

Appendix B

General Aviation Opportunities Facilities Layout Report

General Aviation Opportunities Facilities Layout Report

Task 5.1.4

**John Wayne-Orange County Airport (SNA)
General Aviation Improvement Program (GAIP)
Project No. 280-280-1900-P320**

February 1, 2018

Quality Information

Prepared by	Checked by	Approved by
Jeff Nisbet Architect	Linell Homentosky Project Manager/ Aviation	Matt Ulukaya Vice President
Bryan Oscarson Technical Leader/Aviation	Donald Winstead Discipline Lead, Architecture	

Revision History

Revision	Revision date	Details	Authorized	Name	Position
V.2	05/25/2017	Editorials (5/16/2017)	County of Orange	Kari Rigoni	Planning Lead
V.3	12/21/2017	Changes to the alternatives	County of Orange	Steve Carrillo	Mgr/Engineering
V.4	1/31/2018	Revised Table 1	County of Orange	Kari Rigoni	Planning Lead

Distribution List

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Prepared for:

The County of Orange
John Wayne Airport

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1. Introduction

AECOM has been retained by Orange County to provide Architect-Engineer (A-E) Preliminary Engineering for the General Aviation Improvement Program (GAIP) at John Wayne-Orange County Airport (SNA or “the Airport”). General aviation (GA) accounts for the majority of the activity at SNA and an increase in the number of based aircraft, particularly jet aircraft and helicopters, has occurred over the past several years. As a result, SNA has begun the process of planning for the future needs of the GA community through a comprehensive program to replace the current facilities.

Under the GAIP, this report provides detailed facility layouts for the GA development areas including conceptual floorplans for proposed building spaces. The facility layouts were derived from preliminary concepts prepared by Orange County and provided to AECOM at the outset of this study. Those concepts have been evaluated, modified, and refined as needed to accommodate, as much as possible, the current and forecast demand for GA facilities. Additional changes were also made to incorporate comments received from the Airport and stakeholders involved.

2. Major Elements of the GAIP

The following GA facilities were evaluated for the GAIP and are discussed in more detail in the separate Facility Requirements report (Task 5.1.2). The GA facilities included in this study are:

- *Full Service Fixed Base Operator (FBO)* – A commercial business that provides a wide range of aeronautical and support services to general aviation pilots, flight crews, and passengers. There are currently two (2) full service FBOs with conventional *community hangars* at SNA and both facilities are located on the east side of the airfield.
- *GA Terminal (GAT)* – A common use facility for charter aircraft operations. There is no GA terminal at SNA. A GA Terminal may be a stand-alone facility or otherwise co-located with a GA International Facility and/or a full service FBO.
- *GA International Facility (GAF)* – A dedicated facility with Federal Inspection Services (FIS) operated by the U.S. Customs & Border Patrol (CBP) for the purpose of inspecting aircraft and passengers arriving in the U.S. from a foreign country. There is no GAF at SNA. A GAF may be a stand-alone facility or otherwise co-located with a GAF and/or a full service FBO.
- *Limited Service FBO* – A commercial business that provides a narrow range of services typically associated with aircraft sales and/or maintenance, repair, and overhaul (MRO) activities. For the purpose of this study, there are two (2) Limited Service FBOs at SNA: Jay's Aircraft Maintenance, which is part of the GAIP; and, Martin Aviation, which is not part of the GAIP.
- *Orange County Sheriff's Department (OCSD)* – The OCSD has a dedicated facility for air operations including office space, hangar space, and an apron area to support their fleet of helicopters. The OCSD is located on the west side of the airfield and currently leases space from an existing FBO.
- *Box Hangars* – A clear-span hangar typically used to store one or more private/business aircraft within a single space. There are 35 box hangars at SNA that accommodate approximately 45 aircraft.
- *T-Hangars* – A small T-shaped hangar typically used to store one airplane (or, in some instances, two helicopters) per unit. Multiple T-hangar units are clustered and arranged in rows to achieve a more efficient use of space. At SNA, there are 111 T-hangars that accommodate approximately 116 aircraft.
- *Tiedowns* – An uncovered parking area equipped with anchors in the pavement and ropes or cables used to secure the aircraft to the ground. SNA has 306 tiedowns for a wide array of aircraft types and sizes.
- *Shade Structures* – A tie-down apron with open-ended structure that provides a roof to shield aircraft from the sun and other weather elements. There are currently 60 shade structures at SNA.
- *Flight School* – A commercial business that provides pilot training including ground school, flight instruction, and pilot certification programs. There are three (3) established flight schools at SNA, all of which currently lease space from an existing FBO.
- *Self-Service Fueling & Wash Rack* – A 24/7 self-serve fuel facility with a fuel storage tank (Avgas only) and an aircraft wash rack. There is currently no self-serve fueling or a wash rack at SNA.

In addition, all the facility layouts considered in this study include three safety/standards projects. The projects are:

- Widening the taxiway object free area (TOFA) along Taxiway A to comply with FAA clearance standard dimensions for Group V aircraft. The vehicle service road (VSR) will be relocated further away from the adjacent taxiway centerline in order to accommodate wider wingspans associated with commercial jets passing by the GA development areas.
- Mitigation of airspace obstructions (obstacles affecting navigable airspace) associated with the existing Full Service Southeast FBO.
- Removal of 31 transient tie-down spaces from the central portion of a Runway Protection Zone (RPZ).

Under the GAIP, there are no proposed changes to the existing airfield runways, passenger terminal complex, fuel storage facilities, or to Martin Aviation/Lyon Air Museum.

3. Alternative Layouts and Options Considered

Four (4) final layouts have been presented to the County for consideration. The alternatives are defined by the number and location of FBOs. They are:

- Proposed Project – Two (2) Full Service FBOs (Northwest and Northeast)
- Alternative 1 – Three (3) Full Service FBOs (Northwest, Northeast, and Southeast)
- Alternative 2 – Two (2) Full Service FBOs (Northeast and Southeast)
- Alternative 3 – Maintain Existing GA Facilities to FAA Standards
 - Widen the Taxiway A TOFA/Realign the VSR
 - Modify the existing Southeast FBO to mitigate obstacles affecting navigable airspace
 - Remove 31 tie-down spaces from the RPZ

Each of the four layouts addresses the need for GA facilities within the GAIP study area, in keeping with the scope and intent of the preliminary concepts provided by the County of Orange.

3.1 GAIP Alternatives

Table 1 lists the facilities associated with the four (4) final layouts illustrated in **Figures 1, 2, 3, and 4**. Under Alternative 3, the GAIP is not implemented; except for the modifications required to comply with FAA safety/standards, the existing GA facilities would remain essentially the same.

The key differences between the Proposed Project, and Alternatives 1 and 2, are the number of full service FBOs and where the FBOs are located. Based on these defining features, the remaining facility requirements (i.e., hangars, tiedowns, etc.) are accommodated to the degree practicable and within the remaining space available. Previous versions of the alternatives included options for a stand-alone GAT/GAF. Those options were eliminated in favor of incorporating the GAT/GAF into one of the Full Service FBO locations.

When comparing the capacity of the FBO facilities, it should be noted that the number of “aircraft in hangars” and the number of “aircraft on apron” is not an absolute. This is because the type and size of aircraft parked at a busy FBO facility is wide ranging and can change frequently, sometimes several times a day. Therefore, standardized planning factors were developed and applied to estimate the capacity of the FBO hangars and aprons based on the space available, with the understanding that the actual storage capacity for each facility is dependent on the actual mix of parked aircraft at any given time.

Table 1: Facilities Matrix Evaluation

Facilities Layout	Proposed Project Figure 1	Alternative 1 Figure 2	Alternative 2 Figure 3	Alternative 3 Figure 4
Brief Description	2 New Full Service FBOs - (1 Eastside and 1 Westside) New GA Terminal/GAF at FBO 1 New Limited Service FBO 1 Existing Limited Service FBO	3 New Full Service FBOs (2 Eastside and 1 Westside) New GA Terminal/GAF at FBO 1 New Limited Service FBO 1 Existing Limited Service FBO	2 New Full Service FBOs – (Both Eastside) New GA Terminal/GAF at FBO 1 New Limited Service FBO 1 Existing Limited Service FBO	2 Existing Full Service FBOs (Both Eastside) 2 Existing Limited Service FBOs No GA Terminal/GAF
Full Service FBO Northwest	15 Aircraft in Hangars 99,000 SF Hangar 17 Based Aircraft on Apron 282,757 SF Apron 21,653 SF FBO Terminal 3,953 SF GA Terminal 1,952 SF GA Facility 355 Vehicle Parking Spaces	15 Aircraft in Hangars 99,000 SF Hangar 17 Based Aircraft on Apron 282,757 SF Apron 21,653 SF FBO Terminal 3,953 SF GA Terminal 1,952 SF GA Facility 355 Vehicle Parking Spaces	N/A	N/A
Full Service FBO Northeast	15 Aircraft in Hangars 100,320 SF Hangar 15 Based Aircraft on Apron 237,866 SF Apron 21,653 SF FBO Terminal 3,953 SF GA Terminal 1,952 SF GA Facility 246 Vehicle Parking Spaces	15 Aircraft in Hangars 100,320 SF Hangar 15 Based Aircraft on Apron 242,209 SF Apron 21,653 SF FBO Terminal 3,953 SF GA Terminal 1,952 SF GA Facility 413 Shared Vehicle Parking Spaces	15 Aircraft in Hangars 100,320 SF Hangar 15 Based Aircraft on Apron 242,209 SF Apron 21,653 SF FBO Terminal 3,953 SF GA Terminal 1,952 SF GA Facility 413 Shared Vehicle Parking Spaces	5 Aircraft in Hangars 21,000 SF Hangar 20 Based Aircraft on Apron 271,290 SF Apron 12,840 SF FBO Terminal N/A N/A 164 Vehicle Parking Spaces
Full Service FBO Southeast	N/A	15 Aircraft in Hangars 100,320 SF Hangar 15 Based Aircraft on Apron 242,209 SF Apron 21,653 SF FBO Terminal 3,953 SF GA Terminal 1,952 SF GA Facility Shared with Full Service FBO NE	15 Aircraft in Hangars 100,320 SF Hangar 15 Based Aircraft on Apron 242,209 SF Apron 21,653 SF FBO Terminal 3,953 SF GA Terminal 1,952 SF GA Facility Shared with Full Service FBO NE	6 Aircraft in Hangars 17,104 SF Hangar 17 Based Aircraft on Apron 270,192 SF Apron 4,740 SF FBO Terminal N/A N/A 210 Vehicle Parking Spaces
Total Full Service FBOs	30 Aircraft in Hangars 199,320 SF Hangar 32 Based Aircraft on Apron 520,623 SF Apron 43,306 SF FBO Terminal 7,906 SF GA Terminal 3,904 SF GA Facility 601 Vehicle Parking Spaces	45 Aircraft in Hangars 299,640 SF Hangar 47 Based Aircraft on Apron 767,175 SF Apron 64,959 SF FBO Terminal 11, 859 SF GA Terminal 5,856 SF GA Facility 768 Vehicle Parking Spaces	30 Aircraft in Hangars 200,640 SF Hangar 30 Based Aircraft on Apron 484,418 SF Apron 43,306 SF FBO Terminal 7,906 SF GA Terminal 3,904 SF GA Facility 413 Vehicle Parking Spaces	11 Aircraft in Hangars 38,104 SF Hangar 37 Based Aircraft on Apron 541,482 SF Apron 17,580 SF FBO Terminal N/A N/A 374 Vehicle Parking Spaces

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Table 1 (continued): Facilities Matrix Evaluation

Facilities Layout	Proposed Project Figure 1	Alternative 1 Figure 2	Alternative 2 Figure 3	Alternative 3 Figure 4
Limited Service FBO Martin Aviation	65,000 SF Hangar 134,013 SF Apron 8 Aircraft On Apron 80 Vehicle Parking Spaces	65,000 SF Hangar 134,013 SF Apron 8 Aircraft On Apron 80 Vehicle Parking Spaces	65,000 SF Hangar 134,013 SF Apron 8 Aircraft On Apron 80 Vehicle Parking Spaces	65,000 SF Hangar 134,013 SF Apron 8 Aircraft On Apron 80 Vehicle Parking Spaces
Limited Service FBO Southwest	44,741 SF Hangar 17 Aircraft in Hangars 62 Vehicle Parking Spaces	44,741 SF Hangar 17 Aircraft in Hangars 62 Vehicle Parking Spaces	44,741 SF Hangar 17 Aircraft in Hangars 62 Vehicle Parking Spaces	12,000 SF Hangar N/A 8 Vehicle Parking Spaces
Box Hangars	30 Aircraft	None	19 Aircraft	45 Aircraft
T-Hangars	96 Aircraft Spaces	114 Aircraft Spaces	73 Aircraft Spaces	111 Aircraft Spaces
Tiedowns	88 Aircraft Spaces	72 Aircraft Spaces	132 Aircraft Spaces	276 Aircraft Spaces
Shade Structures	N/A	N/A	N/A	66 Aircraft Spaces
Flight School	9,342 SF Building 142,566 SF Apron 47 Aircraft on Apron 52 Vehicle Parking Spaces	9,342 SF Building 142,566 SF Apron 47 Aircraft on Apron 52 Vehicle Parking Spaces	9,342 SF Building 142,566 SF Apron 47 Aircraft on Apron 52 Vehicle Parking Spaces	Undefined
OC Sherriff's Department	11,429 SF Hangar 5 Aircraft in Hangar 31,039 SF Apron 21 Vehicle Parking Spaces	11,429 SF Hangar 5 Aircraft in Hangar 31,039 SF Apron 21 Vehicle Parking Spaces	11,429 SF Hangar 5 Aircraft in Hangar 31,039 SF Apron 20 Vehicle Parking Spaces	Undefined
Self Serve Aircraft Fuel Station & Wash Rack	14,545 SF	14,545 SF	14,545 SF	N/A

3.2 The Proposed Project

The Proposed Project is depicted in **Figure 1** and includes the following facilities:

- Two (2) Full Service FBOs—one on the northwest side and one on the northeast side
 - The Northwest FBO includes a two-story terminal/office building, three (3) community hangars, transient aircraft apron, and auto parking.
 - The Northeast FBO includes a two-story terminal/office building with an adjoined community hangar, three (3) more community hangars, transient aircraft apron, and auto parking.
- GA Terminal/GAF (optional)
 - Each Full service FBO location includes the option to include a GA Terminal/GAF. The consolidated facility includes a dedicated area for charter operations, a separate receiving and processing area for international arrivals, ancillary offices and support space for both functions, aircraft parking apron, and auto parking.
- Limited Service FBO
 - The existing Limited Service Southwest FBO is redeveloped with new facilities for aircraft maintenance and repair.
- OCSD Air Support Facility
 - The OCSD is located at the south end of the Full Service Northwest FBO. The new facility consists of a two-story terminal building for operations and administrative support functions, an aircraft hangar and apron area for OCSD's helicopters, and auto parking.

In addition, the Proposed Project includes the following facilities listed in **Table 1**:

- New T-Hangars
- New Box Hangars
- New Flight School Building
- New Self-Service Fueling

Conceptual floorplans for the buildings associated with the Proposed Project are presented in **Section 4.1** of this report.

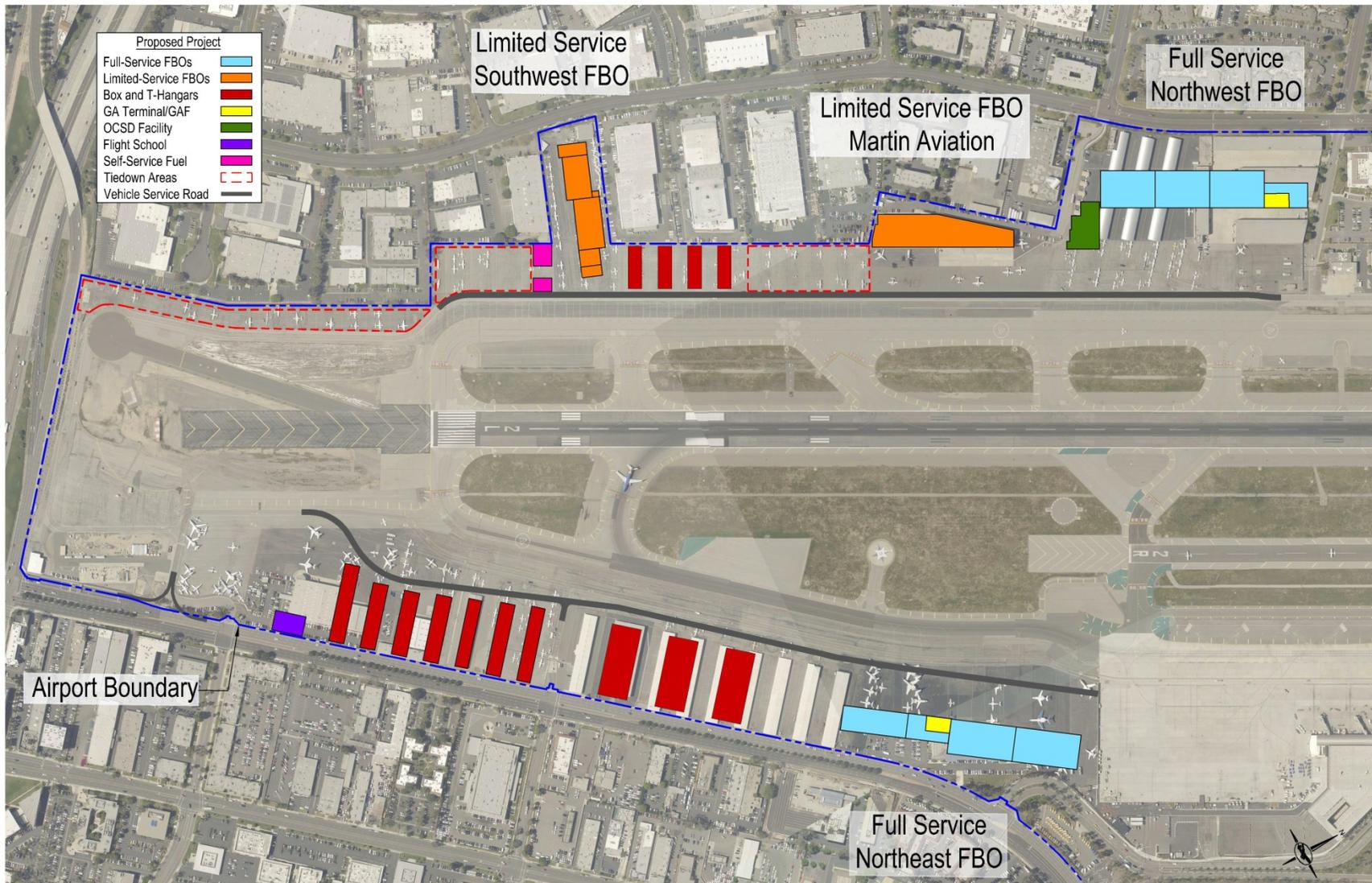


Figure 1: Proposed Project

3.3 Alternative 1

Alternative 1 is depicted in **Figure 2** and includes the following facilities:

- Three (3) Full Service FBOs—located on the northwest, northeast, and southeast areas of the GAIP
 - The Northwest FBO includes a two-story terminal/office building, three (3) community hangars, transient aircraft apron, and auto parking (similar to the Proposed Project).
 - The Northeast FBO includes a two-story terminal/office building, three (3) community hangars, transient aircraft apron, and auto parking.
 - The Southeast FBO includes a two-story terminal/office building, three (3) community hangars, transient aircraft apron, and auto parking.
- GA Terminal/GAF (optional)
 - Each Full service FBO location includes the option to include a GA Terminal/GAF. The consolidated facility includes a dedicated area for charter operations, a separate receiving and processing area for international arrivals, ancillary offices and support space for both functions, aircraft parking apron, and auto parking.
- Limited Service FBO
 - The current Southwest Limited Service FBO area is redeveloped with new facilities for aircraft maintenance and repair.
- OCSD Air Support Facility
 - The OCSD is located at the south end of the Full Service Northwest FBO. The new facility consists of a two-story terminal building for operations and administrative support functions, an aircraft hangar and apron area for OCSD's helicopters, and auto parking.

In addition, Alternative 1 includes the following facilities listed in **Table 1**:

- New T-Hangars
- New Box Hangars
- New Flight School Building
- New Self-Service Fueling

Conceptual floorplans for the buildings associated with Alternative 1 are presented in **Section 4.2** of this report.

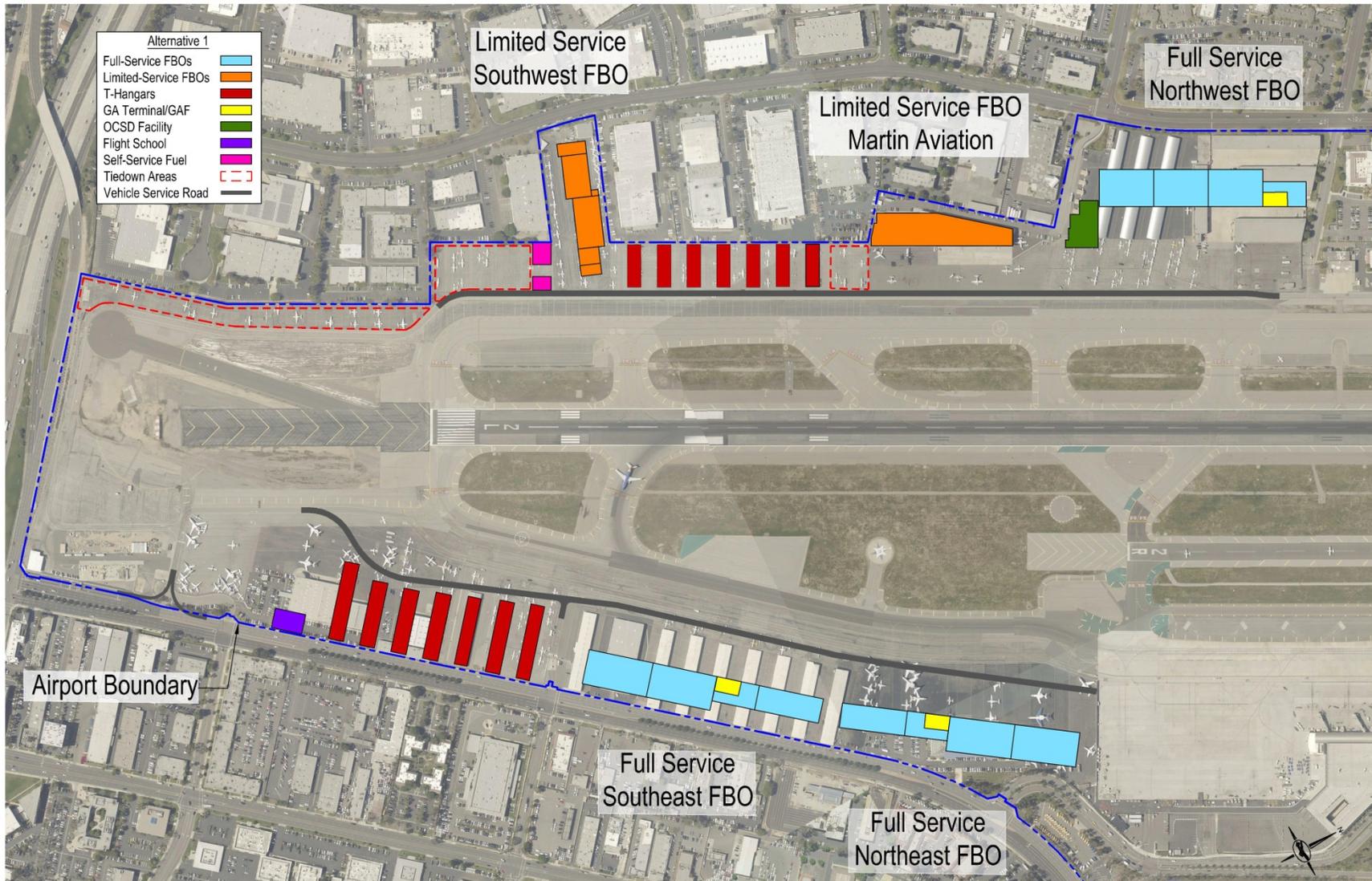


Figure 2: Alternative 1

3.4 Alternative 2

Alternative 2 is depicted in **Figure 3** and includes the following facilities:

- Two (2) Full service FBOs—both located on the east side of the airfield
 - The Northeast FBO includes a two-story terminal/office building with a connected hangar, three (3) additional community hangars, transient aircraft apron, and auto parking.
 - The Southeast FBO includes a two-story terminal/office building, three (3) community hangars, transient aircraft apron, and auto parking.
- GA Terminal/GAF (optional)
 - Each Full service FBO location includes the option to include a GA Terminal/GAF. The consolidated facility includes a dedicated area for charter operations, a separate receiving and processing area for international arrivals, ancillary offices and support space for both functions, aircraft parking apron, and auto parking.
- Limited Service FBO
 - The current Southwest Limited Service FBO area is redeveloped with new facilities for aircraft maintenance and repair.
- New Box Hangars
 - The option for a Full Service Northwest FBO is replaced by a Box Hangar layout with 19 units that can accommodate a wide range of aircraft types up to and including global business jets.

In addition, Alternative 2 includes the following facilities listed in **Table 1**.

- New T-Hangars
- New Flight School Building
- New Self-Service Fueling

Conceptual floorplans for the buildings associated with Alternative 2 are presented in **Section 4.3** of this report.

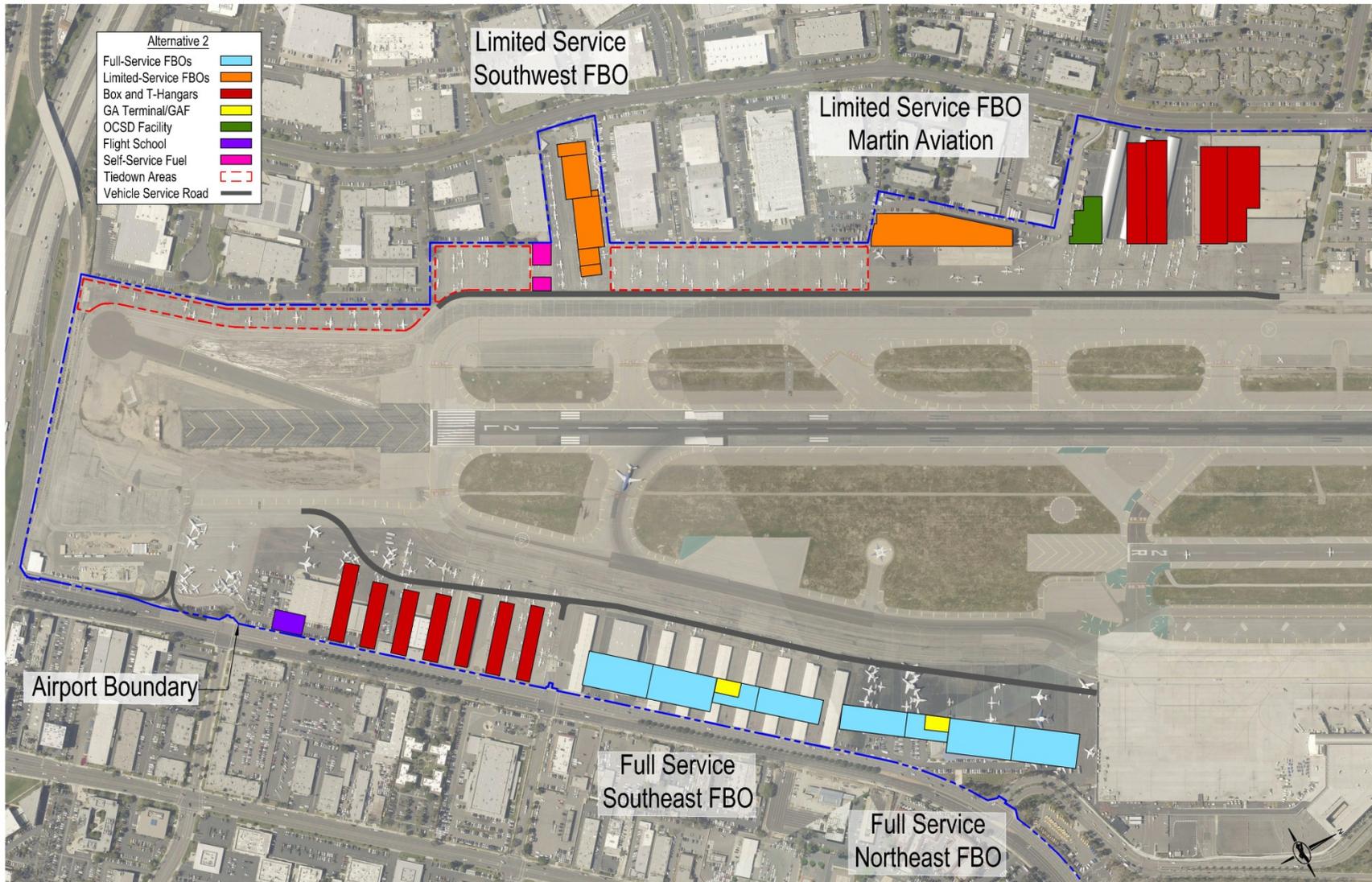


Figure 3: Alternative 2

3.5 Alternative 3

Alternative 3 is depicted in **Figure 4** and includes the following:

- Maintenance of existing facilities in a state of good repair
- Widen the Taxiway A TOFA/Realign the VSR
- Mitigation of airspace obstruction(s) associated with the existing Full Service Southeast FBO
- Removal of 31 transient tie-down spaces from the central portion of an existing Runway Protection Zone (RPZ).

No conceptual floorplans are associated with Alternative 3 because no new buildings are proposed.

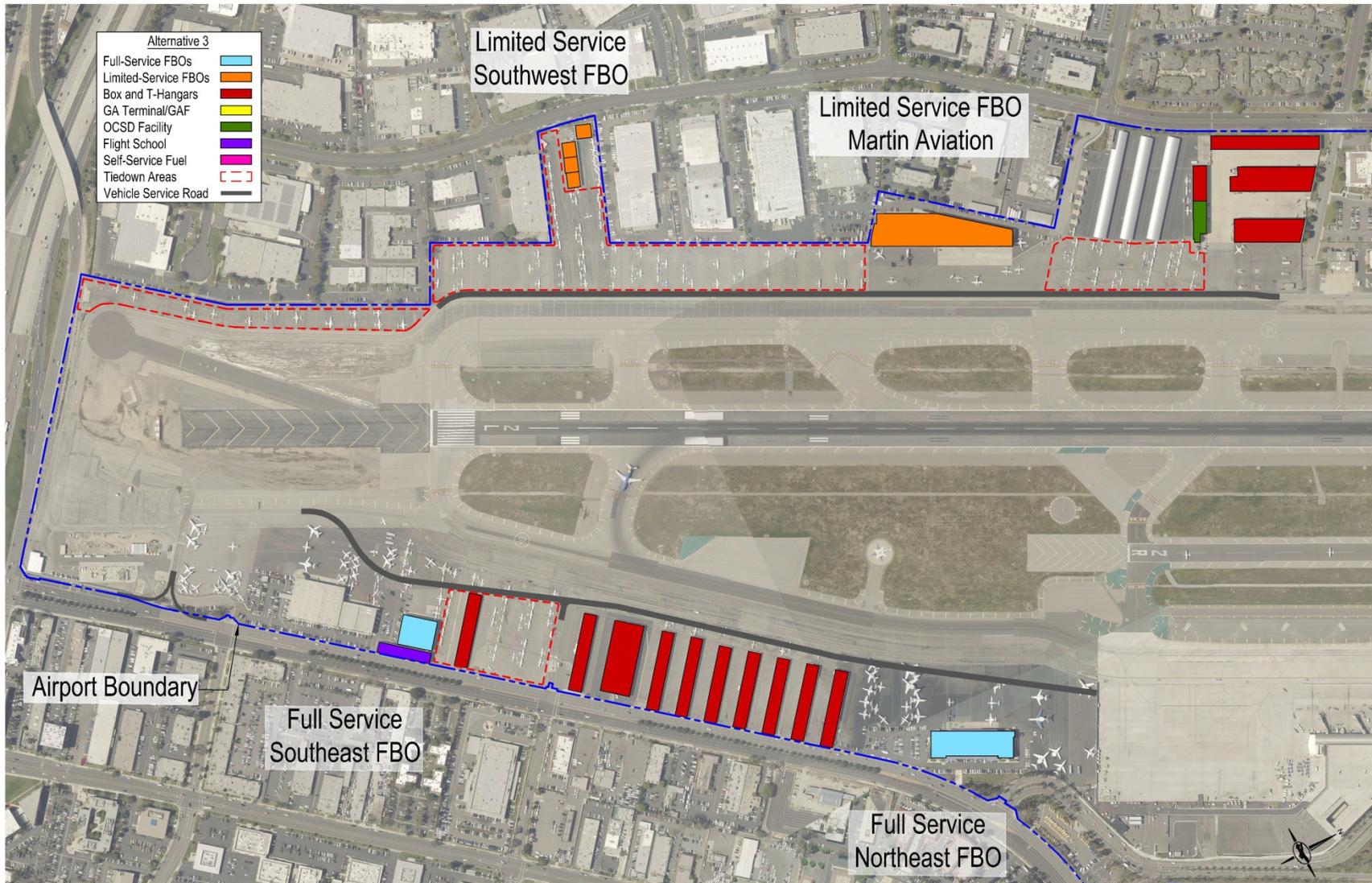


Figure 4: Alternative 3

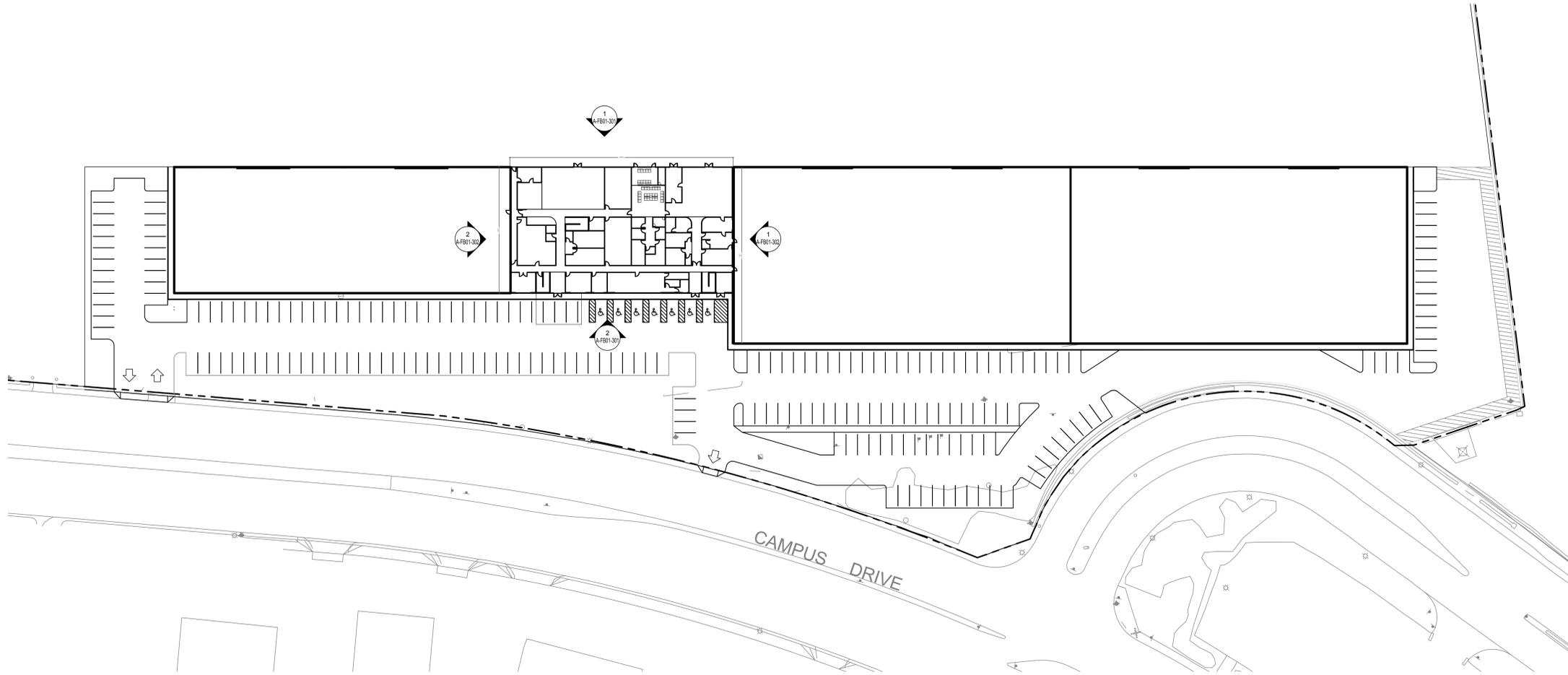
4. Conceptual Building Layouts

4.1 Proposed Project

The following architectural plans provide preliminary floor plan design drawings for each building associated with the Proposed Project.

Facility	Overall Plan	First Floor Plan	Second Floor Plan	Exterior Elevations
Full Service Northwest FBO	X	X	X	X
Full Service Northeast FBO	X	X	X	X
Limited Service Southwest FBO	X	X	X	X
OCSD Air Support Facility	X	X	X	X
Box Hangars		X		X
T-Hangars (Multi-Engine)		X		X
T-Hangars (Single Engine)		X		X
Flight School	X	X		X

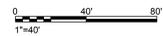
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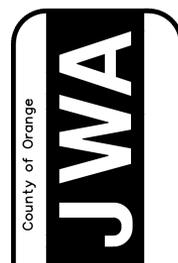
1 OVERALL PLAN

A-FB0-100 REF: A-FB0-301

SCALE: 1"=40'-0"



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HANGAR 2	36960 SF
HANGAR 3	36960 SF
Grand total: 3	100320 SF



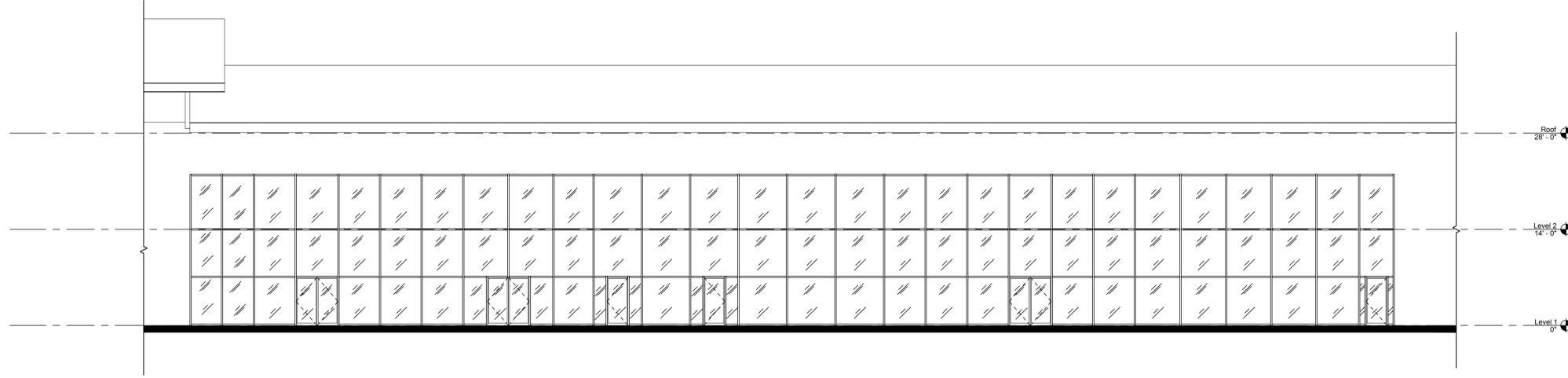
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Proj. No.	P xxx
Date:	DEC. 14, 2017

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Section Manager	
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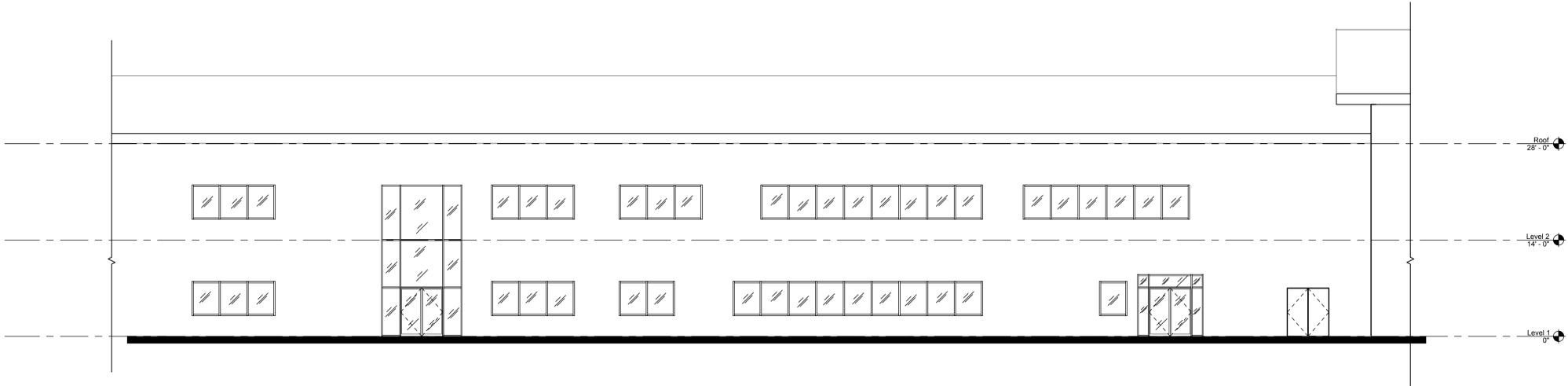
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2 OFFICES WEST ELEVATION

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SCALE: 1/8" = 1'-0"



1 OFFICES EAST ELEVATION

A-FB01-301 REF: A103

SCALE: 1/8" = 1'-0"



Revisions	Sym.	Date	By

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A-E	SEAL	Date	Chkd.	Date	Chkd.

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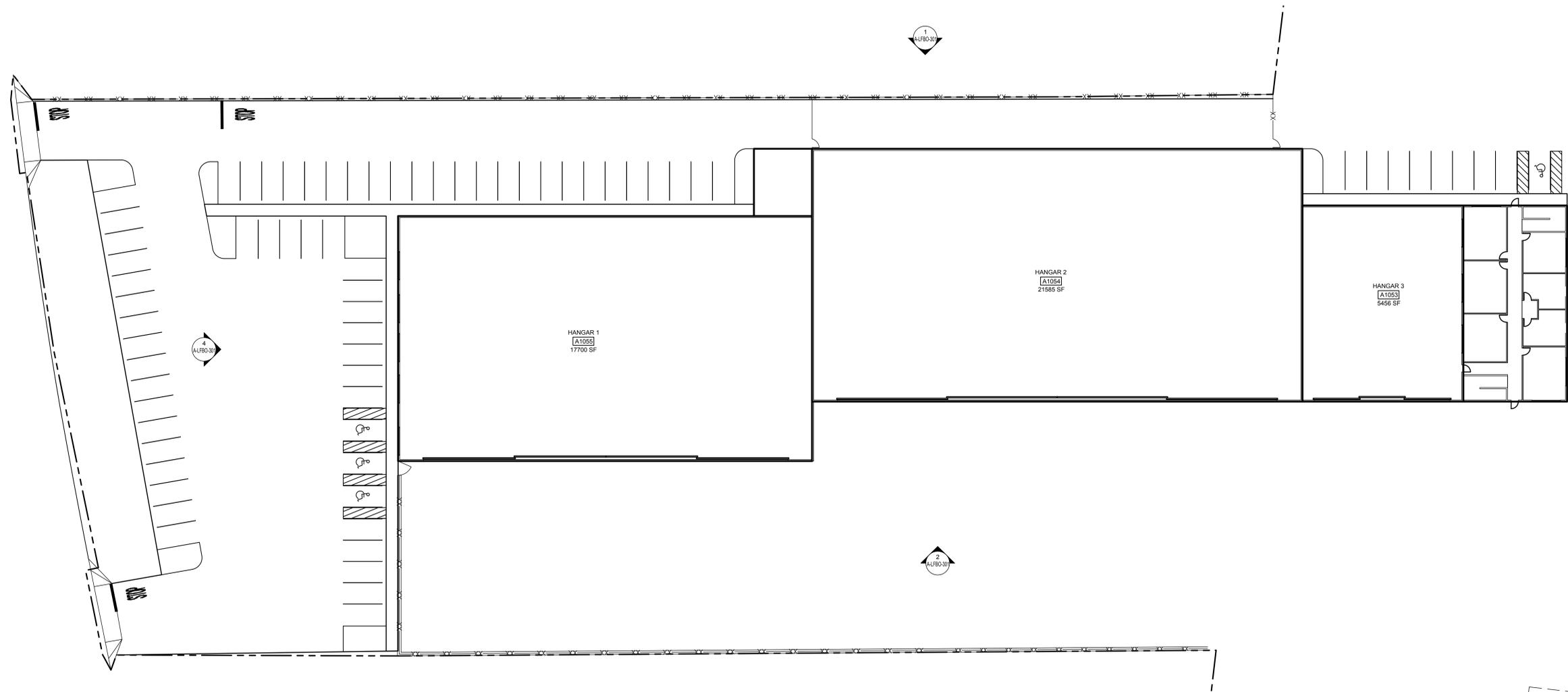
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County of Orange
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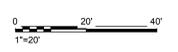
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PROJECT SQUARE FOOTAGE	
ROOM NAME	Area
HANGAR BAY 1	17700 SF
HANGAR BAY 2	21585 SF
HANGAR BAY 3	5456 SF
Grand total: 11	44741 SF



1 OVERALL PLAN
 A-LFBO-100 REF: A-LFBO-301 SCALE: 1"=20'-0"



County of Orange
JWA

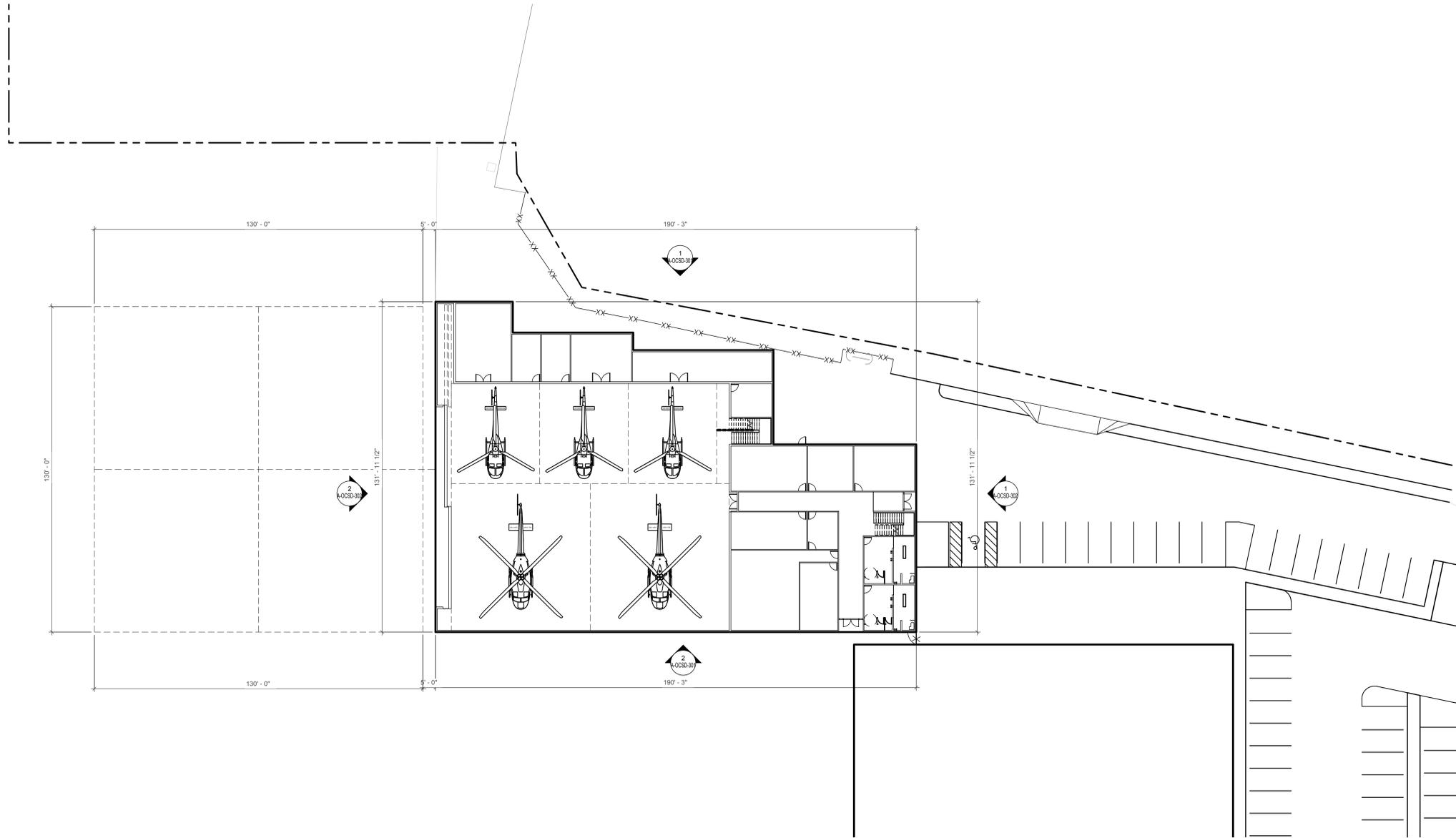
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 ORANGE COUNTY, CALIFORNIA
 P xxx Date: DEC. 14, 2017
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 Section Manager
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1 OVERALL PLAN

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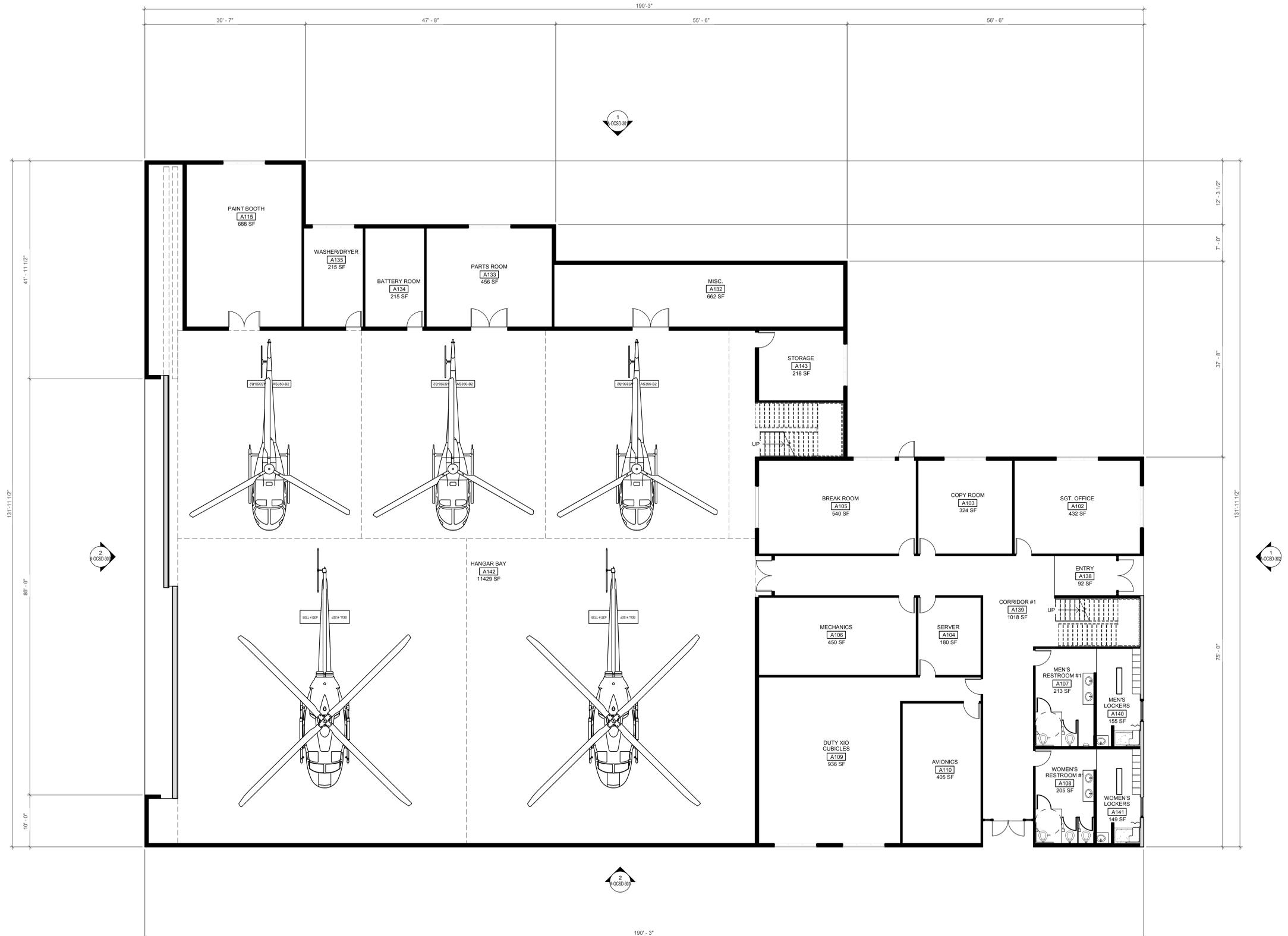
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Name	Area
AVIONICS OFFICE	405 SF
BATTERY STORAGE	215 SF
BREAK ROOM	540 SF
BUNK ROOM	576 SF
CONFERENCE	684 SF
COPY ROOM	324 SF
CORRIDOR #1	1018 SF
CORRIDOR #2	623 SF
CUSTODIAL	100 SF
DEPUTY XIO CUBICLES	936 SF
EER	216 SF
ENTRY	92 SF
EOC	1260 SF
GYM/ FITNESS	418 SF
HANGAR BAY	11429 SF
MECHANICS OFFICE	450 SF
MEN'S LOCKERS	155 SF
MEN'S RESTROOM #1	213 SF
MEN'S RESTROOM #2	397 SF
MEZZANINE STORAGE	2248 SF
MISC	662 SF
PAINT BOOTH	688 SF
PARTS ROOM	456 SF
READY ROOM	1050 SF
SERVER	180 SF
SGT. OFFICE	432 SF
STORAGE	218 SF
WASHER/DRYER	215 SF
WOMEN'S LOCKERS	149 SF
WOMEN'S RESTROOM #1	205 SF
WOMEN'S RESTROOM #2	343 SF
Grand total: 31	26896 SF



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1 FIRST FLOOR PLAN

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SCALE: 1/8" = 1'-0"



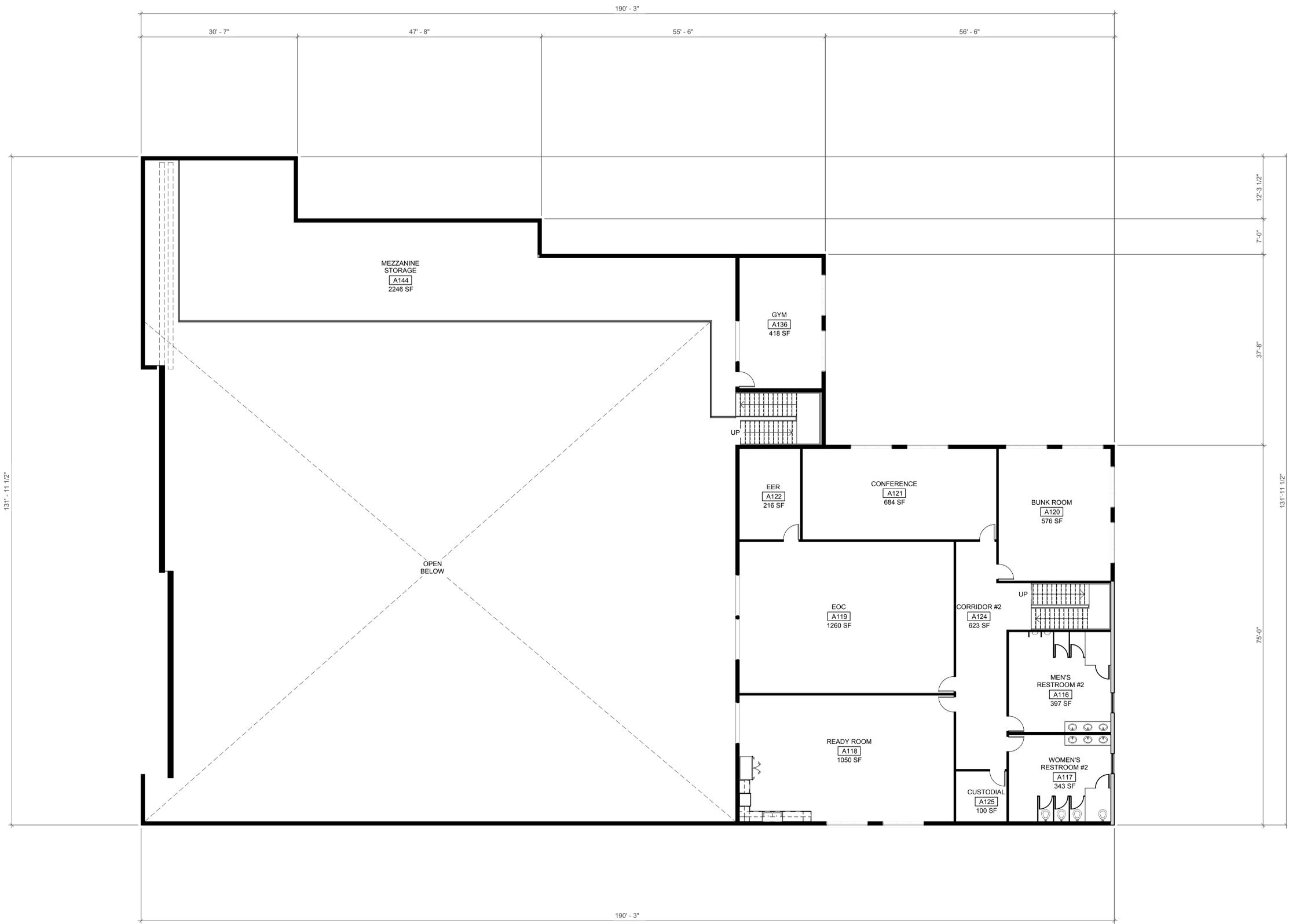
Revisions	SEAL	Consultant	SEAL	SEAL	SEAL	By
		AECOM				
		400 FOWLER COUNTY ROAD ORANGE, CALIFORNIA 92668 T: 714.987.2400 F: 714.987.2728 www.aecom.com				

Sht Title OCSD - FIRST FLOOR PLAN
 Project GA IMPROVEMENT PROGRAM
 WEST SIDE DEVELOPMENT - PROPOSED
 JOHN WAYNE AIRPORT
 ORANGE COUNTY, CALIFORNIA
 P xxx Date: DEC. 14, 2017
 Drawn: Chkd.

Approvals
 Project Manager
 Section Manager
 12/14/17
 Date
 Plan No.
 xxx
 Sheet
 A-OCSD-101
 123 of 130

15% DESIGN SUBMITTAL

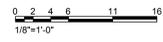
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1 SECOND FLOOR PLAN

A-OCSD-102 REF: A-OCSD-301

SCALE: 1/8" = 1'-0"



Revisions	SEAL	Consultant	SEAL	SEAL	SEAL
		AECOM			
		600 FOWLER BLVD., SUITE 1000 ORANGE, CALIFORNIA 92668 T: 714.987.2400 F: 714.987.2728 www.aecom.com			

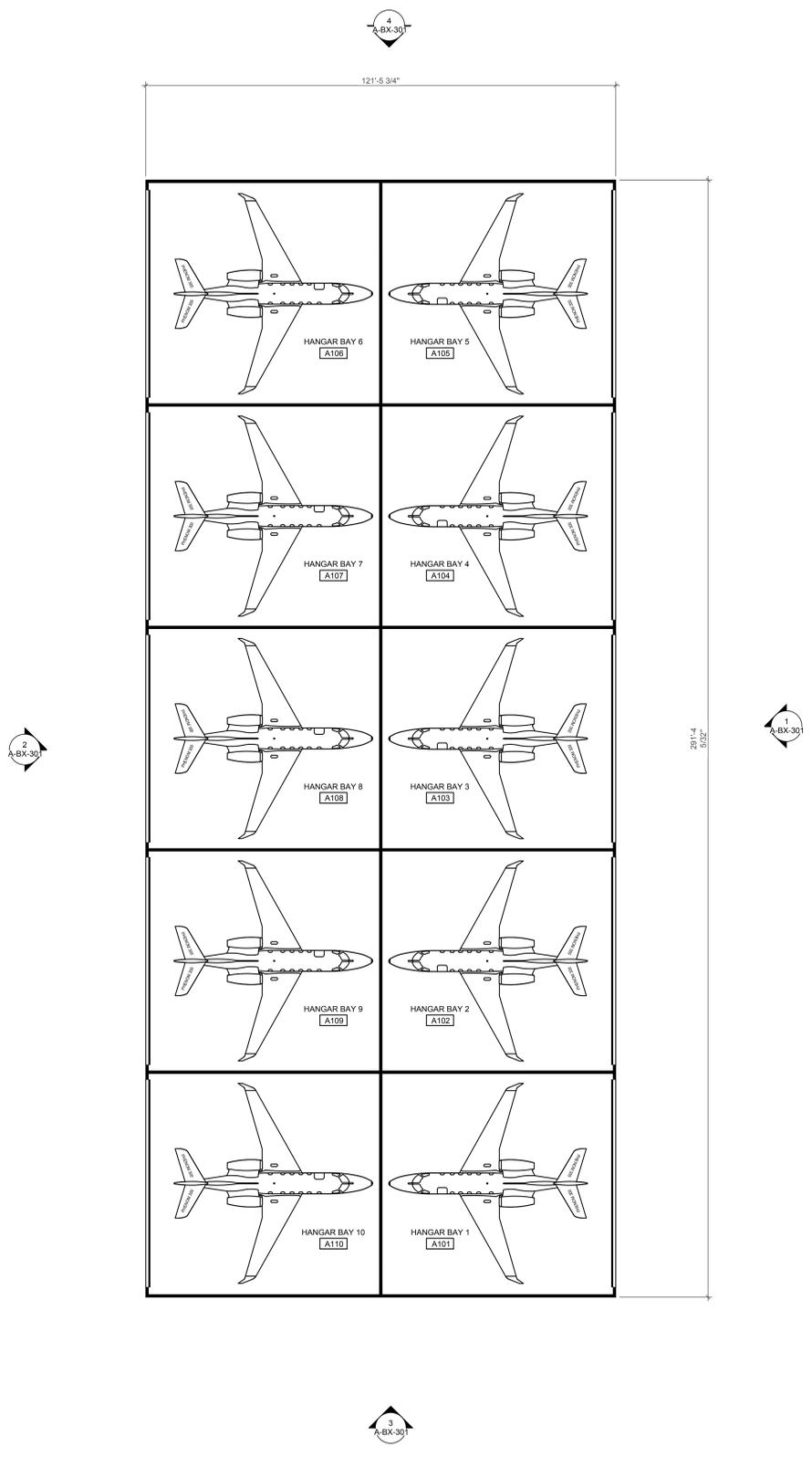
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Project	GA IMPROVEMENT PROGRAM WEST SIDE DEVELOPMENT - PROPOSED JOHN WAYNE AIRPORT ORANGE COUNTY, CALIFORNIA
Proj. No.	P xxx
Date:	DEC. 14, 2017

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Project Manager	
Section Manager	
Date	12/14/17
Plan No.	xxx
Sheet	A-OCSD-102
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15% DESIGN SUBMITTAL

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PROJECT SQUARE FOOTAGE	
NAME	AREA
HANGAR BAY 1	3564 SF
HANGAR BAY 2	3522 SF
HANGAR BAY 3	3522 SF
HANGAR BAY 4	3522 SF
HANGAR BAY 5	3564 SF
HANGAR BAY 6	3564 SF
HANGAR BAY 7	3522 SF
HANGAR BAY 8	3522 SF
HANGAR BAY 9	3522 SF
HANGAR BAY 10	3564 SF
Grand total: 10	35388 SF



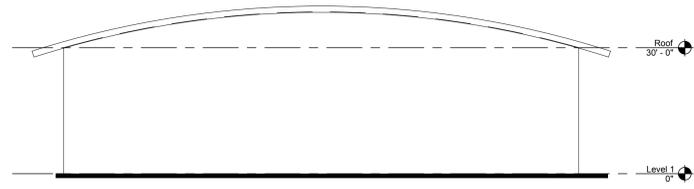
1 FIRST FLOOR PLAN - 10 BAY BOX HANGAR

A-BX-100 REF: A-BX-301

SCALE: 1" = 200'-0"

		County of Orange
Sht Title BOX HANGAR TWIN ENGINE - FLOOR PLAN	Project GA IMPROVEMENT PROGRAM EAST SIDE DEVELOPMENT - PROPOSED JOHN WAYNE AIRPORT ORANGE COUNTY, CALIFORNIA	Date: DEC. 14, 2017 P xxx
Approvals Project Manager _____ Section Manager _____	Date 12/14/17 Plan No. xxx Sheet A-BX-100	Date 12/14/17 By _____
15% DESIGN SUBMITTAL		

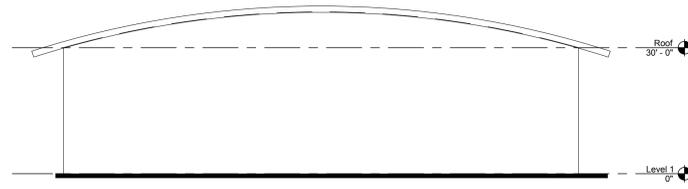
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3 EAST ELEVATION

A-TT-301 REF: A103

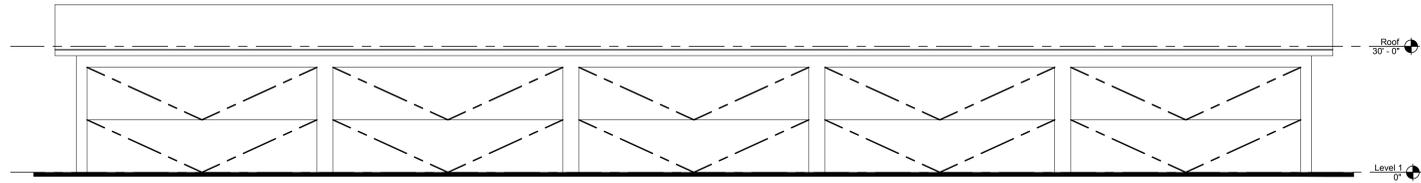
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1 WEST ELEVATION

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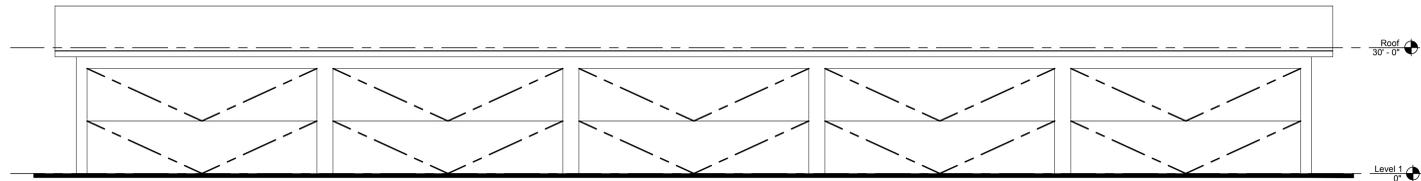
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4 SOUTH ELEVATION

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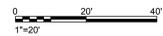
SCALE: 1" = 20'-0"



2 NORTH ELEVATION

A-TT-301 REF: A103

SCALE: 1" = 20'-0"



Revisions	Sym.	Date	By

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AECOM
 200 FOWLER STREET, SUITE 1000
 ORANGE, CALIFORNIA 92668
 T: 714.587.2400
 F: 714.587.2728
 www.aecom.com

SEAL

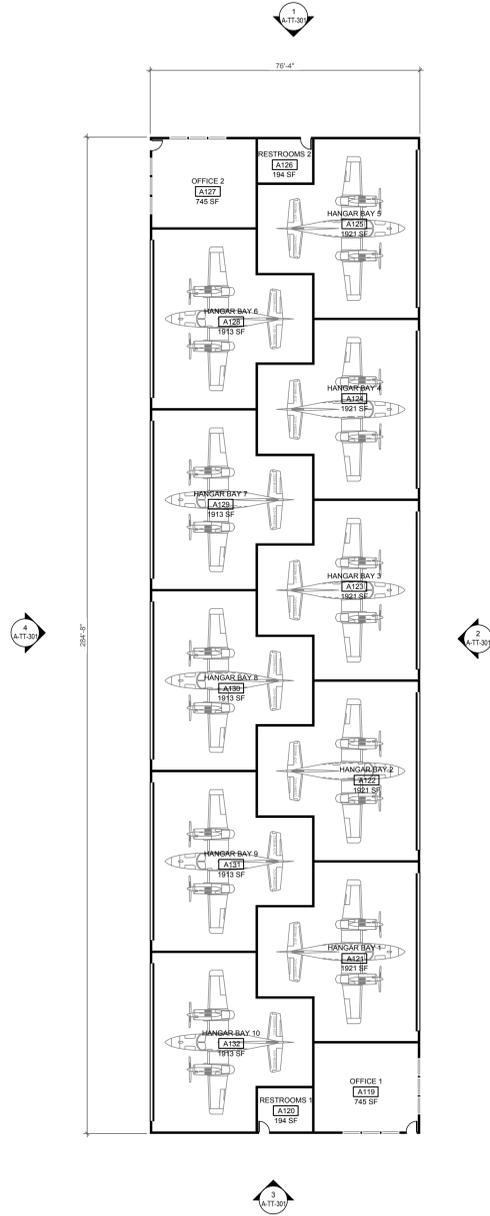
SEAL

A-E

Sht Title: BOX HANGAR TWIN ENGINE - EXTERIOR ELEVATIONS
 Project: GA IMPROVEMENT PROGRAM EAST SIDE DEVELOPMENT - PROPOSED JOHN WAYNE AIRPORT ORANGE COUNTY, CALIFORNIA
 Proj. No. P xxx Date: DEC. 14, 2017

Approvals
 Project Manager
 Section Manager
 12/14/17
 Date
 Plan No.
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1 FIRST FLOOR PLAN

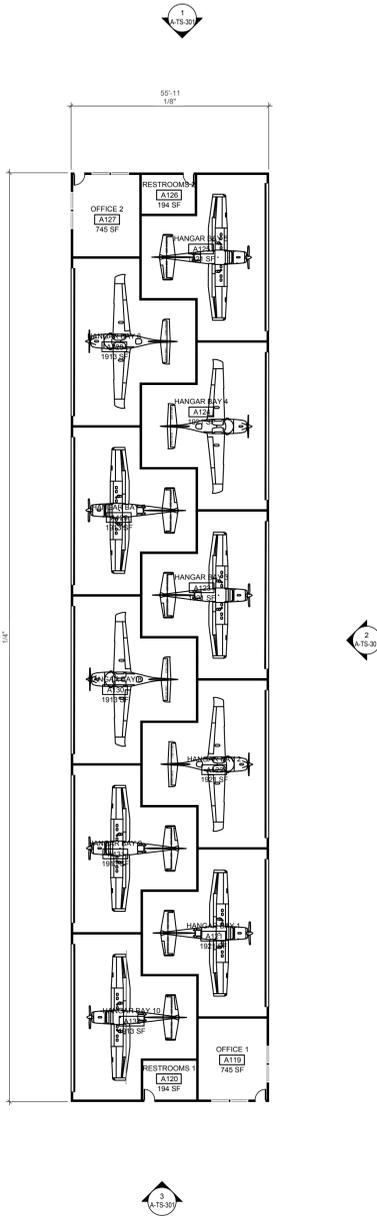
A-TT-101 REF: A-TT-301

SCALE: 1" = 20'-0"

PROJECT SQUARE FOOTAGE	
NAME	AREA
HANGAR BAY 1	1976 SF
HANGAR BAY 2	1976 SF
HANGAR BAY 3	1976 SF
HANGAR BAY 4	1976 SF
HANGAR BAY 5	1976 SF
HANGAR BAY 6	1968 SF
HANGAR BAY 7	1968 SF
HANGAR BAY 8	1968 SF
HANGAR BAY 9	1968 SF
HANGAR BAY 10	1968 SF
OFFICE 1	745 SF
OFFICE 2	745 SF
RESTROOMS 1	194 SF
RESTROOMS 2	194 SF
Grand total:	17 21598 SF

County of Orange		JWA	
Sht Title T-HANGAR TWIN ENGINE - FIRST FLOOR PLAN	Project GA IMPROVEMENT PROGRAM EAST SIDE DEVELOPMENT - PROPOSED JOHN WAYNE AIRPORT ORANGE COUNTY, CALIFORNIA	A-E	A-E
Project Manager	Section Manager	Date 12/14/17	Date xxx
Approvals		Project No. P xxx	Date DEC. 14, 2017
Sheet		Consultant AECOM 255 FOWLER BLVD., SUITE 100 ORANGE, CALIFORNIA 92668 T: 714.957.2400 F: 714.957.2728 www.aecom.com	Date Date
A-TT-100		SEAL	SEAL
152 of 155		Chkd.	Chkd.
15% DESIGN SUBMITTAL		Revisions	By

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1 FIRST FLOOR PLAN - T-HANGAR

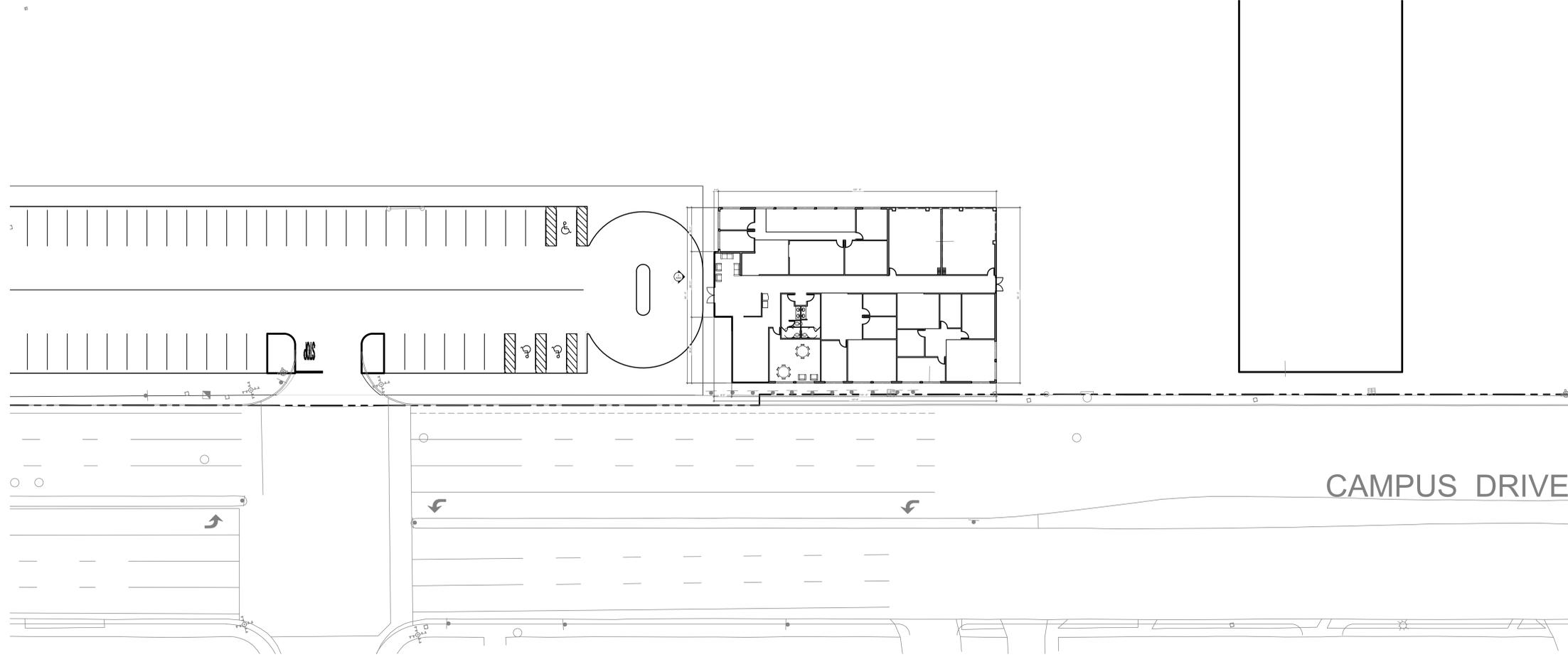
A-TT-101 REF: A-TT-301

SCALE: 1" = 20'-0"

PROJECT SQUARE FOOTAGE	
NAME	AREA
HANGAR BAY 1	1976 SF
HANGAR BAY 2	1976 SF
HANGAR BAY 3	1976 SF
HANGAR BAY 4	1976 SF
HANGAR BAY 5	1976 SF
HANGAR BAY 6	1968 SF
HANGAR BAY 7	1968 SF
HANGAR BAY 8	1968 SF
HANGAR BAY 9	1968 SF
HANGAR BAY 10	1968 SF
OFFICE 1	745 SF
OFFICE 2	745 SF
RESTROOMS 1	194 SF
RESTROOMS 2	194 SF
Grand total:	17 21598 SF

 County of Orange																												
Sht Title T-HANGAR SINGLE ENGINE - FIRST FLOOR PLAN	Project GA IMPROVEMENT PROGRAM EAST SIDE DEVELOPMENT - PROPOSED JOHN WAYNE AIRPORT ORANGE COUNTY, CALIFORNIA	A-E SEAL Consultant 900 FOWLER COUNTY ROAD ORANGE, CALIFORNIA 92668 T: 714.897.2400 F: 714.897.2728 www.aecom.com	Revisions <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Sym.</th> <th>Descr.</th> <th>Date</th> <th>By</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	Sym.	Descr.	Date	By																					Date Chkd. Drawn Date Chkd. Drawn Date Chkd. Drawn
Sym.	Descr.	Date	By																									
Approvals Project Manager Section Manager		Date 12/14/17 Plan No. xxx Sheet A-TS-101		Date: DEC. 14, 2017 P xxx Date: DEC. 14, 2017																								
131 of 155		15% DESIGN SUBMITTAL																										

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1 OVERALL PLAN

A-FBO-100 REF: A-FBO-301

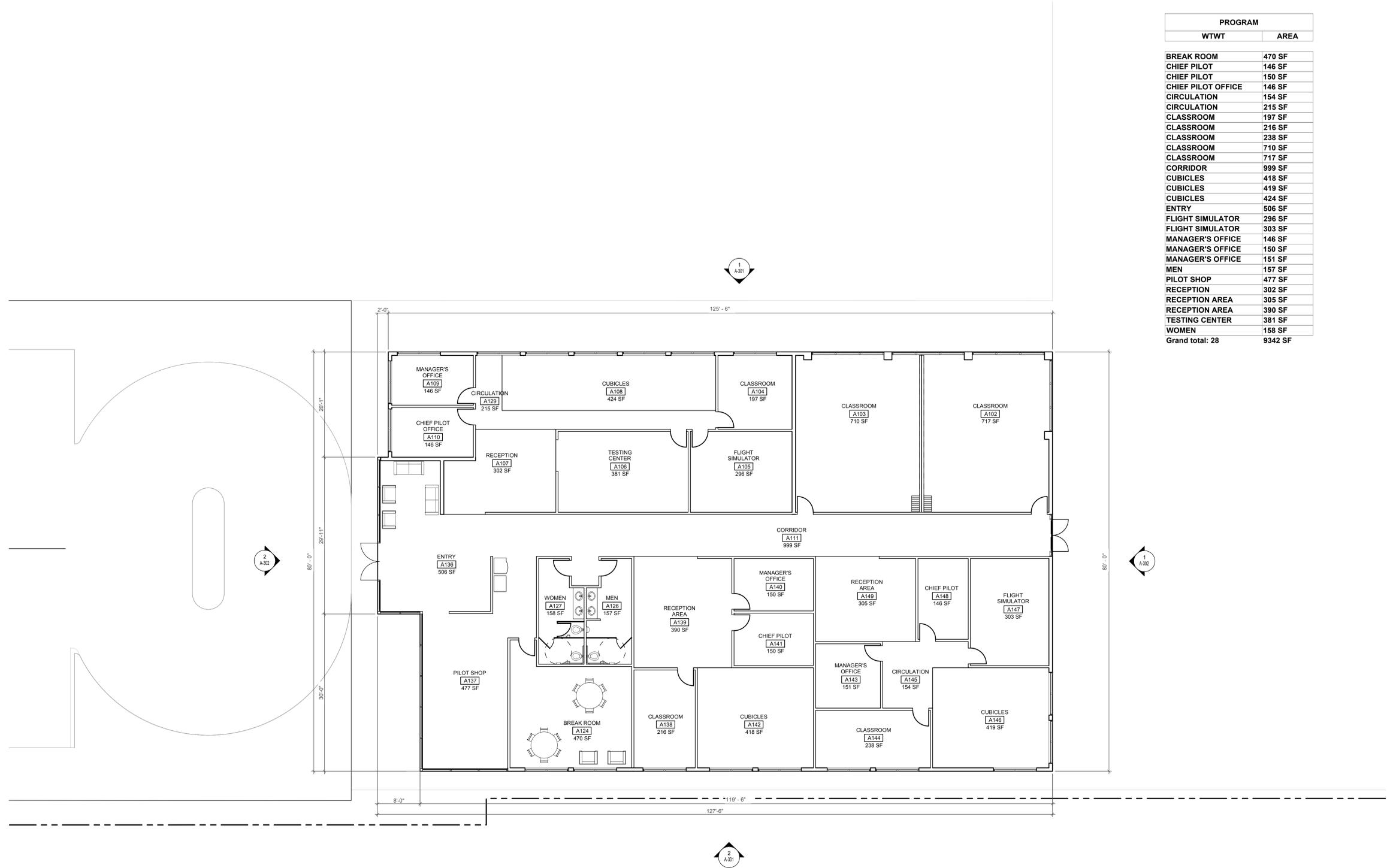
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Sht Title FLIGHT SCHOOL - OVERALL PLAN		A-E		SEAL		SEAL		SEAL		SEAL		Revisions		County of Orange	
Project GA IMPROVEMENT PROGRAM EAST SIDE DEVELOPMENT - PROPOSED JOHN WAYNE AIRPORT ORANGE COUNTY, CALIFORNIA		Date: DEC. 14, 2017		Date		Date		Date		Date		Sym.		Date	
Project Manager		Section Manager		AECOM		AECOM		AECOM		AECOM		AECOM		AECOM	
12/14/17		xxx		xxx		xxx		xxx		xxx		xxx		xxx	
Date		Plan No.		Sheet		A-100		148 of 155		Chkd.		Date		By	

15% DESIGN SUBMITTAL

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1 FIRST FLOOR PLAN

A-FBO-100 REF: A-FBO-301

SCALE: 1/8"=1'-0"

PROGRAM	
WTWT	AREA
BREAK ROOM	470 SF
CHIEF PILOT	146 SF
CHIEF PILOT	150 SF
CHIEF PILOT OFFICE	146 SF
CIRCULATION	154 SF
CIRCULATION	215 SF
CLASSROOM	197 SF
CLASSROOM	216 SF
CLASSROOM	238 SF
CLASSROOM	710 SF
CLASSROOM	717 SF
CORRIDOR	999 SF
CUBICLES	418 SF
CUBICLES	419 SF
CUBICLES	424 SF
ENTRY	506 SF
FLIGHT SIMULATOR	296 SF
FLIGHT SIMULATOR	303 SF
MANAGER'S OFFICE	146 SF
MANAGER'S OFFICE	150 SF
MANAGER'S OFFICE	151 SF
MEN	157 SF
PILOT SHOP	477 SF
RECEPTION	302 SF
RECEPTION AREA	305 SF
RECEPTION AREA	390 SF
TESTING CENTER	381 SF
WOMEN	158 SF
Grand total: 28	9342 SF



Revisions	SEAL	Consultant	SEAL	A-E
		AECOM		
		390 FOWLER COUNTY ROAD ORANGE, CALIFORNIA 92668 T: 714.987.2400 F: 714.987.2728 www.aecom.com		

Sht Title	FLIGHT SCHOOL - FIRST FLOOR PLAN
Project	GA IMPROVEMENT PROGRAM EAST SIDE DEVELOPMENT - PROPOSED JOHN WAYNE AIRPORT ORANGE COUNTY, CALIFORNIA
Proj. No.	P xxx
Date:	DEC. 14, 2017
Drawn	
Chkd.	

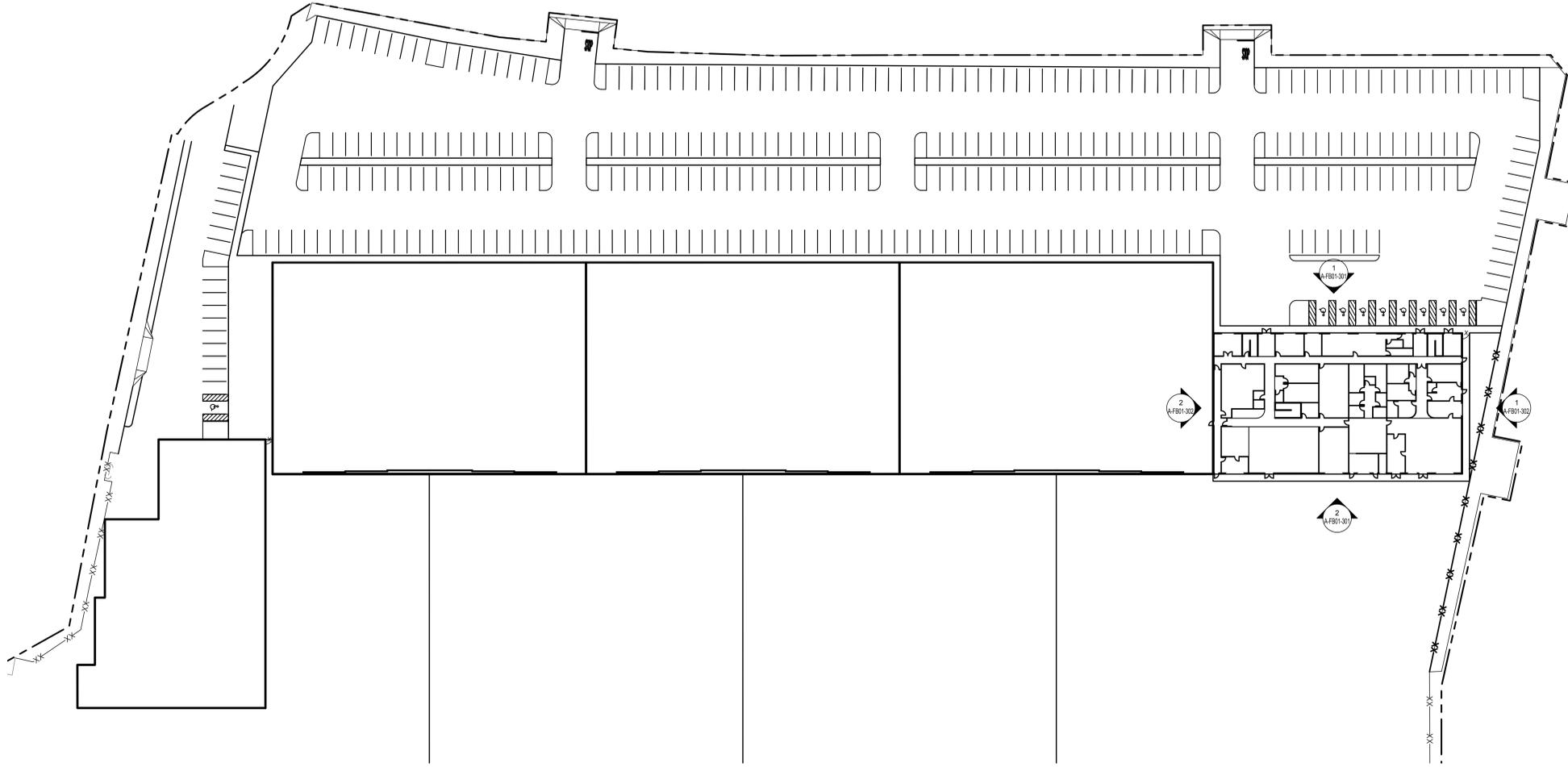
Approvals	
Project Manager	
Section Manager	
Date	12/14/17
Plan No.	xxx
Sheet	A-101
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4.2 Alternative 1

The following architectural plans provide preliminary floor plan design drawings for each building associated with Alternative 1.

Facility	Overall Plan	First Floor Plan	Second Floor Plan	Exterior Elevations
Full Service Northwest FBO	X	X	X	X
Full Service Northeast FBO	X	X	X	X
Full Service Southeast FBO	X	X	X	X
Limited Service Southwest FBO	X	X	X	X
OCSD Air Support Facility	X	X	X	X
T-Hangars (Multi-Engine)		X		X
T-Hangars (Single Engine)		X		X
Flight School	X	X		X

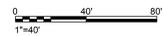
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1 OVERALL PLAN

A-FB0-100 REF: A-FB0-301

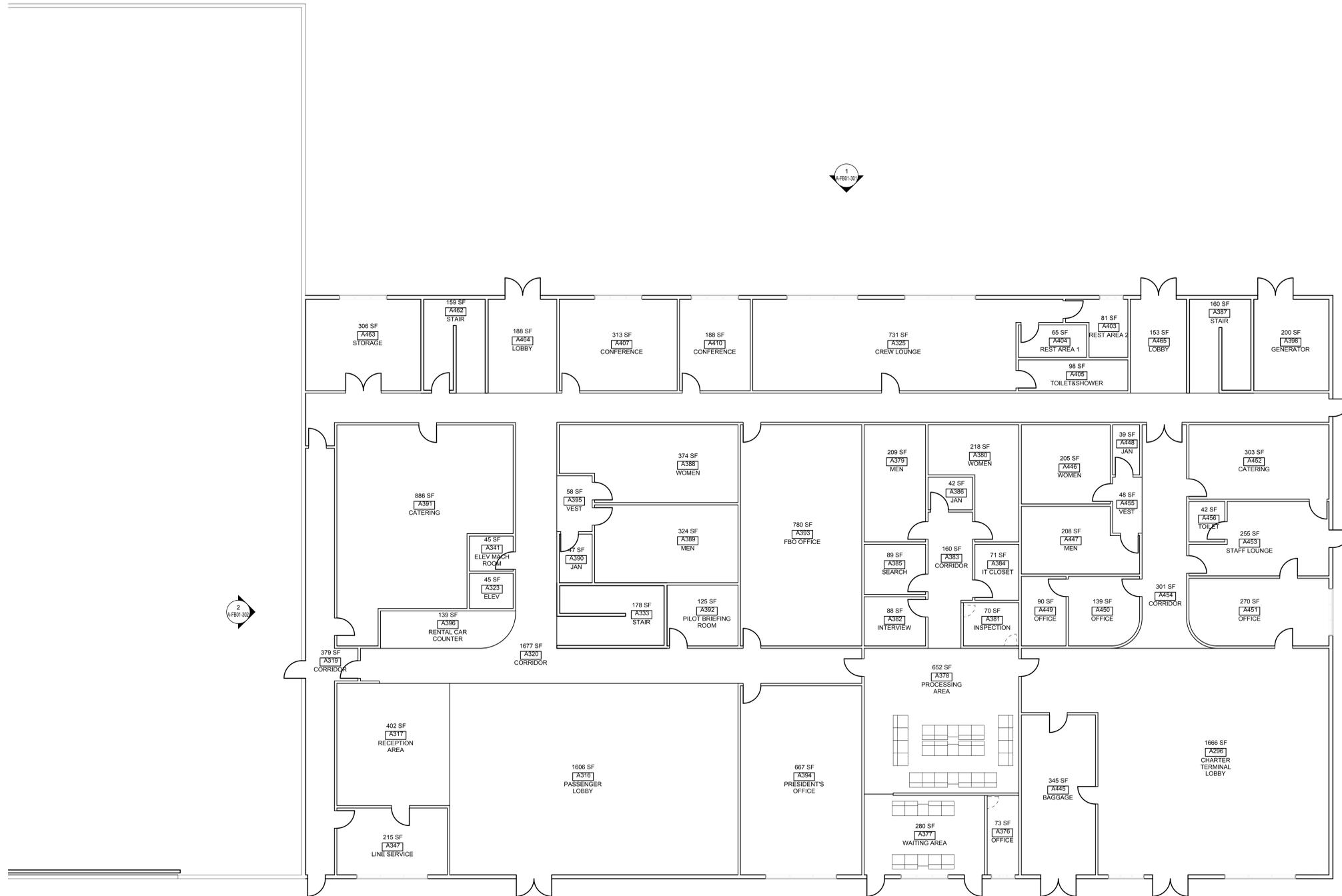
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PROGRAMS-HANGAR	
Name	Area
HANGAR 1	33000 SF
HANGAR 2	33000 SF
HANGAR 3	33000 SF
Grand total:	99000 SF

County of Orange		JWA	
Sht Title	FBO1 - OVERALL PLAN	SEAL	SEAL
Project	GA IMPROVEMENT PROGRAM WEST SIDE DEVELOPMENT - ALTERNATIVE 1 JOHN WAYNE AIRPORT ORANGE COUNTY, CALIFORNIA	Consultant	AECOM 600 FOWLER SQUARE, SUITE 1000 ORANGE, CALIFORNIA 92668 T: 714.957.2400 F: 714.957.2728 www.aecom.com
Proj. No.	P xxx	Date	DEC. 14, 2017
Approvals Project Manager _____ Section Manager _____		Date	Date
12/14/17 Date xxx Plan No. xxx Sheet A-FB01-100		Date	Date
128 of 141		Chkd.	Chkd.
15% DESIGN SUBMITTAL		Revisions	Revisions

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1 OVERALL PLAN

A-FB01-101 REF: A-FB01-301

SCALE: 1/8"=1'-0"

PROGRAMS-FBO	
Name	Area
BALCONY&SEAT	288 SF
CATERING	1007 SF
CONFERENCE	300 SF
CONFERENCE	180 SF
CONFERENCE	218 SF
CONFERENCE	259 SF
CORRIDOR	1576 SF
CORRIDOR	2215 SF
CORRIDOR	551 SF
CREW LOUNGE	793 SF
ELECTRICAL ROOM	121 SF
ELEV.	45 SF
ELEV.	45 SF
ELEV. MACH. ROOM	43 SF
EXEC. SECR.	241 SF
FBO ADMIN. OFFICE	643 SF
JAN	25 SF
JAN	26 SF
JAN	35 SF
JAN	35 SF
JAN	35 SF
LINE SERVICE	277 SF
MEN	186 SF
MEN	189 SF
MEN	216 SF
MEN	222 SF
OFFICE	301 SF
OFFICE	301 SF
OFFICE	301 SF
OFFICE	301 SF
OFFICE	301 SF
OFFICE	332 SF
OFFICE	396 SF
OFFICE	402 SF
OFFICE	413 SF
OFFICE	420 SF
OFFICE	496 SF
OFFICE	500 SF
OFFICE	500 SF
OFFICE	501 SF
OFFICE	502 SF
OFFICE	503 SF
OFFICE	567 SF
OFFICE	605 SF
OFFICE	605 SF
OFFICE	605 SF
OFFICE	606 SF
PASSENGER LOBBY	1027 SF
PILOT BRIEFING ROOM	150 SF
PRESIDENT OFFICE	424 SF
RECEPTION AREA	383 SF
RENTAL CAR COUNTER	101 SF
REST AREA 1	77 SF
REST AREA 2	77 SF
RESTAURANT	1210 SF
STAIR	95 SF
STAIR	138 SF
STAIR	149 SF
STAIR	158 SF
STAIR	158 SF
STAIR	163 SF
STORAGE	26 SF
STORAGE	34 SF
STORAGE	35 SF
STORAGE	37 SF
STORAGE	51 SF
STORAGE	71 SF
STORAGE	83 SF
STORAGE	86 SF
STORAGE	375 SF
TELEPHONE	25 SF
TELEPHONE AREA	80 SF
TOILET&SHOWER	107 SF
VALLET LOBBY	381 SF
VEST.	30 SF
VEST.	30 SF
VEST.	53 SF
VEST.	62 SF
VEST.	63 SF
VIP LOUNGE	1206 SF
WOMEN	208 SF
WOMEN	209 SF
WOMEN	222 SF
WOMEN	240 SF
WOMEN RESTROOM # 1	Not Placed
WOMEN RESTROOM # 1	Not Placed
Grand total: 87,	27558 SF
(1st & 2nd FLOORS)	



County of Orange

JWA

A-E

Sht Title FBO1 - FIRST FLOOR PLAN

Project GA IMPROVEMENT PROGRAM WEST SIDE DEVELOPMENT - ALTERNATIVE 1 JOHN WAYNE AIRPORT ORANGE COUNTY, CALIFORNIA

Proj. No. P xxx Date: DEC. 14, 2017

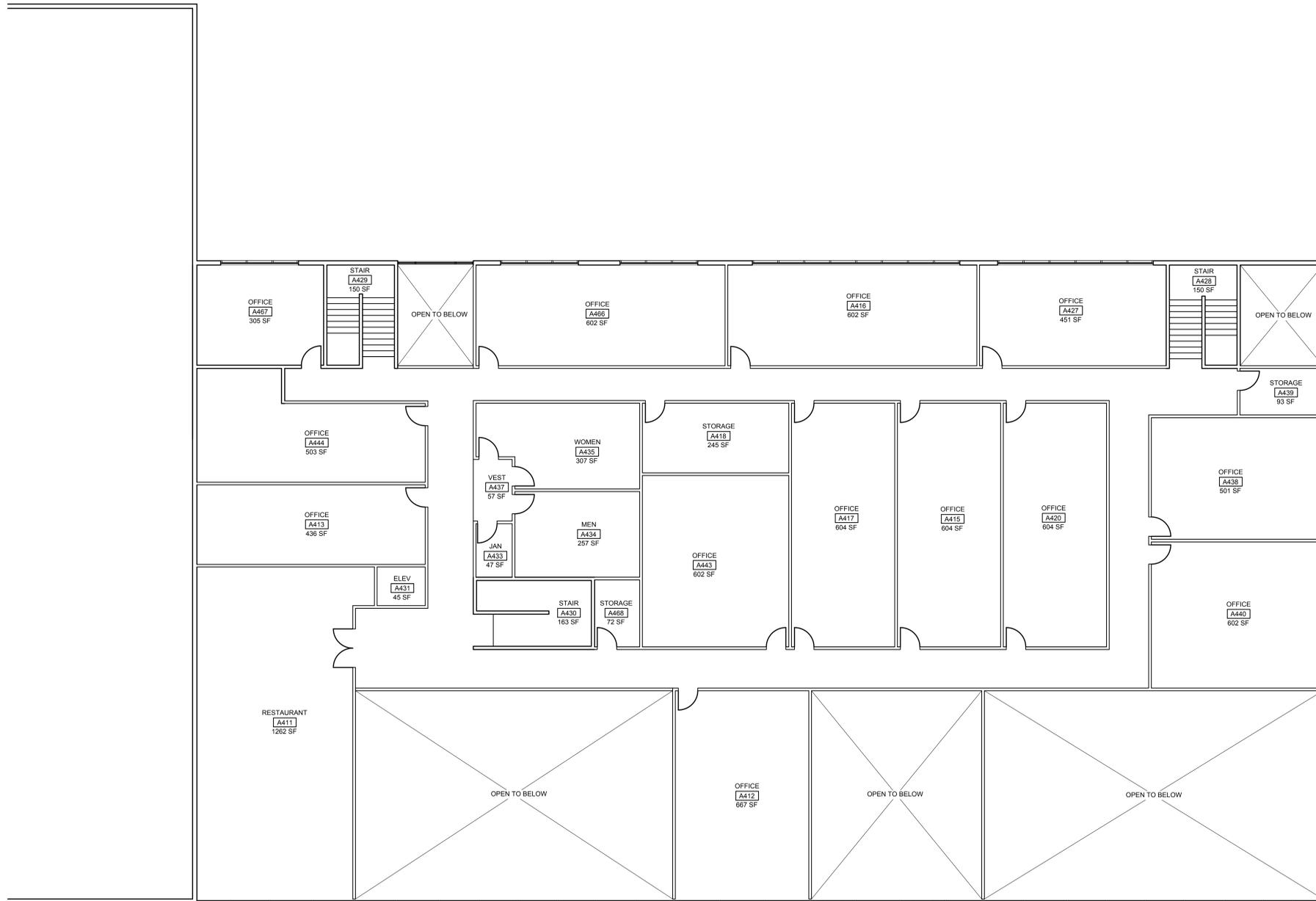
Revisions	SEAL	Consultant	SEAL	SEAL	SEAL

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 950 FOWLER COUNTY ROAD
 ORANGE, CALIFORNIA 92668
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 F: 714.957.2728
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Approvals
 Project Manager _____
 Section Manager _____
 Date 12/14/17
 Plan No. xxx
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1 SECOND FLOOR PLAN

A-FB01-102 REF: A-FB01-301

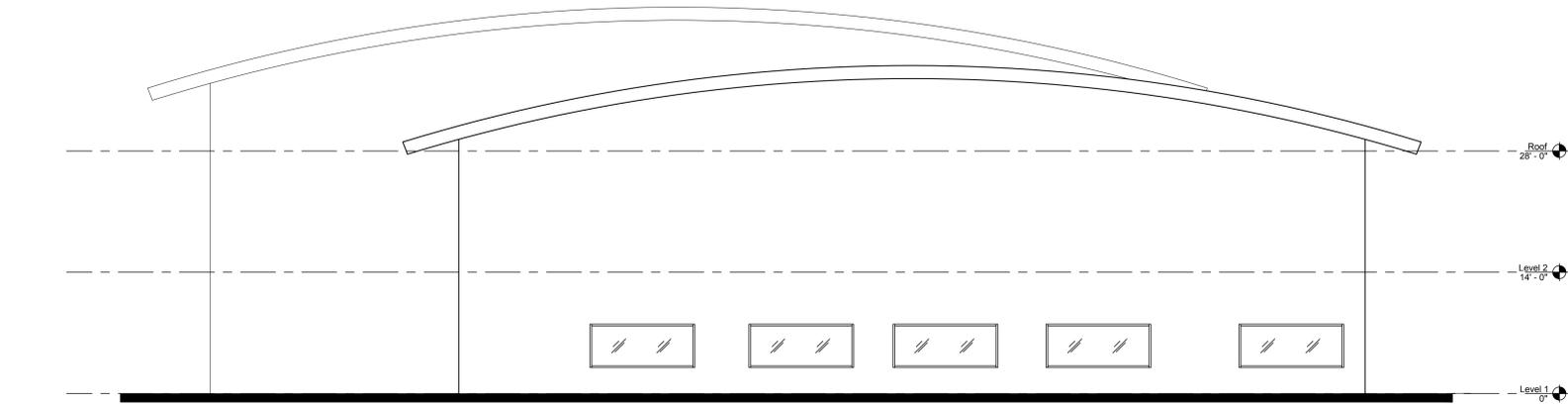
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Proj. No.	P xxx	Date:	DEC. 14, 2017
Approvals			
Project Manager			
Section Manager			
Date		12/14/17	
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				AECOM 600 FOWLER COLLETT BLVD ORANGE, CALIFORNIA 92668 T: 714.957.2400 F: 714.957.2728 www.aecom.com					
Date		Date		Chkd.		Date		By	

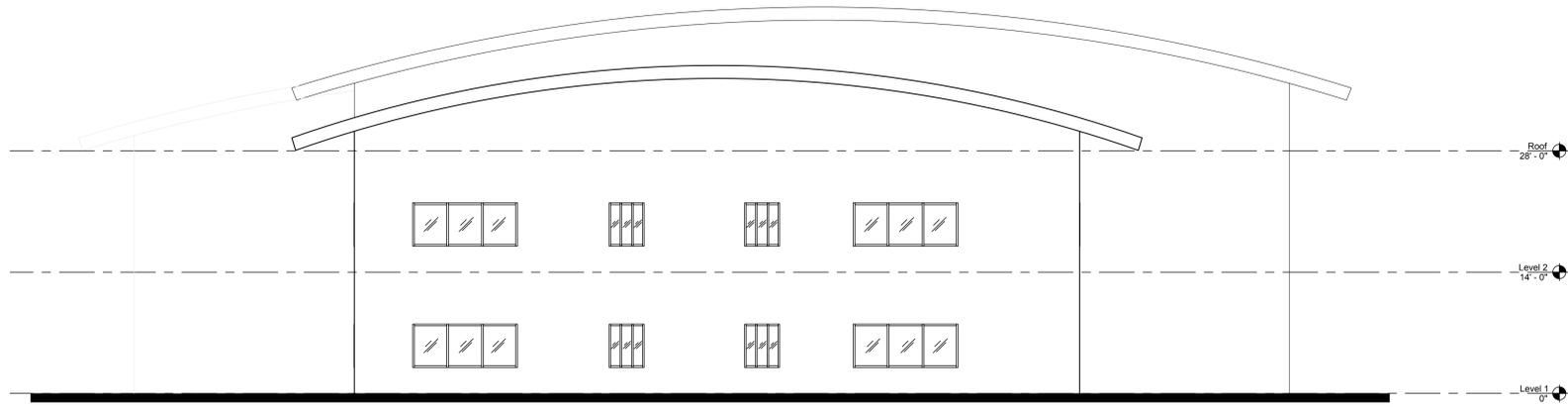
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2 WEST ELEVATION

A-FB01(175)-301 REF: A103

SCALE: 1/8" = 1'-0"



1 EAST ELEVATION

A-FB01(175)-301 REF: A103

SCALE: 1/8" = 1'-0"



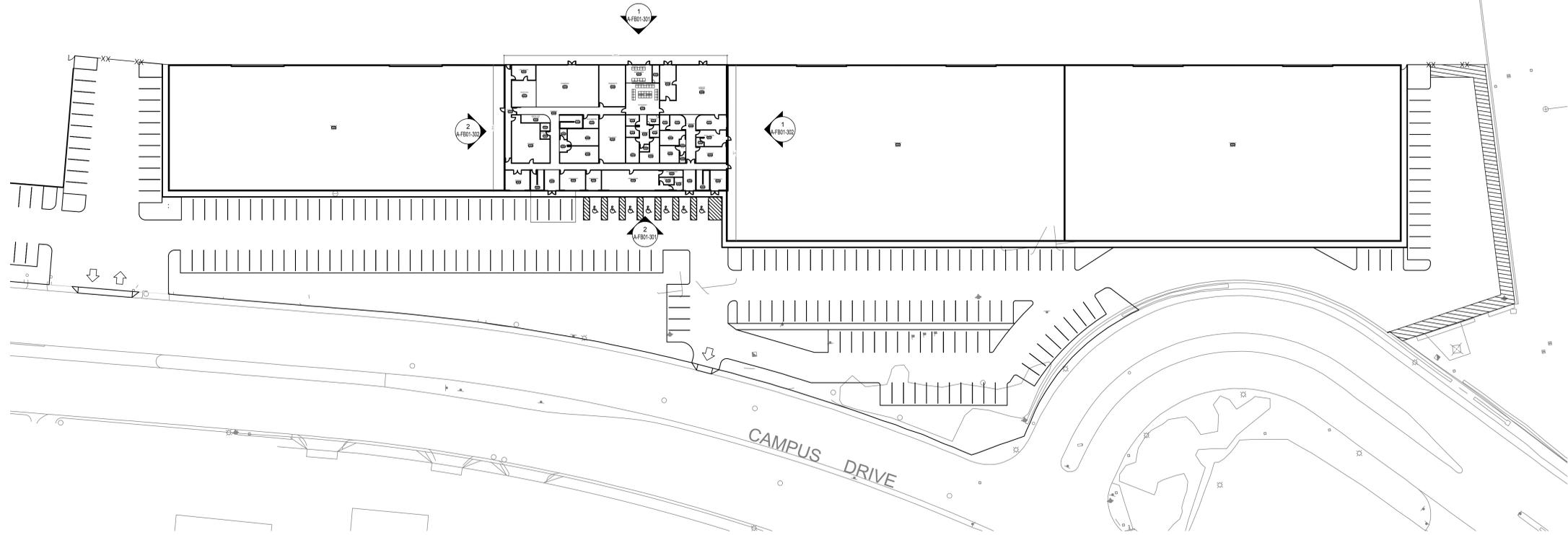
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Proj. No.	P xxx	Date:	DEC. 14, 2017
A-E		Chkd.	Drawn
SEAL	SEAL	Chkd.	Chkd.
Consultant	SEAL	Date	Date
AECOM		www.aecom.com	
385 FOWLER BLVD, SUITE 1000 ORANGE, CALIFORNIA 92668 T: 714.897.2400 F: 714.897.2728		Date	Date
County of Orange		Revisions	By

Approvals	
Project Manager	
Section Manager	
Date	12/14/17
Plan No.	xxx
Sheet	A-FB01-302
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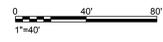
PROGRAMS-HANGAR	
Name	Area
HANGAR 2	36960 SF
HANGAR 3	36960 SF
HANGAR 4	26400 SF
Grand total:	100320 SF



1 OVERALL PLAN

A-FB0-100 REF: A-FB0-301

SCALE: 1"=40'-0"



County of Orange
JWA

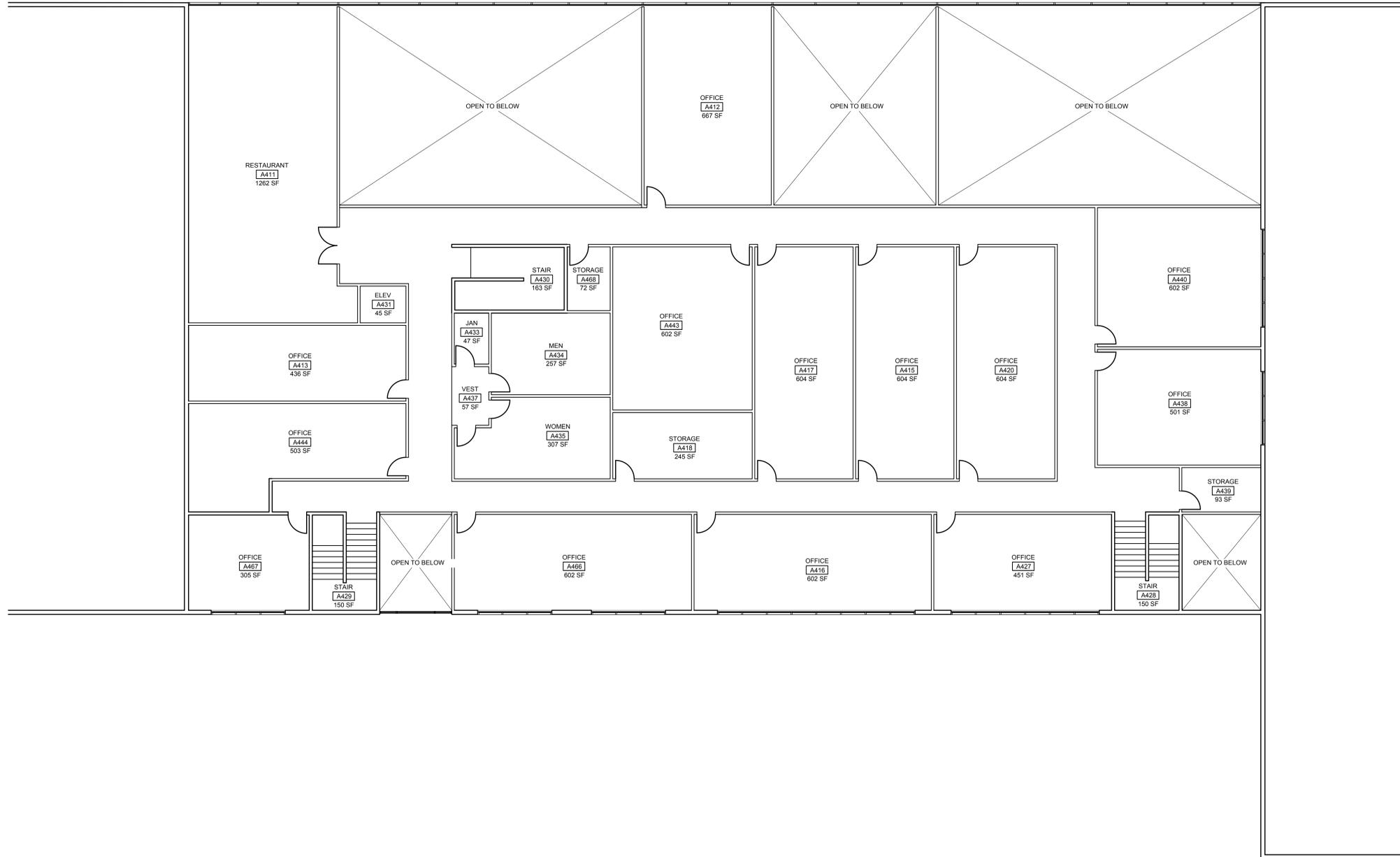
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Sht Title: FB02 - OVERALL PLAN
 Project: GA IMPROVEMENT PROGRAM
 EAST SIDE DEVELOPMENT - ALTERNATIVE 1
 JOHN WAYNE AIRPORT
 ORANGE COUNTY, CALIFORNIA
 Date: DEC. 14, 2017
 P xxx

Approvals
 Project Manager
 Section Manager
 Date: 12/14/17
 Plan No. xxx
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1 SECOND FLOOR PLAN

A-FB01-102 REF: A-FB01-301

SCALE: 1/8"=1'-0"



Revisions	Sym.	Date	By

SEAL

Consultant
AECOM
 900 FOWLER BLVD., SUITE 1000
 ORANGE, CALIFORNIA 92668
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Chkd. _____ Date _____

Chkd. _____ Date _____

Chkd. _____ Date _____

Sht Title FB02 SECOND FLOOR PLAN

Project GA IMPROVEMENT PROGRAM
 EAST SIDE DEVELOPMENT - ALTERNATIVE 1
 JOHN WAYNE AIRPORT
 ORANGE COUNTY, CALIFORNIA

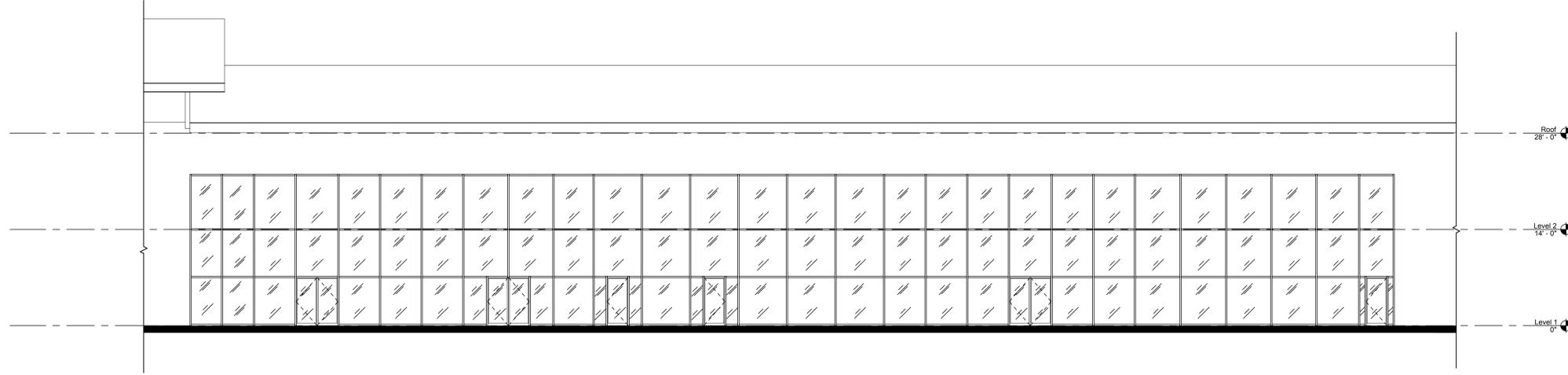
Proj. No. P xxx Date: DEC. 14, 2017

Approvals
 Project Manager _____
 Section Manager _____

12/14/17
 Date
 Plan No.
 xxx

Sheet
 A-FB02-102
 161 of 172

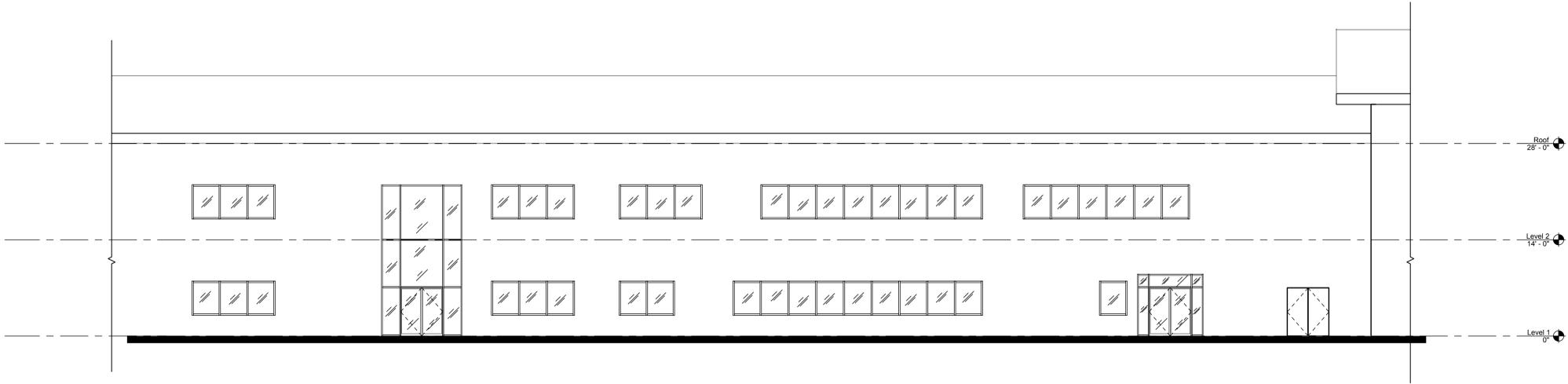
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2 OFFICES WEST ELEVATION

A-FB01-301 REF: A103

SCALE: 1/8" = 1'-0"



1 OFFICES EAST ELEVATION

A-FB01-301 REF: A103

SCALE: 1/8" = 1'-0"



County of Orange

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Revisions	Sym.	Date	By

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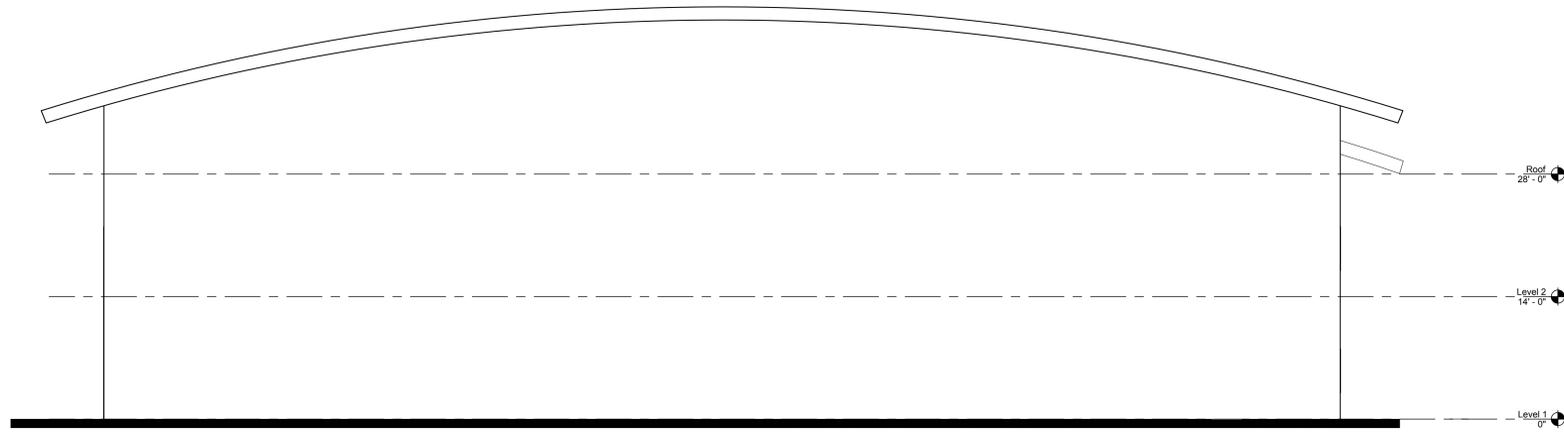
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 Project: GA IMPROVEMENT PROGRAM
 EAST SIDE DEVELOPMENT - ALTERNATIVE 1
 JOHN WAYNE AIRPORT
 ORANGE COUNTY, CALIFORNIA
 Proj. No.: P xxx Date: DEC. 14, 2017
 Drawn: [] Chkd: []

Approvals
 Project Manager
 Section Manager
 Date: 12/14/17
 Plan No.: xxx
 Sheet: A-FB02-301
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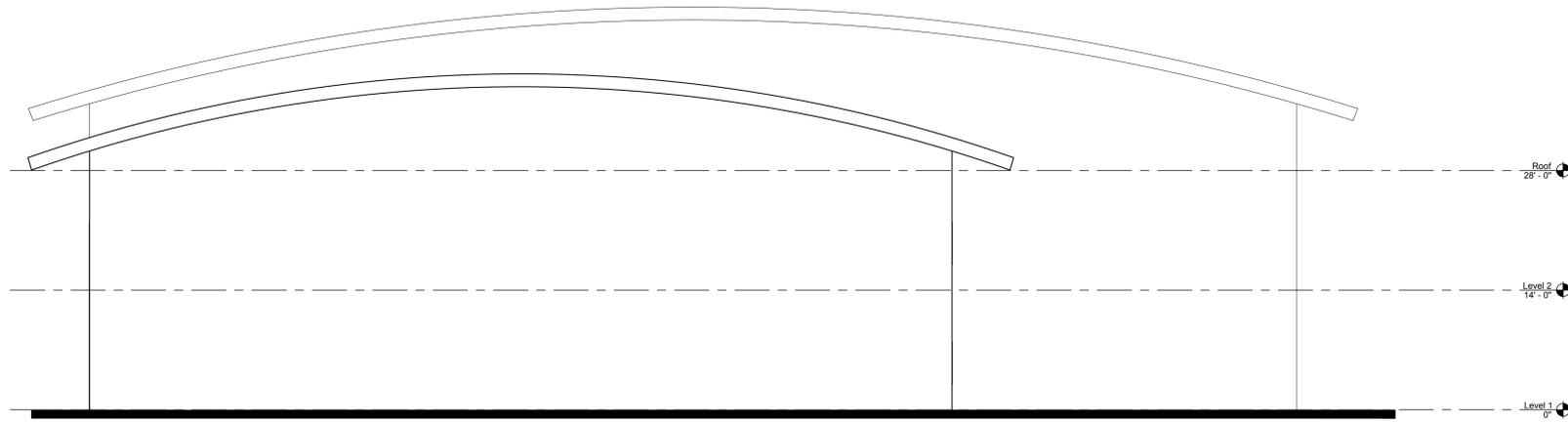
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2 WEST ELEVATION

A-FB0(175)-301 REF: A103

SCALE: 1/8" = 1'-0"



1 EAST ELEVATION

A-FB0(175)-301 REF: A103

SCALE: 1/8" = 1'-0"



Sheet Title: FB02 - EXTERIOR ELEVATIONS 2 OF 2

Project: GA IMPROVEMENT PROGRAM
 EAST SIDE DEVELOPMENT - ALTERNATIVE 1
 JOHN WAYNE AIRPORT
 ORANGE COUNTY, CALIFORNIA

Proj. No. P xxx Date: DEC. 14, 2017

Approvals
 Project Manager
 Section Manager

12/14/17

Date

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xxx

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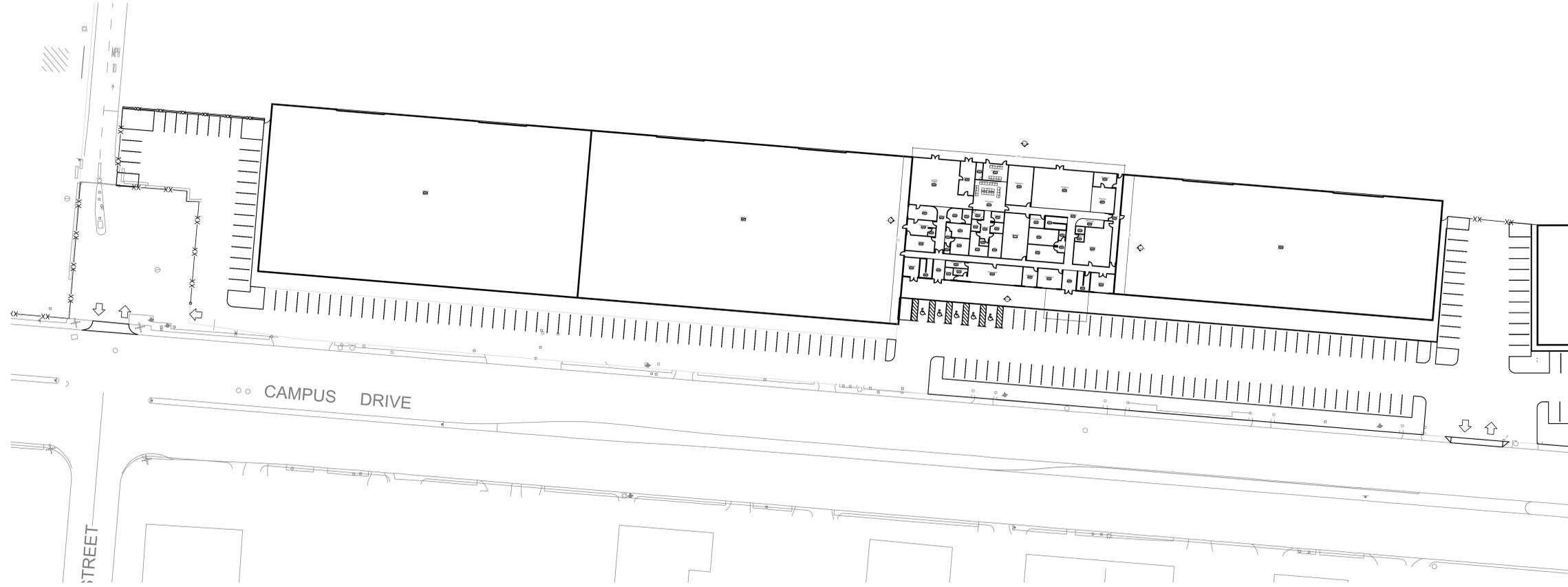
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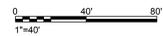


PROGRAMS-HANGAR	
Name	Area
HANGAR 1	26400 SF
HANGAR 2	36960 SF
HANGAR 3	36960 SF
Grand total:	100320 SF

1 OVERALL PLAN

A-FB0-100 REF: A-FB0-301

SCALE: 1"=40'-0"



Sht Title		FB03 - OVERALL PLAN	
Project		GA IMPROVEMENT PROGRAM EAST SIDE DEVELOPMENT - ALTERNATIVE 1 JOHN WAYNE AIRPORT ORANGE COUNTY, CALIFORNIA	
Proj. No.	P xxx	Date:	DEC. 14, 2017
Approvals		Project Manager	
Section Manager		12/14/17	
Date		xxx	
Plan No.		xxx	
Sheet		A-FB03-100	
164 of 172		15% DESIGN SUBMITTAL	

SEAL	SEAL	SEAL	SEAL	Revisions	Date	By

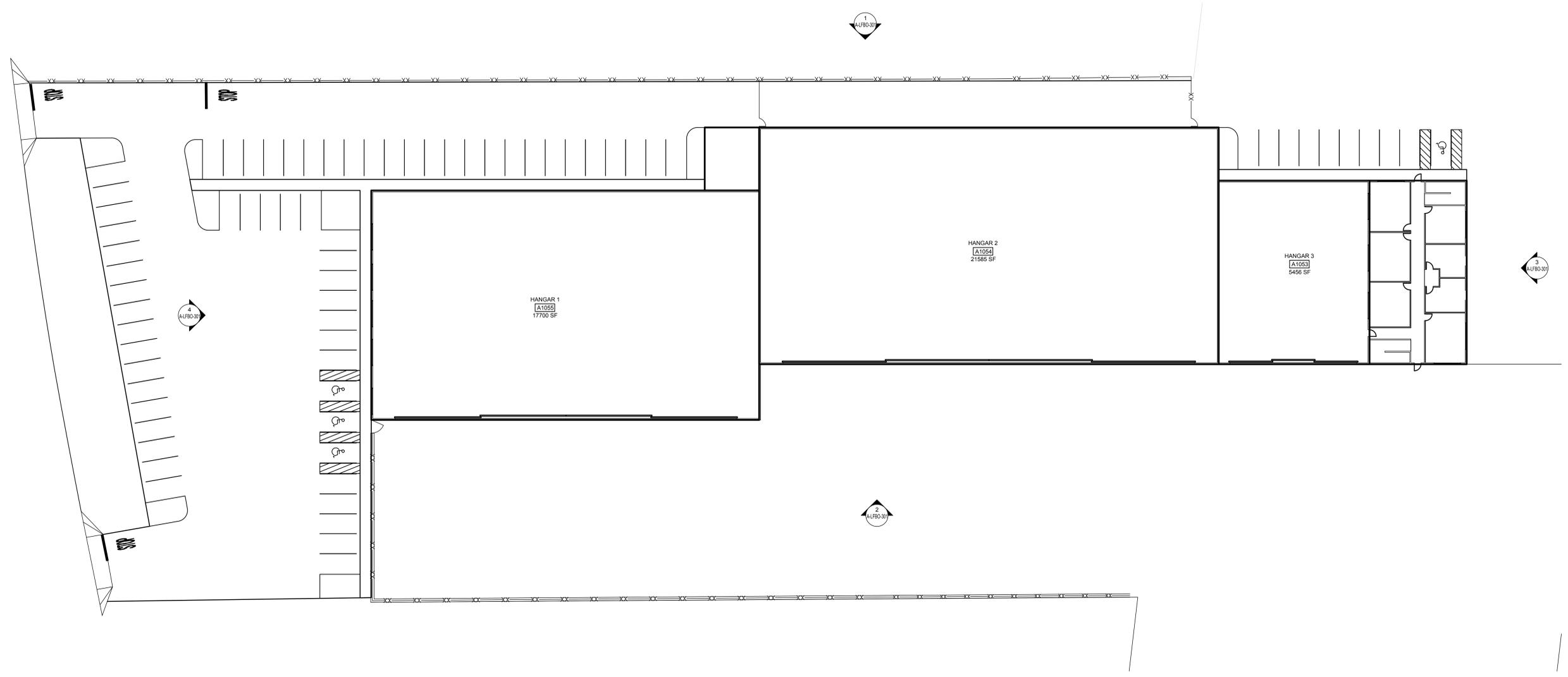
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300 PAVILION COURT, SUITE 1000 ORANGE, CALIFORNIA 92668 T: 714.957.2400 F: 714.957.2728 www.aecom.com	

County of Orange

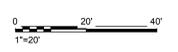
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PROJECT SQUARE FOOTAGE	
ROOM NAME	Area
HANGAR BAY 1	17700 SF
HANGAR BAY 2	21585 SF
HANGAR BAY 3	5456 SF
Grand total: 11	44741 SF



1 OVERALL PLAN
 A-LFBO-100 REF: A-LFBO-301 SCALE: 1"=20'-0"



County of Orange
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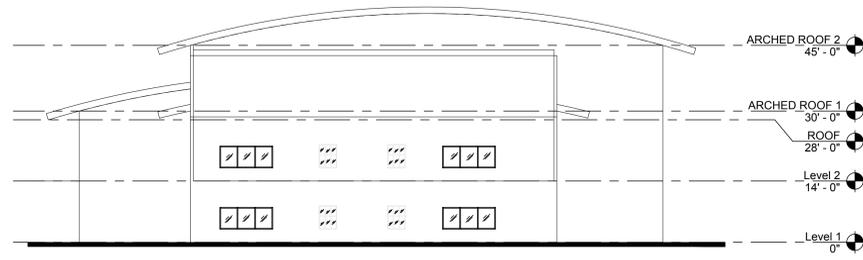
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 ORANGE, CALIFORNIA 92668
 T: 714.957.2400
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 A-E
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 Drawn
 Date
 Chkd.

Sht Title LFBO - OVERALL PLAN
 Project GA IMPROVEMENT PROGRAM
 WEST SIDE DEVELOPMENT - ALTERNATIVE 1
 JOHN WAYNE AIRPORT
 ORANGE COUNTY, CALIFORNIA
 Proj. No. P xxx Date: DEC. 14, 2017
 Drawn
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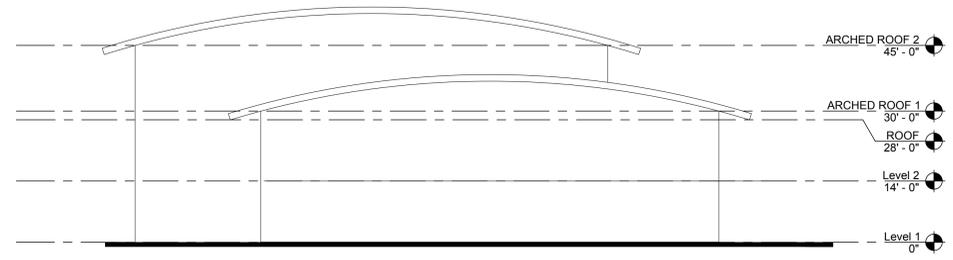
Approvals
 Project Manager
 Section Manager
 Date 12/14/17
 Plan No. xxx
 Sheet A-LFBO-100
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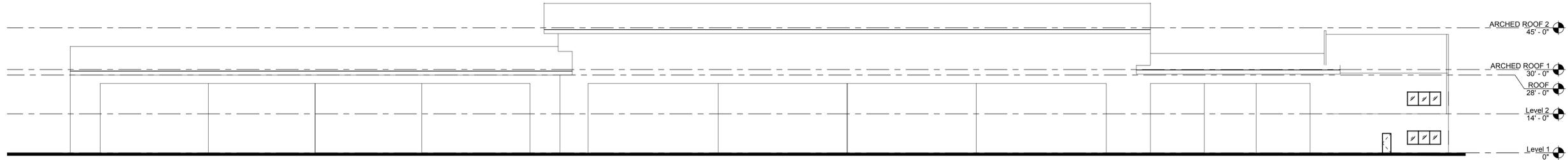
3 WEST ELEVATION

A301 REF: A103 SCALE: 1/16" = 1'-0"



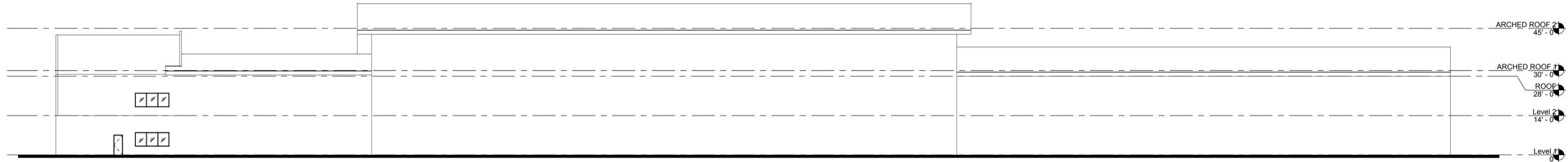
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A301 REF: A103 SCALE: 1/16" = 1'-0"



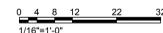
2 NORTH ELEVATION

A301 REF: A103 SCALE: 1/16" = 1'-0"



1 SOUTH ELEVATION

A301 REF: A103 SCALE: 1/16" = 1'-0"



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SEAL	Date	Sym.	Descr.

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ORANGE, CALIFORNIA 92668
T: 714.957.2400
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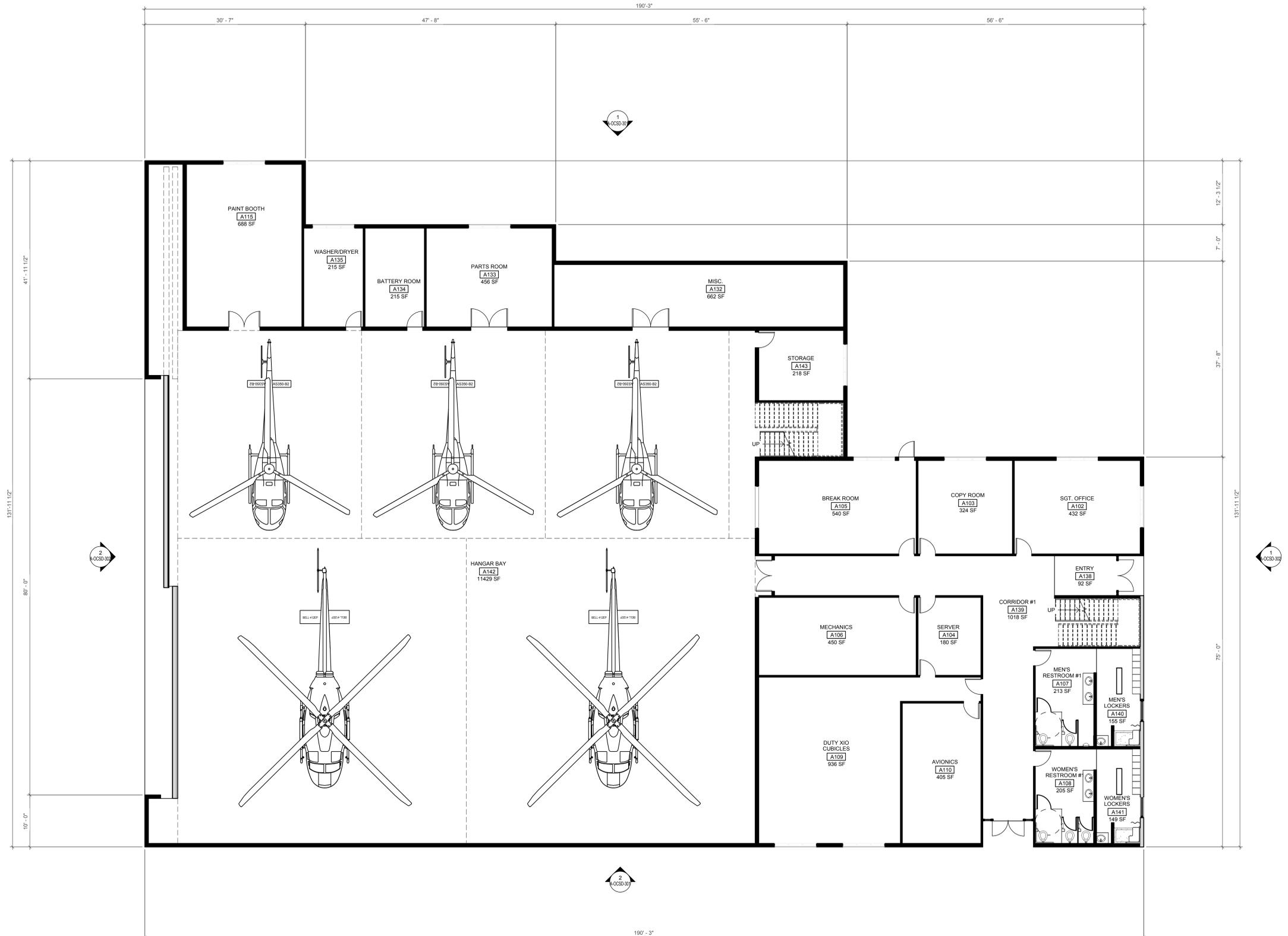
SEAL	Date	Chkd.	Drawn

SEAL	Date	Chkd.	Drawn

Sht Title LFBO - EXTERIOR ELEVATIONS
Project GA IMPROVEMENT PROGRAM
WEST SIDE DEVELOPMENT - ALTERNATIVE 1
JOHN WAYNE AIRPORT
ORANGE COUNTY, CALIFORNIA
P xxx Date: DEC. 14, 2017

Approvals
Project Manager
Section Manager
12/14/17
Date
Plan No.
xxx
Sheet
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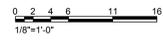
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1 FIRST FLOOR PLAN

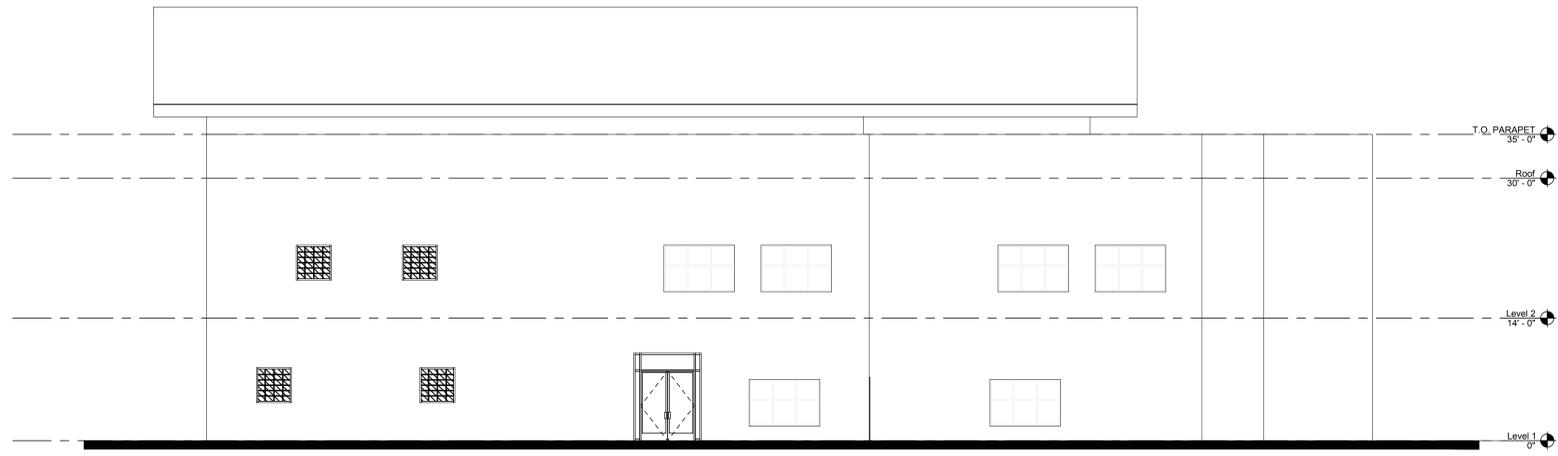
A-OCSD-101 REF: A-OCSD-301

SCALE: 1/8" = 1'-0"



Sht Title		OCSD - FIRST FLOOR PLAN	
Project		GA IMPROVEMENT PROGRAM WEST SIDE DEVELOPMENT - ALTERNATIVE 1 JOHN WAYNE AIRPORT ORANGE COUNTY, CALIFORNIA	
Proj. No.	P xxx	Date:	DEC. 14, 2017
Approvals		Date	
Project Manager		12/14/17	
Section Manager		Plan No.	
		xxx	
Sheet		A-OCSD-101	
134 of 141			
County of Orange		JWA	
Consultant		AECOM	
SEAL		SEAL	
Revisions		Date	
Sym.		Date	
Descr.		Date	
By		Date	

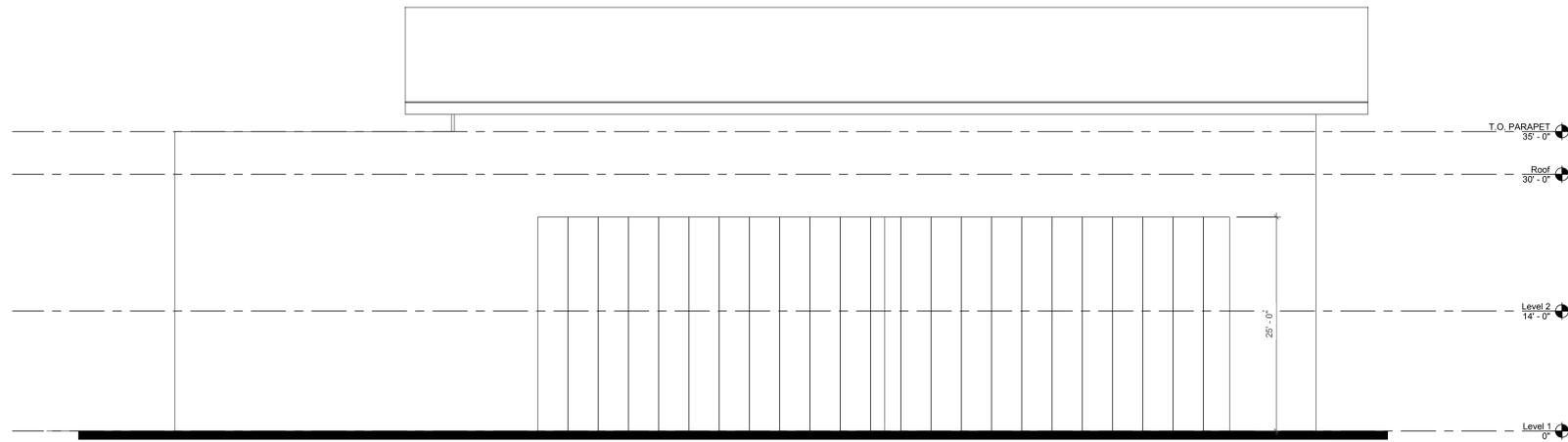
15% DESIGN SUBMITTAL



1 WEST ELEVATION

A-OCSD-302 REF: A201

SCALE: 1/8" = 1'-0"



2 EAST ELEVATION

A-OCSD-302 REF: A201

SCALE: 1/8" = 1'-0"

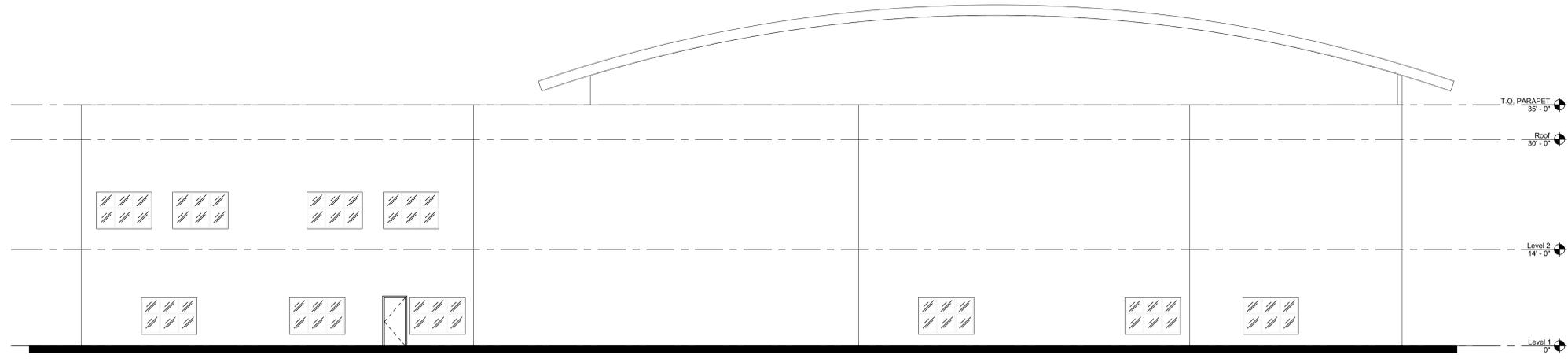


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County of Orange		JWA	
Sht Title	OCSD - EXTERIOR ELEVATIONS	SEAL	SEAL
Project	GA IMPROVEMENT PROGRAM WEST SIDE DEVELOPMENT - ALTERNATIVE 1	Consultant	AECOM
Project No.	P xxx	DATE	DEC. 14, 2017
Section Manager	JOHN WAYNE AIRPORT ORANGE COUNTY, CALIFORNIA	Drawn	Chkd.
Date	12/14/17	Date	Date
Plan No.	xxx	Descr.	By
Sheet	A-OCSD-301		
		136	of 141

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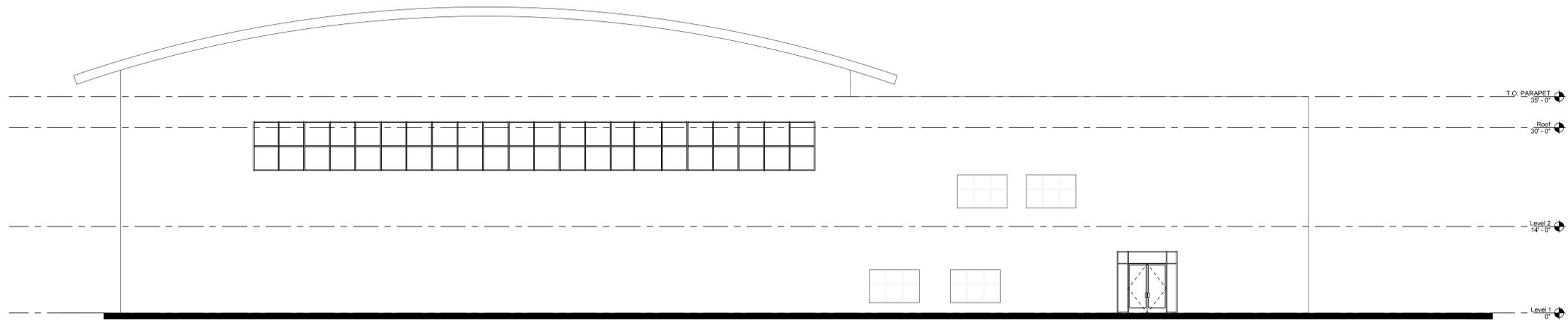
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1 SOUTH ELEVATION

A-OCSD-301 REF: A201

SCALE: 1/8" = 1'-0"



2 NORTH ELEVATION

A-OCSD-301 REF: A201

SCALE: 1/8" = 1'-0"



County of Orange

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SEAL	SEAL	Date	Chkd.

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AECOM
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 ORANGE, CALIFORNIA 92668
 T: 714.897.2400
 F: 714.897.2728
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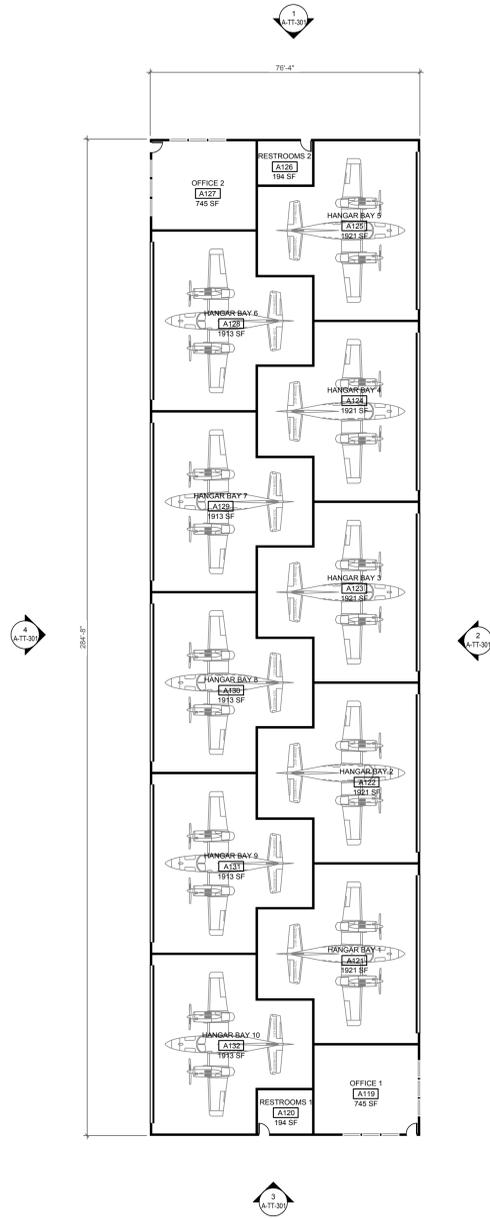
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 Project GA IMPROVEMENT PROGRAM
 WEST SIDE DEVELOPMENT - ALTERNATIVE 1
 JOHN WAYNE AIRPORT
 ORANGE COUNTY, CALIFORNIA
 Proj. No. P xxx Date: DEC. 14, 2017

Approvals
 Project Manager
 Section Manager
 12/14/17
 Date
 Plan No.
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 A-OCSD-302
 137 of 141

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1 FIRST FLOOR PLAN

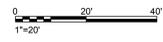
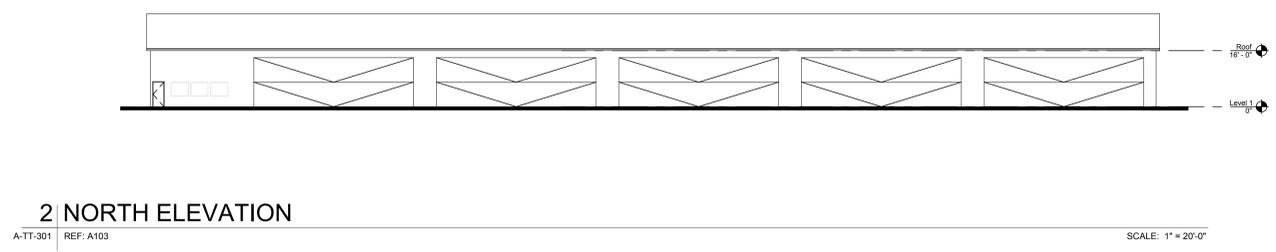
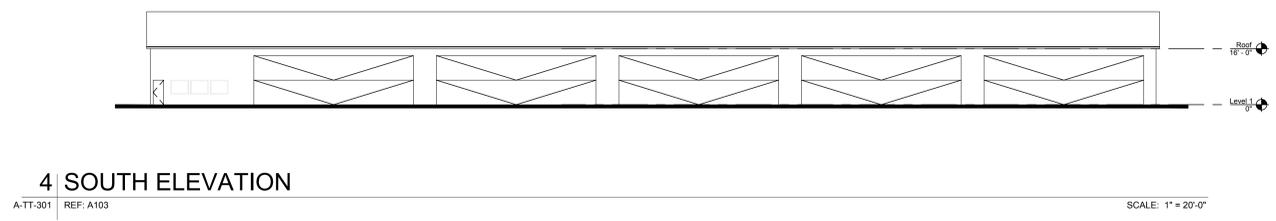
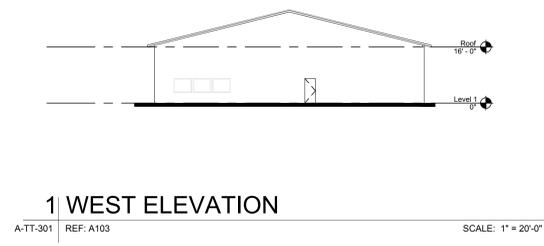
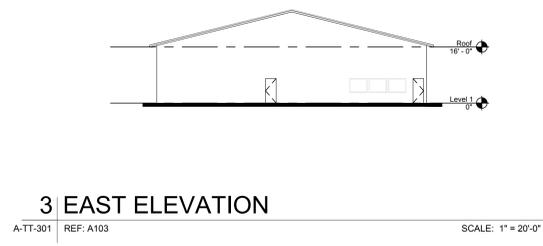
A-TT-101 REF: A-TT-301

SCALE: 1" = 20'-0"

PROJECT SQUARE FOOTAGE	
NAME	AREA
HANGAR BAY 1	1976 SF
HANGAR BAY 2	1976 SF
HANGAR BAY 3	1976 SF
HANGAR BAY 4	1976 SF
HANGAR BAY 5	1976 SF
HANGAR BAY 6	1968 SF
HANGAR BAY 7	1968 SF
HANGAR BAY 8	1968 SF
HANGAR BAY 9	1968 SF
HANGAR BAY 10	1968 SF
OFFICE 1	745 SF
OFFICE 2	745 SF
RESTROOMS 1	194 SF
RESTROOMS 2	194 SF
Grand total:	21598 SF

County of Orange		JWA	
Sht Title T HANGAR TWIN ENGINE - FIRST FLOOR PLAN	Project GA IMPROVEMENT PROGRAM EAST SIDE DEVELOPMENT - ALTERNATIVE 1 JOHN WAYNE AIRPORT ORANGE COUNTY, CALIFORNIA	Project No. P xxx	Date: DEC. 14, 2017
Approvals			
Project Manager		Section Manager	
12/14/17		Date	
xxx		Plan No.	
A-TT-100		Sheet	
171 of 172		15% DESIGN SUBMITTAL	
SEAL	SEAL	SEAL	SEAL
Consultant AECOM 900 FOWLER BLVD ORANGE, CALIFORNIA 92668 T: 714.957.2400 F: 714.957.2728 www.aecom.com	Drawn	Chkd.	By
Revisions	Date	Sym.	Date

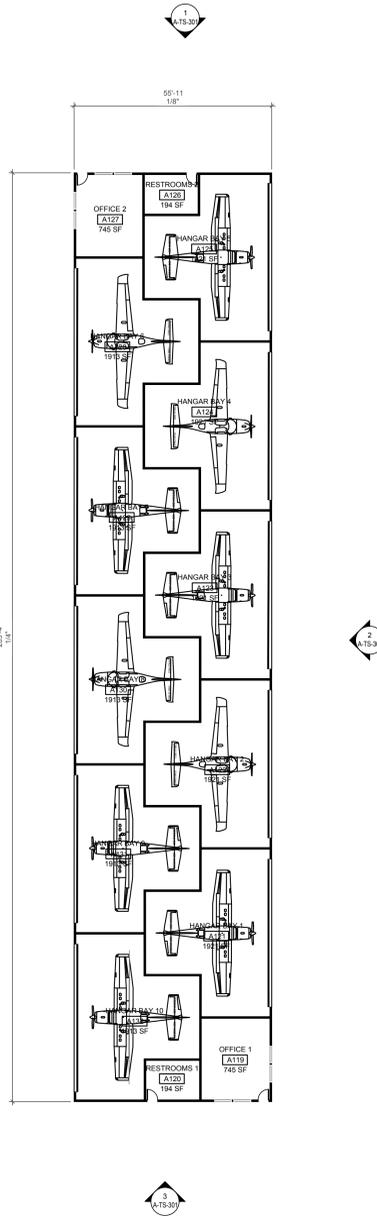
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County of Orange		JWA	
Sht Title	T HANGAR TWIN ENGINE - EXTERIOR ELEVATIONS	SEAL	
Project	GA IMPROVEMENT PROGRAM EAST SIDE DEVELOPMENT - ALTERNATIVE 1 JOHN WAYNE AIRPORT ORANGE COUNTY, CALIFORNIA	Consultant	AECOM 200 FOWLER SQUARE, SUITE 1000 ORANGE, CALIFORNIA 92668 T: 714.957.2400 F: 714.957.2728 www.aecom.com
Proj. No.	P xxx	Date	DEC. 14, 2017
Approvals		SEAL	SEAL
Project Manager		Date	Date
Section Manager		Chkd.	Chkd.
Date		Date	Date
12/14/17		Date	Date
Plan No.		Date	Date
xxx		Date	Date
Sheet		Date	Date
A-TT-301		Date	Date
172 of 172		Date	Date

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1 FIRST FLOOR PLAN - T-HANGAR

A-TT-101 REF: A-TT-301

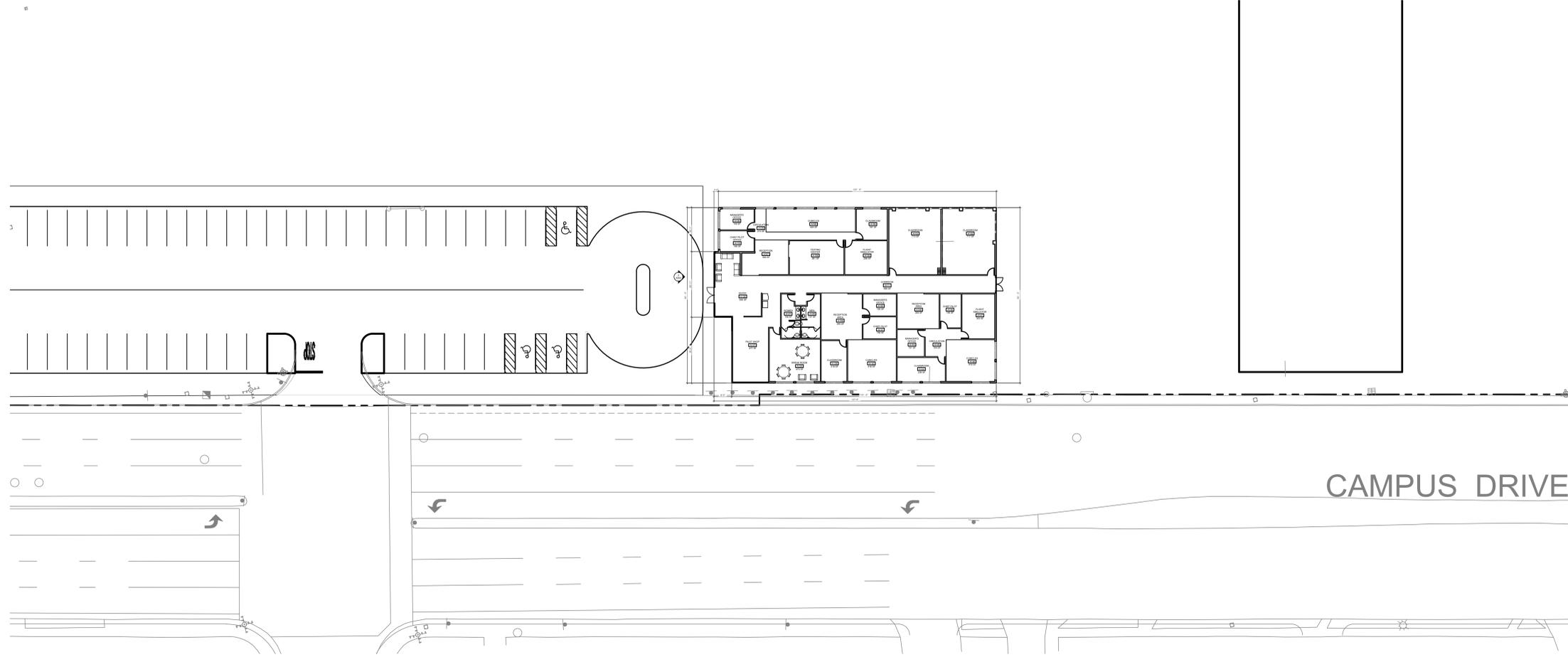
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PROJECT SQUARE FOOTAGE	
NAME	AREA
HANGAR BAY 1	1976 SF
HANGAR BAY 2	1976 SF
HANGAR BAY 3	1976 SF
HANGAR BAY 4	1976 SF
HANGAR BAY 5	1976 SF
HANGAR BAY 6	1968 SF
HANGAR BAY 7	1968 SF
HANGAR BAY 8	1968 SF
HANGAR BAY 9	1968 SF
HANGAR BAY 10	1968 SF
OFFICE 1	745 SF
OFFICE 2	745 SF
RESTROOMS 1	194 SF
RESTROOMS 2	194 SF
Grand total:	17 21598 SF

County of Orange		JWA	
Sht Title	T-HANGAR SINGLE ENGINE - FIRST FLOOR PLAN	SEAL	SEAL
Project	GA IMPROVEMENT PROGRAM EAST SIDE DEVELOPMENT - ALTERNATIVE 1 JOHN WAYNE AIRPORT ORANGE COUNTY, CALIFORNIA	Consultant	AECOM 200 FOWLER SQUARE, SUITE 1000 ORANGE, CALIFORNIA 92668 T: 714.897.2400 F: 714.897.2728 www.aecom.com
Project No.	P xxx	Drawn	Chkd.
Approvals	Date: DEC. 14, 2017	Date	Date
Project Manager		Sym.	Descr.
Section Manager		Date	Date
	12/14/17		
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	Plan No.		
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	A-TS-101		
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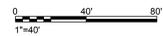
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1 OVERALL PLAN

A-FBO-100 REF: A-FBO-301

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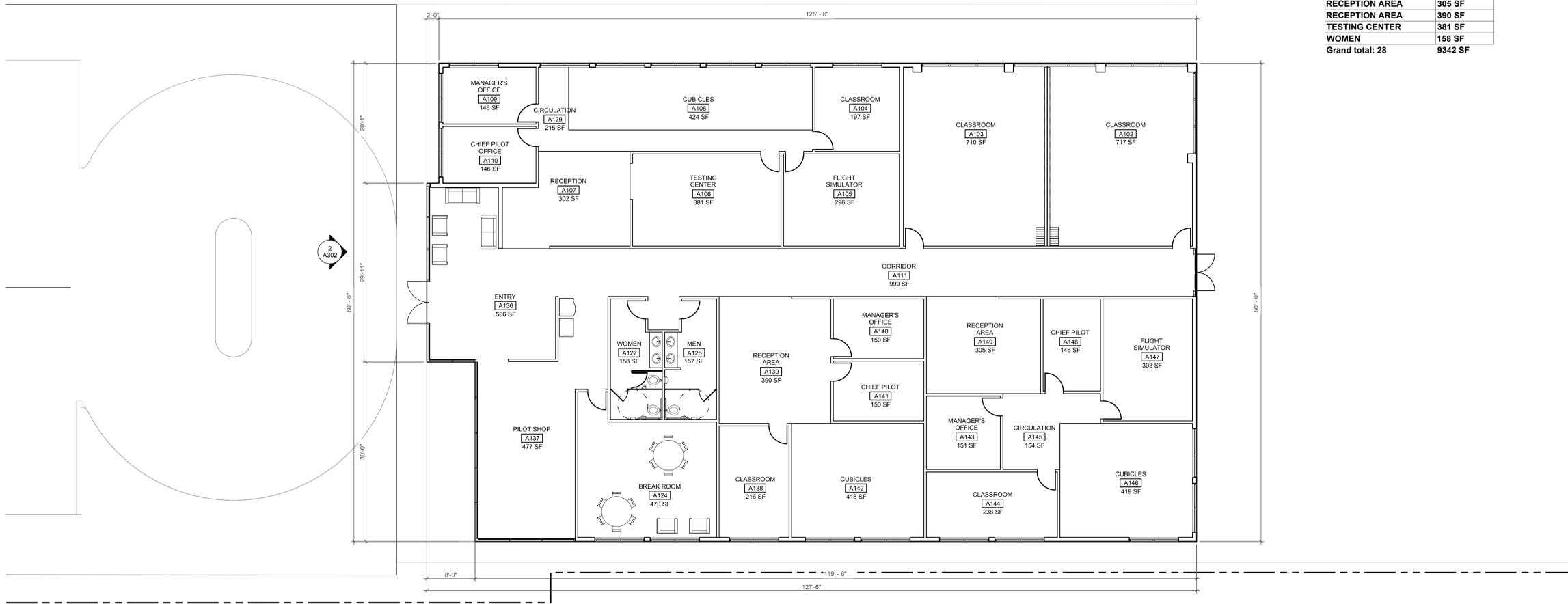


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Project		GA IMPROVEMENT PROGRAM EAST SIDE DEVELOPMENT - ALTERNATIVE 1		AECOM		AECOM		AECOM		Date		Date	
Project		JOHN WAYNE AIRPORT ORANGE COUNTY, CALIFORNIA		AECOM		AECOM		AECOM		Date		Date	
Proj. No.		P xxx		Date: DEC. 14, 2017		Drawn		Chkd.		Date		By	
Approvals		Project Manager		Section Manager		Date		Date		Date		Date	
Date		12/14/17		Date		Date		Date		Date		Date	
Plan No.		xxx		Date		Date		Date		Date		Date	
Sheet		A-100		Date		Date		Date		Date		Date	
155 of 172													



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1 FIRST FLOOR PLAN

A-FBO-100 REF: A-FBO-301

SCALE: 1/8"=1'-0"

PROGRAM	
WTWT	AREA
BREAK ROOM	470 SF
CHIEF PILOT	146 SF
CHIEF PILOT	150 SF
CHIEF PILOT OFFICE	146 SF
CIRCULATION	154 SF
CIRCULATION	215 SF
CLASSROOM	197 SF
CLASSROOM	216 SF
CLASSROOM	238 SF
CLASSROOM	710 SF
CLASSROOM	717 SF
CORRIDOR	999 SF
CUBICLES	418 SF
CUBICLES	419 SF
CUBICLES	424 SF
ENTRY	506 SF
FLIGHT SIMULATOR	296 SF
FLIGHT SIMULATOR	303 SF
MANAGER'S OFFICE	146 SF
MANAGER'S OFFICE	150 SF
MANAGER'S OFFICE	151 SF
MEN	157 SF
PILOT SHOP	477 SF
RECEPTION	302 SF
RECEPTION AREA	305 SF
RECEPTION AREA	390 SF
TESTING CENTER	381 SF
WOMEN	158 SF
Grand total: 28	9342 SF

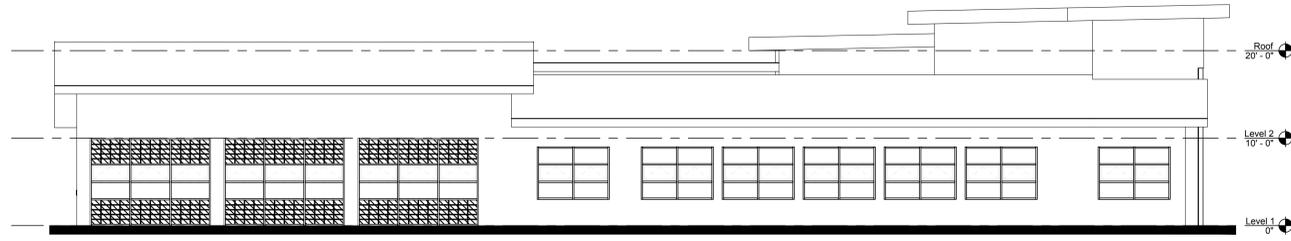


Revisions	SEAL	Consultant	SEAL	A-E
		AECOM <small>393 FOWLER COUNTY ROAD ORANGE, CALIFORNIA 92668 T: 714.987.2400 F: 714.987.2728 www.aecom.com</small>		

Sht Title: FLIGHT SCHOOL - FIRST FLOOR PLAN
 Project: GA IMPROVEMENT PROGRAM
 EAST SIDE DEVELOPMENT - ALTERNATIVE 1
 JOHN WAYNE AIRPORT
 ORANGE COUNTY, CALIFORNIA
 P xxx Date: DEC. 14, 2017
 Drawn: [] Chkd: []

Approvals
 Project Manager
 Section Manager
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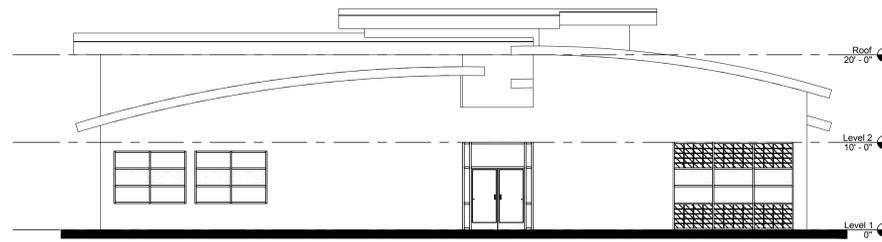
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1 NORTH ELEVATION

A301 REF: A103

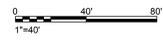
SCALE: 1/8" = 1'-0"



2 EAST ELEVATION

A301 REF: A103

SCALE: 1/8" = 1'-0"



County of Orange JWA																																												
Sht Title FLIGHT SCHOOL - EXTERIOR ELEVATIONS	Project GA IMPROVEMENT PROGRAM EAST SIDE DEVELOPMENT - ALTERNATIVE 1 JOHN WAYNE AIRPORT ORANGE COUNTY, CALIFORNIA	Project No. P xxx	Date DEC. 14, 2017	A-E A-E	SEAL SEAL	Consultant AECOM 900 FOWLER BLVD ORANGE, CALIFORNIA 92668 T: 714.897.2400 F: 714.897.2728 www.aecom.com	Revisions <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Rev.</th> <th>Descr.</th> <th>Date</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Rev.	Descr.	Date																															SEAL SEAL	Drawn Chkd. Date Date	Date Date	Date Date
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Approvals Project Manager Section Manager		12/14/17 Date Plan No. xxx		Sheet A-301		157 of 172		15% DESIGN SUBMITTAL																																				

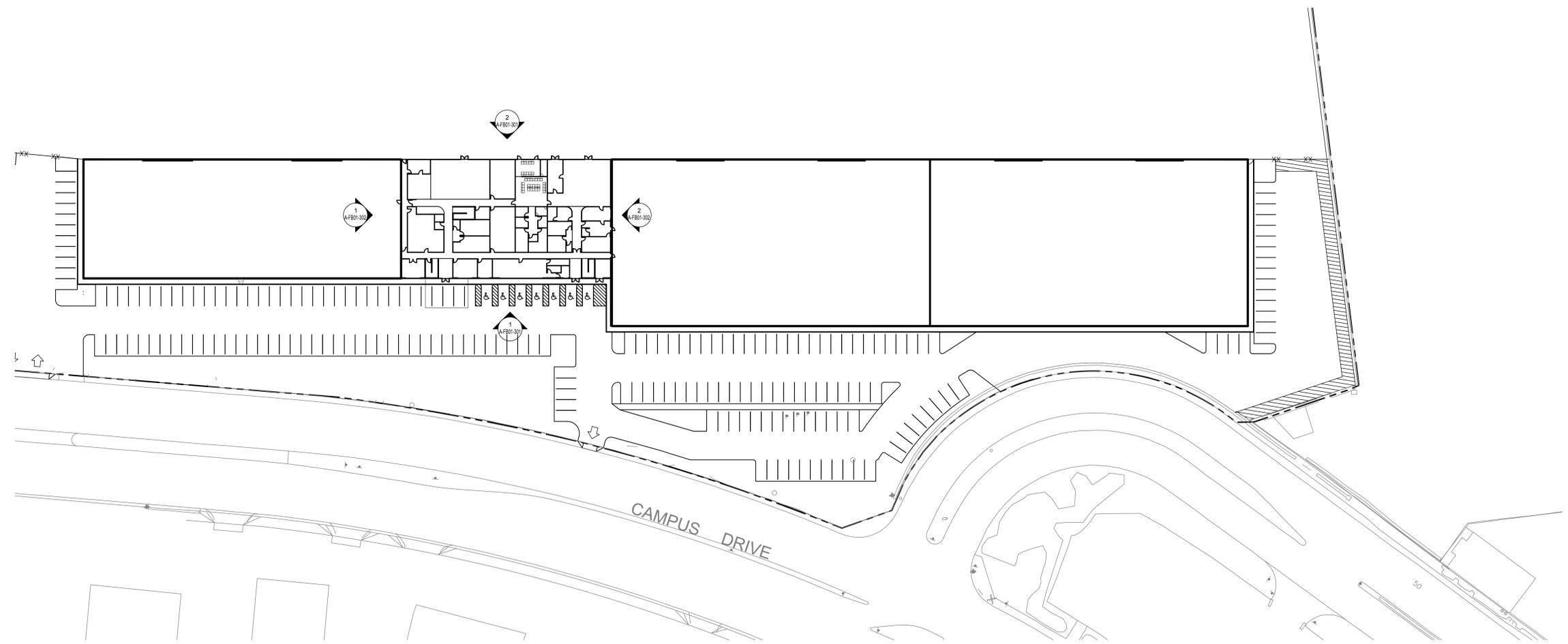
4.3 Alternative 2

The following architectural plans provide preliminary floor plan design drawings for each building associated with Alternative 2.

Facility	Overall Plan	First Floor Plan	Second Floor Plan	Exterior Elevations
Full Service Northeast FBO	X	X	X	X
Full Service Southeast FBO	X	X	X	X
Limited Service Southwest FBO	X	X	X	X
OCSD Air Support Facility	X	X	X	X
Box Hangar		X		X
T-Hangar (Multi Engine)		X		X
T-Hangar (Single Engine)		X		X
Flight School	X	X		X

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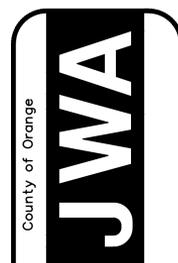
PROGRAMS-HANGAR	
Name	Area
HANGAR 1	26,400 SF
HANGAR 2	36,960 SF
HANGAR 3	36,960 SF
GRAND TOTAL:	100,320 SF



1 OVERALL PLAN

A:FB0-100 REF: A:FB0-301

SCALE: 1"=40'-0"



Revisions	Sym.	Date	By

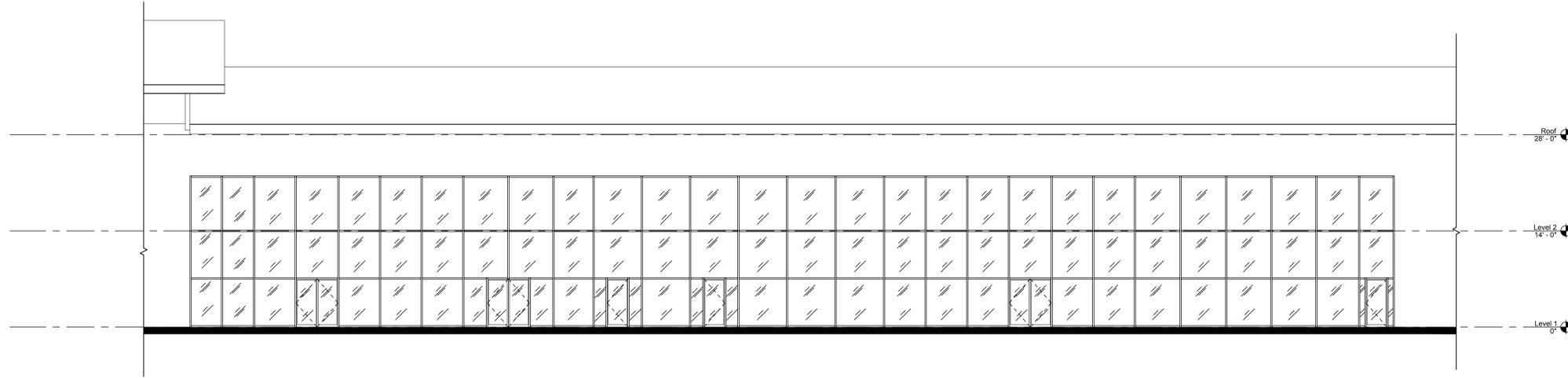
SEAL	SEAL	SEAL	SEAL

Sht Title: FB02 - OVERALL PLAN	
Project: GA IMPROVEMENT PROGRAM EAST SIDE DEVELOPMENT - ALTERNATIVE 2 JOHN WAYNE AIRPORT ORANGE COUNTY, CALIFORNIA	
Proj. No. P xxx	Date: DEC. 14, 2017
Approvals Project Manager _____ Section Manager _____ Date: 12/14/17 Plan No. xxx Sheet A-FB02-100 155 of 172	

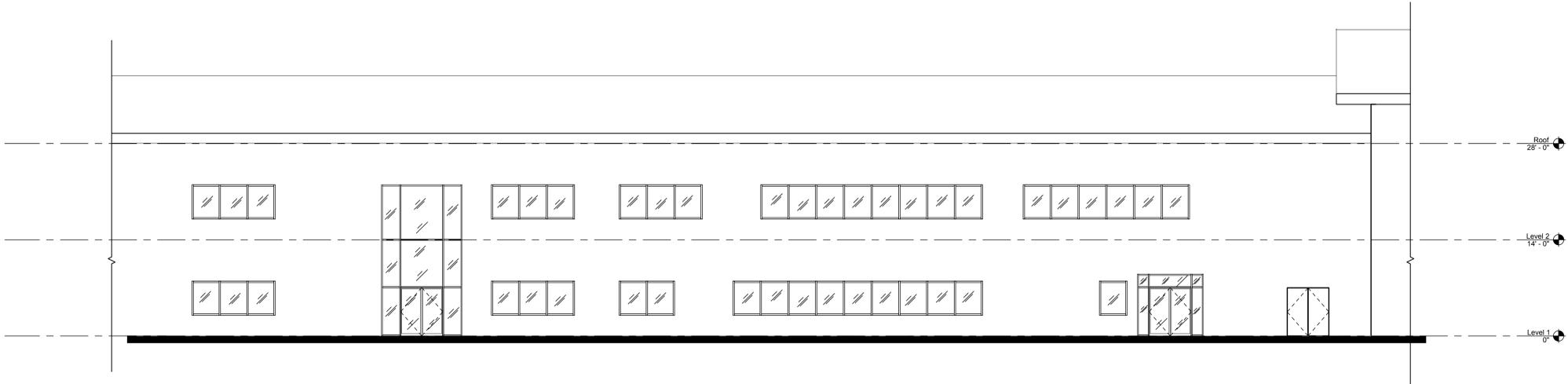
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 900 FOWLER BLVD
 ORANGE, CALIFORNIA 92668
 T: 714.897.2400
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2 OFFICES WEST ELEVATION
A-FB01-301 REF: A103 SCALE: 1/8" = 1'-0"



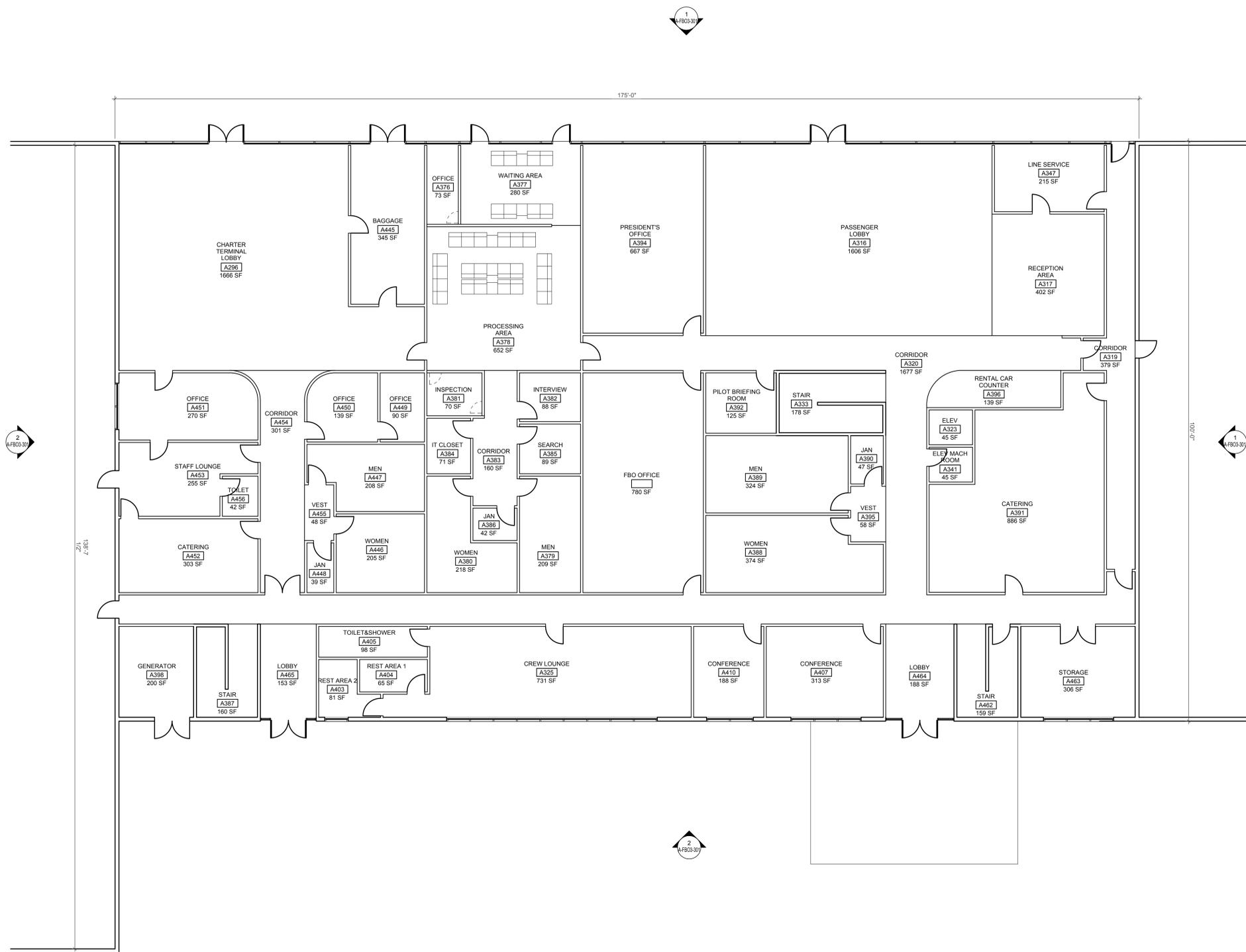
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A-FB01-301 REF: A103 SCALE: 1/8" = 1'-0"



County of Orange		JWA	
Sht Title	FB02 - EXTERIOR ELEVATIONS 1 OF 2	SEAL	SEAL
Project	GA IMPROVEMENT PROGRAM EAST SIDE DEVELOPMENT - ALTERNATIVE 2 JOHN WAYNE AIRPORT ORANGE COUNTY, CALIFORNIA	Consultant	AECOM 225 FOWLER BLVD ORANGE, CALIFORNIA 92668 T: 714.587.2400 F: 714.587.2728 www.aecom.com
Proj. No.	P xxx	Drawn	Chkd.
Date	DEC. 14, 2017	Date	Date
Approvals		Revisions	
Project Manager		Sym.	
Section Manager		Date	
12/14/17		Date	
Date		Date	
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1 FIRST FLOOR PLAN

A-FB0-100 REF: A-FB0-301

SCALE: 1/8"=1'-0"

PROGRAMS-FBO	
Name	Area
BAGGAGE	345 SF
CORRIDOR	379 SF
CORRIDOR	1677 SF
CATERING	886 SF
CATERING	303 SF
CHARTER TERMINAL LOBBY	1666 SF
CORRIDOR	160 SF
CORRIDOR	301 SF
CONFERENCE	313 SF
CONFERENCE	188 SF
CREW LOUNGE	731 SF
ELEV.	45 SF
FBO OFFICE	780 SF
GENERATOR	200 SF
IT CLOSET	71 SF
INSPECTION	70 SF
INTERVIEW	88 SF
JAN	42 SF
JAN	47 SF
JAN	39 SF
LINE SERVICE	215 SF
LOBBY	188 SF
LOBBY	153 SF
MEN	209 SF
MEN	324 SF
MEN	208 SF
OFFICE	90 SF
OFFICE	139 SF
OFFICE	270 SF
OFFICE	73 SF
PASSENGER LOBBY	1606 SF
PILOT BRIEFING ROOM	125 SF
PRESIDENT'S OFFICE	667 SF
PROCESSING AREA	652 SF
RECEPTION AREA	402 SF
RENTAL CAR COUNTER	139 SF
REST AREA 1	65 SF
REST AREA 2	81 SF
SEARCH	89 SF
STAFF LOUNGE	255 SF
STAIR	160 SF
STAIR	159 SF
STAIR	178 SF
STAIR	379 SF
STAIR	178 SF
STORAGE	306 SF
TOILET&SHOWER	98 SF
TOILET	42 SF
VEST	58 SF
VEST	48 SF
WAITING AREA	280 SF
WOMEN	218 SF
WOMEN	374 SF
WOMEN	205 SF
WOMEN	205 SF
Grand total:	16407 SF



County of Orange
JWA

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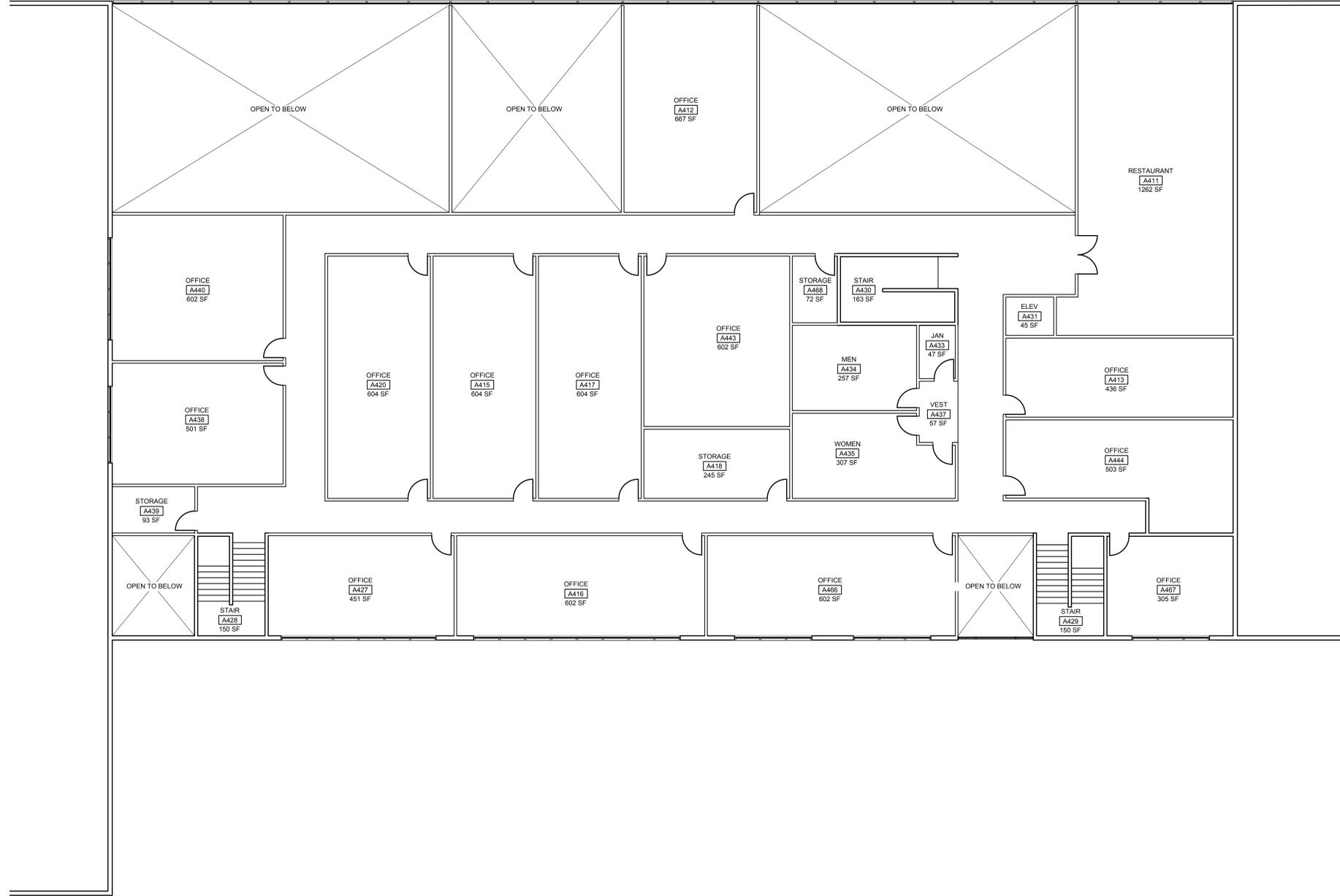
388 FOWA BL. SUITE 100
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 F: 714.967.2728
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Sht Title: FBO3 - FIRST FLOOR PLAN
 Project: GA IMPROVEMENT PROGRAM
 EAST SIDE DEVELOPMENT - ALTERNATIVE 2
 JOHN WAYNE AIRPORT
 ORANGE COUNTY, CALIFORNIA
 Proj. No.: P xxx Date: DEC. 14, 2017
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 Date: 12/14/17
 Plan No.: xxx
 Sheet: A-FB03-101
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1 SECOND FLOOR PLAN

A-FB01-102 REF: A-FB01-301

SCALE: 1/8"=1'-0"



Revisions	Sym.	Date	By

County of Orange
JWA

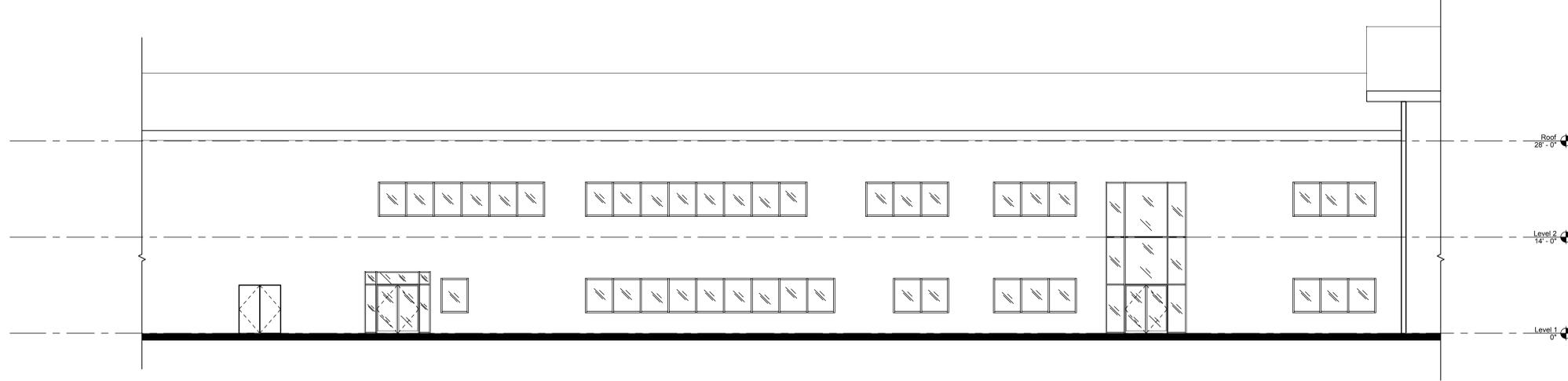
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AECOM
 900 FOWLER BLVD., SUITE 1500
 ORANGE, CALIFORNIA 92668
 T: 714.957.2400
 F: 714.957.2728
 www.aecom.com

Sht Title: FB03 SECOND FLOOR PLAN
 Project: GA IMPROVEMENT PROGRAM
 EAST SIDE DEVELOPMENT - ALTERNATIVE 2
 JOHN WAYNE AIRPORT
 ORANGE COUNTY, CALIFORNIA
 Date: DEC. 14, 2017
 P xxx

Approvals
 Project Manager _____
 Section Manager _____
 Date: 12/14/17
 Plan No. xxx
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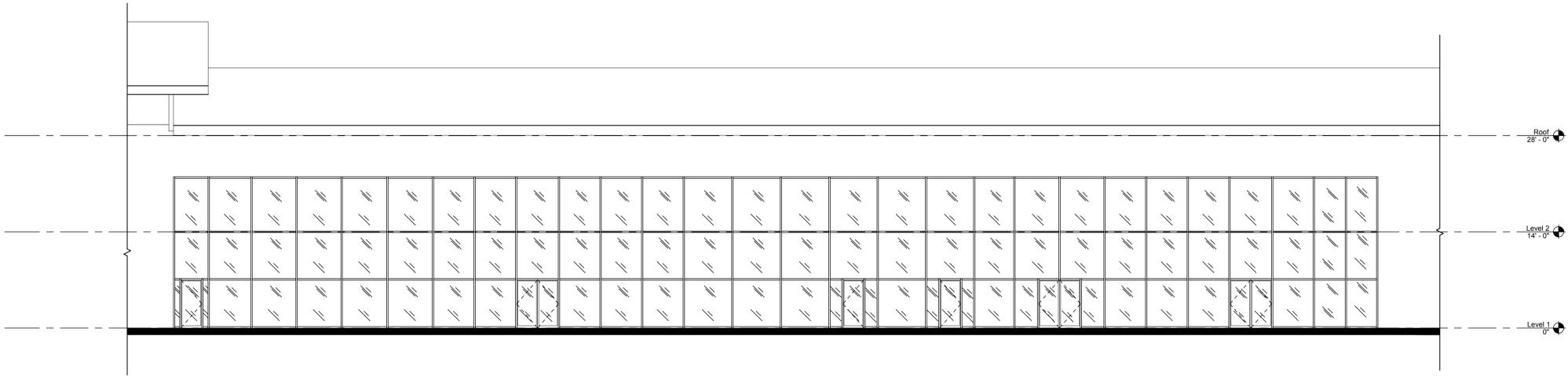
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2 OFFICES WEST ELEVATION

A-FB01-301 REF: A103

SCALE: 1/8" = 1'-0"



1 OFFICES EAST ELEVATION

A-FB01-301 REF: A103

SCALE: 1/8" = 1'-0"

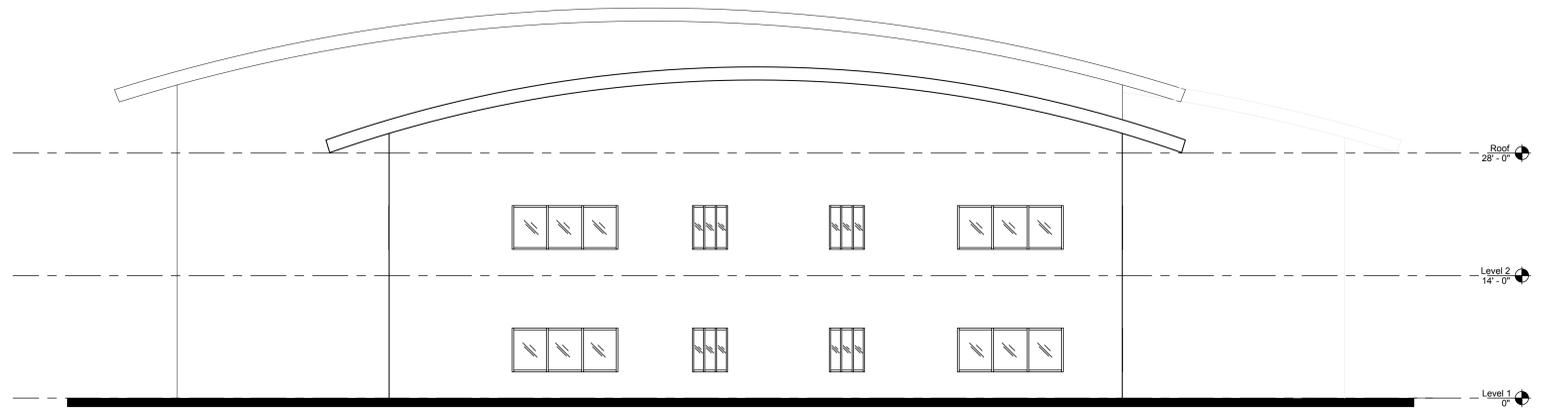


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		AECOM 600 FOWLER COURT, SUITE 1000 ORANGE, CALIFORNIA 92668 T: 714.957.2400 F: 714.957.2728 www.aecom.com		

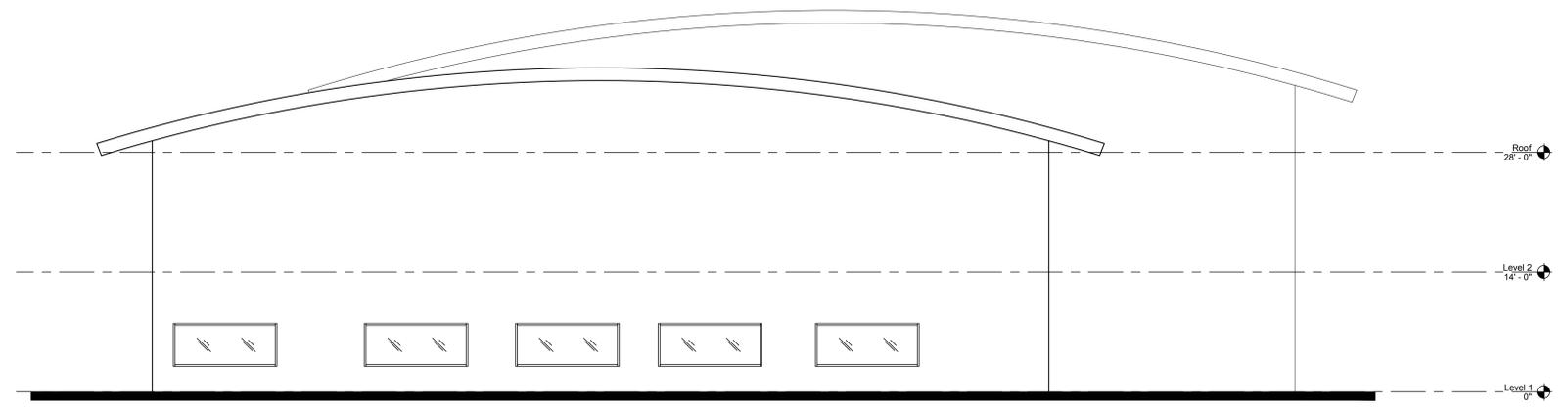
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Date:	DEC. 14, 2017

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Section Manager	
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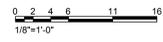
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2 WEST ELEVATION
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1 EAST ELEVATION
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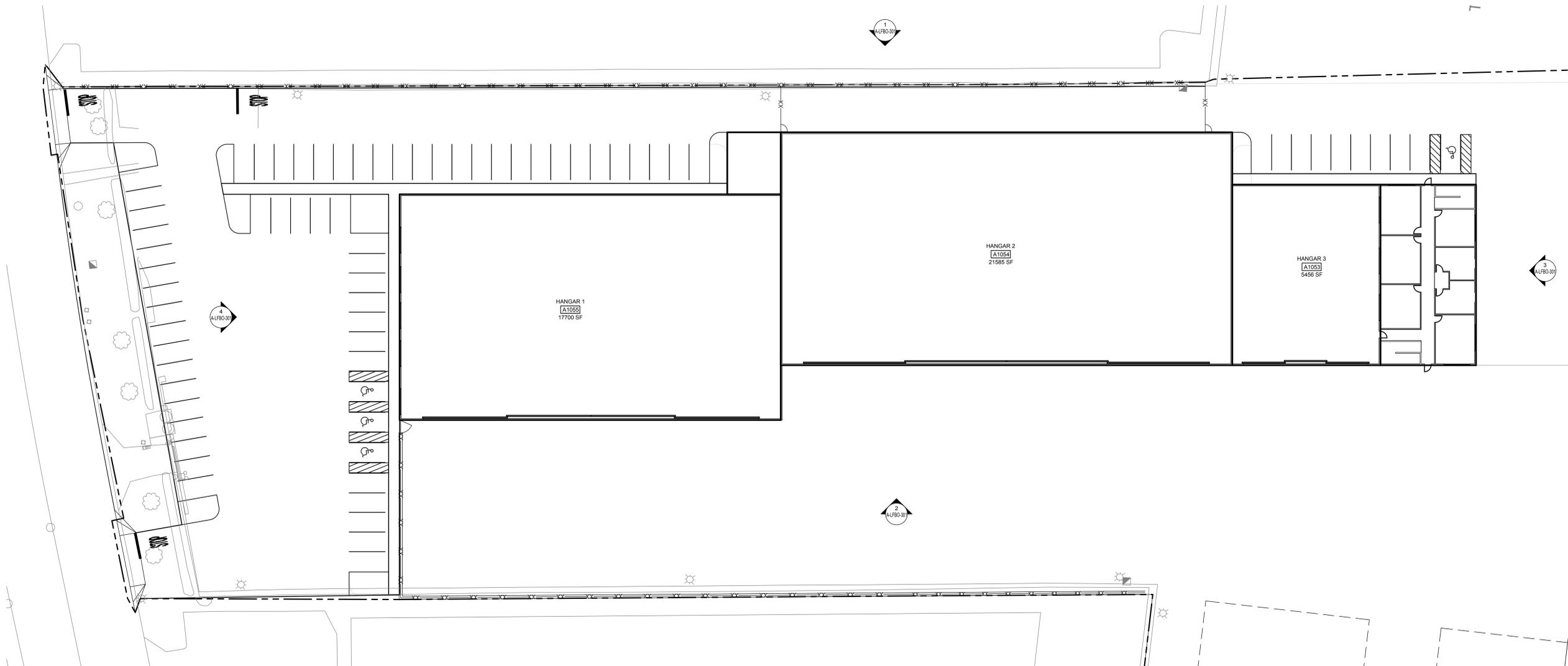


County of Orange		JWA	
Sht Title	FB03 - EXTERIOR ELEVATIONS 2 OF 2	SEAL	SEAL
Project	GA IMPROVEMENT PROGRAM EAST SIDE DEVELOPMENT - ALTERNATIVE 2 JOHN WAYNE AIRPORT ORANGE COUNTY, CALIFORNIA	Consultant	AECOM 225 FOWLER COLLETT BLVD ORANGE, CALIFORNIA 92668 T: 714.957.2400 F: 714.957.2728 www.aecom.com
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Date	DEC. 14, 2017	Date	Date
Approvals		Revisions	
Project Manager		Sym.	
Section Manager		Date	
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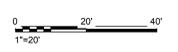
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PROJECT SQUARE FOOTAGE	
ROOM NAME	Area
HANGAR BAY 1	17700 SF
HANGAR BAY 2	21585 SF
HANGAR BAY 3	5456 SF
Grand total: 11	44741 SF



1 OVERALL PLAN
 A-LFBO-100 REF: A-LFBO-301 SCALE: 1"=20'-0"



Revisions	SEAL	SEAL	Consultant	SEAL	SEAL	Chkd.	Date	By
			AECOM					

Sht Title LFBO - OVERALL PLAN
 Project GA IMPROVEMENT PROGRAM
 WEST SIDE DEVELOPMENT - ALTERNATIVE 2
 JOHN WAYNE AIRPORT
 ORANGE COUNTY, CALIFORNIA
 Date: DEC. 14, 2017
 P xxx

Approvals
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 Section Manager
 Date 12/14/17
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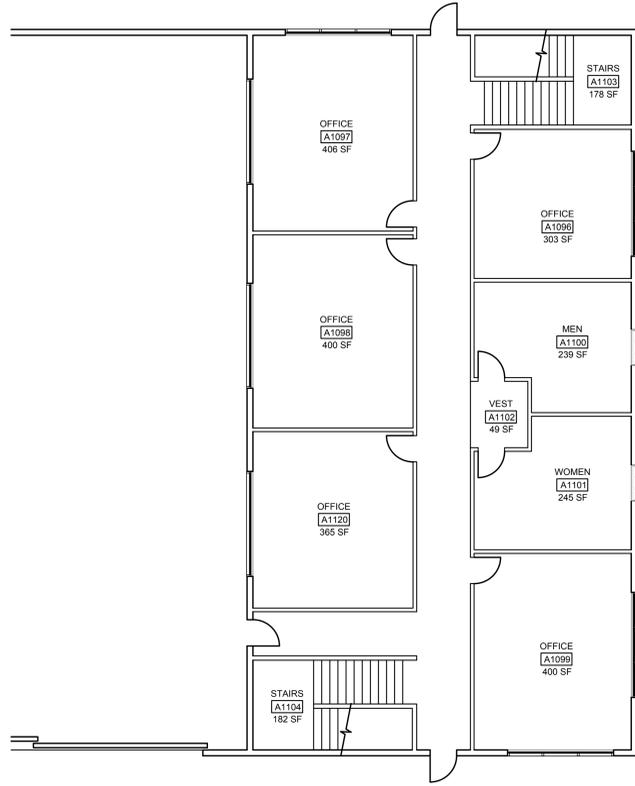
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1 EAST SIDE OFFICE FIRST FLOOR PLAN

A-LFBO-101 REF: A-LFBO-301

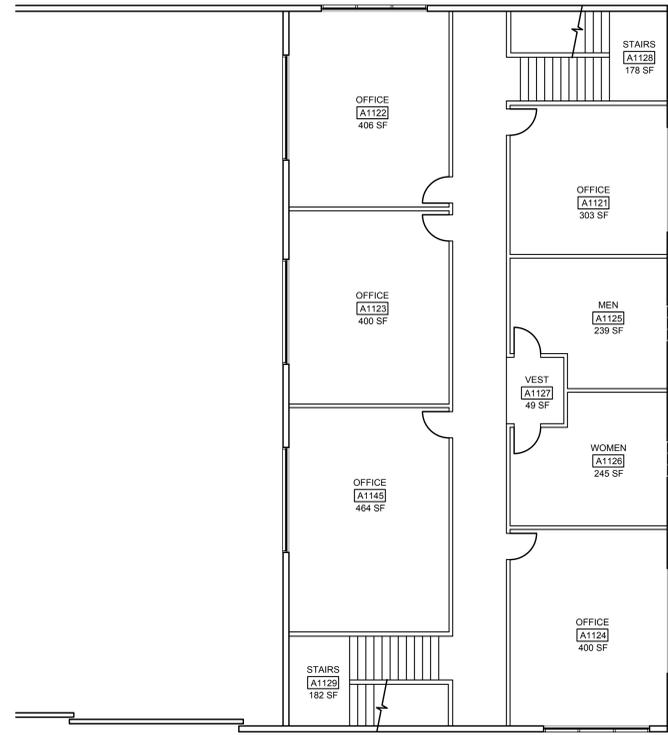
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Proj. No. P xxx		Date: DEC. 14, 2017		Date		Date		Date		Date		Date	
Approvals		Project Manager		Section Manager		Chkd.		Chkd.		Chkd.		Chkd.	
Date 12/14/17		Date		Date		Date		Date		Date		Date	
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County of Orange		Date		Date		Date		Date		Date		Date	
JWA		Date		Date		Date		Date		Date		Date	

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1 EAST SIDE OFFICE SECOND FLOOR PLAN

A-LFBO-102 REF: A-LFBO-301

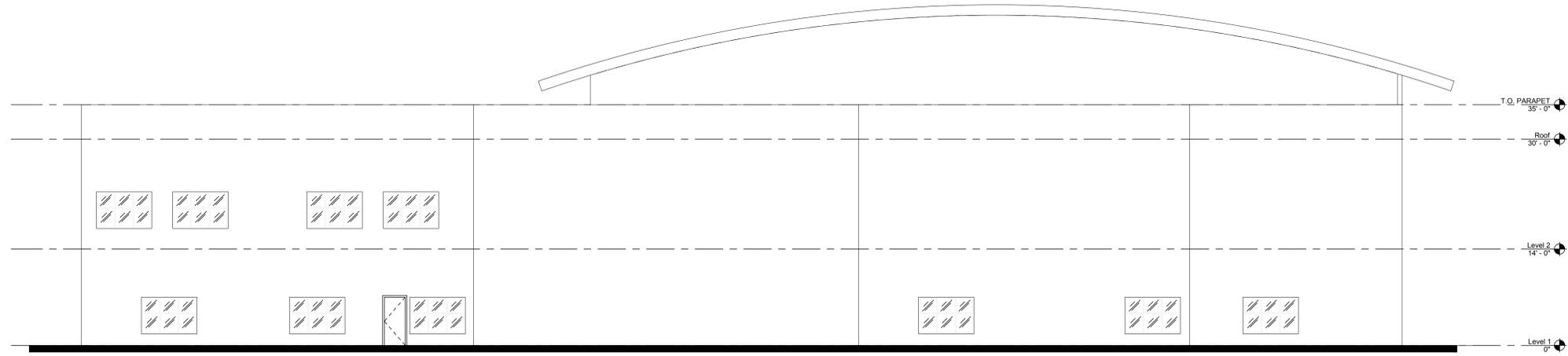
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Sht Title LFBO - SECOND FLOOR PLAN		A-E		SEAL		SEAL		SEAL		SEAL		Revisions		County of Orange	
Project GA IMPROVEMENT PROGRAM WEST SIDE DEVELOPMENT - ALTERNATIVE 2 JOHN WAYNE AIRPORT ORANGE COUNTY, CALIFORNIA		P xxx		Date: DEC. 14, 2017		Date		Date		Date		Date		By	
Project Manager		Section Manager		Date		Date		Date		Date		Date		Date	
12/14/17		xxx		xxx		xxx		xxx		xxx		xxx		xxx	
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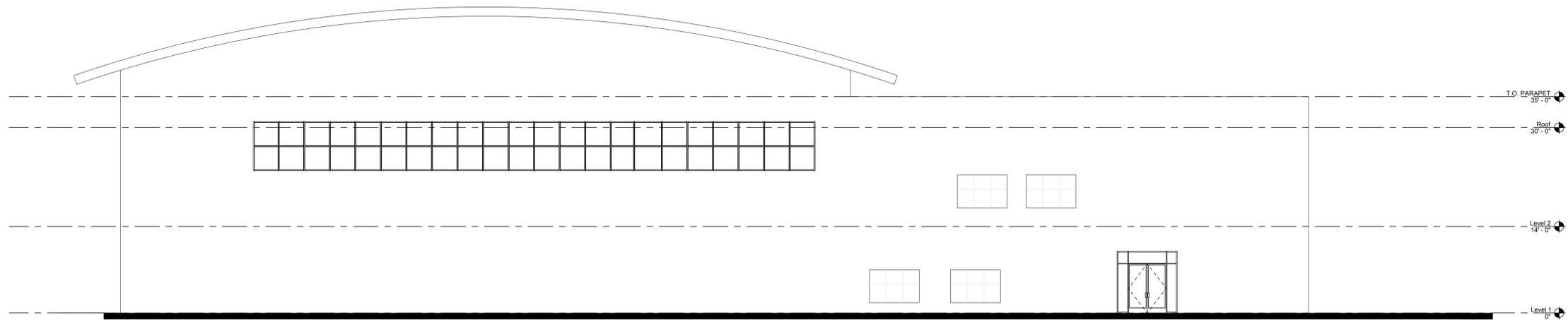
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1 SOUTH ELEVATION

A-OCSD-301 REF: A201

SCALE: 1/8" = 1'-0"



2 NORTH ELEVATION

A-OCSD-301 REF: A201

SCALE: 1/8" = 1'-0"



County of Orange

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Consultant
AECOM
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 ORANGE, CALIFORNIA 92668
 T: 714.897.2400
 F: 714.897.2728
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A-E	Date	Chkd.

Sht Title	Date	Chkd.
OCSD - EXTERIOR ELEVATIONS 2 OF 2	DEC. 14, 2017	

Project
 GA IMPROVEMENT PROGRAM
 WEST SIDE DEVELOPMENT - ALTERNATIVE 2
 JOHN WAYNE AIRPORT
 ORANGE COUNTY, CALIFORNIA

Project No. P xxx Date: DEC. 14, 2017
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 Project Manager
 Section Manager

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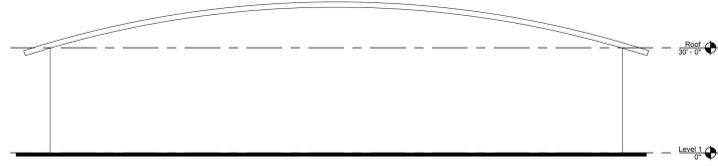
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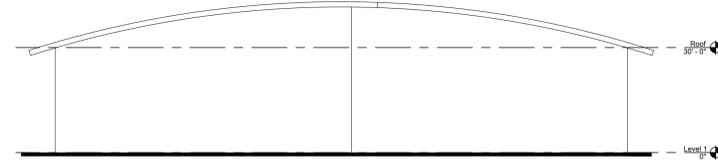
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3 EAST ELEVATION

A-B-301 REF: A101

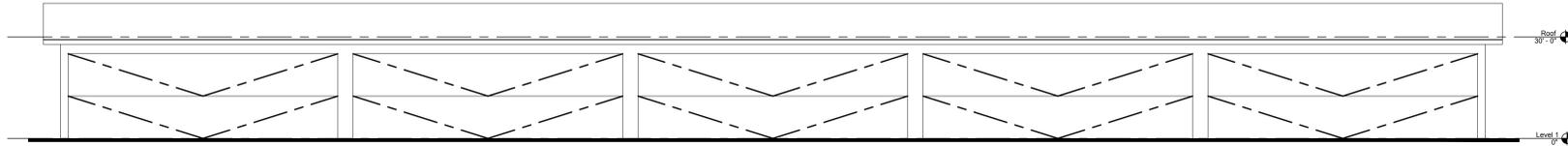
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4 WEST ELEVATION

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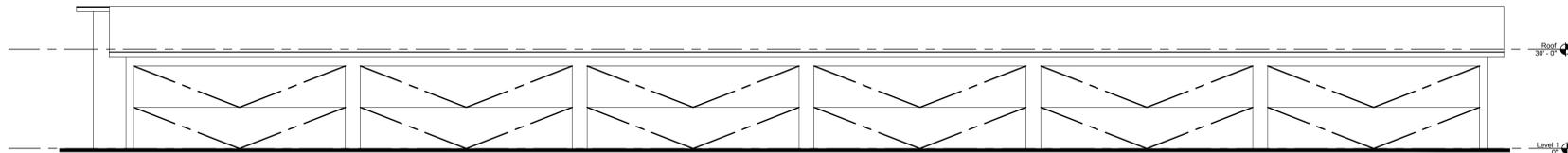
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1 NORTH ELEVATION

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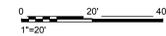
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2 SOUTH ELEVATION

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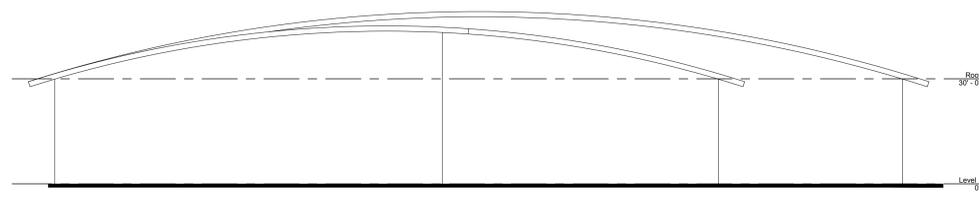


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		AECOM		
		98 FAWN A. COLLETTI, P.E. ORANGE, CALIFORNIA 92668 T: 714.587.2400 F: 714.587.2728 www.aecom.com		

Sheet Title	BOX HANGAR - EXTERIOR ELEVATIONS - 11 BAYS
Project	GA IMPROVEMENT PROGRAM WEST SIDE DEVELOPMENT - ALTERNATIVE 2 JOHN WAYNE AIRPORT ORANGE COUNTY, CALIFORNIA
Proj. No.	P xxx
Date:	DEC. 14, 2017

Approvals	
Project Manager	
Section Manager	
Date	12/14/17
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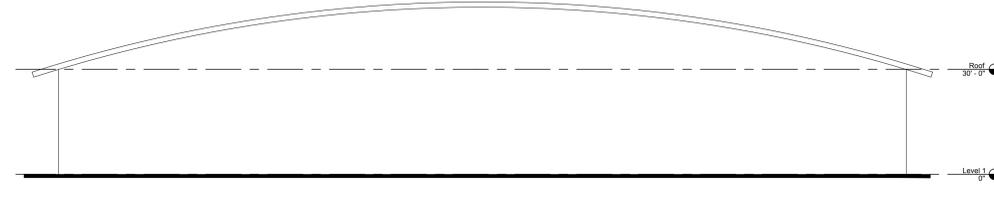
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3 EAST ELEVATION

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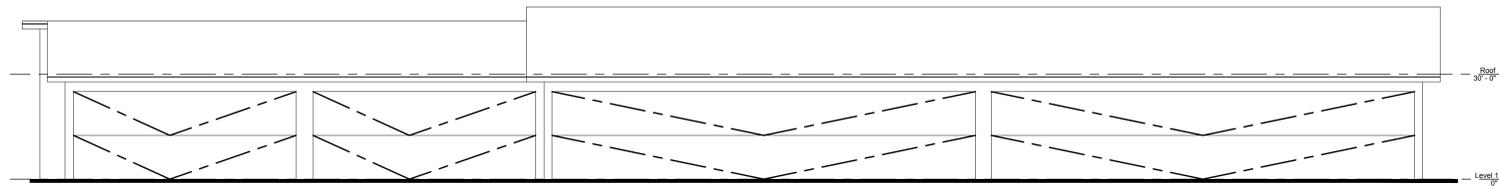
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4 WEST ELEVATION

A-B-301 REF: A101

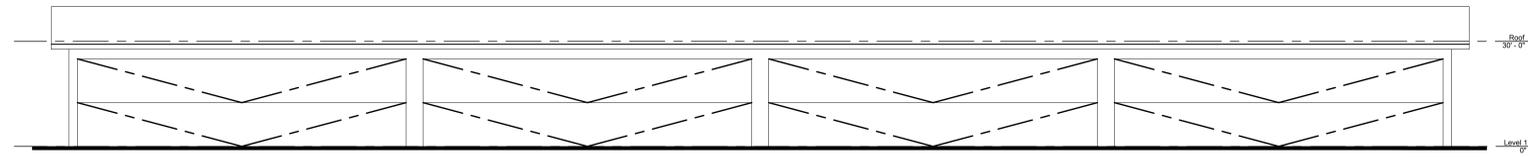
SCALE: 1" = 20'-0"



1 NORTH ELEVATION

A-B-301 REF: A101

SCALE: 1" = 20'-0"



2 SOUTH ELEVATION

A-B-301 REF: A101

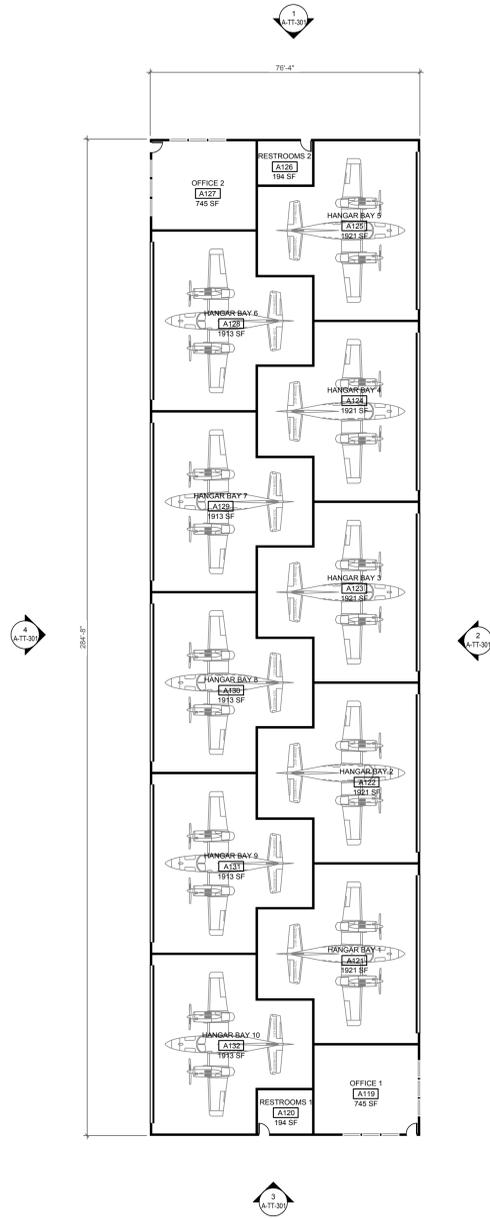
SCALE: 1" = 20'-0"



County of Orange		JWA	
Sht Title	BOX HANGAR - EXTERIOR ELEVATIONS - 8 BAYS	SEAL	SEAL
Project	GA IMPROVEMENT PROGRAM WEST SIDE DEVELOPMENT - ALTERNATIVE 2 JOHN WAYNE AIRPORT ORANGE COUNTY, CALIFORNIA	Consultant	AECOM 200 FOWLER STREET, SUITE 1000 ORANGE, CALIFORNIA 92668 T: 714.897.2400 F: 714.897.2728 www.aecom.com
Proj. No.	P xxx	Drawn	Chkd.
Date	DEC. 14, 2017	Date	Date
Approvals		Revisions	
Project Manager		Sym.	
Section Manager		Date	
12/14/17		Date	
xxx		Date	
Sheet		Date	
A-BX-302		Date	
99 of 108		Date	

15% DESIGN SUBMITTAL

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1 FIRST FLOOR PLAN

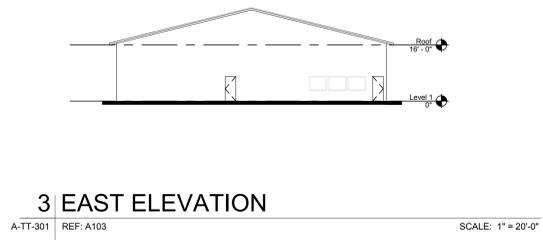
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SCALE: 1" = 20'-0"

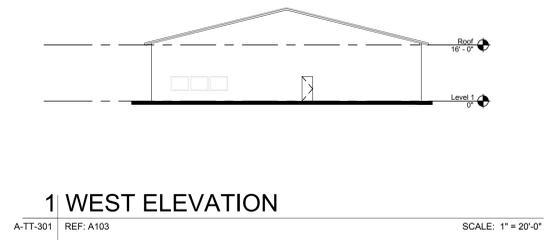
PROJECT SQUARE FOOTAGE	
NAME	AREA
HANGAR BAY 1	1976 SF
HANGAR BAY 2	1976 SF
HANGAR BAY 3	1976 SF
HANGAR BAY 4	1976 SF
HANGAR BAY 5	1976 SF
HANGAR BAY 6	1968 SF
HANGAR BAY 7	1968 SF
HANGAR BAY 8	1968 SF
HANGAR BAY 9	1968 SF
HANGAR BAY 10	1968 SF
OFFICE 1	745 SF
OFFICE 2	745 SF
RESTROOMS 1	194 SF
RESTROOMS 2	194 SF
Grand total:	17 21598 SF

County of Orange		JWA	
Sht Title	T HANGAR TWIN ENGINE - FIRST FLOOR PLAN	SEAL	
Project	GA IMPROVEMENT PROGRAM EAST SIDE DEVELOPMENT - ALTERNATIVE 2 JOHN WAYNE AIRPORT ORANGE COUNTY, CALIFORNIA	SEAL	
Project No.	P xxx	SEAL	
Date	DEC. 14, 2017	SEAL	
Section Manager		SEAL	
Date	12/14/17	SEAL	
Plan No.	xxx	SEAL	
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Section Manager		SEAL	
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Project Manager		SEAL	
Section Manager			

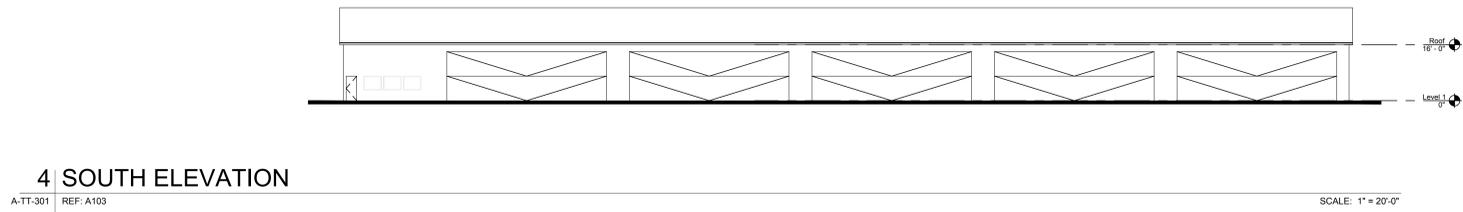
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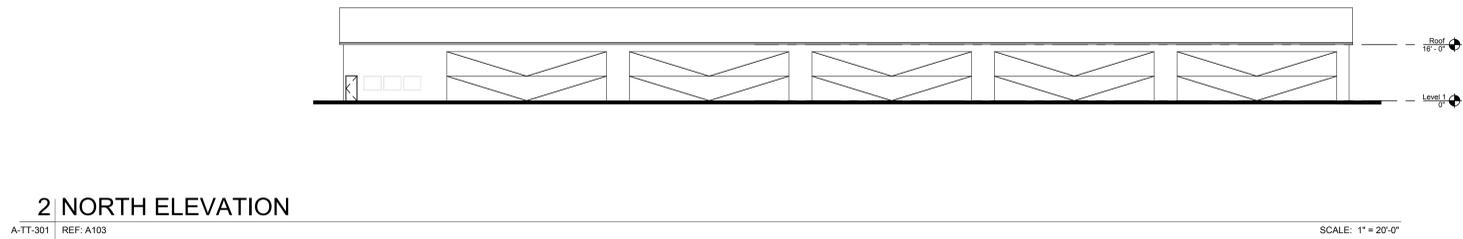
3 EAST ELEVATION
 A-TT-301 REF: A103 SCALE: 1" = 20'-0"



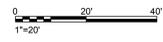
1 WEST ELEVATION
 A-TT-301 REF: A103 SCALE: 1" = 20'-0"



4 SOUTH ELEVATION
 A-TT-301 REF: A103 SCALE: 1" = 20'-0"



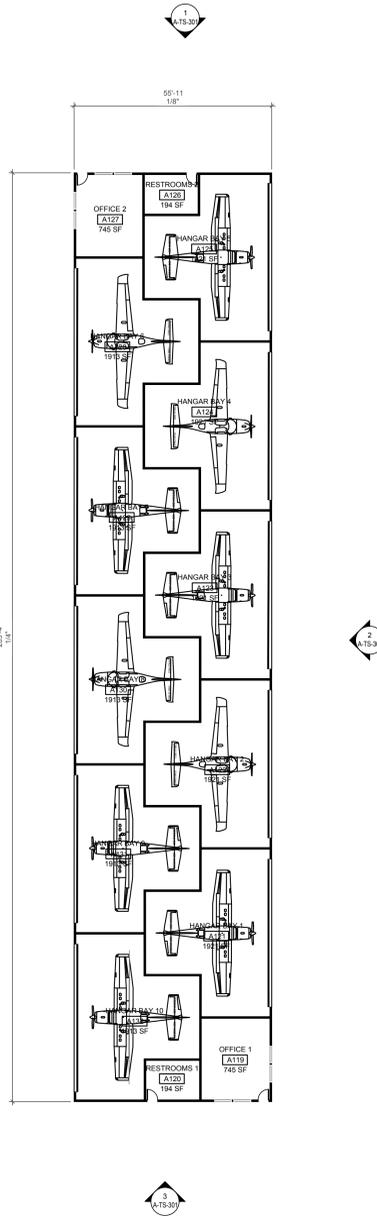
2 NORTH ELEVATION
 A-TT-301 REF: A103 SCALE: 1" = 20'-0"



County of Orange		JWA	
Sht Title	T HANGAR TWIN ENGINE - EXTERIOR ELEVATIONS	SEAL	SEAL
Project	GA IMPROVEMENT PROGRAM EAST SIDE DEVELOPMENT - ALTERNATIVE 2 JOHN WAYNE AIRPORT ORANGE COUNTY, CALIFORNIA	Consultant	AECOM 200 FOWLER SQUARE, SUITE 1000 ORANGE, CALIFORNIA 92668 T: 714.987.2400 F: 714.987.2728 www.aecom.com
Proj. No.	P xxx	Date	DEC. 14, 2017
Approvals		Sym.	Date
Project Manager		Chkd.	Date
Section Manager		Date	Date
12/14/17		Date	Date
xxx		Date	Date
xxx		Date	Date
A-TT-301		Date	Date
161 of 172		Date	Date

15% DESIGN SUBMITTAL

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1 FIRST FLOOR PLAN - T-HANGAR

A-TT-101 REF: A-TT-301

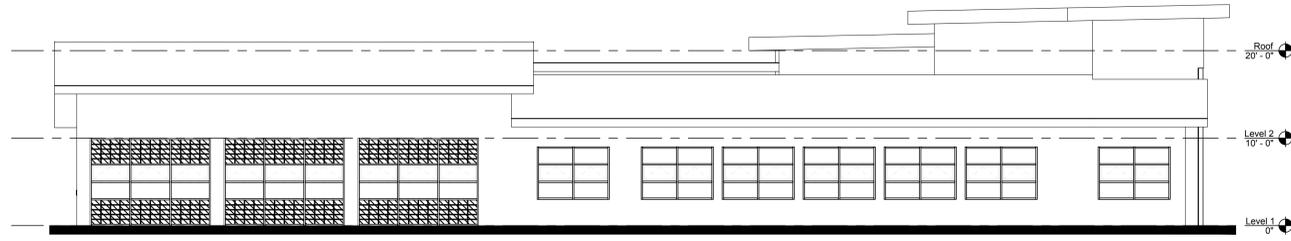
SCALE: 1" = 20'-0"

PROJECT SQUARE FOOTAGE	
NAME	AREA
HANGAR BAY 1	1976 SF
HANGAR BAY 2	1976 SF
HANGAR BAY 3	1976 SF
HANGAR BAY 4	1976 SF
HANGAR BAY 5	1976 SF
HANGAR BAY 6	1968 SF
HANGAR BAY 7	1968 SF
HANGAR BAY 8	1968 SF
HANGAR BAY 9	1968 SF
HANGAR BAY 10	1968 SF
OFFICE 1	745 SF
OFFICE 2	745 SF
RESTROOMS 1	194 SF
RESTROOMS 2	194 SF
Grand total:	17 21598 SF

County of Orange		JWA	
Sht Title	T-HANGAR SINGLE ENGINE - FIRST FLOOR PLAN	SEAL	SEAL
Project	GA IMPROVEMENT PROGRAM EAST SIDE DEVELOPMENT - ALTERNATIVE 2 JOHN WAYNE AIRPORT ORANGE COUNTY, CALIFORNIA	Consultant	AECOM 200 FOWLER SQUARE, SUITE 1000 ORANGE, CALIFORNIA 92668 T: 714.897.2400 F: 714.897.2728 www.aecom.com
Project No.	P xxx	Drawn	Chkd.
Date	DEC. 14, 2017	Date	Date
Approvals		Revisions	
Project Manager		Sym.	
Section Manager		Date	
Date		Date	
12/14/17		Date	
Plan No.		Date	
xxx		Date	
Sheet		Date	
A-TS-101		Date	
162 of 172		Date	

15% DESIGN SUBMITTAL

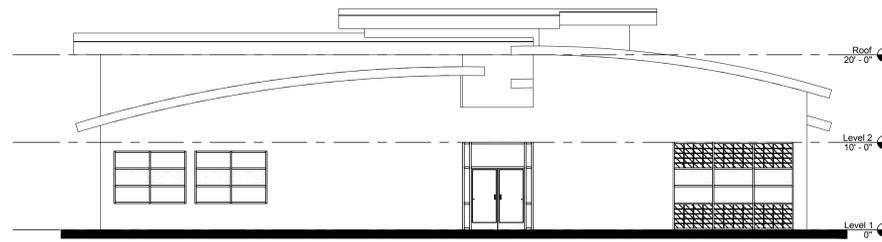
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1 NORTH ELEVATION

A301 REF: A103

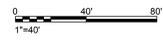
SCALE: 1/8" = 1'-0"



2 EAST ELEVATION

A301 REF: A103

SCALE: 1/8" = 1'-0"



County of Orange JWA					
Sht Title FLIGHT SCHOOL - EXTERIOR ELEVATIONS	A-E	SEAL	Consultant AECOM 900 FOWLER COLLETSVILLE ROAD ORANGE, CALIFORNIA 92668 T: 714.897.2400 F: 714.897.2728 www.aecom.com	Revisions	SEAL
Project GA IMPROVEMENT PROGRAM EAST SIDE DEVELOPMENT - ALTERNATIVE 2 JOHN WAYNE AIRPORT ORANGE COUNTY, CALIFORNIA	Date: DEC. 14, 2017	Drawn P xxx	Chkd. P xxx	Date DEC. 14, 2017	Chkd. P xxx
Approvals Project Manager Section Manager		Date 12/14/17		Plan No. xxx	
Sheet A-301		171 of 172		15% DESIGN SUBMITTAL	

