

6 TRANSPORTATION

Mobility Management Certificate
Transportation Access Plan

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MOBILITY CERTIFICATION

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CITY OF SOMERVILLE

Inspectional Services • Planning Board • Zoning Board of Appeals

CERTIFICATION OF REQUIRED MATERIALS BY CITY OF SOMERVILLE MOBILITY DIVISION

Development Site Address: 50 Webster Ave.

Applicant Name: US Union Square D3.1 Owner LLC

As required by the Somerville Zoning Ordinance and the City of Somerville's Development Review Submittal Requirements, I certify that I have received and approved the following development review materials for the development proposal identified above:

1. Mobility Management Plan
2. Signed MMP Final Approval Letter

Signature: _____

Mobility Division Representative

Date: May 3, 2022

TRANSPORTATION ACCESS PLAN

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CITY OF SOMERVILLE

Transportation Access Plan

50 Webster Avenue

Prepared for
City of Somerville

Prepared by
Howard Stein Hudson

May 2022



HOWARD STEIN HUDSON

Engineers + Planners



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Appendices

- Appendix A – Illustrative Site Plan**
- Appendix B – Transportation Elements Plan**
- Appendix C – Pedestrian Access Plan**
- Appendix D – Bicycle Parking Plan**
- Appendix E – Motor Vehicle Parking Plan**
- Appendix F – Vehicle Movement Plan**



Project Summary

Howard Stein Hudson (HSH) has prepared the Transportation Access Plan (TAP) with Site Plans and the following narrative for the 50 Webster Avenue redevelopment (the “Project” or “Site”) on behalf of US Union Square D3.1 Owner LLC (the “Proponent”). The Project is consistent with the approved Coordinated Development Special Permit (CDSP) for the Union Square Redevelopment Area. A Mobility Management Plan (MMP) was submitted and approved as part of the Union Square Redevelopment CDSP Application. An MMP for the Project was submitted as required by the Somerville Zoning Ordinance as part of the Design and Sight Plan Review (DSPR).

The Project is in Somerville’s Union Square overlay district sub-area. The Project consists of demolishing the existing building and surface parking lot and constructing an approximately 280,000 gross square-foot (gsf) building containing laboratory/life science uses, office uses, and ground-floor retail.

The Project will provide an underground parking garage with approximately 270 parking spaces as well as 71 covered, secure bicycle parking spaces in the garage and outdoor bicycle racks for 18 bicycles.

The Project development site address is:

Parcel D3.1
50 Webster Avenue
Somerville, MA 02143

Site Access and Plans

The Project is bounded by Massachusetts Bay Transportation Authority (MBTA) tracks to the north, a one-story commercial laundry facility to the south and east (future sites of D3.2 and D3.3), and Prospect Street and Webster Avenue to the west.

The Project is consistent with Somerville master planning thoroughfares and intends to create an east-west access route from Webster Avenue to the east. Vehicular site access is proposed to the Site at an existing curb cut on Webster Street to be improved into a new thoroughfare. A two-way ramp to the underground garage and a ground floor level loading/service area will both be accessed from the new thoroughfare.



Pedestrian entrances to the lobby will be located on the plaza and thoroughfare. Pedestrian access to the ground floor retail uses will be from the plaza and entrances facing Prospect Street. A porte cochere for pick-up and drop-off to the building lobby is adjacent to the thoroughfare.

Illustrative Site Plan

The Illustrative Site Plan shown in Exhibit A.1 (**Appendix A**) depicts the general ground level floor plan and site landscape plan. On the ground level there will be lobby and retail spaces. The ground level will also consist of space for building operations, such as mechanical rooms and storage. Laboratory/research space will be located on the eight upper floors. Parking will be provided in a four-level, 270-space underground garage with 71 sheltered and secured bicycle parking spaces provided within the building.

Transportation Elements Plan

The Transportation Elements Plan is shown in Exhibit A.2 (**Appendix B**). This plan identifies existing transportation elements to remain in grey, items to be removed in red, and proposed transportation elements in blue.

The Proponent will commit to improving the safety and comfort of pedestrians and bicyclists in front of the Project Site in coordination with the City. No modifications are proposed by the Project to the 5-foot bicycle lane on Webster Avenue. No modifications are proposed by the Project to the bus stop (MBTA #85) on Webster Avenue. The sidewalk adjacent to Prospect Street will be eight-feet-wide immediately next to the road, and the Project will provide a plaza area with at least an additional 48 feet of width up to the edge of the building. The sidewalk adjacent to Webster Avenue will be eight-feet-wide immediately next to the road, and the Project will provide at least an additional 40 feet of landscaped area and plaza space up to the buildings. ADA-compliant ramps will be provided adjacent to the Site. The Project will coordinate with the City on final Webster Avenue improvements.

Proposed changes to signage will primarily consist of installation of a stop sign on the thoroughfare westbound approach; no signage changes are proposed on Prospect Street or Webster Avenue. Proposed street furniture, street trees, and streetlights, are included along the sidewalks adjacent to the site on Webster Avenue. Other transportation elements are further discussed in subsequent sections.



Pedestrian Access Plan

The pedestrian entrances to the lobby will be located on both the plaza and the thoroughfare, accessed from Webster Avenue, as shown on Exhibit A.3 (**Appendix C**). The sidewalk along the southeast side of Prospect Street adjacent to the site is proposed at a width of eight feet adjacent to a large pedestrian plaza. The sidewalk along the northeast side of Webster Avenue adjacent to the site is proposed at a width of eight feet adjacent to a large pedestrian plaza. The wider sidewalk is consistent with the high-rise district requirements and provides an improved level of comfort for the public realm. The plaza provides additional pedestrian accommodations and amenities along this critical connection between the Boynton Yards subdistrict and the Union Square Green Line Station.

Bicycle Parking Plan

Sheltered and secure bicycle parking has been planned in accordance with the requirements of the Union Square Overlay District Zoning (section 6.7.13.C.4). Bicycle parking design and layout references and complies with the Somerville Zoning¹, as well as the City of Somerville's *Bicycle Parking Guide* and the Association of Pedestrian and Bicycle Professionals' (APBP's) *Bicycle Parking Guidelines*. Bicycle parking, short- and long-term, will be provided at no cost or fee to users of the Project.

This Project will provide short-term and long-term bicycle parking spaces according to the proposed land uses and size of the Project, per Somerville Zoning requirements. As shown in Exhibit A.4, (**Appendix D**) the Project will provide 18 short-term bicycle parking spaces. Short-term bicycle parking will be provided on outdoor bicycle racks located near the building's primary entrances. The Project will construct 71 secure, covered bicycle parking spaces that will be available for employees. Bicycle parking for the Project will exceed the minimum requirements for bicycle parking.

Bicycle parking will be secured via key-fob access or similar and protected by security/monitoring. The bicycle storage room will be located on the garage level. Cyclists will access the bicycle storage room from the lobby and designated elevators.

Motor Vehicle Parking Plan

The Project will provide 270 parking spaces in a four-level underground garage (see Exhibit A.5. in **Appendix E**). As a shared district garage, the garage for the Project will be commercially operated and open to the public. Motor vehicle parking will be unbundled from any commercial tenant leases

¹ Union Square Zoning (June 9, 2017) and Somerville Zoning Ordinance (December 12, 2019).



as required. Although no minimum off-street parking is required by the Union Square Overlay District Zoning, the Project supports the City of Somerville's goal to-minimize parking supply and encourage alternative modes of transportation.

The Project proposes to sign, designate, and reserve 15% of vehicle parking spaces as Level 2 electric vehicle (EV) charging spaces (42 spaces) and the remaining 85% of garage vehicle parking spaces will be EV-ready spaces. The Project proposes to sign, designate, and reserve two parking spaces for car share vehicles. Fourteen spaces (5%) will be signed, designated, and reserved for carpool/vanpool on weekdays before 10:00 a.m. at preferential locations. If these spaces are not used for a carpool/vanpool by that time, they will be available for general use.

Vehicle Movement Plan

Loading and service operations will occur in the designated loading area in the northeast corner of the building. Vehicles will enter the loading area from the thoroughfare. The loading area will provide space for vehicles to back into the loading bays without impacting the garage access. The loading area will have two doorways. One 30-foot door will provide access to two bays and will accommodate two WB-40 trucks. The other door will be 25-feet-wide and provide access to the trash compactor and one bay for one smaller box truck (SU-30). All vehicle movements exiting the loading area will be forward-out onto the thoroughfare. As shown in Exhibit A.6 (**Appendix F**), the largest vehicles expected to use the loading area are WB-40 trucks.

The loading bay will also provide access to the trash room to remove waste and recycling, as well as an elevated loading dock, a freight elevator, and a service corridor for effortless distribution of deliveries within the building. Garbage pick-up activity will also take place in the loading area with garbage trucks pulling onto the thoroughfare front-first from Webster Avenue before backing into the appropriate loading bay.

Passenger car movements to and from the garage shall be accommodated via the curb cut on the thoroughfare. The proposed garage will have two-way circulation throughout the garage level. Stairway and elevator access is provided from the garage levels to the lobby. The garage facility is not expected to have high turnover, the parking space dimensions in the garage are consistent with the minimums outlined in the Somerville Zoning Ordinance (§9.11 Dimensions of Parking Space and Maneuvering Aisles). The parking spaces will generally be 8.5 feet wide and 18 feet long. The drive aisles will be 25 feet wide or more. Eleven spaces will be ADA-accessible and marked accordingly. Parking dimensions are consistent with the Somerville Zoning Ordinance.

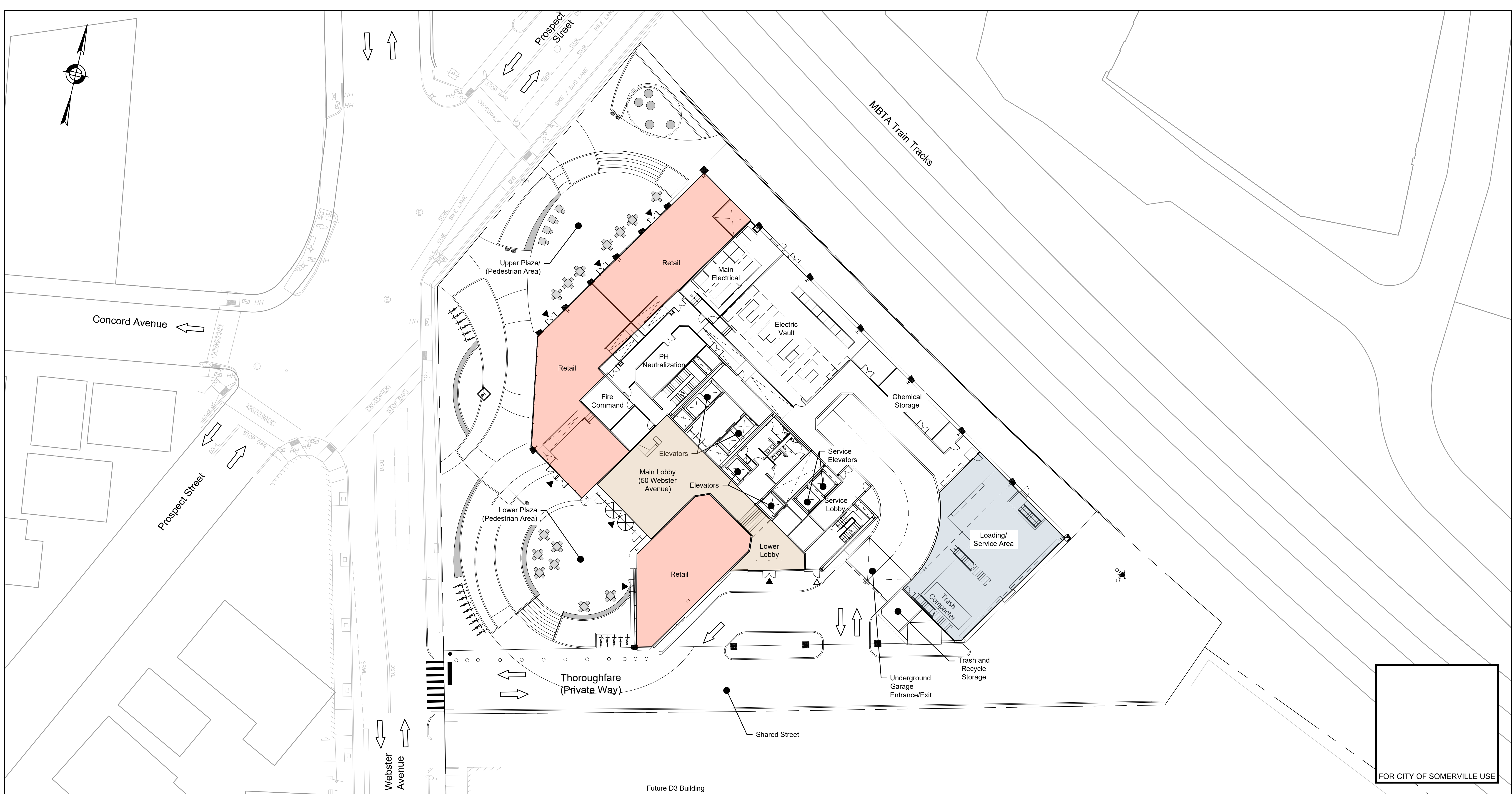


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Appendix A

Illustrative Site Plan



FOR CITY OF SOMERVILLE USE

NOT FOR CONSTRUCTION

	Travel Lane		Retail
	Primary Entrance		Office/Lab
	Secondary Entrance		Common Areas
	Property Line		Delivery/Trash Areas

Notes

1. Existing Lot: 96-A-1

FINAL DESIGN PER		50 WEBSTER AVENUE	
	ILLUSTRATIVE SITE PLAN		EXHIBIT A.1
	 11 Beacon Street, Suite 1010 Boston, MA 02108 www.hshudson.com		
TRANSPORTATION ACCESS PLAN		Date: May 2022	Scale: 1" = 20'-0"

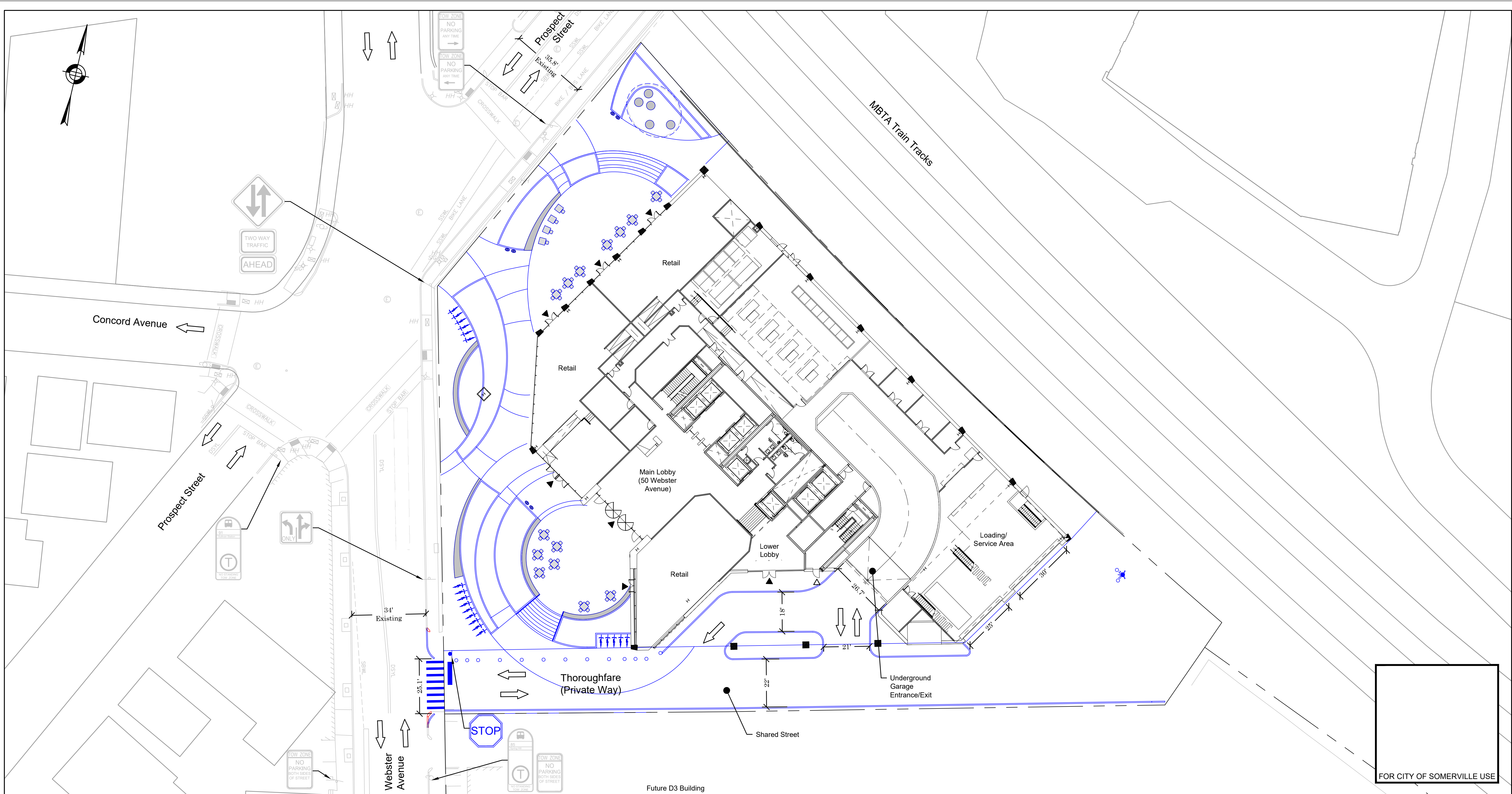


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Appendix B

Transportation Elements Plan



NOT FOR CONSTRUCTION

Travel Lane

Primary Entrance

Secondary Entrance

Property Line

Blue = Proposed Improvements

Grey = Existing Conditions (To Remain)

Red = Elements To Be Removed

Black = Proposed Site

Notes

1. Existing Lot: 96-A-1

FINAL DESIGN PER

TRANSPORTATION ACCESS PLAN

50 WEBSTER AVENUE

TRANSPORTATION ELEMENTS PLAN

11 Beacon Street, Suite 1010
Boston, MA 02108
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Date:
May 2022

Scale:
1" = 20'-0"

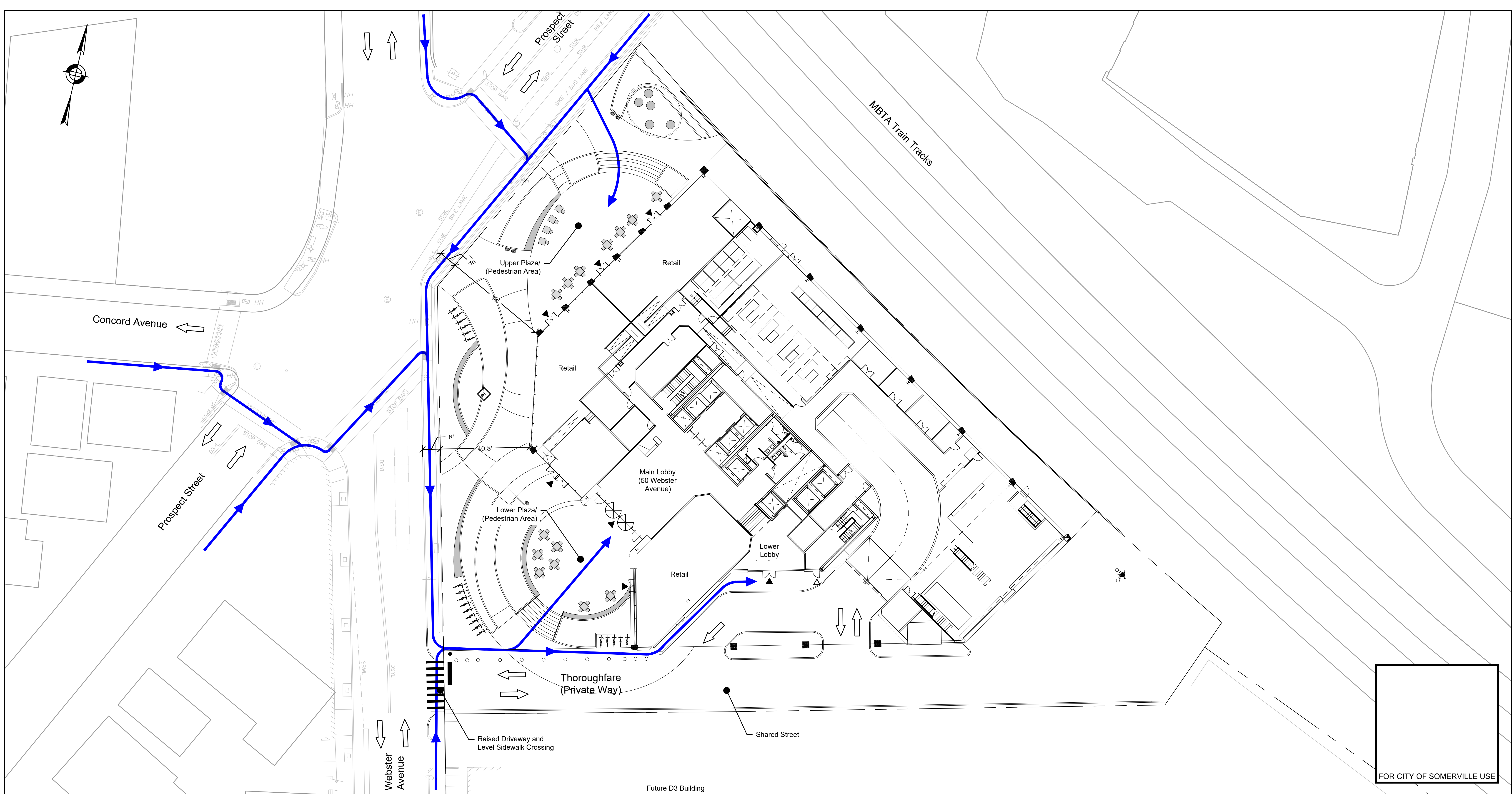


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Appendix C

Pedestrian Access Plan



NOT FOR CONSTRUCTION

Travel Lane

Pedestrian Path of Travel

Primary Entrance

Secondary Entrance

Property Line

Notes

1. Existing Lot: 96-A-1

FINAL DESIGN PER

TRANSPORTATION ACCESS PLAN

50 WEBSTER AVENUE

PEDESTRIAN ACCESS PLAN

HOWARD STEIN HUDSON
11 Beacon Street, Suite 1010
Boston, MA 02108
www.hshudson.com

Date:
May 2022

Scale:
1" = 20'-0"

EXHIBIT
A.3

05/06/22 L:\21121\TAP\2021121.02 TAP.dwg

Last Saved by: VKELLO

Printed by: Vanessa Methoxha

SITE PLAN IS SUBJECT TO REVISIONS BY CITY OF SOMERVILLE

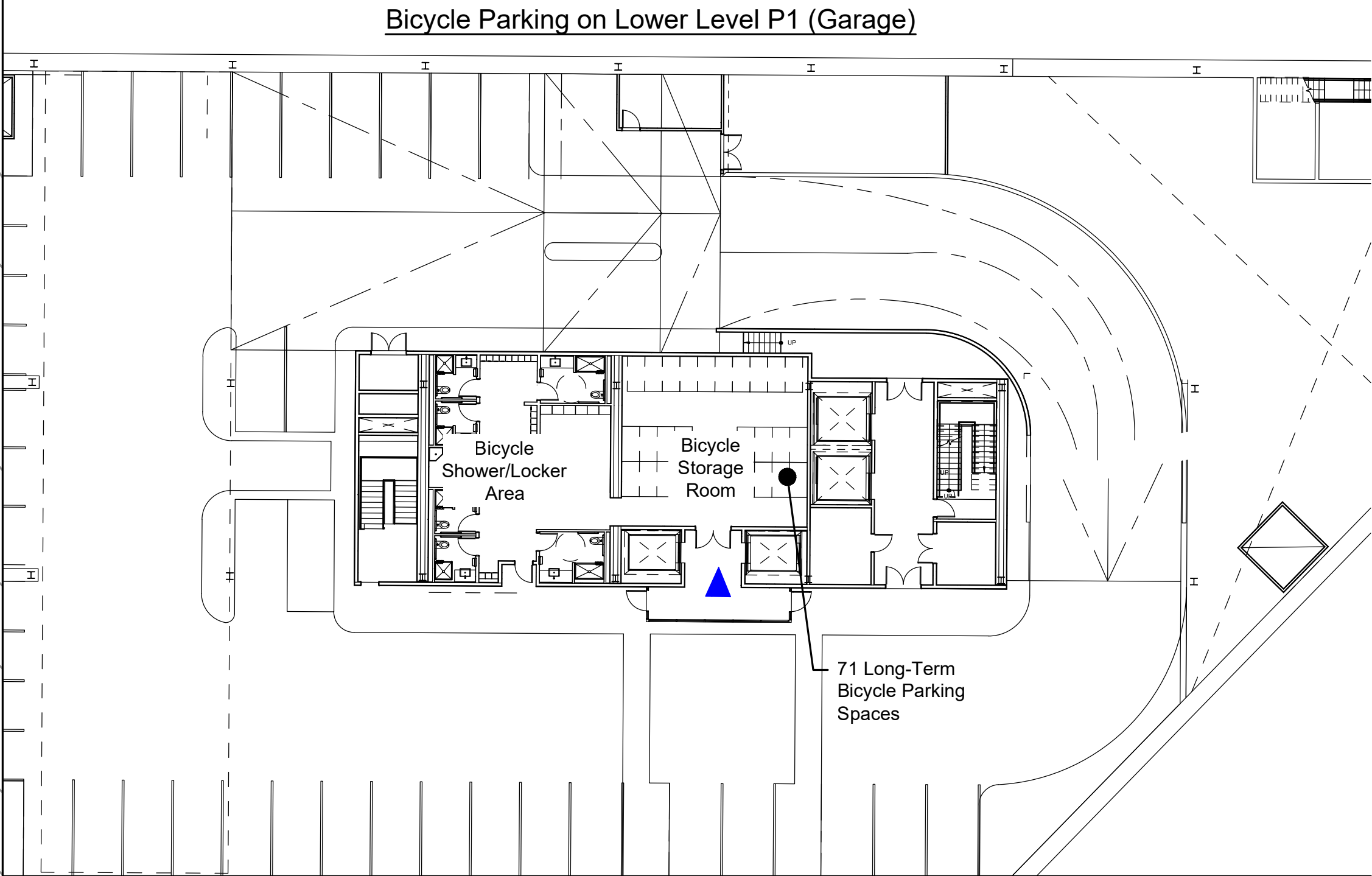
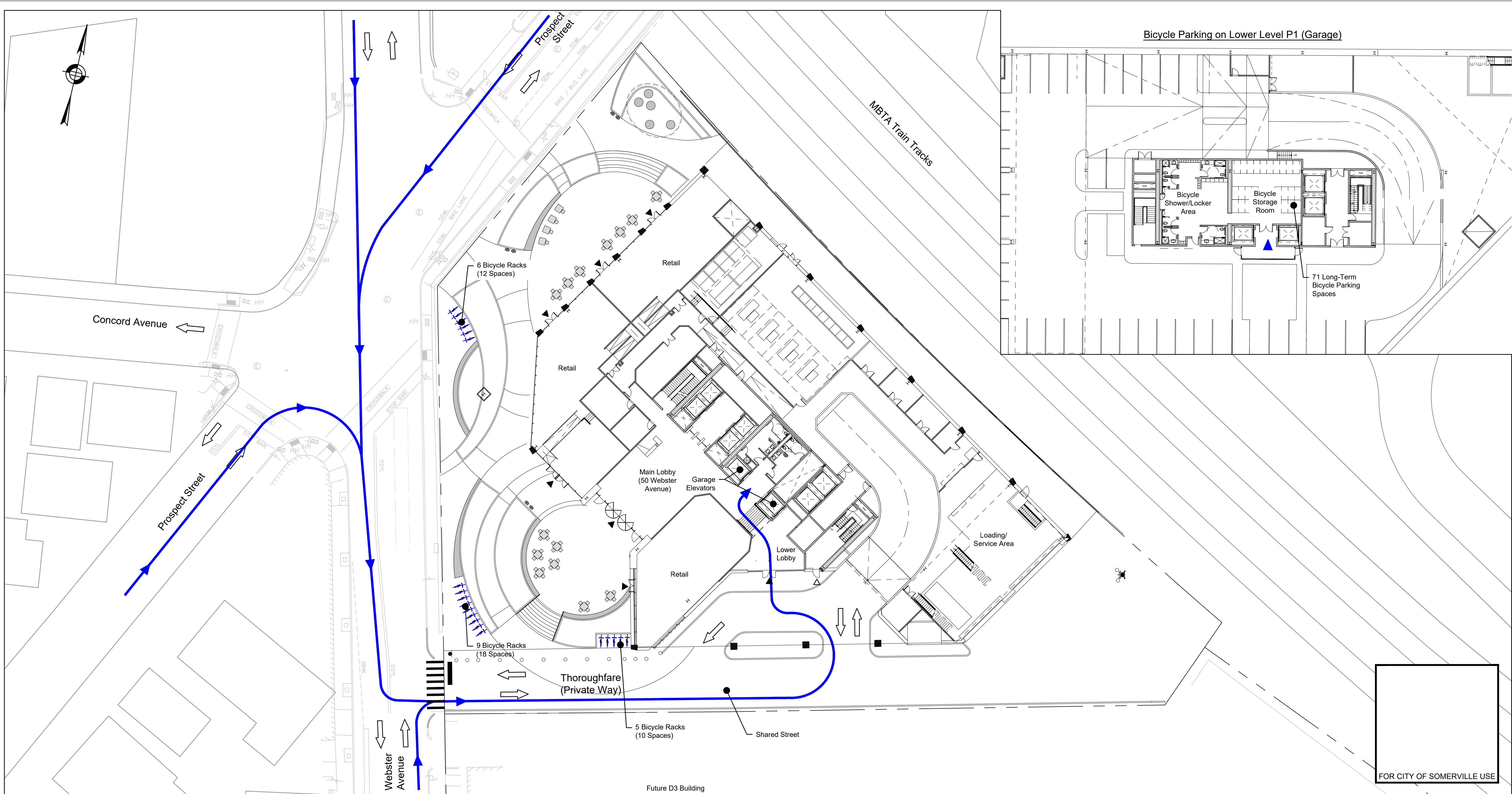


HOWARD STEIN HUDSON

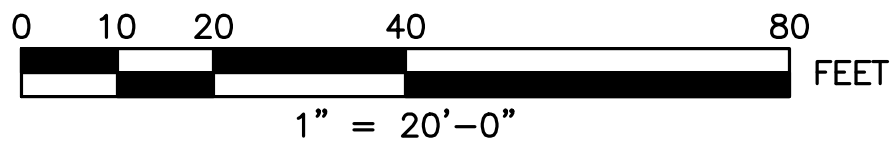
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Appendix D

Bicycle Parking Plan



NOT FOR CONSTRUCTION



Travel Lane

Bicycle Path of Travel

Bicycle Storage Point of Access

Proposed Bike Rack

Property Line

Bicycle Parking Zoning Requirements			Total Bicycle Parking Provided	
	Short-term/Visitor	Long Term	Short-term/Visitor	Long Term
Retail:	1 space per 2,500 sf (3)	1 space per 10,000 sf (1)	40 spaces	71 spaces
Office:	1 space per 20,000 sf (6)	1 space per 3,000 sf (37)		
R&D/Lab:	1 space per 20,000 sf (9)	1 space per 5,000 sf (33)		

Notes

1. Existing Lot: 96-A-1

FINAL DESIGN PER

TRANSPORTATION ACCESS PLAN

50 WEBSTER AVENUE

BICYCLE PARKING PLAN

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Date:
May 2022

Scale:
1" = 20'-0"

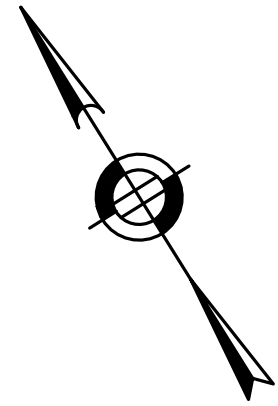


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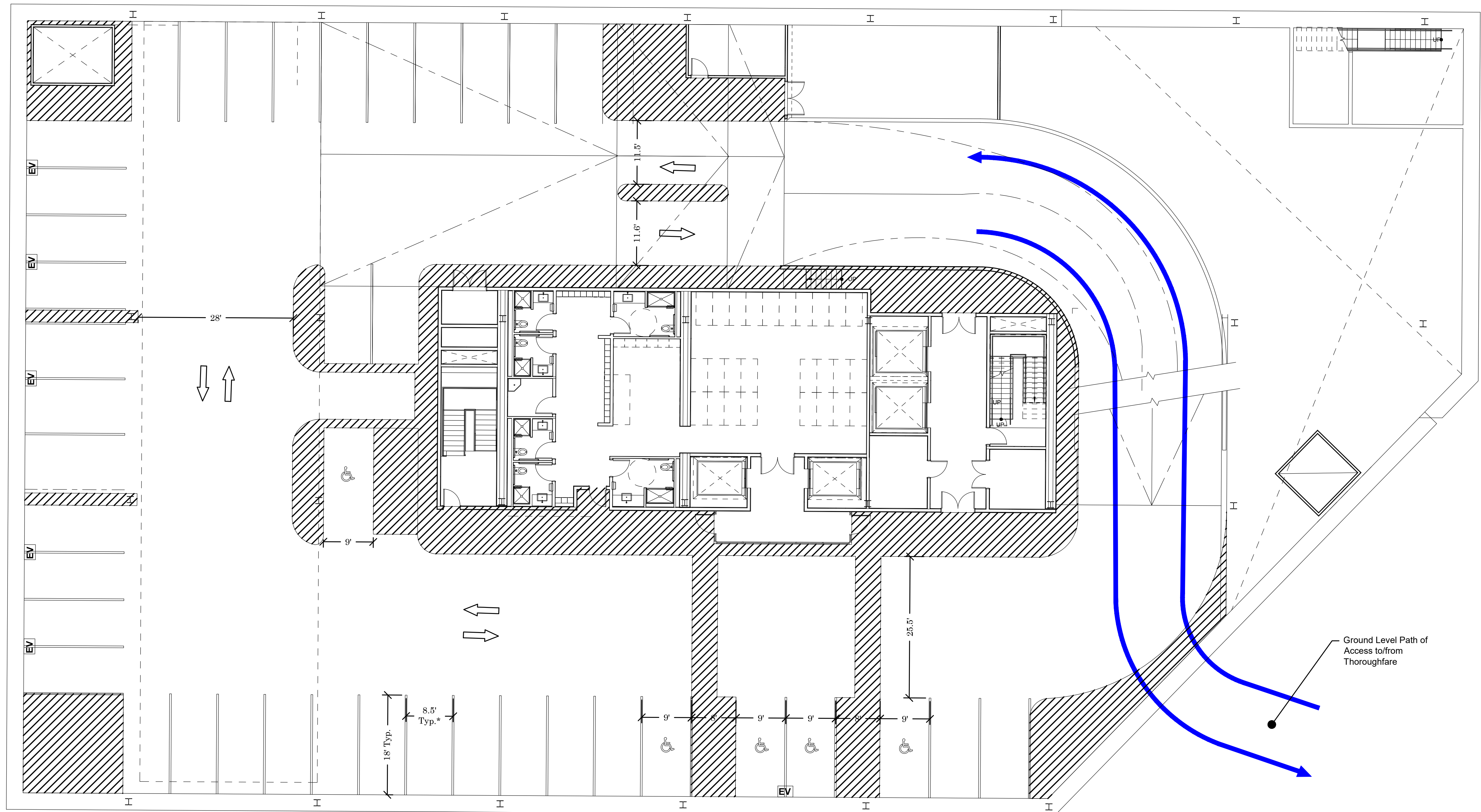
Appendix E

Motor Vehicle Parking Plan



PARKING LEVEL 1
270 Total Garage Spaces

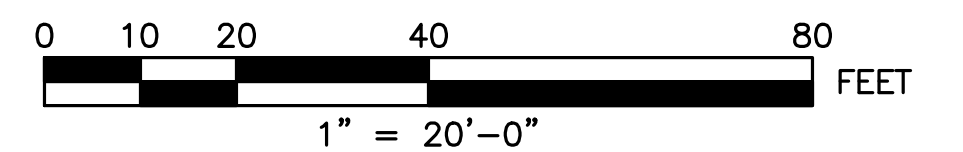
42 Parking Level Spaces
12 Electric Vehicle Spaces
5 Handicap Spaces



* Select spaces are 9' or wider.
All spaces are at least 8.5'.

FOR CITY OF SOMERVILLE USE

NOT FOR CONSTRUCTION



- Flow of Travel
- Vehicle Access
- Property Line
- Electric Vehicle Charging Station

Notes
1. Existing Lot: 96-A-1

FINAL DESIGN PER



TRANSPORTATION ACCESS
PLAN

50 WEBSTER AVENUE

MOTOR VEHICLE
PARKING PLAN

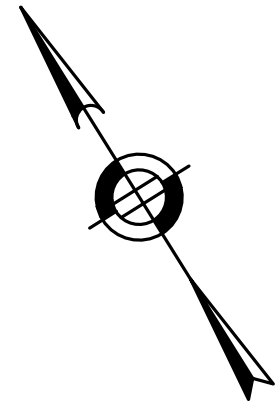
EXHIBIT
A.5.1

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Date:
May 2022

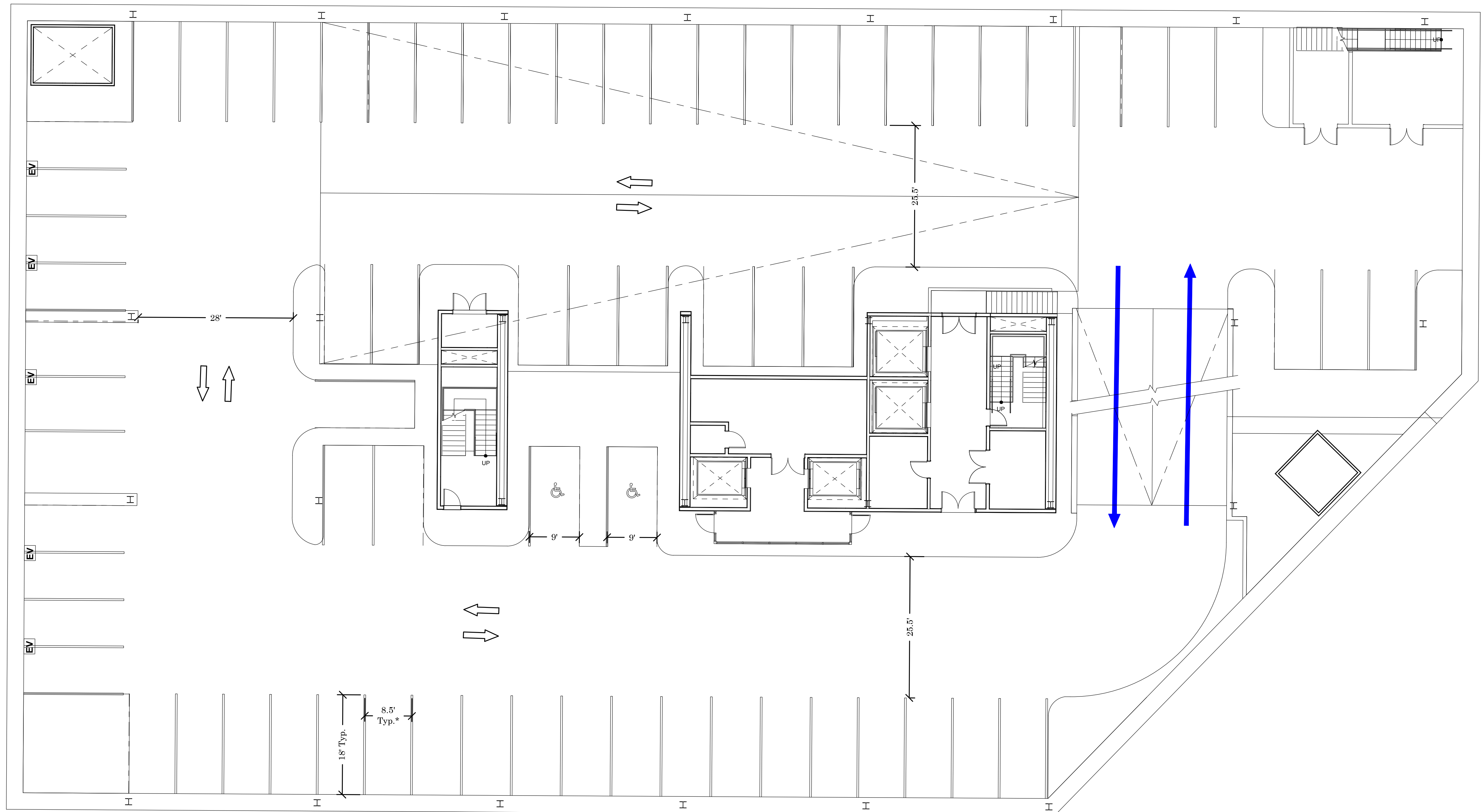
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SITE PLAN IS SUBJECT TO REVISIONS BY CITY OF SOMERVILLE



PARKING LEVEL 2
270 Total Garage Spaces

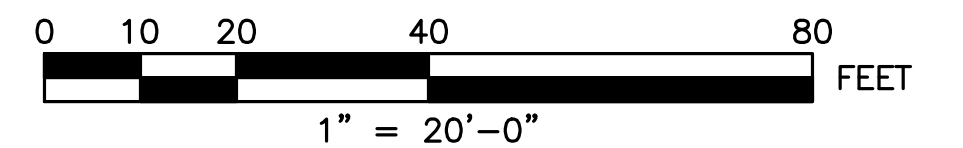
70 Parking Level Spaces
10 Electric Vehicle Spaces
2 Handicap Spaces



* Select spaces are 9' or wider.
All spaces are at least 8.5'.

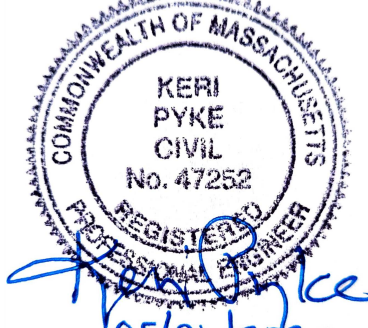

FOR CITY OF SOMERVILLE USE

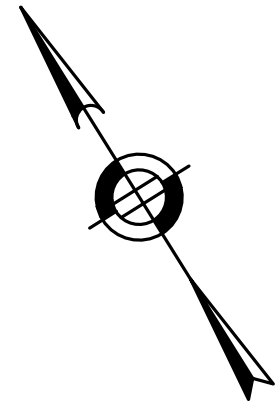
NOT FOR CONSTRUCTION



-  Flow of Travel
-  Vehicle Access
-  Property Line
-  Electric Vehicle Charging Station

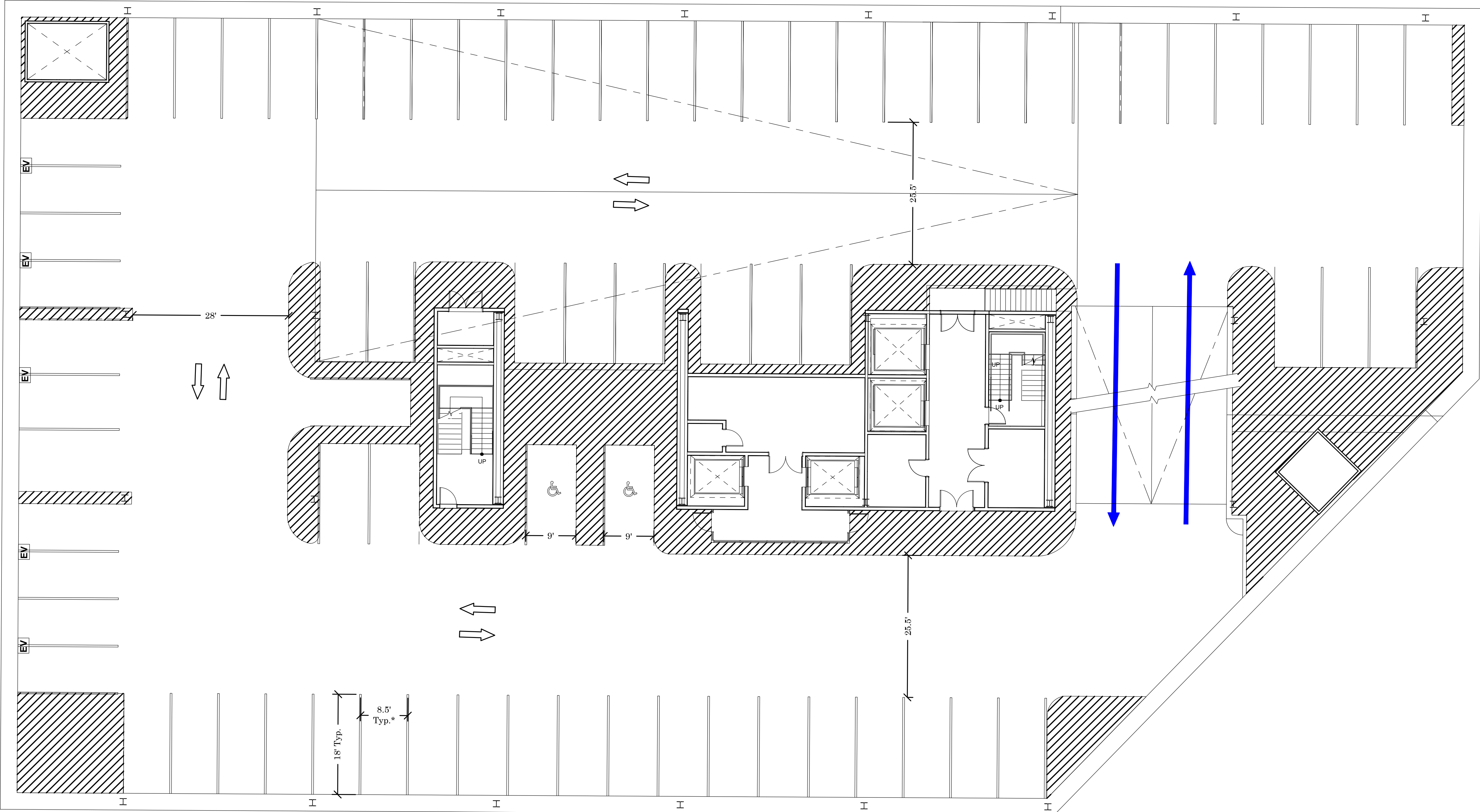
Notes
1. Existing Lot: 96-A-1

FINAL DESIGN PER		50 WEBSTER AVENUE	
 TRANSPORTATION ACCESS PLAN	MOTOR VEHICLE PARKING PLAN		EXHIBIT A.5.2
	 HOWARD STEIN HUDSON 11 Beacon Street, Suite 1010 Boston, MA 02108 www.hshudson.com	Date: May 2022	Scale: 1" = 20'-0"

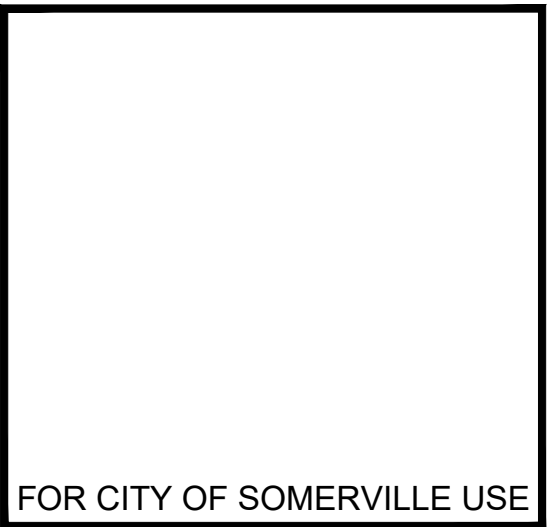


PARKING LEVEL 3
270 Total Garage Spaces

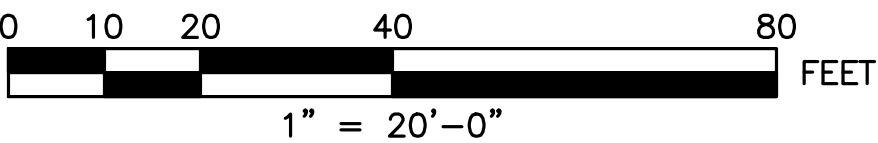
74 Parking Level Spaces
10 Electric Vehicle Spaces
2 Handicap Spaces



* Select spaces are 9' or wider.
All spaces are at least 8.5'.



NOT FOR CONSTRUCTION



Flow of Travel

Electric Vehicle Charging Station

Vehicle Access

Property Line

Notes

1. Existing Lot: 96-A-1

FINAL DESIGN PER

TRANSPORTATION ACCESS PLAN

50 WEBSTER AVENUE

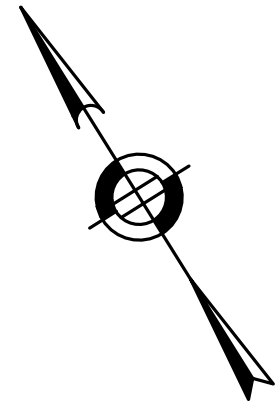
MOTOR VEHICLE PARKING PLAN

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Date:
May 2022

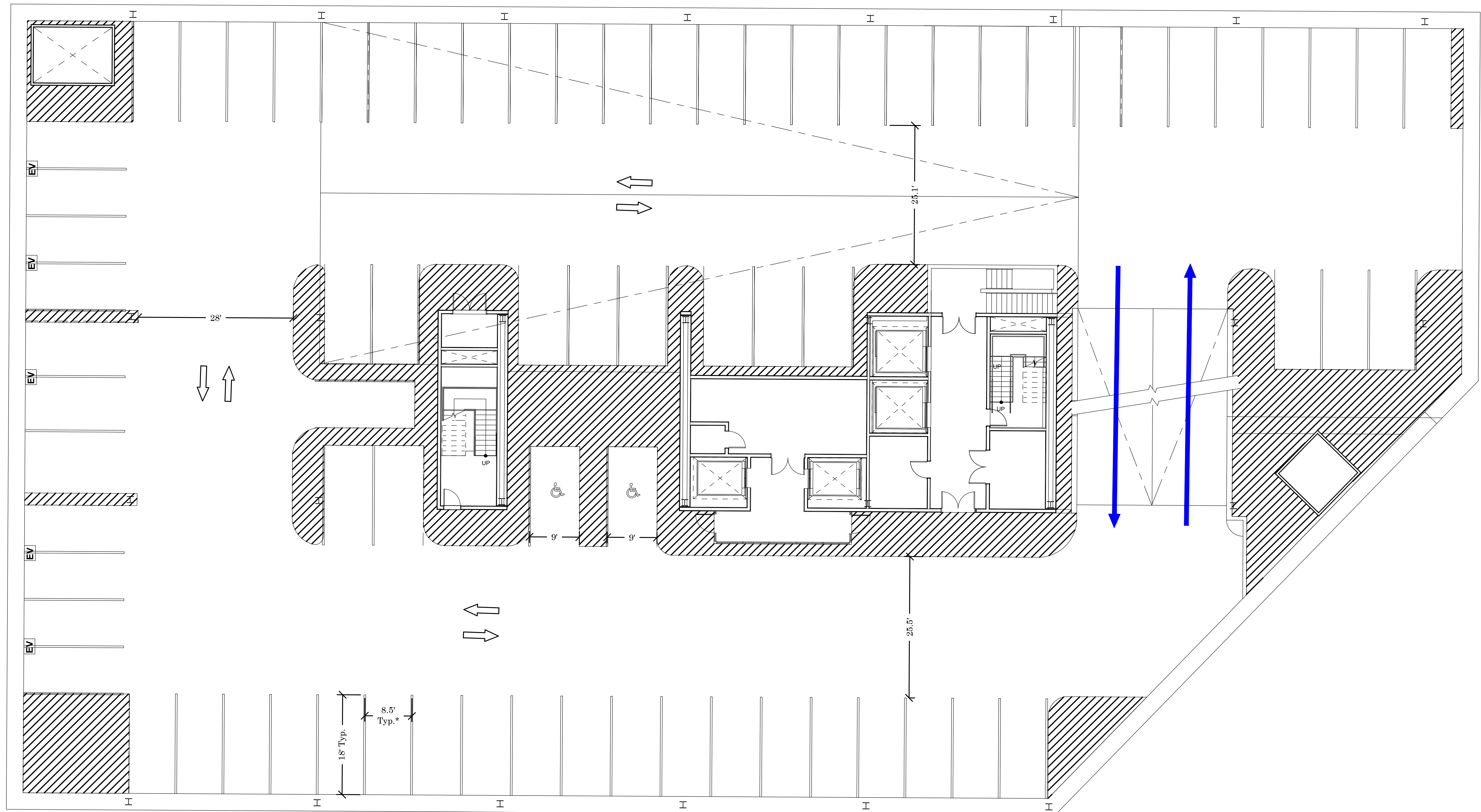
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EXHIBIT A.5.3



PARKING LEVEL 4
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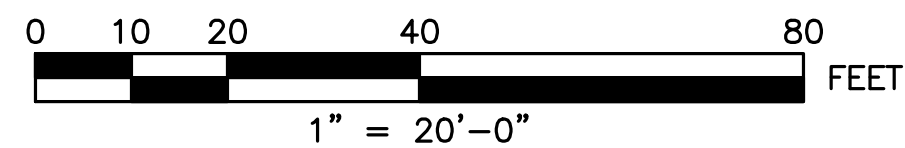
74 Parking Level Spaces
10 Electric Vehicle Spaces
2 Handicap Spaces



* Select spaces are 9' or wider.
All spaces are at least 8.5'.

FOR CITY OF SOMERVILLE USE

NOT FOR CONSTRUCTION



- Flow of Travel
- Electric Vehicle Charging Station
- Vehicle Access
- Property Line

Notes
1. Existing Lot: 96-A-1

FINAL DESIGN PER



TRANSPORTATION ACCESS
PLAN

50 WEBSTER AVENUE

MOTOR VEHICLE
PARKING PLAN

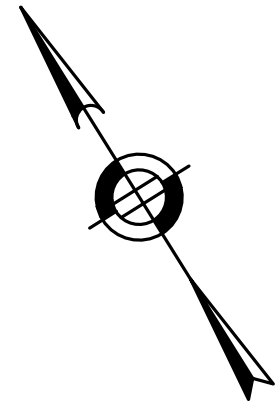
EXHIBIT
A.5.4

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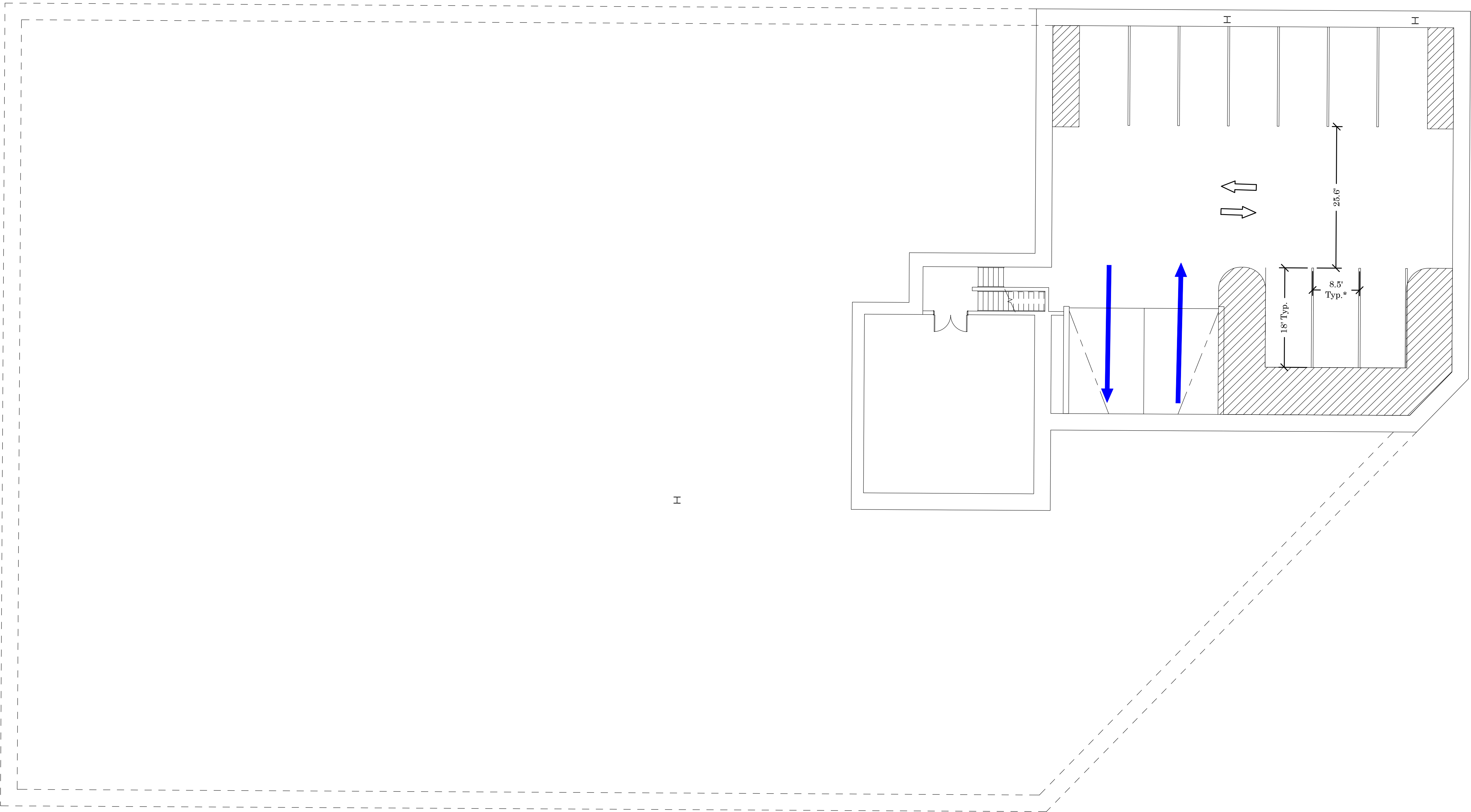
SITE PLAN IS SUBJECT TO REVISIONS BY CITY OF SOMERVILLE



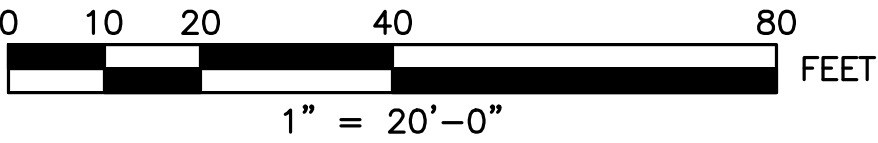
PARKING LEVEL 4.5
270 Total Garage Spaces


10 Parking Level Spaces
0 Electric Vehicle Spaces
0 Handicap Spaces


* Select spaces are 9' or wider.
All spaces are at least 8.5'.




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 Flow of Travel

 Vehicle Access

 Property Line

Notes

1. Existing Lot: 96-A-1

FINAL DESIGN PER



TRANSPORTATION ACCESS PLAN

50 WEBSTER AVENUE

MOTOR VEHICLE PARKING PLAN

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May 2022

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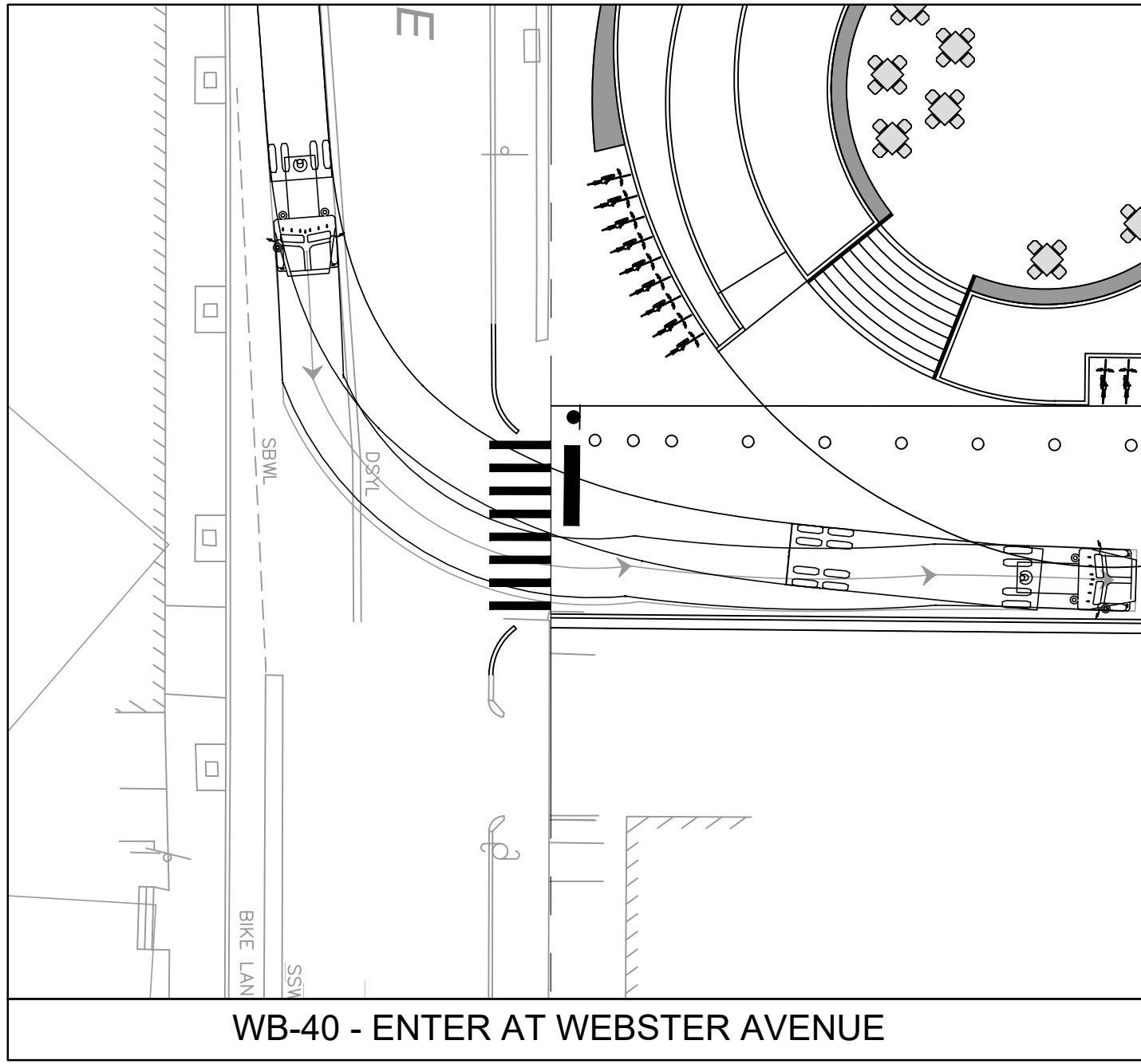


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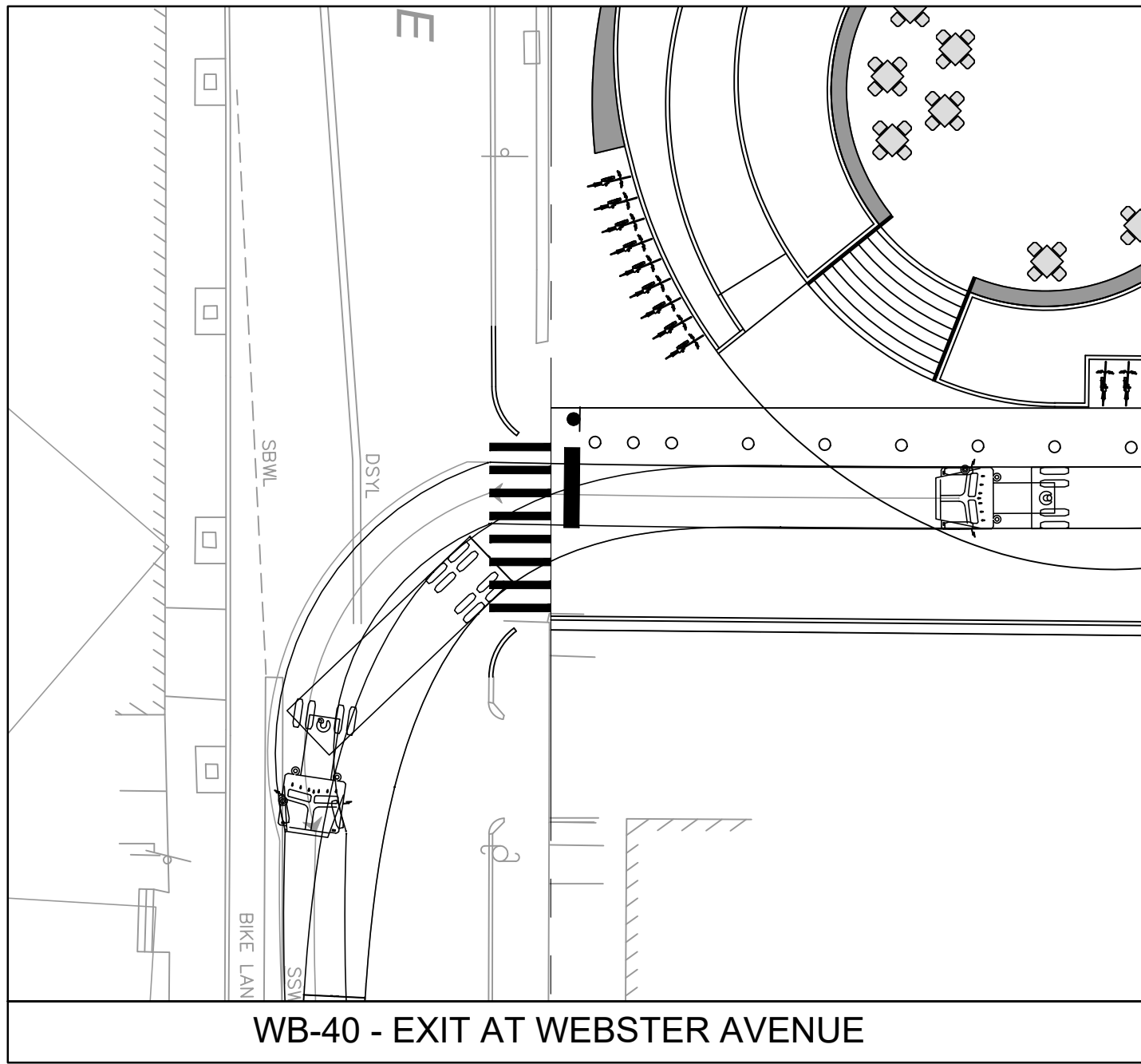
Engineers + Planners

Appendix F

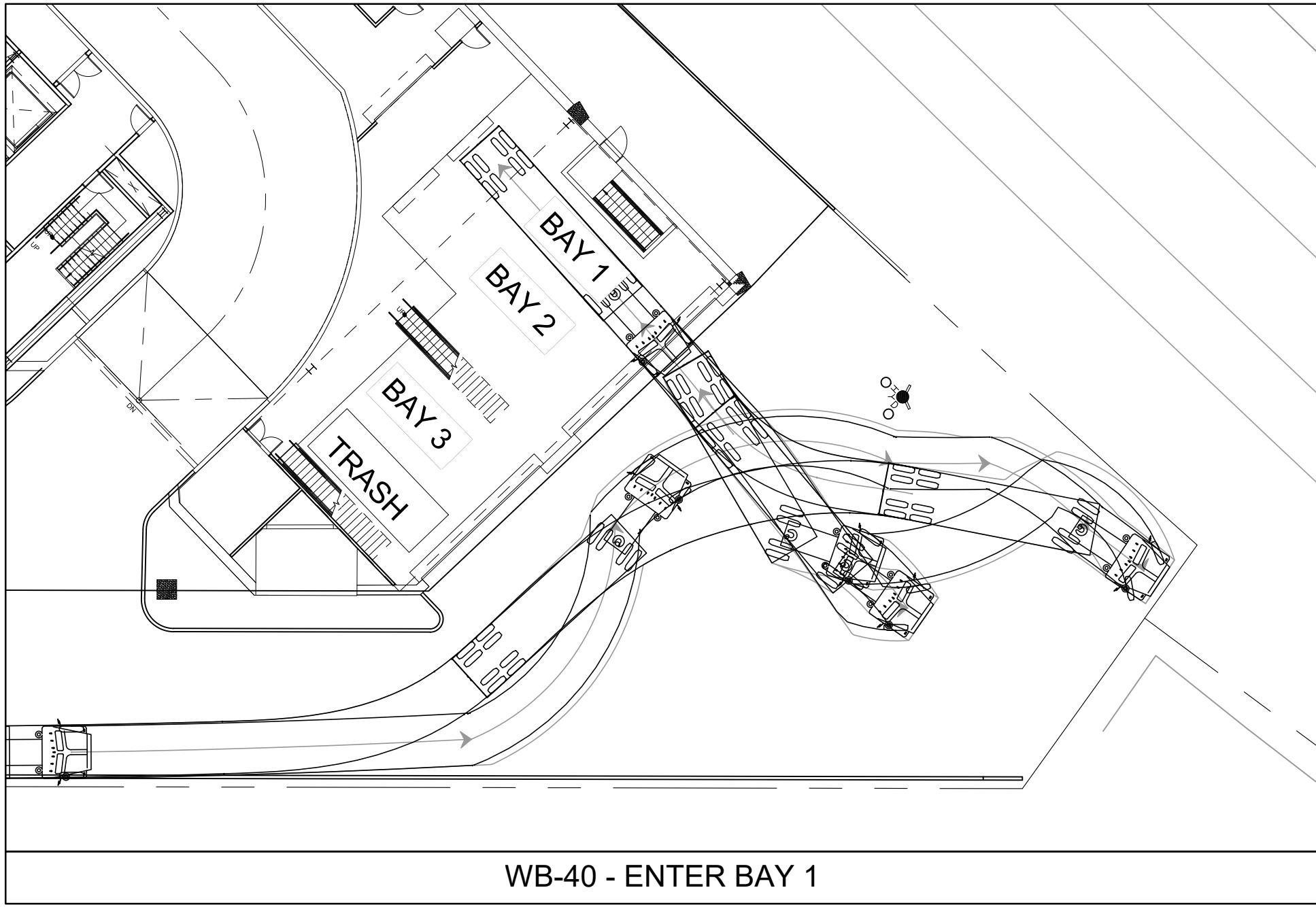
Vehicle Movement Plan



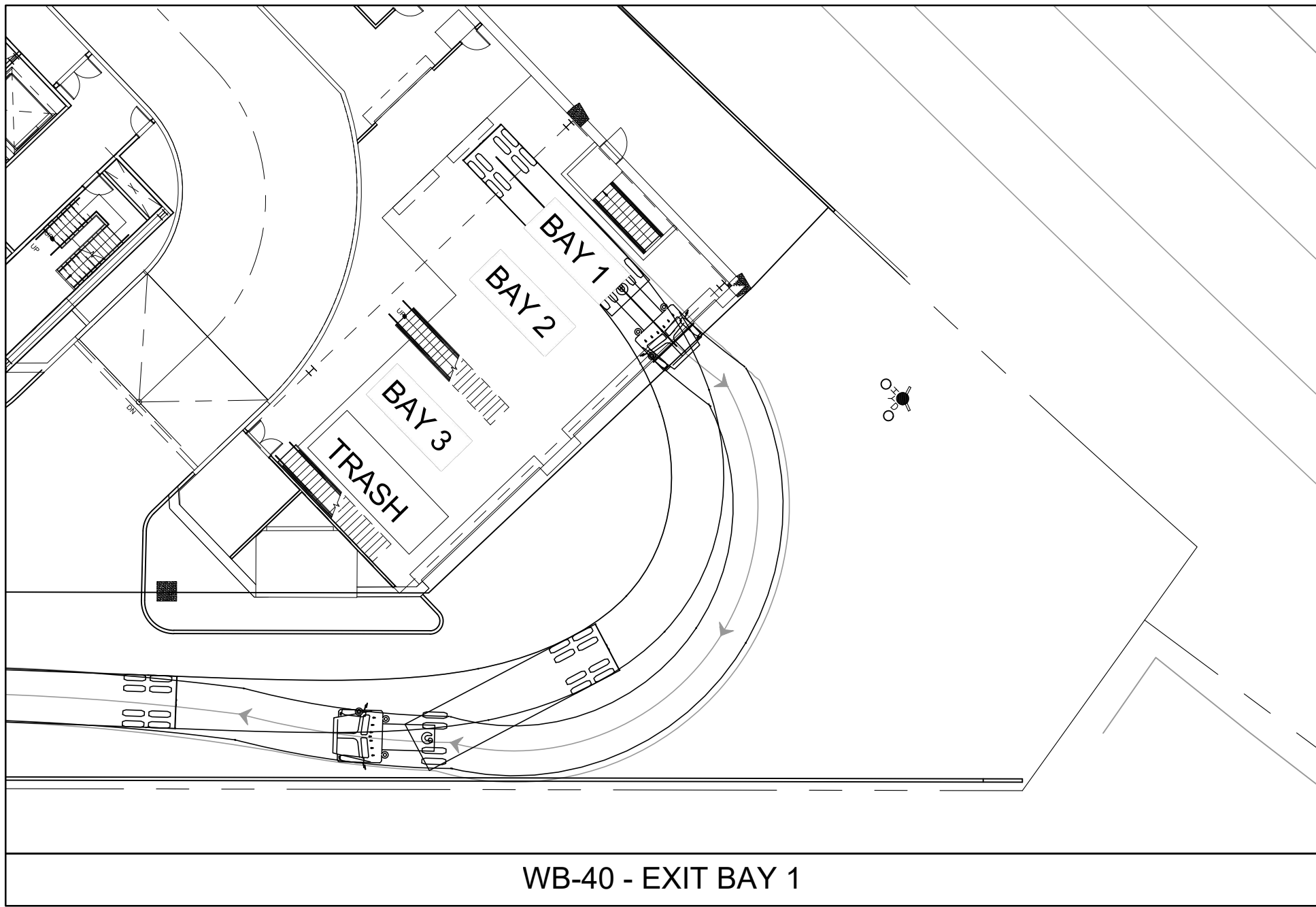
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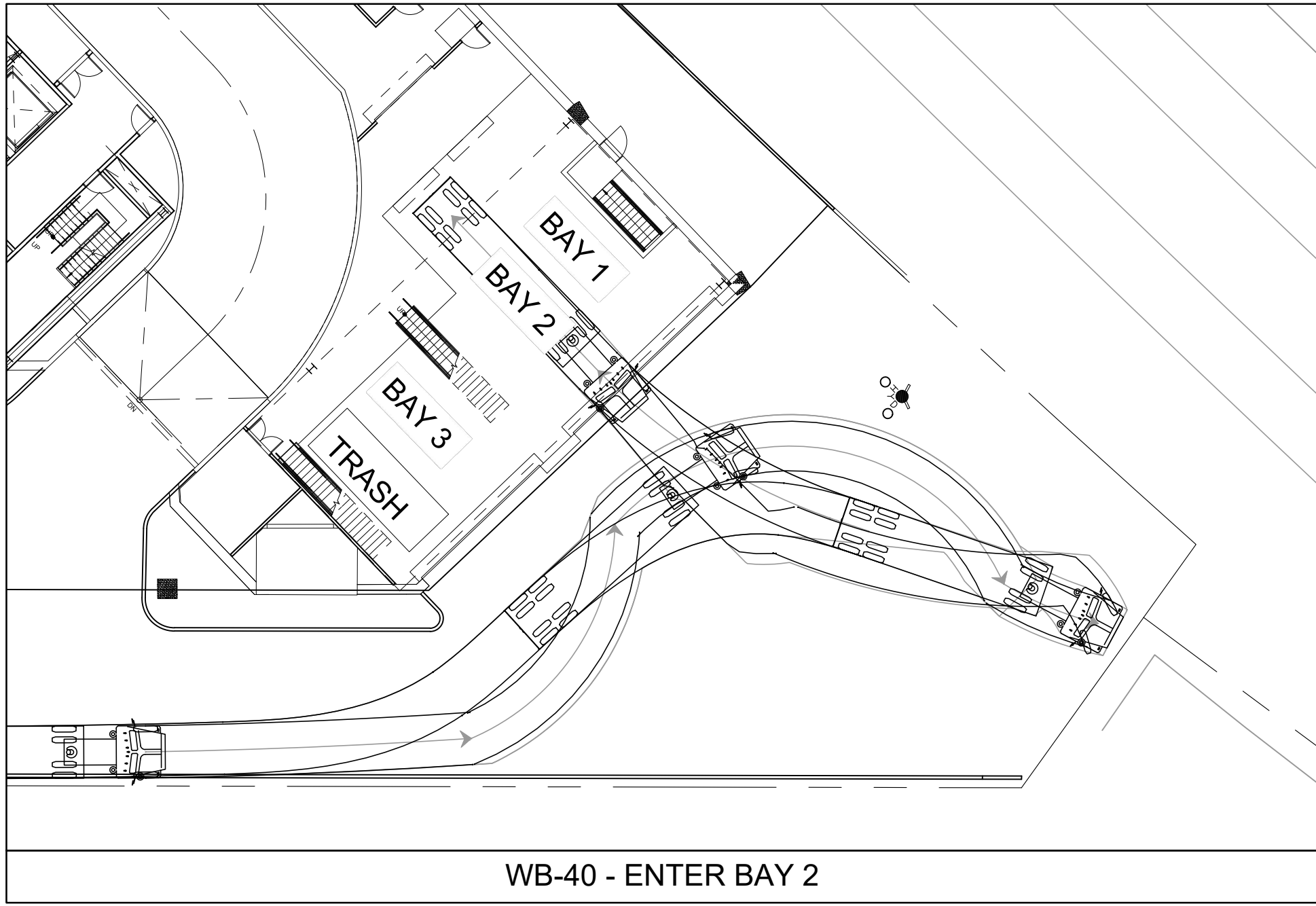
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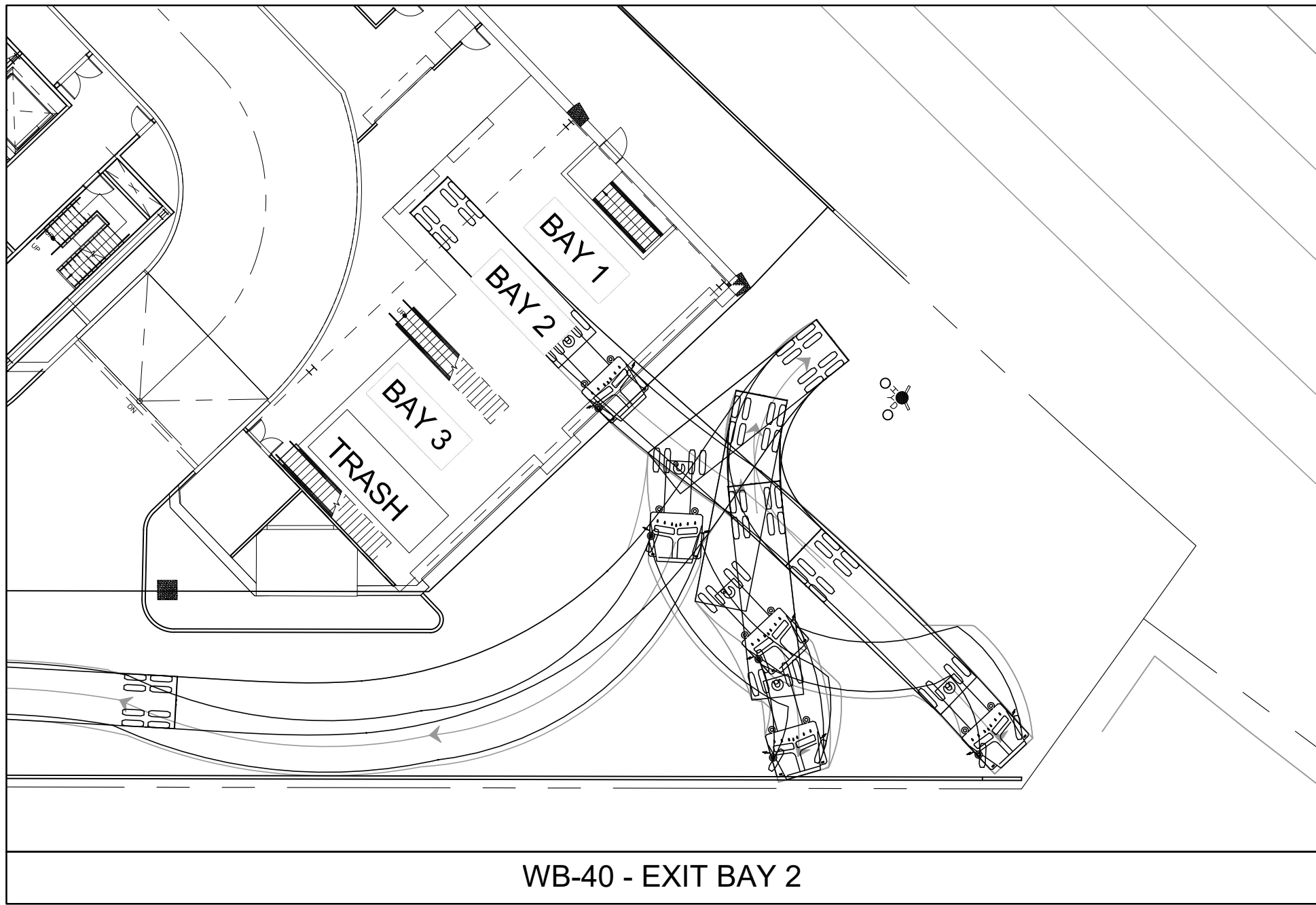
WB-40 - ENTER BAY 1



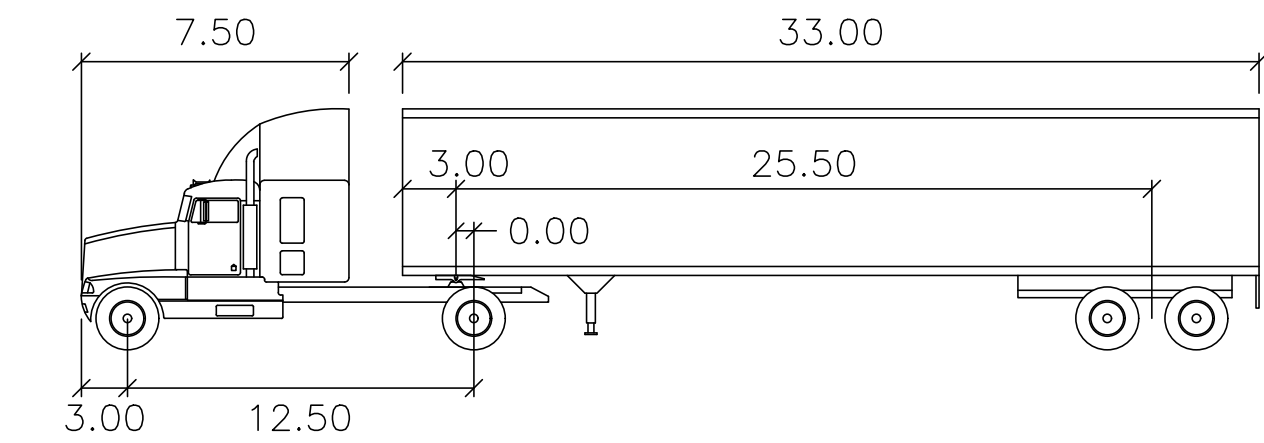
WB-40 - EXIT BAY 1



WB-40 - ENTER BAY 2

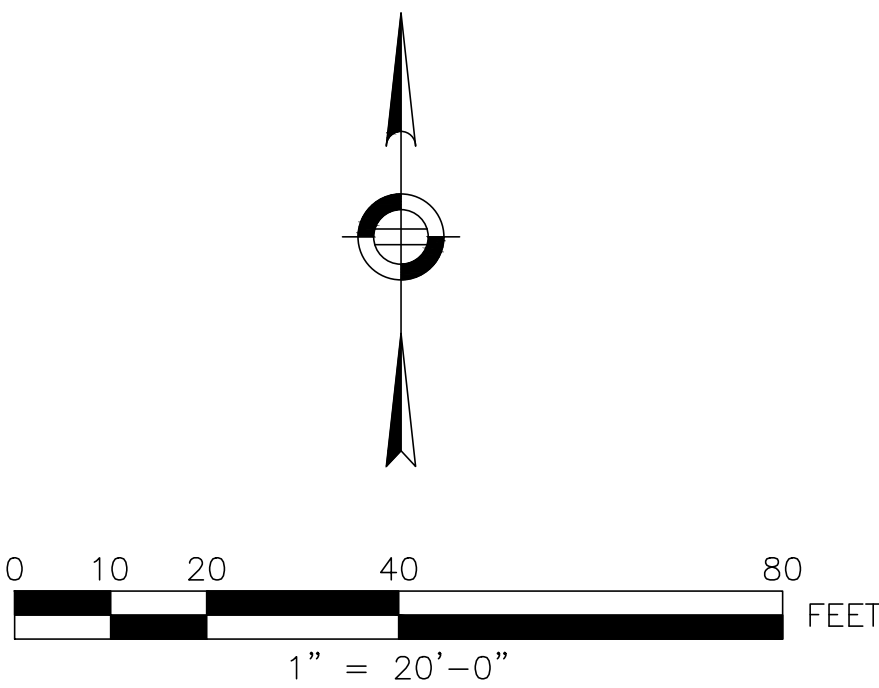


WB-40 - EXIT BAY 2



WB-40

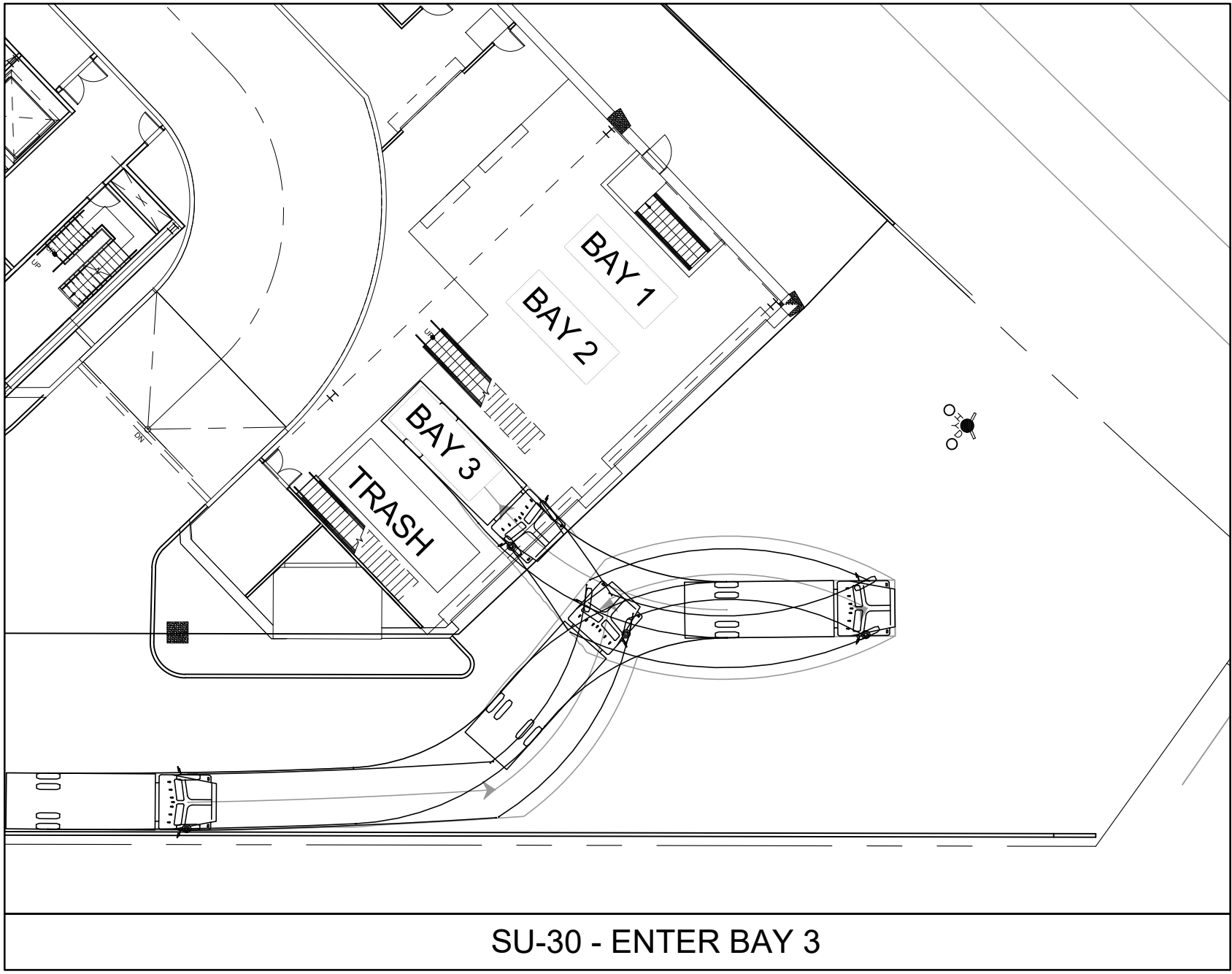
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Trailer Width	: 8.00	Steering Angle	: 20.3
Tractor Track	: 8.00	Articulating Angle	: 70.0
Trailer Track	: 8.00		



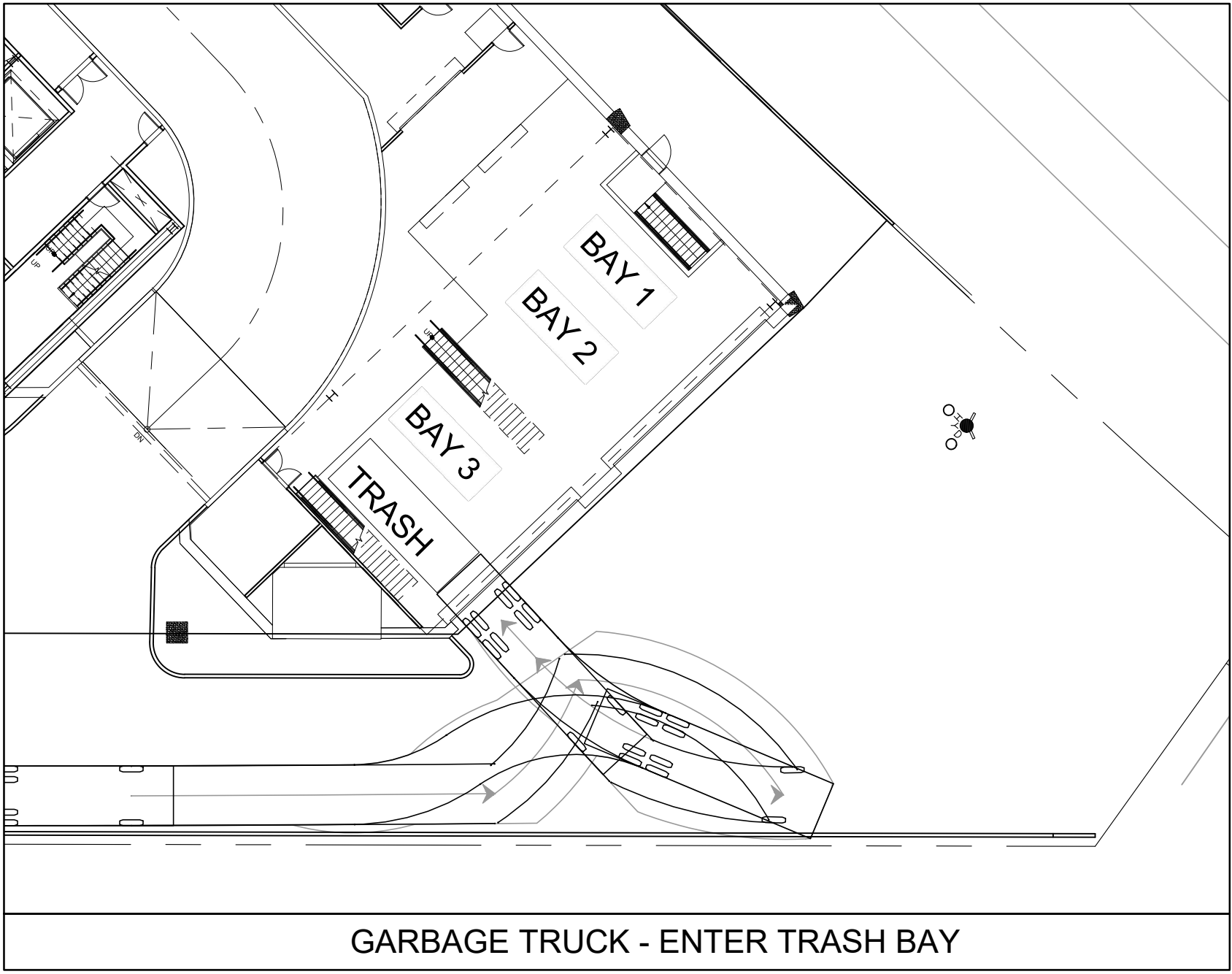
FOR CITY OF SOMERVILLE USE

FINAL DESIGN PER TRANSPORTATION ACCESS PLAN		50 WEBSTER AVENUE VEHICLE MOVEMENT PLAN		EXHIBIT A.6.1
 HOWARD STEIN HUDSON 11 Beacon Street, Suite 1010 Boston, MA 02108 www.hshudson.com		Date: May 2022	Scale: 1" = 20'-0"	

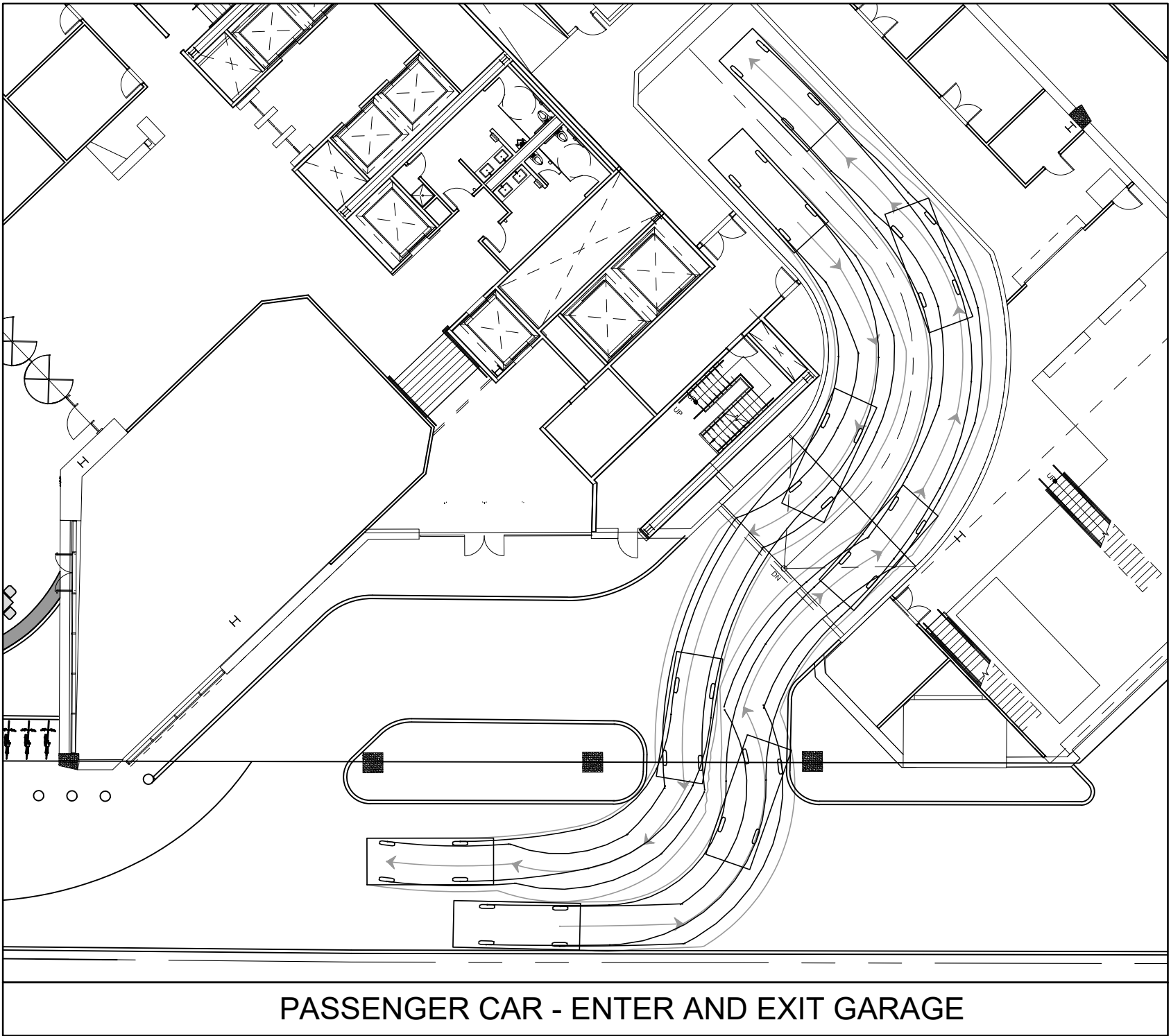
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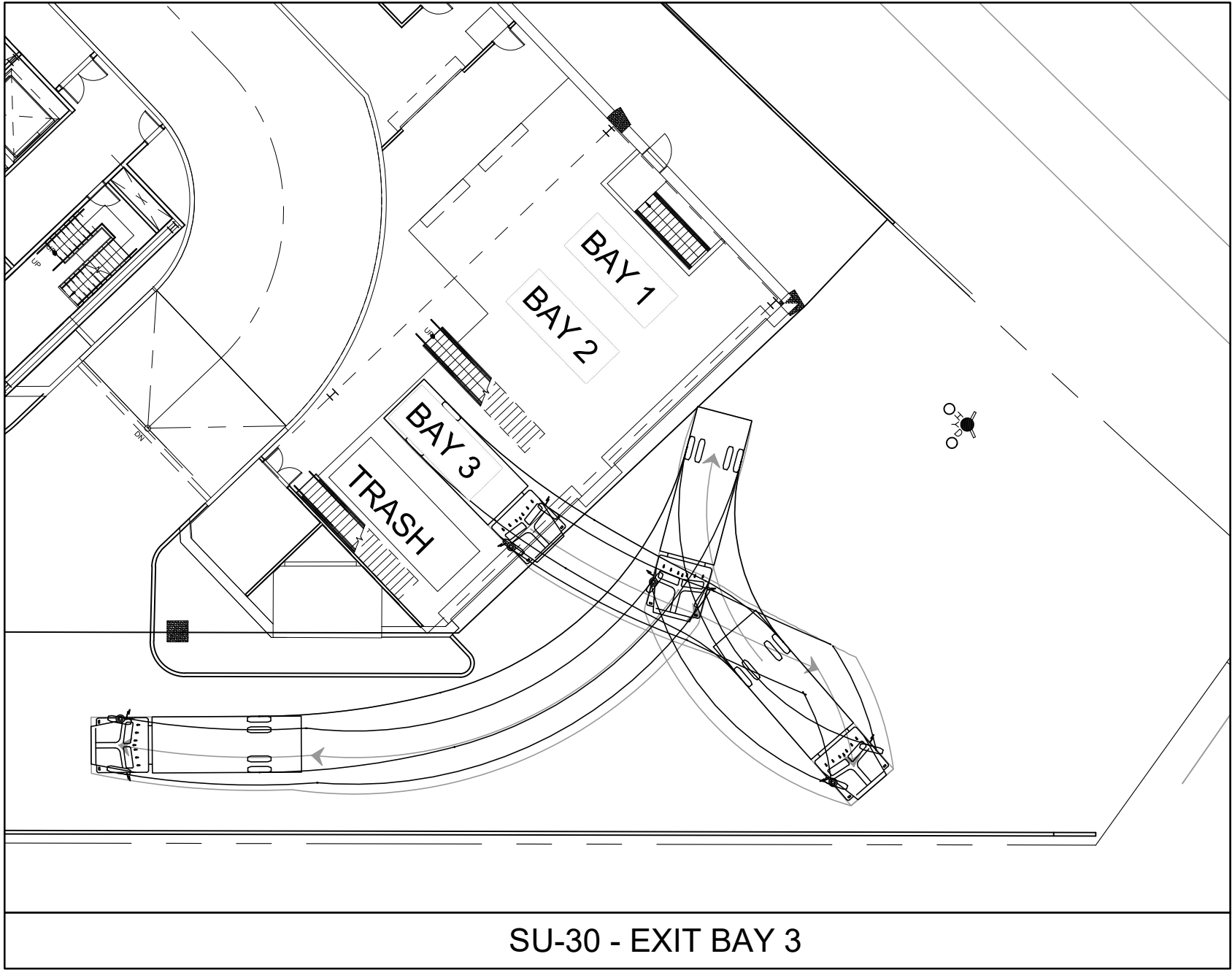
SU-30 - ENTER BAY 3



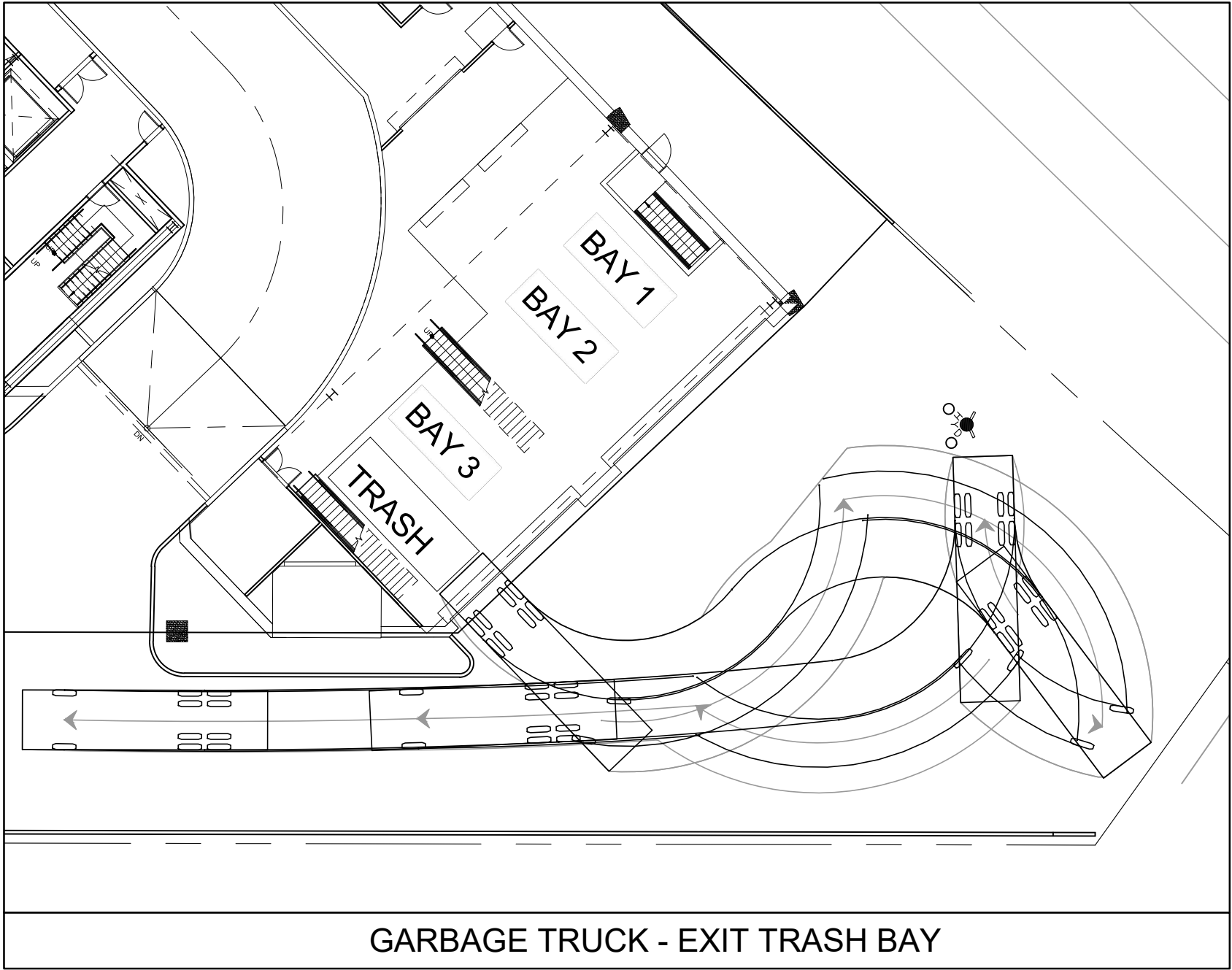
GARBAGE TRUCK - ENTER TRASH BAY



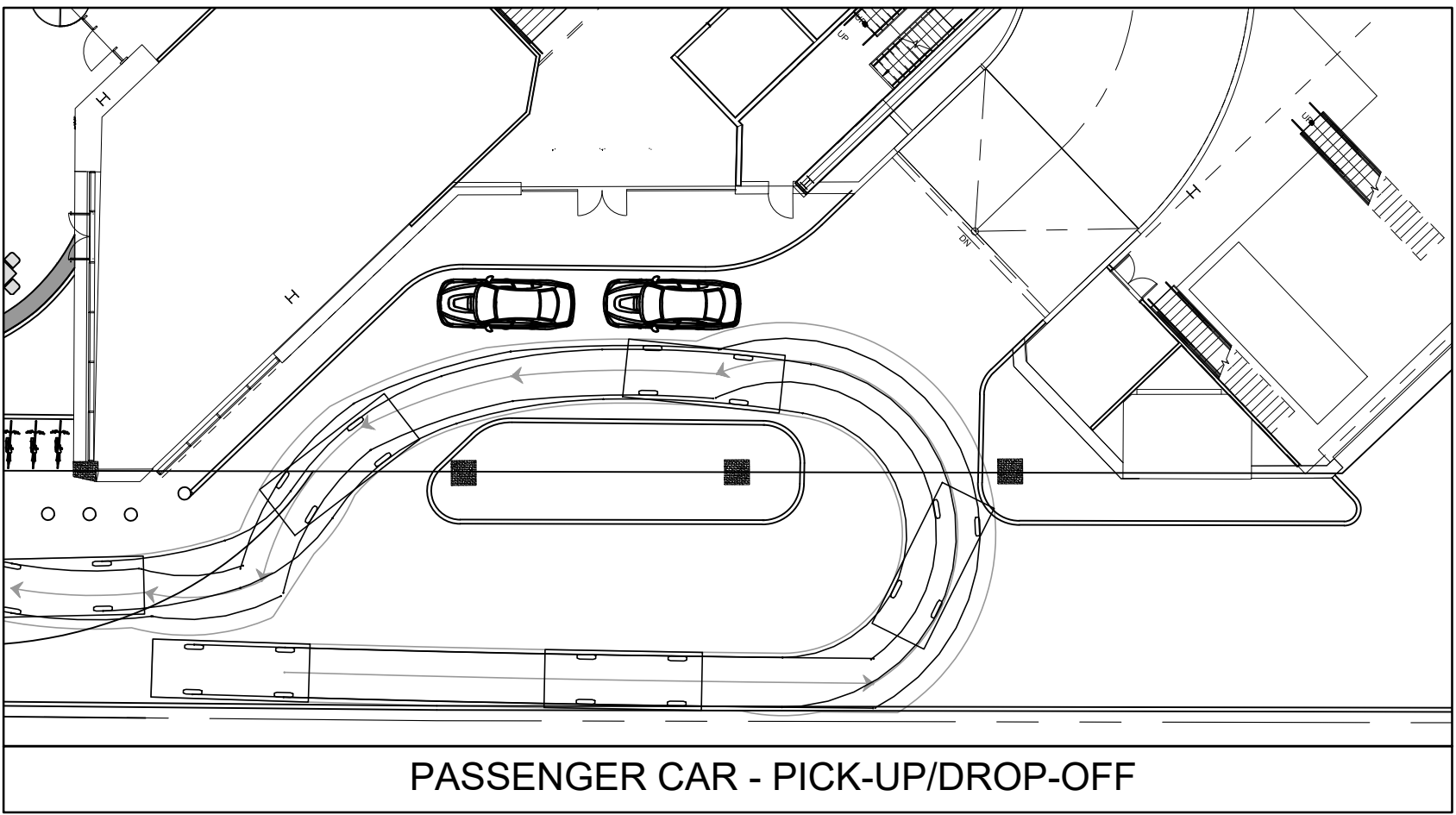
PASSENGER CAR - ENTER AND EXIT GARAGE



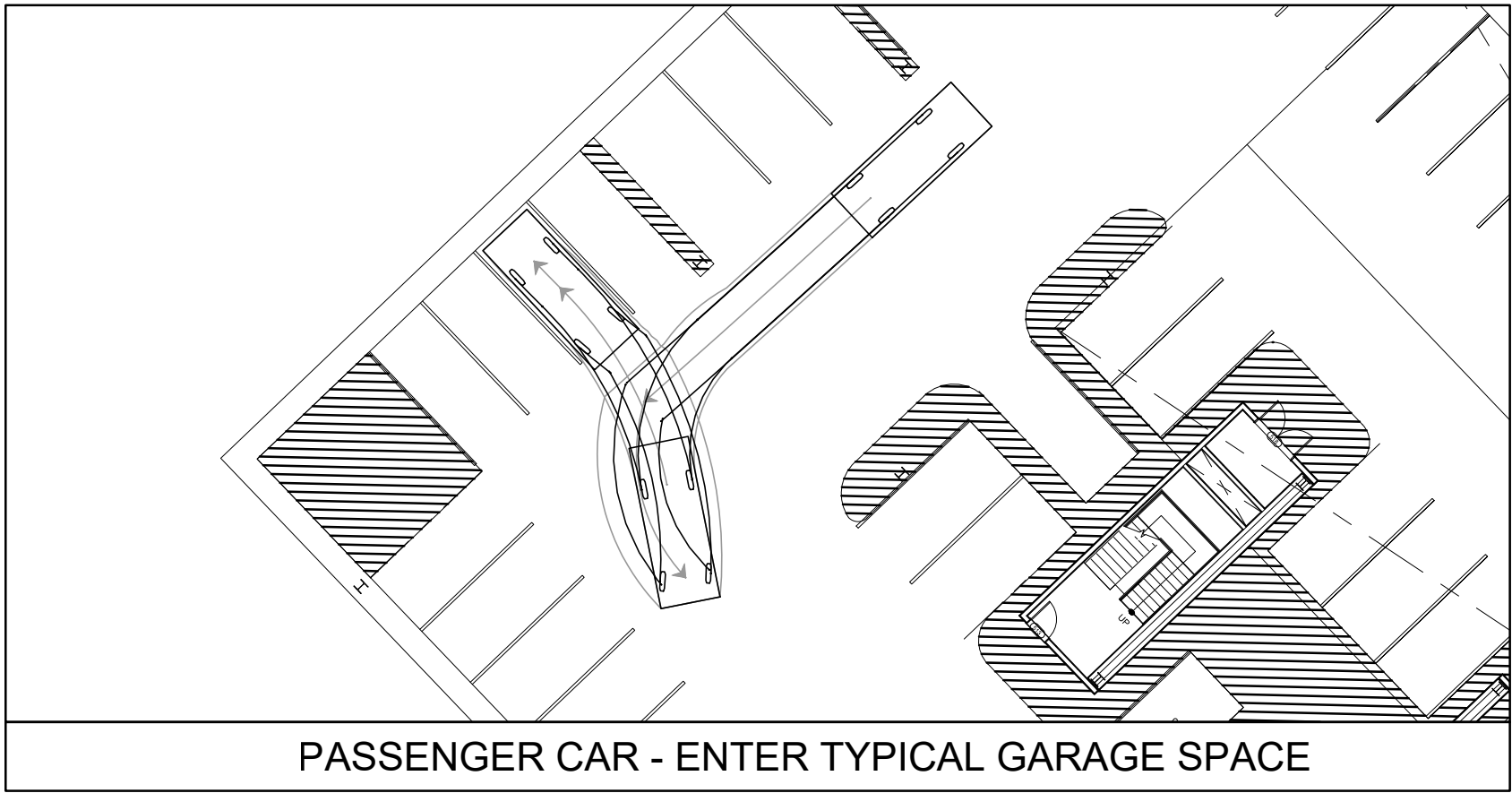
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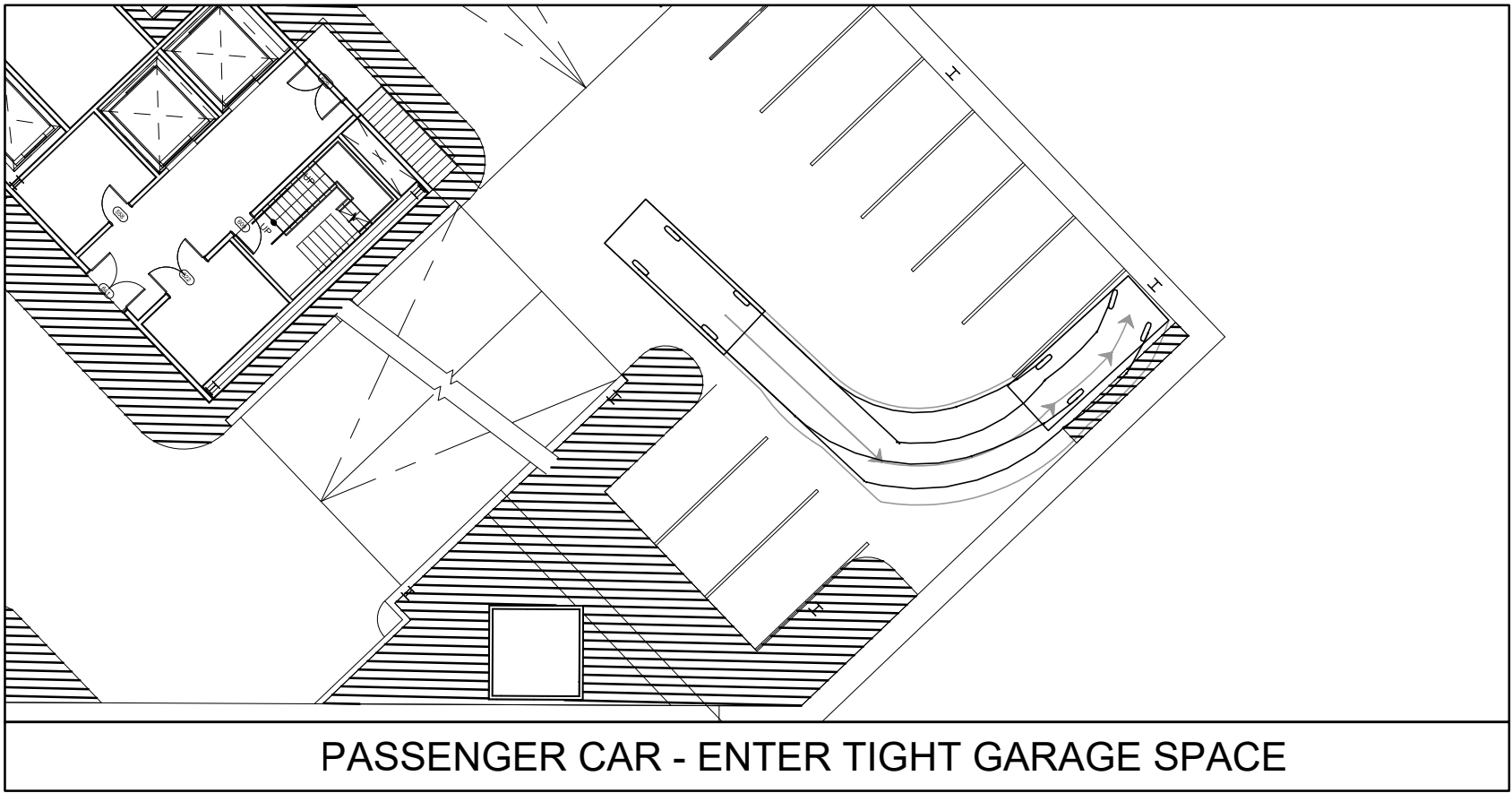
GARBAGE TRUCK - EXIT TRASH BAY



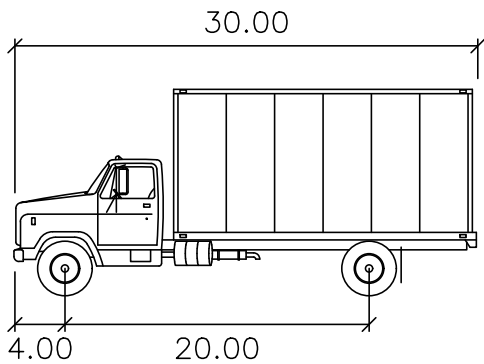
PASSENGER CAR - PICK-UP/DROP-OFF



PASSENGER CAR - ENTER TYPICAL GARAGE SPACE

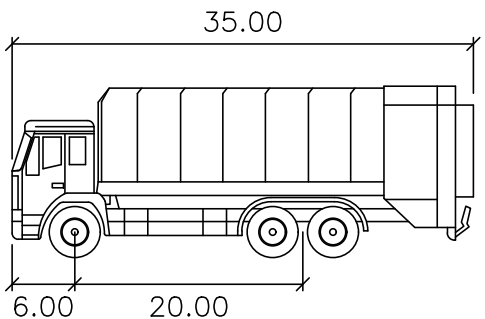


PASSENGER CAR - ENTER TIGHT GARAGE SPACE



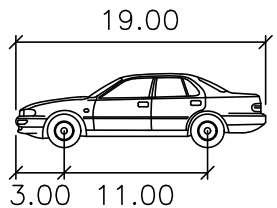
SU-30

	feet
Width	: 8.00
Track	: 8.00
Lock to Lock Time	: 6.0
Steering Angle	: 31.8



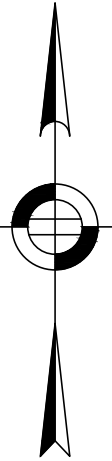
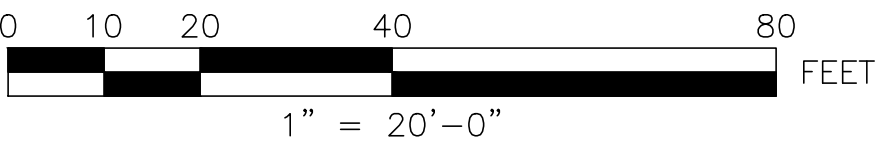
HEAVY GARBAGE

	feet
Width	: 8.50
Track	: 8.50
Lock to Lock Time	: 6.0
Steering Angle	: 40.0



AASHTO 2018 PASSENGER

	feet
Width	: 7.00
Track	: 6.00
Lock to Lock Time	: 6.0
Steering Angle	: 31.6



FOR CITY OF SOMERVILLE USE

FINAL DESIGN PER
KERI
PYKE
CIVIL
No. 47252
REGISTERED PROFESSIONAL ENGINEER
05/06/2022
TRANSPORTATION ACCESS
PLAN

50 WEBSTER AVENUE

VEHICLE
MOVEMENT PLAN

EXHIBIT
A.6.2

HOWARD STEIN HUDSON
11 Beacon Street, Suite 1010
Boston, MA 02108
www.hshudson.com

Date:
May 2022

Scale:
1" = 20'-0"

SITE PLAN IS SUBJECT TO REVISIONS BY CITY OF SOMERVILLE



HOWARD STEIN HUDSON

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Boston, Massachusetts 02108
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