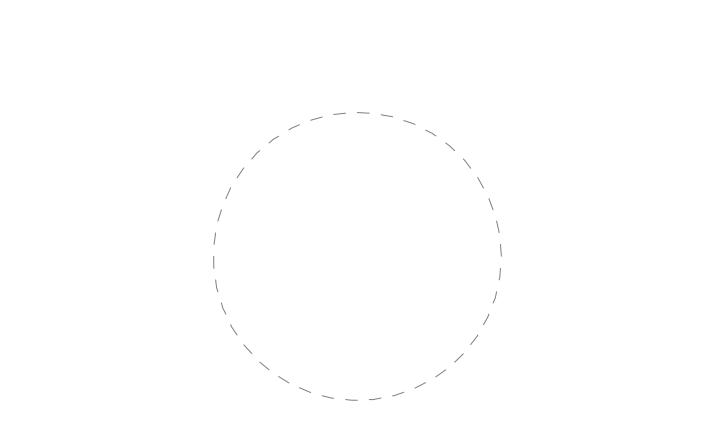
Mechanical, Electrical, Plumbing, Fire Protection, and Security Systems Engineer

**FPA**

**FRENCH & PARRELLO ASSOCIATES**  
Corporate Office:  
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Wall, New Jersey 07719  
732.312.9800

FPAEngineers.com

**KEVIN CARRIGAN, P.E.**  
PROFESSIONAL ENGINEER, N.J. LIC. No GE56462



ISSUANCES	
6	07/25/23 SITE PLAN SUBMISSION REVISIONS
5	06/30/23 FOR PRICING
4	06/19/23 SITE PLAN SUBMISSION REVISIONS
3	06/10/23 SITE PLAN SUBMISSION
2	12/16/22 ID#
1	10/21/22 PRECAST BID SET
	NO. DATE DESCRIPTION

**Penn Medicine Princeton Health Cancer Center Garage**

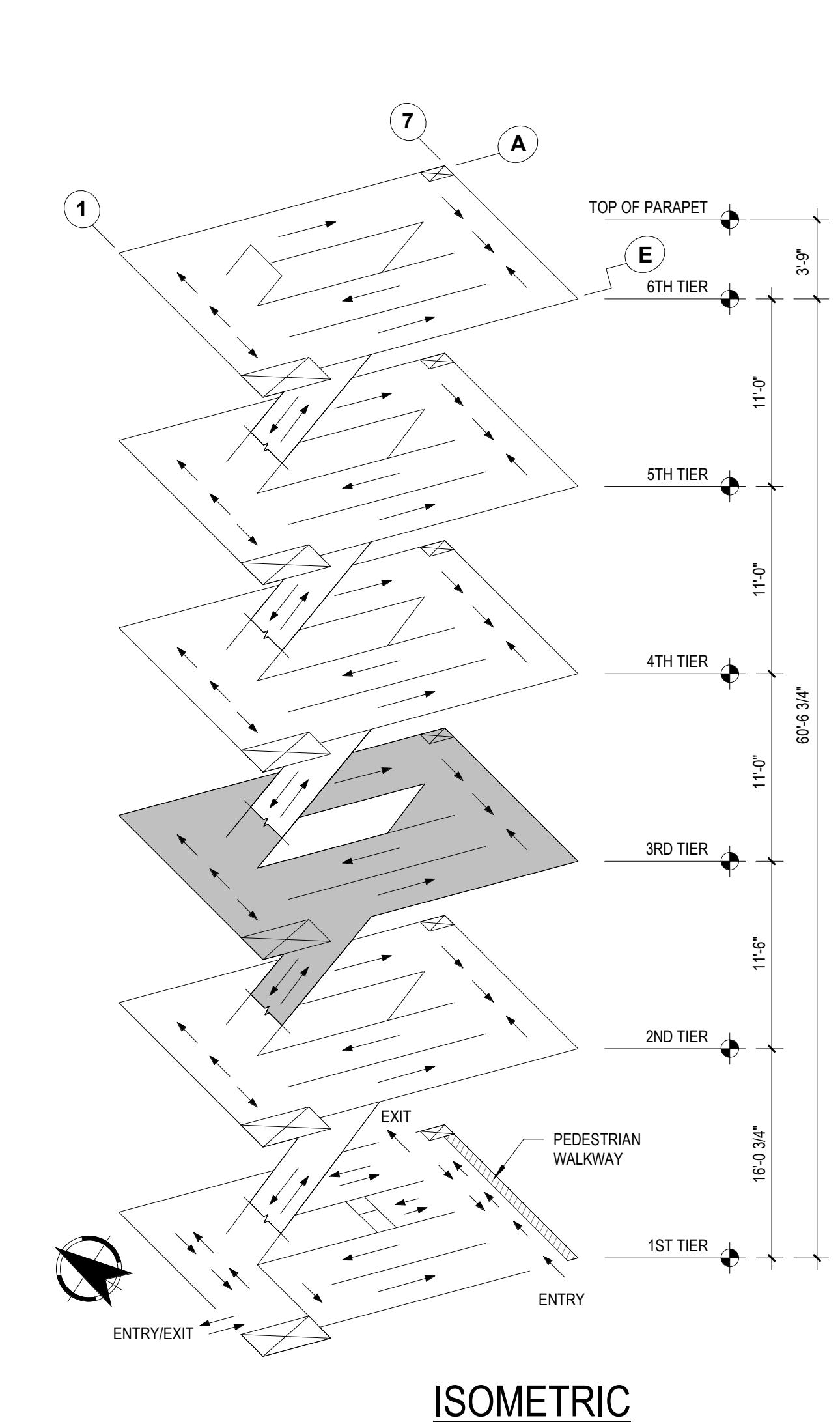
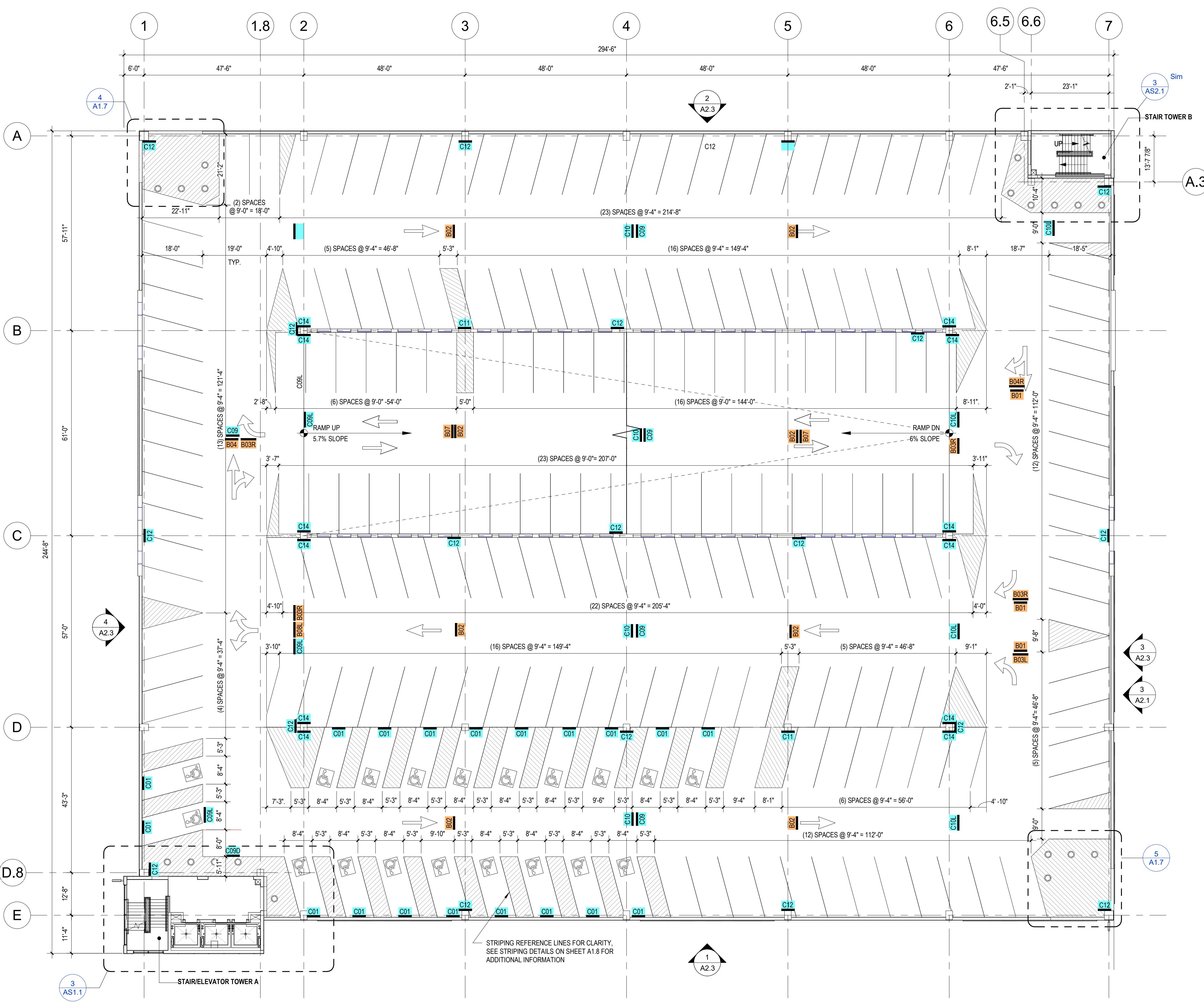
1 Plainsboro Rd.  
Princeton, NJ 08540  
JOB NO: NBR2119.00

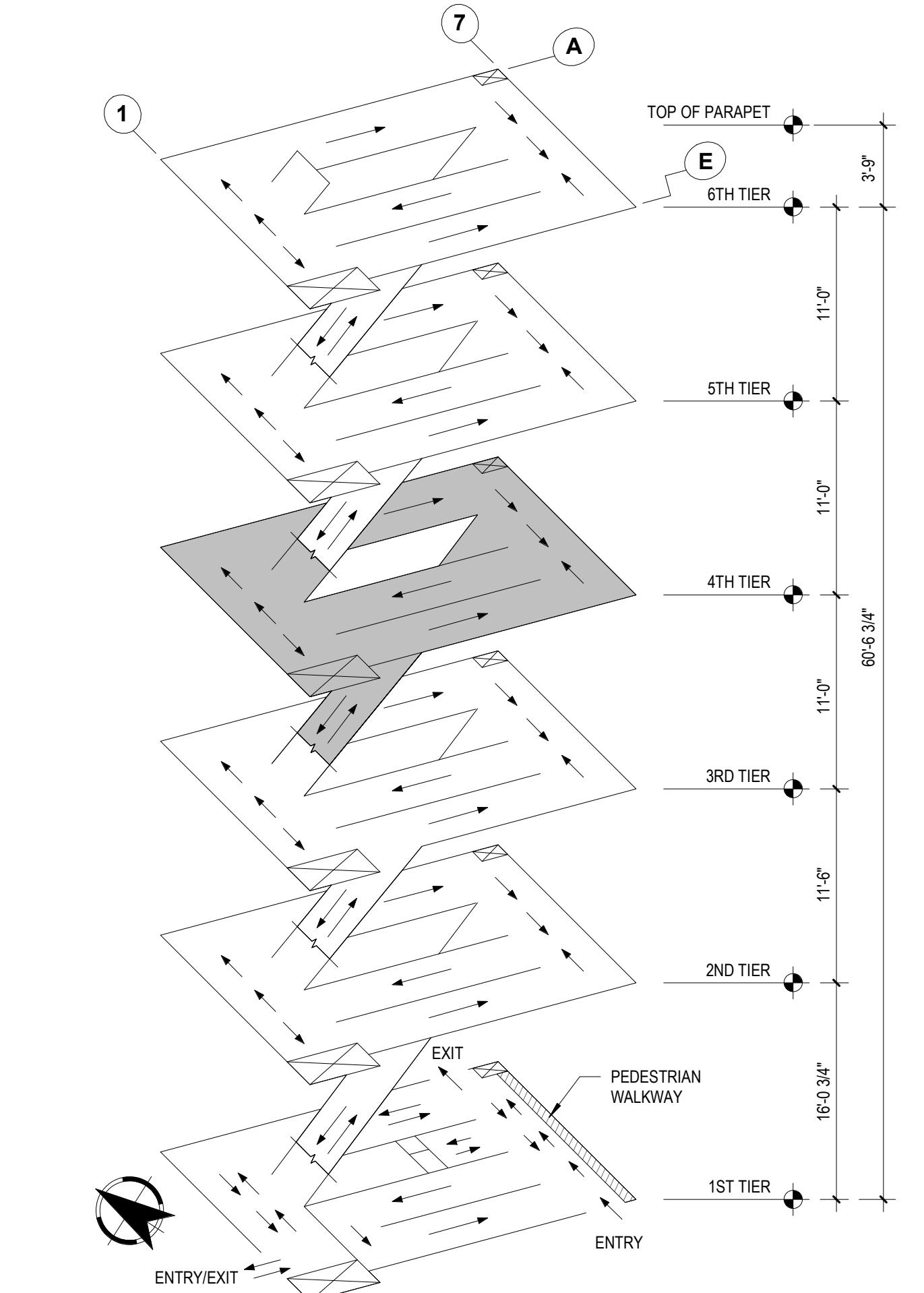
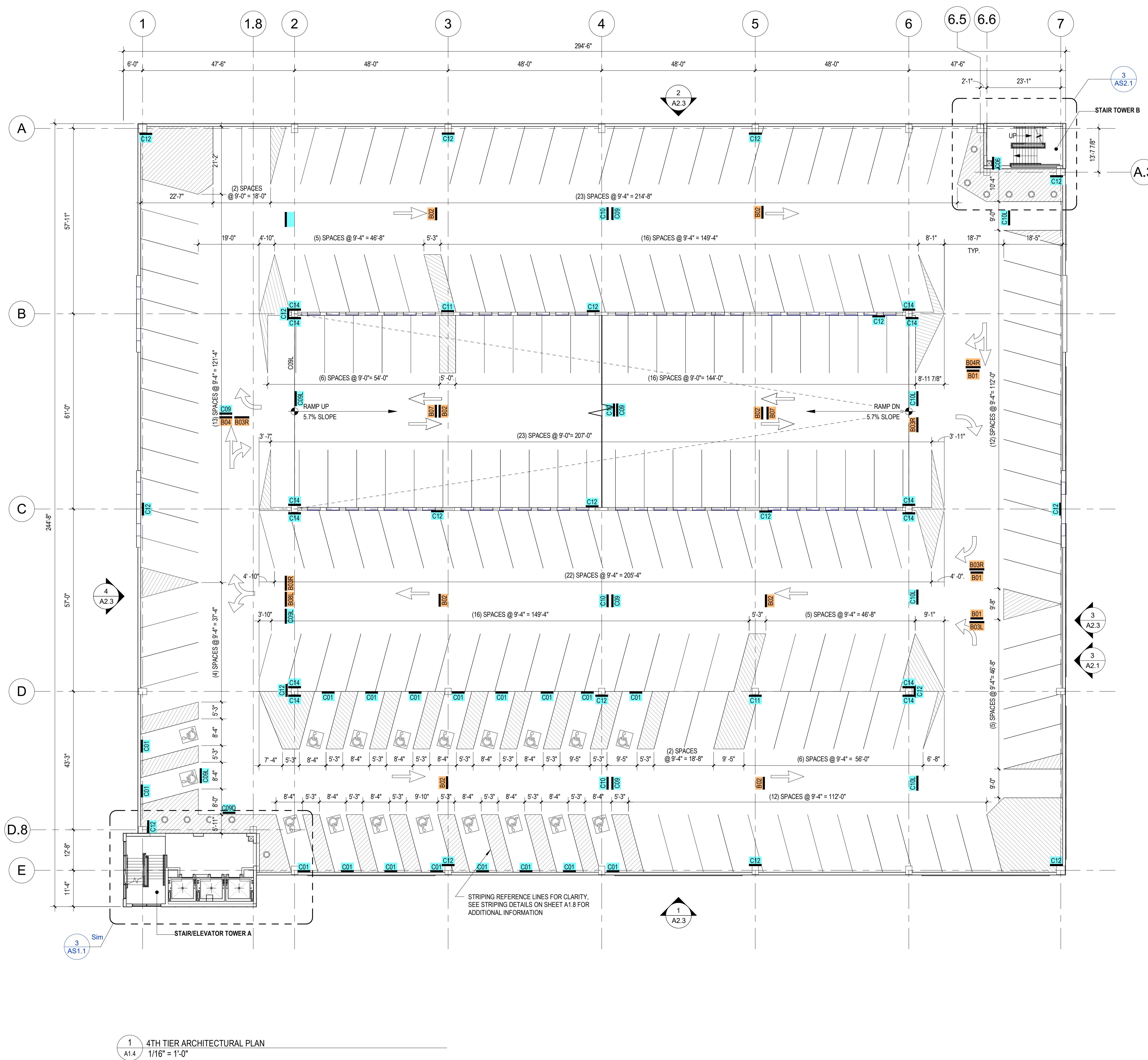
**3RD TIER ARCHITECTURAL PLAN**

**A1.3**

07/25/2023 SITE PLAN SUBMISSION

PLAN LEGEND	
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	PRECAST BOLLARD
	ACCESSIBLE PARKING SPACE
	4" WIDE STRIPES PAINTED YELLOW @ 1'-6" O.C.
	PAINTED FLOOR ARROW
	DOOR NUMBER, SEE DOOR SCHEDULE
	WALL TAG
	RATED WALL TAG
	COMPACT PARKING SPACE - PAINTED
	SIGNAGE KEYNOTE, SEE SHEETS G1.1-G1.4 FOR SCHEDULE AND RELATED DETAILS





# ISOMETRIC

**KEVIN CARRIGAN, P.E.**  
PROFESSIONAL ENGINEER N.J. LIC. No GE56462

6	07/25/23	SITE PLAN SUBMISSION REVISIONS
5	06/30/23	FOR PRICING
4	06/19/23	SITE PLAN SUBMISSION REVISIONS
3	04/10/23	SITE PLAN SUBMISSION
2	12/16/22	IDP
1	10/21/22	PRECAST BID SET

# Penn Medicine Princeton Health Cancer Center Garage

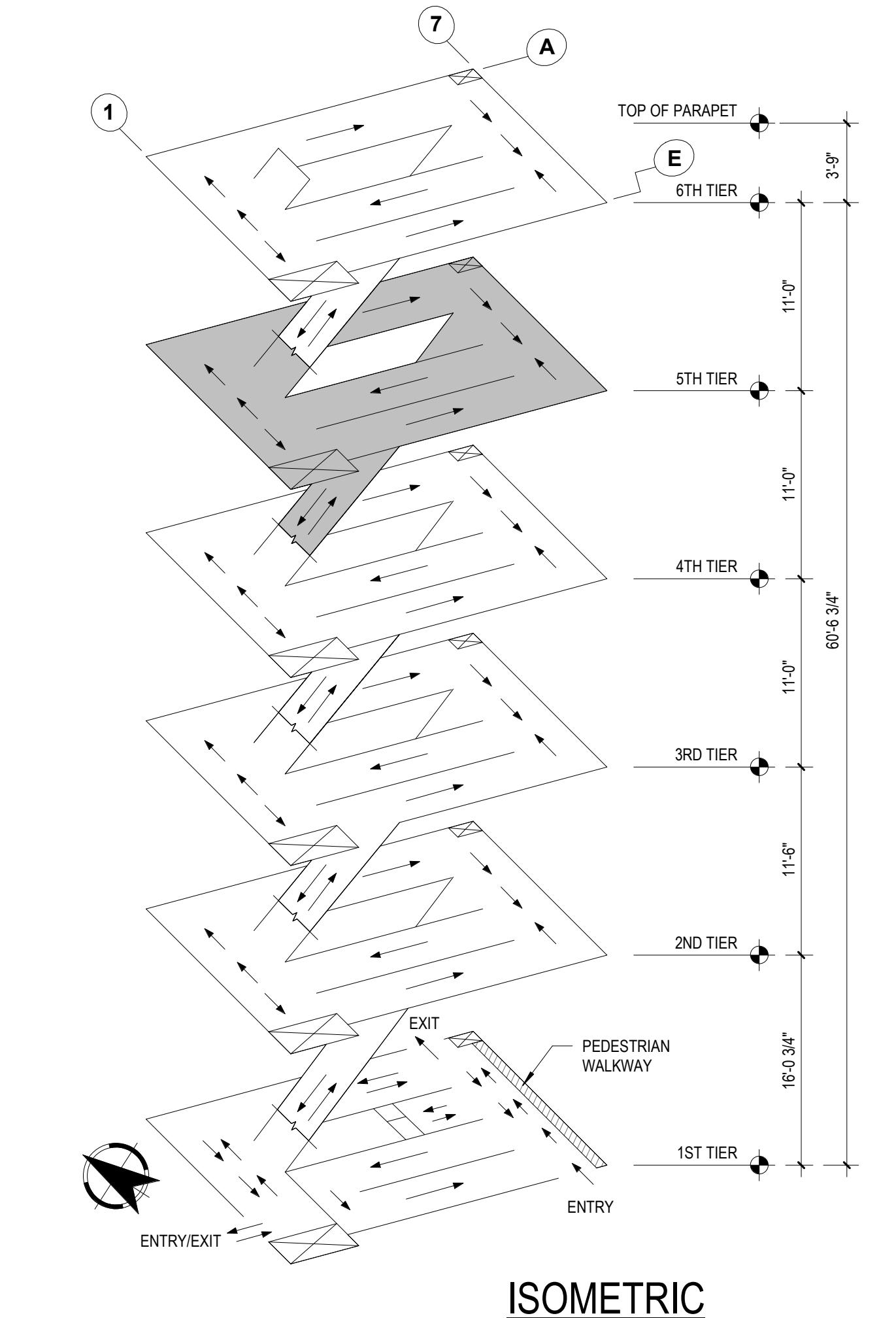
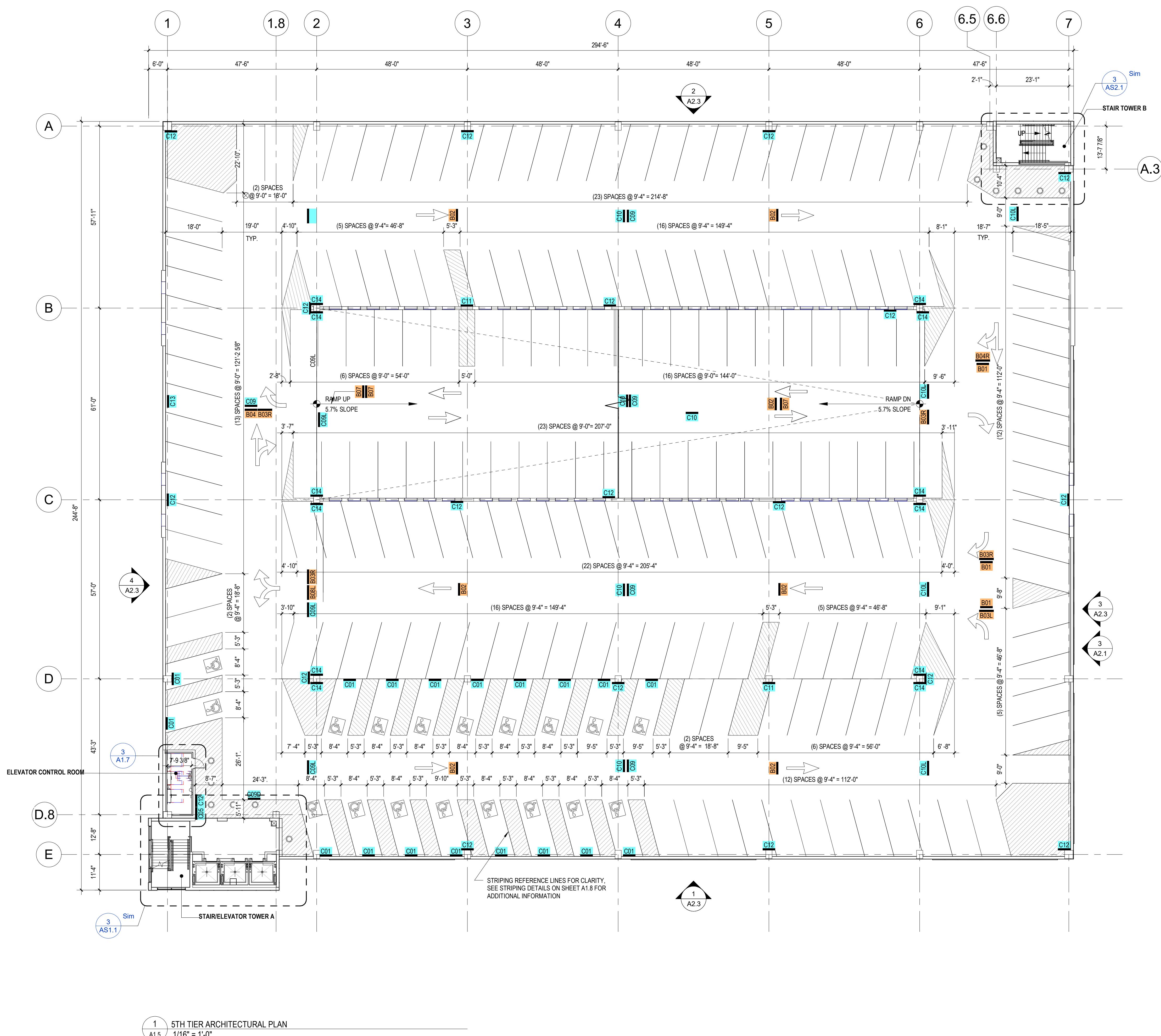
Princeton, NJ 08540  
JOB NO: NBR22119.00

# 4TH TIER ARCHITECTURAL PLAN

# A1.4

07/25/2023 SITE PLAN SUBMISSION

PLAN LEGEND	
	PIPE BOLLARD
	PRECAST BOLLARD
	ACCESSIBLE PARKING SPACE
	4" WIDE STRIPES PAINTED YELLOW @ 1'-6" O.C.
	PAINTED FLOOR ARROW
	DOOR NUMBER, SEE DOOR SCHEDULE
	WALL TAG
	RATED WALL TAG
<b>C</b>	COMPACT PARKING SPACE - PAINTED
	SIGNAGE KEYNOTE, SEE SHEETS G1.1- G1.4 FOR SCHEDULE AND RELATED DETAILS





# Princeton Forward



Penn Medicine  
Princeton Health

Plainsboro Road  
Plainsboro, NJ 08536  
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[healeybulfinch.com](http://healeybulfinch.com)  
Design Architect

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suite 100  
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# Structural Engineer / Parking Consultant

**R+A Consulting Engineers**  
5 Madison Avenue 10th Floor  
New York, NY, 10016  
212.840.0060  
plusa.com

The logo consists of a large, stylized blue letter 'P' positioned above a blue triangle pointing upwards. A green triangle is nested within the lower part of the blue triangle.

**N CARRIGAN, P.E.  
S SIONAL ENGINEER, N.J. LIC. No GE56462**

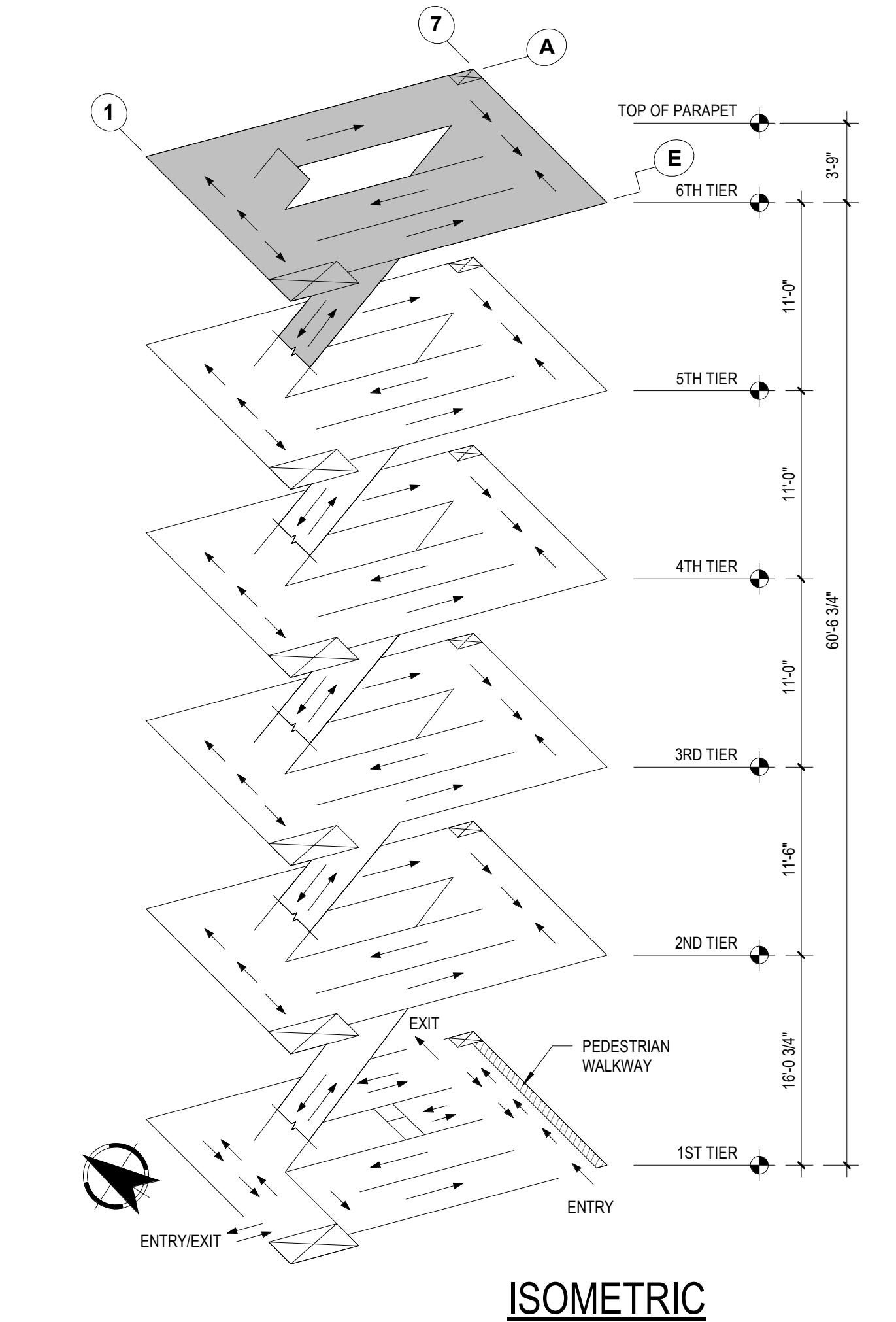
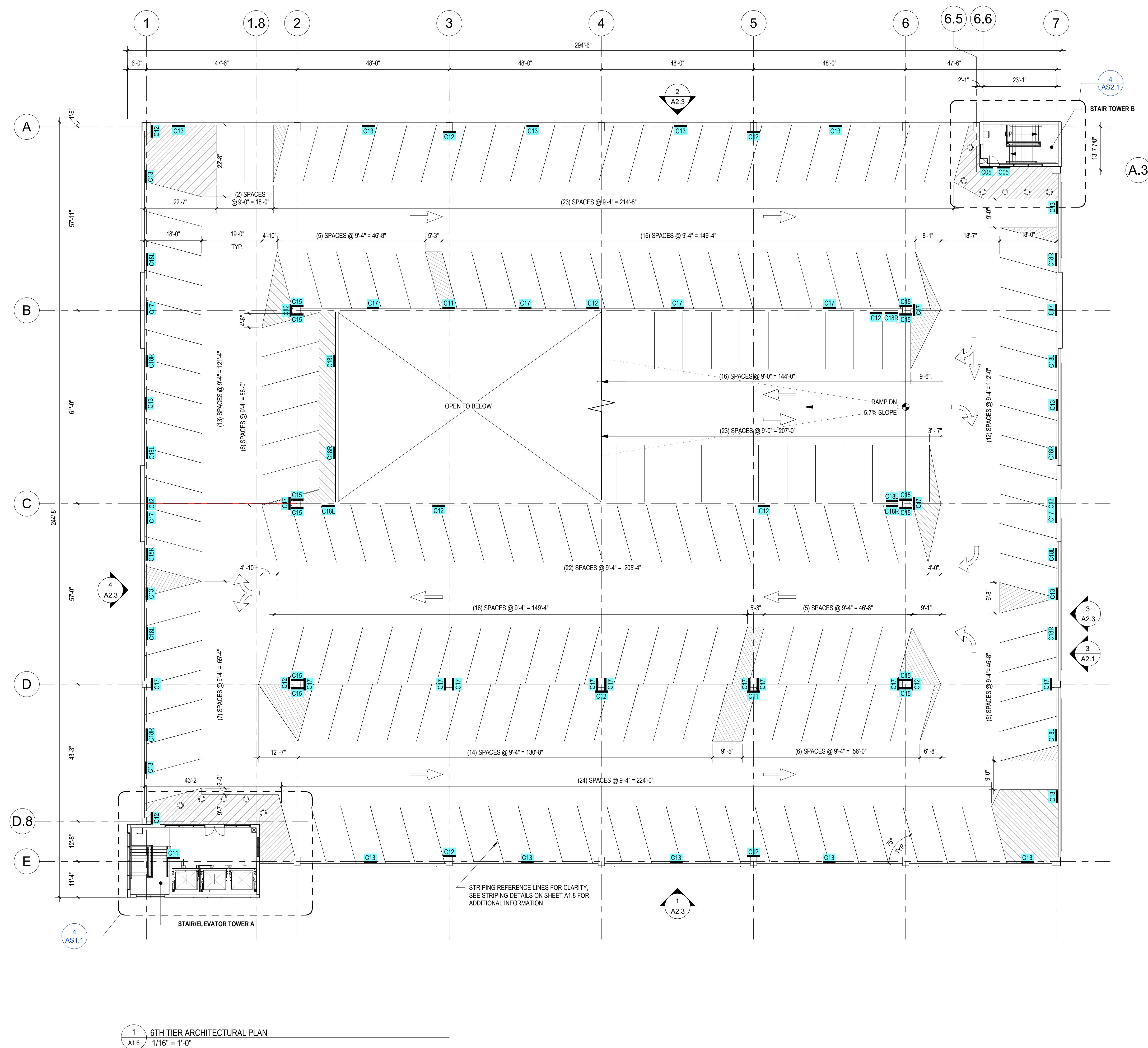
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06/30/23	FOR PRICING	
06/19/23	SITE PLAN SUBMISSION REVISIONS	
04/10/23	SITE PLAN SUBMISSION	
12/16/22	IDP	
10/21/22	PRECAST BID SET	

# Princeton Medicine Princeton Health Cancer Center Prague

9-  
boro Rd,  
n, NJ 08540  
NBR22119.00

**H TIER  
ARCHITECTURAL  
PLAN**

## 1.5



# ISOMETRIC

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**KEVIN CARRIGAN, P.E.**  
**PROFESSIONAL ENGINEER, N.J. LIC. No GE56462**

**ASSOCIATES**

---

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NO.	DATE	DESCRIPTION
6	07/25/23	SITE PLAN SUBMISSION REVISIONS
5	06/30/23	FOR PRICING
4	06/19/23	SITE PLAN SUBMISSION REVISIONS
3	04/10/23	SITE PLAN SUBMISSION
2	12/16/22	IDP
1	10/21/22	PRECAST BID SET

# Penn Medicine Princeton Health Cancer Center Garage

Princeton, NJ 08540  
JOB NO: NBR22119.00

# 6TH TIER ARCHITECTURAL PLAN

# A1.6

07/25/2023 SITE PLAN SUBMISSION

PLAN LEGEND	
	PIPE BOLLARD
	PRECAST BOLLARD
	ACCESSIBLE PARKING SPACE
	4" WIDE STRIPES PAINTED YELLOW @ 1'-6" O.C.
	PAINTED FLOOR ARROW
	DOOR NUMBER, SEE DOOR SCHEDULE
	WALL TAG
	RATED WALL TAG
<b>C</b>	COMPACT PARKING SPACE - PAINTED
	SIGNAGE KEYNOTE, SEE SHEETS G1.1- G1.4
	FOR SCHEDULE AND RELATED DETAILS

PROJECT INFORMATION

PROJECT INFORMATION

PROVING INFORMATION

WING INFORMATION

DRAW

# PMPH – Hospital Parking Garage & Temporary Parking

## Garage Design Three-Dimensional Image Showing Lighting



Prepared by Borealis Design

# PMPH – Hospital Parking Garage & Temporary Parking

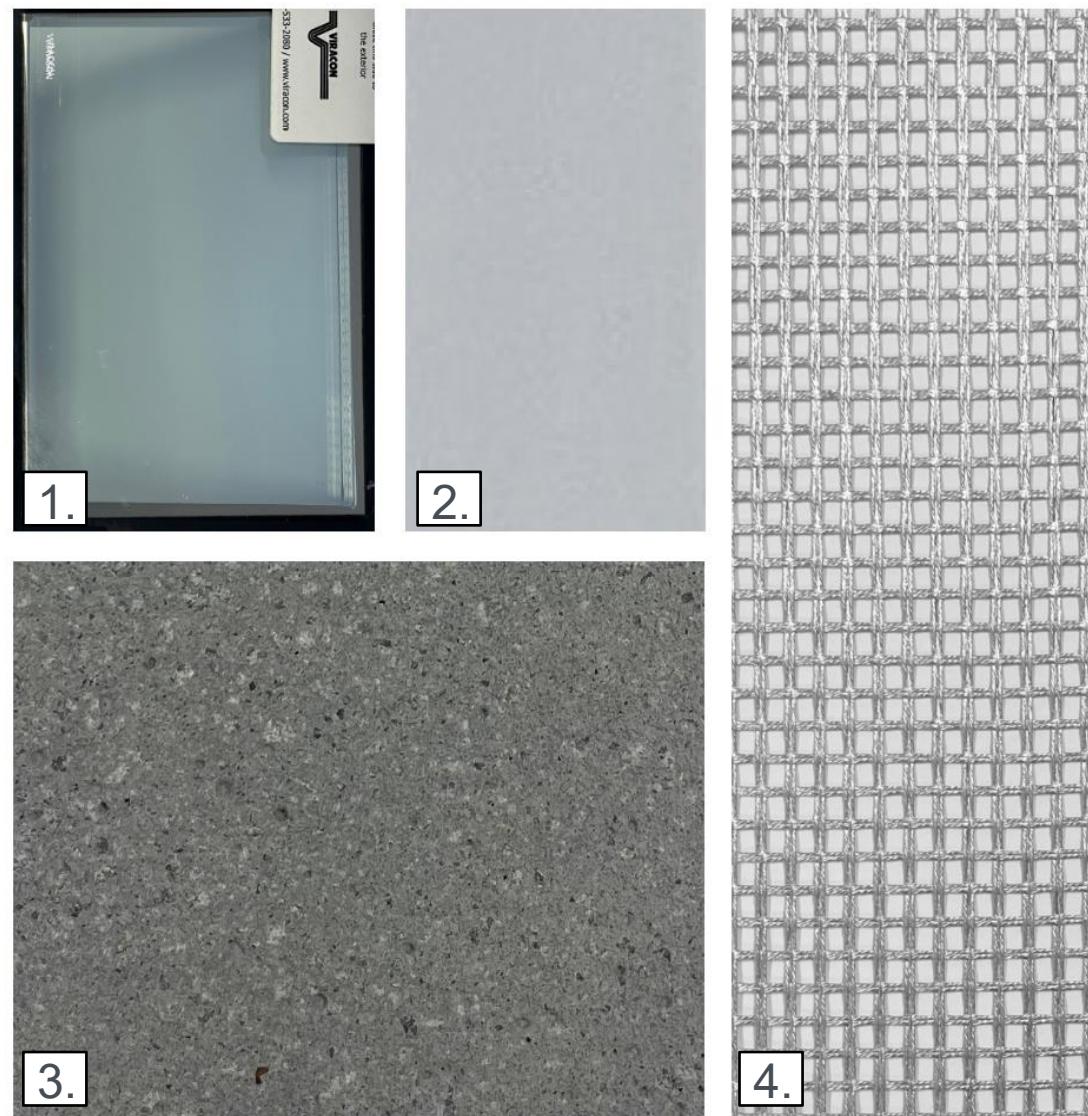
## Garage Design Materials Palette

P23-2B-03 ~~Bellevue BIE Submits 08/02/23~~

The exterior material palette grounds the Garage in the Penn Med Princeton Health campus through the use of materiality and color. The silver mesh, gray precast concrete, and metal panels along with the glazing match the materiality and color of the adjacent Medical Arts and Atkinson Pavilions.

### MATERIALS:

1. **Glazing** to match adjacent building:  
MFR: *Viracon VRE1-46*  
Clear 1" Insulating unit,  
Low-e on #2 surface
2. **Metal Panel**  
MFR: *Dunbar Coatings*  
Standard finish to match those on campus  
(Hospital, Medical Arts Pavilion, Central  
Utility Plant)
3. **Grey Precast Concrete**
4. **Teflon Coated Fiberglass Mesh Panels**  
MFR: *Flex Façade*  
Ventilated, 52% open  
SGM - Silver **Metal Curtainwall**



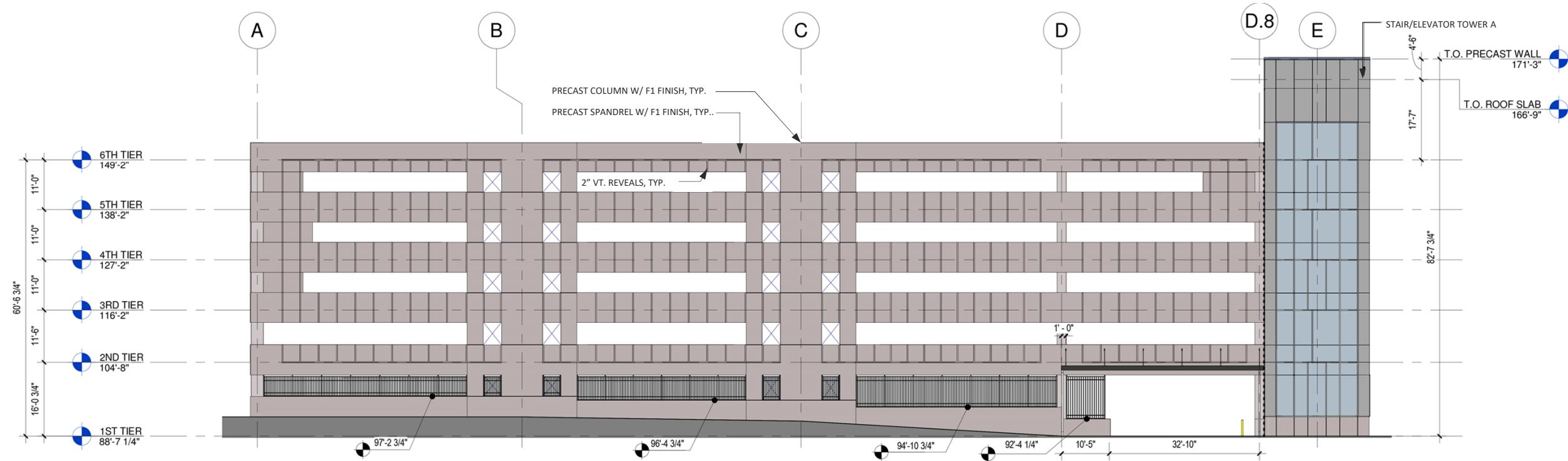
Prepared by Shepley Bulfinch

# PMPH – Hospital Parking Garage & Temporary Parking

P2P-ZB-03 Berichtsstichprobe 08/09/23

# Garage Design

## West Elevation

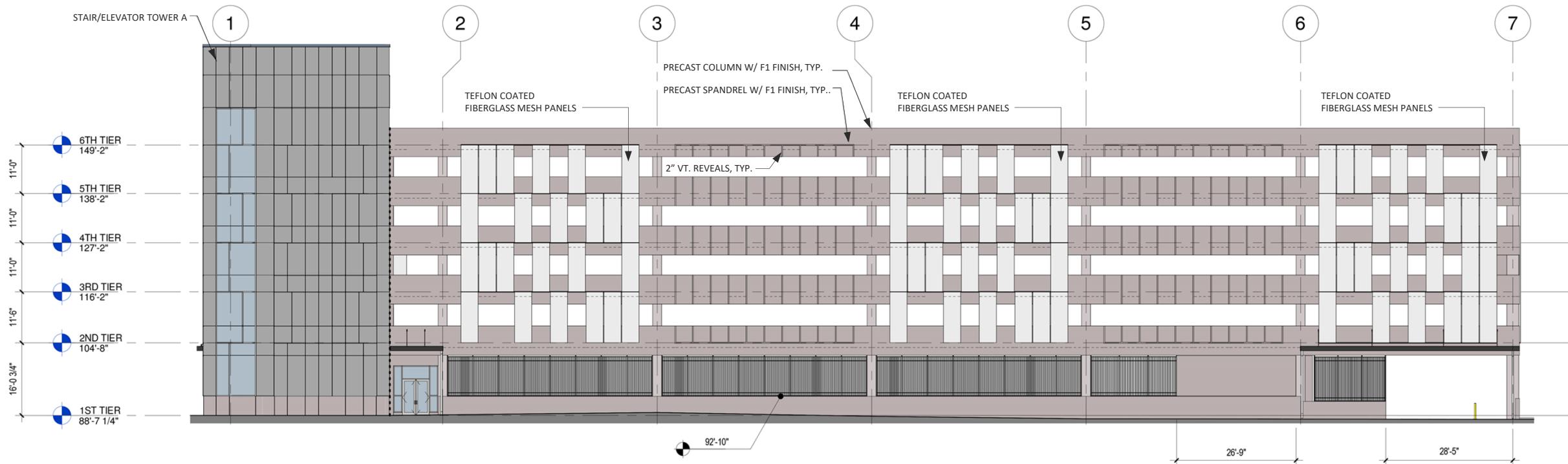


Prepared by Shepley Bulfinch

PMPH – Hospital  
Parking Garage &  
Temporary Parking

P23-2B-03 Building Submittals 08/29/23

Garage Design  
South Elevation

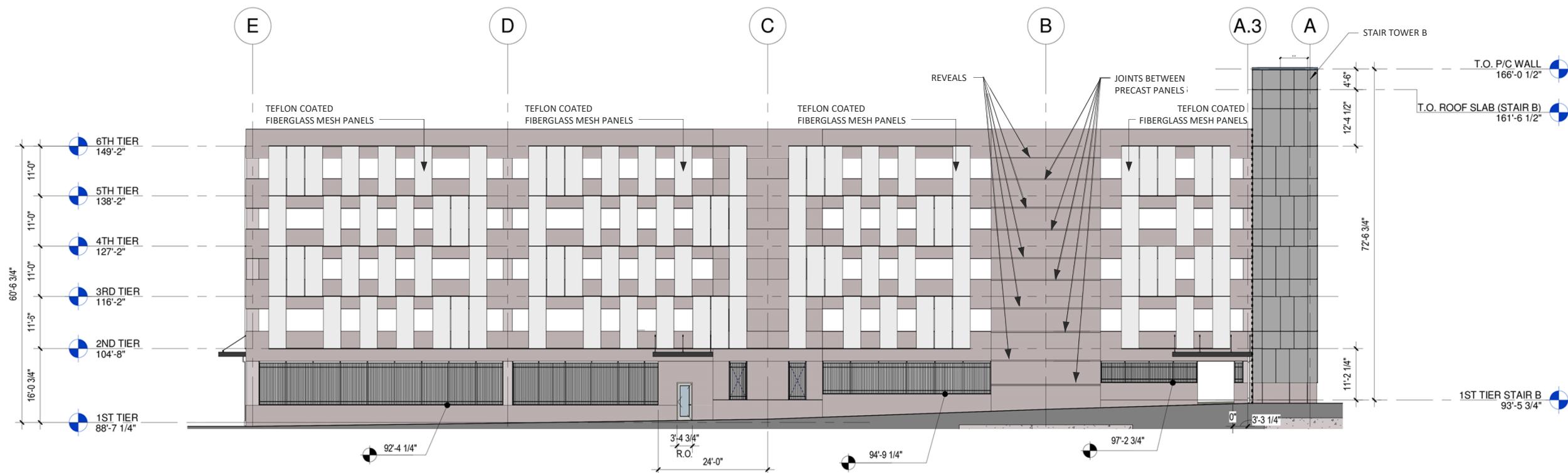


Prepared by Shepley Bulfinch

PMPH – Hospital  
Parking Garage &  
Temporary Parking

P23-2B-03 Bulfinch subRE Sub B 08/23/23

Garage Design  
East Elevation

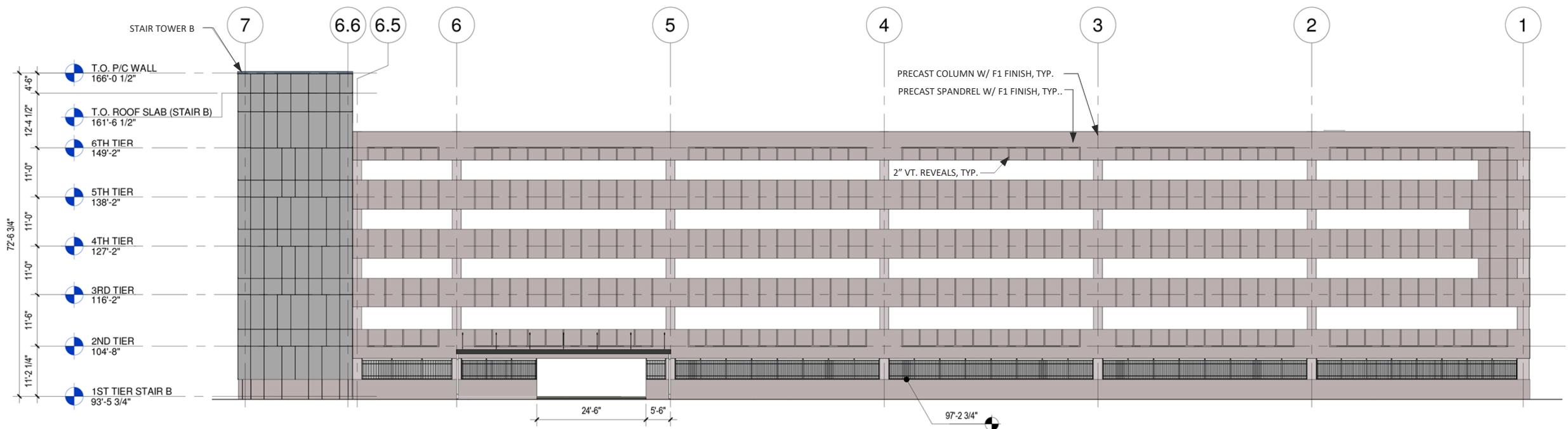


Prepared by Shepley Bulfinch

PMPH – Hospital  
Parking Garage &  
Temporary Parking

P23-2B-03 Building subREF: Sub B 029/029/23

Garage Design  
North Elevation



Prepared by Shepley Bulfinch

# PMPH – Hospital Parking Garage & Temporary Parking

## Façade Treatment Daytime Rendering SW Corner



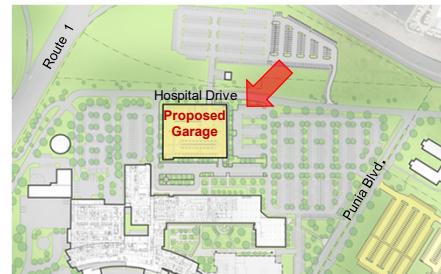
P23-2B-03 Benefits/RE Shibus 089/023/23



Prepared by Shepley Bulfinch

# PMPH – Hospital Parking Garage & Temporary Parking

## Façade Treatment Daytime Rendering NE Corner



P23-2B-03 Building Submittals 08/09/23



Prepared by Shepley Bulfinch

# PMPH – Hospital Parking Garage & Temporary Parking

## View from Route 1



P23-2B-03 Benefits/RE Sheds 029/029/23



Prepared by Shepley Bulfinch

# PMPH – Hospital Parking Garage & Temporary Parking

## View from Route 1



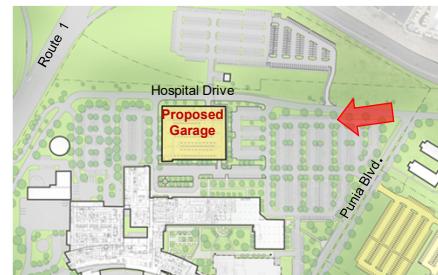
P23-2B-03 Benefits/RE Shibus 03/03/23



Prepared by Shepley Bulfinch

# PMPH – Hospital Parking Garage & Temporary Parking

## View from Punia Blvd.



P23-2B-03 BelmetsibRE Subm 08/09/23



Prepared by Shepley Bulfinch

# Parking Supply Summary Tables

P2-PB-03-Submittal#PREF-SubD8-039-029-23

**TABLE NO. 1**
**PARKING REQUIREMENTS & SUPPLY WITHOUT PARKING LOT P10  
PENN MEDICINE PRINCETON HEALTH, PLAINSBORO, NEW JERSEY**

Parking Demand/Supply	Number of Parking Spaces
<b>Required HMOC Parking</b> (obtained from "Amended Preliminary and Final Major Site Plan", French & Parrello, 7/22/2010)	1,540
<b>Vacant Fitness Center Space</b> (44,200 SF, obtained from Princeton Forward Memorandum dated 2/6/2023) <i>[using Amended Redevelopment Plan requirement of 4 spaces per 1,000 SF]</i>	+177
<b>Required Cancer Center Expansion Parking</b> (Proposed 151,555 SF) <i>[using Amended Redevelopment Plan requirement of 4 spaces per 1,000 SF]</i>	+606
<b>Total Parking Required</b>	2,323
<b>Existing Parking Supply (excluding Lot P10)</b>	1,539
<b>Additional Supply (Proposed Parking Garage)</b>	+1,161
<b>Displaced Parking Supply (due to Cancer Center expansion)</b>	-167
<b>Displaced Parking Supply (due to Parking Garage structure)</b>	-182
<b>Total Parking Supply</b>	2,351
<b>Excess Parking Capacity</b>	+28

**TABLE NO. 2**
**PARKING REQUIREMENTS & SUPPLY WITH PARKING LOT P10  
PENN MEDICINE PRINCETON HEALTH, PLAINSBORO, NEW JERSEY**

Parking Demand/Supply	Number of Parking Spaces
<b>Required HMOC Parking</b> (obtained from "Amended Preliminary and Final Major Site Plan", French & Parrello, 7/22/2010)	1,540
<b>Vacant Fitness Center Space</b> (44,200 SF, obtained from Princeton Forward Memorandum dated 2/6/2023) <i>[using Amended Redevelopment Plan requirement of 4 spaces per 1,000 SF]</i>	+177
<b>Required Cancer Center Expansion Parking</b> (Proposed 151,555 SF) <i>[using Amended Redevelopment Plan requirement of 4 spaces per 1,000 SF]</i>	+606
<b>Total Parking Required</b>	2,323
<b>Existing Parking Supply (excluding Lot P10)</b>	1,539
<b>Existing Parking Supply (Lot P10)</b>	315
<b>Additional Supply (Lot P10 Expansion)</b>	+128
<b>Additional Supply (Proposed Parking Garage)</b>	+1,161
<b>Displaced Parking Supply (due to Cancer Center expansion)</b>	-167
<b>Displaced Parking Supply (due to Parking Garage structure)</b>	-182
<b>Total Parking Supply</b>	2,794
<b>Excess Parking Capacity</b>	+471

Prepared by DTS Provident

P23-2B-03 Belmont Sub RE Sub No 029/029/23

# Representative Cancer Center Parking Surveys

- Surveyed two existing stand-alone cancer centers
- Located in Middletown and Montvale New Jersey
- Performed initial surveys at half hour intervals from 10am to 4pm
- Initial surveys performed on two consecutive weekdays at each facility
- Additional spot surveys conducted from 4pm to 8pm and 8am to 10am
- Peak demand occurred between 10:30am and 11:30am at both facilities

**TABLE NO. 3**  
**PARKING DEMAND RATIO COMPARISON - CANCER CENTER FACILITY**  
**PENN MEDICINE PRINCETON HEALTH, PLAINSBORO, NEW JERSEY**

Source	Parking Demand Ratio (Spaces/1,000sf GFA)	Parking Demand for a 151,555 sf Facility (Spaces)
Amended Redevelopment Plan	4.00	606
Parking Accumulation Surveys (conducted at existing Memorial Sloan Kettering Cancer Center facilities)	Middletown, NJ Facility	2.07
	Montvale, NJ Facility	2.20
Parking Count Demand Model	2.78	421

TABLE NO. 6 CONSTRUCTION PARKING OPERATIONS PHASE 6 (~ JANUARY 2025 TO MARCH 2025) PENN MEDICINE PRINCETON HEALTH, PLAINSBORO, NEW JERSEY	
Parking Supply/Displaced/Demand	Number of Parking Spaces
Existing Parking Supply (excluding Lot P10)	+1,539
Existing Parking Supply (Lot P10)	+315
Additional Supply (Lot P10 Expansion)	+128
Additional Supply (Proposed Temporary Punia Lot - Long Term)	+304
Additional Supply (Proposed Temporary Punia Lot - Short Term)	+324
Additional Supply (Proposed Parking Garage)	0
<i>Total Parking Supply</i>	2,610
Displaced Parking Supply (due to Lot P10 expansion)	0
Displaced Parking Supply (due to COLO construction)	0
Displaced Parking Supply (due to Utility relocation)	0
Displaced Parking Supply (due to Parking Garage construction)	-246
Displaced Parking Supply (due to Cancer Center construction)	-272
<i>Total Parking Displaced</i>	-518
Required HMOC Parking <sup>(1)</sup>	-1,540
Construction Worker Parking Demand <sup>(2)</sup>	-135
Required Fitness Center Reoccupation Parking <sup>(3)</sup>	-177
Required Cancer Center Expansion Parking <sup>(4)</sup>	0
<i>Total Parking Demand</i>	-1,852
<b>EXCESS PARKING CAPACITY</b>	<b>+240</b>

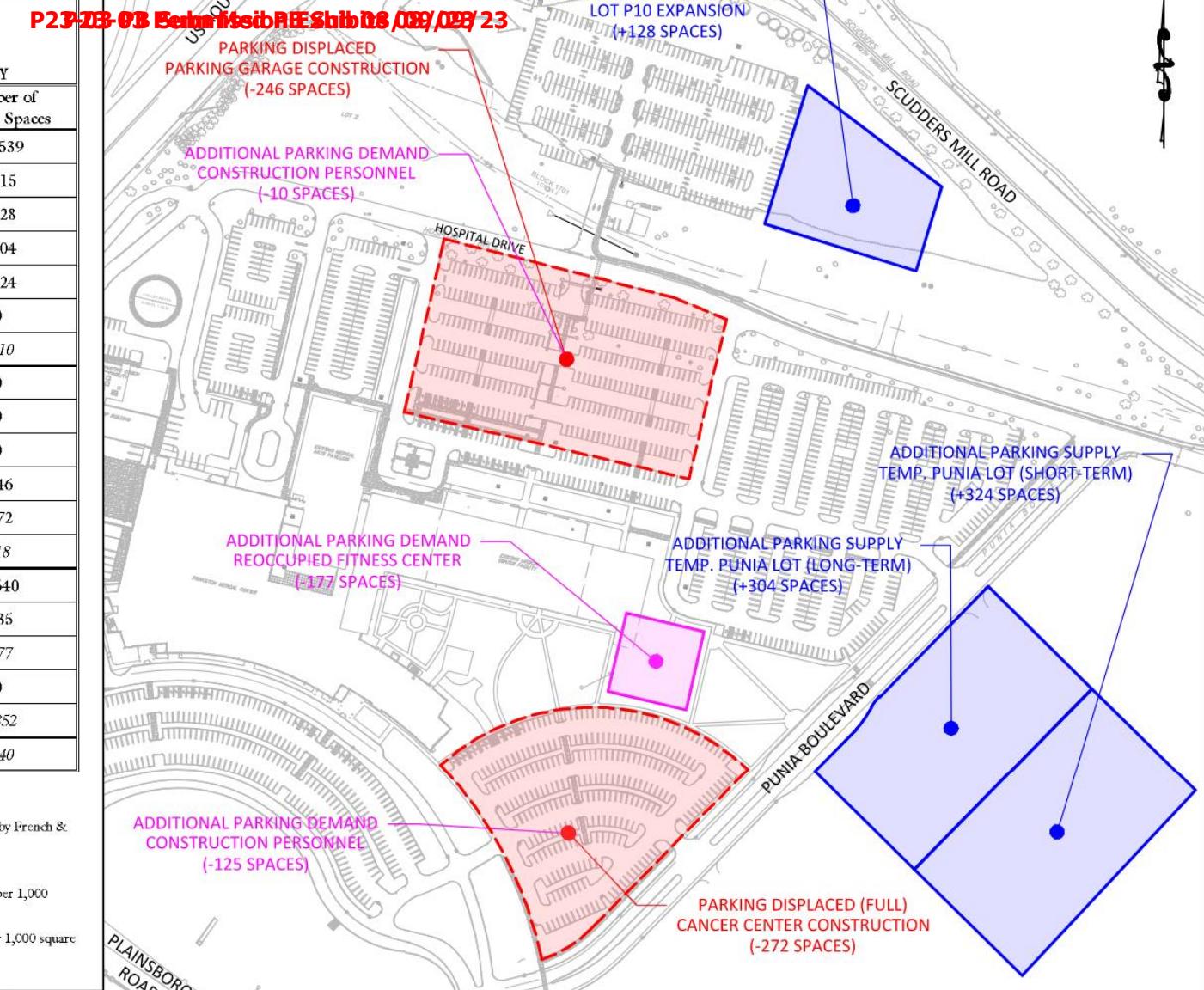
**NOTES**


(1) Required HMOC parking was obtained from the "Amended Preliminary and Final Major Site Plan", prepared by French & Parrello and dated 7/22/2010.

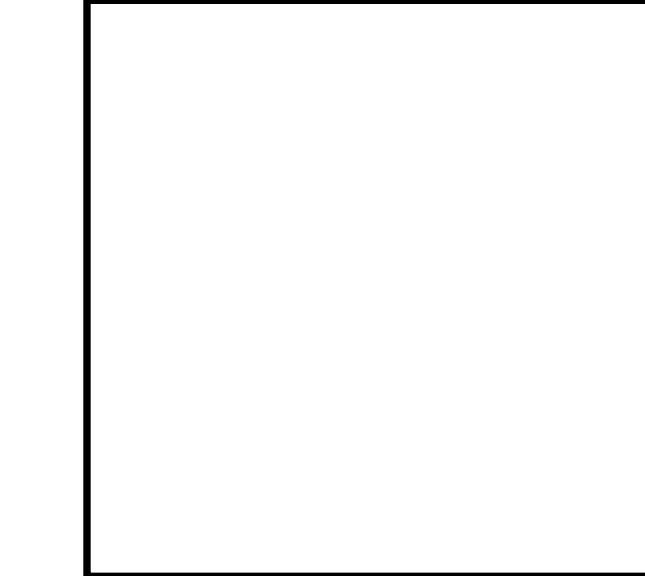
(2) Maximum construction worker parking demand during this phase, provided by the construction contractor.

(3) Reoccupied Fitness Center demand utilizes "Amended Redevelopment Plan" requirement of 4 parking spaces per 1,000 square feet.

(4) Proposed Cancer Center demand utilizes "Amended Redevelopment Plan" requirement of 4 parking spaces per 1,000 square feet.









# Princeton Forward

The logo for Penn Medicine Princeton Health. It features a red shield on the left with a white logo of a person in a medical coat and a book. To the right of the shield, the words "Penn Medicine" are written in a large, blue, serif font. Below that, "Princeton Health" is written in a slightly smaller, bold, blue, sans-serif font.

# SHEPLEY BULFINCH

Design Architect

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T: 484.342.0200  
[www.tha-consulting.com](http://www.tha-consulting.com)

The logo for BR+A Consulting Engineers. It features the letters 'B', 'R', and 'A' in a large, dark grey, sans-serif font. The 'A' is partially cut off on the right. To the right of the 'A' is a red plus sign. Below the logo, the company name 'BR+A Consulting Engineers' is written in a bold, black, sans-serif font. Underneath that, the address '105 Madison Avenue 10th Floor' and the zip code 'New York, NY, 10016' are in a smaller black font. Below the address is the phone number 'T: 212.840.0060' and the website 'brplusa.com'.



**FPA**  
FRENCH & PARRELLO

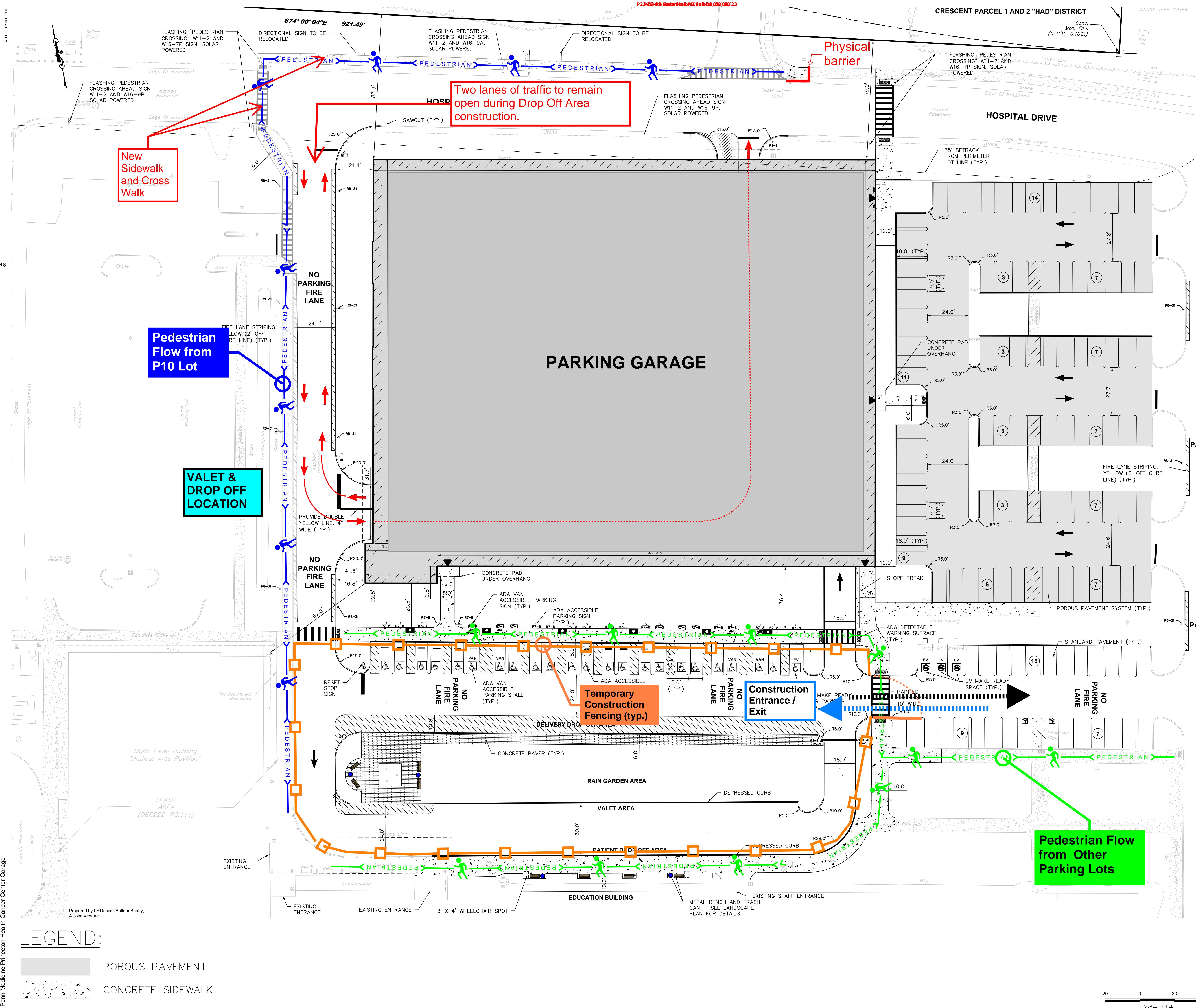
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New Jersey ▲ New York ▲ Pennsylvania ▲ Georgia

# Penn Medicine Princeton Health

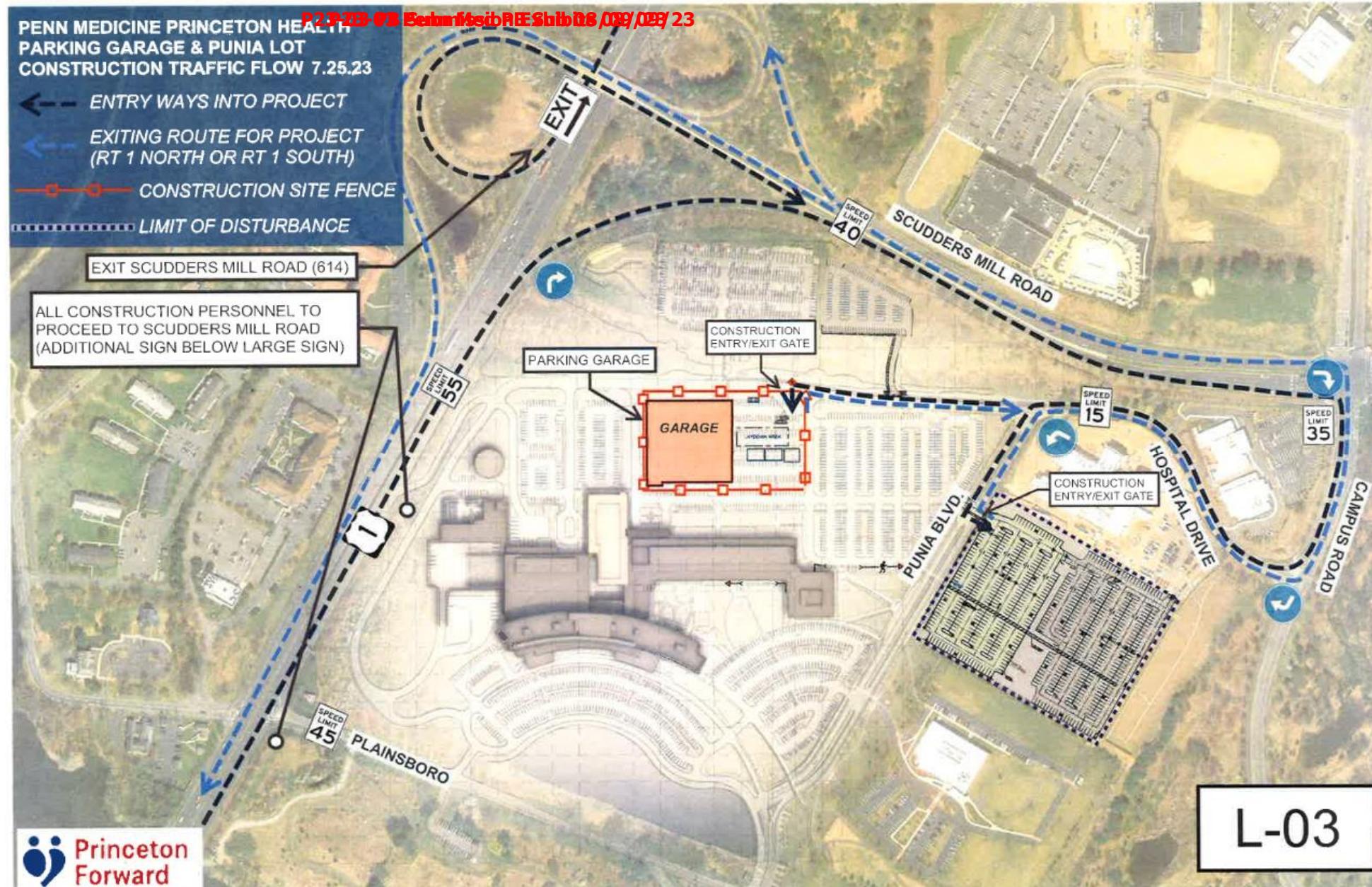
# Vehicle and Pedestrian Flow During Drop Off Area Construction

L-01 25



# PMPH – Hospital Parking Garage & Temporary Parking

## Traffic Flow During Construction



Prepared by LF Driscoll/Balfour Beatty,  
A Joint Venture