

APPENDIX M  
SHADE AND SHADOW STUDY



EXISTING - SUMMER SOLSTICE 10AM  
1" = 100'-0" ②



EXISTING - SUMMER SOLSTICE 8AM  
1" = 100'-0" ①



EXISTING - SUMMER SOLSTICE 2PM  
1" = 100'-0" ④

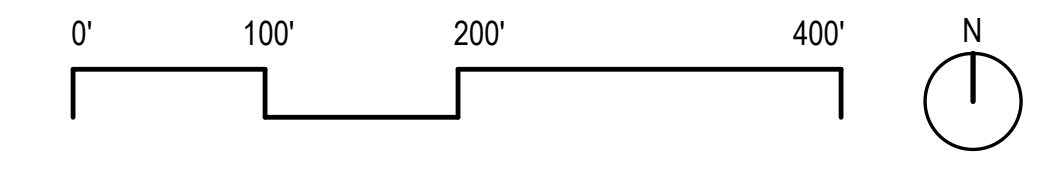


EXISTING - SUMMER SOLSTICE 12PM  
1" = 100'-0" ③

PAUL MURDOCH ARCHITECTS

6310 SAN VICENTE BLVD SUITE 400  
LOS ANGELES, CALIFORNIA 90048  
310.358.0983

THE DRAWINGS AND SPECIFICATIONS AND IDEAS, DESIGN, AND ARRANGEMENTS REPRESENTED THEREIN ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT, AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS, OR USED IN CONNECTION WITH ANY WORK OR PROJECT FROM THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR REVIEW BEFORE PROCEEDING WITH FABRICATION.



NO.	DATE	REVISION
BEACH CITIES HEALTH DISTRICT HEALTHY LIVING CAMPUS		
514 NORTH PROSPECT AVE. REDONDO BEACH, CA 90277		
PMA PROJECT NO. 19010		
DRAWING TITLE: EXISTING SHADE/SHADOW SUMMER SOLSTICE		
SCALE: 1" = 100'-0"		
DATE: 02/01/2021		
DRAWN: EC		CHECKED: PM
SHEET NO.		
(E) A400		

BEACH CITIES HEALTH DISTRICT HEALTHY LIVING CAMPUS

514 NORTH PROSPECT AVE. REDONDO BEACH, CA 90277

PMA PROJECT NO. 19010

DRAWING TITLE: EXISTING SHADE/SHADOW SUMMER SOLSTICE

SCALE: 1" = 100'-0"

DATE: 02/01/2021

DRAWN: EC CHECKED: PM

SHEET NO.

(E) A400

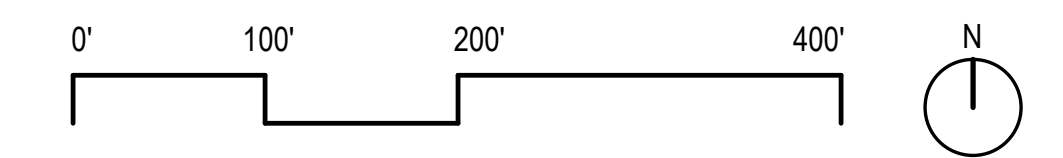


EXISTING - SUMMER SOLSTICE 6PM ②  
1" = 100'-0"

--- BCHD SITE SHADOW OUTLINE



EXISTING - SUMMER SOLSTICE 4PM ①  
1" = 100'-0"



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6310 SAN VICENTE BLVD SUITE 400  
LOS ANGELES, CALIFORNIA 90048  
310.558.0963

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BEACH CITIES HEALTH DISTRICT HEALTHY LIVING CAMPUS

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REDONDO BEACH, CA 90277

PMA PROJECT NO.  
19010

DRAWING TITLE  
EXISTING SHADE/SHADOW SUMMER SOLSTICE

SCALE  
1" = 100'-0"

DATE  
02/01/2021

DRAWN CHECKED  
EC PM

SHEET NO.

(E) A401



EXISTING - WINTER SOLSTICE 10AM ②  
1" = 100'-0"



EXISTING - WINTER SOLSTICE 8AM ①  
1" = 100'-0"



EXISTING - WINTER SOLSTICE 2PM ④  
1" = 100'-0"

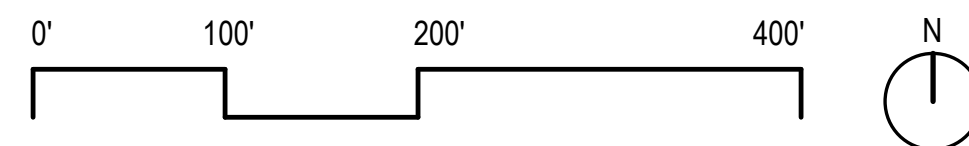
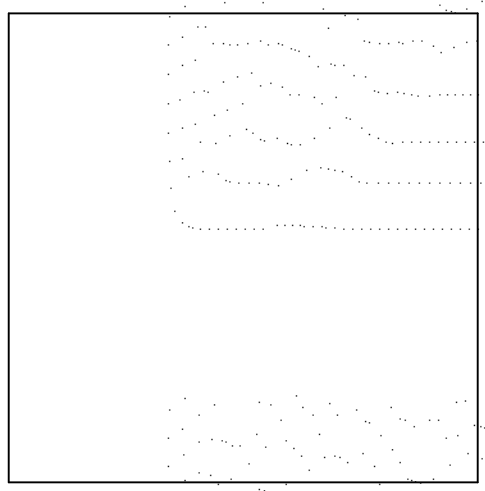


EXISTING - WINTER SOLSTICE 12PM ③  
1" = 100'-0"

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310.358.0963

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514 NORTH PROSPECT AVE.  
REDONDO BEACH, CA 90277

PMA PROJECT NO.  
19010

DRAWING TITLE  
EXISTING SHADE/SHADOW WINTER SOLSTICE

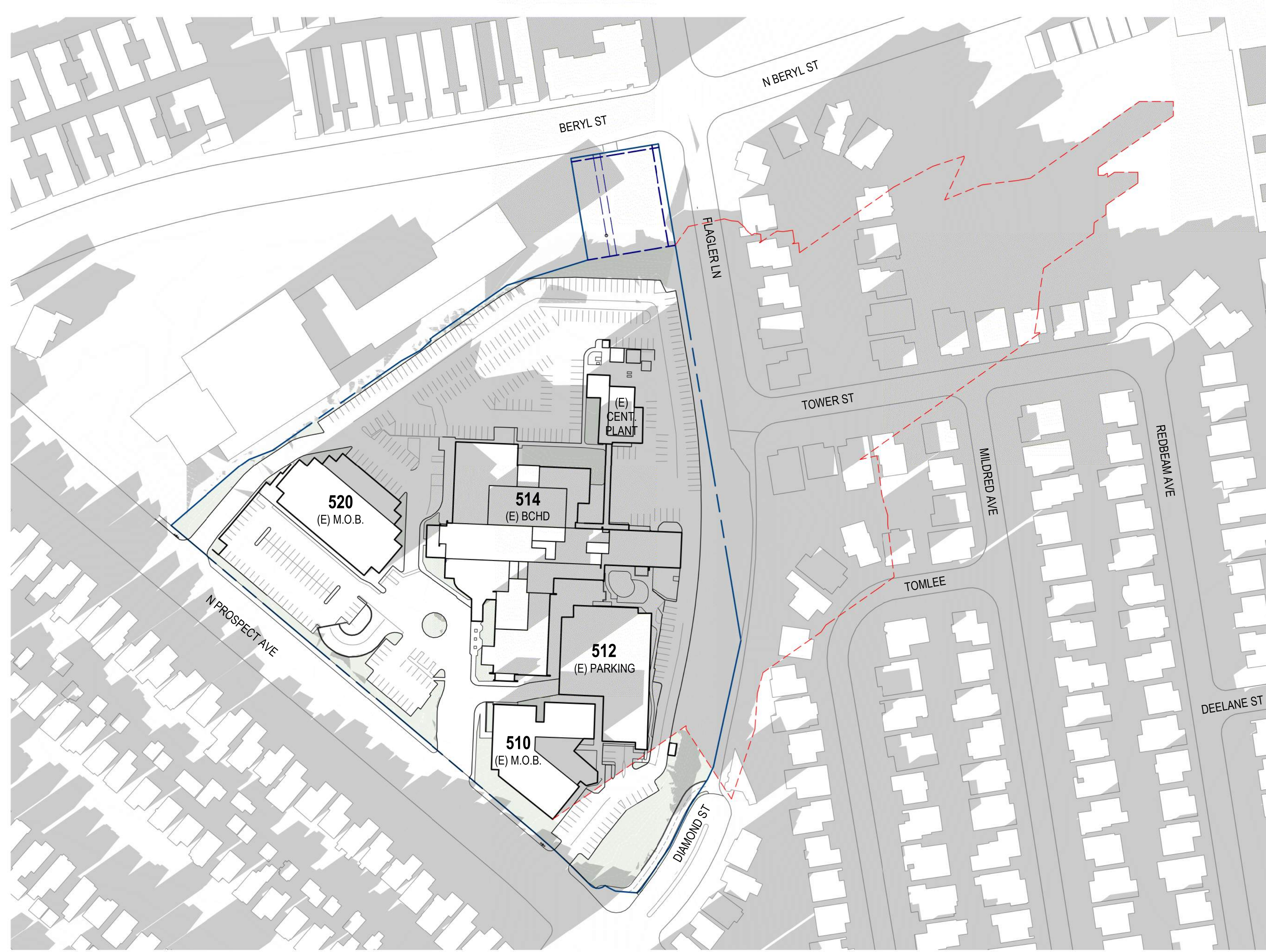
SCALE  
1" = 100'-0"

DATE  
02/01/2021

DRAWN CHECKED  
EC PM

SHEET NO.

(E) A402

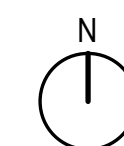
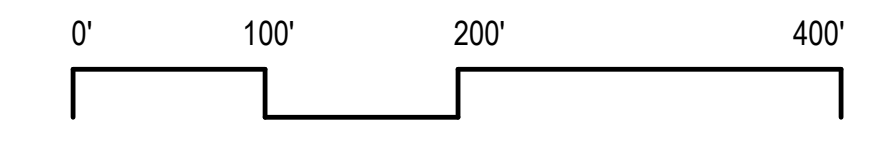


EXISTING - WINTER SOLSTICE 4PM

1" = 100'-0"

1

--- BCHD SITE SHADOW OUTLINE



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310.358.0963

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BEACH CITIES HEALTH DISTRICT HEALTHY LIVING CAMPUS		
514 NORTH PROSPECT AVE. REDONDO BEACH, CA 90277		
PMA PROJECT NO. 19010		
DRAWING TITLE: EXISTING SHADE/SHADOW WINTER SOLSTICE		
SCALE: 1" = 100'-0"		
DATE: 02/01/2021		
DRAWN: EC CHECKED: PM		
SHEET NO. (E) A403		

BEACH CITIES HEALTH DISTRICT HEALTHY LIVING CAMPUS

514 NORTH PROSPECT AVE. REDONDO BEACH, CA 90277

PMA PROJECT NO. 19010

DRAWING TITLE: EXISTING SHADE/SHADOW WINTER SOLSTICE

SCALE: 1" = 100'-0"

DATE: 02/01/2021

DRAWN: EC CHECKED: PM

SHEET NO. (E) A403



EXISTING - FALL EQUINOX 10AM  
1" = 100'-0" ②



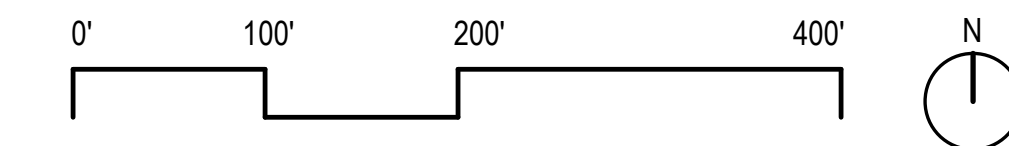
EXISTING - FALL EQUINOX 8AM  
1" = 100'-0" ①



EXISTING - FALL EQUINOX 2PM  
1" = 100'-0" ④



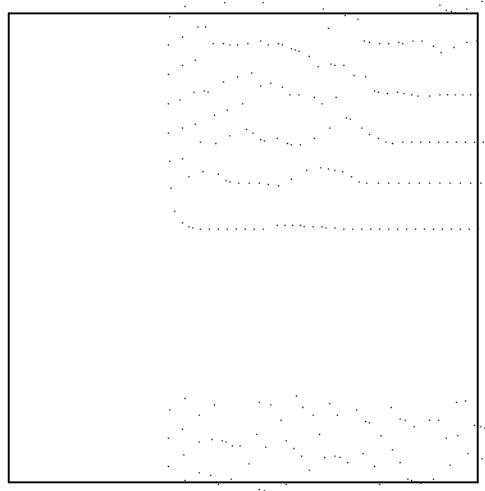
EXISTING - FALL EQUINOX 12PM  
1" = 100'-0" ③



**PAUL MURDOCH ARCHITECTS**

6310 SAN VICENTE BLVD SUITE 400  
LOS ANGELES, CALIFORNIA 90048  
310.556.0963

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NO.	DATE	REVISION

**BEACH CITIES HEALTH DISTRICT HEALTHY LIVING CAMPUS**

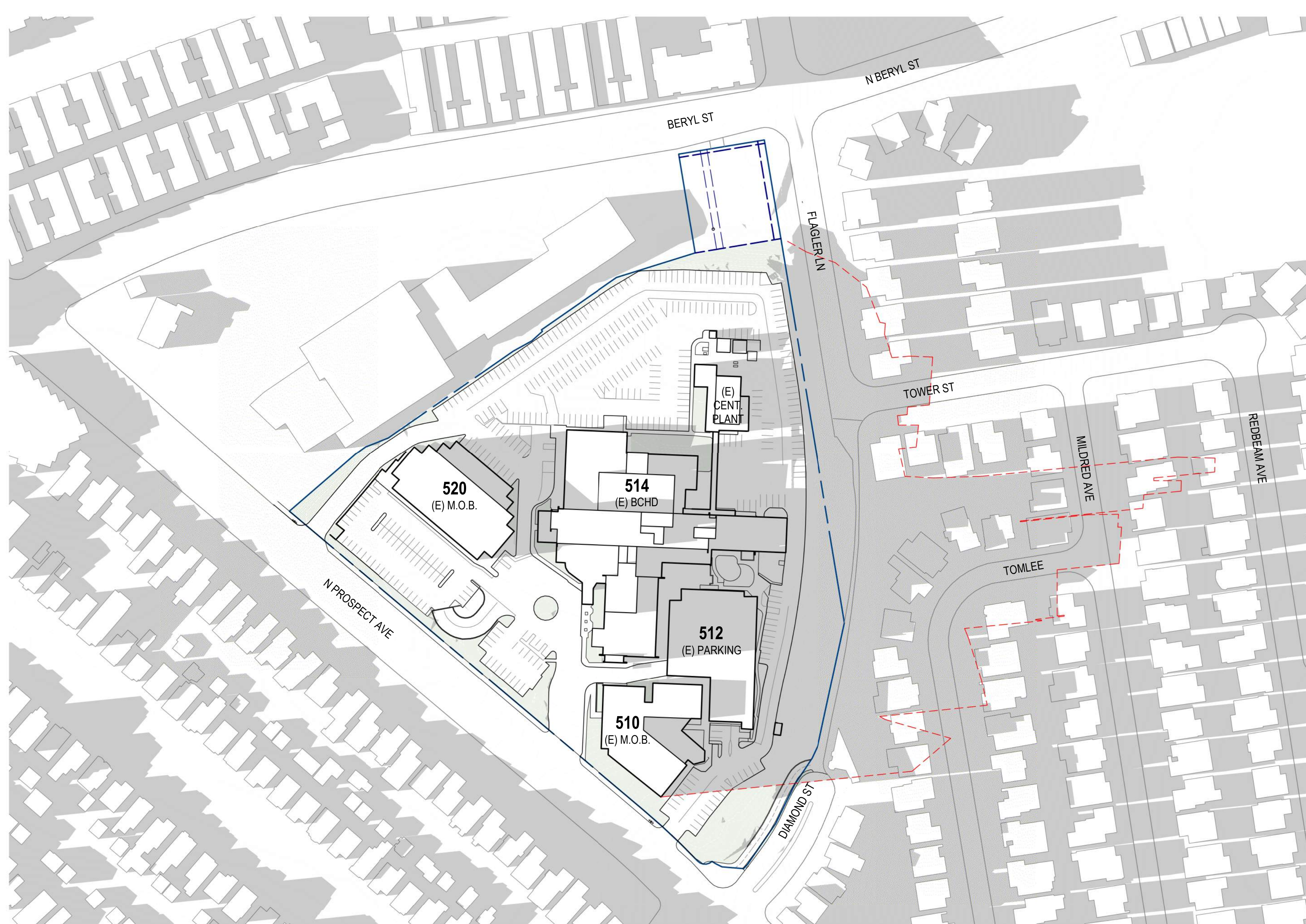
514 NORTH PROSPECT AVE.  
REDONDO BEACH, CA 90277

PMA PROJECT NO.  
19010

DRAWING TITLE  
**EXISTING SHADE/SHADOW FALL EQUINOX**

SCALE  
1" = 100'-0"  
DATE  
02/01/2021  
DRAWN  
EC  
CHECKED  
PM  
SHEET NO.

**(E) A404**

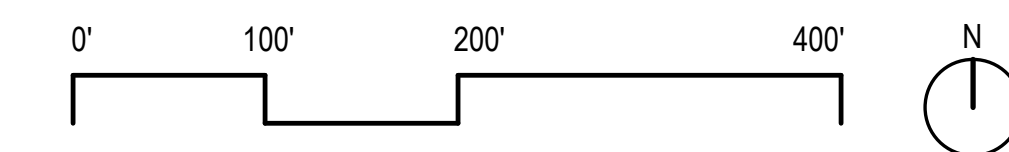


EXISTING - FALL EQUINOX 5PM ①  
1" = 100'-0"

--- BCHD SITE SHADOW OUTLINE



EXISTING - FALL EQUINOX 4PM ②  
1" = 100'-0"



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REDONDO BEACH, CA 90277

PMA PROJECT NO.  
19010

DRAWING TITLE  
EXISTING SHADE/SHADOW FALL EQUINOX

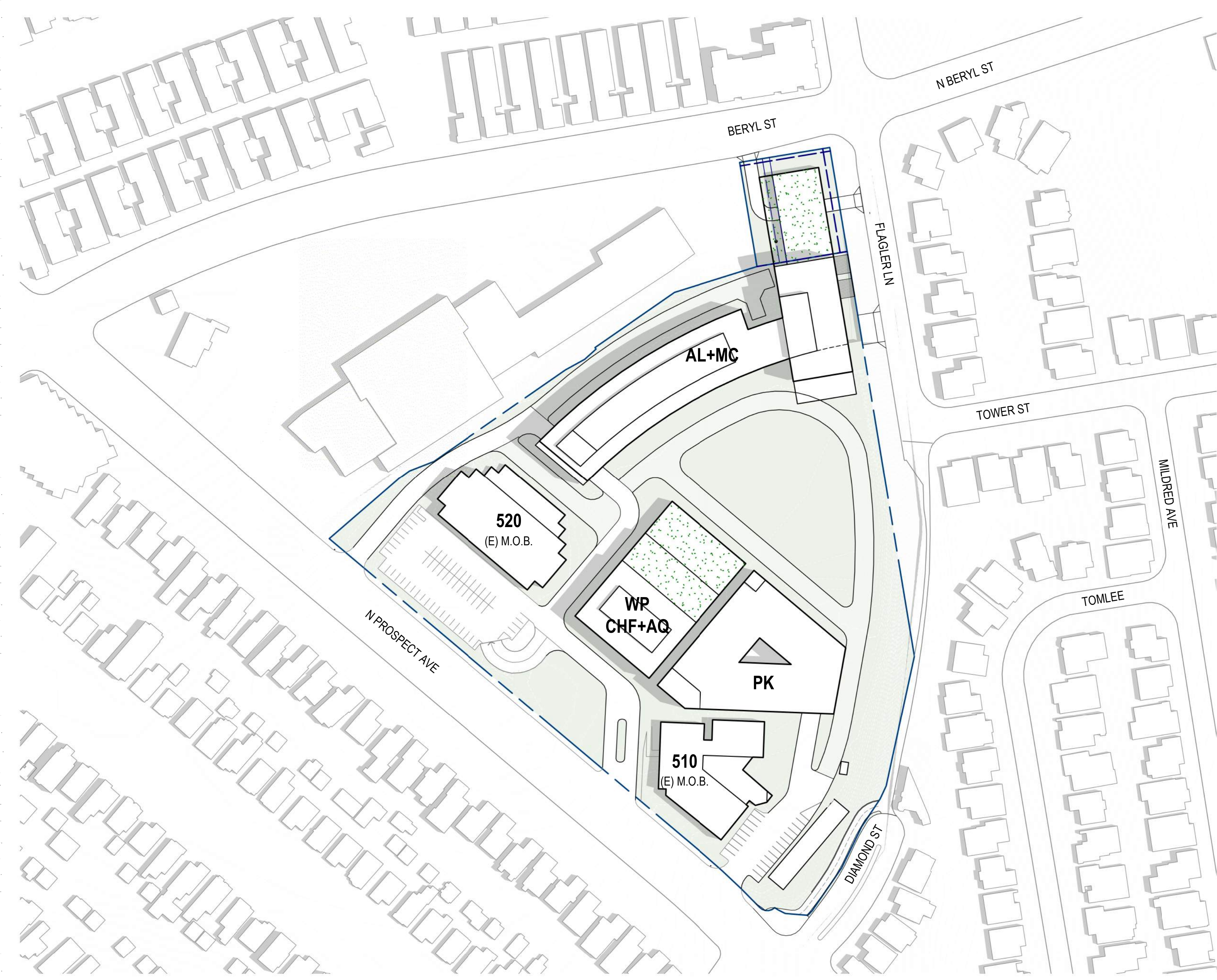
SCALE  
1" = 100'-0"

DATE  
02/01/2021

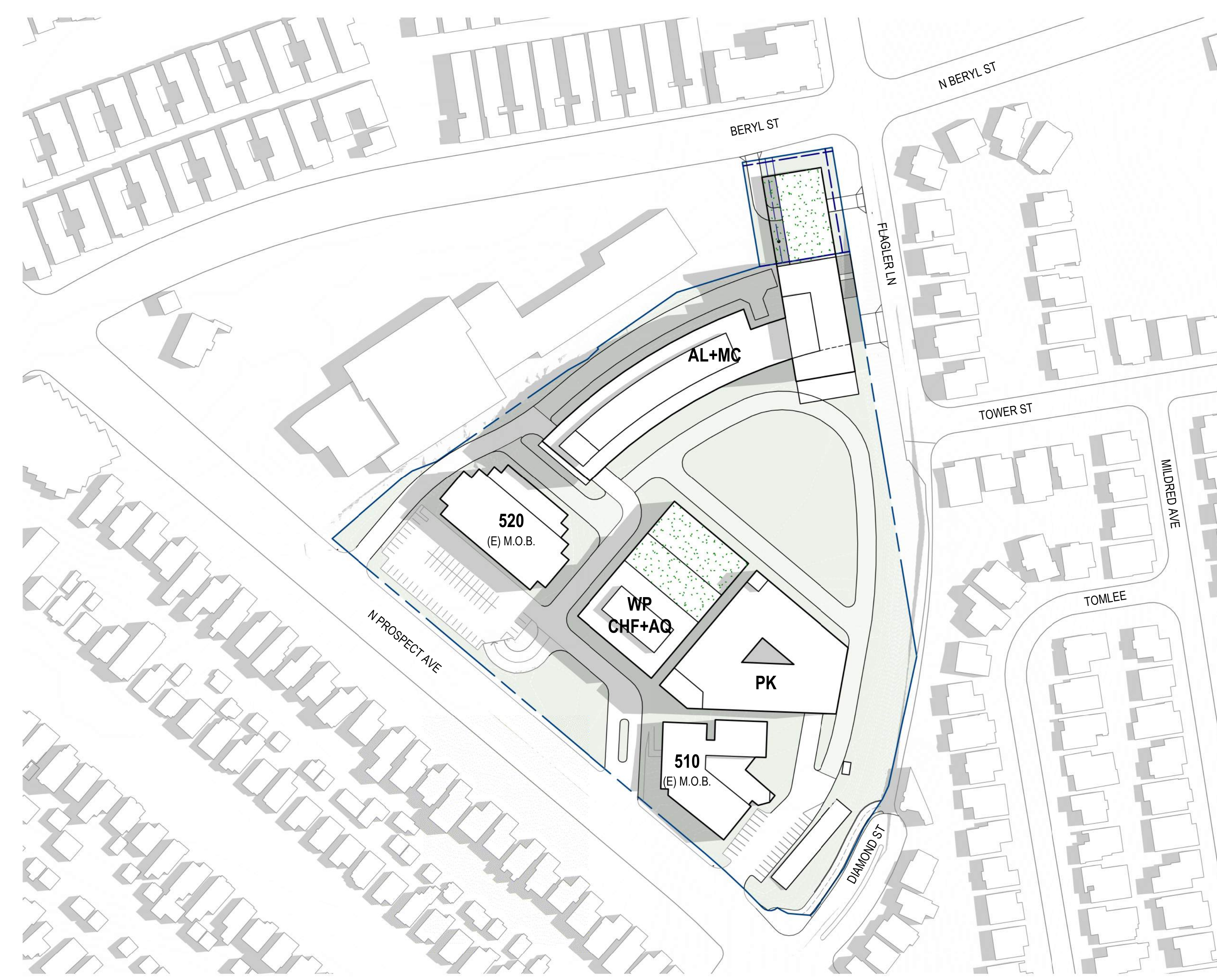
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EC PM

SHEET NO.

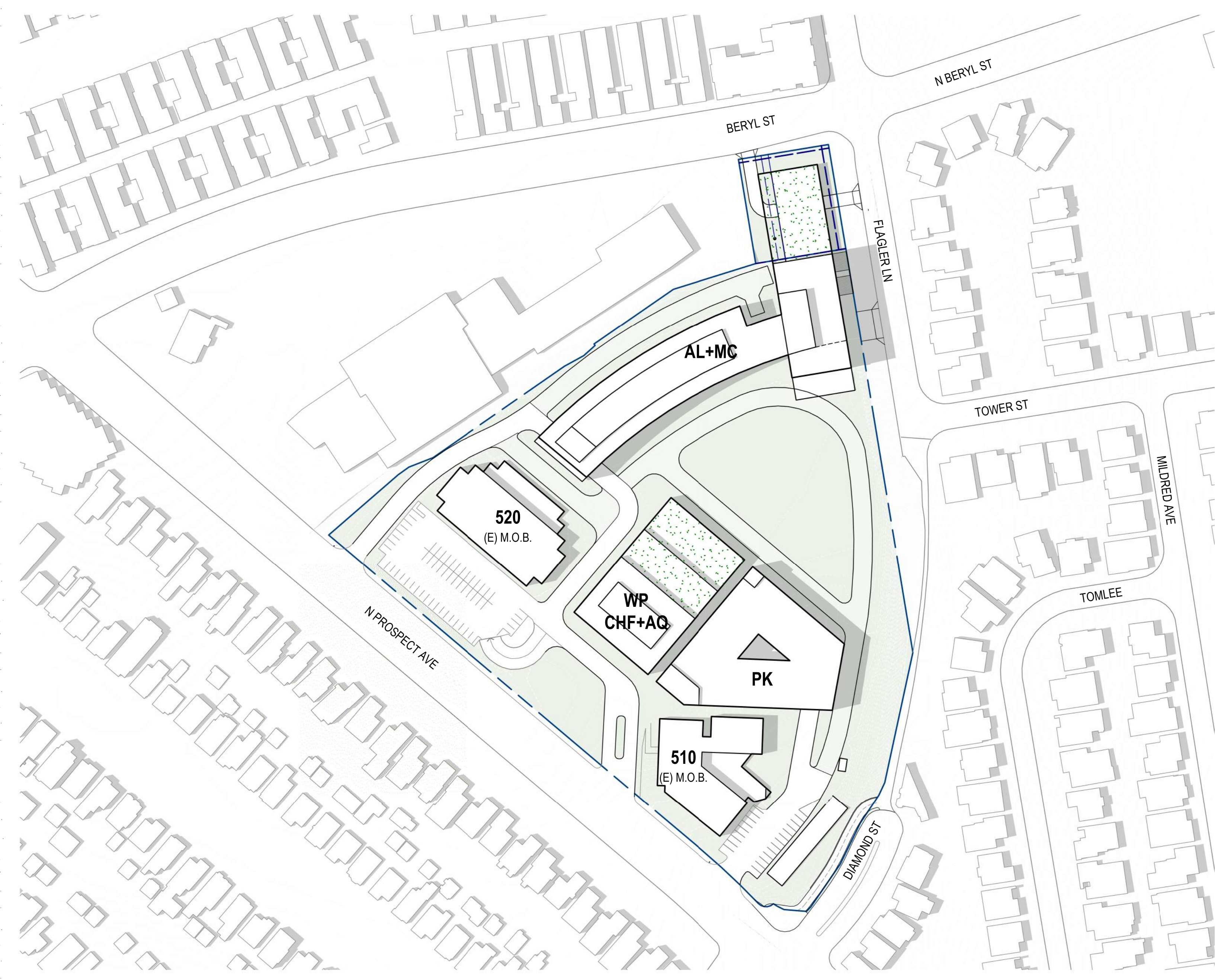
(E) A405



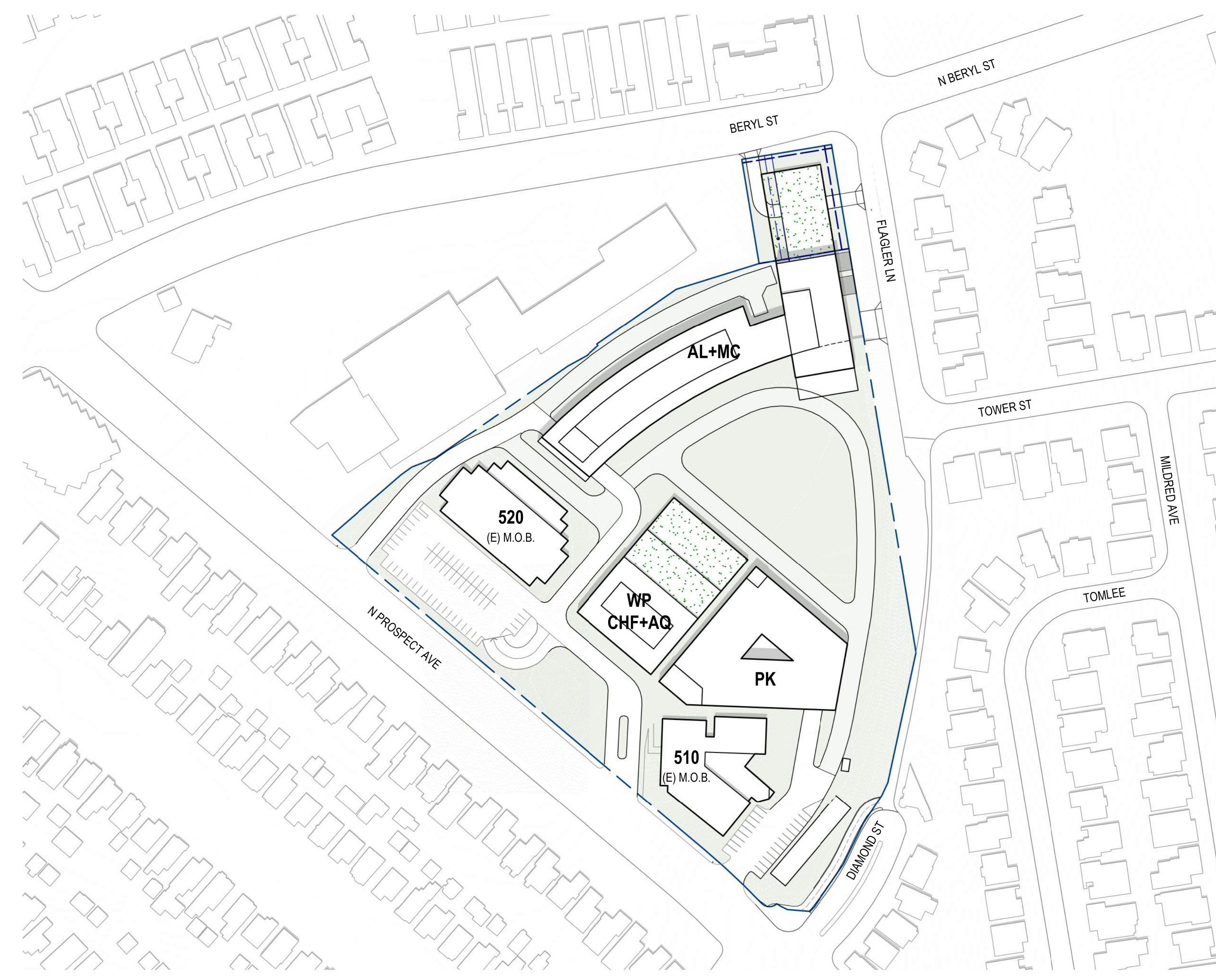
PH2 - SUMMER SOLSTICE 10AM  
1" = 100'-0" 2



PH2 - SUMMER SOLSTICE 8AM  
1" = 100'-0" 1



PH2 - SUMMER SOLSTICE 2PM  
1" = 100'-0" 4

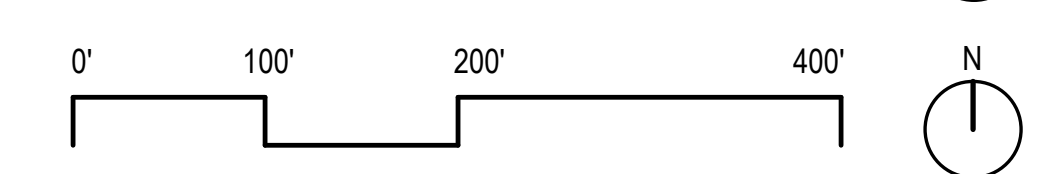
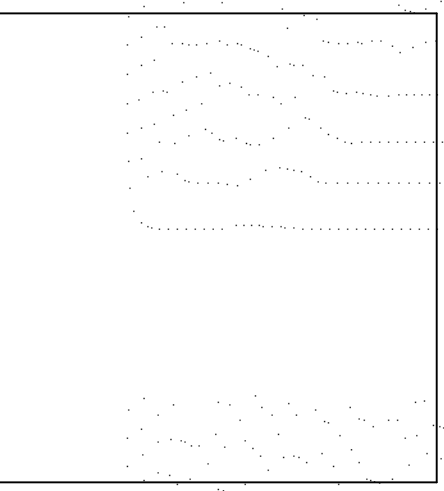


PH2 - SUMMER SOLSTICE 12PM  
1" = 100'-0" 3

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6310 SAN VICENTE BLVD SUITE 400  
LOS ANGELES, CALIFORNIA 90048  
310.358.0983

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NO.	DATE	REVISION
BEACH CITIES HEALTH DISTRICT HEALTHY LIVING CAMPUS		
514 NORTH PROSPECT AVE. REDONDO BEACH, CA 90277		
PMA PROJECT NO. 19010		
DRAWING TITLE: PROGRAM TEST FIT DIAGRAMS PHASE 2 OPTION-A SHADE/SHADOW SUMMER SOLSTICE		
SCALE: 1" = 100'-0"		
DATE: 02/01/2021		
DRAWN: EC		CHECKED: PM
SHEET NO. PH2-A A400		

BEACH CITIES HEALTH DISTRICT HEALTHY LIVING CAMPUS

514 NORTH PROSPECT AVE. REDONDO BEACH, CA 90277

PMA PROJECT NO. 19010

DRAWING TITLE:  
PROGRAM TEST FIT DIAGRAMS  
PHASE 2  
OPTION-A  
SHADE/SHADOW  
SUMMER  
SOLSTICE

SCALE: 1" = 100'-0"

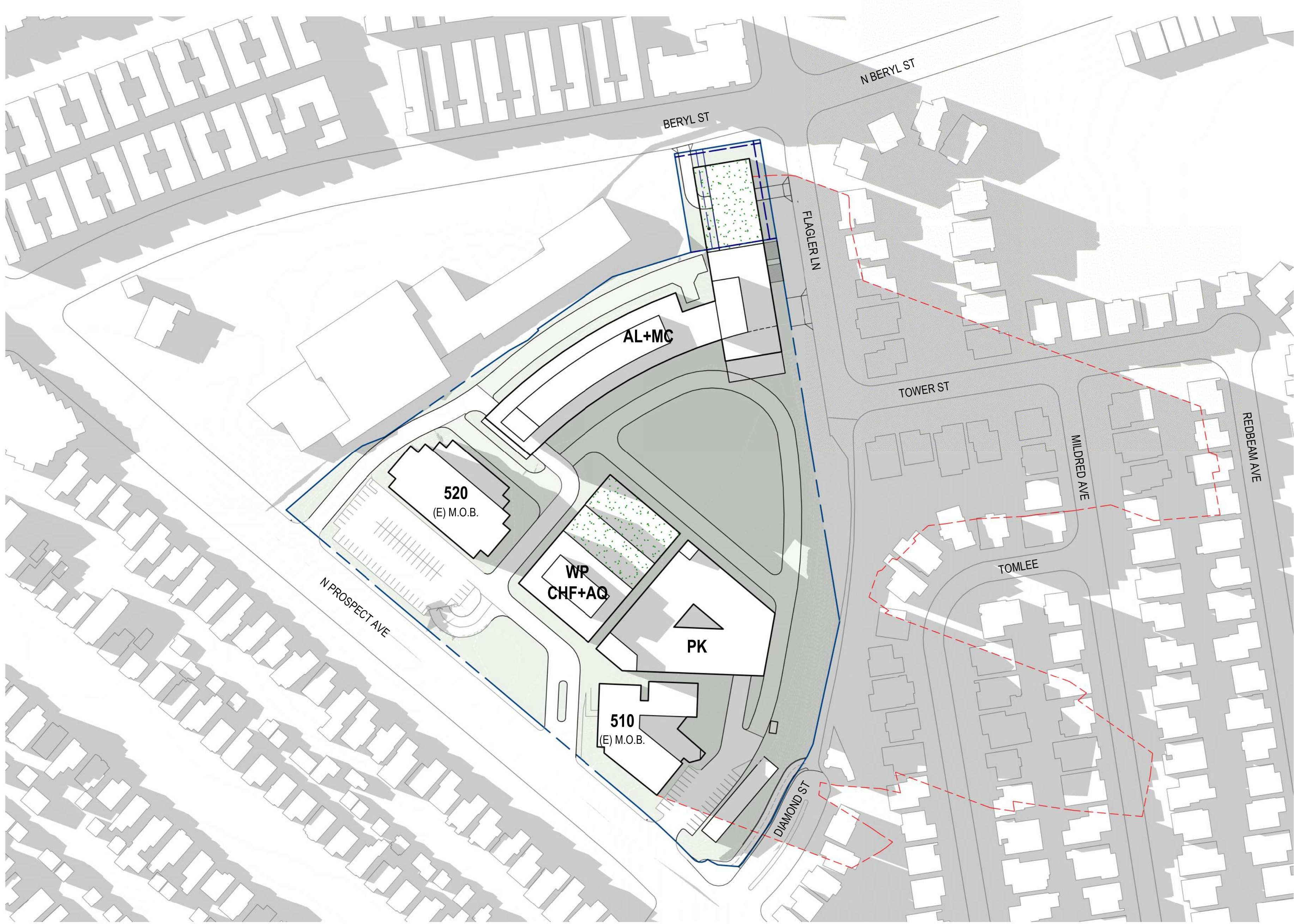
DATE: 02/01/2021

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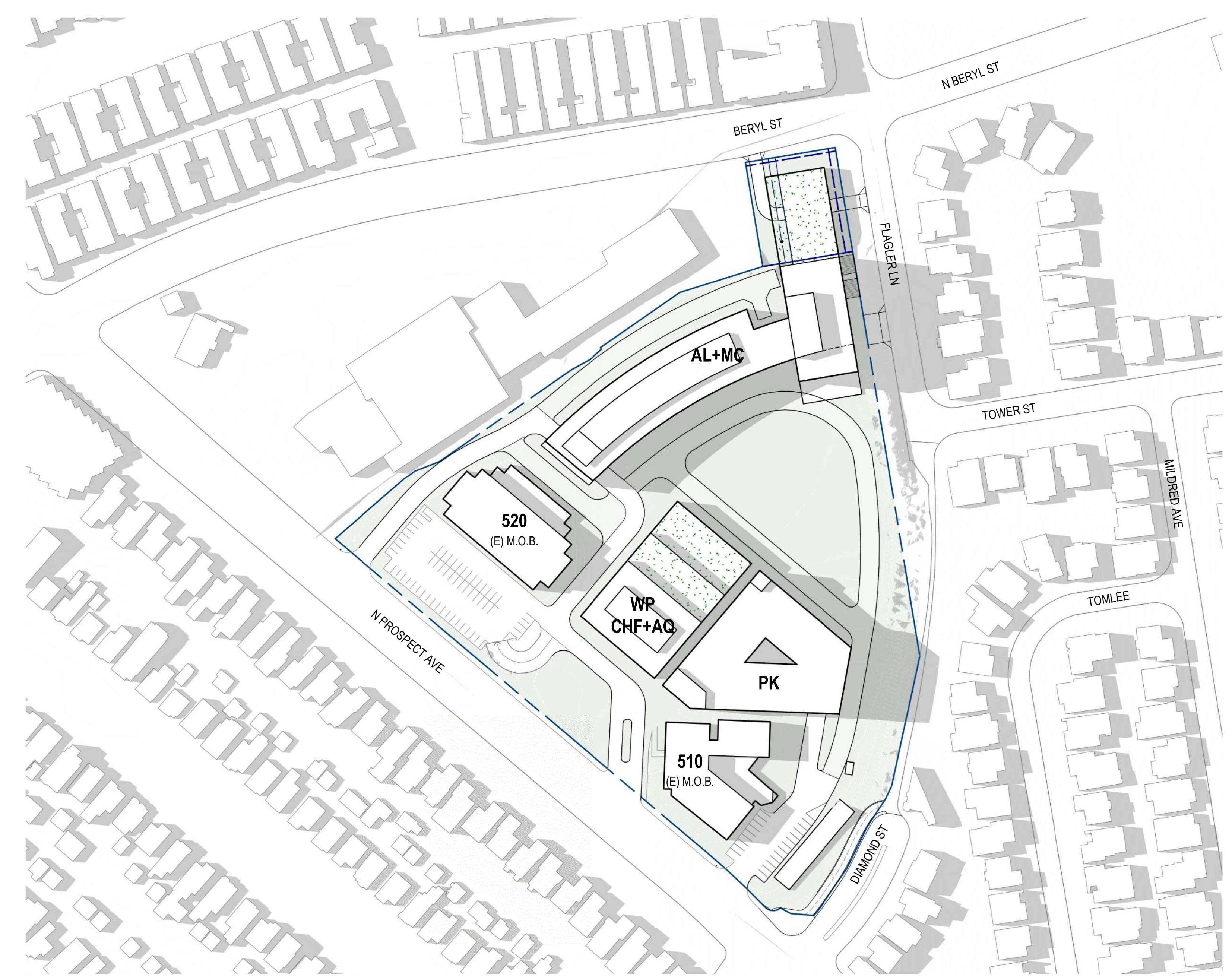
PH2-A  
A400



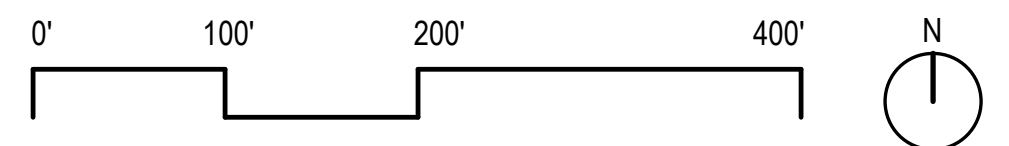


PH2 - SUMMER SOLSTICE 6PM  
1" = 100'-0" 2

--- BCHD SITE SHADOW OUTLINE



PH2 - SUMMER SOLSTICE 4PM  
1" = 100'-0" 1



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310.558.0963

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19010

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PROGRAM TEST  
FIT DIAGRAMS  
PHASE 2  
OPTION-A  
SHADE/SHADOW  
SUMMER  
SOLSTICE

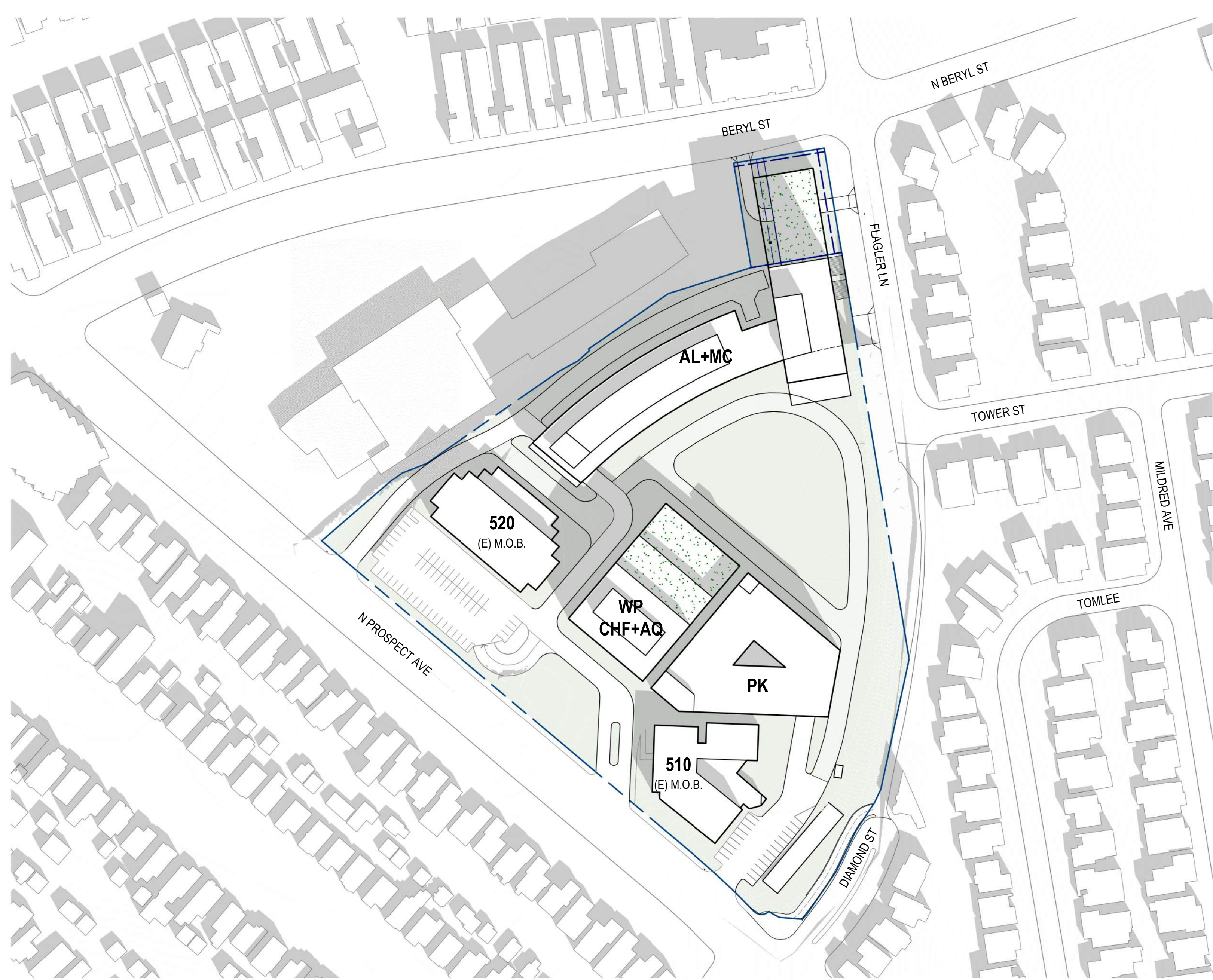
SCALE  
1" = 100'-0"

DATE  
02/01/2021

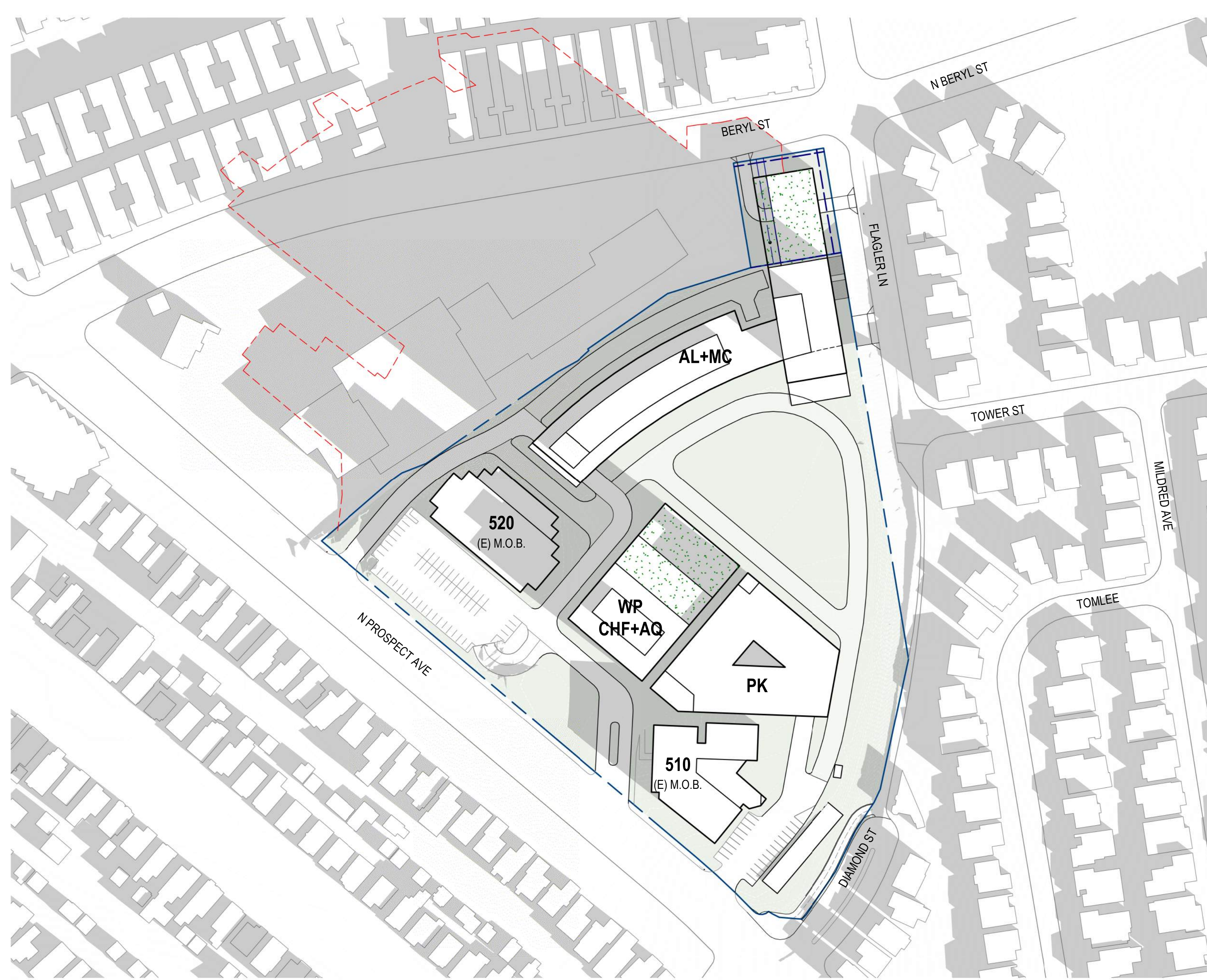
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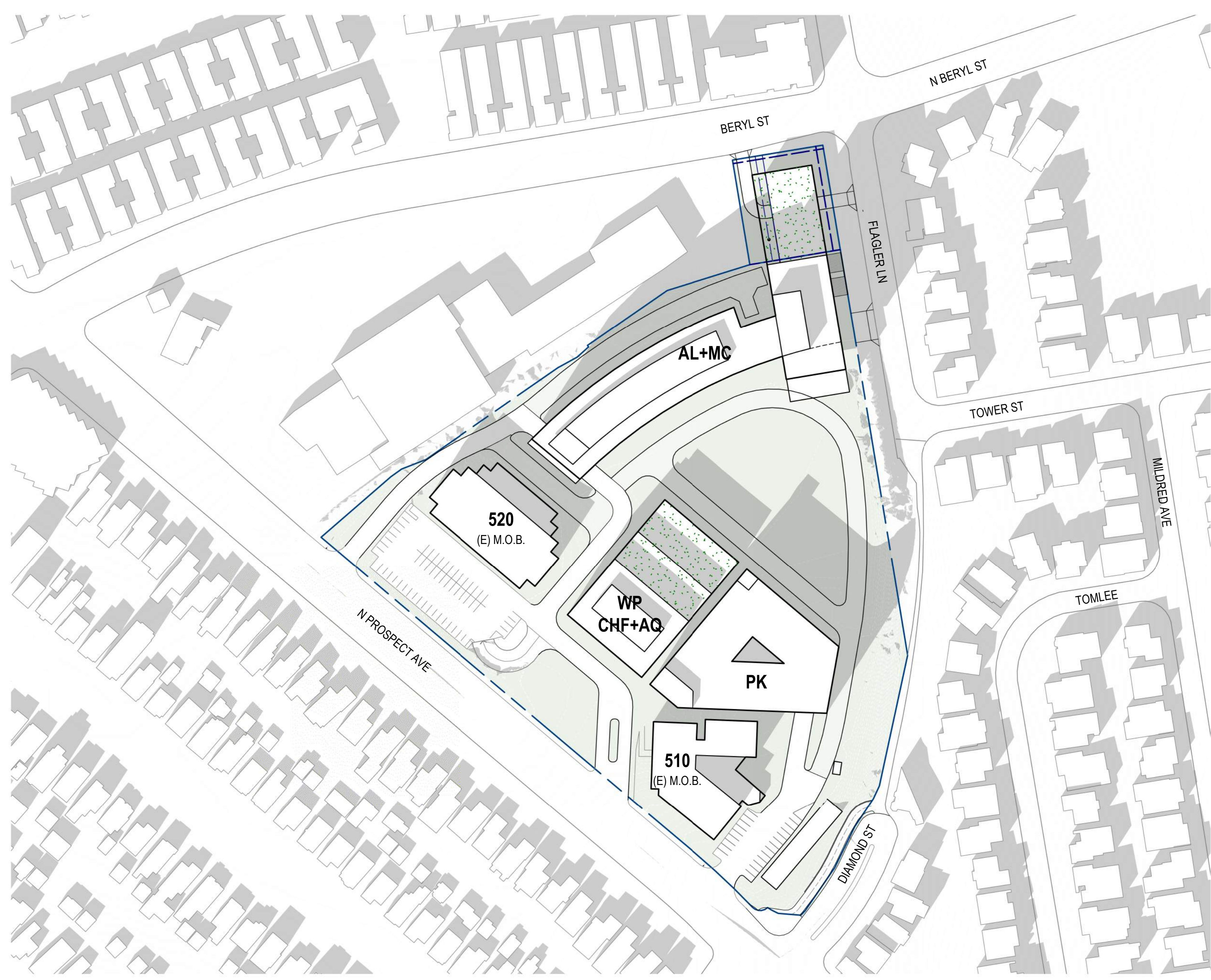
PH2-A  
A401



PH2 - WINTER SOLSTICE 10AM  
1" = 100'-0" 2



PH2 - WINTER SOLSTICE 8AM  
1" = 100'-0" 1

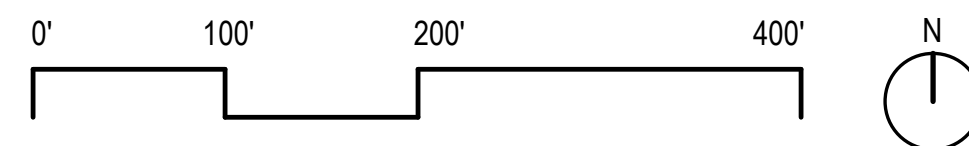


PH2 - WINTER SOLSTICE 2PM  
1" = 100'-0" 4



PH2 - WINTER SOLSTICE 12PM  
1" = 100'-0" 3

--- BCHD SITE SHADOW OUTLINE



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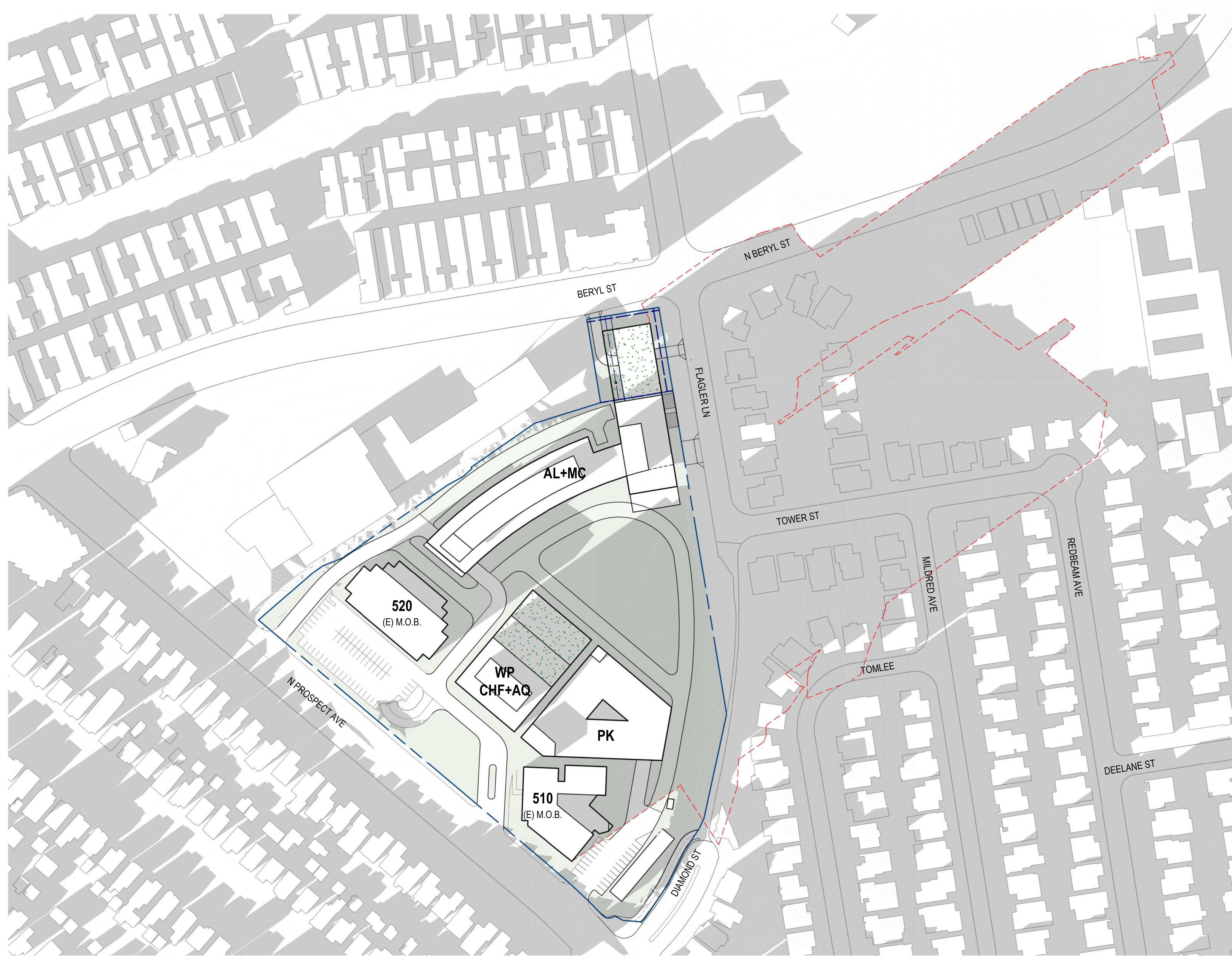
514 NORTH PROSPECT AVE.  
REDONDO BEACH, CA 90277

PMA PROJECT NO.  
19010

DRAWING TITLE  
**PROGRAM TEST FIT DIAGRAMS PHASE 2 OPTION-A SHADE/SHADOW WINTER SOLSTICE**

SCALE  
1" = 100'-0"  
DATE  
02/01/2021  
DRAWN CHECKED  
EC PM  
SHEET NO.

**PH2-A A402**

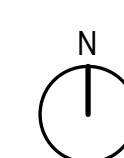
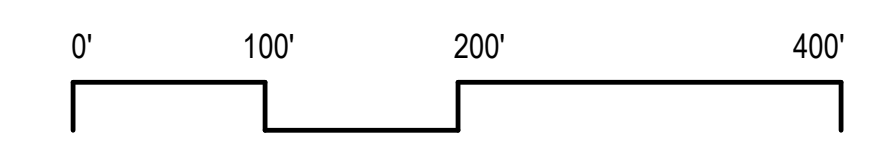


PH2 - WINTER SOLSTICE 4PM

1" = 100'-0"

1

--- BCHD SITE SHADOW OUTLINE

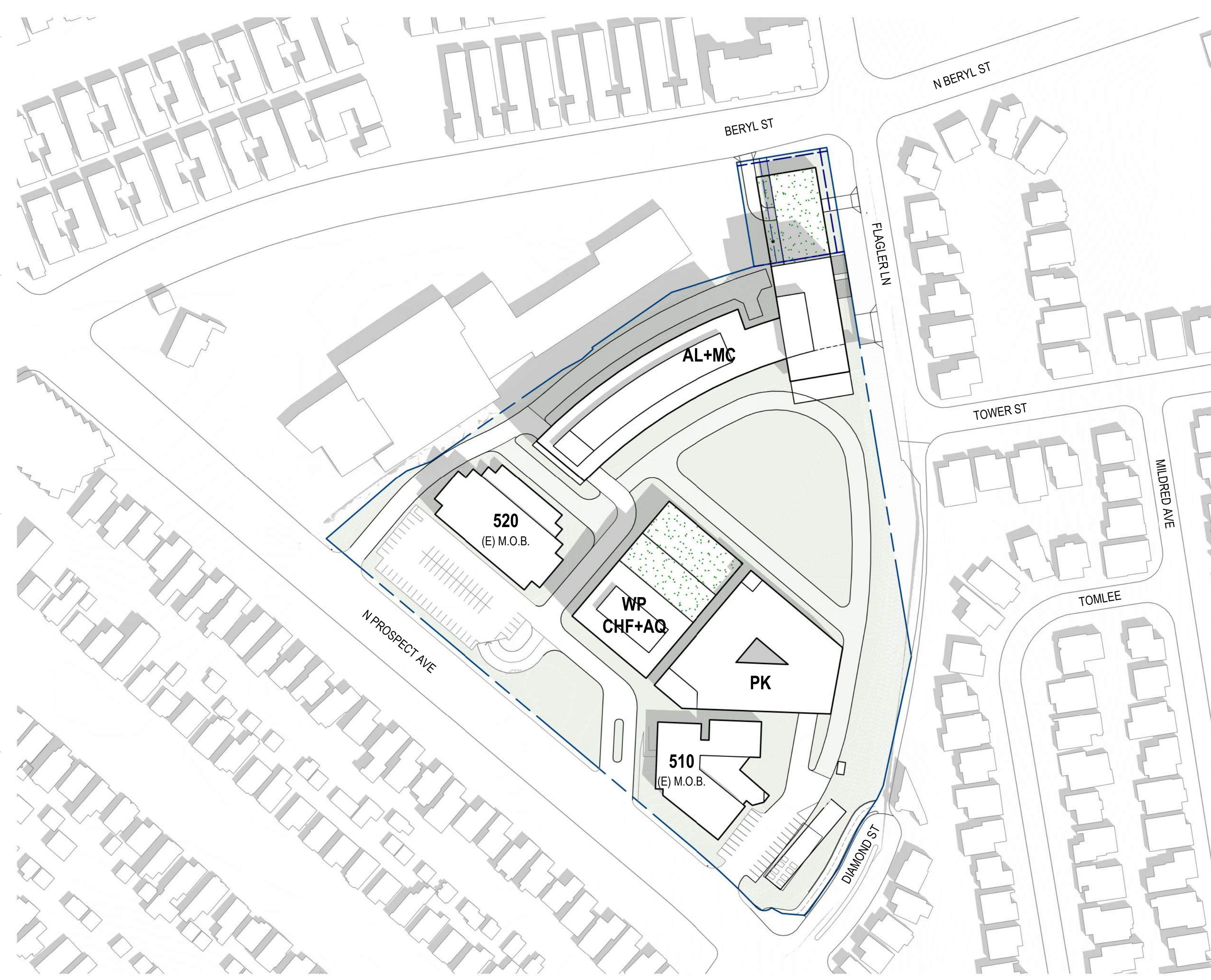


**PAUL MURDOCH ARCHITECTS**

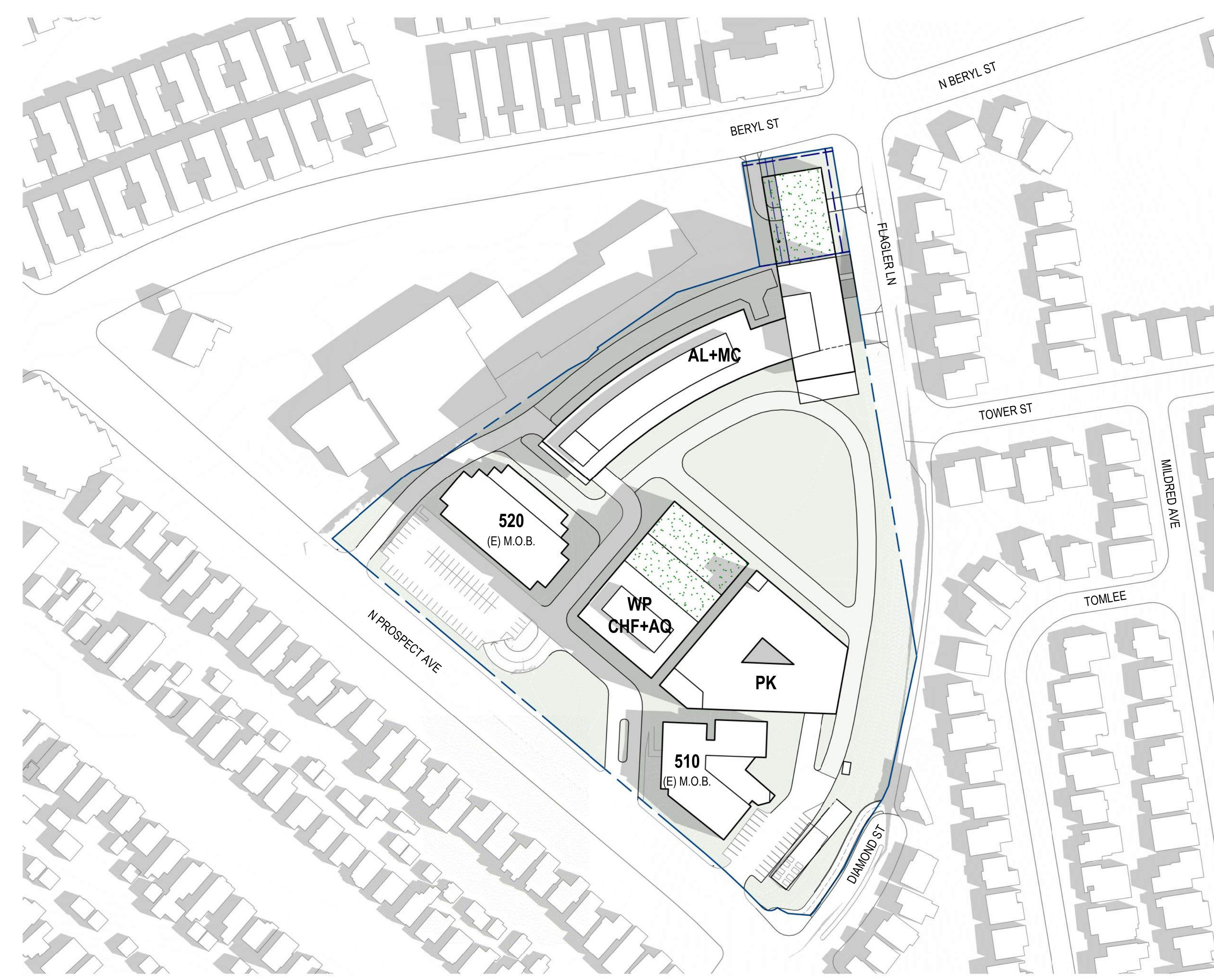
6310 SAN VICENTE BLVD SUITE 400  
LOS ANGELES, CALIFORNIA 90048  
310.558.0983

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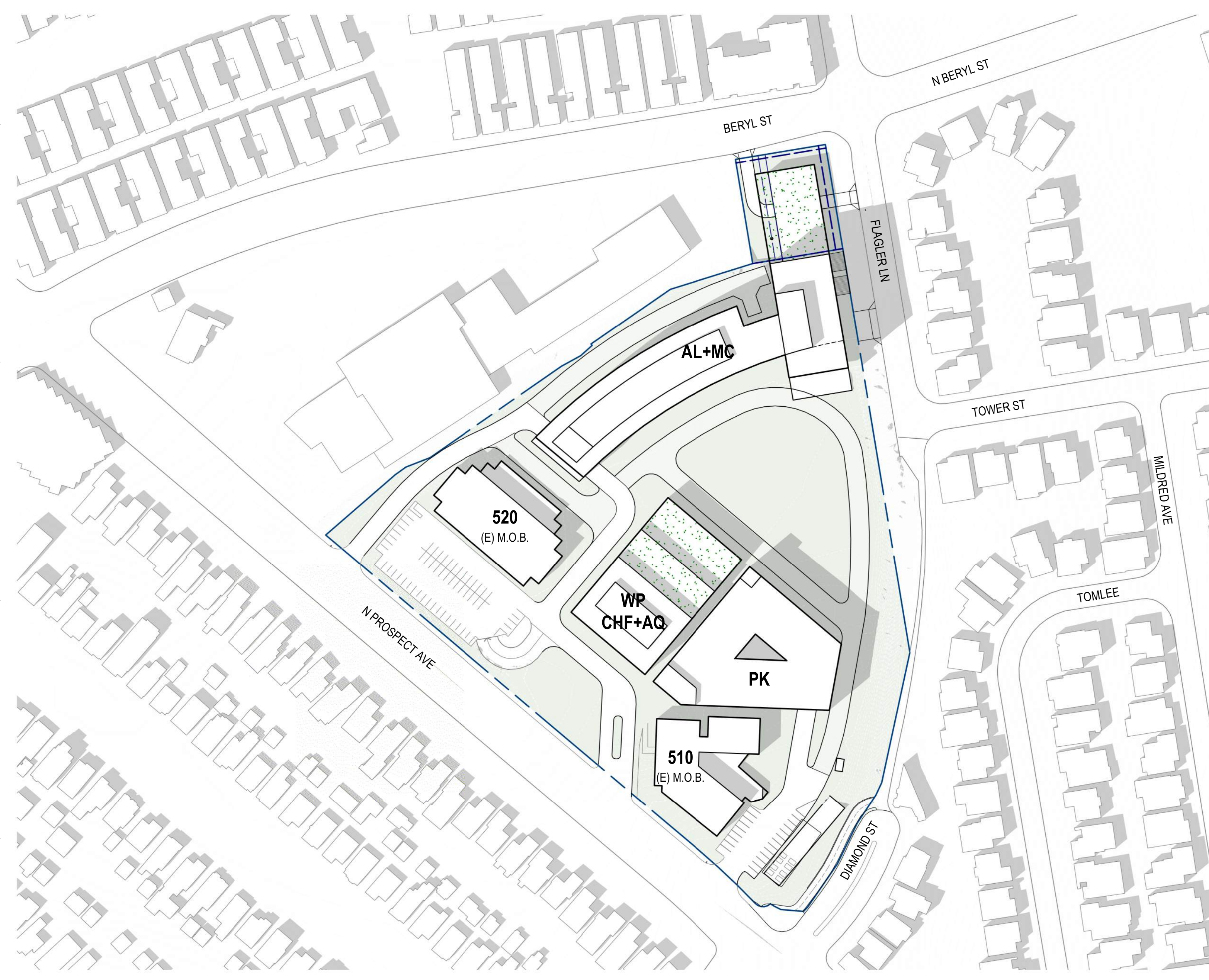
NO.	DATE	REVISION
<p><b>BEACH CITIES HEALTH DISTRICT HEALTHY LIVING CAMPUS</b></p> <p>514 NORTH PROSPECT AVE. REDONDO BEACH, CA 90277</p>		
<p>PMA PROJECT NO. 19010</p>		
<p>DRAWING TITLE <b>PROGRAM TEST FIT DIAGRAMS PHASE 2 OPTION-A SHADE/SHADOW WINTER SOLSTICE</b></p>		
<p>SCALE 1" = 100'-0"</p>		
<p>DATE 02/01/2021</p>		
<p>DRAWN EC</p>		<p>CHECKED PM</p>
<p>SHEET NO. <b>PH2-A A403</b></p>		



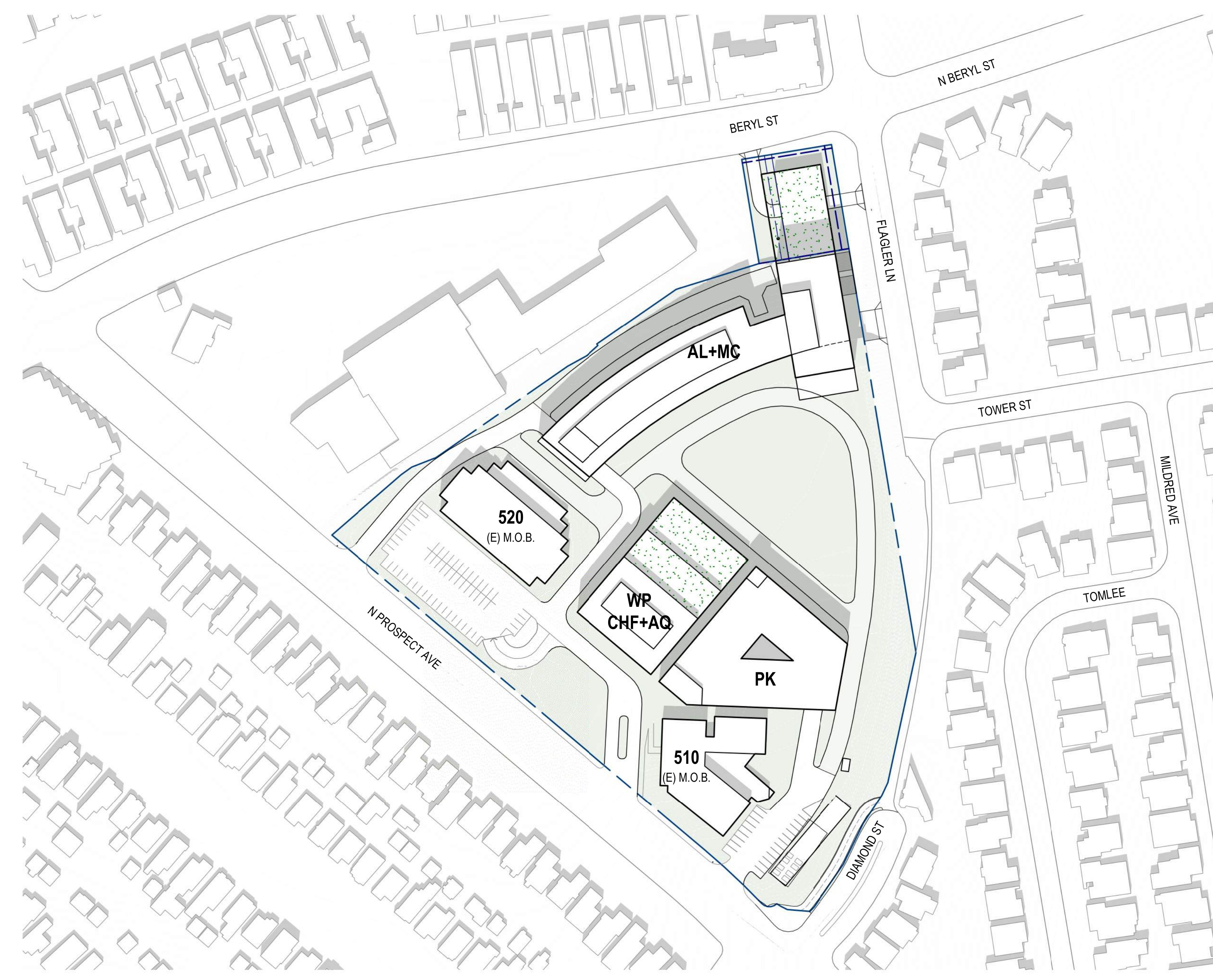
PH2 - FALL EQUINOX 10AM  
1" = 100'-0" ②



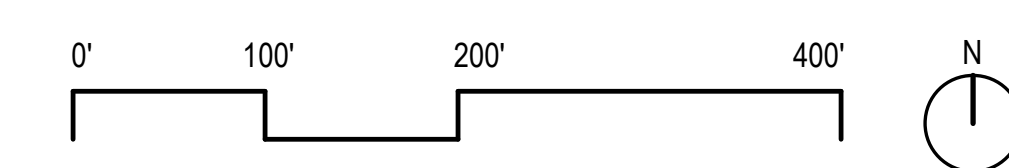
PH2 - FALL EQUINOX 8AM  
1" = 100'-0" ①



PH2 - FALL EQUINOX 2PM  
1" = 100'-0" ④



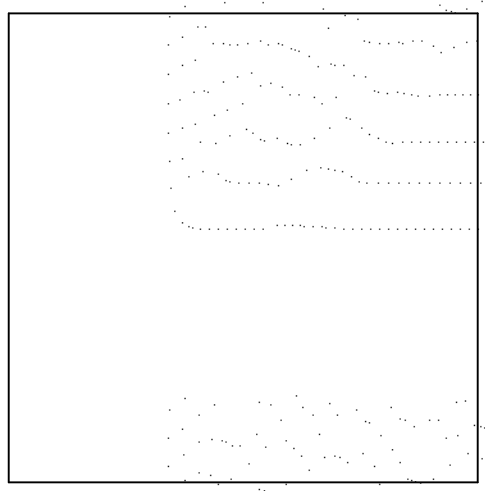
PH2 - FALL EQUINOX 12PM  
1" = 100'-0" ③



**PAUL MURDOCH ARCHITECTS**

6310 SAN VICENTE BLVD SUITE 400  
LOS ANGELES, CALIFORNIA 90048  
310.356.0963

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**BEACH CITIES HEALTH DISTRICT HEALTHY LIVING CAMPUS**

514 NORTH PROSPECT AVE.  
REDONDO BEACH, CA 90277

PMA PROJECT NO.  
19010

**PROGRAM TEST  
FIT DIAGRAM  
PHASE 2  
OPTION-A  
SHADE/SHADOW  
FALL EQUINOX**

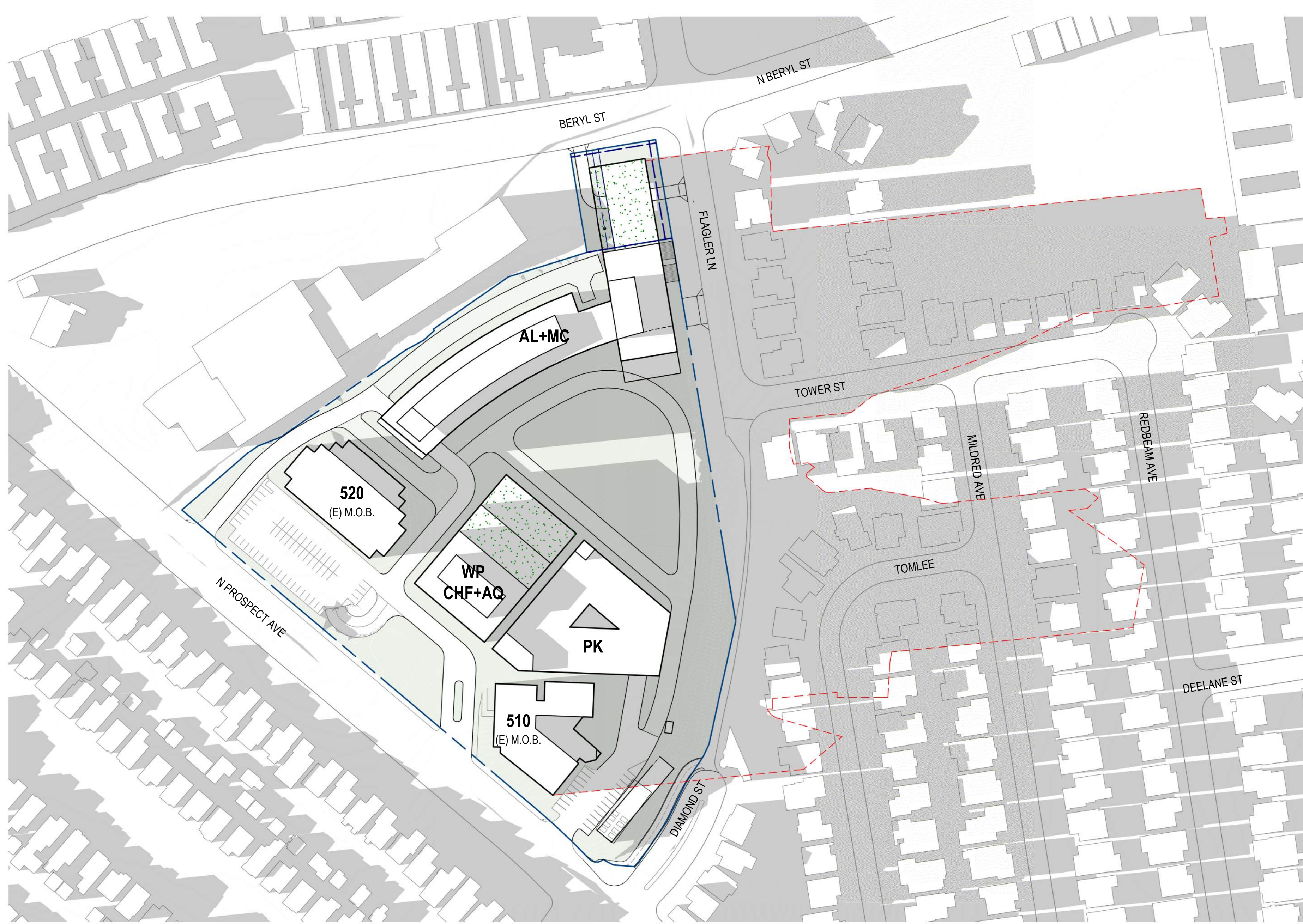
SCALE  
1" = 100'-0"

DATE  
02/01/2021

DRAWN	CHECKED
EC	PM

SHEET NO.

**PH2-A  
A404**

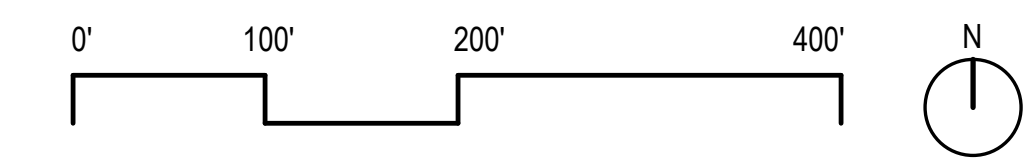


PH2 - FALL EQUINOX 5PM  
1" = 100'-0" 2

--- BCHD SITE SHADOW OUTLINE



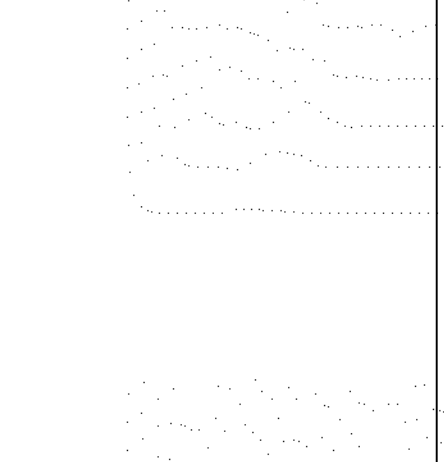
PH2 - FALL EQUINOX 4PM  
1" = 100'-0" 1



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LOS ANGELES, CALIFORNIA 90048  
310.558.0963

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BEACH CITIES HEALTH DISTRICT HEALTHY LIVING CAMPUS

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REDONDO BEACH, CA 90277

PMA PROJECT NO.  
19010

DRAWING TITLE  
PROGRAM TEST  
FIT DIAGRAMS  
PHASE 2  
OPTION-A  
SHADE/SHADOW  
FALL EQUINOX

SCALE  
1" = 100'-0"

DATE  
02/01/2021

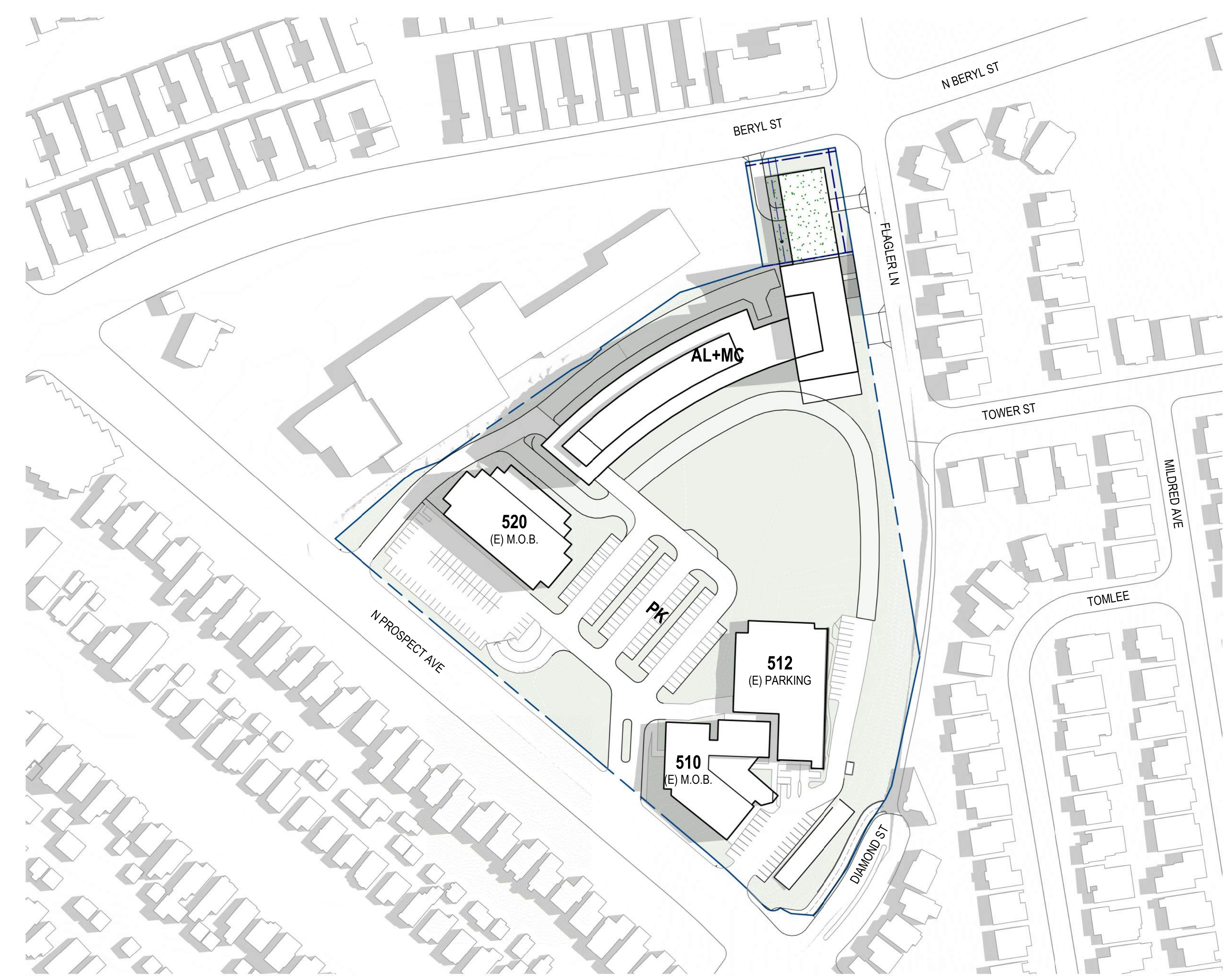
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EC PM

SHEET NO.

PH2-A  
A405



PH1 - SUMMER SOLSTICE 10AM  
1" = 100'-0" ②



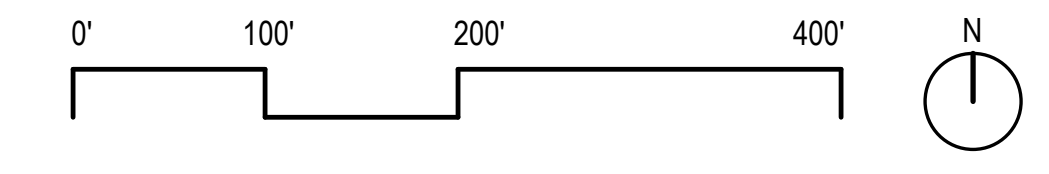
PH1 - SUMMER SOLSTICE 8AM  
1" = 100'-0" ①



PH1 - SUMMER SOLSTICE 2PM  
1" = 100'-0" ④



PH1 - SUMMER SOLSTICE 12PM  
1" = 100'-0" ③

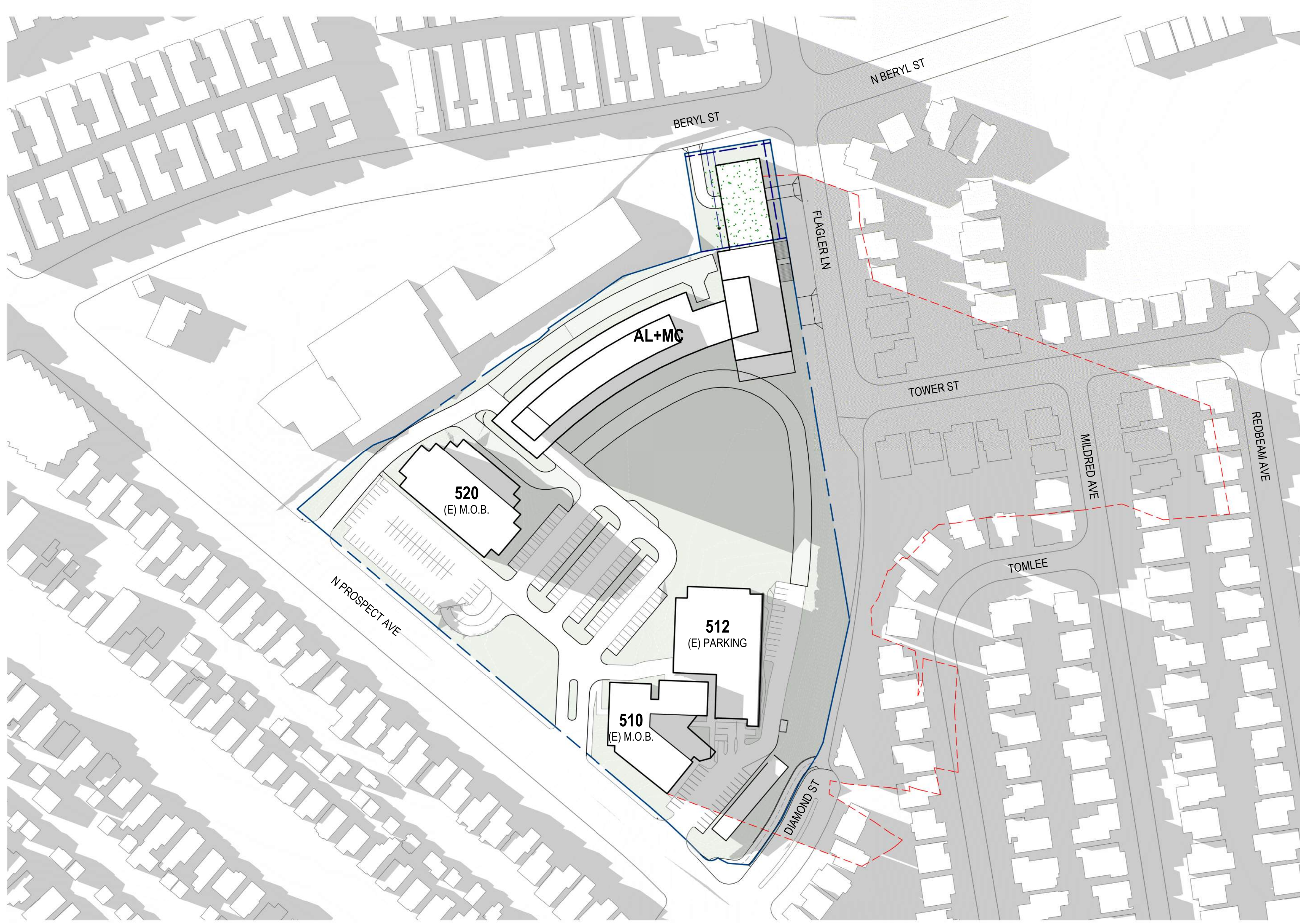


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LOS ANGELES, CALIFORNIA 90048  
310.358.0983

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NO.	DATE	REVISION
BEACH CITIES HEALTH DISTRICT HEALTHY LIVING CAMPUS		
514 NORTH PROSPECT AVE. REDONDO BEACH, CA 90277		
PMA PROJECT NO. 19010		
DRAWING TITLE: PROGRAM TEST FIT DIAGRAMS PHASE 1 OPTION-A SHADE/SHADOW SUMMER SOLSTICE		
SCALE: 1" = 100'-0"		
DATE: 02/01/2021		
DRAWN: EC		CHECKED: PM
SHEET NO. PH1-A A400		

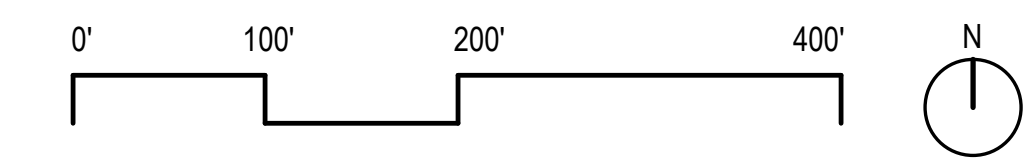


PH1 - SUMMER SOLSTICE 6PM  
1" = 100'-0" 2

--- BCHD SITE SHADOW OUTLINE



PH1 - SUMMER SOLSTICE 4PM  
1" = 100'-0" 1



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BEACH CITIES HEALTH DISTRICT HEALTHY LIVING CAMPUS

514 NORTH PROSPECT AVE.  
REDONDO BEACH, CA 90277

PMA PROJECT NO.  
19010

DRAWING TITLE  
PROGRAM TEST  
FIT DIAGRAMS  
PHASE 1  
OPTION-A  
SHADE/SHADOW  
SUMMER  
SOLSTICE

SCALE  
1" = 100'-0"

DATE  
02/01/2021

DRAWN CHECKED  
EC PM

SHEET NO.

PH1-A  
A401



PH1 - WINTER SOLSTICE 10AM  
1" = 100'-0" 2



PH1 - WINTER SOLSTICE 8AM  
1" = 100'-0" 1



PH1 - WINTER SOLSTICE 2PM  
1" = 100'-0" 4



PH1 - WINTER SOLSTICE 12PM  
1" = 100'-0" 3

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310.556.0963

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514 NORTH PROSPECT AVE.  
REDONDO BEACH, CA 90277

PMA PROJECT NO.  
19010

DRAWING TITLE  
**PROGRAM TEST  
FIT DIAGRAMS  
PHASE 1  
OPTION-A  
SHADE/SHADOW  
WINTER SOLSTICE**

SCALE  
1" = 100'-0"

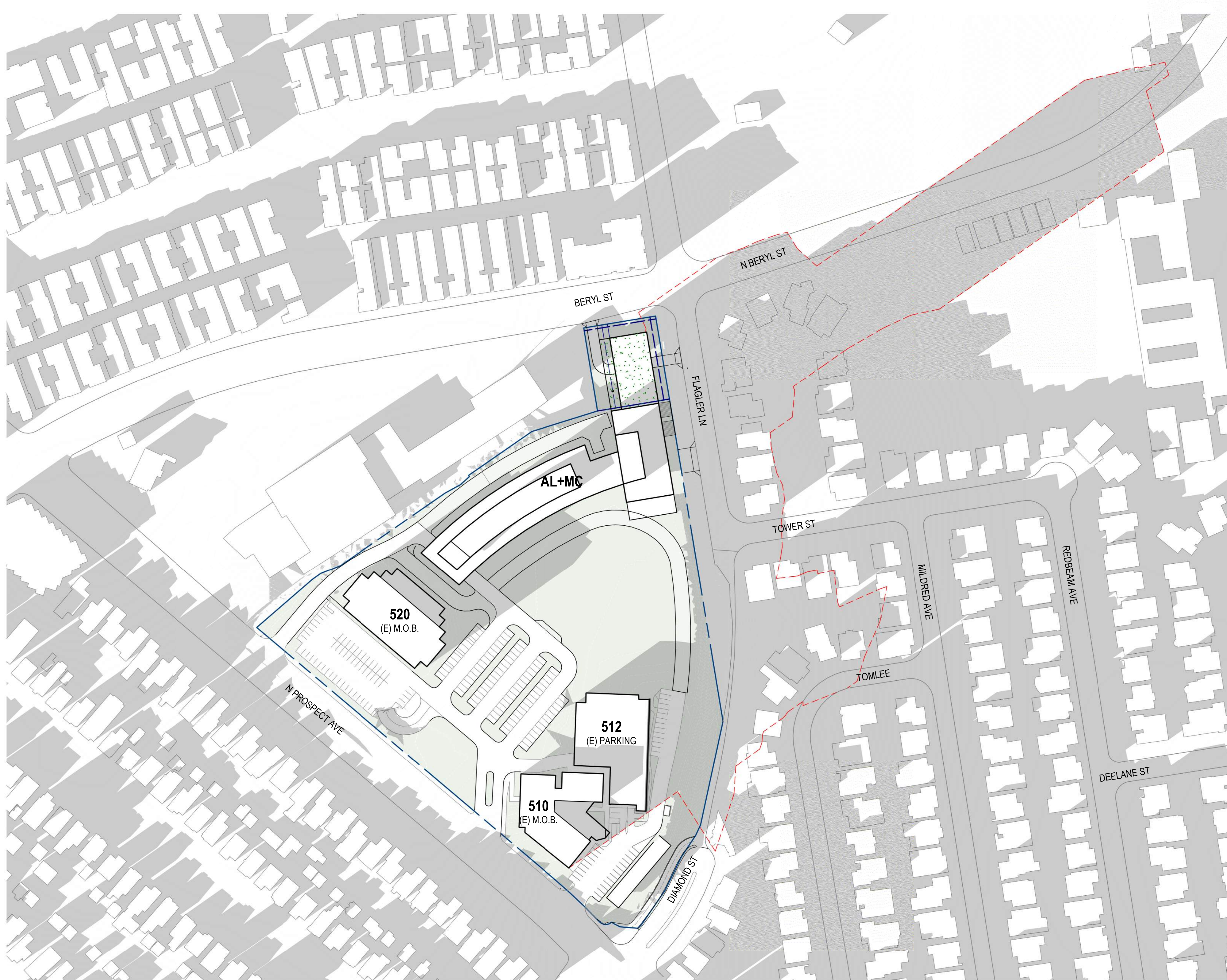
DATE  
02/01/2021

DRAWN	CHECKED
EC	PM

SHEET NO.

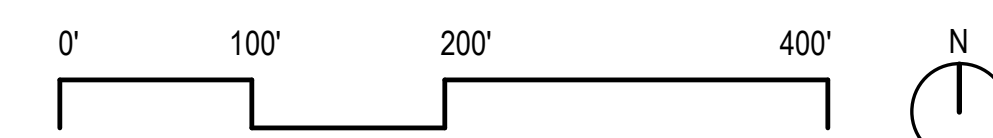
**PH1-A  
A402**





PH1 - WINTER SOLSTICE 4PM ①  
1" = 100'-0"

--- BCHD SITE SHADOW OUTLINE



▲  
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514 NORTH PROSPECT AVE.  
REDONDO BEACH, CA 90277

PMA PROJECT NO.  
19010

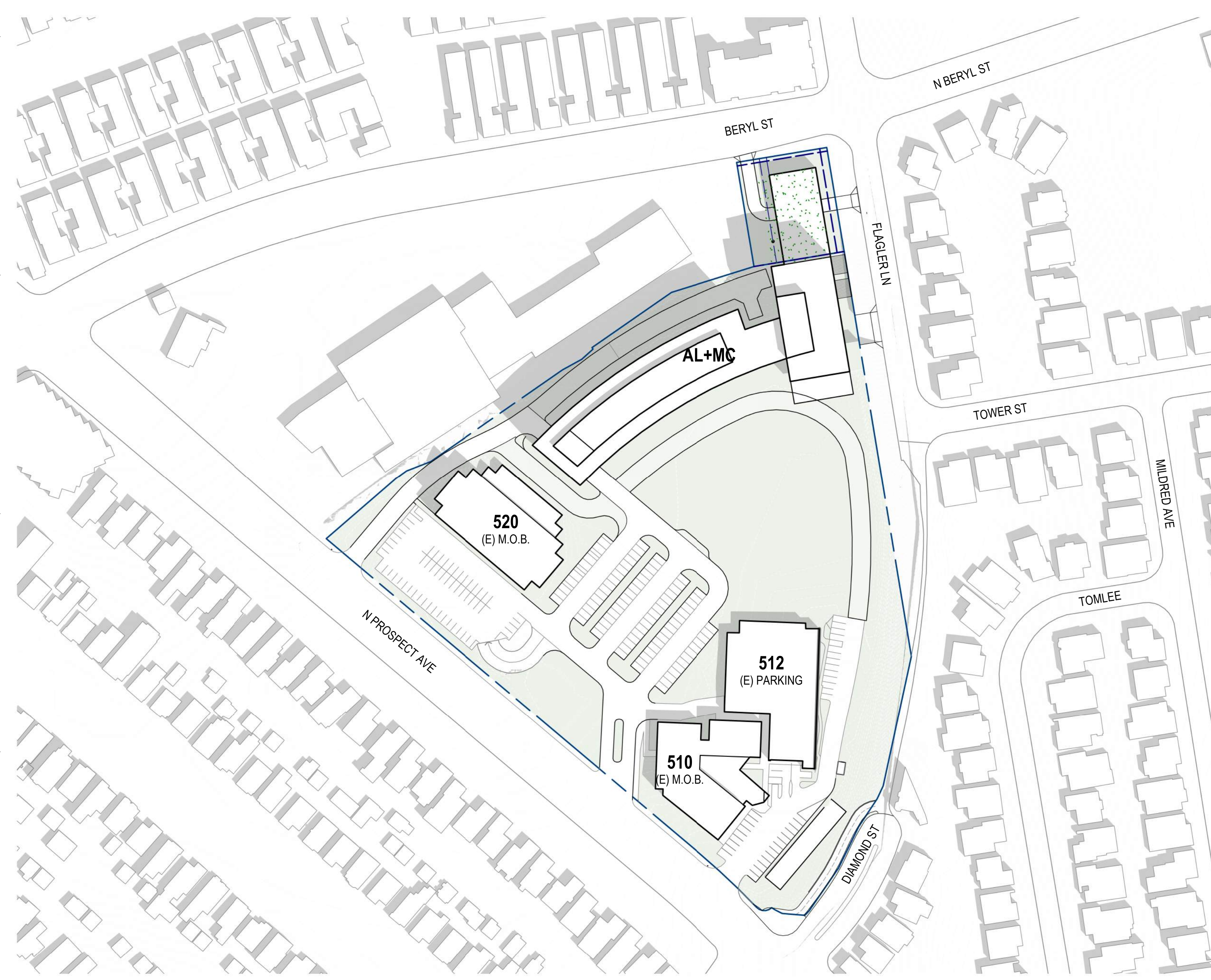
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**PROGRAM TEST  
FIT DIAGRAM  
PHASE 1  
OPTION-A  
SHADE/SHADOW  
WINTER SOLSTICE**

SCALE  
1" = 100'-0"

DATE  
02/01/2021

DRAWN	CHECKED
EC	PM

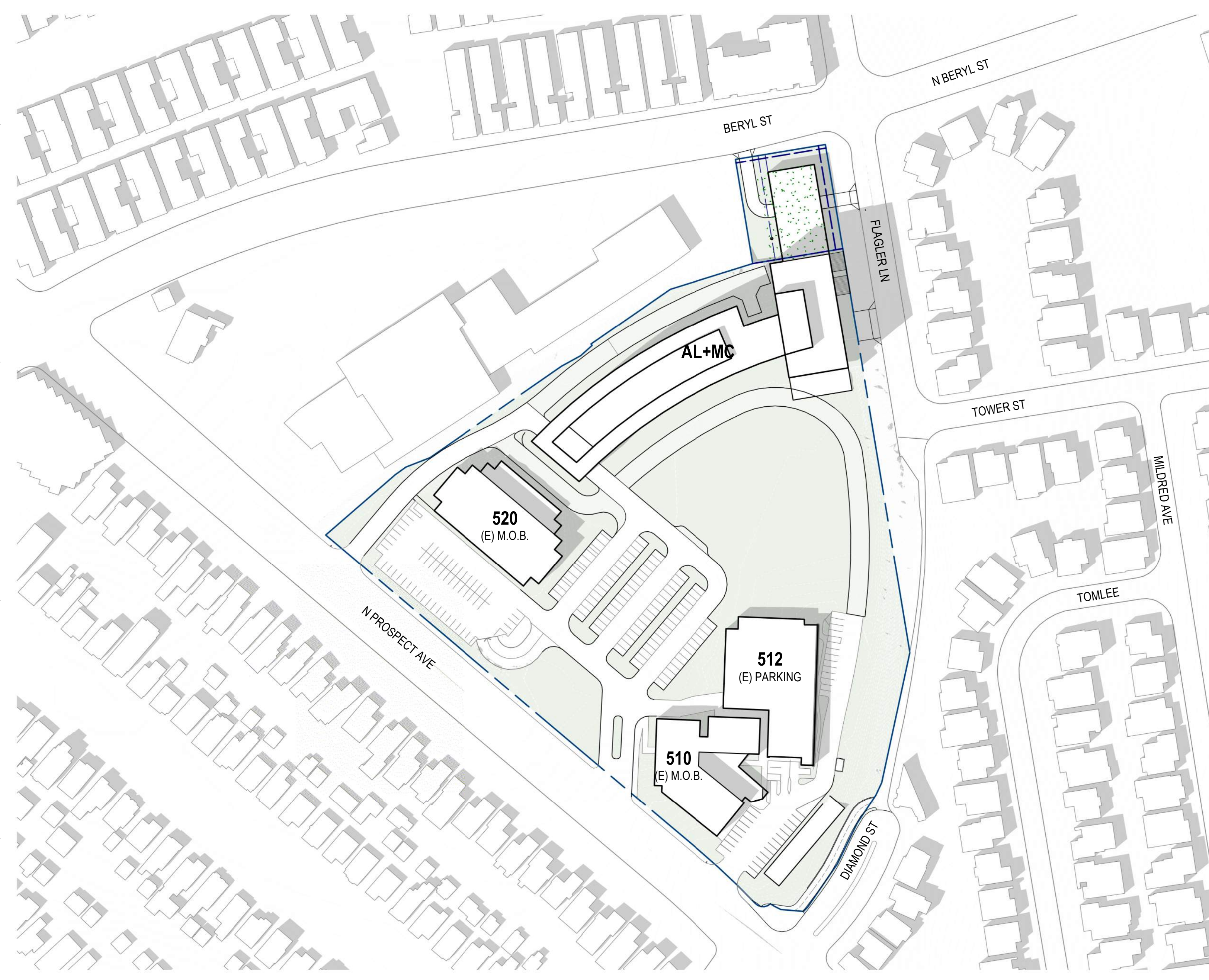
SHEET NO.  
**PH1-A  
A403**



PH1 - FALL EQUINOX 10AM  
1" = 100'-0" 2



PH1 - FALL EQUINOX 8AM  
1" = 100'-0" 1



PH1 - FALL EQUINOX 2PM  
1" = 100'-0" 4

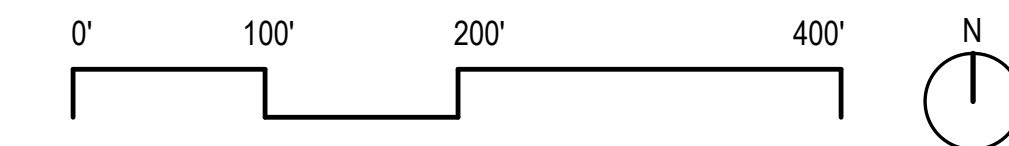
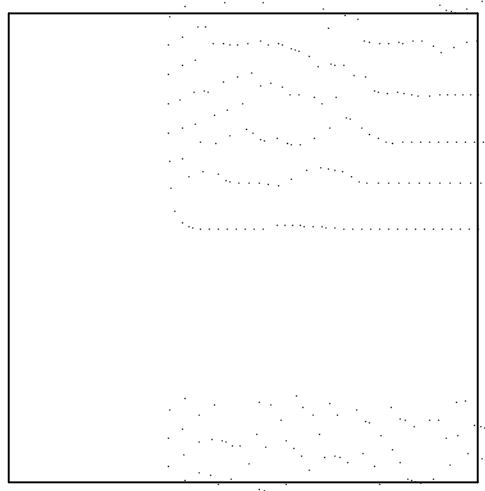


PH1 - FALL EQUINOX 12PM  
1" = 100'-0" 3

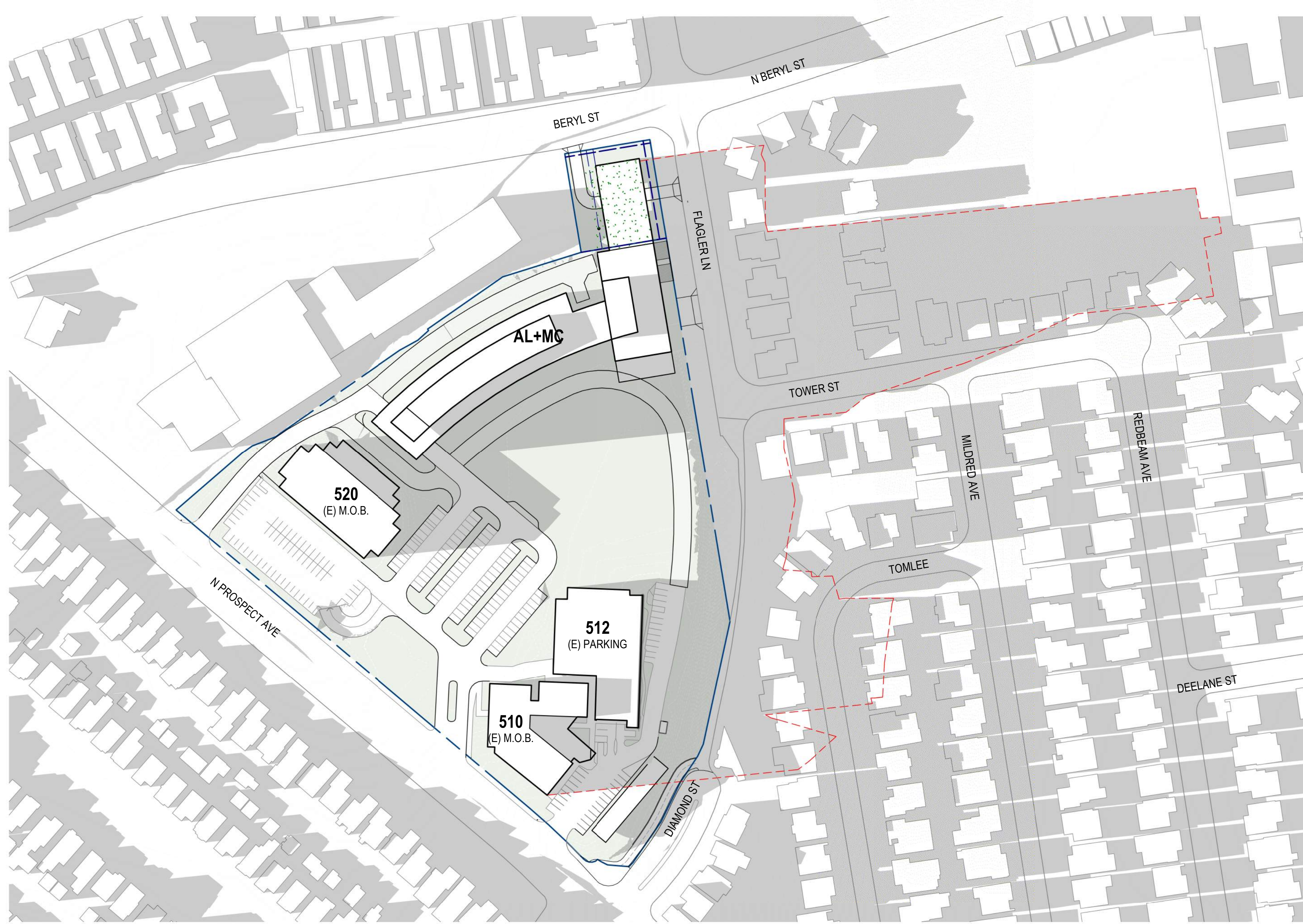
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6310 SAN VICENTE BLVD SUITE 400  
LOS ANGELES, CALIFORNIA 90048  
310.358.0983

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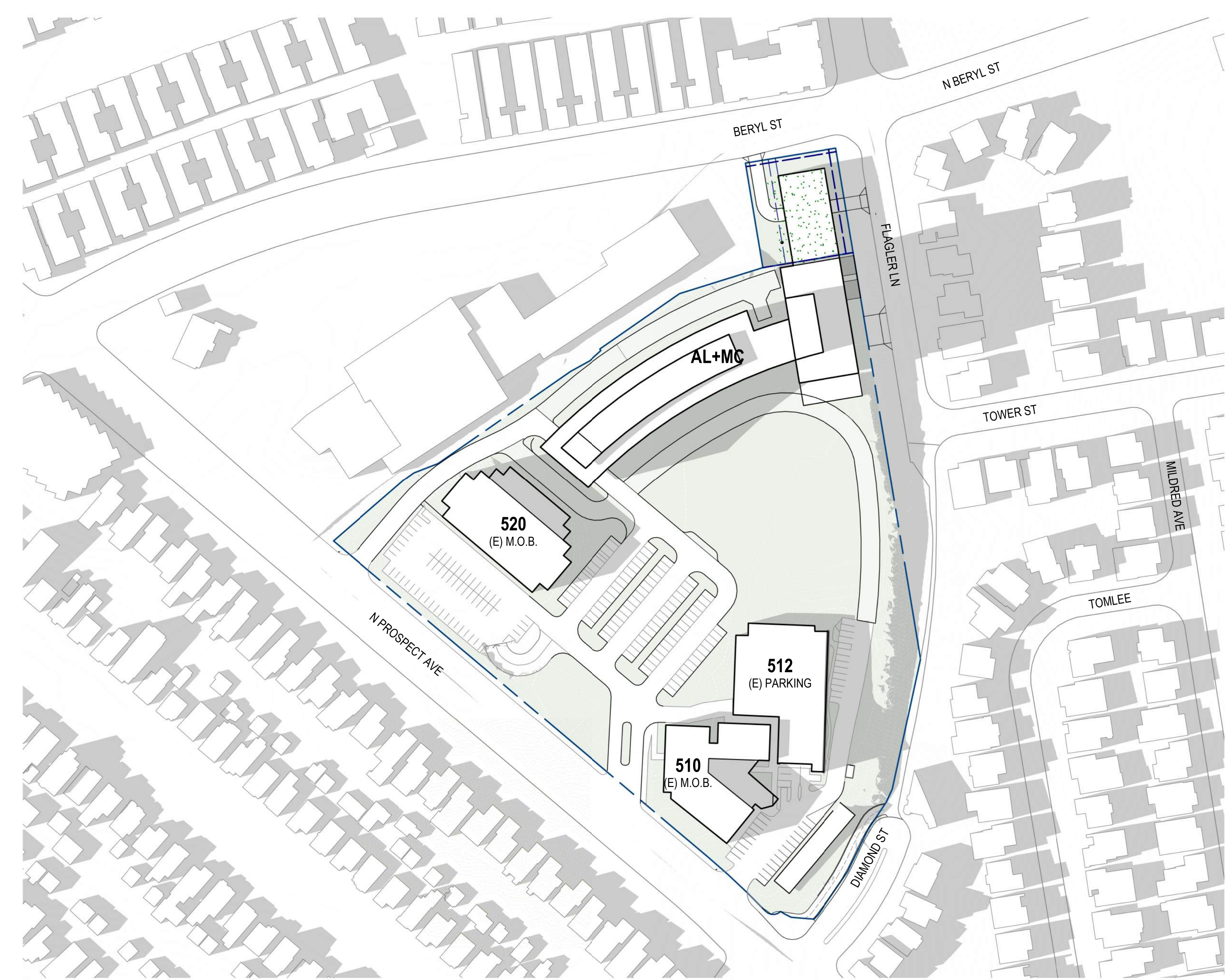


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BEACH CITIES HEALTH DISTRICT HEALTHY LIVING CAMPUS		
514 NORTH PROSPECT AVE. REDONDO BEACH, CA 90277		
PMA PROJECT NO. 19010		
DRAWING TITLE: PROGRAM TEST FIT DIAGRAMS PHASE 1 OPTION-A SHADE/SHADOW FALL EQUINOX		
SCALE: 1" = 100'-0"		
DATE: 02/01/2021		
DRAWN: EC		CHECKED: PM
SHEET NO. PH1-A A404		

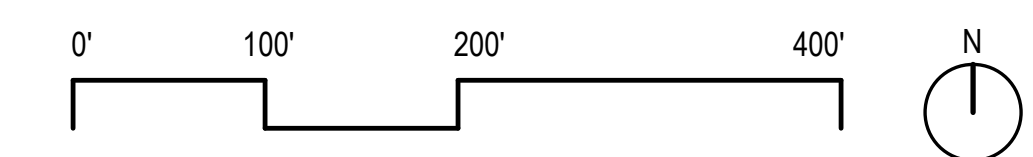


PH1 - FALL EQUINOX 5PM  
1" = 100'-0" ①

--- BCHD SITE SHADOW OUTLINE



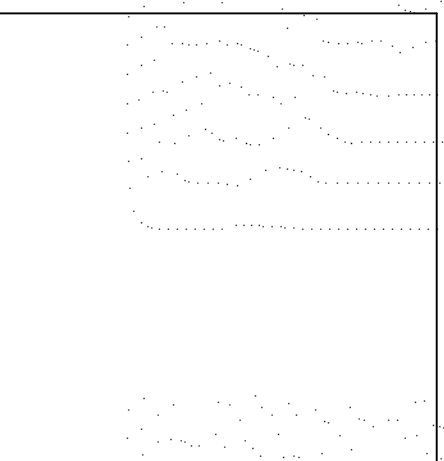
PH1 - FALL EQUINOX 4PM  
1" = 100'-0" ②



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**BEACH CITIES HEALTH DISTRICT HEALTHY LIVING CAMPUS**

514 NORTH PROSPECT AVE.  
REDONDO BEACH, CA 90277

PMA PROJECT NO.  
19010

DRAWING TITLE  
**PROGRAM TEST FIT DIAGRAMS PHASE 1 OPTION-A SHADE/SHADOW FALL EQUINOX**

SCALE  
1" = 100'-0"

DATE  
02/01/2021

DRAWN EC	CHECKED PM
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SHEET NO.

**PH1-A  
A405**