

# Q1-2021 Airport Construction Impact Report



## U.S. Core 30+ Airports 3-Year Construction Outlook

System Operations Services - Performance Analysis  
FAA National Headquarters, Washington, DC 20591

January 01, 2021  
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Disclaimer: Not for operational use. This report contains active and planned airport construction projects, which may impact airport capacity and delays. Due to the nature of airport construction, this information is constantly changing and may be postponed or canceled at any time. This report will be updated quarterly.



**Federal Aviation  
Administration**

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### IATA Airport-Level Designations

**Level 1** – Airport infrastructure capacity is generally adequate to meet the demands of airport users at all times

**Level 2** – Airports where potential for congestion exists during some periods that can be resolved by schedule adjustments mutually agreed between the airlines and facilitator

**Level 3** – Airports with full slot controls where demand for airport infrastructure significantly exceeds the capacity during certain periods and expansion of infrastructure to meet demand is not possible in the short term

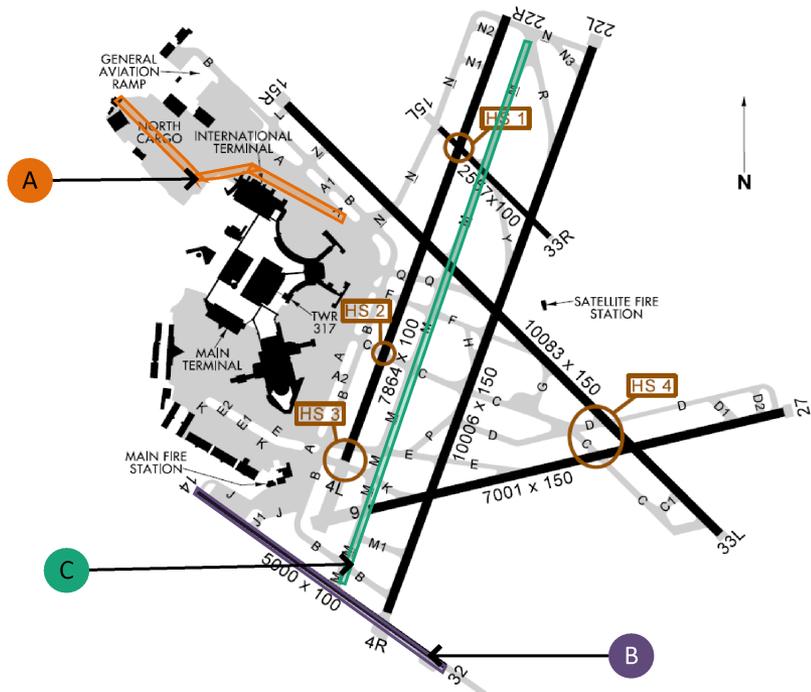
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### Construction Impact Key

**G** **No Capacity Effect** – Departures taxi delays and/or Arrivals airborne holding delays are 15 minutes or less

**Y** **Reduced Capacity and Delay Impact** – Departures taxi delays and/or Arrivals airborne holding delays of 16 to 45 minutes

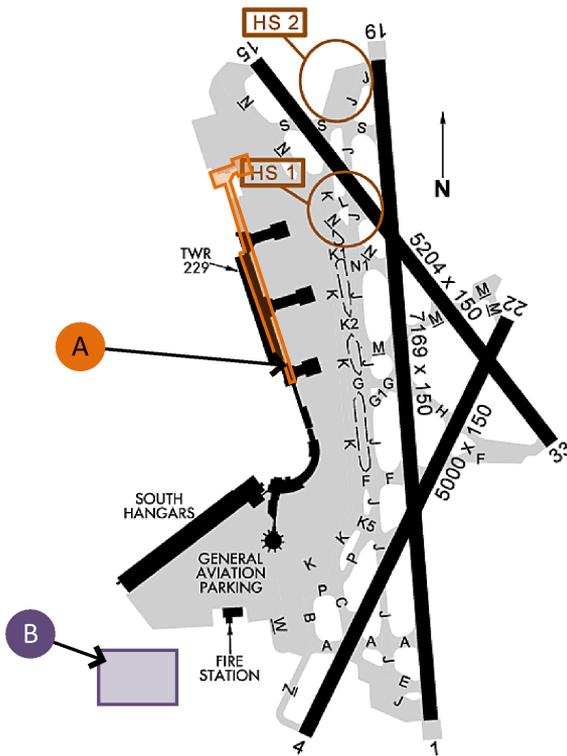
**R** **Reduced Capacity and Greater Delay Impact** – Departures taxi delays and/or Arrivals airborne holding delays greater than 45 minutes



| Project                        | 2020 |     |     | 2021 |     |     |     |     |     |     |     |     |     |     |     | 2022 |     |     |     |     |     |     |     |     |     |     |     | 2023 |     |     |     |     |     |     |     |     |  |  |  |
|--------------------------------|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|
|                                | OCT  | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |  |  |  |
| <b>A</b> North-South Fuel Line | G    | G   | G   | G    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |  |  |  |
| <b>B</b> RWY 14/32 Rehab       |      |     |     |      |     |     |     | Y   | Y   | Y   | Y   | Y   |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |  |  |  |
| <b>C</b> TWY M Rehabilitation  |      |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y    |     |     |     |     |     |     |     |     |  |  |  |

| Project                        | Description of Work                                       | Estimated Dates          | Status      | Impact   | Notes   |
|--------------------------------|---|--------------------------|-------------|----------|---|
| <b>A</b> North-South Fuel Line | North-South fuel line project Phase 1 scheduled to begin. | 05/13/2020 to 01/31/2021 | In Progress | <b>G</b> | Work performed 0600-1600L Monday through Friday. The fuel line trench will be inside of the 280-foot Runway Safety Area (RSA) which means if RWY 15R/33L is used the safety area will be restored to FAA part 139 conditions. |
| <b>B</b> RWY 14/32 Rehab       | RWY 14/32 closed for rehabilitation.                      | 05/01/2021 to 09/30/2021 | Upcoming    | <b>Y</b> |   |
| <b>C</b> TWY M Rehabilitation  | TWY M closed for rehabilitation.                          | 05/01/2022 to 12/31/2022 | Upcoming    | <b>Y</b> |   |





| Project                            | 2020 |     |     | 2021 |     |     |     |     |     |     |     |     |     |     |     | 2022 |     |     |     |     |     |     |     |     |     |     |     | 2023 |     |     |     |     |     |     |     |     |  |  |  |
|------------------------------------|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|
|                                    | OCT  | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |  |  |  |
| <b>A</b> North Concourse           | Y    | Y   | Y   | Y    | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y    | Y   | Y   | Y   |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |  |  |  |
| <b>B</b> Lighting Vault Relocation |      |     |     | G    | G   | G   | G   | G   | G   | G   | G   | G   |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |  |  |  |

| Project                            | Description of Work  | Estimated Dates          | Status      | Impact   | Notes  |
|------------------------------------|--|--------------------------|-------------|----------|--|
| <b>A</b> North Concourse           | New regional concourse gates replacing surface gates.  | 04/19/2017 to 04/01/2022 | In Progress | <b>Y</b> | Safety Risk Assessment determined medium risk due to controller workload increase. New 14 Regional Jet (RJ) gates with jet bridges will allow handling of larger aircraft with 76-seats, versus current restriction of smaller aircraft with 50-seats. |
| <b>B</b> Lighting Vault Relocation | TV-900 Lighting Vault Relocation. Airport lighting vault will be relocated. FAA NAVAIDS and communication equipment will be relocated to the new lighting vault. | 02/15/2021 to 09/24/2021 | Upcoming    | <b>G</b> |  |

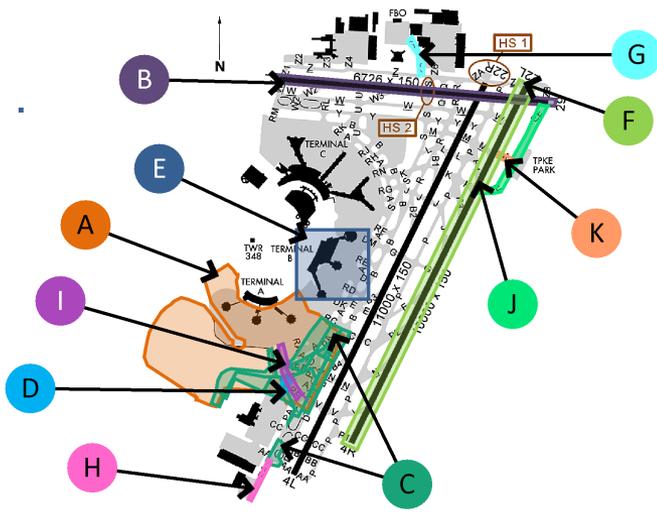
**G** No capacity effect

**Y** Reduced Capacity and Delay impact

**R** Reduced Capacity and Greater Delay Impact

**T** To be determined

IATA Level 2



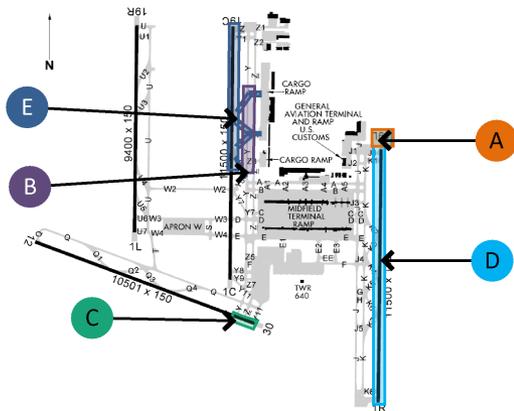
| Project                    | 2020 |     |     | 2021 |     |     |     |     |     |     |     |     |     |     |     | 2022 |     |     |     |     |     |     |     |     |     |     |     | 2023 |     |     |     |     |     |     |     |     |   |  |
|----------------------------|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|---|--|
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| A Terminal One             | Y    | Y   | Y   | Y    | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y    | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y    | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y |  |
| B RWY 11/29 Rehabilitation | G    | G   | G   | G    | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |   |  |

| Project                    | Description of Work   | Estimated Dates              | Status      | Impact | Notes  |
|----------------------------|---|------------------------------|-------------|--------|--|
| A Terminal One             | Terminal One redevelopment program. Demolition of existing Terminal A complex and construction of new Terminal One complex. Includes infrastructure required to support a 33-gate terminal complex. | 01/01/2018 to 10/20/2022 TBD | In Progress | Y      | Multi-phased project. Expect taxiing delays in/out due to ramp congestion.<br><br>Partial Terminal Opening, Q3-2021 (21 Gates)<br>Full Terminal Opening, Q3-2022 (33 Gates)  |
| B RWY 11/29 Rehabilitation | RWY 11/29 closed for rehabilitation.  | 04/30/2020 to 12/31/2021     | In Progress | G      | Project has been substantially completed. Work to clear construction exception ("punchlist") items proceeding and on-going.<br><br>Some contract work deleted from contract and will be done under other contract vehicles and deferred to 2021. |







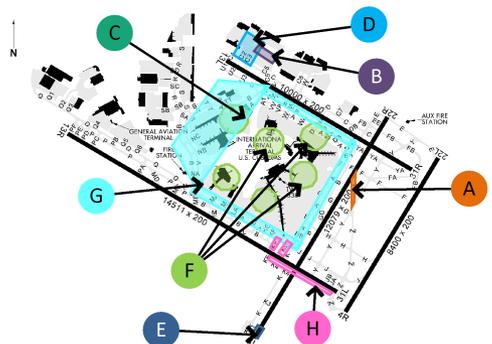


|         |                                 | 2020 |     |     | 2021 |     |     |     |     |     |     |     |     |     |     |     | 2022 |     |     |     |     |     |     |     |     | 2023 |     |     |     |     |     |     |     |     |     |     |     |  |
|---------|---------------------------------|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Project |                                 | OCT  | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT  | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |  |
| D       | RWY 19L ALSF-2 (1R/19L closure) | G    | G   | G   | G    | G   | G   |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |  |
| E       | RWY 1C/19C                      |      |     |     |      |     | R   | R   | R   | R   | R   | R   | R   | R   | R   |     |      |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |  |

| Project | Description of Work  | Estimated Dates          | Status      | Impact | Notes   |
|---------|--|--------------------------|-------------|--------|---|
| D       | <p>RWY 19L ALSF-2 (1R/19L closure)</p> <p>Update RWY 19L Approach Lighting System with Sequence Flashing Lights (ALSF-2).</p> <p>Open trench work at the approach end of RWY 19L.</p> <p>RWY 1R/19L closed: 0600-1400L daily. (Two RWYs 1C/19C and 1L/19R will be open).</p> | 10/19/2020 to 03/01/2021 | In Progress | G      | <p>RWY1R/19L potential operational impacts due to work inside the RSA. Work inside the Runway Safety Area (RSA) will be expected last until late January 2021 depending on weather. Original weekly closure of Mon-Friday was modified to Mon-Sat to account for potential weather delays. Minimal impact at current traffic levels. After RSA work, the project will begin outside the RSA where there will be no impact.</p> <p>12/01/2020: Construction restarted October 2020. Due to staffing and project needs the RY1 R ILS and GS is OTS at least 1/29/2021. Project completion scheduled for 3/1/2021.</p> |
| E       | <p>RWY 1C/19C</p> <p>Reconstruction of the North section of RWY 1C/19C and high speed TWYs Y2, Y3, Y4 &amp; Y5, inside the Runway Safety Area (RSA). FAA owned Runway Status Lights (RWSL) to be relocated.</p>  | 03/01/2021 to 11/30/2021 | Upcoming    | R      | <p>Crossing TWYs W2, W3 and W4 will remain open for aircraft arriving or departing RWY 1L/19R. Displaced threshold possible to relieve potential capacity impact.</p> <p>Project will start Q1 March 2021.</p> <p>The work remains on schedule. MWA has completed the 100% design phase.</p> <p>12/02/2020: Contract has been awarded. The work remains No changes to start and completion dates</p>  |



IATA Level 3



| Project   | 2020 |     |     | 2021 |     |     |     |     |     |     |     |     |     |     |     | 2022 |     |     |     |     |     |     |     |     |     |     |     | 2023 |     |     |     |     |     |     |     |     |   |   |   |   |   |   |
|---|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|---|---|---|---|---|---|
|   | OCT  | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |   |   |   |   |   |   |
| <b>D</b> TWYs C2 and C3 Enhancement Project         | G    | G   | G   | G    | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |   |   |   |   |   |   |
| <b>E</b> RWY 4L Runway End Identifier Lights (REIL) | G    | G   | G   | G    | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |   |   |   |   |   |   |
| <b>F</b> Terminal Area                              |      |     |     | Y    | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y    | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y    | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y | Y |   |   |   |   |
| <b>G</b> TWYs A and B                               |      |     |     |      |     | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |   |   |   |   |   |   |
| <b>H</b> TWY K4 Extension                           |      |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     | T | T | T | T | T | T |

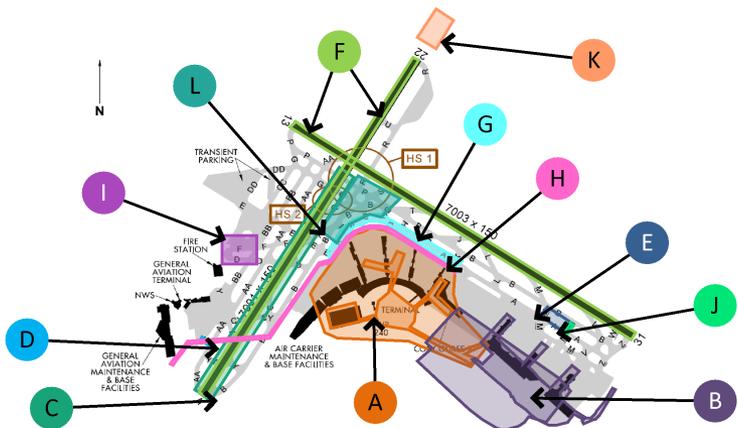
| Project   | Description of Work  | Estimated Dates                  | Status      | Impact   | Notes  |
|---|--|----------------------------------|-------------|----------|--|
| <b>D</b> TWYs C2 and C3 Enhancement Project         | Relocation (Shift) and Reconstruction of TWYs C2, C3, and reconstruction of West portion of North Cargo Area Ramp. | 12/13/2019 to 2021 TBD           | In Progress | <b>G</b> | Project has been substantially completed. Work to clear construction exception (“punchlist”) items proceeding and ongoing.<br>Check current NOTAMS for status of taxiway closures.         |
| <b>E</b> RWY 4L Runway End Identifier Lights (REIL) | RWY 4L Runway End Identifier Lights (REIL) work.   | 05/08/2020 to 2021 TBD           | In Progress | <b>G</b> | On hold due to COVID-19.   |
| <b>F</b> Terminal Area                              | Redevelopment construction involving Terminals 1,4, and 5-7 and other areas.                                       | 2021 TBD to 2025 TBD             | Upcoming    | <b>Y</b> | 24 hardstands will be relocated. This will result in increased towing operations and limited metering locations.<br>Redevelopment scope and schedule being reevaluated due to COVID-19.TBD |
| <b>G</b> TWYs A and B                               | Full reconstruction of TWYs A and B  | March 2021 to November 2021      | Upcoming    | <b>R</b> | Coordination with ATC to minimize impact.  |
| <b>H</b> TWY K4 Extension                           | Effort lead by JFK Redevelopment for the construction/redevelopment of Taxiway K4.                                 | Spring 2023 TBD to Fall 2023 TBD | Upcoming    | <b>T</b> | TWY K4 extended east to TWY Z and west from RWY 4L to RWY 13R/31L.   |

**G** No capacity effect

**Y** Reduced Capacity and Delay impact

**R** Reduced Capacity and Greater Delay Impact

**T** To be determined



| Project           | 2020 |     |     | 2021 |     |     |     |     |     |     |     |     |     |     |     | 2022 |     |     |     |     |     |     |     |     |     |     |     | 2023 |     |     |     |     |     |     |     |     |  |  |  |
|-------------------|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|
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| A Terminal B      | Y    | Y   | Y   | Y    | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |  |  |  |
| B Terminals C & D | G    | G   | G   | G    | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   | G    | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   | G    | G   | G   | G   | G   | G   | G   | G   | G   |  |  |  |
| C RWY 4/22        | Y    | Y   | Y   |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |  |  |  |

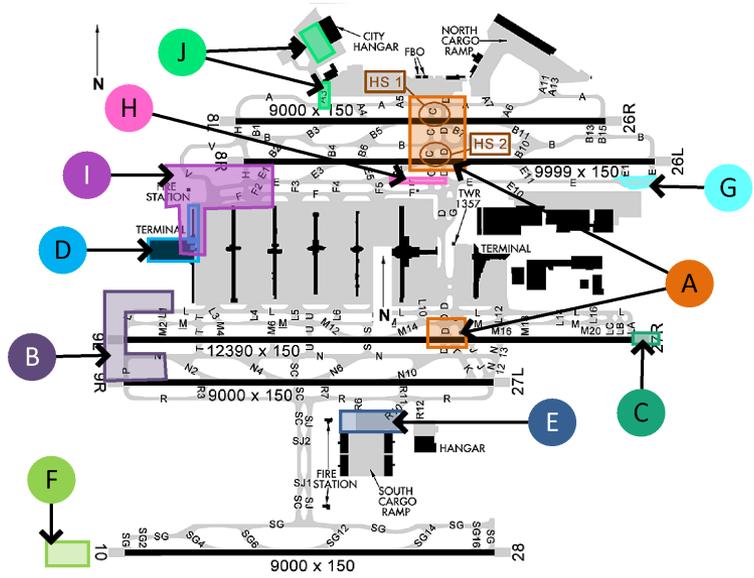
| Project           | Description of Work  | Estimated Dates          | Status      | Impact | Notes   |
|-------------------|--|--------------------------|-------------|--------|---|
| A Terminal B      | Terminal B redevelopment of the Central Terminal Building (CTB). Construction expected to include the demolition of the existing terminal and associated infrastructure. Construction is for a new 35-gate terminal.   | 08/04/2015 to 11/07/2021 | In Progress | Y      | Concourse B now open. Headhouse opened June 2020. North portion of Concourse A opened on August 5th with first seven (7) gates.   |
| B Terminals C & D | Terminals C & D redevelopment. Construction includes demolition of the existing terminals and reconstruction. Construction is for a 37-gate terminal.  | 08/01/2017 to 01/24/2025 | In Progress | G      | Construction includes new main terminal. Terminal C & D is approx. 38% of LGA passenger traffic (275 daily departures).<br>Concourse G now open. Concourse E construction underway.   |
| C RWY 4/22        | RWY 4/22 closed for rehabilitation. Mill and overlay of runway deck wearing course, and concrete panel replacement. Includes lighting upgrades. Resurfacing RWY 4/22 from the approach end of RWY 4 to the runway intersection. Includes all runway crossings and exits.<br>Runway paving and grooving completed Oct 2019. | 04/14/2019 to 12/30/2020 | In Progress | Y      | Multi-phased project. The majority will be completed during weekend closures. The runway closures required for this project will be scheduled during nighttime, and during scheduled weekend closures to minimize impacts. Associated taxiway work will continue through November 2020.<br>Resurfacing of the runway crossings and turn-offs ongoing during extended weekend closures. Electrical work ongoing during the overnights. |









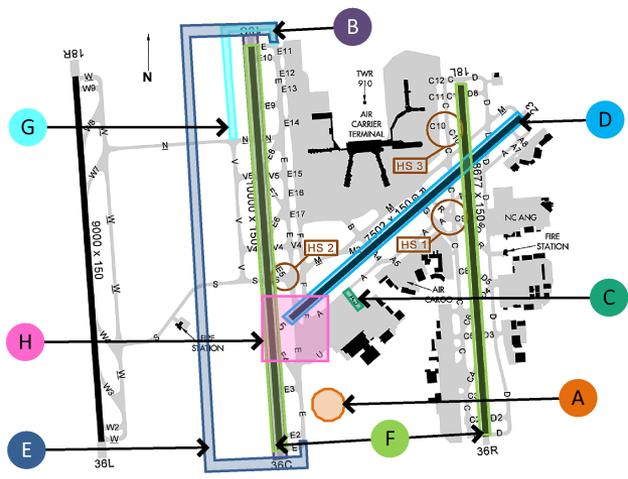


| Project                        | 2020 |     |     | 2021 |     |     |     |     |     |     |     |     |     |     |     | 2022 |     |     |     |     |     |     |     |     | 2023 |     |     |     |     |     |     |     |     |     |     |     |  |  |  |
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| <b>A</b> Hot Spots 1, 2, and 4 | Y    | Y   | Y   | Y    | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   |      |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |  |  |  |
| <b>B</b> RWY 9L End-Around TWY |      |     |     |      |     |     |     | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y    | Y   | Y   | Y   | Y   | Y   | Y   | Y   |     |      |     |     |     |     |     |     |     |     |     |     |     |  |  |  |

| Project                        | Description of Work  | Estimated Dates           | Status      | Impact   | Notes  |
|--------------------------------|--|---------------------------|-------------|----------|--|
| <b>A</b> Hot Spots 1, 2, and 4 | RWY Incurion Mitigation (RIM) Program: RWY 8L/26R, HS1, TWY C, D, B intersections; RWY 8R/26L, HS2, TWY C, D intersections. HS4 at RWY 9L/27R and TWY D intersections. | November 2019 to 2021 TBD | In Progress | <b>Y</b> | <p>RWY Incurion Mitigation Program (RIM) of HS1 and HS2. requires shifting of portions of TWYs C and D that intersect RWYs 8L/26R and 8R/26L at midfield. Phased project planned to minimize costs and airfield impacts.</p> <p>HS1 is in consult/design phase to shift TWY D exiting signature to the east. HS1 may start in 2021.</p> <p>HS2 has been completed at 8R/26L. HS4 has been completed.</p> |
| <b>B</b> RWY 9L End-Around TWY | Construction of an end-around-taxiway (EAT) at RWY 9L to provide more efficient capacity and reduce delays.  | 05/01/2021 to 08/01/2022  | Upcoming    | <b>Y</b> | Impacts uncertain until designs are finalized.   |







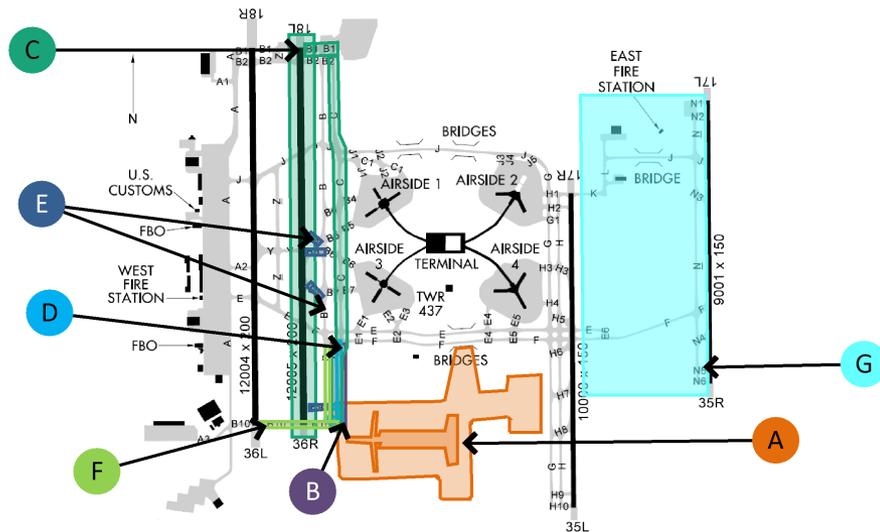
| Project                       | 2020 |     |     | 2021 |     |     |     |     |     |     |     |     |     |     |     | 2022 |     |     |     |     |     |     |     |     |     |     |     | 2023 |     |     |     |     |     |     |     |     |  |  |  |   |   |
|-------------------------------|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|---|---|
|                               | OCT  | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |  |  |  |   |   |
| <b>A</b> Control Tower        | G    | G   | G   | G    | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |  |  |  |   |   |
| <b>B</b> RWY 18C/36C          | G    | G   | G   | G    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |  |  |  |   |   |
| <b>C</b> TWY A3               | G    | G   | G   |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |  |  |  |   |   |
| <b>D</b> RWY 5/23             | T    | T   | T   | T    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |  |  |  |   |   |
| <b>E</b> New 4th Parallel RWY |      |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |  |  |  | G | G |

| Project                       | Description of Work   | Estimated Dates          | Status      | Impact   | Notes  |
|-------------------------------|---|--------------------------|-------------|----------|--|
| <b>A</b> Control Tower        | New FAA Control Tower.  | 06/02/2017 to 2021 TBD   | In Progress | <b>G</b> | Tower should be commissioned and operational in 2021.  |
| <b>B</b> RWY 18C/36C          | RWY 18C/36C closed for joint seal replacement and north TWY E (E2 & E10). Nightly closures. | 09/01/2020 to 01/31/2021 | In Progress | <b>G</b> | This project work expected to occur during overnight hours, between 2300-0600L daily.  |
| <b>C</b> TWY A3               | TWY A3 closed.  | 09/01/2020 to 12/17/2020 | Complete    | <b>G</b> |  |
| <b>D</b> RWY 5/23             | RWY 5/23 closed except for taxiing.   | 10/31/2020 to 01/05/2021 | In Progress | <b>T</b> |  |
| <b>E</b> New 4th Parallel RWY | Build new runway to add capacity, 10,000 ft. x 150 ft., plus end-around TWYs.               | 08/22/2023 to 08/20/2026 | Upcoming    | <b>G</b> | Multi-phased project. Currently in environmental review. Possible service interruptions due to infrastructure system tie-ins. Possible arrival/departure impacts due to equipment and construction cranes. |





IATA Level 2



| Project                             | 2020 |     |     | 2021 |     |     |     |     |     |     |     |     |     |     |     | 2022 |     |     |     |     | 2023 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |
|-------------------------------------|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|
|                                     | OCT  | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN  | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |  |  |  |
| <b>A</b> South Terminal Complex     | Y    | Y   | Y   | Y    | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y    | Y   | Y   | Y   | Y   | Y    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |
| <b>B</b> TWY C                      | Y    | Y   | Y   | Y    | Y   | Y   | Y   |     |     |     |     |     |     |     |     |      |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |
| <b>C</b> RWY 18L/36R<br>TWYS B1 & C | Y    |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |

| Project                             | Description of Work   | Estimated Dates            | Status      | Impact   | Notes  |
|-------------------------------------|---|----------------------------|-------------|----------|--|
| <b>A</b> South Terminal Complex     | Construction of a South Terminal Complex and Intermodal Facility. Associated apron/taxiway construction. Limited RWY/TWY closures for tie-ins. Includes a 19-gate concourse and terminal.   | June 2019 to Jun 2022 TBD  | In Progress | <b>Y</b> | Construction cranes may impact arrival minimums during inclement weather. Expecting some system impacts when taxiway closures are required. Associated limited impacts on RWYs and TWYs during construction of Virgin train rail network.  |
| <b>B</b> TWY C                      | TWY C closed South of TWY F in conjunction with the South Terminal Project. TWY C is scheduled to close for an extended period.   | 12/10/2019 to 03/31/2021   | In Progress | <b>Y</b> | Possible capacity issues with delay impacts. Will no longer be able to stage aircraft on parallel taxiways. Also, less flexibility to move aircraft not ready to depart at runway end. Only North operations affected. During South operations, possible gate delays and impacts on airfield capacity. Weather events may cause more delay(s). |
| <b>C</b> RWY 18L/36R<br>TWYS B1 & C | RWY 18L/36R closed for rehabilitation. TWY B1 and TWY C closed for milling/overlay, and other repairs. Improvements to pavement geometry, runway shoulder pavement widening, blast pad enhancements, markings, lighting, and signage. | 01/13/2020 to October 2020 | Complete    | <b>Y</b> | RWY 18R/36L will be a shared departure/arrival runway. More delays during weather requiring TMU initiatives. Possible longer taxi times. Additional taxiway closures expected during construction.   |

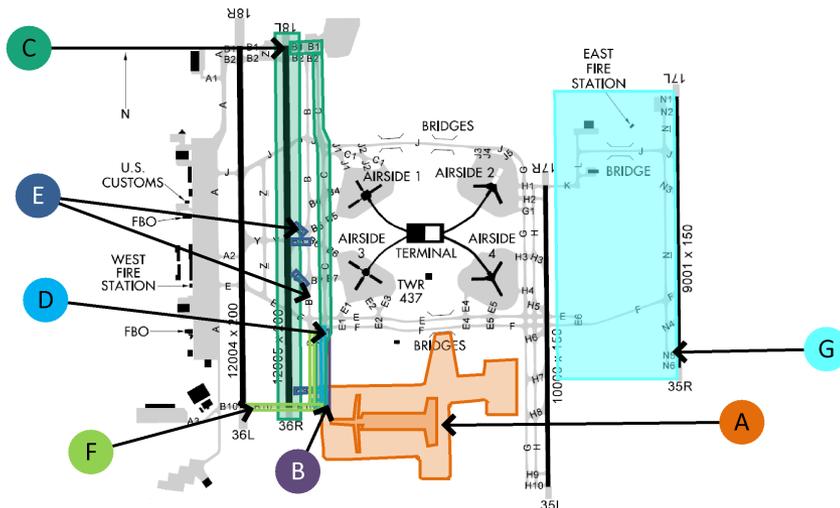
**G** No capacity effect

**Y** Reduced Capacity and Delay impact

**R** Reduced Capacity and Greater Delay Impact

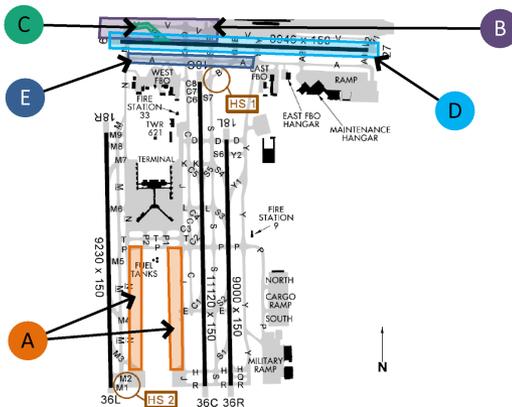
**T** To be determined

IATA Level 2



| Project | 2020 |     |     | 2021 |     |     |     |     |     |     |     |     | 2022 |     |     |     |     |     |     |     |     | 2023 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |  |
|---------|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|--|
|         | OCT  | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT  | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL  | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |   |  |
| D       | T    | T   | T   | T    | T   | T   |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |  |
| E       | Y    |     |     |      |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |  |
| F       | T    | T   | T   |      |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |   |  |
| G       |      |     |     | R    | R   | R   | R   | R   | R   | R   | R   | R   | R    | R   | R   | R   | R   | R   | R   | R   | R   | R    | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R |  |

| Project | Description of Work   | Estimated Dates              | Status      | Impact | Notes  |
|---------|---|------------------------------|-------------|--------|--|
| D       | TWYs B9, B10 and C<br>TWY B9 closed between TWY B and TWY C.<br>TWY B10 closed between TWY B and TWY C.<br>TWY C closed between TWY F and TWY B10.  | 12/10/2019 to 03/31/2021     | In Progress | T      |  |
| E       | TWYs B5, B6, B7 and B9<br>TWYs B5, B6, B7 and B9 closed between RWY 18L/36R and TWY B.  | 01/13/2020 to October 2020   | Complete    | Y      |  |
| F       | TWY B & B10<br>TWYs B (partial) and B10 closed. TWY B closed between TWY F and B10.<br>TWY B10 closed between the approach ends of RWYs 36L and 36R.<br>TWY B10 closed between the approach end of RWY 36R and TWY C. | 06/08/2020 to 2020 TBD       | Complete    | T      | The completion date has been delayed. Tentative completion date is 8/31/20.  |
| G       | East-side Taxiways<br>Associated TWYs closed for rehabilitation, lighting, painting and signage on all taxiways between RWYs 17L and 17R.   | Jan 2021 TBD to Sep 2022 TBD | Upcoming    | R      | Still in the design phase. If long term taxiway closures are encountered, capacity could be reduced due to the fact RWY 17L/35R could not be accessed. |



|   | Project                | 2020 |     |     | 2021 |     |     |     |     |     |     |     |     |     |     |     | 2022 |     |     |     |     | 2023 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|---|------------------------|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
|   |                        | OCT  | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN  | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |  |  |
| A | TWYs N & J Deicing Pad | G    | G   | G   | G    | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   | G    | G   | G   | G   | G   | G    | G   | G   |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| B | Ramp Area              | G    | G   |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| C | TWY V                  | T    | T   |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| D | RWY 9/27 Status Lights |      |     |     |      |     |     |     |     |     |     |     | G   | G   | G   | G   | G    | G   | G   | G   | G   | G    | G   | G   |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| E | TWY A                  |      |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |

| Project | Description of Work   | Estimated Dates               | Status      | Impact | Notes  |
|---------|---|-------------------------------|-------------|--------|--|
| A       | TWYs N & J Deicing Pad<br>TWYs N and J, deicing (glycol collection) pad between RWYs 36L and 36C.<br>Phase 1 began September 2017, Phase 2 set to begin Summer 2020.                    | September 2017 to August 2022 | In Progress | G      | Area affects approaches during CAT 2/3 conditions. Airport will lower crane(s) when anticipating CAT 2/3 conditions to mitigate impact. However, some CAT 2/3 conditions may still add impact.                                       |
| B       | Ramp Area<br>Fed Ex ramp western area expansion.  | 02/01/2019 to 11/30/2020      | Complete    | G      | Sub projects associated with this operation expected to fluidly affect taxi operations. Crane operations planned.  |
| C       | TWY V<br>TWY V closed between TWY N and TWY V3.   | 05/18/2020 to 11/15/2020      | Complete    | T      |  |
| D       | RWY 9/27 Status Lights<br>Runway 9/27 runway status lights (RWSL) system will be installed.   | 09/01/2021 to 09/01/2022      | Upcoming    | G      | Construction dates are TBD. Impact level will be changed if there is any effect on capacity or delays.   |
| E       | TWY A<br>TWY A (West) full-depth reconstruction of approx. 4,125 ft. Includes demolition, grading, drainage, airfield signage, markings, and electrical lighting.<br>Duration 4 months. | Summer 2022                   | Upcoming    | G      | Preconstruction meeting with airport authorities and discussion included construction dates and potential impacts. Construction will be done in sections. Impact level will be changed if there is any effect on capacity or delays. |

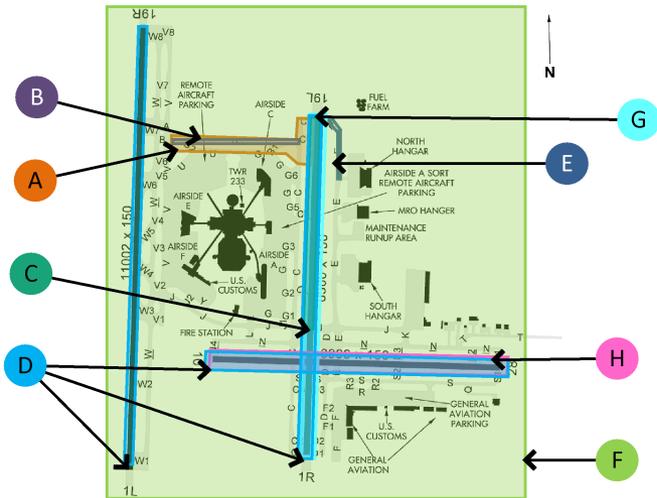
G No capacity effect

Y Reduced Capacity and Delay impact

R Reduced Capacity and Greater Delay Impact

T To be determined





| Project                                      | 2020 |     |     | 2021 |     |     |     |     |     |     |     |     |     |     |     | 2022 |     |     |     |     |     |     |     |     |     |     |     | 2023 |     |     |     |     |     |     |     |     |  |  |  |
|--|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|
|  | OCT  | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |  |  |  |
| <b>A</b> TWY A Bridge                        | G    | G   | G   | G    | G   | G   | G   | G   |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |  |  |  |
| <b>B</b> TWY B                               | Y    | Y   | Y   | Y    | Y   | Y   | Y   |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |  |  |  |
| <b>C</b> TWY E Repairs                       | G    | G   |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |  |  |  |
| <b>D</b> Electrical Vault and Runway Grading |      |     |     |      |     |     |     |     | Y   | Y   | Y   | Y   | Y   | Y   |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |  |  |  |

| Project                                      | Description of Work  | Estimated Dates               | Status      | Impact   | Notes   |
|--|--|-------------------------------|-------------|----------|---|
| <b>A</b> TWY A Bridge                        | TWY A bridge closed for construction. TWY B closed between TWY C and TWY V. Restricted to Group III or smaller thru 2/2021. Associated TWYs B8, C6, C7 closed 2/2020 – 5/2020. | 12/08/2019 to 05/01/2021      | In Progress | <b>G</b> |   |
| <b>B</b> TWY B                               | TWY B closed between TWY C and TWY V to aircraft with wingspans greater than 118 feet.   | 04/02/2020 to 04/01/2021      | In Progress | <b>Y</b> |   |
| <b>C</b> TWY E Repairs                       | Taxiway E will close in phases from the approach end of RWY 19L to TWY J for repair.   | October 2020 to November 2020 | Complete    | <b>G</b> | Mill and overlay of TWY E.  |
| <b>D</b> Electrical Vault and Runway Grading | RWY 1L/19R, RWY 1R/19L and RWY 10/28 will close at different times to address drainage issues on each runway.  | Summer 2021 to 2021 TBD       | Upcoming    | <b>Y</b> | Repair drainage issues on RWYs 1L, 1R and 10 approach.<br>Repair drainage issues at W4, C3 and RWY 1L RSA (West).<br>Bring 18 Electrical vault covers to grade. |



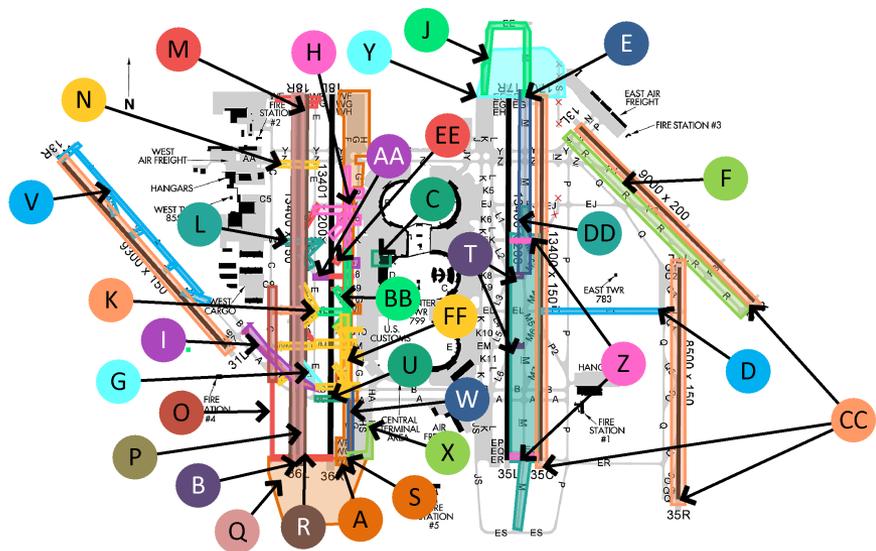












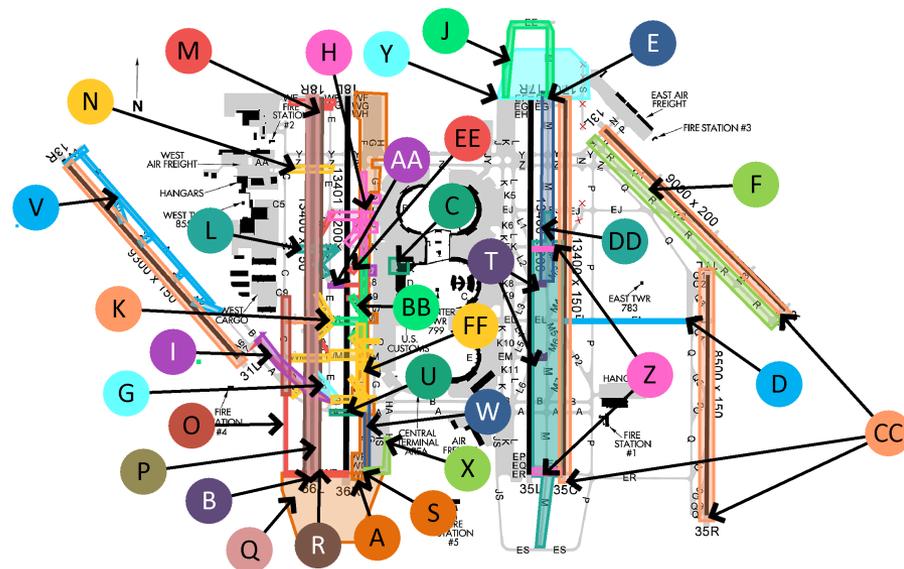
| Project                        | 2020 |     |     | 2021 |     |     |     |     |     |     |     |     |     |     |     | 2022 |     |     |     |     |     |     |     |     |     |     |     | 2023 |     |     |     |     |     |     |     |     |
|--------------------------------|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|
|                                | OCT  | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
| Q RWY 36L ALSF-2               |      |     |     |      |     | G   | G   | G   | G   | G   | G   |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |
| R RWY 18R/36L Rehab Completion |      |     |     |      |     |     |     | Y   | Y   | Y   | Y   |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |
| S Southwest End-Around Taxiway |      |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |

| Project                        | Description of Work   | Estimated Dates          | Status   | Impact | Notes   |
|--------------------------------|---|--------------------------|----------|--------|---|
| Q RWY 36L ALSF-2               | Remove and replace Runway 36L MALSR with ALSF-2   | 03/01/2021 to 08/31/2021 | Upcoming | G      |   |
| R RWY 18R/36L Rehab Completion | RWY 18R/36L closed for completion of rehabilitation. Closed nightly between 2300 to 0600 (as needed). | 05/01/2021 to 08/30/2021 | Upcoming | Y      | Nightly work estimated for 122 Calendar Days.       |
| S Southwest End-Around Taxiway | RWYs 36L and 36R Southwest End-Around Taxiway (EAT). Package I, 3/1/2021 to 3/1/2023.                 | 2023 TBD                 | Upcoming | Y      | Project deferred UTA. Not planned until 2023 start. |
|                                | Runway 36L & 36R South Section. Package II.   | 07/01/2023 to 09/30/2025 | Upcoming | G      |   |









| Project | 2020                               |     |     | 2021 |     |     |     |     |     |     |     |     |     |     |     | 2022 |     |     |     |     |     |     |     |     |     |     |     | 2023 |     |     |     |     |     |     |     |     |  |  |  |
|---------|------------------------------------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|
|         | OCT                                | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |  |  |  |
| DD      | TWY M South                        |     |     | Y    | Y   | Y   |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |  |  |  |
| EE      | TWYs F2, G8, and G9.               |     |     | Y    | Y   | Y   |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |  |  |  |
| FF      | TWYs B, F, F5, F6, G10, G11 and WM |     |     | T    | T   | T   | T   | T   |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |  |  |  |

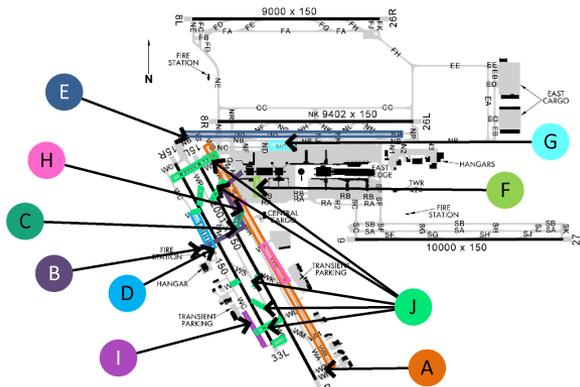
| Project | Description of Work                | Estimated Dates   | Status                      | Impact      | Notes |  |
|---------|------------------------------------|---|-----------------------------|-------------|-------|--|
| DD      | TWY M South                        | TWY M South closed for construction.  | 10/30/2019 to 12/31/2020    | In Progress | Y     | Lessened access to high speed turn-offs in south flow will increase taxi-in times. |
| EE      | TWYs F2, G8, and G9.               | TWYs F2, G8 and G9 closed between RWY 18L/36R and TWYs F and G.   | 05/02/2020 to 12/31/2020    | Complete    | Y     |  |
| FF      | TWYs B, F, F5, F6, G10, G11 and WM | TWY F closed between TWY F4 and TWY A.<br>TWYs F5 and F6 closed.<br>TWYs G10 and G11 closed between TWYs F and G.<br>TWYs B and WM closed between TWYs E and G. | 10/22/2020 to February 2021 | In Progress | T     |  |











| Project   | 2020 |     |     | 2021 |     |     |     |     |     |     |     |     |     |     |     | 2022 |     |     |     |     |     |     |     |     |     |     |     | 2023 |     |     |     |     |     |     |     |     |   |   |   |
|---|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|---|---|---|
|   | OCT  | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |   |   |   |
| <b>A</b> TWY WB Reconstruction                  | G    | G   | G   | G    | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |   |   |   |
| <b>B</b> Airport Sanitary Sewer Mains           | G    | G   | G   | G    | G   | G   | G   | G   | G   | G   | G   | G   |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |   |   |   |
| <b>C</b> TWY WG (part of airport sewer project) | T    | T   | T   | T    | T   | T   |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |   |   |   |
| <b>D</b> Conoco Hangar                          |      |     |     | G    | G   | G   | G   |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |   |   |   |
| <b>E</b> TWY NA                                 |      |     |     | R    | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R    | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R   | R    | R   | R   | R   | R   | R   | R   | R   | R   | R | R | R |

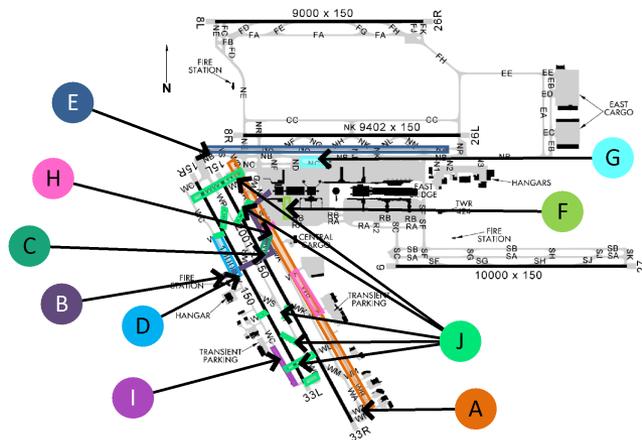
| Project   | Description of Work  | Estimated Dates               | Status      | Impact   | Notes   |
|---|--|-------------------------------|-------------|----------|---|
| <b>A</b> TWY WB Reconstruction                  | Complete reconstruction of TWY WB.   | Jan 2020 TBD to 12/03/2021    | In Progress | <b>G</b> | Phased closures in effect..   |
|   | Complete reconstruction of Taxiway WB.   | Jan 2020 TBD to 12/03/2021    | In Progress | <b>G</b> | Phased closures in effect.  |
| <b>B</b> Airport Sanitary Sewer Mains           | Rehabilitation of sewer line from Terminal A Southbound, then West of Taxilane (TWY) WC. | 05/01/2020 to Summer 2021 TBD | In Progress | <b>G</b> | Estimated project duration 419 days. Will affect Runway 15L/15R for nightly closures.   |
| <b>C</b> TWY WG (part of airport sewer project) | TWY WG closed between RWY 15L/33R and TWY WA.  | 09/09/2020 to 03/31/2021      | In Progress | <b>T</b> |   |
| <b>D</b> Conoco Hangar                          | Twy WC will be closed between TWYs WR and to connect the ramp area to the taxiway.       | 01/11/2021 to 04/10/2021      | Upcoming    | <b>G</b> | Aircraft that park on the west side of RWY 15R will have to cross RWY 15R to get to the approach end of either RWY 15R or 15L for departure, as well as any aircraft that lands will have to cross RWY 15R to get to their parking destination. This taxiway closure does not restrict any departures off RWY15R. |
| <b>E</b> TWY NA                                 | TWY NA phased closures in conjunction for widening to accommodate ADG VI aircraft.       | 2021 TBD to 2022 TBD          | Upcoming    | <b>R</b> | Expecting project to start late 2020 or early 2021. Runway 8R/26L will be closed at some point during this project for tie-in taxiways and lighting.  |

**G** No capacity effect

**Y** Reduced Capacity and Delay impact

**R** Reduced Capacity and Greater Delay Impact

**T** To be determined



| Project                           | 2020 |     |     | 2021 |     |     |     |     |     |     |     |     |     |     |     | 2022 |     |     |     |     |     |     |     |     |     |     |     | 2023 |     |     |     |     |     |     |     |     |  |  |  |  |
|-----------------------------------|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|
|                                   | OCT  | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |  |  |  |  |
| F Taxilane RC                     | G    |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |  |  |  |  |
| G TWY NC                          | T    | T   | T   |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |  |  |  |  |
| H TWYs WB - Phase 6 Closure       | T    | T   | T   | T    | T   | T   |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |  |  |  |  |
| I TWY WC                          | T    |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |  |  |  |  |
| J TWYs WP, WD, WW, WL, WQ, WU, WT | T    |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |  |  |  |  |

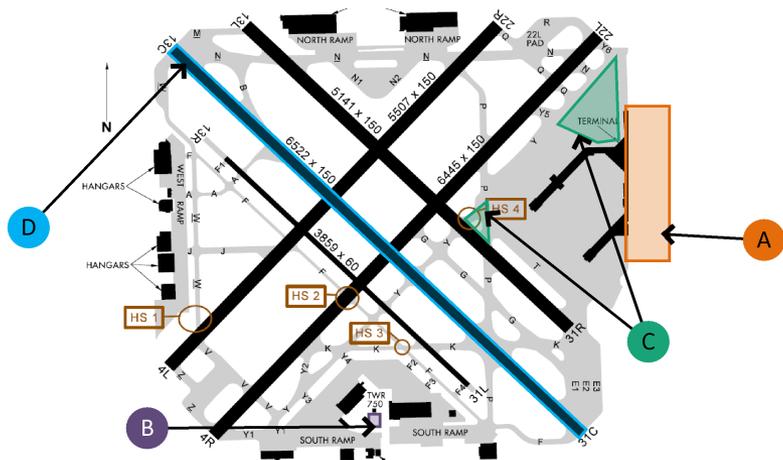
| Project                           | Description of Work  | Estimated Dates          | Status      | Impact | Notes |
|-----------------------------------|--|--------------------------|-------------|--------|-------|
| F Taxilane RC                     | Apron Taxilane RC closed between gate A19 and A20 daily 0300-1200.                           | 03/09/2020 to 10/31/2020 | Complete    | G      |       |
| G TWY NC                          | TWY NC closed between NC Spot 9 to TWY NG to aircraft with wingspans greater than 130 feet.  | 07/17/2020 to 12/31/2020 | In Progress | T      |       |
| H TWYs WB - Phase 6 Closure       | TWY WB closed between TWY WH and TWY WK.   | 08/03/2020 to 03/30/2021 | In Progress | T      |       |
| I TWY WC                          | TWY WC closed south 2200 feet.   | 08/03/2020 to 10/15/2020 | Complete    | T      |       |
| J TWYs WP, WD, WW, WL, WQ, WU, WT | TWYs WP, WD, WW, WL, WQ, WU, and WT closed between RWY 15L/33R or 15R/33L and TWYs WC or WP. | 08/03/2020 to 10/15/2020 | Complete    | T      |       |

G No capacity effect

Y Reduced Capacity and Delay impact

R Reduced Capacity and Greater Delay Impact

T To be determined



| Project  | 2020 |     |     | 2021 |     |     |     |     |     |     |     |     | 2022 |     |     |     |     |     |     |     |     | 2023 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|--|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
|  | OCT  | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT  | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL  | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |  |  |
| <b>A</b> Terminal Parking Garage               | G    | G   | G   |      |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| <b>B</b> RTR Relocation                        | G    | G   | G   | G    | G   | G   | G   | G   | G   | G   |     |     |      |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| <b>C</b> Concourse B & C, TWY Y Reconstruction | Y    | Y   | Y   | Y    | Y   | Y   | Y   | Y   | Y   | Y   |     |     |      |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
| <b>D</b> RWY 13C/31C                           |      |     |     |      |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |

| Project  | Description of Work  | Estimated Dates          | Status      | Impact   | Notes  |
|--|--|--------------------------|-------------|----------|--|
| <b>A</b> Terminal Parking Garage               | Expansion of the existing terminal parking structure.  | 01/01/2018 to 12/31/2020 | In Progress | <b>G</b> | This project should have minimal impact. During occasional weather periods the RNAV 22L approach may have increased minimums.  |
| <b>B</b> RTR Relocation                        | Remote Transmitter Receiver (RTR) to be relocated from existing location to existing GA Apron. Moving RTR from middle of the airfield to the southwest corner of the airfield.<br><br>Soil borings remain TBD. Estimated commissioning is Summer 2021. | 2020 TBD to 07/01/2021   | In Progress | <b>G</b> | Project will be scheduled for limited impact. Main transmitters replaced and preliminary antenna grounding completed 2/12/2020. Next phase to replace standby transmitters scheduled for 3/10/2020.            |
| <b>C</b> Concourse B & C, TWY Y Reconstruction | Improve pavement infrastructure by demolition/replacement of portions of Concourse B, C, and TWY Y.  | 09/06/2020 to July 2021  | In Progress | <b>Y</b> | Expecting minimal reduced capacity and delay impact due to the lower traffic volumes at this time.<br><br>Construction near the Terminal Building has shut down for the season. Work to resume in Spring 2021. |
| <b>D</b> RWY 13C/31C                           | RWY 13C/31C Pavement Rehabilitation.   | 2024 TBD to 2025 TBD     | Upcoming    | <b>Y</b> |  |

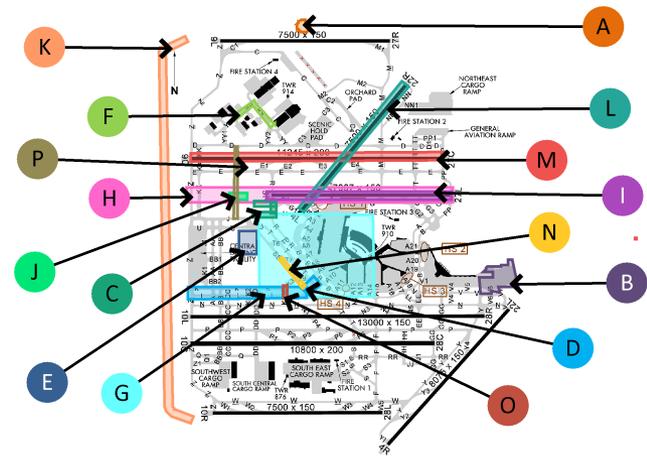








IATA Level 2



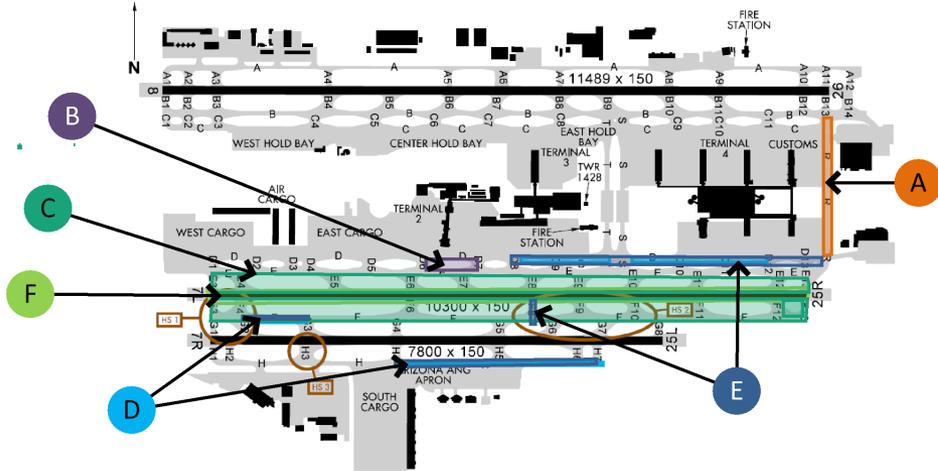
| Project                            | 2020 |     |     | 2021 |     |     |     |     |     |     |     |     |     |     |     | 2022 |     |     |     |     |     |     |     |     |     |     |     | 2023 |     |     |     |     |     |     |     |     |  |
|------------------------------------|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|--|
|                                    | OCT  | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |  |
| <b>A</b> North ASDE                | G    | G   | G   | G    | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |  |
| <b>B</b> Terminal 5 M Extension    | G    | G   | G   | G    | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   | G    | G   | G   | G   | G   | G   | G   |     |     |     |     |     |      |     |     |     |     |     |     |     |     |  |
| <b>C</b> TWYs G, J and T           | G    | G   | G   | G    | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |  |
| <b>D</b> Core TWY Reconstruction   | Y    | Y   | Y   | Y    | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y    | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y    | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   |  |
| <b>E</b> FAA Facilities Relocation |      |     |     | G    | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   | G    | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   | G    | G   | G   | G   | G   | G   | G   | G   | G   |  |

| Project                            | Description of Work   | Estimated Dates           | Status      | Impact   | Notes  |
|------------------------------------|---|---------------------------|-------------|----------|--|
| <b>A</b> North ASDE                | Construction of a new North ASDE SMR (airport surface detection radar antenna) site.  | 06/18/2018 to 2021 TBD    | In Progress | <b>G</b> | Construction delayed due to COVID-19.                                      |
| <b>B</b> Terminal 5 M Extension    | Demolition of existing airside and landside facilities. New airside apron and TWY improvements.   | January 2019 to July 2022 | In Progress | <b>G</b> | No further closures expected in association with terminal extension.       |
| <b>C</b> TWYs G, J and T           | Taxiways G, J, T closed.  | 06/01/2020 to 2021 TBD    | In Progress | <b>G</b> |  |
| <b>D</b> Core TWY Reconstruction   | Reconstructing TWYs K and L into TWYs A and B.  | Jul 2020 TBD to 2024 TBD  | In Progress | <b>Y</b> | Alternate taxi routes to be utilized during multi-phase construction plan. |
| <b>E</b> FAA Facilities Relocation | Relocation of FAA facilities: Remote Transmitter Receiver (RTR)-U, Low Level Wind Shear Alert System (LLWAS)-16, Airport Surface Detection Equipment, Model X (ASDE-X), and Fixed Target Reflector (FTR). | 2021 TBD to 2022 TBD      | Upcoming    | <b>G</b> | Construction currently on hold.  |









|   | Project                            | 2020 |     |     | 2021 |     |     |     |     |     |     |     |     |     |     |     | 2022 |     |     |     |     |     |     |     |     | 2023 |     |     |     |     |     |     |     |     |     |     |     |  |  |  |
|---|------------------------------------|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|
|   |                                    | OCT  | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT  | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |  |  |  |
| A | TWY R Restrictions                 | G    | G   | G   | G    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |  |  |  |
| B | TWY D                              | G    | G   | G   | G    | G   | G   | G   |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |  |  |  |
| C | TWY E and F Infield Paving Project | G    | G   |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |  |  |  |

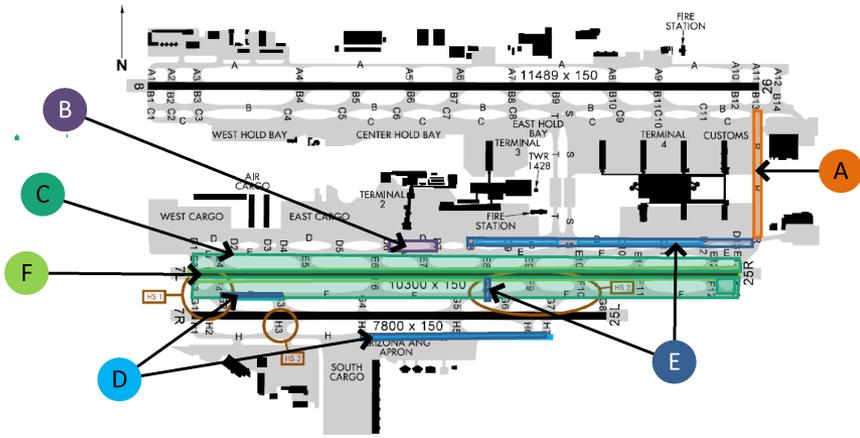
| Project | Description of Work                | Estimated Dates  | Status                   | Impact      | Notes |   |
|---------|------------------------------------|--|--------------------------|-------------|-------|---|
| A       | TWY R Restrictions                 | Construction continues, but the daytime restriction to aircraft movement is complete. This is in support of the SWA Hangar expansion. Apr. 1, 2020 - Jan. 8, 2021. | 08/29/2019 to 01/08/2021 | In Progress | G     | Some nightly Romeo closures for hauling.  |
| B       | TWY D                              | TWY D restriction between D6 and D7.   | 01/01/2020 to 04/12/2021 | In Progress | G     | TWY D between D6 and D7 is restricted to aircraft with wingspans less than 118 feet.  |
| C       | TWY E and F Infield Paving Project | Paving of all infields between Taxiway F and Rwy 7L/25R and Taxiway E and Rwy 7L/25R.  | 08/30/2020 to 11/16/2020 | Complete    | G     | All of the paving work will be accomplished during the nighttime and low demand hours. Overnight closures and daytime restrictions anticipated. Will impact the localizer for RWY 7L for about a month. |

**G** No capacity effect

**Y** Reduced Capacity and Delay impact

**R** Reduced Capacity and Greater Delay Impact

**T** To be determined

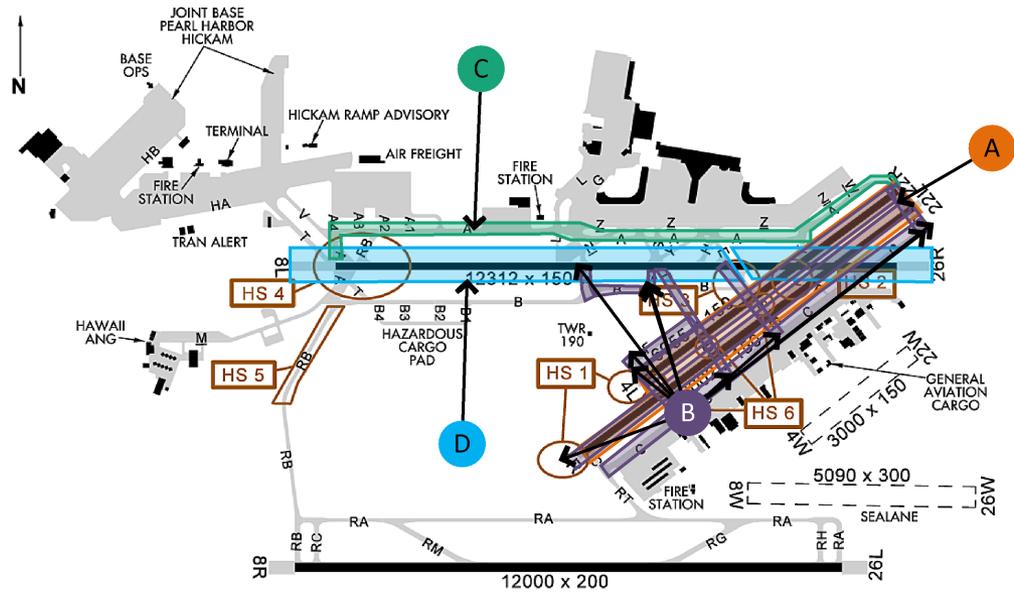


| Project                      | 2020 |     |     | 2021 |     |     |     |     |     |     |     |     |     |     |     | 2022 |     |     |     |     |     |     |     |     | 2023 |     |     |     |     |     |     |     |     |     |     |     |  |  |  |
|------------------------------|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|
|                              | OCT  | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT  | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |  |  |  |
| D TWYs D, F and H Restricted | Y    | Y   | Y   | Y    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |  |  |  |
| E TWYs D, F, F8, and H       | T    | T   | T   | T    |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |  |  |  |
| F RWY 7L/25R                 | Y    |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |  |  |  |

| Project | Description of Work        | Estimated Dates  | Status                   | Impact   | Notes |  |
|---------|----------------------------|--|--------------------------|----------|-------|--|
| D       | TWYs D, F and H Restricted | Multiple TWY closures with aircraft wingspan restrictions.   | 01/01/2019 to 01/01/2021 | Complete | Y     | TWY F closed between G2 and G3 to aircraft with wingspans greater than 135 feet.<br>TWY D closed between TWY S and C10 to aircraft with wingspans greater than 135 feet..<br>TWY D closed between TWY D8 and TWY T to aircraft with wingspans greater than 135 feet.<br>TWY H closed between TWY H4 and H7 to aircraft with wingspans greater than 170 feet. |
| E       | TWYs D, F, F8, and H       | TWYs D and F closed to aircraft with wingspans greater than 135 feet.<br>TWY H closed to aircraft with wingspans greater than 170 feet.<br>TWY F8 closed to aircraft exiting RWY 7L/25R. | 01/01/2020 to 01/01/2021 | Complete | T     |  |
| F       | RWY 7L/25R                 | Runway will be closed from late Friday night to early Monday morning to upgrade lighting systems to LED, upgrade signs and electrical systems and maintain pavement.                     | 05/11/2020 to 10/18/2020 | Complete | Y     | Normal AAR for both configurations will be reduced to allow departures and arrivals to share use of RWY 8/26.<br>VMC AAR:56; IMC AAR:40; Low IMC AAR: 36   |







| Project                                | 2020 |     |     | 2021 |     |     |     |     |     |     |     |     |     |     |     | 2022 |     |     |     |     |     |     |     |     |     |     |     | 2023 |     |     |     |     |     |     |     |     |   |   |   |
|--|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|---|---|---|
|  | OCT  | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |   |   |   |
| <b>A</b> RWYs 4L/22R & 4R/22L Lighting |      |     |     | G    | G   | G   | G   |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |   |   |   |
| <b>B</b> TWY/RWY Rehab                 |      |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y    | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y | Y |   |
| <b>C</b> TWY A Realignment             |      |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |   |   | T |

| Project                                | Description of Work  | Estimated Dates            | Status   | Impact   | Notes  |
|--|--|----------------------------|----------|----------|--|
| <b>A</b> RWYs 4L/22R & 4R/22L Lighting | Install Runway Guard Lights (RGL) for Runway Incursion Mitigation program (RIM).                       | 01/04/2021 to April 2021   | Upcoming | <b>G</b> | Awaiting completion of RWY 8L widening phase 1 to start project.                       |
| <b>B</b> TWY/RWY Rehab                 | Rehabilitate and correct RWY and TWY shoulders per Part 139 inspection. Tentative start February 2022. | 02/01/2022 to 01/02/2024   | Upcoming | <b>Y</b> | Cannot start till RWY 8L Phase 2 complete. Most of work occurs near 4L/22R and 4R/22L. |
| <b>C</b> TWY A Realignment             | TWY A realignment. Estimated start of construction is February 2023.                                   | February 2023 to July 2027 | Upcoming | <b>T</b> | Taxiway reconfigurations based on HNL geometry study completed May 2018.               |

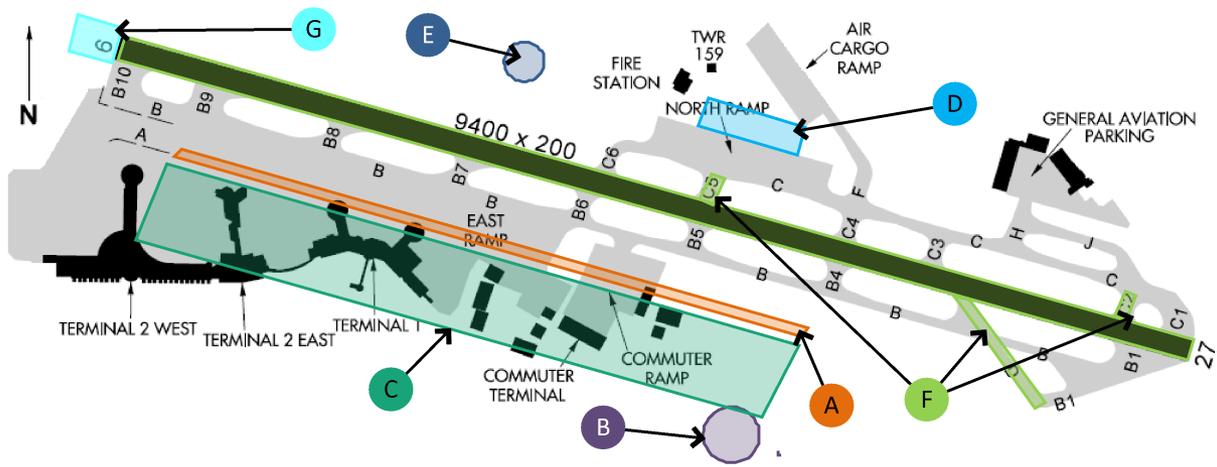






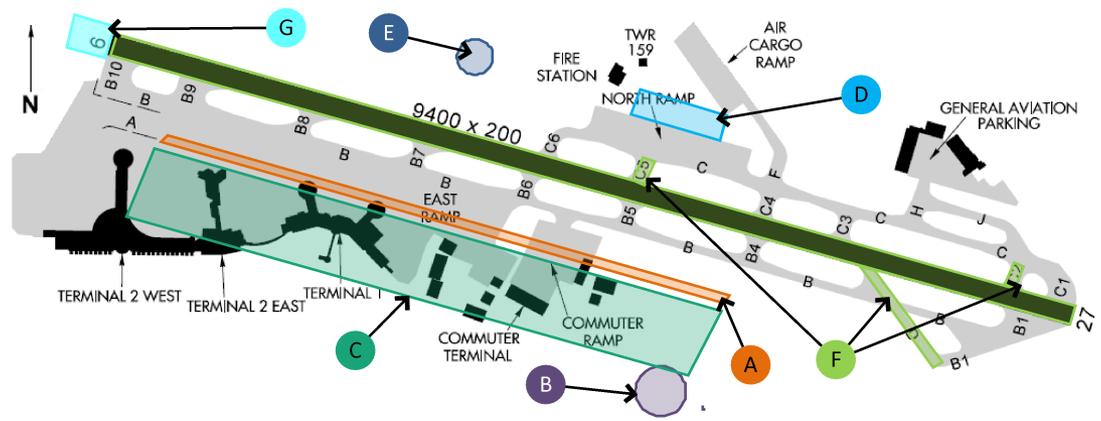






| Project                              | 2020 |     |     | 2021 |     |     |     |     |     |     |     |     |     |     |     | 2022 |     |     |     |     |     |     |     |     |     |     |     | 2023 |     |     |     |     |     |     |     |     |   |   |   |
|--------------------------------------|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|---|---|---|
|                                      | OCT  | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |   |   |   |
| <b>A</b> Hydrant Fuel Lines          | Y    | Y   | Y   | Y    | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y    | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y    | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y | Y | Y |
| <b>B</b> Electrical Vault Relocation | Y    | Y   | Y   | Y    | Y   | Y   | Y   | Y   |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |   |   |   |
| <b>C</b> Terminal Replacement        | Y    | Y   | Y   | Y    | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y    | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y    | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y | Y | Y |
| <b>D</b> New Cargo Facility          |      |     |     | Y    | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |   |   |   |

| Project                              | Description of Work  | Estimated Dates              | Status      | Impact   | Notes   |
|--------------------------------------|--|------------------------------|-------------|----------|---|
| <b>A</b> Hydrant Fuel Lines          | Installation of new hydrant fuel lines to Terminal 2 West end and continuing to New Terminal 1.  | 03/11/2019 to 05/31/2023     | In Progress | <b>Y</b> | Two to three gates unavailable during project as in-ground fuel lines are installed.  |
| <b>B</b> Electrical Vault Relocation | Electrical vault moved approximately 150 feet SE to allow for taxiway expansion.   | 08/01/2020 to 05/01/2021     | In Progress | <b>Y</b> | Phased to avoid reduction in services/capabilities. Also relocation of security fences keeps equipment shelters inside the Air Operations Area (AOA). |
| <b>C</b> Terminal Replacement        | Airport will replace passenger terminals.  | October 2020 to January 2023 | In Progress | <b>Y</b> | Gates will be added before legacy gates are demolished.<br>Phase 1A consists of 19 new gates. Gates 1–2 will be nonoperational during construction.   |
| <b>D</b> New Cargo Facility          | Planned cargo facility at current transient aircraft parking location is being relocated due to line-of-sight issues with ATC. New structure is in preliminary planning phase, but should not pose any ATC issues. | 01/01/2021 to 10/31/2021     | Upcoming    | <b>Y</b> | SDIA is determining if they will be able to continue with the new proposal site as planned. 7460 is in review process                                 |

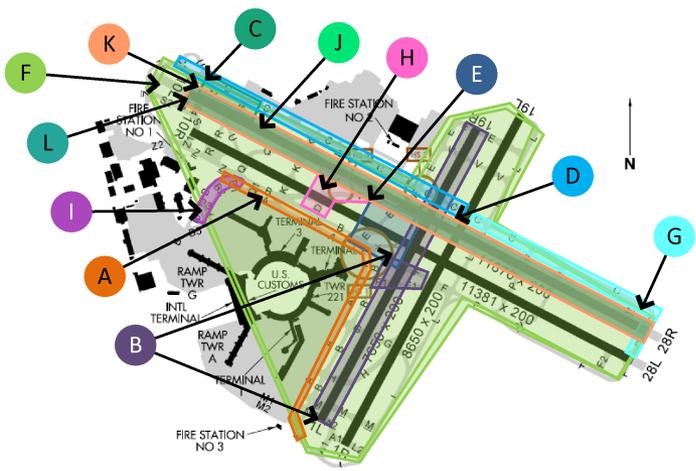


| Project              | 2020 |     |     | 2021 |     |     |     |     |     |     |     |     |     |     |     | 2022 |     |     |     |     |     |     |     |     |     |     |     | 2023 |     |     |     |     |     |     |     |     |  |  |  |
|----------------------|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|
|                      | OCT  | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |  |  |  |
| E Fuel Storage Tanks | G    | G   | G   | G    | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |  |  |  |
| F TWYs C2, C5 and D  | Y    | Y   | Y   | Y    | Y   | Y   | Y   |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |  |  |  |
| G EMAS Replacement   |      |     |     | Y    | Y   | Y   | Y   | Y   |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |  |  |  |

| Project              | Description of Work   | Estimated Dates          | Status      | Impact | Notes  |
|----------------------|---|--------------------------|-------------|--------|--|
| E Fuel Storage Tanks | Three new fuel storage tanks to be installed west of the ATCT.        | 06/23/2020 to 12/01/2021 | In Progress | G      | Construction expected to last 18 months, three new tanks to be installed. Upon project completion the two existing tanks will be taken out of service for 12 months to perform maintenance.  |
| F TWYs C2, C5 and D  | TWY C2, TWY C5, and TWY D. RWY 9/27 closed Mon-Sat 0000 to 0500L      | 10/01/2020 to 04/30/2021 | In Progress | Y      | TWY C2 will require additional space on final; if LUAW aircraft is required to exit the runway, it will have to taxi 2000 feet down the runway to exit at TWY C3. Expect TMIs to regulate inbound flow for SAN ATCT while meeting two (2) curfews. Departure Curfew at 2330L and an Arrival Curfew at 0000L. The increased demand attempting to get into the airport prior to 0000L continues to cause significant departure delays. |
| G EMAS Replacement   | Engineered Materials Arresting System (EMAS) removal and replacement. | 01/01/2021 to 05/03/2021 | Upcoming    | Y      | This will affect the RWY 9 Medium Intensity Approach Lighting System (MALSR) 1200 feet and 1400 feet alignment indicator bars. Additional impact to RWY 27 LOC is possible. 7460 is in review process and independent consultant is determining the deconstruction and rebuild process. Start date may move further into 2021.   |



IATA Level 2

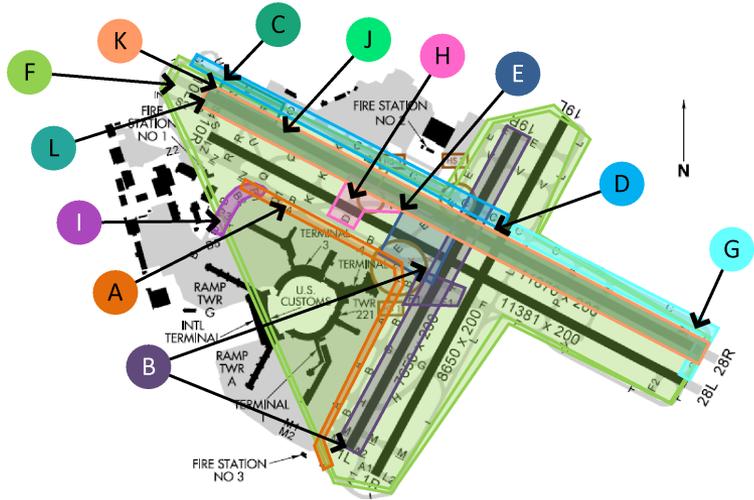


| Project                          | 2020 |     |     | 2021 |     |     |     |     |     |     |     |     |     |     |     | 2022 |     |     |     |     |     |     |     |     |     |     |     | 2023 |     |     |     |     |     |     |     |     |   |   |   |
|----------------------------------|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|---|---|---|
|                                  | OCT  | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |   |   |   |
| <b>A</b> TWY A                   |      |     |     |      |     |     |     | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y    | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   | Y   |     |      |     |     |     |     |     |     |     |     |   |   |   |
| <b>B</b> RWY 1L/19R, TWYs F & F1 |      |     |     |      |     |     |     |     |     |     |     | Y   | Y   | Y   |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |   |   |   |
| <b>C</b> TWY C3 and R            |      |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     | R   | R   | R   | R    | R   | R   |     |     |     |     |     |     |   |   |   |
| <b>D</b> TWY C (West Area)       |      |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     | Y | Y | Y |
| <b>E</b> TWYs E & J              |      |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |   |   |   |

| Project                          | Description of Work  | Estimated Dates                  | Status   | Impact   | Notes  |
|----------------------------------|--|----------------------------------|----------|----------|--|
| <b>A</b> TWY A                   | TWY A reconstruction.  | 05/01/2021 to 11/30/2022         | Upcoming | <b>Y</b> | Future project, exact dates unknown. Project being considered for 2021 or 2022 implementation due to reduced operations caused by COVID pandemic.<br><br>Lowest priority among 2021/22 Sponsor projects. |
| <b>B</b> RWY 1L/19R, TWYs F & F1 | RWY 1L/19R closed for rehabilitation/realignment of non-standard taxiway geometry. TWY F1 will be TWY W, TWY W will be TWY C2. | September 2021 to 11/01/2021     | Upcoming | <b>Y</b> | Repaving runway and realigning taxiways in order to rectify deficiencies. Impact will be closure of 1L or 1R when the new taxiways are constructed to tie-in the runways.                                |
| <b>C</b> TWY C3 and R            | TWYs C3 and R closed for realignment/reconstruction.   | Fall 2022 TBD to Winter 2023 TBD | Upcoming | <b>R</b> | Project may be combined with RWY 10L/28R project. Exact dates unknown.   |
| <b>D</b> TWY C (West Area)       | TWY C realignment/reconstruction on the West side of the airfield. Realign TWY C, 50 feet away from RWY 10L/28R.               | 04/01/2023 to 06/01/2023         | Upcoming | <b>Y</b> |  |
| <b>E</b> TWYs E & J              | TWYs E and J reconstruction.   | Fall 2023 TBD                    | Upcoming | <b>Y</b> | Future project, exact dates unknown.   |

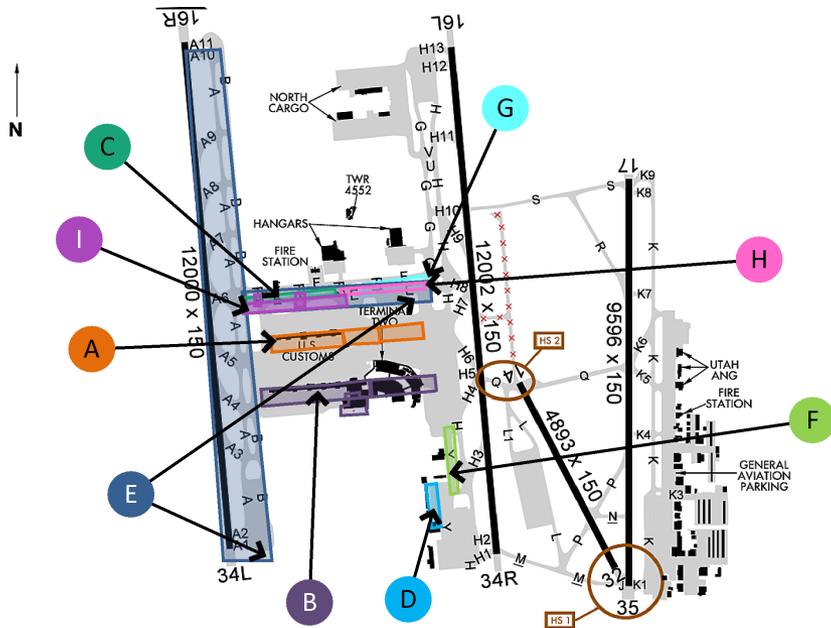


IATA Level 2



|   | Project                          | 2020 |     |     | 2021 |     |     |     |     |     |     |     |     |     |     |     | 2022 |     |     |     |     |     |     |     |     |     |     |     | 2023 |     |     |     |     |     |     |     |     |  |  |  |
|---|----------------------------------|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|
|   |                                  | OCT  | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |  |  |  |
| K | RWY 10L/28R Rehab - Phases 1 & 2 | R    | R   | R   |      |     | R   | R   | R   | R   | R   | R   | R   | R   |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |  |  |  |
| L | RWY 10L/28R                      | R    |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |  |  |  |

| Project | Description of Work              | Estimated Dates   | Status                      | Impact   | Notes |  |
|---------|----------------------------------|---|-----------------------------|----------|-------|--|
| K       | RWY 10L/28R Rehab - Phases 1 & 2 | RWY 10L/28R closed for rehabilitation at intersections 1L/19R and 1R/19L.<br>Shortened runway and weekend closures. | 10/03/2020 to December 2020 | Complete | R     | Phase 1 confirmed, SEC filed by sponsor.   |
|         |                                  | RWY 10L/28R Phase 2 will rehabilitate the remainder of the RWY not performed during phase 1.                        | 03/01/2021 to 10/31/2021    | Upcoming | R     | Exact Spring 2021 start date unknown, but could be as early as March 1. Phase II implementation expedited due to reduced operations caused by COVID pandemic   |
| L       | RWY 10L/28R                      | RWY 10L/28R closed for rehabilitation. Shortened runway and weekend closures.                                       | 10/08/2020 to 10/16/2020    | Complete | R     | October 8th, 2020 at 2100 PDT, Runway 10L-28R and Runway 1L-19R will close for 4 days, under Phase A. Upon completion of Phase A work, Runway 1L-19R will reopen for operation.<br><br>Runway 10L-28R and Runway 1R-19L will close for the next 4 days, under Phase B. All runways are expected to reopen and be back to normal operation on Thursday, October 15th at 2100 PDT.<br><br>Post paving night time work will take place from October 16th to October 20th. All night time closure periods are from 2000 to 0800 the following day. |

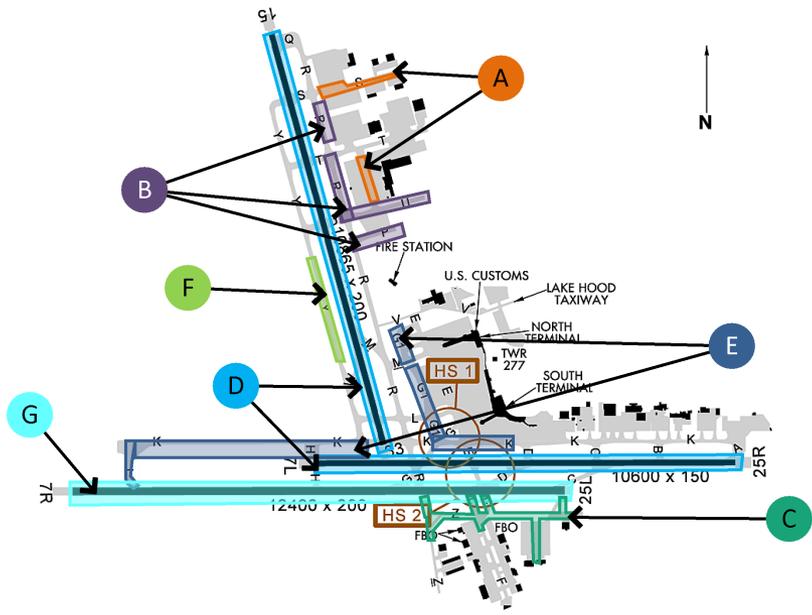


| Project          | 2020 |     |     | 2021 |     |     |     |     |     |     |     |     |     |     |     | 2022 |     |     |     |     |     |     |     |     |     |     |     | 2023 |     |     |     |     |     |     |     |     |   |  |  |
|------------------|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|---|--|--|
|                  | OCT  | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |   |  |  |
| A North Terminal | G    | G   | G   | G    | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   | G    | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   | G    | G   | G   | G   | G   | G   | G   | G   | G   |   |  |  |
| B South Terminal | G    | G   | G   | G    | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   | G    | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   | G    | G   | G   | G   | G   | G   | G   | G   | G   | G |  |  |

| Project | Description of Work   | Estimated Dates       | Status      | Impact | Notes   |
|---------|---|-----------------------|-------------|--------|---|
| A       | North Terminal<br>North terminal concourse and apron redevelopment.<br>First phase: 20 gates<br>Second phase: 11 gates  | June 2017 to 2024 TBD | In Progress | G      | Terminal redevelopment program. New concourses will accommodate larger planes. First phase (West side) to open in Fall 2020. Second phase to open in 2023/24.   |
| B       | South Terminal<br>South terminal concourse and apron redevelopment.<br>First phase: 25 gates (+6 international gates).<br>Second phase: 22 gates. Demolition of existing three terminals. | June 2017 to 2024 TBD | In Progress | G      | Terminal redevelopment program. New concourses will accommodate larger planes, including doubling international capable gates from three (3) to six (6). 78 gates will have jet bridges. 1st phase (West) opening fall 2020. 2nd phase (East) opening 2024. |



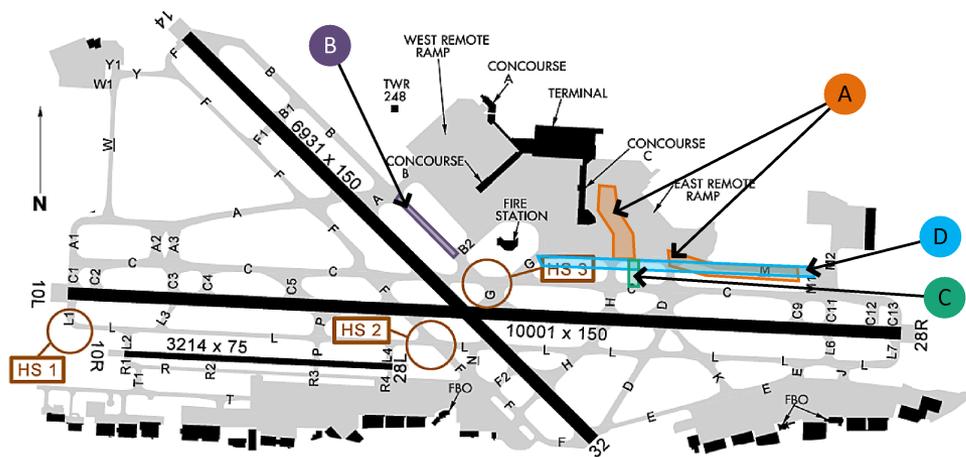




| Project                         | 2020 |     |     | 2021 |     |     |     |     |     |     |     |     |     |     |     | 2022 |     |     |     |     |     |     |     |     |     |     |     | 2023 |     |     |     |     |     |     |     |     |  |  |  |
|---------------------------------|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|
|                                 | OCT  | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |  |  |  |
| <b>A</b> TWY S & FedEx Taxilane |      |     |     |      |     |     | Y   | Y   | Y   | Y   | Y   | Y   |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |  |  |  |
| <b>B</b> TWYs R/U/P             |      |     |     |      |     |     |     |     | G   |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |  |  |  |
| <b>C</b> TWY Z                  |      |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |  |  |  |

| Project  | Description of Work    | Estimated Dates  | Status                   | Impact   | Notes  |
|----------|------------------------|--|--------------------------|----------|--|
| <b>A</b> | TWY S & FedEx Taxilane | FedEx Taxilane and TWY S construction from April 2021- September 2021.   | 04/01/2021 to 09/30/2021 | Upcoming | <b>Y</b><br>FedEx taxilane construction Apr 1-September 30, 2021.<br>TWY S Reconstruction May 15-September 30, 2021. Minor delays due to taxiway work. |
| <b>B</b> | TWYs R/U/P             | TWY s R/U/P intermittent closures for sealcoating.   | 06/01/2021 to 06/30/2021 | Upcoming | <b>G</b><br>4-5 day intermittent closures.   |
| <b>C</b> | TWY Z                  | TWY Z East/West extension/reconstruction and associated TWYs/TXLs to accommodate Airplane Design Group (ADG VI) TWY R extension (West side). | 2023 TBD                 | Upcoming | <b>T</b><br>Project includes road alignments parallel and South of TWY Z.  |





| Project                                       | 2020 |     |     | 2021 |     |     |     |     |     |     |     |     |     |     |     | 2022 |     |     |     |     |     |     |     |     | 2023 |     |     |     |     |     |     |     |     |     |     |     |  |  |  |
|---|------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|
|   | OCT  | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN  | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT  | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |  |  |  |
| <b>A</b> TWY and Apron Areas                  | G    | G   | G   |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |  |  |  |
| <b>B</b> NE Field Improvement Project - TWY B | G    | G   | G   | G    | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   | G   |      |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |  |  |  |
| <b>C</b> NE Field Improvement Project -TWY C8 | G    |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |  |  |  |
| <b>D</b> TWY M Restricted                     |      | T   | T   | T    | T   | T   | T   | T   | T   | T   | T   | T   | T   | T   | T   |      |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |  |  |  |

| Project                                       | Description of Work  | Estimated Dates              | Status      | Impact   | Notes  |
|---|--|------------------------------|-------------|----------|--|
| <b>A</b> TWY and Apron Areas                  | Non-movement area and Apron rehabilitation. Repaving areas by concourse C and behind east remote parking.  | 08/22/2019 to 2020 TBD       | Complete    | <b>G</b> | The category IV air carrier aircraft park on western gates on Concourse C.                                     |
| <b>B</b> NE Field Improvement Project - TWY B | Taxiway B closed as part of Northeast Airfield Construction Project. TWY B closed between B2 and TWY A.<br><br>Taxiway B between B-2 and A Closed until further notice. DOA and contractor working on engineering solutions. | Sep 2020 TBD to 2021 TBD     | In Progress | <b>G</b> | Dates are tentative non-movement area has ongoing repavement. Multiple delays due to Covid-19 reported by DOA. |
| <b>C</b> NE Field Improvement Project -TWY C8 | Taxiway C-8 opens this fall. Delays due to drainage pipe, contractors and COVID 19.  | Sep 2020 TBD to Oct 2020 TBD | Complete    | <b>G</b> | Eliminates older taxi route that gave direct access to the main runway.  |
| <b>D</b> TWY M Restricted                     | TWY M closed between TWY C7 to TWY D to aircraft with wingspans greater than 118 feet.   | 11/20/2020 to 2021 TBD       | In Progress | <b>T</b> |  |