

Recommended Detroit Metropolitan Airport Capital Improvement Plan - Fiscal Years 2020 - 2024

Item No.	Project Description	Estimated Total Project Cost	Projected Expenses to 9/30/19	Memo: Total 5 Year CIP Expenditures \$ 615,754,000					FY 2025 to Completion
				FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	
Airfield									
1	Runway 3L/21R & Associated Taxiways Reconstruction	\$ 256,000,000	\$ 156,000,000	\$ 88,000,000	\$ 12,000,000	\$ -	\$ -	\$ -	\$ -
2	Taxiway Z Reconstruction & Relocation of Southern Portion Including Extension of Taxiway Service Road	19,000,000	7,500,000	500,000	11,000,000	-	-	-	-
3	Taxiway K Reconstruction Program	54,000,000	750,000	11,000,000	12,250,000	16,000,000	14,000,000	-	-
4	McNamara Apron Rehabilitation/Joint Repairs - CY 2020	15,000,000	-	15,000,000	-	-	-	-	-
5	McNamara Apron Rehabilitation/Joint Repairs - CY 2021	16,000,000	-	500,000	15,500,000	-	-	-	-
6	McNamara Apron Rehabilitation/Joint Repairs - CY 2022	16,000,000	-	500,000	-	15,500,000	-	-	-
7	McNamara Apron Rehabilitation/Joint Repairs - CY 2023	16,000,000	-	500,000	-	-	15,500,000	-	-
8	Hangar 516 & 518 Apron Reconstruction	2,250,000	300,000	1,950,000	-	-	-	-	-
9	McNamara Apron Modifications & New Hardstand Positions	25,000,000	19,200,000	5,800,000	-	-	-	-	-
10	Taxilanes U-9 & Q Rehabilitation - Phase 1	32,000,000	1,000,000	15,000,000	16,000,000	-	-	-	-
11	Taxilanes U-9 & Q Rehabilitation - Phase 2	41,000,000	-	-	500,000	-	20,500,000	15,000,000	5,000,000
12	Aircraft Remain Overnight (RON) Parking	14,000,000	7,000,000	7,000,000	-	-	-	-	-
13	Taxiway J Rehabilitation	7,500,000	-	500,000	7,000,000	-	-	-	-
14	Taxilane J-11 & 4R Deicing Pad Rehabilitation	17,500,000	-	500,000	-	17,000,000	-	-	-
15	Taxilane J-7 & J-8 Rehabilitation	15,000,000	-	500,000	-	-	-	14,500,000	-
16	Taxilane U-7 & U-8 Rehabilitation	18,000,000	-	500,000	-	-	-	-	17,500,000
	Airfield Sub-Total	564,250,000	191,750,000	147,750,000	74,250,000	48,500,000	50,000,000	29,500,000	22,500,000
Power Plants & Electrical Distribution System									
17	Utility Command Center & Remote Metering	6,500,000	575,000	1,500,000	2,000,000	2,425,000	-	-	-
18	Medium Voltage Transmission Lines for Primary Service to the North Campus & Airfield - Phase 1	18,500,000	1,000,000	12,500,000	5,000,000	-	-	-	-
19	Medium Voltage Transmission Lines for Primary Service to the North Campus & Airfield - Phase 2	3,250,000	-	250,000	3,000,000	-	-	-	-
20	South Power Plant Site Generators	10,000,000	-	-	-	-	-	500,000	9,500,000
21	North Campus Electrical Distribution	20,900,000	6,125,000	8,775,000	6,000,000	-	-	-	-
22	McNamara Terminal HVAC Re-commissioning Study	600,000	-	350,000	250,000	-	-	-	-
	Power Plants & Electrical Distribution System Sub-Total	59,750,000	7,700,000	23,375,000	16,250,000	2,425,000	-	500,000	9,500,000

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Parking & Ground Transportation Facilities									
23	Big Blue Parking Deck Rehabilitation - Phase 4	13,200,000	2,500,000	6,000,000	2,500,000	2,200,000	-	-	-
24	McNamara Parking Deck Rehabilitation - Phase 2	6,600,000	300,000	-	-	-	-	2,100,000	4,200,000
25	McNamara Parking Deck - Phase 3 Elastomeric Coating	8,000,000	300,000	1,700,000	1,700,000	1,700,000	1,700,000	900,000	-
26	Big Blue Deck Moving Walkway Replacement / Removal	6,000,000	-	500,000	3,500,000	2,000,000	-	-	-
27	Surface Lots LED Lighting Installation	3,000,000	350,000	-	-	1,250,000	1,400,000	-	-
28	North Terminal GTC Third Elevator & Escalator	1,250,000	-	250,000	1,000,000	-	-	-	-
29	Parking Lot Rehabilitation	6,700,000	150,000	1,700,000	3,000,000	1,500,000	350,000	-	-
30	Rogell Cell Lot Venture	5,600,000	-	500,000	5,100,000	-	-	-	-
31	McNamara Deck Concrete Wall Restoration	37,000,000	370,000	500,000	7,000,000	7,500,000	7,500,000	7,500,000	6,630,000
32	Parking Guidance System	<u>12,000,000</u>	-	-	<u>8,000,000</u>	<u>4,000,000</u>	-	-	-
Parking & Ground Transportation Facilities Sub-Total		99,350,000	3,970,000	13,650,000	31,300,000	19,150,000	10,450,000	10,000,000	10,830,000
Bridges & Roadways									
33	Bridges & Roadways Rehabilitation Program - CY 2020	5,000,000	-	5,000,000	-	-	-	-	-
34	Bridges & Roadways Rehabilitation Program - CY 2021	3,000,000	-	-	3,000,000	-	-	-	-
35	Bridges & Roadways Rehabilitation Program - CY 2022	6,000,000	-	-	-	6,000,000	-	-	-
36	Bridges & Roadways Rehabilitation Program - CY 2023	6,000,000	-	-	-	-	6,000,000	-	-
37	Roadway Overhead Sign Installation	8,500,000	250,000	-	4,125,000	4,125,000	-	-	-
38	Rogell Drive-Dingell Drive Connector	6,500,000	400,000	-	-	4,800,000	1,300,000	-	-
39	Roadway LED Lighting Installation	<u>6,000,000</u>	<u>600,000</u>	-	<u>1,200,000</u>	<u>1,200,000</u>	<u>1,200,000</u>	<u>900,000</u>	<u>900,000</u>
Bridges & Roadways Sub-Total		41,000,000	1,250,000	5,000,000	8,325,000	16,125,000	8,500,000	900,000	900,000
Security & Communications									
40	McNamara Terminal CBP CCTV	1,075,000	75,000	1,000,000	-	-	-	-	-
41	Perimeter Fence Cable System	2,000,000	75,000	750,000	750,000	425,000	-	-	-
42	Security System & Network Upgrades - Phases 2 through 5	<u>21,900,000</u>	<u>8,000,000</u>	<u>4,000,000</u>	<u>2,500,000</u>	<u>2,500,000</u>	<u>2,700,000</u>	<u>2,200,000</u>	-
Security & Communications Sub-Total		24,975,000	8,150,000	5,750,000	3,250,000	2,925,000	2,700,000	2,200,000	-

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Support Facilities									
43	Roof Replacement Plan	3,830,000	988,000	168,000	144,000	1,725,000	805,000	-	-
44	Building 348 (Executive Terminal) Partial Restoration	370,000	25,000	345,000	-	-	-	-	-
45	Fire Training Facility Restoration & Burn Pit Replacement	11,500,000	200,000	4,000,000	7,300,000	-	-	-	-
46	ARFF Station 100 Improvements	1,750,000	233,000	1,517,000	-	-	-	-	-
47	Snow Removal Equipment Storage Facility	8,000,000	-	2,000,000	6,000,000	-	-	-	-
48	Glycol Storage Tanks	3,000,000	200,000	500,000	2,300,000	-	-	-	-
	Support Facilities Sub-Total	28,450,000	1,646,000	8,530,000	15,744,000	1,725,000	805,000	-	-
Site Redevelopment & Demolitions									
49	Buildings 714, 714A & 714B (Former Metro Flight Buildings) Site Redevelopment & Demolition	1,600,000	-	540,000	-	1,060,000	-	-	-
50	Building 358 (Former Police Station) Demolition	3,000,000	1,400,000	1,600,000	-	-	-	-	-
51	LC Smith & Berry Terminals Demolition	22,500,000	13,500,000	9,000,000	-	-	-	-	-
	Site Redevelopment & Demolitions Sub-Total	27,100,000	14,900,000	11,140,000	-	1,060,000	-	-	-
Terminals									
52	North Terminal Interior Wall Panel Replacements	1,000,000	100,000	900,000	-	-	-	-	-
53	McNamara Terminal Baggage Handling System Controls	42,000,000	25,000,000	17,000,000	-	-	-	-	-
54	Terminal Roof (McNamara & North) & Hotel Roof	3,000,000	100,000	1,400,000	1,500,000	-	-	-	-
55	North Terminal Fire Alarm Systems Improvement	3,725,000	-	-	-	-	225,000	3,500,000	-
56	North Terminal Pre-Conditioned Air Unit Replacement	3,100,000	-	1,023,000	2,077,000	-	-	-	-
57	North Terminal Ground Power Unit Replacement	1,850,000	-	610,500	1,239,500	-	-	-	-
58	North Terminal Baggage System Controls Rehabilitation	3,300,000	250,000	2,000,000	1,050,000	-	-	-	-
	Terminals Sub-Total	57,975,000	25,450,000	22,933,500	5,866,500	-	225,000	3,500,000	-

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Water, Sanitary & Stormwater Systems									
59	Primary Pump & Switchgear Replacements	2,200,000	1,350,000	850,000	-	-	-	-	-
60	Water Main Replacement - Phase 2	5,250,000	3,800,000	1,450,000	-	-	-	-	-
61	Supervisory Control And Data Acquisition (SCADA) System	1,250,000	250,000	-	1,000,000	-	-	-	-
62	Storm & Sanitary Sewer Systems Replacements	4,900,000	2,350,000	2,550,000	-	-	-	-	-
63	Stormwater Force Mains Between Ponds	1,800,000	-	500,000	1,300,000	-	-	-	-
64	Dredge Pond 3 West	3,000,000	-	500,000	2,500,000	-	-	-	-
Water, Sanitary & Stormwater Systems Sub-Total		18,400,000	7,750,000	5,850,000	4,800,000	-	-	-	-
Other Projects									
63	Noise Contour Map	800,000	-	-	800,000	-	-	-	-
Other Projects Sub-Total		800,000	-	-	800,000	-	-	-	-
Total Detroit Metropolitan Airport FY 2020 - 2024 CIP		\$ 922,050,000	\$ 262,566,000	\$ 243,978,500	\$ 160,585,500	\$ 91,910,000	\$ 72,680,000	\$ 46,600,000	\$ 43,730,000