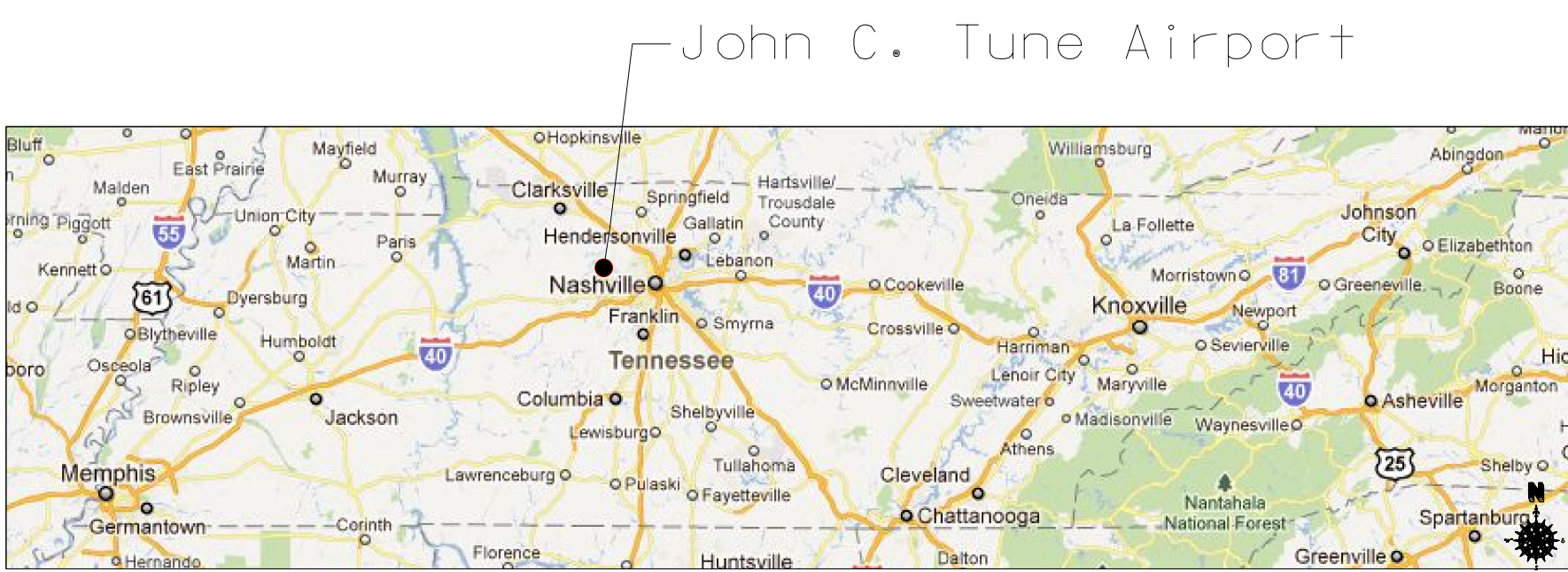


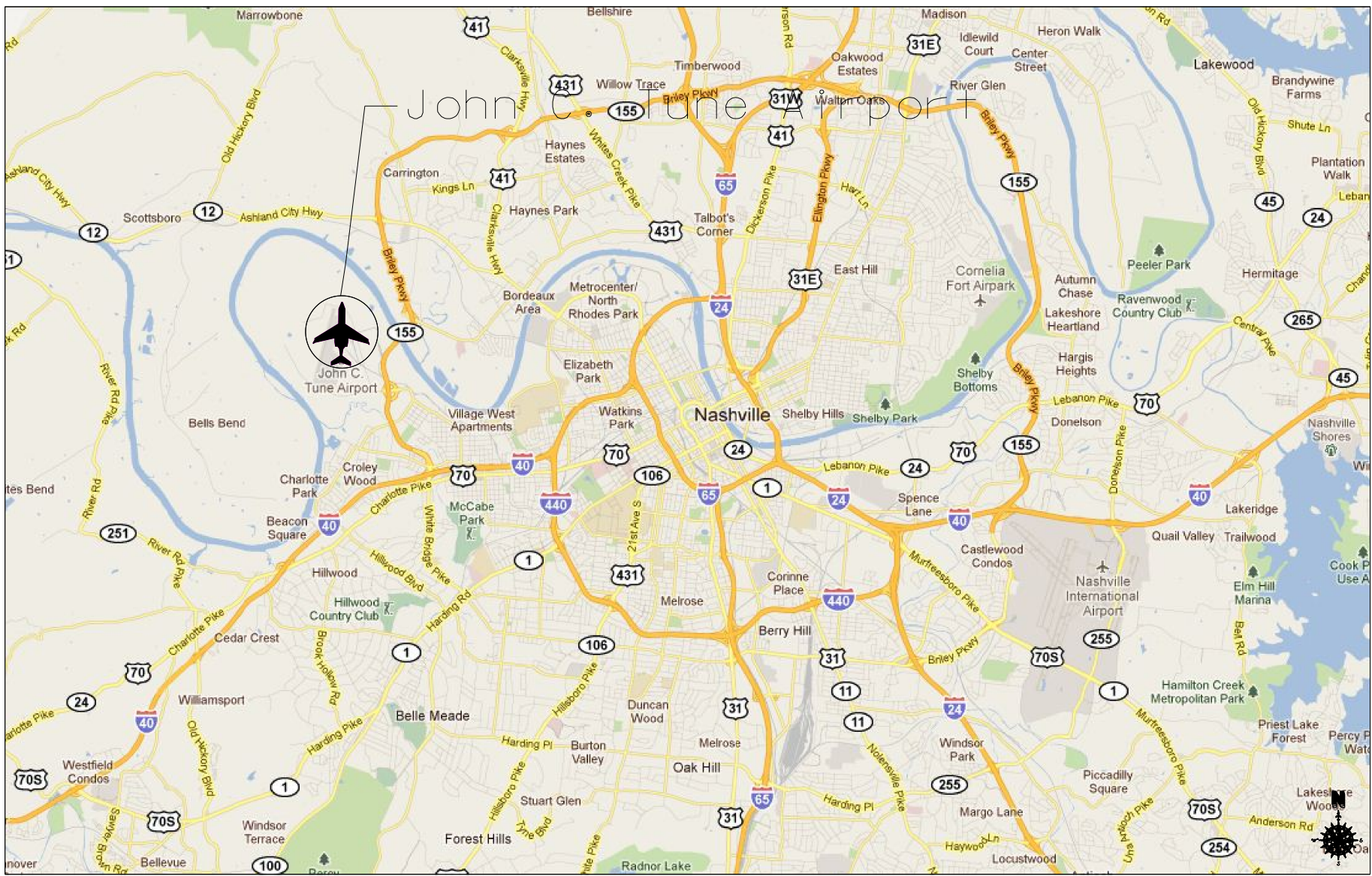
# AIRPORT LAYOUT PLAN UPDATE

## JOHN C. TUNE AIRPORT Nashville, Tennessee

FINAL DRAFT



LOCATION MAP



VICINITY MAP

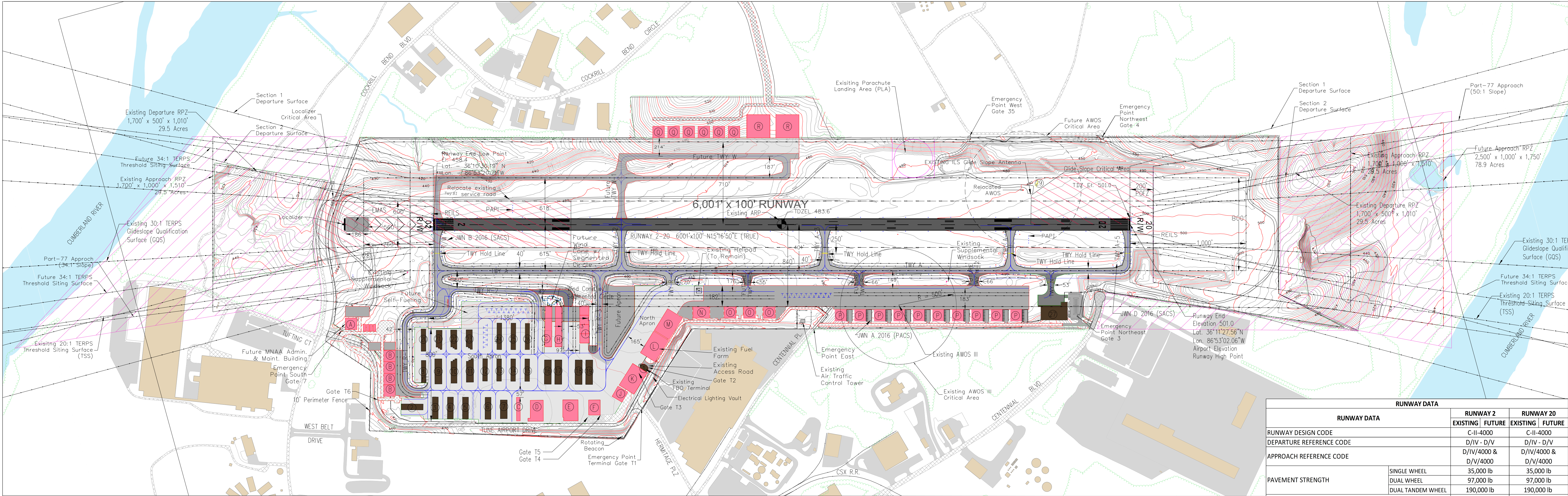


### Index of Drawings

- 1 – Title Sheet
- 2 – Airport Layout Drawing
- 3 – Terminal Area Plan
- 4 – Inner Portion of the Approach Surface Runway 2–20
- 5 – Part 77 Airspace Surfaces
- 6 – Part 77 Airspace Surfaces Continued
- 7 – Land Use Plan
- 8 – Airport Property Map

| REVISIONS  |                                         |
|------------|-----------------------------------------|
| 11/18/2019 | ALP UPDATE APPROVAL                     |
| 06/16/2022 | REVISED FUTURE AERONAUTICAL DEVELOPMENT |
| 06/16/2022 | ADDED FUTURE AIWOS AND MOS              |
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|            |                                         |

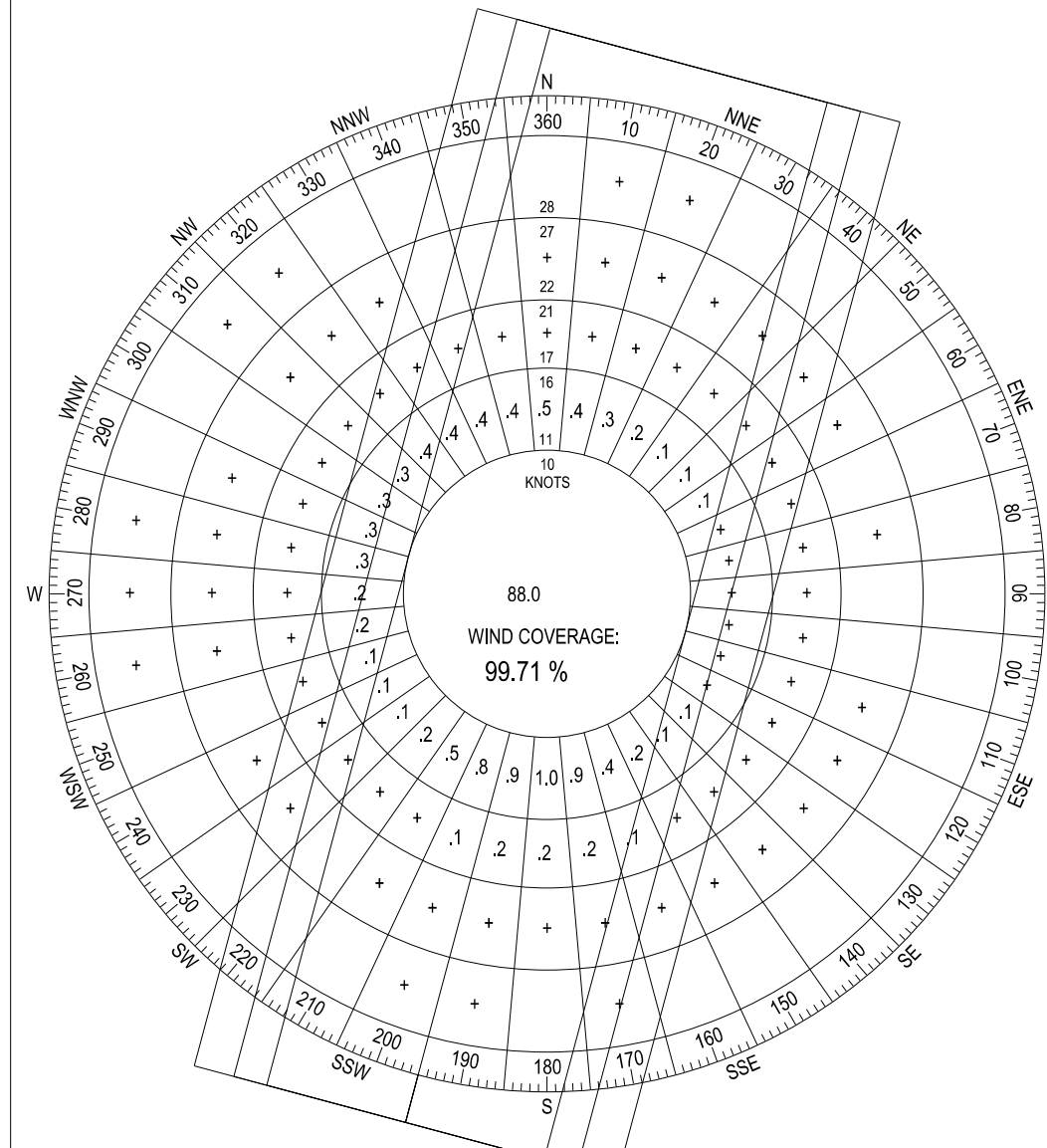




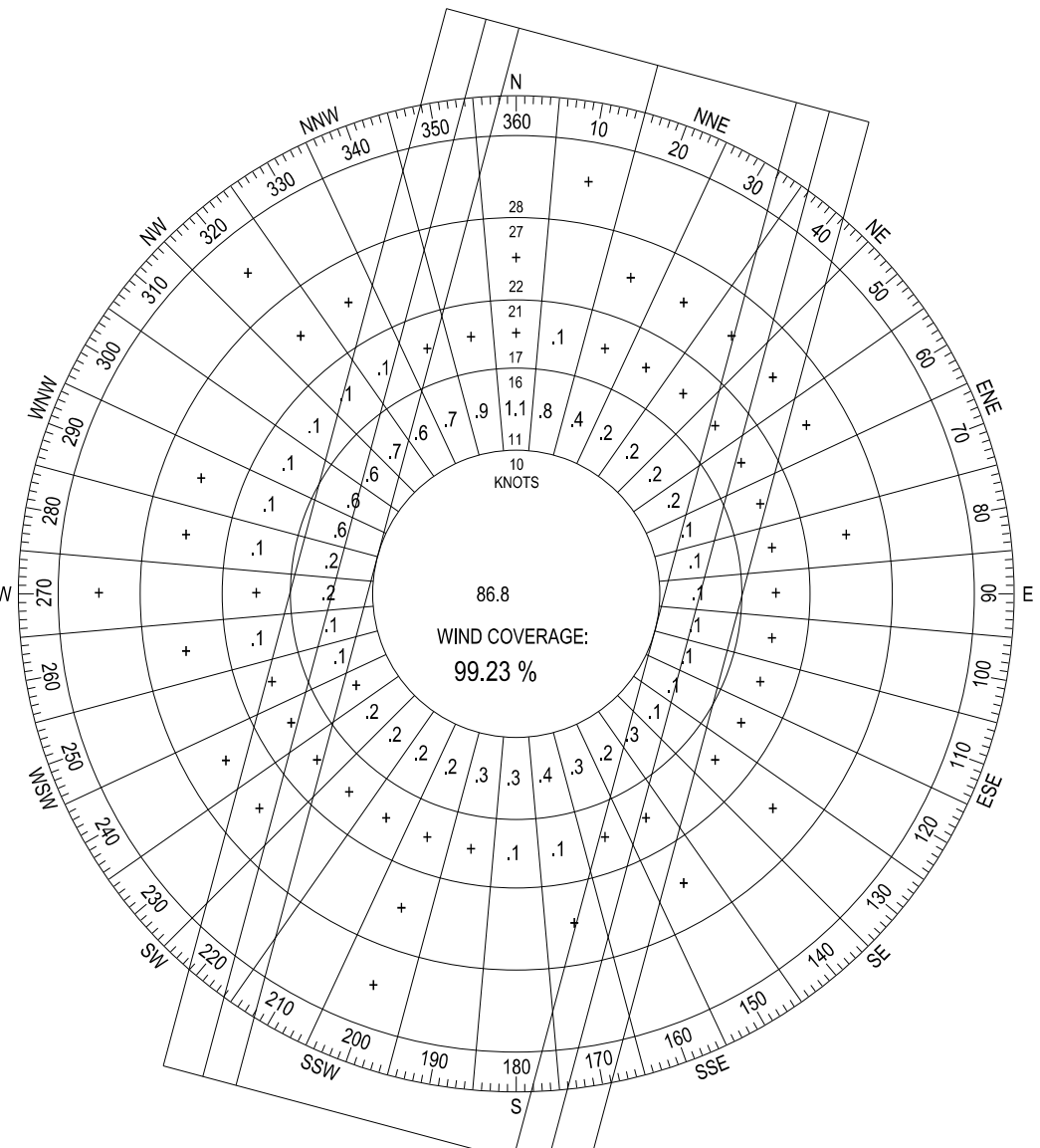
| MODIFICATION OF DESIGN STANDARDS |                                    |                      |                      |                                |
|----------------------------------|------------------------------------|----------------------|----------------------|--------------------------------|
| NO.                              | STANDARD MODIFIED                  | FAA STANDARD         | EXISTING CONDITION   | PROPOSED ACTION                |
| JWN-2022-28554                   | 18V300-13B, CHS, PAR 3.12, PG 3-42 | ROFA IS A CLEAR AREA | ROFA IS A CLEAR AREA | AWOS TOWER LOCATED WITHIN ROFA |
| 14/05/2022                       |                                    |                      |                      |                                |

| DECLARED DISTANCES - EXISTING & FUTURE |        |        |        |        |
|----------------------------------------|--------|--------|--------|--------|
| RUNWAY                                 | TORA   | TODA   | ASDA   | LDA    |
| RUNWAY 2                               | 6,001' | 6,001' | 6,001' | 6,001' |
| RUNWAY 20                              | 6,001' | 6,001' | 6,001' | 6,001' |

| 2016 PACS & SACS |                  |                  |           |                  |             |
|------------------|------------------|------------------|-----------|------------------|-------------|
| Designation      | Latitude         | Longitude        | Elevation | Ellipsoid Height | Description |
| JWN A            | N36°11'07.12678" | W86°52'59.07638" | 150.759   | 121.352          | PACS/CBN    |
| JWN B            | N36°10'30.95100" | W86°53'18.74500" | 138.942   | 109.552          | SACS/CBN    |
| JWN D            | N36°11'25.63399" | W86°52'58.49114" | 150.025   | 120.612          | SACS        |



STATION: 732270 NASHVILLE INTERNATIONAL AIRPORT  
SOURCE: NOAA NCDC  
PERIOD: 2006-2016  
ALL WEATHER OBSERVATIONS: 127,748  
IFR OBSERVATIONS: 11,040  
NOTE: ONE FULL YEAR OF WIND DATA AT JWN WAS UNAVAILABLE, BNA DATA UTILIZED



| IFR WIND ROSE       |             |
|---------------------|-------------|
| CROSSWIND COMPONENT | RUNWAY 2-20 |
| 10.5 KNOTS (12 MPH) | 95.17       |
| 13 KNOTS (14 MPH)   | 97.42       |
| 16 KNOTS (18 MPH)   | 99.23       |

| AIRPORT DATA                     |                             |                             |
|----------------------------------|-----------------------------|-----------------------------|
| AIRPORT DATA                     | EXISTING                    | FUTURE                      |
| AIRPORT REFERENCE CODE (ARCC)    | C-II                        | C-II                        |
| MEAN MAX. TEMP OF HOTTEST MONTH  | 89.3                        | N/A                         |
| AIRPORT ELEVATION (MSL)          | 501.0'                      | 501.0'                      |
| AIRPORT TERMINAL NAVAIDS         | BEACON, GPS, ILS            |                             |
| AIRPORT REFERENCE POINT (NAD 83) |                             |                             |
| LATITUDE                         | 36-10-58.8786N              | 36-10-58.8786N              |
| LONGITUDE                        | 086-53-11.3832W             | 086-53-11.3832W             |
| MISCELLANEOUS FACILITIES         |                             |                             |
| CRITICAL AIRCRAFT                | WINGSPAN: 77.82'            | WINGSPAN: 77.82'            |
|                                  | UNDERCARRIAGE WIDTH: 20.41' | UNDERCARRIAGE WIDTH: 20.41' |
|                                  | TAIL HEIGHT: 24.5'          | TAIL HEIGHT: 24.5'          |
| NPIAS SERVICE LEVEL              | RELIEVER                    | RELIEVER                    |
| STATE SERVICE LEVEL              | REGIONAL SERVICE            | REGIONAL SERVICE            |

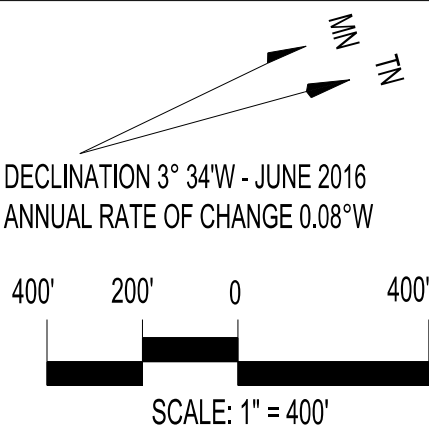
| Notes |                                                      |
|-------|------------------------------------------------------|
| 1     | Existing FBO terminal will be removed for new hanger |
| 2     | Fuel Farm to be removed                              |
| 3     | Fence line follows property line                     |

| EXISTING FACILITIES |                           |                |             |
|---------------------|---------------------------|----------------|-------------|
| #                   | FACILITY NAME             | TOP EL. (AMSL) | MNAA BLDG # |
| 1                   | FBO TERMINAL BUILDING     | 492'           | 4110        |
| 2                   | T-HANGAR                  | 498'           | 4100        |
| 3                   | T-HANGAR                  | 495'           | 4110        |
| 4                   | T-HANGAR                  | 493'           | 4120        |
| 5                   | T-HANGAR                  | 490'           | 4130        |
| 6                   | T-HANGAR                  | 493'           | 4140        |
| 7                   | BOX HANGAR                | 498'           | 4150        |
| 8                   | SHADE PORT                | 485'           | 4370        |
| 9                   | T-HANGAR                  | 493'           | 4360        |
| 10                  | T-HANGAR                  | 490'           | 4350        |
| 11                  | T-HANGAR                  | 493'           | 4340        |
| 12                  | T-HANGAR                  | 490'           | 4330        |
| 13                  | T-HANGAR                  | 490'           | 4320        |
| 14                  | T-HANGAR                  | 490'           | 4310        |
| 15                  | T-HANGAR                  | 490'           | 4300        |
| 16                  | BOX HANGAR                | 495'           | 4300        |
| 17                  | BOX HANGAR                | 495'           | 4520        |
| 18                  | BOX HANGAR                | 495'           | 4510        |
| 19                  | BOX HANGAR                | 495'           | 4500        |
| 20                  | SHADE PORT                | 485'           | 4470        |
| 21                  | T-HANGAR                  | 490'           | 4460        |
| 22                  | T-HANGAR                  | 483'           | 4450        |
| 23                  | T-HANGAR                  | 487'           | 4440        |
| 24                  | T-HANGAR                  | 485'           | 4420        |
| 25                  | T-HANGAR                  | 485'           | 4410        |
| 26                  | T-HANGAR                  | 485'           | 4400        |
| 27                  | STATE HANGAR              | 524'           | 7335        |
| 28                  | LOCALIZER BUILDING        | 459'           | 4101X       |
| 29                  | GLIDESLOPE SHELTER        | 497'           | 4020        |
| 30                  | AIR TRAFFIC CONTROL TOWER | 589'           | 4020        |

| Legend                                 |           |          |
|----------------------------------------|-----------|----------|
| Description                            | Existing  | Ultimate |
| Runway Centerline                      | —         | —        |
| Runway Safety Area (RSA)               | — RSA     | —        |
| Runway Object Free Area (ROFA)         | — ROFA    | —        |
| Runway Protection Zone (RPZ)           | — RPZ     | — (RPZ)  |
| Taxiway Object Free Zone (TOFA)        | — TOFA    | — (TOFA) |
| Building Restriction Line (BRL)        | — 30' BRL | —        |
| Localizer / Glideslope Critical Area   | —         | —        |
| AWOS Critical Area                     | —         | —        |
| Threshold Lights                       | —         | —        |
| REILS                                  | —         | —        |
| PAPI                                   | —         | —        |
| Runway/Taxiway Light                   | —         | —        |
| Windsock                               | —         | —        |
| MALSAR                                 | —         | —        |
| Rotating Beacon                        | —         | —        |
| Airport Reference Point                | —         | —        |
| Paved Runway Surface                   | —         | —        |
| Paved Taxiway Surface                  | —         | —        |
| Paved Apron Surface                    | —         | —        |
| Roads                                  | —         | —        |
| Parking                                | —         | —        |
| Airport Buildings                      | —         | —        |
| Other Buildings                        | —         | —        |
| Building Identification Number         | — ①       | — ①      |
| Airport Property Line / Easements      | —         | —        |
| Other Property Lines                   | —         | —        |
| TERPS Glideslope Qualification Surface | — GGS     | —        |
| Railroad                               | —         | —        |
| Fence                                  | —         | —        |
| Tree Line                              | —         | —        |
| Water/Wetland                          | —         | —        |
| Ground Elevations Contours             | — 800'    | —        |
| Surface Elevation                      | —         | —        |
| Aviation Easement                      | —         | —        |
| Electrical/Telephone Pole              | —         | —        |
| Survey Monument                        | —         | —        |
| EMAS                                   | —         | —        |

| RUNWAY DATA                                          |                         |                                   |                                   |
|------------------------------------------------------|-------------------------|-----------------------------------|-----------------------------------|
| RUNWAY DATA                                          |                         | RUNWAY 2<br>EXISTING              | RUNWAY 20<br>EXISTING             |
| RUNWAY DESIGN CODE                                   |                         | C-II-4000                         | C-II-4000                         |
| DEPARTURE REFERENCE CODE                             |                         | D/IV - D/V                        | D/IV - D/V                        |
| APPROACH REFERENCE CODE                              |                         | D/IV/4000 & D/V/4000              | D/IV/4000 & D/V/4000              |
| PAVEMENT STRENGTH                                    | SINGLE WHEEL            | 35,000 lb                         | 35,000 lb                         |
|                                                      | DUAL WHEEL              | 97,000 lb                         | 97,000 lb                         |
|                                                      | DUAL TANDUM WHEEL       | 190,000 lb                        | 190,000 lb                        |
| PAVEMENT TYPE                                        |                         | ASPHALT                           | ASPHALT                           |
| PAVEMENT STRENGTH BY PCN                             |                         | 23/F/A/X/T                        | 23/F/A/X/T                        |
| EFFECTIVE GRADIENT                                   |                         | 0.70%                             | -0.70%                            |
| % WIND COVERAGE                                      | 10.5 KNOTS              | 53.24%                            | 62.26%                            |
|                                                      | 13.0 KNOTS              | 54.05%                            | 62.91%                            |
|                                                      | 16.0 KNOTS              | 54.65%                            | 63.41%                            |
| RUNWAY LENGTH                                        |                         | 6,001'                            | 6,001'                            |
| RUNWAY WIDTH                                         |                         | 100'                              | 100'                              |
| EMAS WIDTH                                           |                         | 121'                              | N/A                               |
| EMAS LENGTH                                          |                         | 186'                              | N/A                               |
| DISPLACED THRESHOLD                                  |                         | N/A                               | N/A                               |
| DISPLACED THRESHOLD ELEVATION                        |                         | N/A                               | N/A                               |
| RUNWAY SAFETY AREA (RSA)                             | BEYOND RUNWAY END WIDTH | 1000'                             | 600' <sup>1</sup>                 |
|                                                      |                         | 400' <sup>2</sup>                 | 400' <sup>2</sup>                 |
| RUNWAY END COORDINATES                               |                         | 36-10-30.1876N<br>086-53-20.7097W | 36-11-27.5688N<br>086-53-02.0598W |
| RUNWAY END ELEVATIONS (MSL)                          |                         | 458.6'                            | 501.0'                            |
| RUNWAY LIGHTING                                      |                         | MIRL                              | MIRL                              |
| DEPARTURE RUNWAY PROTECTION ZONE (RPZ)               | INNER WIDTH             | 500                               | 500                               |
|                                                      | OUTER WIDTH             | 1,010                             | 1,010                             |
|                                                      | LENGTH                  | 1,700                             | 1,700                             |
| APPROACH RUNWAY PROTECTION ZONE (RPZ)                | INNER WIDTH             | 1,000                             | 1,000                             |
|                                                      | OUTER WIDTH             | 1,510                             | 1,510                             |
|                                                      | LENGTH                  | 1,700                             | 1,700                             |
| RUNWAY MARKING                                       |                         | NON-PRECISION                     | PRECISION                         |
| FAR PART 77 APPROACH CATEGORY                        |                         | 34:1                              | 50:1 / 40:1                       |
| FAR PART 77 APPROACH TYPE                            |                         | C-NP                              | PIR                               |
| APPROACH VISIBILITY MINIMUMS                         |                         | 7/8 MILE                          | 7/8 MILE 1/2 MILE                 |
| TYPE OF AERONAUTICAL SURVEY REQUIRED FOR APPROACH    |                         | VGS                               | VGS                               |
| RUNWAY DEPARTURE SURFACE                             |                         | YES                               | YES                               |
| RUNWAY OBJECT FREE AREA (ROFA)                       | BEYOND RUNWAY END WIDTH | 1000'                             | 600' *                            |
|                                                      |                         | 800'                              | 800'                              |
| RUNWAY OBJECT FREE ZONE (ROFZ)                       | BEYOND RUNWAY END WIDTH | 200'                              | 200'                              |
|                                                      |                         | 400'                              | 400'                              |
| THRESHOLD SITING SURFACE                             |                         | 20:1                              | 34:1                              |
| GLIDE PATH QUALIFICATION SURFACE                     |                         | 30:1                              | 30:1                              |
| INSTRUMENT APPROACH AIDS                             |                         | GPS                               | ILS, GPS, DME                     |
| VISUAL APPROACH AIDS                                 |                         | PAPI-4L, REIL                     | PAPI-4L, REIL                     |
| TOUCHDOWN ZONE ELEVATION (TDZE)                      |                         | 483.6                             | 501.0'                            |
| TAXIWAY & TAXILANE WIDTH                             |                         | 40'                               | 40'                               |
| TAXIWAY & TAXILANE SAFETY AREAS (TSA)                |                         | 79'                               | 79'                               |
| TAXIWAY & TAXILANE OBJECT FREE AREA (TOFA)           |                         | 124' & 110'                       | 124' & 110'                       |
| TAXIWAY DESIGN GROUP (TDG)                           |                         | 2                                 | 2                                 |
| TAXIWAY EDGE SAFETY MARGIN (TESM)                    |                         | 15'                               | 15'                               |
| TAXIWAY LIGHTING                                     |                         | MITL                              | MITL                              |
| TAXIWAY AND TAXILANE SEPARATION                      |                         | N/A                               | N/A                               |
| <sup>1</sup> NONSTANDARD DIMENSION MITIGATED BY EMAS |                         |                                   |                                   |

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|------------|-----------------------------------------|
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| 06/16/2022 | REVISED FUTURE AERONAUTICAL DEVELOPMENT |
| 06/16/2022 | ADDED FUTURE AWOS AND MOS               |
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| 09/09/2022 | ADJUSTED COMMENTS FROM TDOT             |
| 03/17/2023 | ADJUSTED COMMENTS FROM TDOT             |



### CONSTRUCTION NOTICE REQUIREMENT

TO PROTECT OPERATIONAL SAFETY AND FUTURE DEVELOPMENT, ALL PROPOSED CONSTRUCTION ON THE AIRPORT MUST BE COORDINATED BY THE AIRPORT OWNER WITH THE TENNESSEE DEPARTMENT OF TRANSPORTATION - AERONAUTICS DIVISION PRIOR TO CONSTRUCTION. THIS COORDINATION AND REVIEW TAKES APPROXIMATELY NINETY (90) DAYS.

### ALP APPROVAL BLOCK

DocuSigned by:  
Douglas E. Bradley, D.E.  
METROPOLITAN NASHVILLE AIRPORT AUTHORITY

4/24/2023  
DATE

John C. Tune  
Airport

JOHN C. TUNE AIRPORT  
AIRPORT LAYOUT PLAN UPDATE

AIRPORT LAYOUT DRAWING  
DATE: March 17, 2023

SHEET

2 OF 8



