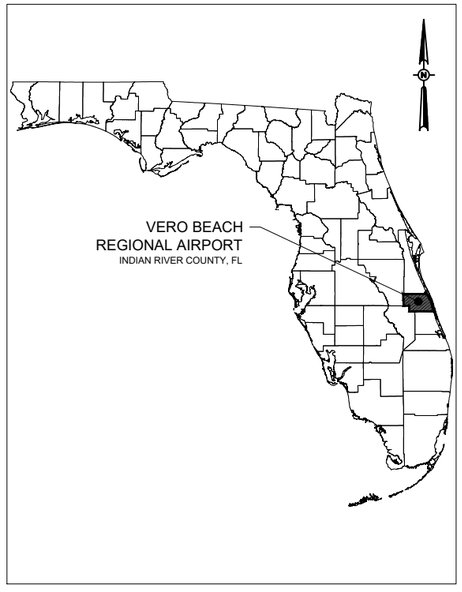
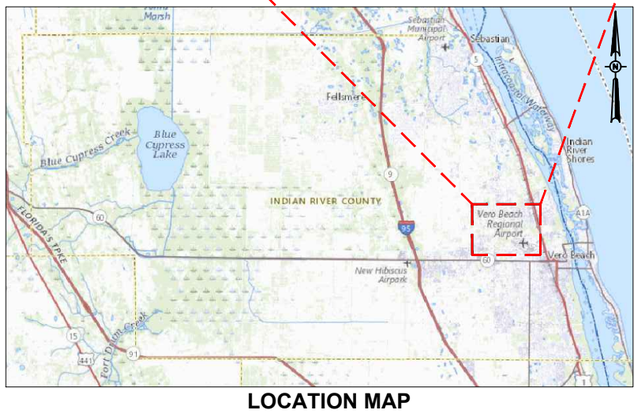
# APPENDIX J: VERTIPORT LAYOUT PLAN DRAWINGS SET

# VERTIPORT LAYOUT PLAN
## FOR
# VERO BEACH REGIONAL AIRPORT (VRB)
## VERO BEACH, INDIAN RIVER COUNTY, FLORIDA
## AUGUST 2024




| INDEX OF SHEETS | | |
|---|---|---|
| **SHEET NUMBER** | **SHEET TITLE** | **REVISIONS** |
| VP1 | COVER SHEET - VERTIPORT LAYOUT PLAN | |
| VP2 | VERTIPORT DATA SHEET | |
| VP3 | FUTURE VERTIPORT LAYOUT PLAN | |
| VP4 | APPROACH AND DEPARTURE SURFACE DRAWING - VERTIPORT WEST | |
| VP5 | APPROACH AND DEPARTURE SURFACE DRAWING - VERTIPORT SOUTH | |
| VP6 | VERTIPORT OBSTRUCTION DATA TABLES | |

VICINITY MAP




LOCATION MAP

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DISTRICT 4
3400 W. COMMERCIAL BLVD.
FT. LAUDERDALE, FL 33309
(954) 777-4130

Name — Date
Title

VERO BEACH REGIONAL AIRPORT

**VERO BEACH REGIONAL AIRPORT**
3400 CHEROKEE DRIVE
VERO BEACH, FLORIDA 32960
(772) 978-4930

Todd Scher — Date
Airport Director

Plans Prepared By:

This Airport Layout Plan (ALP) was prepared for the Vero Beach Regional Airport according to the applicable Advisory Circulars and the current version of FAA Standard Operating Procedure 2.0 ALP Review Checklist, and accurately depicts the airspace at the time of submittal. The ALP conforms with FAA design standards, except as noted.

Susan Zellers, P.E., AAE, ENV SP — Date
Senior Project Manager

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Engineering | Planning | Allied Services

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Sarasota, FL 34240
Phone: (941) 342-6321
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August 2024

I:\2022\25\20A00690\01\CAD\AIRPORT\SHEET\ALP\3D_COVER_VERTIPORT.DWG AUG 16, 2024 1:46PM ALEYA02176

**REFERENCES:**

1. LATITUDE AND LONGITUDE ARE BASED ON NORTH AMERICAN DATUM OF 1983 (NAD83) FLORIDA STATE PLANE, EAST ZONE.
2. VERTICAL CONTROL IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. ELEVATIONS SHOWN ARE IN "MEAN SEA LEVEL" (MSL) UNLESS NOTED OTHERWISE AND ARE NOT INTENDED FOR DESIGN PURPOSES.
4. ALL DIMENSIONS ARE IN US FEET UNLESS NOTED OTHERWISE.

**GENERAL NOTES:**

1. VRB AIRPORT LAYOUT PLAN SET WAS DEVELOPED AS A SEPARATE DOCUMENT.

**VERTIPORT DATA TABLE**

| ITEM | | FUTURE |
|---|---|---|
| AIRPORT IDENTIFIER | | VRB |
| REFERENCE VTOL AIRCRAFT MTOW | | 12,500 POUNDS OR LESS SMALL AIRCRAFT |
| MEAN MAX. TEMERATURE HOTTEST MONTH | | 88° F AUGUST |
| VERTIPORT ELEVATION (MSL) | | 23.0' |
| AIRPORT NAVIGATIONAL AIDS | | N/A |
| VERTIPORT REFERENCE POINT | LATITUDE | N27° 38' 53.27" |
| | LONGITUDE | W80° 25' 04.86" |
| CRITICAL DESIGN AIRCRAFT | | 12,500 POUNDS OR LESS SMALL AIRCRAFT |
| MAGNETIC VARIATION | | 7.28° W ± 0.34°, CHANGING 0.08° W PER YEAR |

**TAXIWAY DATA TABLE - FUTURE**

| FUTURE TAXIWAY | TAXIWAY WIDTH | TAXIWAY LIGHTING |
|---|---|---|
| TAXIWAY A | 20' | MITL |
| TAXIWAY B | 20' | MITL |
| TAXIWAY C | 20' | MITL |

**VERTIPORT DATA TABLE**

| ITEM | | WEST | SOUTH |
|---|---|---|---|
| | | FUTURE | FUTURE |
| REFERENCE VTOL AIRCRAFT | | 12,500 POUNDS OR LESS (SMALL AIRCRAFT) | |
| CRITICAL AIRCRAFT | | 12,500 POUNDS OR LESS (SMALL AIRCRAFT) | |
| PAVEMENT SURFACE TYPE | | ASPHALT | |
| PAVEMENT STRENGTH (WHEEL LOADING) | | 12,500 POUNDS | |
| SURFACE TREATMENT | | NON-GROOVED | |
| VERTIPORT COORDINATES (NAD 83) | LATITUDE | N27° 38' 53.27" | |
| | LONGITUDE | W80° 25' 04.96" | |
| VERTIPORT ELEVATION (MSL) | | 23.0' | |
| SAFETY AREA DIMENSIONS | | 150' DIAMETER | |
| TOUCHDOWN AND LIFTOFF AREA (TLOF) DIMENSIONS | | 50' DIAMETER | |
| FINAL APPROACH AND TAKEOFF AREA (FATO) DIMENSIONS | | 100' DIAMETER | |
| VERTIPORT LIGHTING TYPE | | NONE | |
| VERTIPORT MARKING TYPE | | STANDARD | |
| APPROACH AND DEPARTURE SURFACE SLOPE | | 8:1 SLOPE | 8:1 SLOPE |
| APPROACH AND DEPARTURE SURFACE DIMENSIONS | | 95' / 500' / 4,000' | 95' / 500' / 4,000' |
| VISIBILITY MINIMUMS | | VISUAL | VISUAL |
| VISUAL AND INSTRUMENT NAVAIDS | | NONE | NONE |

**SOURCES:**

| | |
|---|---|
| 1. MAGNETIC DECLINATION: | NATIONAL OCEANIC AND ATOMSPHERIC ADMINISTRATION (NOAA) NATIONAL GEOPHYSICAL DATA CENTER, DATED FEBRUARY 2024. |
| 2. VERTIPORT REFERENCE POINT: | CALCULATED USING CENTER OF VERTIPORT TOUCHDOWN AND LIFTOFF AREA (TLOF). |
| 3. BASE MAPPING: | NV5 GEOSPATIAL , DATED MAY 2023. |
| 4. AERIAL PHOTOGRAPHY: | NV5 GEOSPATIAL, DATED MAY 2023. |
| 5. MAPPING REFERENCES: | LATITUDE AND LONGITUDE ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM EAST ZONE NAD 1983. VERTICAL CONTROL REFERENCED TO NAVD 1988. |

**REFERENCES:**

1. VERTIPORT PREPARED USING DESIGN CRITERIA FROM FAA ENGINEERING BRIEF No. 105 "VERTIPORT DESIGN" LATEST UPDATE MARCH 13, 2023.


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VERO BEACH
REGIONAL AIRPORT
(VRB)

VERTIPORT LAYOUT PLAN
DRAWINGS SET

| DATE | REVISION DESCRIPTION | BY |
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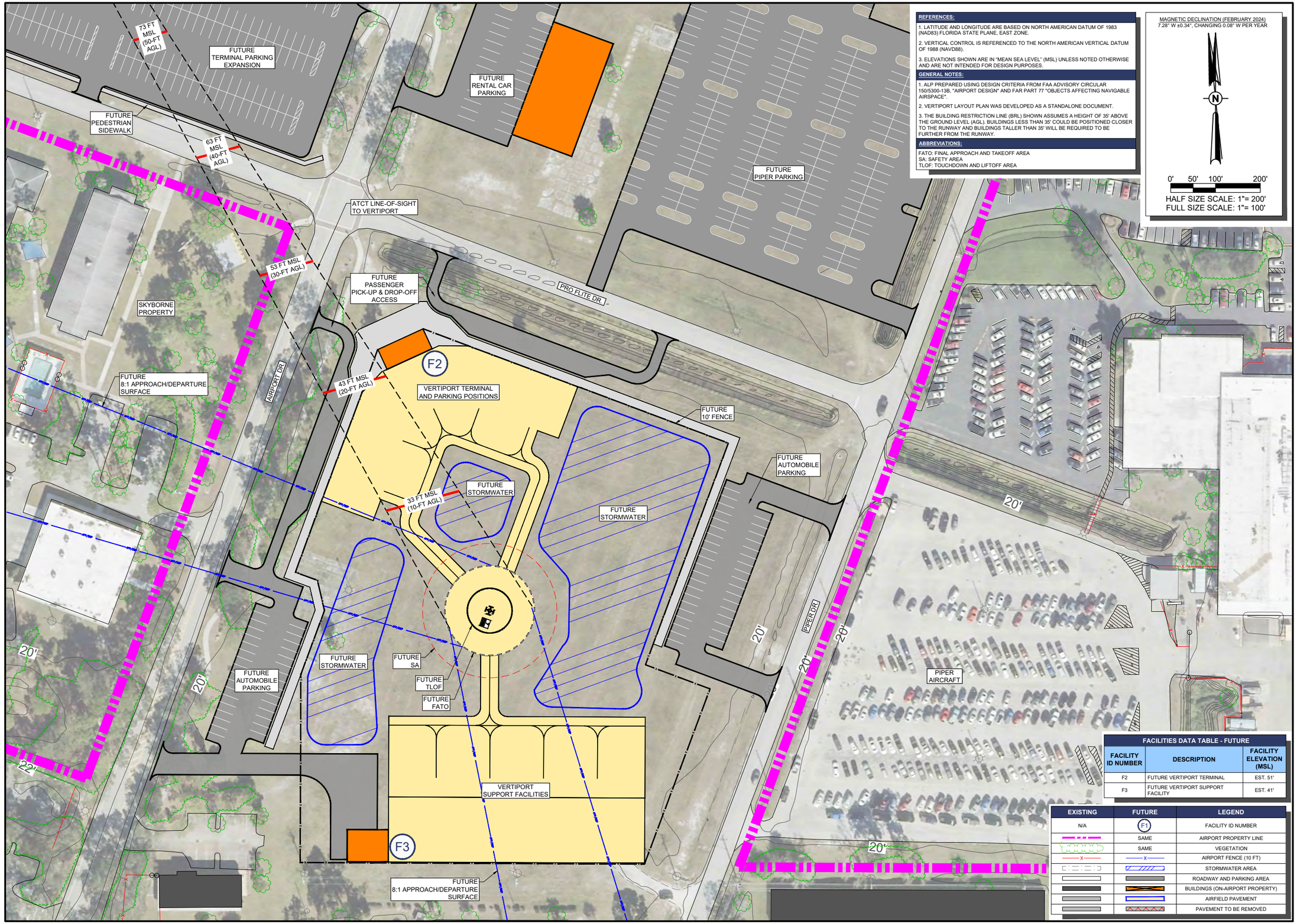
ISSUE: JUNE 2024
PROJECT NO: 20A0069W01
CAD FILE: 39_DATA_VERTIPORT.DWG
DESIGN BY: JA
DRAWN BY: JA
REVIEWED BY: SZ

SHEET TITLE

VERTIPORT
DATA SHEET

VP2

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# VERO BEACH REGIONAL AIRPORT (VRB)

AIRPORT LAYOUT PLAN DRAWINGS SET

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| ISSUE: | AUGUST 2024 |
| PROJECT NO: | 20A0069W01 |
| CAD FILE: 40_FUT VLP.DWG | |
| DESIGN BY: | JA |
| DRAWN BY: | JA |
| REVIEWED BY: | SZ |

SHEET TITLE

## FUTURE VERTIPORT LAYOUT PLAN

VP3

AUG 16, 2024 1:41 PM ALEXA02176
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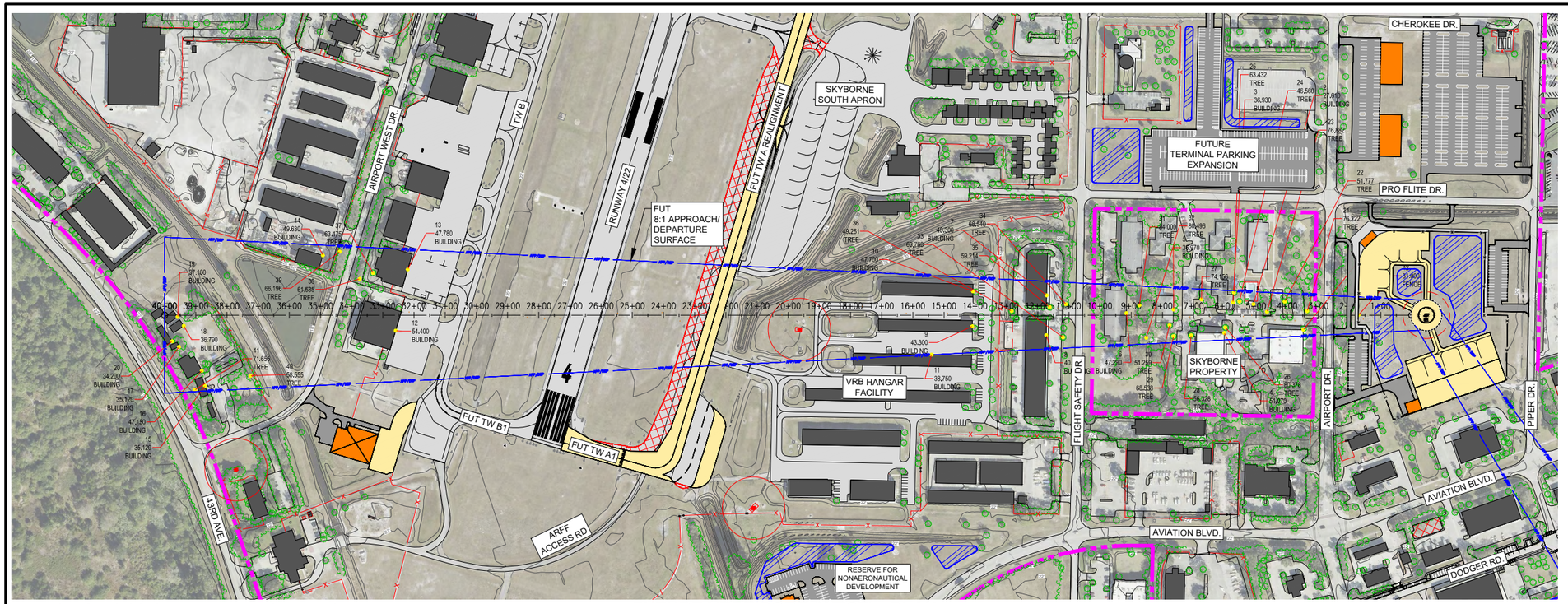
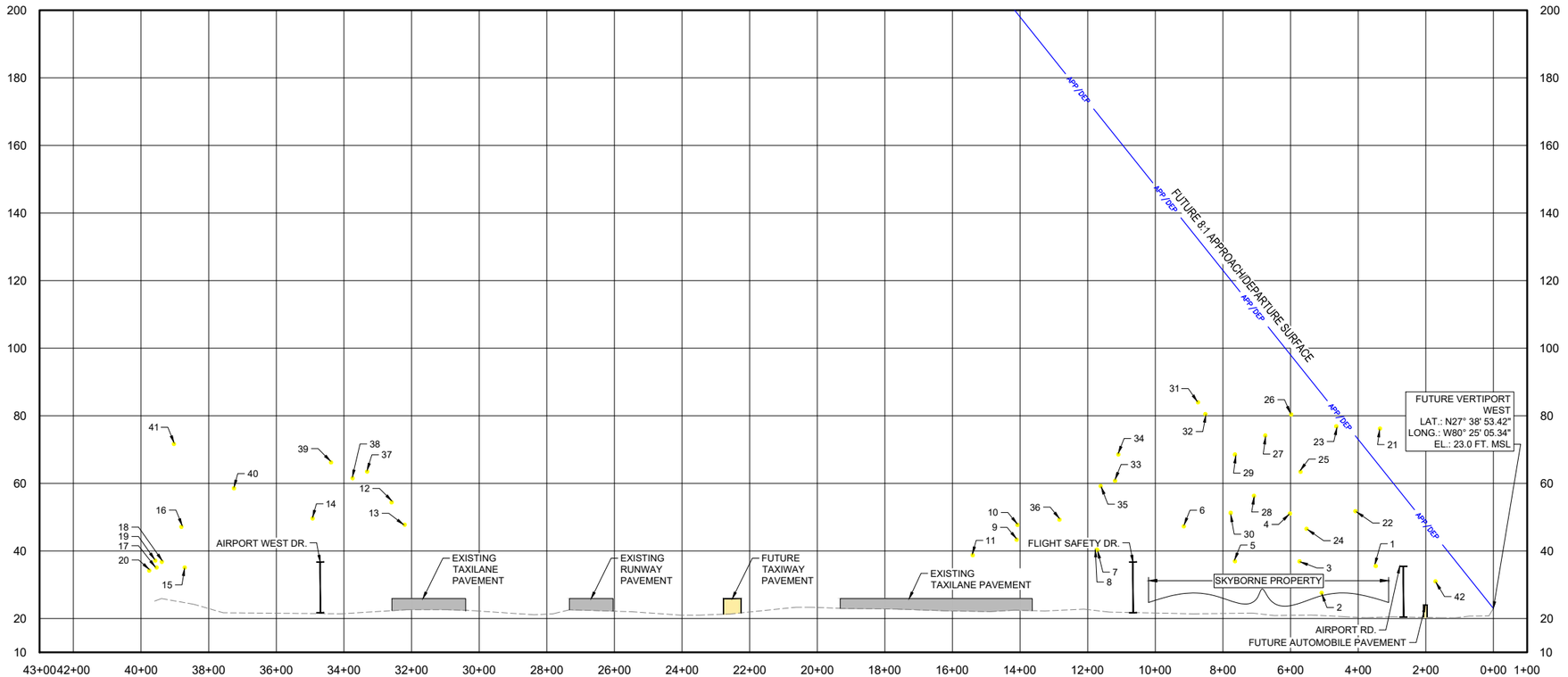



NOTE: OBJECTS SHOWN IN PLAN AND PROFILE VIEWS ARE WITHIN APPROACH/DEPARTURE SURFACE.

● OBJECTS WITHIN APPROACH/DEPARTURE SURFACE

## FUTURE VERTIPORT (WEST) - PLAN

## FUTURE VERTIPORT (WEST) - PROFILE




**REFERENCES:**

1. LATITUDE AND LONGITUDE ARE BASED ON NORTH AMERICAN DATUM OF 1983 (NAD83) FLORIDA STATE PLANE, EAST ZONE.
2. VERTICAL CONTROL IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. ELEVATIONS SHOWN ARE IN "MEAN SEA LEVEL" (MSL) UNLESS NOTED OTHERWISE AND ARE NOT INTENDED FOR DESIGN PURPOSES.

**GENERAL NOTES:**

1. ALP PREPARED USING DESIGN CRITERIA FROM FAA ADVISORY CIRCULAR 150/5300-13B, "AIRPORT DESIGN" AND FAR PART 77 "OBJECTS AFFECTING NAVIGABLE AIRSPACE".
2. VERTIPORT PREPARED USING DESIGN CRITERIA FROM FAA ENGINEERING BRIEF No. 105, "VERTIPORT DESIGN" LATEST UPDATED MARCH 13, 2023.
3. VRB AIRPORT LAYOUT PLAN SET WAS DEVELOPED AS A SEPARATE DOCUMENT.

**OBSTRUCTION NOTES:**

1. OBSTRUCTION SURVEY INFORMATION COLLECTED BY NV5 GEOSPATIAL IN MAY 2023.
2. PER FAR PART 77, "OBJECTS AFFECTING NAVIGABLE AIRSPACE", RAILWAYS CONSIDERED AS 23' OBJECTS, INTERSTATE HIGHWAYS AS 17', PUBLIC ROADS AS 15', PRIVATE ROADS AS 10', OR THE HIGHEST OBJECT USING THE ROAD.
3. TREES SHOWN AS OBJECTS MAY REPRESENT MULTIPLE TREES.
4. SEE OBSTRUCTION DATA TABLE SHEET VP6.

| EXISTING | FUTURE | LEGEND |
|---|---|---|
| | | AIRPORT PROPERTY LINE |
| | SAME | VEGETATION |
| | | AIRPORT FENCE (10 FT) |
| | | STORMWATER AREA |
| | | ROADS |
| | | BUILDINGS (ON-AIRPORT PROPERTY) |
| | | AIRFIELD PAVEMENT |
| | | PAVEMENT TO BE REMOVED |
| N/A | APP/DEP | VERTIPORT APPROACH/DEPARTURE SURFACE |

MAGNETIC DECLINATION (FEBRUARY 2024)
7.28° W ±0.34', CHANGING 0.08' W PER YEAR

HORIZONTAL SCALE 1"= 200'
VERTICAL SCALE 1"= 20'

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VERO BEACH REGIONAL AIRPORT (VRB)

AIRPORT LAYOUT PLAN DRAWINGS SET

| DATE | REVISION DESCRIPTION | BY |
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ISSUE: AUGUST 2024
PROJECT NO: 20A0069W01
CAD FILE: 41_IPASD_VERTIPORT W_F.DWG
DESIGN BY: JA
DRAWN BY: JA
REVIEWED BY: SZ

SHEET TITLE

IPASD - APPROACH AND DEPARTURE SURFACE - WEST

VP4

AUG 16, 2024 1:43 PM ALEXA02176
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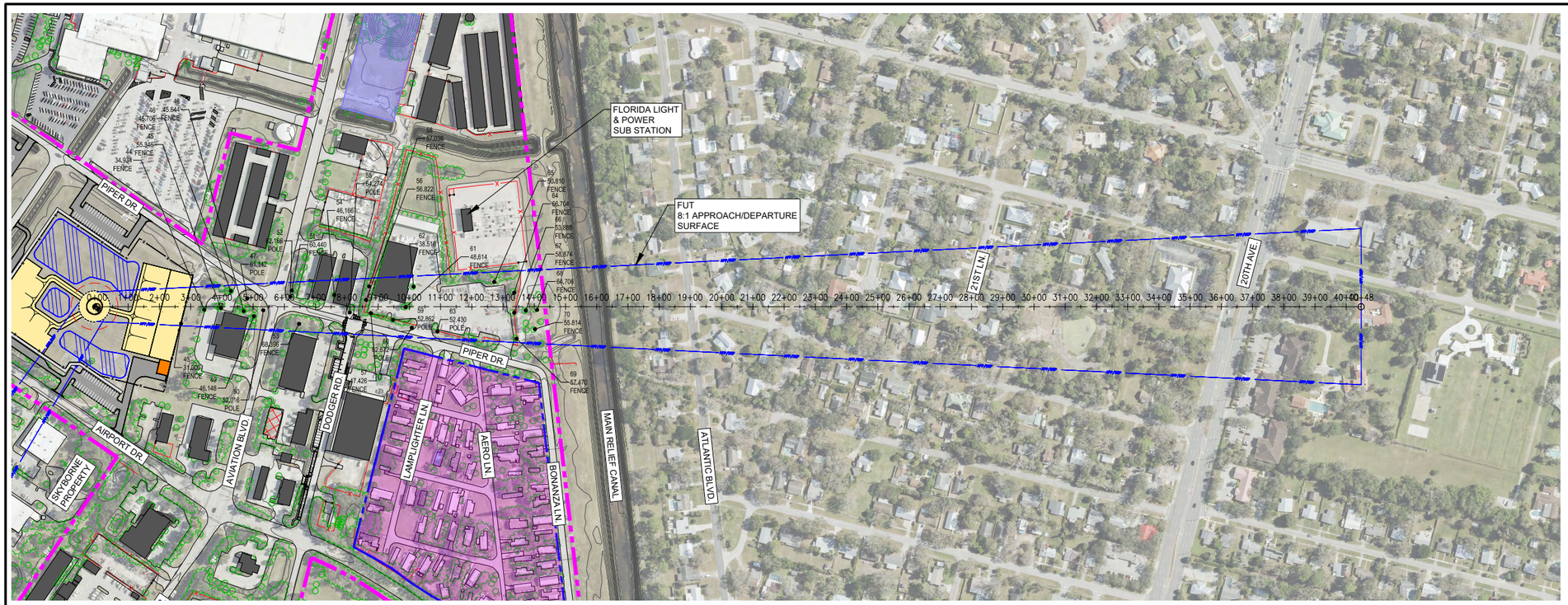
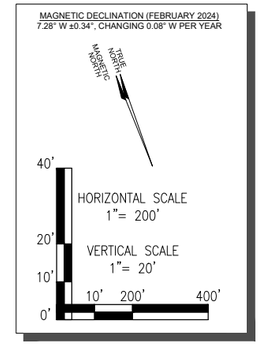


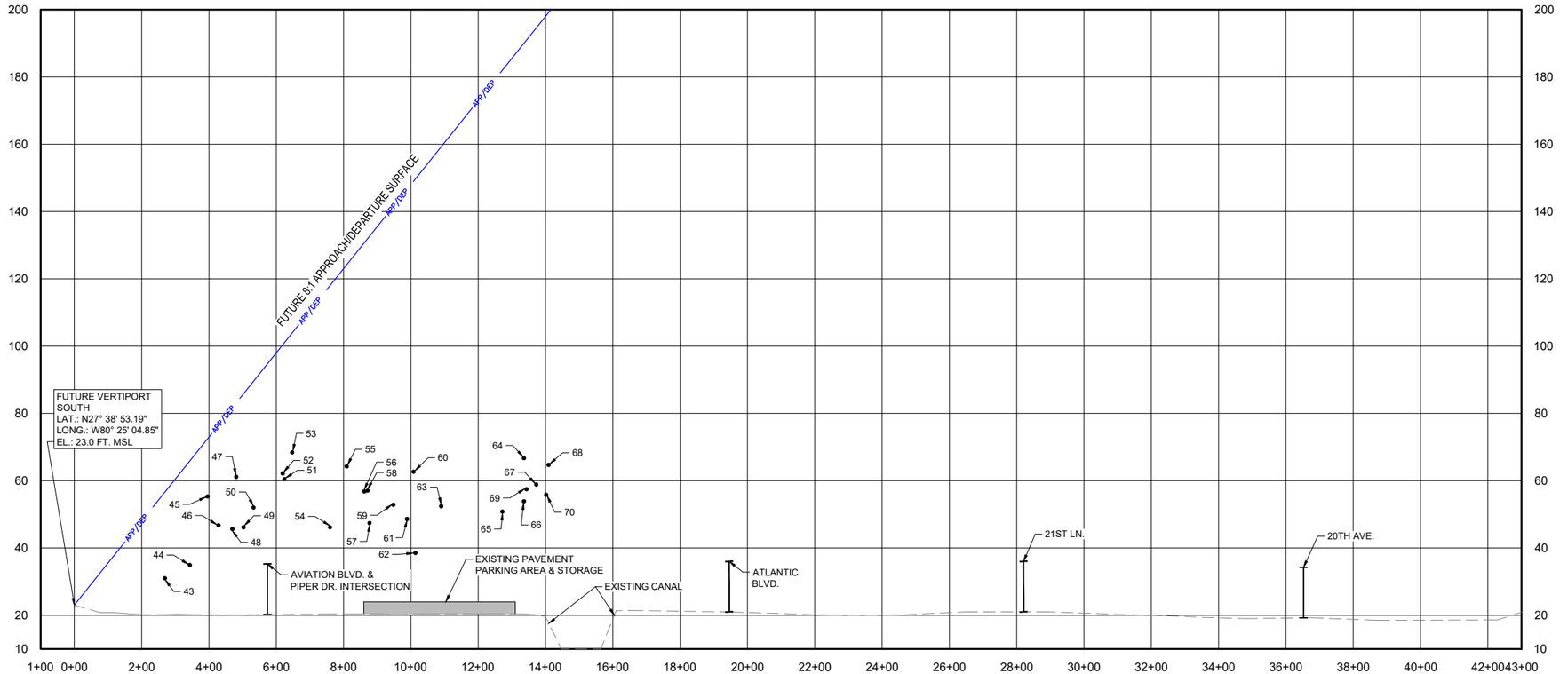




NOTE: OBJECTS SHOWN IN PLAN AND PROFILE VIEWS ARE WITHIN APPROACH/DEPARTURE SURFACE.

● OBJECTS WITHIN APPROACH/DEPARTURE SURFACE

## FUTURE VERTIPORT (SOUTH) - PLAN

## FUTURE VERTIPORT (SOUTH) - PROFILE

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2. VERTICAL CONTROL IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
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**GENERAL NOTES:**

1. ALP PREPARED USING DESIGN CRITERIA FROM FAA ADVISORY CIRCULAR 150/5300-13B, "AIRPORT DESIGN" AND FAR PART 77 "OBJECTS AFFECTING NAVIGABLE AIRSPACE".
2. VERTIPORT PREPARED USING DESIGN CRITERIA FROM FAA ENGINEERING BRIEF No. 105, "VERTIPORT DESIGN" LATEST UPDATED MARCH 13, 2023.
3. VRB AIRPORT LAYOUT PLAN SET WAS DEVELOPED AS A SEPARATE DOCUMENT.

**OBSTRUCTION NOTES:**

1. OBSTRUCTION SURVEY INFORMATION COLLECTED BY NV5 GEOSPATIAL IN MAY 2023.
2. PER FAR PART 77, "OBJECTS AFFECTING NAVIGABLE AIRSPACE", RAILWAYS CONSIDERED AS 23' OBJECTS, INTERSTATE HIGHWAYS AS 17', PUBLIC ROADS AS 15', PRIVATE ROADS AS 10', OR THE HIGHEST OBJECT USING THE ROAD.
3. TREES SHOWN AS OBJECTS MAY REPRESENT MULTIPLE TREES.
4. SEE OBSTRUCTION DATA TABLE SHEET VP6.

| EXISTING | FUTURE | LEGEND |
|---|---|---|
| | | AIRPORT PROPERTY LINE |
| | SAME | VEGETATION |
| | | AIRPORT FENCE (10 FT) |
| | | STORMWATER AREA |
| | | ROADS |
| | | BUILDINGS (ON-AIRPORT PROPERTY) |
| | | AIRFIELD PAVEMENT |
| | | PAVEMENT TO BE REMOVED |
| N/A | APP/DEP | VERTIPORT APPROACH/DEPARTURE SURFACE |


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VERO BEACH REGIONAL AIRPORT (VRB)

AIRPORT LAYOUT PLAN DRAWINGS SET

| DATE | REVISION DESCRIPTION | BY |
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ISSUE: AUGUST 2024
PROJECT NO: 20A0069W01
CAD FILE: 42_IPASD_VERTIPORT S_F.DWG
DESIGN BY: JA
DRAWN BY: JA
REVIEWED BY: SZ

SHEET TITLE

IPASD - APPROACH AND DEPARTURE SURFACE - SOUTH

VP5

AUG 16, 2024 1:44 PM ALEXA02176
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## VERTIPORT (WEST) OBSTRUCTION DATA TABLE

| OBJECT DATA | | | FUTURE 8:1 APPROACH/DEPARTURE SURFACE | | PROPOSED DISPOSITION |
|---|---|---|---|---|---|
| OBJECT NUMBER | OBJECT DESCRIPTION | OBJECT ELEVATION (MSL) | SURFACE ELEVATION (MSL) | SURFACE CLEARANCE (-) OR PENETRATION (+) | |
| 1 | BUILDING | 36 | 67 | -31 | NO ACTION |
| 2 | BUILDING | 28 | 86 | -59 | NO ACTION |
| 3 | BUILDING | 37 | 95 | -58 | NO ACTION |
| 4 | BUILDING | 51 | 98 | -47 | NO ACTION |
| 5 | BUILDING | 37 | 119 | -82 | NO ACTION |
| 6 | BUILDING | 47 | 137 | -90 | NO ACTION |
| **7** | BUILDING | 40 | 169 | -129 | NO ACTION |
| **8** | BUILDING | 40 | 170 | -129 | NO ACTION |
| **9** | BUILDING | 43 | 199 | -156 | NO ACTION |
| **10** | BUILDING | 48 | 199 | -151 | NO ACTION |
| **11** | BUILDING | 39 | 216 | -177 | NO ACTION |
| **12** | BUILDING | 54 | 430 | -376 | NO ACTION |
| **13** | BUILDING | 48 | 426 | -378 | NO ACTION |
| **14** | BUILDING | 50 | 460 | -410 | NO ACTION |
| **15** | BUILDING | 35 | 507 | -472 | NO ACTION |
| **16** | BUILDING | 47 | 508 | -461 | NO ACTION |
| **17** | BUILDING | 35 | 517 | -482 | NO ACTION |
| **18** | BUILDING | 37 | 515 | -479 | NO ACTION |
| **19** | BUILDING | 37 | 518 | -481 | NO ACTION |
| **20** | BUILDING | 34 | 520 | -486 | NO ACTION |
| 21 | TREE | 76 | 65 | 11 | TRIM/REMOVE |
| 22 | TREE | 52 | 74 | -22 | MONITOR GROWTH |
| 23 | TREE | 77 | 81 | -4 | MONITOR GROWTH |
| 24 | TREE | 47 | 92 | -46 | MONITOR GROWTH |
| 25 | TREE | 63 | 94 | -31 | MONITOR GROWTH |
| 26 | TREE | 80 | 96 | -17 | MONITOR GROWTH |
| 27 | TREE | 74 | 107 | -33 | MONITOR GROWTH |
| 28 | TREE | 56 | 112 | -55 | MONITOR GROWTH |
| 29 | TREE | 69 | 119 | -50 | MONITOR GROWTH |
| 30 | TREE | 51 | 120 | -69 | MONITOR GROWTH |
| 31 | TREE | 84 | 132 | -48 | MONITOR GROWTH |
| 32 | TREE | 80 | 129 | -49 | MONITOR GROWTH |
| **33** | TREE | 61 | 163 | -102 | NO ACTION |
| **34** | TREE | 69 | 162 | -93 | MONITOR GROWTH |
| **35** | TREE | 59 | 168 | -109 | NO ACTION |
| **36** | TREE | 49 | 183 | -134 | NO ACTION |
| **37** | TREE | 63 | 439 | -376 | NO ACTION |
| **38** | TREE | 62 | 445 | -383 | NO ACTION |
| **39** | TREE | 66 | 453 | -387 | NO ACTION |
| **40** | TREE | 59 | 489 | -430 | NO ACTION |
| **41** | TREE | 72 | 511 | -439 | NO ACTION |
| **42** | FENCE | 31 | 44 | -13 | NO ACTION |

## VERTIPORT (SOUTH) OBSTRUCTION DATA TABLE

| OBJECT DATA | | | FUTURE 8:1 APPROACH/DEPARTURE SURFACE | | PROPOSED DISPOSITION |
|---|---|---|---|---|---|
| OBJECT NUMBER | OBJECT DESCRIPTION | OBJECT ELEVATION (MSL) | SURFACE ELEVATION (MSL) | SURFACE CLEARANCE (-) OR PENETRATION (+) | |
| **43** | FENCE | 31 | 57 | -26 | NO ACTION |
| **44** | TREE | 35 | 66 | -31 | MONITOR GROWTH |
| **45** | TREE | 55 | 72 | -17 | MONITOR GROWTH |
| **46** | TREE | 47 | 77 | -30 | MONITOR GROWTH |
| **47** | POLE | 61 | 83 | -22 | NO ACTION |
| **48** | TREE | 46 | 82 | -36 | MONITOR GROWTH |
| **49** | TREE | 46 | 86 | -40 | MONITOR GROWTH |
| **50** | POLE | 52 | 90 | -38 | NO ACTION |
| **51** | TREE | 60 | 101 | -41 | MONITOR GROWTH |
| **52** | POLE | 62 | 100 | -38 | NO ACTION |
| **53** | TREE | 68 | 104 | -35 | MONITOR GROWTH |
| **54** | TREE | 46 | 118 | -72 | MONITOR GROWTH |
| **55** | POLE | 64 | 124 | -60 | NO ACTION |
| **56** | TREE | 57 | 131 | -74 | MONITOR GROWTH |
| **57** | TREE | 47 | 133 | -85 | MONITOR GROWTH |
| **58** | TREE | 57 | 132 | -75 | MONITOR GROWTH |
| **59** | POLE | 53 | 141 | -89 | NO ACTION |
| **60** | POLE | 63 | 149 | -86 | NO ACTION |
| **61** | TREE | 49 | 147 | -98 | MONITOR GROWTH |
| **62** | TREE | 39 | 150 | -111 | NO ACTION |
| **63** | POLE | 52 | 159 | -107 | NO ACTION |
| **64** | TREE | 67 | 190 | -123 | NO ACTION |
| **65** | TREE | 51 | 182 | -131 | NO ACTION |
| **66** | TREE | 54 | 190 | -136 | NO ACTION |
| **67** | TREE | 59 | 195 | -136 | NO ACTION |
| **68** | TREE | 65 | 199 | -134 | NO ACTION |
| **69** | TREE | 57 | 191 | -133 | NO ACTION |
| **70** | TREE | 56 | 198 | -142 | NO ACTION |

**NOTES:**

1. OBJECTS THAT ARE IN BOLD TEXT ARE LOCATED ON-AIRPORT PROPERTY. ALL OTHER OBJECTS ARE LOCATED OFF-AIRPORT PROPERTY.
2. SELECTED OBJECTS FOR THE OBSTRUCTION ANALYSIS ARE OBJECTS THAT ARE LOCATED WITHIN THE APPROACH/DEPARTURE SURFACE BOUNDARY. THEN, OBJECTS ARE FURTHER ANALYZED AS CLEARANCE OR PENETRATION ACCORDING TO THE SURFACE.
3. REFER TO THE FUTURE VERTIPORT PLAN AND PROFILES ON SHEETS VP4 AND VP4 FOR APPROACH/DEPARTURE SURFACE OBSTRUCTIONS.
4. OBSTRUCTION SURVEY COMPLETED IN MAY 2023 AND COMPLIES TO FAA AC 150/5300-18B.
5. CLEARANCE OR PENETRATION MAY NOT MATCH OBJECT ELEVATION MINUS SURFACE ELEVATION DUE TO ROUNDING.
6. OBJECTS WITH A NEGATIVE NUMBER (-) ARE BELOW OR CLEAR OF THE APPROACH/DEPARTURE SURFACE AND OBJECTS WITH A POSITIVE NUMBER (+) ARE ABOVE OR PENETRATE OF THE APPROACH/DEPARTURE SURFACE.
7. OBJECTS THAT ARE BELOW THE APPROACH/DEPARTURE SURFACE BY 100 FEET OR GREATER HAVE PROPOSED DISPOSITION OF "NO ACTION".
8. EXISTING AND FUTURE ROAD ELEVATIONS ARE TRAVERSE WAY ELEVATION PLUS TRAVERSE WAY ADJUSTMENTS (23' FOR RAILWAYS, 17' FOR INTERSTATE HIGHWAYS, 15' FOR OTHER PUBLIC ROADS, OR 10' FOR PRIVATE ROADS).


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AIRPORT LAYOUT PLAN DRAWINGS SET

| DATE | REVISION DESCRIPTION | BY |
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VP6