

Airport Certification Manual

Minneapolis-St. Paul International Airport (MSP)

DocuSigned by:



00700000NEADB400...

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List of Exhibits

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Exhibit 400-1 – Maintenance Corrective Action Form

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Exhibit 500-1 – LOA, Airport Emergency Services at Minneapolis-St. Paul International Airport (MSP)

Exhibit 500-2 – LOA, Land and Hold Short Operations (LAHSO) Procedures

Exhibit 500-3 – LOA, Movement/Non-movement Areas

Exhibit 500-4 – LOA, Runway Lighting for CAT II and III Approaches

Exhibit 500-5 – LOA, Surface Movement Guidance Control System Procedures

Exhibit 500-6 – LOA, Minneapolis Airport Traffic Control Tower Contingency Plan - Temporary Tower

Exhibit 500-7 – LOA, Notification Process by the Metropolitan Airports Commission for Surface Area Notices to Airmen

Exhibit 500-8 – LOA, Reporting Airport Movement Area Conditions and Notification

Exhibit 500-9 – LOA, Notice to Airmen (NOTAM) Notification Responsibility

Exhibit 500-10 – LOA, Runway Safety Areas

Exhibit 500-11 – LOA, Minneapolis Airport Traffic Control Tower Contingency Plan - Temporary Tower - Orange Ramp

Exhibit 500-12 – SMS Implementation Plan Approval Letter

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MINNEAPOLIS-ST. PAUL INTERNATIONAL AIRPORT CERTIFICATION MANUAL**Revision Control Sheet**

Revision Number	Revision Date	Revision Contents and/or Remarks
001	07/01/07	Pages iv - vi, Revision Control Sheet, Distribution List
001	07/01/07	Page 11-2, Declared Distances & Displaced Thresholds
001	07/01/07	Page 11-3, safety areas for Taxiways K & L
001	07/01/07	Page 12-3, 12-4, 12-5, Taxiway reflectors
001	07/01/07	Page 15-1, & 15-2, paragraph a, vehicles 16 & 17
001	07/01/07	Page 16-1, items c & e
001	07/01/07	Page 21-1, 21-2, 21-3, 21-4, 21-5, Pedestrian and Ground Vehicles
001	07/01/07	Page 24-1, item 3.a
001	07/01/07	Exhibit 1, Operations Organization Chart
001	08/15/06	Exhibit 7, Sign Plan
001	07/01/07	Exhibit 9, Snow Plan
001	07/01/07	Exhibit 13, Letters of Agreement
002	01/22/09	Exhibit 7, Updated Sign Plan
003	03/31/09	Exhibit 9, Snow Plan: Added information related to continuous monitoring and crew resource management.
004	10/31/10	Complete update of the entire document.
005	01/01/12	Page 21-1, 21-2, 21-3, 21-4, 21-5, 21-6, Pedestrian and Ground Vehicles
006	03/18/13	Pages i, iv, Table of Contents and Revision Control Sheet. Pages v-vi, Elimination of Document Control Sheet (page renumbering). Page 4-1, Falsification, reproduction, or alteration of applications, certificates, reports, or records. Page 8-1, 8-2 (format), CEO, Personnel. Page 21-2, 21-4, Pedestrians and Ground Vehicles.
007	09/15/13	00 -Table of Contents; Sections 9, 11, 12, 15, 16, 20, 24, 26, 27; Exhibits 1, 2, 4, 5-2, 6, 7, 9-1, 9-2, 10, 11, 13-1, 13-2, 14, 16, 17.
008	07/31/14	00 - Table of Contents, Section 21
009	08/01/14	Table of Contents, Section 13, Exhibit 9
010	03/24/2016	Updates to 00 - Table of Contents and Sections 12, 15, 16, 17, 20, and 26 as well as Exhibits 1, 4, 7, 10, 12, 14, and 15. Addition of Exhibit 18.

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Revision Control Sheet (continued)

Revision Number	Revision Date	Revision Contents and/or Remarks
011	09/01/2016	Changes to Sections 13, 20, 26 and Exhibit 9 to incorporate Runway Condition Codes (RCCs) and other changes to Airport Condition Reporting methods.
012	02/11/2018	Updates to 00 - Table of Contents, Sections 9 and 12 and Revised Movement/Non-Movement Area Letter of Agreement in Exhibit 13.
013	05/11/2018	Updates to 00 - Table of Contents, Distribution List, Section 21, Exhibit 1, Exhibit 5, and Exhibit 9
014	08/31/2018	Updates to Table of Contents, Section 11-Safety Areas, Section 12-Marking, Signs and Lighting, Section 15-ARFF Equipment and Agents, Section 17-Handling and Storing of Hazardous Substances and Materials, Exhibit 10-ARFF Equipment/Personnel, Exhibit 16-Preventive Maintenance Procedures for PAPIs and Generators, Exhibit 17-Engineered Materials Arresting System (EMAS) Maintenance Program, Exhibit 18-Fuel System Inspection Reports and Exhibit 19 - Corrective Action Form
015	11/09/2018	Updates to Section 19- Airport Emergency Plan and Exhibit 11- Airport Emergency Plan
016	06/01/2019	Entire document reformatting, and reorganization. Updates to Section 317- ARFF: Equipment and Agents, Section 321 -Handling and Storing of Hazardous Substances and Materials, Exhibit 303-1-Organization Chart, Exhibit 313-1-Snow Plan, Exhibit 317-1-ARFF Equipment/Personnel, Exhibit 327-1-Daily Self-Inspection Forms, Exhibit 339-1-NOTAM Information
017	09/27/2019	Updates to Distribution List, Section 323-Air Traffic and Wind Direction Indicators, Exhibit 311-2-Preventive Maintenance Inspection Procedures for PAPIs and Generators, Exhibit 313-1-1-Snow Plan, 321-1-Fuel System Inspection Reports, Exhibit 327-1-Self-Inspection Forms
018	10/01/20	Updates to Distribution List, Section C of Section 321 and replacement of pages 4 and 5 of Exhibit 321-1 with new training form.
019	11/20/20	Updates to Distribution List, Section 309, Section 311, Section 321, Section 323, Exhibit 305-2, Exhibit 311-2, and Exhibit 500-1
020	12/23/20	Updates to the Table of Contents and the Sign Plan in Exhibit 311-1.

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Revision Control Sheet (continued)

Revision Number	Revision Date	Revision Contents and/or Remarks
020A	06/16/2021	Updates to the Table of Contents, Distribution List, and the Sign Plan in Exhibit 311-1.
021	6/21/2021	Updated Wildlife Hazard Management Plan in Exhibit 337-1.
022	3/25/2022	Updated Table of Contents-Distribution List, Section 303, Section 327, Exhibit 309-1, Exhibit 311-2, and Exhibit 327-1.
023	04/22/2022	Updated Section 311, Section 325, Section 339, Exhibit 325-1 and Exhibit 339-1
024	08/26/2022	Updated Table of Contents, Section 305, Section 311, Exhibit 313-1, Exhibit 321-1, Exhibit 500-1
025	11/18/2022	Updated Table of Contents, Section 301, Section 317, Section 335, Exhibit 101-2, and Exhibit 500-10
026	07/14/2023	Updated Table of Contents, Section 201, Section 311, Section 327, Section 329, and Exhibit 327-1
027	10/06/2023	Updated Table of Contents Distribution List, Section 313 and Exhibit 313-1.
028	10/12/2023	Updated Exhibit 325-1, Airport Emergency Plan - Revision 06
029	12/29/2023	Updated Section 309, Section 317, Section 319, and Exhibit 317-1
030	01/26/2024	Update to the Sign Plan, Exhibit 311-1
031	01/31/2024	Updated Exhibit 325-1, Airport Emergency Plan - Revision 07
032	04/12/2024	Updated Section 337 and Exhibit 337-1, Wildlife Hazard Management Plan
033	05/30/2024	Updated Table of Contents Distribution List, Exhibit 500-6, and added new Exhibit 500-11.
034	07/10/2024	Updated Section 317, Exhibit 317-1, and Exhibit 500-6.
035	09/09/2024	Updated Exhibit 313-1, Snow and Ice Control Plan
036	09/18/2024	Updated Exhibit 325-1, Airport Emergency Plan
037	09/19/2024	Added Sections 401, 403, and Exhibit 500-12
038	11/01/2024	Updated Table of Contents Updated Exhibit 313-1, Snow and Ice Control Plan section 5.7 and Appendices 4, 5, 6, 7, 8, 9, 10, 11 Updated Section 309 page 3 and Exhibit 327-1 page 4
039	11/25/2024	Updated Table of Contents Updated Section 311 Added Exhibit 311-3

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Distribution List

1. Original ACM
 2. FAA Airport Certification Inspector
 3. MAC Executive Director/CEO
 4. MAC Executive Vice President/COO
 5. MAC Vice President Management and Operations
 6. MAC Director of Integrated Operations
 7. MAC Director of Airport Maintenance and Asset Management
 8. MAC Director of Terminal and Landside Operations
 9. MAC Assistant Director of Field Maintenance
 10. MAC Director of Real Estate and Airline Affairs
 11. MAC Emergency Manager
 12. MAC Airport Police Department
 13. MAC Airport Fire Department
 14. MAC SMS Manager
 15. MAC Trades Department
 16. MAC Field Maintenance Department
 17. MAC Electrical Department
 18. MAC Paint Department
 19. MAC Airport Development Department
 20. MAC Airside Operations Department
 21. MAC Emergency Communications Department
 22. Air Traffic Manager, FAA Air Traffic Control Tower
 23. Manager, FAA Airways Facilities
 24. Minnesota State Department of Transportation
 25. General Manager, Signature Flight Support
-

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Distribution List

26. Station Manager, Air Canada
27. Station Manager, WestJet Airlines
28. Station Manager, American Airlines
29. Station Manager, Southwest Airlines
30. Station Manager, Delta Air Lines
31. Station Manager, FedEx
32. Station Manager, Frontier Airlines
33. Station Manager, Icelandair
34. Station Manager, UNIFI
35. Station Manager, Spirit Airlines
36. Station Manager, Skywest Airlines
37. Station Manager, Endeavor Airlines
38. Station Manager, United Airlines
39. Station Manager, Sun Country Airlines
40. Station Manager, Alaska Airlines
41. Station Manager, DHL
42. Station Manager United Parcel Service
43. 934th Air Force Reserve
44. 133rd Air National Guard
45. Swissport
46. Station Manager, Denver Air Connection
47. Station Manager, Air France/KLM
48. Station Manager, Atlas Air
49. Station Manager, Allegiant Airlines
50. Station Manager, Amazon Air

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Distribution List

51. Station Manager, Condor Airlines
52. Station Manager, Aer Lingus
53. Station Manager, Lufthansa

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Signs

The Airport will provide and maintain a sign system for air carrier operations in accordance with 14 CFR Part 139.311(b). The Marking and Sign Plan is included in Exhibit 311-1. The signs will meet standards in *AC150/5340-18, current edition, Standards for Airport Sign Systems*, and sign specifications in *AC 150/5345-44, current edition, Specifications for Taxiway and Runway Signs*. The airport will provide a vehicle service road sign system for vehicles on the AOA to control access to the movement area. The Vehicle Service Road Sign Plan is included in Exhibit 311-3.

Lighting

The Airport will provide and maintain lighting systems for air carrier operations in accordance with Part 139.311(c) and *AC 150/5340-30, current edition, Design and Installation Details for Airport Visual Aids*, to meet the specifications for the lowest instrument approach minimums authorized for each runway.

The following lighting systems are provided:

1. Runways:

RUNWAY 04-22

H.I. RUNWAY EDGE LIGHTING SYSTEM
LIGHTS PER FAA SPEC. L-862

RUNWAY 12L-30R

H.I. RUNWAY EDGE LIGHTING SYSTEM
LIGHTS PER FAA SPEC. L-862

CENTERLINE LIGHTING
LIGHTS PER FAA SPEC. L-850

(RUNWAY 12L ONLY)
TOUCHDOWN ZONE LIGHTING
LIGHTS PER FAA SPEC. L-850


RUNWAY 12R-30L

H.I. RUNWAY EDGE LIGHTING SYSTEM

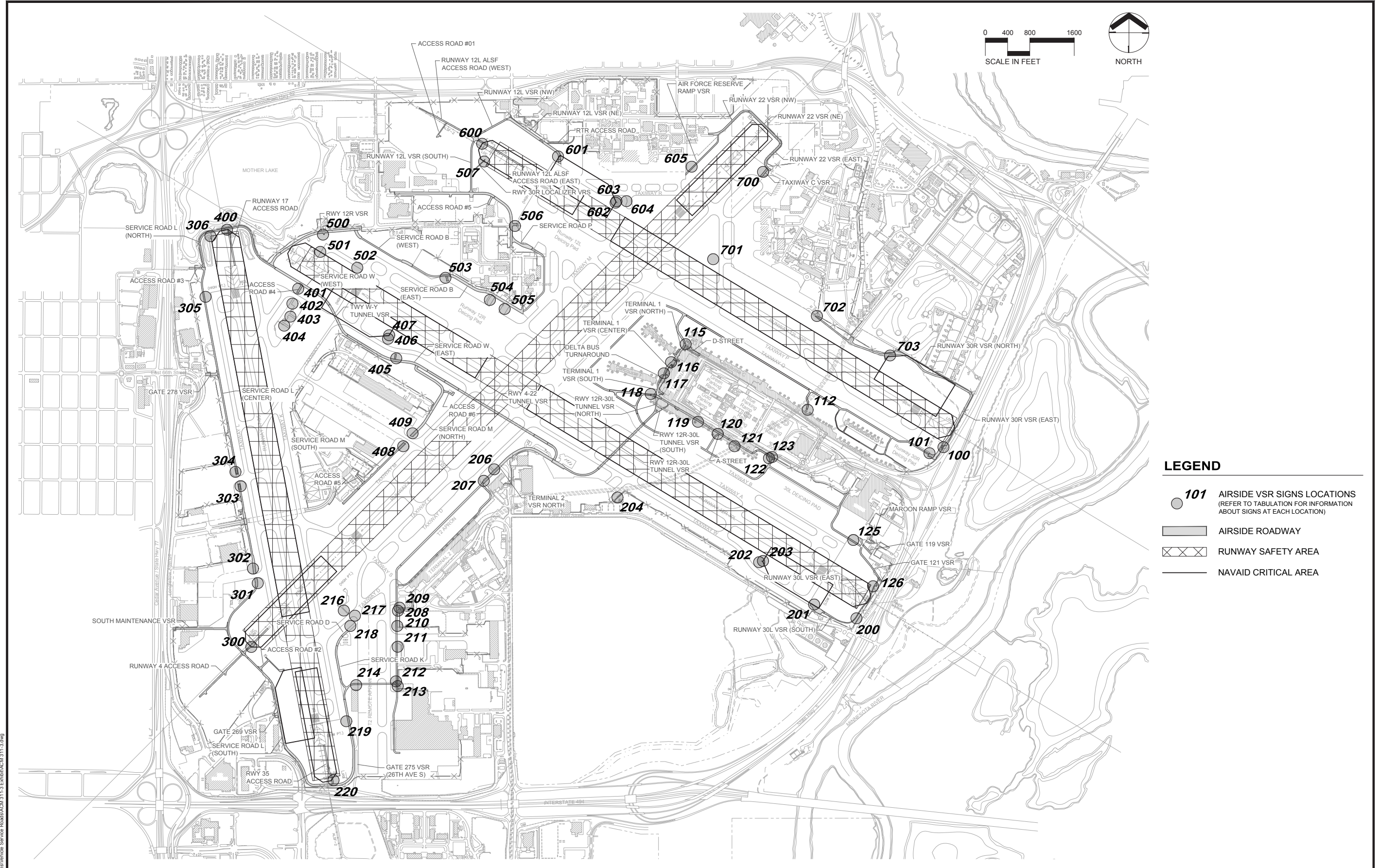
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Section 311, page 2

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- LEGEND**
- 101 AIRSIDE VSR SIGNS LOCATIONS
(REFER TO TABULATION FOR INFORMATION ABOUT SIGNS AT EACH LOCATION)
 - AIRSIDE ROADWAY
 - RUNWAY SAFETY AREA
 - NAVAID CRITICAL AREA

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VEHICLE SERVICE ROAD SIGN PLAN
 MINNEAPOLIS-ST. PAUL INTERNATIONAL AIRPORT

Approval: *Richard*
 Date: Nov 25 2024

SIGNS LOCATION PLAN

FAA Approval: *Richard*
 Date: Nov 25 2024

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MINNEAPOLIS-ST. PAUL INTERNATIONAL AIRPORT
AIRSIDE VEHICLE SERVICE ROAD (VSR) SIGNS TABULATION

LOCATION ID	VSR IDENT.	INTERSECTING FACILITY	TRAFFIC DIRECTION BEING CONTROLLED	# OF SIGNS	STOP SIGN	DO NOT PROCEED CONTACT ATC	VEHICLES MUST YIELD TO AIRCRAFT SIGN	EMERGENCY VEHICLES ONLY SIGN	AUTHORIZED VEHICLES ONLY SIGN	RUNWAY IDENTIFICATION SIGN	RUNWAY IDENTIFICATION SIGN MESSAGE	ILS SIGN	TAXIWAY IDENTIFICATION SIGN	TAXIWAY IDENTIFICATION SIGN MESSAGE
100	RWY 30R ACCESS	12L-30R ILS	NORTHBOUND	3	1	1	0	0	0	0		1	0	
101	T1 APRON ROAD	A-B TXL / RWY 30R DEICING PAD	WESTBOUND	2	1	0	1	0	0	0		0	0	
112	CONCOURSE C APRON ROAD	T1 APRON (GATE C22)	NORTHBOUND	1	0	0	1	0	0	0		0	0	
115	T1 SERVICE ROAD	T1 APRON (CONCOURSE D/E)	NORTHBOUND	1	0	0	1	0	0	0		0	0	
116	T1 SERVICE ROAD	T1 APRON (CONCOURSE E/F)	WESTBOUND	1	0	0	1	0	0	0		0	0	
117	T1 SERVICE ROAD	T1 APRON (CONCOURSE E/F)	WESTBOUND	1	0	0	1	0	0	0		0	0	
118	T1 SERVICE ROAD	T1 APRON (CONCOURSE F/G)	WESTBOUND	1	0	0	1	0	0	0		0	0	
119	CONCOURSE G APRON ROAD	T1 APRON (G POD 2/3)	SOUTHBOUND	1	0	0	1	0	0	0		0	0	
120	CONCOURSE G APRON ROAD	T1 APRON (G POD 3/4)	SOUTHBOUND	1	0	0	1	0	0	0		0	0	
121	CONCOURSE G APRON ROAD	T1 APRON (G POD 4/5)	SOUTHBOUND	1	0	0	1	0	0	0		0	0	
122	CONCOURSE G APRON ROAD	T1 APRON (GATE G22)	EASTBOUND	2	1	0	1	0	0	0		0	0	
123	TUNNEL ROADWAY	T1 APRON (GATE G22)	WESTBOUND	2	1	0	1	0	0	0		0	0	
125	30L DEICING PAD VSR	RWY 30L DEICING PAD / TWY A1	WESTBOUND	2	1	0	1	0	0	0		0	0	
126	RWY 30L ACCESS	12R-30L ILS	SOUTHBOUND	3	1	1	0	0	0	0		1	0	
200	RWY 30L ACCESS	12R-30L ILS	NORTHBOUND	3	1	1	0	0	0	0		1	0	
201	TWY W ACCESS	TWY W / W1	WESTBOUND	4	1	1	0	0	0	0		1	1	(W1 >)
202	TWY W MTCE	TWY W	SOUTHBOUND	3	1	1	0	0	0	0		0	1	(< W >)
203	TWY W MTCE	TWY W	EASTBOUND	1	0	0	0	0	0	0		1	0	
204	FBO ACCESS	FBO APRON	WESTBOUND	2	1	0	1	0	0	0		0	0	
206	EMERGENCY RESPONSE ACCESS	TWY D	WESTBOUND	4	1	1	0	1	0	0		0	1	(< D >)
207	T2 APRON ROAD	T2 APRON (Gate H16)	SOUTHBOUND	2	1	0	1	0	0	0		0	0	
208	T2 APRON ROAD	T2 APRON (Gate H1)	NORTHBOUND	2	1	0	1	0	0	0		0	0	
209	T2 LOADING DOCK ROAD	T2 APRON (Gate H1)	WESTBOUND	2	1	0	1	0	0	0		0	0	
210	SERVICE ROAD S	TXL S2	SOUTHBOUND	2	1	0	1	0	0	0		0	0	
211	SERVICE ROAD S	TXL S2	NORTHBOUND	2	1	0	1	0	0	0		0	0	
212	SERVICE ROAD S	T2 REMOTE APRON	SOUTHBOUND	2	1	0	1	0	0	0		0	0	
213	SERVICE ROAD S	T2 REMOTE APRON	NORTHBOUND	2	1	0	1	0	0	0		0	0	
214	SERVICE ROAD K	T2 REMOTE APRON	EASTBOUND	2	1	0	1	0	0	0		0	0	
216	TWY D MTCE	TWY D	SOUTHBOUND	3	1	1	0	0	0	0		0	1	(< D >)
217	TWY D MTCE	TWY D	NORTHBOUND	3	1	1	0	0	0	0		0	1	(< D >)
218	T2 REMOTE APRON DEICING PAD ACCESS	T2 REMOTE APRON	EASTBOUND	1	0	0	0	0	1	0		0	0	
219	TWY K ACCESS	TWY K / K1	WESTBOUND	3	1	1	0	0	0	0		0	1	(K >)
220	RWY 35 ACCESS	17-35 RSA, ILS	NORTHBOUND	4	1	1	0	0	0	1	(17-35)	1	0	
300	RWY 4 ACCESS	4-22 RSA, ILS	NORTHBOUND	4	1	1	0	0	0	1	(4-22)	1	0	
301	SERVICE ROAD L	TXL L5	NORTHBOUND	2	1	0	1	0	0	0		0	0	
302	SERVICE ROAD L	TXL L5	SOUTHBOUND	2	1	0	1	0	0	0		0	0	
303	SERVICE ROAD L	TXL L6	NORTHBOUND	2	1	0	1	0	0	0		0	0	
304	SERVICE ROAD L	TXL L6	SOUTHBOUND	2	1	0	1	0	0	0		0	0	
305	TWY L ACCESS	TWY L / L10	EASTBOUND	3	1	1	0	0	0	0		0	1	(L >)
306	RWY 17 MTCE	17-35 RSA, ILS	SOUTHBOUND	4	1	1	0	0	0	1	(17-35)	1	0	
400	RWY 17 ACCESS	17-35 RSA, ILS	SOUTHBOUND	4	1	1	0	0	0	1	(17-35)	1	0	
401	17 DEICING PAD VSR	TWY W	SOUTHBOUND	3	1	1	0	0	0	0		0	1	(< W >)
402	17 DEICING PAD VSR	TWY W	NORTHBOUND	3	1	1	0	0	0	0		0	1	(< W >)
403	17 DEICING PAD VSR	TWY Z	EASTBOUND	3	1	1	0	0	0	0		0	1	(< Z >)
404	17 DEICING PAD VSR	TWY Z	EASTBOUND	3	1	1	0	0	0	0		0	1	(< Z >)
405	TWY W MTCE	TWY W	NORTHBOUND	3	1	1	0	0	0	0		0	1	(< W >)
406	TWY W ACCESS	TWY W	SOUTHBOUND	3	1	1	0	0	0	0		0	1	(< W >)
407	TWY W MTCE	TWY W	WESTBOUND	1	0	0	0	0	0	0		1	0	
408	SERVICE ROAD M	TXL T	NORTHBOUND	3	1	0	1	0	0	0		0	1	(< T >)
409	SERVICE ROAD M	TXL T	SOUTHBOUND	3	1	0	1	0	0	0		0	1	(< T >)
500	RWY 12R ACCESS	FORMER TWY A	EASTBOUND	2	1	0	0	0	1	0		0	0	0
501	RWY 12R ACCESS	12R-30L RSA, ILS	SOUTHBOUND	4	1	1	0	0	0	1	(30L-12R)	1	0	0
502	RWY 12R ACCESS	TWY A10	EASTBOUND	3	1	1	0	0	0	0		0	1	(< A10 >)
503	12R DEICING PAD VSR	TWY B	SOUTHBOUND	3	1	1	0	0	0	0		0	1	(< B >)
504	EMERGENCY RESPONSE ACCESS	TWY B	SOUTHBOUND	4	1	1	0	1	0	0		0	1	(< B >)
505	12R DEICING PAD VSR	TWY B	SOUTHBOUND	3	1	1	0	0	0	0		0	1	(< B >)
506	12L DEICING PAD VSR	TWY Q / P10	EASTBOUND	3	1	1	0	0	0	0		0	1	(< Q >)
507	RWY 30R LOCALIZER MTCE	12L-30R RSA, ILS	NORTHBOUND	3	1	1	0	0	0	0		1	0	
600	RWY 12L ACCESS	12L-30R RSA, ILS	EASTBOUND	4	1	1	0	0	0	1	(12L-30R)	1	0	
601	RWY 12L SERVICE ROAD	TWY R / R10	EASTBOUND	4	1	1	0	0	0	0		1	1	(< R >)
602	TWY R INFIELD MTCE	12L-30R ILS	NORTHBOUND	3	1	1	0	0	0	0		0	1	(< R >)
603	TWY R INFIELD MTCE	12L-30R ILS	WESTBOUND	1	0	0	0	0	0	0		1	0	
604	TWY R INFIELD MTCE	TWY R	NORTHBOUND	3	1	1	0	0	0	0		0	1	(< R >)
605	AIRFORCE RESERVE RAMP ACCESS	AIR FORCE RESERVE APRON	WESTBOUND	1	0	0	1	0	0	0		0	0	
700	TWY C ACCESS	APRON	SOUTHBOUND	2	1	0	1	0	0	0		0	0	
701	TWY G MTCE	TWY G	EASTBOUND	3	1	1	0	0	0	0		0	1	(< G >)
702	RWY 30R ACCESS	ANG APRON	WESTBOUND	2	1	0	1	0	0	0		0	0	
703	RWY 30R ACCESS	12L-30R ILS	EASTBOUND	3	1	1	0	0	0	0		1	0	

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VEHICLE SERVICE ROAD SIGN PLAN
MINNEAPOLIS-ST. PAUL INTERNATIONAL AIRPORT

SIGNS TABULATION

FAA Approval: *Reid*
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