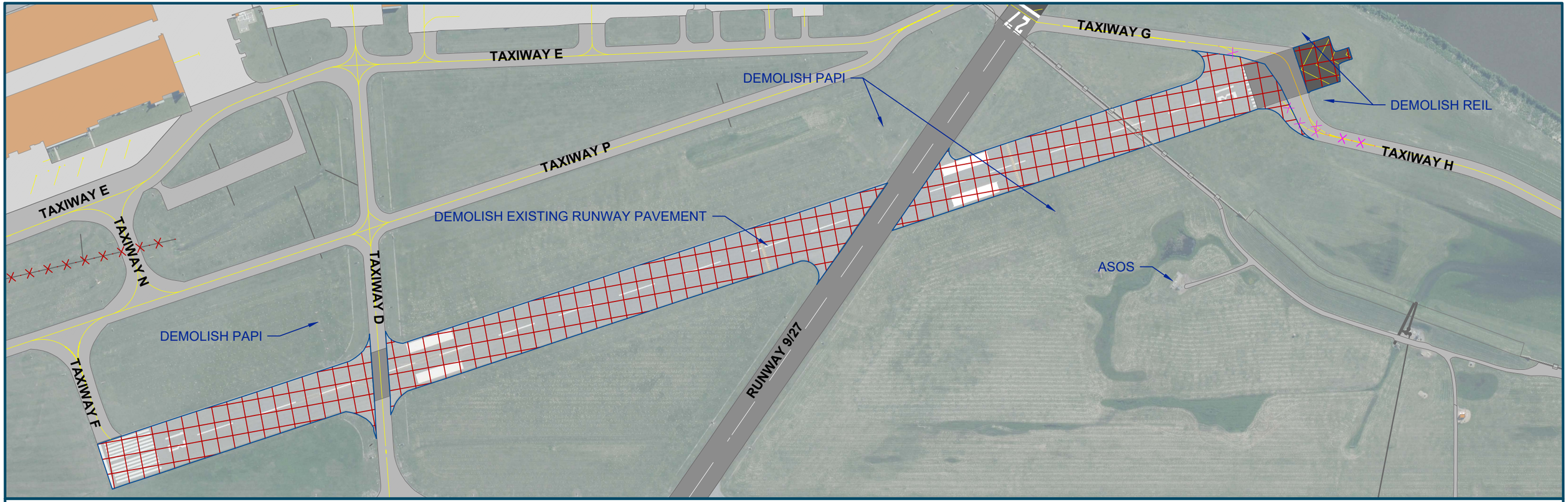


NOTES:

- PAVEMENT SECTION ASSUMED FROM THE PROPOSED RUNWAY SECTION OF THE 2024 RUNWAY 14/32 RECONSTRUCTION PLANS.
- NAVAIDS WILL BE DECOMMISSIONED AND REMOVED AS PART OF THIS PROJECT.

LEGEND	
EXISTING RUNWAY PAVEMENT	
EXISTING TAXILANE/TAXIWAY PAVEMENT	
EXISTING APRON PAVEMENT	
EXISTING BUILDINGS	
PROPOSED DEMOLITION	
PROPOSED MARKING REMOVAL	
PROPOSED UTILITY DEMO	
PROPOSED MARKINGS	
EXISTING MARKINGS	

CIP 1

SECTION	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	COST
CIVIL	P-152 EMBANKMENT	13,477.00	CY	$35.00	$471,695
CIVIL	DEMOLISH EXISTING ASPHALT 6"	64,667.00	SY	$7.50	$485,003
CIVIL	P-152 EXCAVATION OF EXISTING BASE MATERIAL	45,936.00	CY	$20.00	$918,720
CIVIL	T-905 TOPSOIL	8,150.44	CY	$20.00	$163,009
ELECTRICAL	DEMOLISH AIRFIELD ELECTRICAL CONDUIT	7,000.00	LF	$40.00	$280,000
ELECTRICAL	DEMOLISH AIRFIELD LIGHT	35.00	EA	$200.00	$7,000
NAVAIDS	DEMOLISH PAPI	1.00	EA	$10,000.00	$10,000
NAVAIDS	DEMOLISH REIL	2.00	LS	$12,500.00	$25,000
UTILITIES	DEMOLISH FAA DUCTBANK	141.00	LF	$200.00	$28,200
COST SUMMARY					
CONSTRUCTION COST					**$2,388,626**
SOFT COSTS				51.0%	$1,218,199
SUBTOTAL					**$3,606,826**
CONTINGENCY				25.0%	$901,706
TOTAL					**$4,508,532**

STP

MAC

SAINT PAUL DOWNTOWN AIRPORT
2045 LONG-TERM PLAN (LTP) UPDATE

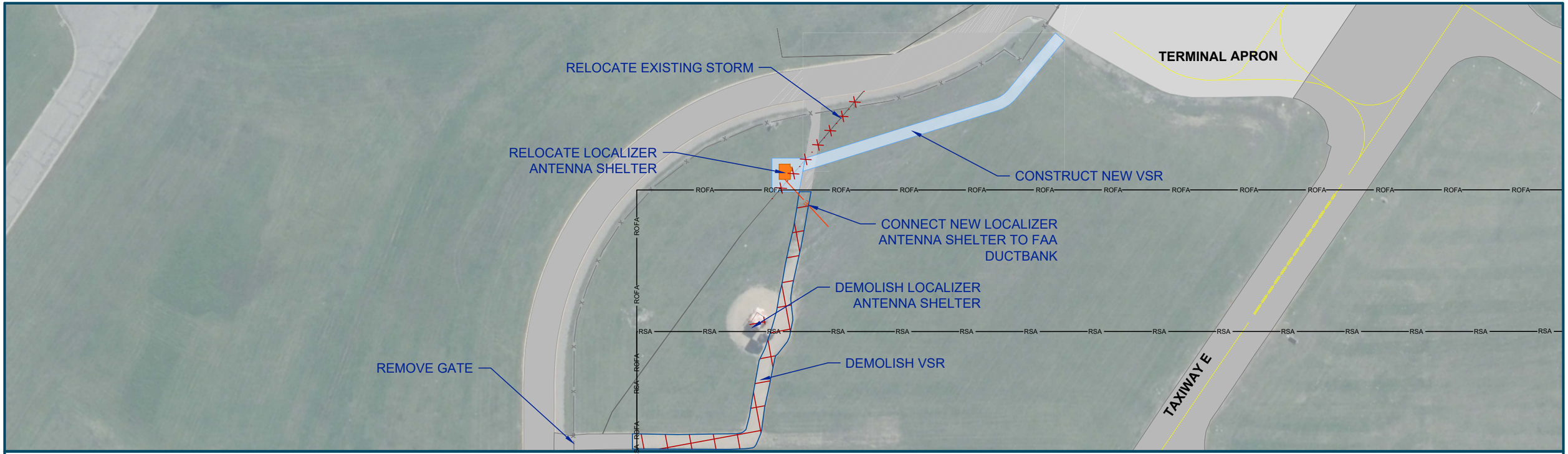
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SCALE (in ft.)

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APPENDIX B - FIGURE 1

CIP #1 - DEMOLISH RUNWAY 13/31



NOTES:

- ASSUMED FAA DUCT LINE CONNECTION FROM THE MAIN TRUNK LINE RUNNING NEAR SITE.
- NORTH GATE WILL BE REMOVED AND REPLACED WITH PERMANENT AOA FENCE.

LEGEND	
EXISTING TAXILANE/TAXIWAY PAVEMENT	
EXISTING APRON PAVEMENT	
LOCALIZER ANTENNA SHELTER	
PROPOSED DEMOLITION	
PROPOSED PAVEMENT	
PROPOSED UTILITY DEMO	
RUNWAY SAFETY AREA (RSA)	RSA
RUNWAY OBJECT FREE AREA (ROFA)	ROFA
EXISTING MARKINGS	

CIP 2

SECTION	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	COST
CIVIL	P-152 EMBANKMENT (DEPTH VARIES)	150.44	CY	$35.00	$5,265
CIVIL	P-154 BOTTOM LAYER - VSR (50")	895.47	CY	$50.00	$44,773
CIVIL	P-401 ASPHALT TOP LAYER PAVEMENT - VSR (4")	125.44	TON	$200.00	$25,088
CIVIL	TACK COATS	78.00	GAL	$5.00	$390
CIVIL	DEMOLISH EXISTING ASPHALT (6")	655.00	SY	$7.50	$4,913
CIVIL	TOPSOIL STRIPPING (4")	73.00	CY	$20.00	$1,460
CIVIL	GATE REMOVAL	1.00	EA	$15,000.00	$15,000
CIVIL	INSTALL AOA FENCE	24.00	LF	$110.00	$2,640
CIVIL	P-152 EXCAVATION OF EXISTING BASE MATERIAL (DEPTH VARIES)	1,019.00	CY	$20.00	$20,380
NAVAIDS	DEMOLISH LOCALIZER ANTENNA SHELTER	1.00	EA	$30,000.00	$30,000
NAVAIDS	PROPOSED LOCALIZER ANTENNA SHELTER	1.00	EA	$200,000.00	$200,000
UTILITIES	DEMOLISH FAA DUCTBANK	215.00	LF	$200.00	$43,000
UTILITIES	INSTALL FAA STRUCTURE	2.00	EA	$10,000.00	$20,000
UTILITIES	INSTALL FAA DUCTBANK	225.00	LF	$220.00	$49,500
COST SUMMARY					
CONSTRUCTION COST					**$457,144**
SOFT COSTS				51.0%	$233,143
SUBTOTAL					**$690,287**
CONTINGENCY				25.0%	$172,572
TOTAL					**$862,859**

STP

MAC

SAINT PAUL DOWNTOWN AIRPORT
2045 LONG-TERM PLAN (LTP) UPDATE

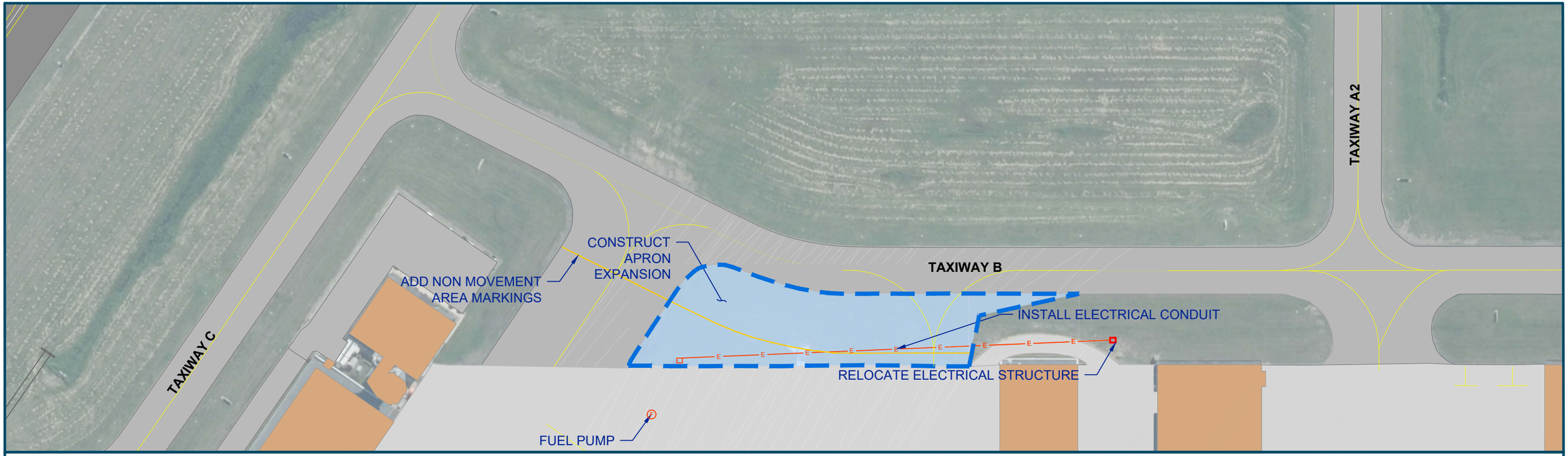
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SCALE (in ft.)

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APPENDIX B - FIGURE 2

CIP #2 - DEMOLISH AND REPLACE VSR & LOCALIZER ANTENNA SHELTER



NOTES:

- ELECTRICAL STRUCTURE WILL BE RELOCATED TO GRASSED AREA OUTSIDE OF AIRCRAFT OPERATIONS

LEGEND	
EXISTING RUNWAY PAVEMENT	
EXISTING TAXILANE/TAXIWAY PAVEMENT	
EXISTING APRON PAVEMENT	
EXISTING BUILDINGS	
PROPOSED APRON PAVEMENT	

CIP 3

SECTION	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	COST
CIVIL	P-154 BOTTOM LAYER - TAXIWAY (42")	4,104.15	CY	$50.00	$205,207
CIVIL	P-209 CRUSHED AGGREGATE BASE - TAXIWAY (12")	1,140.52	CY	$95.00	$108,350
CIVIL	P-401 HMA SURFACE/BASE COURSE - TAXIWAY (6")	1,119.05	TON	$200.00	$223,810
CIVIL	TACK COATS	465.52	GAL	$5.00	$2,328
CIVIL	TOPSOIL STRIPPING (4")	350.89	CY	$20.00	$7,018
CIVIL	P-152 EXCAVATION OF EXISTING SOIL (DEPTH VARIES)	5,136.44	CY	$20.00	$102,729
ELECTRICAL	INSTALL ELECTRICAL CONDUIT	460.00	LF	$150.00	$69,000
ELECTRICAL	RELOCATE ELECTRICAL STRUCTURE	1.00	EA	$10,000.00	$10,000
COST SUMMARY					
CONSTRUCTION COST					**$728,441**
SOFT COSTS				51.0%	$371,505
SUBTOTAL					**$1,099,946**
CONTINGENCY				25.0%	$274,986
TOTAL					**$1,374,932**

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SAINT PAUL DOWNTOWN AIRPORT
2045 LONG-TERM PLAN (LTP) UPDATE

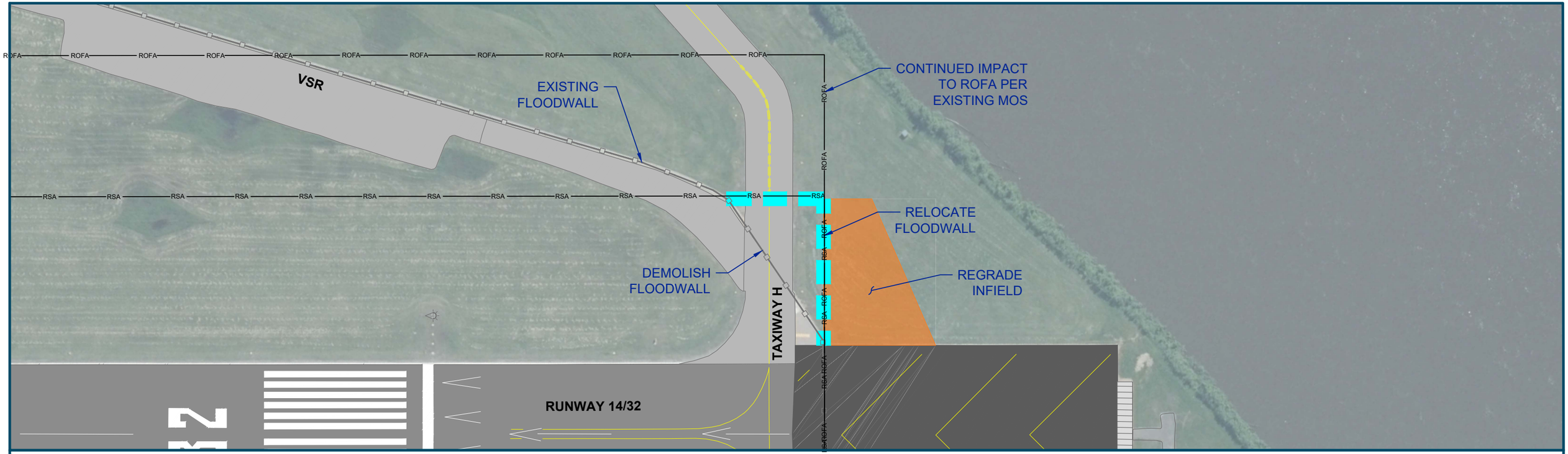
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SCALE (in ft.)

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APPENDIX B - FIGURE 3

CIP #3 - CONSTRUCT TAXIWAY B APRON



LEGEND	
EXISTING RUNWAY PAVEMENT	
EXISTING TAXILANE/TAXIWAY PAVEMENT	
REGRADED INFIELD	
EXISTING TEMPORARY FLOODWALL	
PROPOSED TEMPORARY FLOODWALL	
RUNWAY SAFETY AREA (FLOODWALL UP)	RSA
RUNWAY OBJECT FREE AREA (FLOODWALL UP)	ROFA
EXISTING MARKINGS	

CIP 4

SECTION	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	COST
CIVIL	DEMOLISH FLOODWALL	187.00	LF	$90.00	$16,830
CIVIL	INSTALL SHEET PILE WALL BELOW FLOODWALL (40")	10,360.00	SF	$65.00	$673,400
CIVIL	INSTALL FLOOD WALL AND CONCRETE FOUNDATION	259.00	LF	$1,100.00	$284,900
COST SUMMARY					
CONSTRUCTION COST					**$975,130**
SOFT COSTS				51.0%	$497,316
SUBTOTAL					**$1,472,446**
CONTINGENCY				25.0%	$368,112
TOTAL					**$1,840,558**

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SAINT PAUL DOWNTOWN AIRPORT
2045 LONG-TERM PLAN (LTP) UPDATE

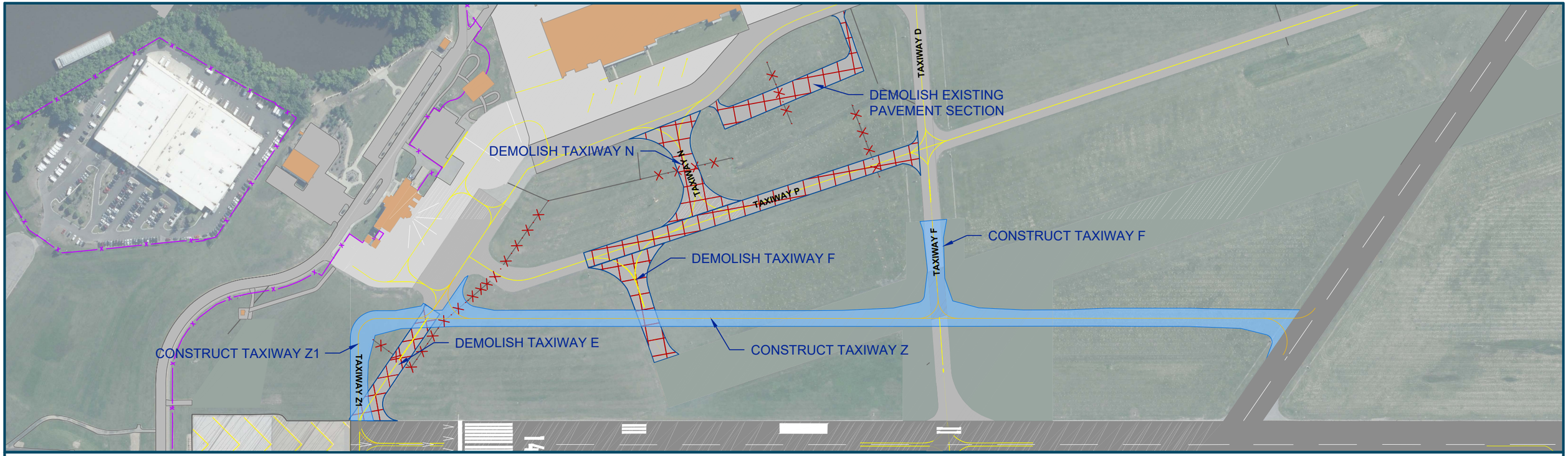
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SCALE (in ft.)

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APPENDIX B - FIGURE 4

CIP #4 - INSTALL FLOODWALL ON NEW ALIGNMENT



NOTES:

- PAVEMENT SECTION ASSUMED FROM THE PROPOSED TAXIWAY SECTION OF THE 2024 RUNWAY 14/32 RECONSTRUCTION PLANS.
- EARTHWORK QUANTITIES ASSUMED 1 FT OF EXCAVATION AND EMBANKMENT UNDER EXISTING PAVEMENT TO BE REMOVED, AND 4 FT OF EXCAVATION UNDER NEW PAVEMENT.

LEGEND	
EXISTING RUNWAY PAVEMENT	
EXISTING TAXILANE/TAXIWAY PAVEMENT	
EXISTING APRON PAVEMENT	
EXISTING BUILDINGS	
PROPOSED DEMOLITION	
PROPOSED MARKING REMOVAL	
PROPOSED UTILITY DEMO	
EXISTING PROPERTY FENCE	
EXISTING MARKINGS	
PROPOSED MARKINGS	

CIP 5

SECTION	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	COST
CIVIL	P-401 HMA SURFACE/BASE COURSE - TAXIWAY	7,820.10	TON	$200.00	$1,564,021
CIVIL	P-209 CRUSHED AGGREGATE BASE - TAXIWAY	8,069.33	CY	$95.00	$766,587
CIVIL	P-154 BOTTOM LAYER - TAXIWAY	29,250.67	CY	$50.00	$1,462,533
CIVIL	PROPOSED PAVEMENT MARKING YELLOW	4,061.00	SF	$5.00	$20,305
CIVIL	P-152 EMBANKMENT	4,180.22	CY	$35.00	$146,308
CIVIL	TACK COATS	3,268.06	GAL	$5.00	$16,340
CIVIL	DEMOLISH EXISTING ASPHALT 6"	19,320.33	SY	$7.50	$144,902
CIVIL	P-152 EXCAVATION OF EXISTING BASE MATERIAL	1,101.00	CY	$20.00	$22,020
CIVIL	P-152 EXCAVATION OF EXISTING SOIL	73,045.00	CY	$20.00	$1,460,900
CIVIL	T-905 TOPSOIL	2,090.11	CY	$20.00	$41,802
ELECTRICAL	DEMOLISH AIRFIELD LIGHTING CONDUIT	2,500.00	LF	$40.00	$100,000
ELECTRICAL	DEMOLISH AIRFIELD LIGHT	16.00	EA	$200.00	$3,200
UTILITIES	DEMOLISH STORM SEWER	1,150.00	LF	$50.00	$57,500
UTILITIES	CONSTRUCT STORM SEWER	1,260.00	LF	$150.00	$189,000
COST SUMMARY					
CONSTRUCTION COST					**$5,995,418**
SOFT COSTS				51.0%	$3,057,663
SUBTOTAL					**$9,053,082**
CONTINGENCY				25.0%	$2,263,270
TOTAL					**$11,316,352**

STP

MAC

SAINT PAUL DOWNTOWN AIRPORT
2045 LONG-TERM PLAN (LTP) UPDATE

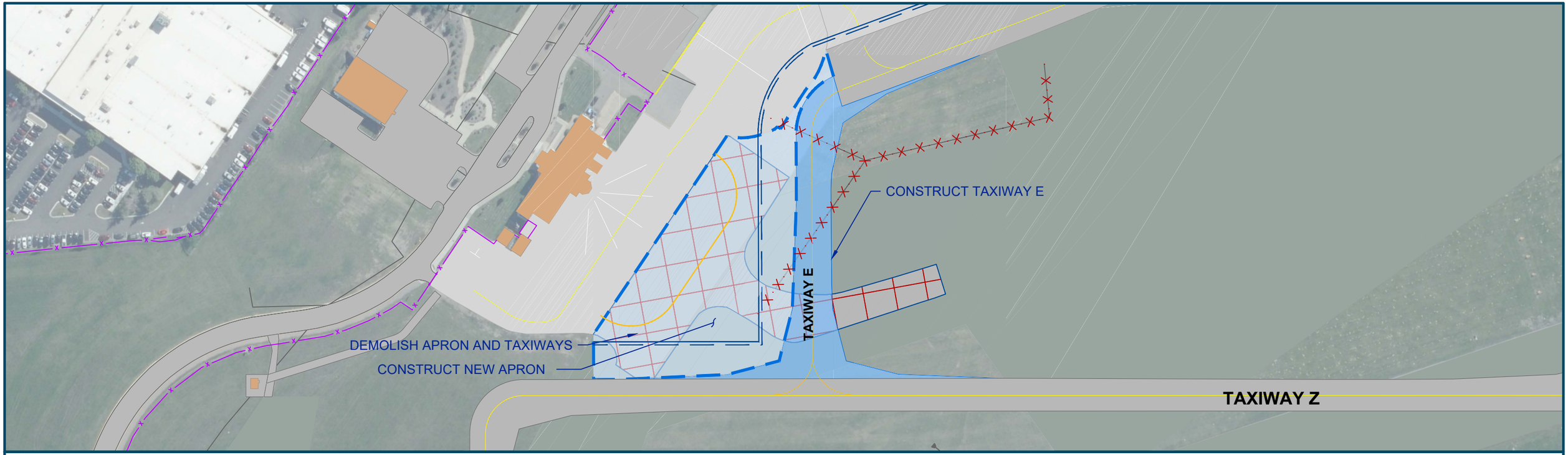
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SCALE (in ft.)

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APPENDIX B - FIGURE 5

CIP #5 - CONSTRUCT NORTHERN TAXIWAY Z AND Z1 CONNECTOR



NOTES:

- PAVEMENT SECTION ASSUMED FROM THE PROPOSED TAXIWAY SECTION OF THE 2024 RUNWAY 14/32 RECONSTRUCTION PLANS.
- EARTHWORK QUANTITIES ASSUMED 1 FT OF EXCAVATION AND EMBANKMENT UNDER EXISTING PAVEMENT TO BE REMOVED, AND 4 FT OF EXCAVATION UNDER NEW PAVEMENT.

LEGEND
EXISTING RUNWAY PAVEMENT
EXISTING TAXILANE/TAXIWAY PAVEMENT
EXISTING APRON PAVEMENT
EXISTING BUILDINGS
PROPOSED DEMOLITION
PROPOSED MARKING REMOVAL
PROPOSED UTILITY DEMO
EXISTING PROPERTY FENCE
PROPOSED NEW APRON PAVEMENT
EXISTING MARKINGS
PROPOSED MARKINGS

CIP 6

SECTION	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	COST
CIVIL	P-401 HMA SURFACE/BASE COURSE - TAXIWAY	4,707.20	TON	$200.00	$941,439
CIVIL	P-209 CRUSHED AGGREGATE BASE - TAXIWAY	4,774.05	CY	$95.00	$453,535
CIVIL	P-154 BOTTOM LAYER - TAXIWAY	17,100.64	CY	$50.00	$855,032
CIVIL	PROPOSED PAVEMENT MARKING YELLOW	1,042.00	SF	$5.00	$5,210
CIVIL	P-152 EMBANKMENT	1,590.89	CY	$35.00	$55,681
CIVIL	TACK COATS	1,958.42	GAL	$5.00	$9,792
CIVIL	DEMOLISH EXISTING ASPHALT 6"	7,679.00	SY	$7.50	$57,593
CIVIL	TOPSOIL STRIPPING	313.00	CY	$20.00	$6,260
CIVIL	P-152 EXCAVATION OF EXISTING BASE MATERIAL	780.00	CY	$20.00	$15,600
CIVIL	P-152 EXCAVATION OF EXISTING SOIL	19,702.00	CY	$20.00	$394,040
CIVIL	T-905 TOPSOIL	1,889.00	CY	$20.00	$37,780
UTILITIES	DEMOLISH STORM SEWER	830.00	LF	$50.00	$41,500
UTILITIES	CONSTRUCT STORM SEWER	915.00	LF	$150.00	$137,250
COST SUMMARY					
CONSTRUCTION COST					**$3,010,712**
SOFT COSTS				51.0%	$1,535,463
SUBTOTAL					**$4,546,175**
CONTINGENCY				25.0%	$1,136,544
TOTAL					**$5,682,718**

STP

MAC

SAINT PAUL DOWNTOWN AIRPORT
2045 LONG-TERM PLAN (LTP) UPDATE

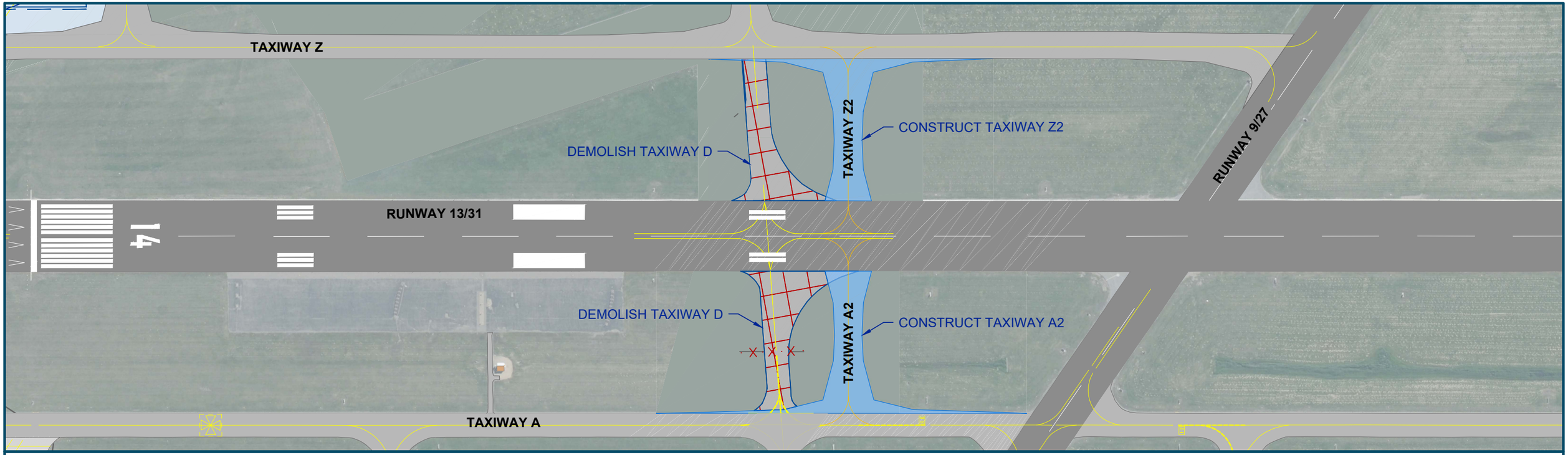
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SCALE (in ft.)

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APPENDIX B - FIGURE 6

CIP #6 - CONSTRUCT TAXIWAY E AND TAXIWAY Z TERMINAL APRON



NOTES:

- PAVEMENT SECTION ASSUMED FROM THE PROPOSED TAXIWAY SECTION OF THE 2024 RUNWAY 14/32 RECONSTRUCTION PLANS.
- EARTHWORK QUANTITIES ASSUMED 1 FT OF EXCAVATION AND EMBANKMENT UNDER EXISTING PAVEMENT TO BE REMOVED, AND 4 FT OF EXCAVATION UNDER NEW PAVEMENT.

LEGEND	
EXISTING RUNWAY PAVEMENT	
EXISTING TAXILANE/TAXIWAY PAVEMENT	
EXISTING APRON PAVEMENT	
EXISTING BUILDINGS	
PROPOSED DEMOLITION	
PROPOSED UTILITY DEMO	
PROPOSED TAXIWAY	
EXISTING MARKINGS	
PROPOSED MARKINGS	

CIP 7

SECTION	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	COST
CIVIL	P-401 HMA SURFACE/BASE COURSE - TAXIWAY	2,068.92	TON	$200.00	$413,785
CIVIL	P-209 CRUSHED AGGREGATE BASE - TAXIWAY	2,152.15	CY	$95.00	$204,455
CIVIL	P-154 BOTTOM LAYER - TAXIWAY	7,907.23	CY	$50.00	$395,361
CIVIL	PROPOSED PAVEMENT MARKING YELLOW	1,305.00	SF	$5.00	$6,525
CIVIL	P-152 EMBANKMENT	1,505.00	CY	$35.00	$52,675
CIVIL	TACK COATS	859.04	GAL	$5.00	$4,295
CIVIL	DEMOLISH EXISTING ASPHALT 6"	6,891.00	SY	$7.50	$51,683
CIVIL	TOPSOIL STRIPPING	580.00	CY	$20.00	$11,600
CIVIL	P-152 EXCAVATION OF EXISTING BASE MATERIAL	174.00	CY	$20.00	$3,480
CIVIL	P-152 EXCAVATION OF EXISTING SOIL	8,108.00	CY	$20.00	$162,160
CIVIL	T-905 TOPSOIL	753.00	CY	$20.00	$15,060
UTILITIES	DEMOLISH STORM SEWER	109.00	LF	$50.00	$5,450

COST SUMMARY

CONSTRUCTION COST		**$1,326,528**
SOFT COSTS	51.0%	$676,529
SUBTOTAL		**$2,003,058**
CONTINGENCY	25.0%	$500,764
TOTAL		**$2,503,822**

STP

MAC

SAINT PAUL DOWNTOWN AIRPORT
2045 LONG-TERM PLAN (LTP) UPDATE

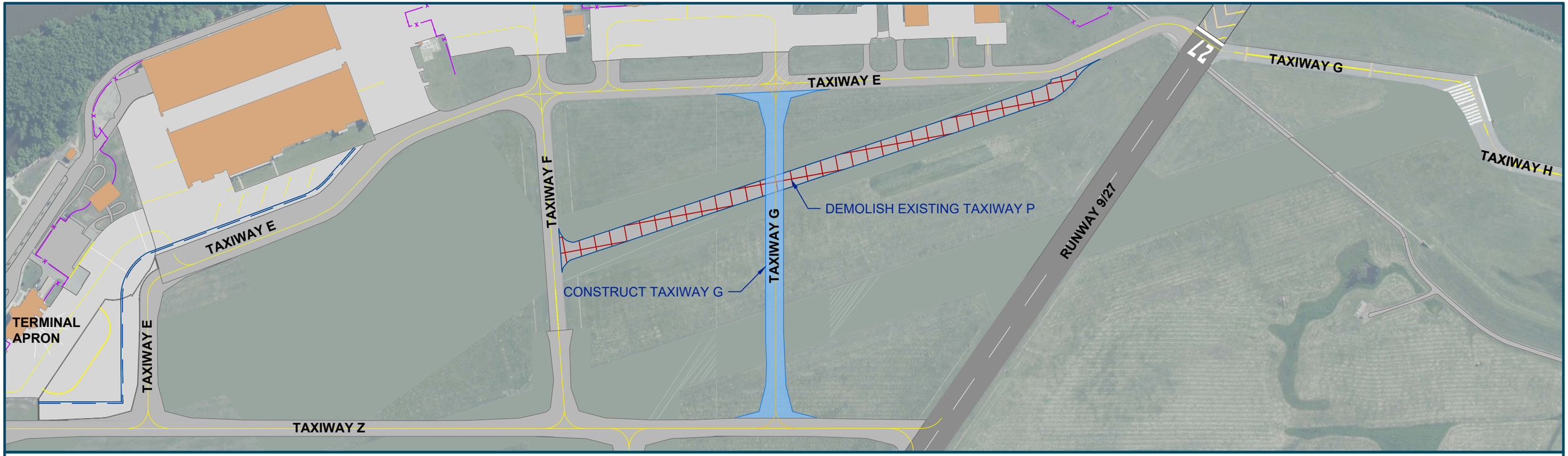
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SCALE (in ft.)

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APPENDIX B - FIGURE 7

CIP #7 - CONSTRUCT TAXIWAY Z2 AND A2 CONNECTORS



NOTES:

- PAVEMENT SECTION ASSUMED FROM THE PROPOSED TAXIWAY SECTION OF THE 2024 RUNWAY 14/32 RECONSTRUCTION PLANS.
- EARTHWORK QUANTITIES ASSUMED 1 FT OF EXCAVATION AND EMBANKMENT UNDER EXISTING PAVEMENT TO BE REMOVED, AND 4 FT OF EXCAVATION UNDER NEW PAVEMENT.

LEGEND	
EXISTING RUNWAY PAVEMENT	
EXISTING TAXILANE/TAXIWAY PAVEMENT	
EXISTING APRON PAVEMENT	
EXISTING BUILDINGS	
PROPOSED DEMOLITION	
EXISTING PROPERTY FENCE	
PROPOSED TAXIWAY	
EXISTING MARKINGS	
PROPOSED MARKINGS	

CIP 8

SECTION	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	COST
CIVIL	P-154 BOTTOM LAYER - TAXIWAY	8,934.02	CY	$50.00	$446,701
CIVIL	P-209 CRUSHED AGGREGATE BASE - TAXIWAY	2,471.01	CY	$95.00	$234,746
CIVIL	P-401 HMA SURFACE/BASE COURSE - TAXIWAY	2,412.83	TON	$200.00	$482,567
CIVIL	PROPOSED PAVEMENT MARKING YELLOW	1,353.00	SF	$5.00	$6,765
CIVIL	P-152 EMBANKMENT	2,089.00	CY	$35.00	$73,115
CIVIL	TACK COATS	1,003.66	GAL	$5.00	$5,018
CIVIL	DEMOLISH EXISTING ASPHALT 6"	9,730.00	SY	$7.50	$72,975
CIVIL	TOPSOIL STRIPPING	710.00	CY	$20.00	$14,200
CIVIL	P-152 EXCAVATION OF EXISTING BASE MATERIAL	498.00	CY	$20.00	$9,960
CIVIL	P-152 EXCAVATION OF EXISTING SOIL	9,937.00	CY	$20.00	$198,740
CIVIL	T-905 TOPSOIL	1,045.00	CY	$20.00	$20,900

COST SUMMARY

CONSTRUCTION COST		**$1,565,687**
SOFT COSTS	51.0%	$798,500
SUBTOTAL		**$2,364,187**
CONTINGENCY	25.0%	$591,047
TOTAL		**$2,955,234**

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MAC

SAINT PAUL DOWNTOWN AIRPORT
2045 LONG-TERM PLAN (LTP) UPDATE

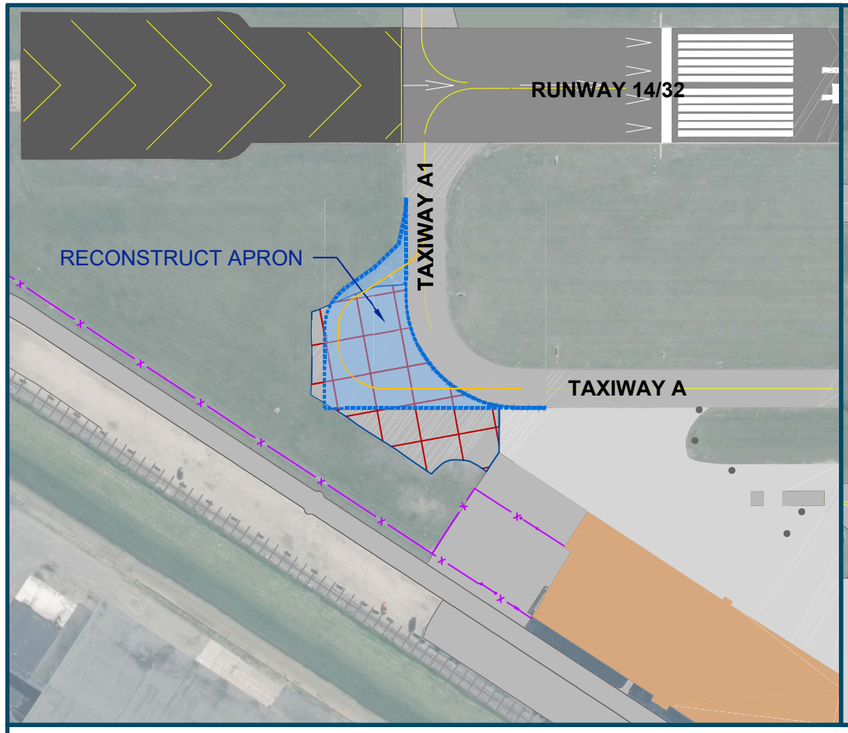
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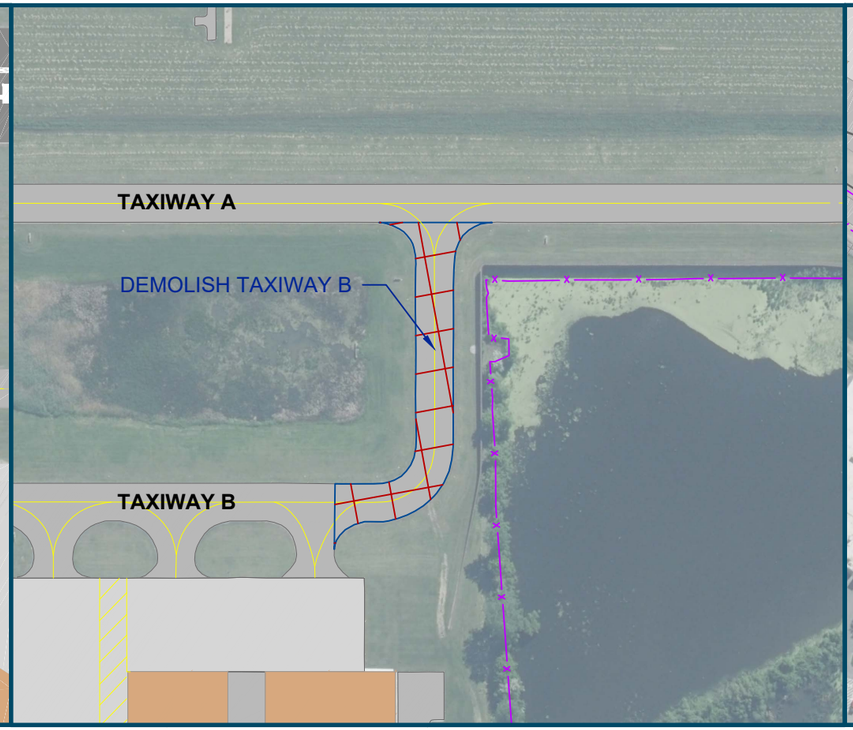
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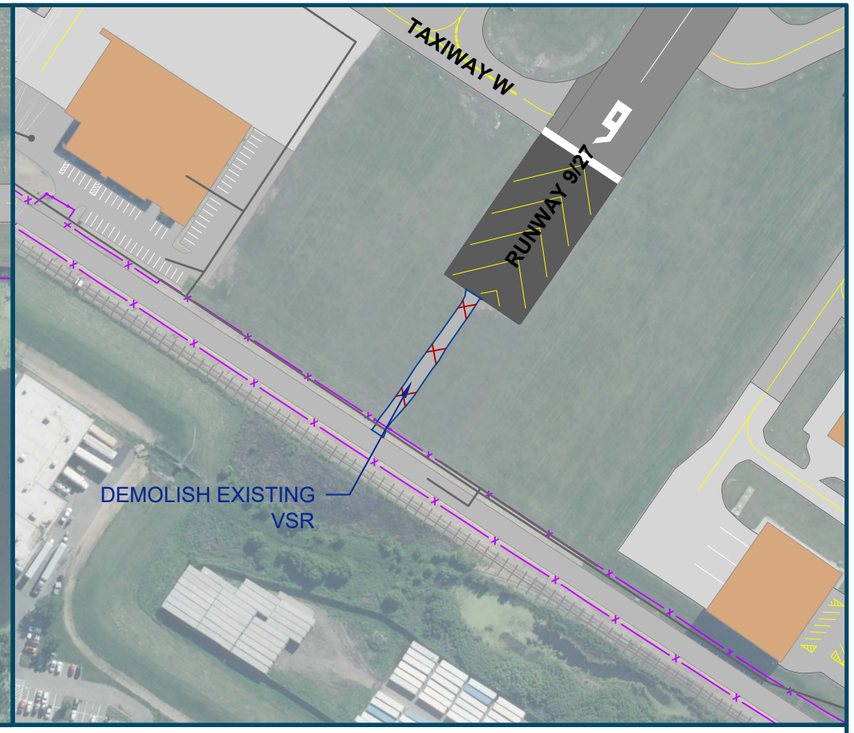
Kimley»Horn

APPENDIX B - FIGURE 8

CIP #8 - CONSTRUCT TAXIWAY G







NOTES:

- EARTHWORK QUANTITIES ASSUMED 1 FT OF EXCAVATION AND EMBANKMENT UNDER EXISTING PAVEMENT TO BE REMOVED, AND 4 FT OF EXCAVATION UNDER NEW PAVEMENT.

LEGEND	
EXISTING RUNWAY PAVEMENT	
EXISTING TAXILANE/TAXIWAY PAVEMENT	
EXISTING APRON PAVEMENT	
EXISTING BUILDINGS	
PROPOSED DEMOLITION	
EXISTING PROPERTY FENCE	
PROPOSED APRON RECONSTRUCTION	
EXISTING MARKINGS	
PROPOSED MARKINGS	

CIP 9

SECTION	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	COST
CIVIL	DEMOLISH EXISTING ASPHALT 6"	7,142.00	SY	$7.50	$53,565
CIVIL	P-152 EMBANKMENT	1,588.00	CY	$35.00	$55,580
CIVIL	P-152 EXCAVATION OF EXISTING BASE	198.40	CY	$20.00	$3,968
	P-154 BOTTOM LAYER - TAXIWAY	2,226.08	CY	$50.00	$111,304
	P-209 CRUSHED AGGREGATE BASE - TAXIWAY	890.43	CY	$95.00	$84,591
	P-401 HMA SURFACE/BASE COURSE - TAXIWAY	962.00	TON	$200.00	$192,400
CIVIL	T-905 TOPSOIL	1,601.10	CY	$20.00	$32,022
COST SUMMARY					
CONSTRUCTION COST					**$533,430**
SOFT COSTS				51.0%	$272,049
SUBTOTAL					**$805,480**
CONTINGENCY				25.0%	$201,370
TOTAL					**$1,006,850**

STP

MINNEAPOLIS SAINT PAUL METROPOLITAN AIRPORTS COMMISSION MAC

SAINT PAUL DOWNTOWN AIRPORT
2045 LONG-TERM PLAN (LTP) UPDATE

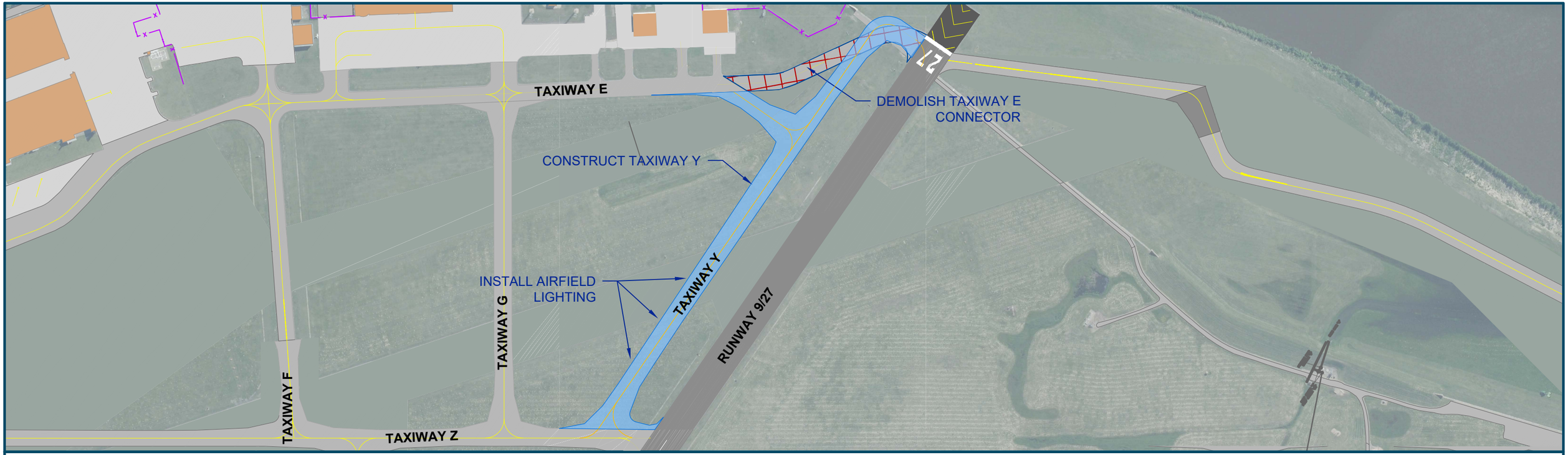
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APPENDIX B - FIGURE 9

CIP #9 - DEMOLISH AND RECONSTRUCT ADDITIONAL PAVEMENT SECTIONS



NOTES:

- PAVEMENT SECTION ASSUMED FROM THE PROPOSED TAXIWAY SECTION OF THE 2024 RUNWAY 14/32 RECONSTRUCTION PLANS.
- EARTHWORK QUANTITIES ASSUMED 1 FT OF EXCAVATION AND EMBANKMENT UNDER EXISTING PAVEMENT TO BE REMOVED, AND 4 FT OF EXCAVATION UNDER NEW PAVEMENT.

LEGEND	
EXISTING RUNWAY PAVEMENT	
EXISTING TAXILANE/TAXIWAY PAVEMENT	
EXISTING APRON PAVEMENT	
EXISTING BUILDINGS	
PROPOSED DEMOLITION	
PROPOSED TAXIWAY	
EXISTING PROPERTY FENCE	x
EXISTING MARKINGS	
PROPOSED MARKINGS	

CIP 10

SECTION	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	COST
CIVIL	P-154 BOTTOM LAYER - TAXIWAY	18,354.01	CY	$50.00	$917,701
CIVIL	P-209 CRUSHED AGGREGATE BASE - TAXIWAY	5,073.67	CY	$95.00	$481,999
CIVIL	P-401 HMA SURFACE/BASE COURSE - TAXIWAY	4,955.47	TON	$200.00	$991,094
CIVIL	PROPOSED PAVEMENT MARKING YELLOW	4,876.00	SF	$5.00	$24,380
CIVIL	P-152 EMBANKMENT	637.00	CY	$35.00	$22,295
CIVIL	TACK COATS	2,062.90	GAL	$5.00	$10,315
CIVIL	DEMOLISH EXISTING ASPHALT 6"	3,652.00	SY	$7.50	$27,390
CIVIL	TOPSOIL STRIPPING	1,127.00	CY	$20.00	$22,540
CIVIL	P-152 EXCAVATION OF EXISTING BASE MATERIAL	1,179.00	CY	$20.00	$23,580
CIVIL	P-152 EXCAVATION OF EXISTING SOIL	15,768.00	CY	$20.00	$315,360
CIVIL	T-905 TOPSOIL	319.00	CY	$20.00	$6,380
ELECTRICAL	PROPOSED AIRFIELD LIGHTING CONDUIT	3,500.00	LF	$150.00	$525,000
ELECTRICAL	PROPOSED AIRFIELD LIGHT	40.00	EA	$1,200.00	$48,000
COST SUMMARY					
CONSTRUCTION COST					**$3,416,033**
SOFT COSTS				51.0%	$1,742,177
SUBTOTAL					**$5,158,209**
CONTINGENCY				25.0%	$1,289,552
TOTAL					**$6,447,762**

STP

MAC

SAINT PAUL DOWNTOWN AIRPORT
2045 LONG-TERM PLAN (LTP) UPDATE

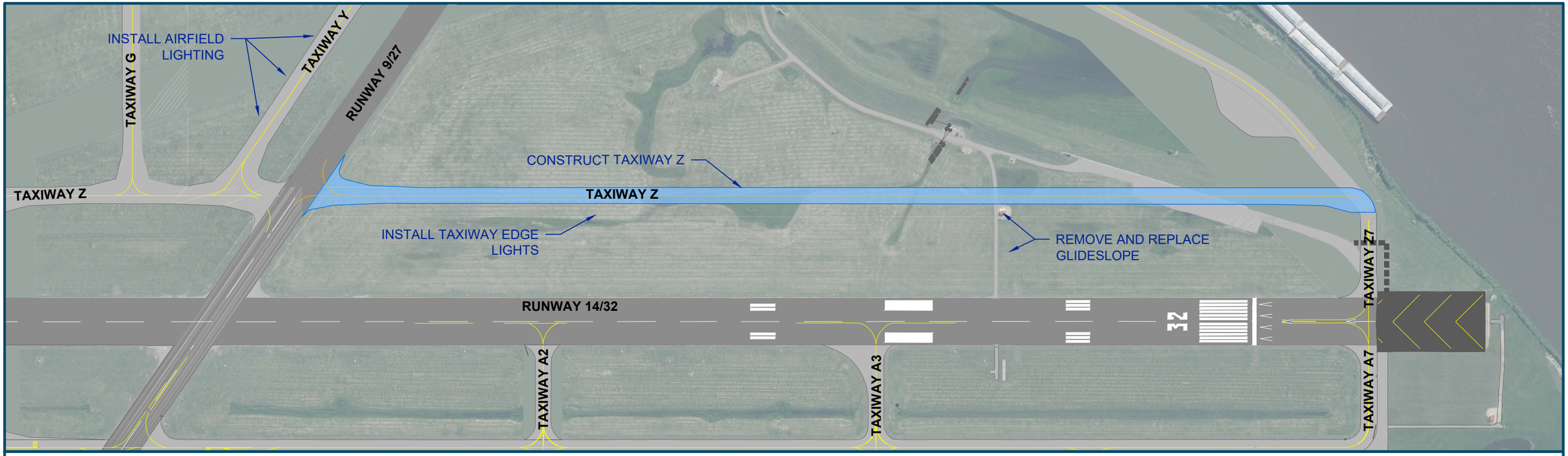
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SCALE (in ft.)

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APPENDIX B - FIGURE 10

CIP #10 - CONSTRUCT TAXIWAY Y



NOTES:

- PAVEMENT SECTION ASSUMED FROM THE PROPOSED TAXIWAY SECTION OF THE 2024 RUNWAY 14/32 RECONSTRUCTION PLANS.
- EARTHWORK QUANTITIES ASSUMED 1 FT OF EXCAVATION AND EMBANKMENT UNDER EXISTING PAVEMENT TO BE REMOVED, AND 4 FT OF EXCAVATION UNDER NEW PAVEMENT.

LEGEND	
EXISTING RUNWAY PAVEMENT	
EXISTING TAXILANE/TAXIWAY PAVEMENT	
EXISTING APRON PAVEMENT	
EXISTING BUILDINGS	
PROPOSED DEMOLITION	
PROPOSED TAXIWAY	
EXISTING MARKINGS	
PROPOSED MARKINGS	

CIP 11

SECTION	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	COST
CIVIL	P-154 BOTTOM LAYER - TAXIWAY	25,361.49	CY	$50.00	$1,268,074
CIVIL	P-209 CRUSHED AGGREGATE BASE - TAXIWAY	6,983.12	CY	$95.00	$663,397
CIVIL	P-401 HMA SURFACE/BASE COURSE - TAXIWAY	6,748.82	TON	$200.00	$1,349,763
CIVIL	PROPOSED PAVEMENT MARKING YELLOW	3,522.00	SF	$5.00	$17,610
CIVIL	P-152 EMBANKMENT	5,893.00	CY	$35.00	$206,255
CIVIL	TACK COATS	2,822.74	GAL	$5.00	$14,114
CIVIL	TOPSOIL STRIPPING	2,495.00	CY	$20.00	$49,900
CIVIL	P-152 EXCAVATION OF EXISTING BASE MATERIAL	780.00	CY	$20.00	$15,600
CIVIL	P-152 EXCAVATION OF EXISTING SOIL	34,923.00	CY	$20.00	$698,460
CIVIL	T-905 TOPSOIL	2,947.00	CY	$20.00	$58,940
NAVAIDS	CONSTRUCT GLIDESLOPE	1.00	EA	$200,000.00	$200,000
NAVAIDS	DEMOLISH GLIDESLOPE	1.00	EA	$30,000.00	$30,000
COST SUMMARY					
CONSTRUCTION COST					**$4,572,113**
SOFT COSTS				51.0%	$2,331,777
SUBTOTAL					**$6,903,890**
CONTINGENCY				25.0%	$1,725,973
TOTAL					**$8,629,863**

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SAINT PAUL DOWNTOWN AIRPORT
2045 LONG-TERM PLAN (LTP) UPDATE

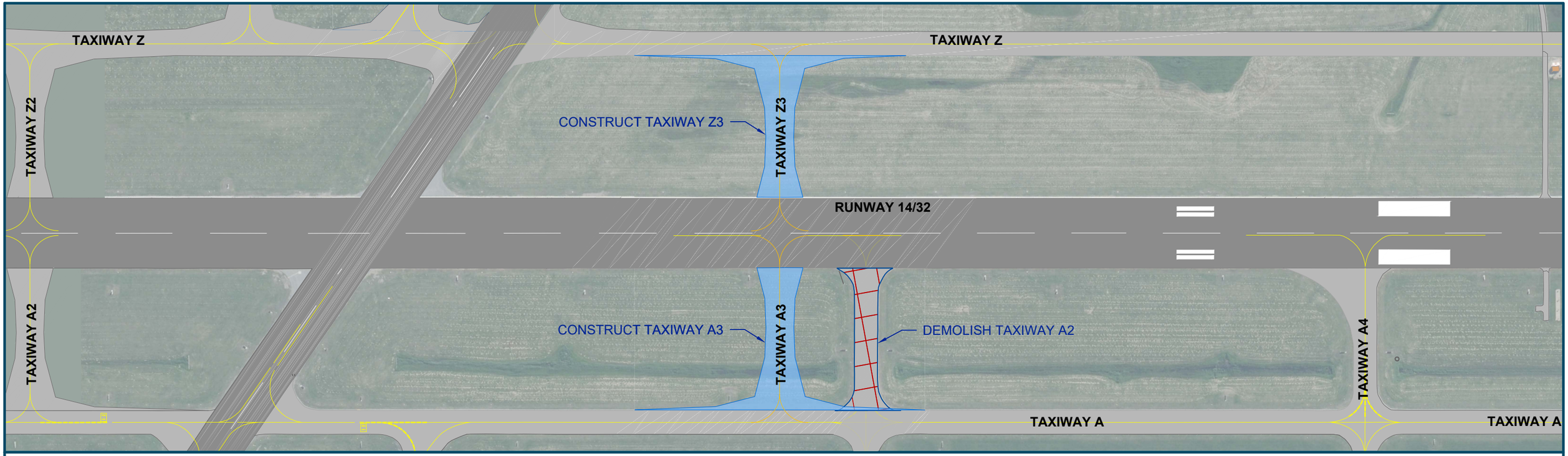
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SCALE (in ft.)

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APPENDIX B - FIGURE 11

CIP #11 - CONSTRUCT SOUTHERN TAXIWAY Z



NOTES:

- PAVEMENT SECTION ASSUMED FROM THE PROPOSED TAXIWAY SECTION OF THE 2024 RUNWAY 14/32 RECONSTRUCTION PLANS.
- EARTHWORK QUANTITIES ASSUMED 1 FT OF EXCAVATION AND EMBANKMENT UNDER EXISTING PAVEMENT TO BE REMOVED, AND 4 FT OF EXCAVATION UNDER NEW PAVEMENT.

LEGEND	
EXISTING RUNWAY PAVEMENT	
EXISTING TAXILANE/TAXIWAY PAVEMENT	
EXISTING APRON PAVEMENT	
EXISTING BUILDINGS	
PROPOSED DEMOLITION	
PROPOSED TAXIWAY	
EXISTING MARKINGS	
PROPOSED MARKINGS	

CIP 12

SECTION	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	COST
CIVIL	P-154 BOTTOM LAYER - TAXIWAY	7,630.47	CY	$50.00	$381,523
CIVIL	P-209 CRUSHED AGGREGATE BASE - TAXIWAY	2,085.78	CY	$95.00	$198,150
CIVIL	P-401 HMA SURFACE/BASE COURSE - TAXIWAY	2,014.26	TON	$200.00	$402,852
CIVIL	PROPOSED PAVEMENT MARKING YELLOW	1,404.00	SF	$5.00	$7,020
CIVIL	P-152 EMBANKMENT	420.00	CY	$35.00	$14,700
CIVIL	TACK COATS	836.60	GAL	$5.00	$4,183
CIVIL	DEMOLISH EXISTING ASPHALT 6"	1,888.00	SY	$7.50	$14,160
CIVIL	TOPSOIL STRIPPING	582.00	CY	$20.00	$11,640
CIVIL	P-152 EXCAVATION OF EXISTING SOIL	8,144.00	CY	$20.00	$162,880
CIVIL	T-905 TOPSOIL	210.00	CY	$20.00	$4,200
COST SUMMARY					
CONSTRUCTION COST					**$1,201,308**
SOFT COSTS				51.0%	$612,667
SUBTOTAL					**$1,813,975**
CONTINGENCY				25.0%	$453,494
TOTAL					**$2,267,469**

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2045 LONG-TERM PLAN (LTP) UPDATE

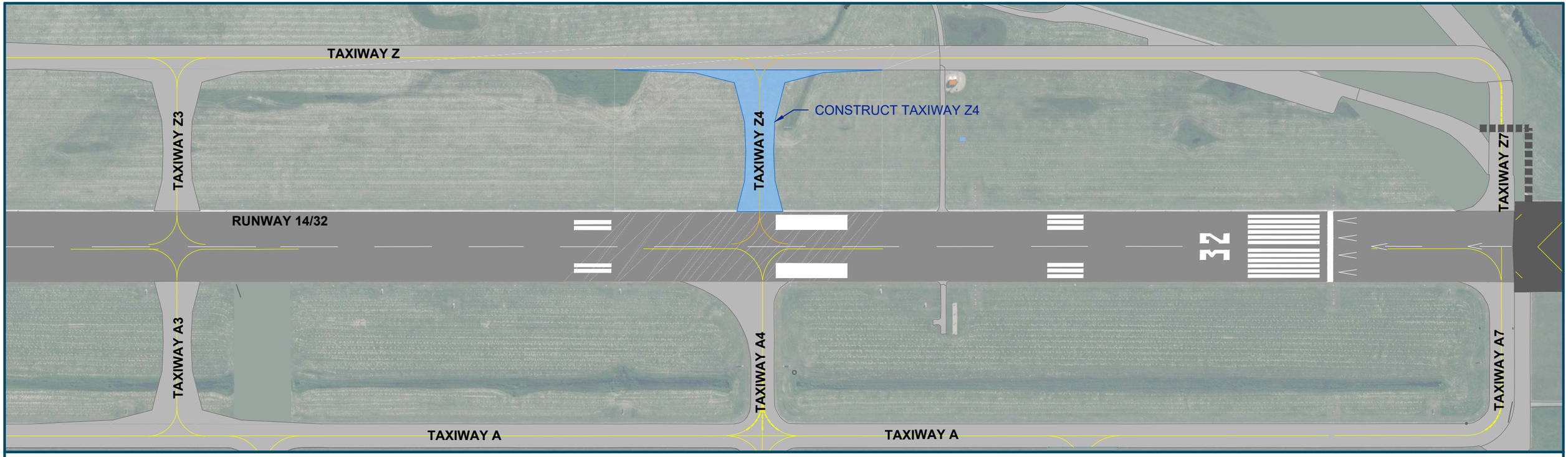
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SCALE (in ft.)

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APPENDIX B - FIGURE 12

CIP #12 - CONSTRUCT TAXIWAY Z3 AND A3 CONNECTORS



NOTES:

- PAVEMENT SECTION ASSUMED FROM THE PROPOSED TAXIWAY SECTION OF THE 2024 RUNWAY 14/32 RECONSTRUCTION PLANS.
- EARTHWORK QUANTITIES ASSUMED 1 FT OF EXCAVATION AND EMBANKMENT UNDER EXISTING PAVEMENT TO BE REMOVED, AND 4 FT OF EXCAVATION UNDER NEW PAVEMENT.

LEGEND	
EXISTING RUNWAY PAVEMENT	
EXISTING TAXILANE/TAXIWAY PAVEMENT	
EXISTING APRON PAVEMENT	
EXISTING BUILDINGS	
PROPOSED TAXIWAY	
EXISTING MARKINGS	
PROPOSED MARKINGS	

CIP 13

SECTION	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	COST
CIVIL	P-154 BOTTOM LAYER - TAXIWAY	3,637.48	CY	$50.00	$181,874
CIVIL	P-209 CRUSHED AGGREGATE BASE - TAXIWAY	1,010.86	CY	$95.00	$96,031
CIVIL	P-401 HMA SURFACE/BASE COURSE - TAXIWAY	997.09	TON	$200.00	$199,418
CIVIL	PROPOSED PAVEMENT MARKING YELLOW	651.00	SF	$5.00	$3,255
CIVIL	TACK COATS	413.06	GAL	$5.00	$2,065
CIVIL	TOPSOIL STRIPPING	247.00	CY	$20.00	$4,940
CIVIL	P-152 EXCAVATION OF EXISTING SOIL	3,452.00	CY	$20.00	$69,040
COST SUMMARY					
CONSTRUCTION COST					**$556,624**
SOFT COSTS				51.0%	$283,878
SUBTOTAL					**$840,502**
CONTINGENCY				25.0%	$210,125
TOTAL					**$1,050,627**

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2045 LONG-TERM PLAN (LTP) UPDATE

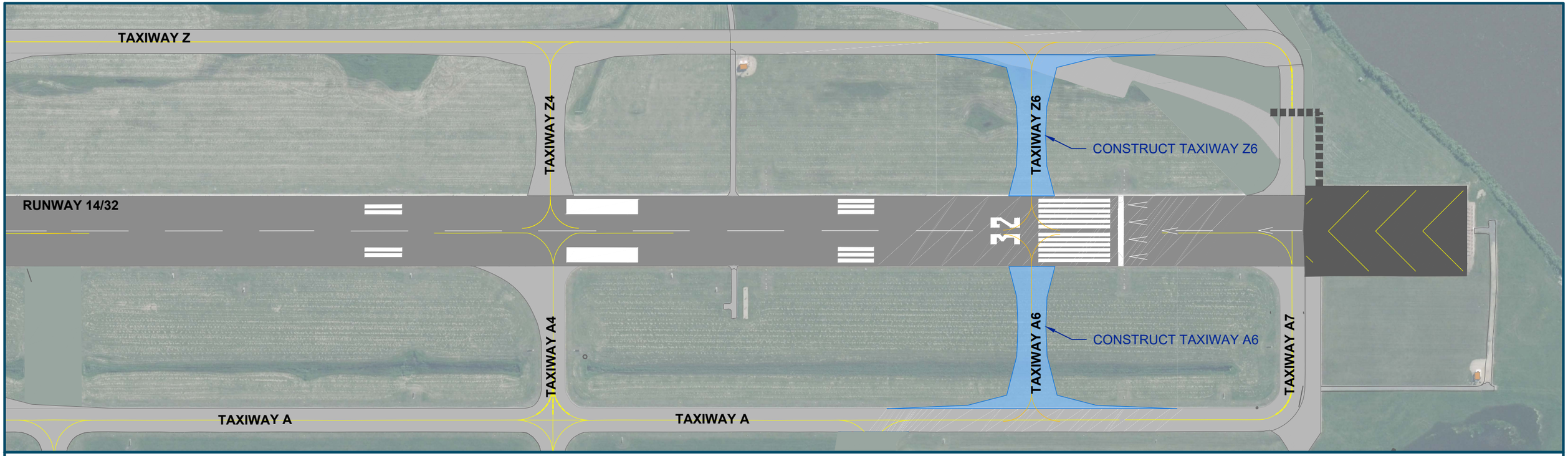
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SCALE (in ft.)

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APPENDIX B - FIGURE 13

CIP #13- CONSTRUCT TAXIWAY Z4 CONNECTOR



NOTES:

- PAVEMENT SECTION ASSUMED FROM THE PROPOSED TAXIWAY SECTION OF THE 2024 RUNWAY 14/32 RECONSTRUCTION PLANS.
- EARTHWORK QUANTITIES ASSUMED 1 FT OF EXCAVATION AND EMBANKMENT UNDER EXISTING PAVEMENT TO BE REMOVED, AND 4 FT OF EXCAVATION UNDER NEW PAVEMENT.

LEGEND	
EXISTING RUNWAY PAVEMENT	
EXISTING TAXILANE/TAXIWAY PAVEMENT	
EXISTING APRON PAVEMENT	
EXISTING BUILDINGS	
PROPOSED TAXIWAY	
EXISTING MARKINGS	
PROPOSED MARKINGS	

CIP 14

SECTION	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	COST
CIVIL	P-154 BOTTOM LAYER - TAXIWAY	7,566.04	CY	$50.00	$378,302
CIVIL	P-209 CRUSHED AGGREGATE BASE - TAXIWAY	2,067.41	CY	$95.00	$196,404
CIVIL	P-401 HMA SURFACE/BASE COURSE - TAXIWAY	1,995.33	TON	$200.00	$399,066
CIVIL	PROPOSED PAVEMENT MARKING YELLOW	1,307.00	SF	$5.00	$6,535
CIVIL	TACK COATS	828.60	GAL	$5.00	$4,143
CIVIL	TOPSOIL STRIPPING	582.00	CY	$20.00	$11,640
CIVIL	P-152 EXCAVATION OF EXISTING SOIL	8,136.00	CY	$20.00	$162,720
COST SUMMARY					
CONSTRUCTION COST					**$1,158,810**
SOFT COSTS				51.0%	$590,993
SUBTOTAL					**$1,749,804**
CONTINGENCY				25.0%	$437,451
TOTAL					**$2,187,255**

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2045 LONG-TERM PLAN (LTP) UPDATE

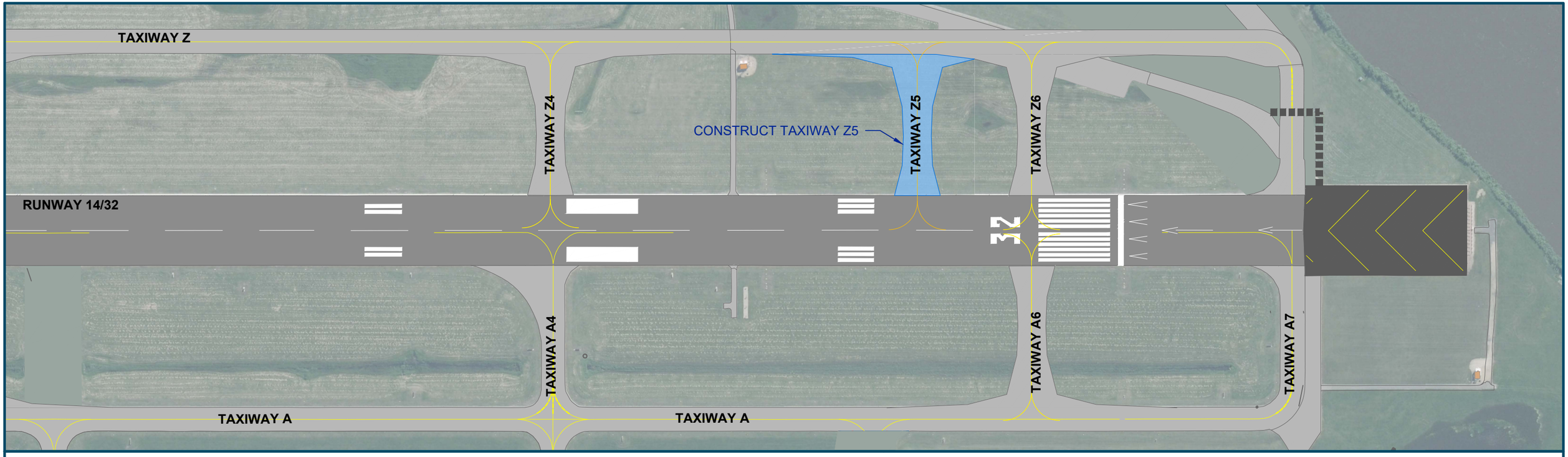
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SCALE (in ft.)

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APPENDIX B - FIGURE 14

CIP #14 - CONSTRUCT TAXIWAY Z6 AND A6 CONNECTORS



NOTES:

- PAVEMENT SECTION ASSUMED FROM THE PROPOSED TAXIWAY SECTION OF THE 2024 RUNWAY 14/32 RECONSTRUCTION PLANS.
- EARTHWORK QUANTITIES ASSUMED 1 FT OF EXCAVATION AND EMBANKMENT UNDER EXISTING PAVEMENT TO BE REMOVED, AND 4 FT OF EXCAVATION UNDER NEW PAVEMENT.

LEGEND	
EXISTING RUNWAY PAVEMENT	
EXISTING TAXILANE/TAXIWAY PAVEMENT	
EXISTING APRON PAVEMENT	
EXISTING BUILDINGS	
PROPOSED TAXIWAY	
EXISTING MARKINGS	
PROPOSED MARKINGS	

CIP 15

SECTION	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	COST
CIVIL	P-154 BOTTOM LAYER - TAXIWAY	3,535.72	CY	$50.00	$176,786
CIVIL	P-209 CRUSHED AGGREGATE BASE - TAXIWAY	981.82	CY	$95.00	$93,273
CIVIL	P-401 HMA SURFACE/BASE COURSE - TAXIWAY	967.15	TON	$200.00	$193,429
CIVIL	PROPOSED PAVEMENT MARKING YELLOW	654.00	SF	$5.00	$3,270
CIVIL	TACK COAT 1	310.00	GAL	$5.00	$1,550
CIVIL	TACK COAT 2	2,302.00	GAL	$5.00	$11,055
CIVIL	TOPSOIL STRIPPING	246.00	CY	$20.00	$4,920
CIVIL	P-152 EXCAVATION OF EXISTING SOIL	3,440.00	CY	$20.00	$68,800
COST SUMMARY					
CONSTRUCTION COST					**$553,083**
SOFT COSTS				51.0%	$282,073
SUBTOTAL					**$835,156**
CONTINGENCY				25.0%	$208,789
TOTAL					**$1,043,945**

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SAINT PAUL DOWNTOWN AIRPORT
2045 LONG-TERM PLAN (LTP) UPDATE

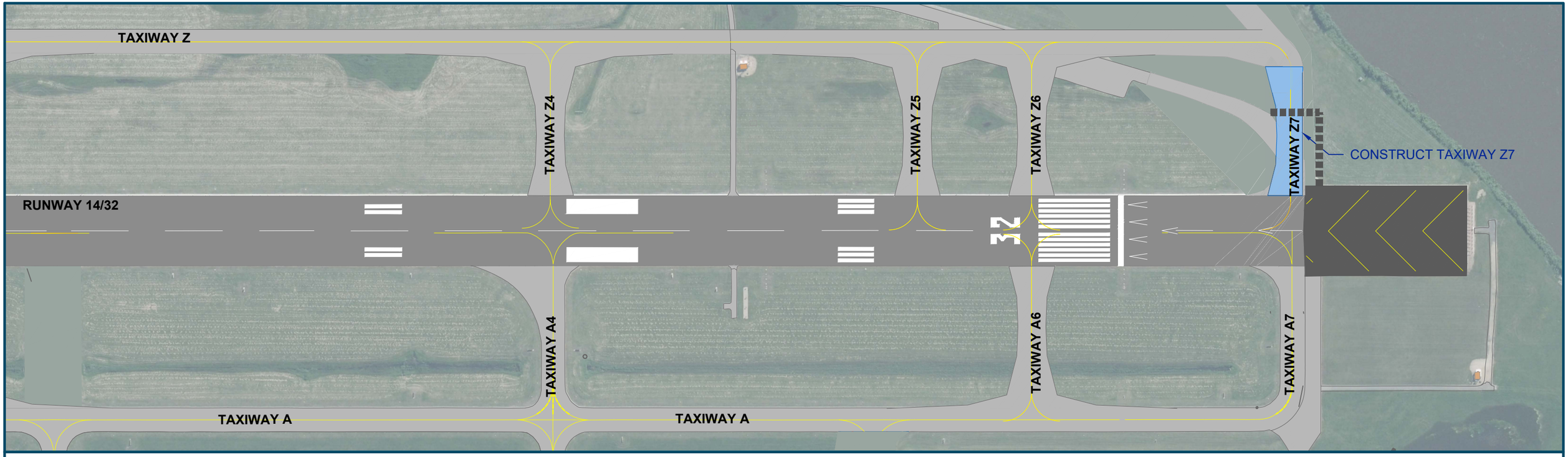
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SCALE (in ft.)

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APPENDIX B - FIGURE 15

CIP #15 - CONSTRUCT TAXIWAY Z5 CONNECTOR



NOTES:

- PAVEMENT SECTION ASSUMED FROM THE PROPOSED TAXIWAY SECTION OF THE 2024 RUNWAY 14/32 RECONSTRUCTION PLANS.
- EARTHWORK QUANTITIES ASSUMED 1 FT OF EXCAVATION AND EMBANKMENT UNDER EXISTING PAVEMENT TO BE REMOVED, AND 4 FT OF EXCAVATION UNDER NEW PAVEMENT.

LEGEND	
EXISTING RUNWAY PAVEMENT	
EXISTING TAXILANE/TAXIWAY PAVEMENT	
EXISTING APRON PAVEMENT	
EXISTING BUILDINGS	
PROPOSED TAXIWAY	
EXISTING MARKINGS	
PROPOSED MARKINGS	

CIP 16

SECTION	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	COST
CIVIL	P-401 HMA SURFACE/BASE COURSE - TAXIWAY	742.90	TON	$200.00	$148,579
CIVIL	P-209 CRUSHED AGGREGATE BASE - TAXIWAY	765.15	CY	$95.00	$72,690
CIVIL	P-154 BOTTOM LAYER - TAXIWAY	2,777.39	CY	$50.00	$138,870
CIVIL	PROPOSED PAVEMENT MARKING YELLOW	654.00	SF	$5.00	$3,270
CIVIL	TACK COATS	310.00	GAL	$5.00	$1,550
CIVIL	TOPSOIL STRIPPING	246.00	CY	$20.00	$4,920
CIVIL	P-152 EXCAVATION OF EXISTING SOIL	3,440.00	CY	$20.00	$68,800
COST SUMMARY					
CONSTRUCTION COST					**$438,678**
SOFT COSTS				51.0%	$223,726
SUBTOTAL					**$662,404**
CONTINGENCY				25.0%	$165,601
TOTAL					**$828,005**

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SAINT PAUL DOWNTOWN AIRPORT
2045 LONG-TERM PLAN (LTP) UPDATE

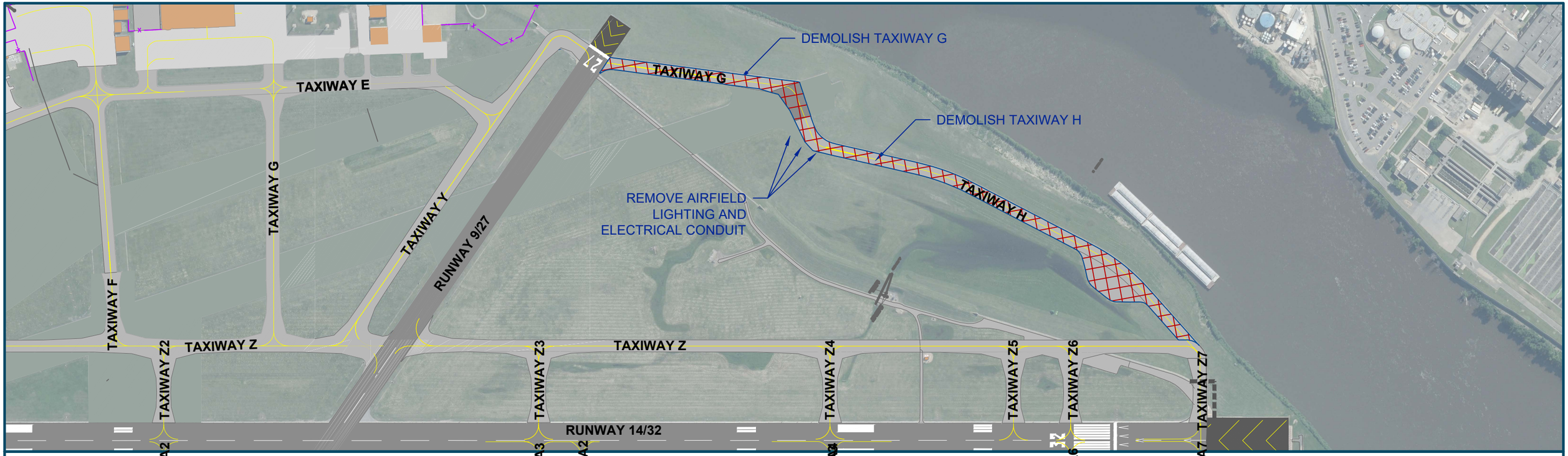
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SCALE (in ft.)

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APPENDIX B - FIGURE 16

CIP #16 - CONSTRUCT TAXIWAY Z7 CONNECTOR



NOTES:

- EARTHWORK QUANTITIES ASSUMED 1 FT OF EXCAVATION AND EMBANKMENT UNDER EXISTING PAVEMENT TO BE REMOVED, AND 4 FT OF EXCAVATION UNDER NEW PAVEMENT.

LEGEND	
EXISTING RUNWAY PAVEMENT	
EXISTING TAXILANE/TAXIWAY PAVEMENT	
EXISTING APRON PAVEMENT	
EXISTING BUILDINGS	
PROPOSED TAXIWAY	
EXISTING MARKINGS	
PROPOSED MARKINGS	
PROPOSED DEMOLITION	

CIP 17

SECTION	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	COST
CIVIL	P-152 EMBANKMENT	736.00	CY	$35.00	$25,760
CIVIL	DEMOLISH EXISTING ASPHALT 6"	26,516.00	SY	$7.50	$198,870
CIVIL	TOPSOIL STRIPPING	208.00	CY	$20.00	$4,160
CIVIL	P-152 EXCAVATION OF EXISTING SOIL	736.00	CY	$20.00	$14,720
CIVIL	T-905 TOPSOIL	245.00	CY	$20.00	$4,900
ELECTRICAL	DEMOLISH AIRFIELD ELECTRICAL CONDUIT	4,773.00	LF	$40.00	$190,920
ELECTRICAL	DEMOLISH AIRFIELD LIGHT	80.00	EA	$200.00	$16,000
COST SUMMARY					
CONSTRUCTION COST					**$455,330**
SOFT COSTS				51.0%	$232,218
SUBTOTAL					**$687,548**
CONTINGENCY				25.0%	$171,887
TOTAL					**$859,435**

NOTES:

- PAVEMENT SECTIONS ASSUMED FROM THE PROPOSED TAXIWAY SECTION OF THE 2024 RUNWAY 14/32 RECONSTRUCTION PLANS.
- EARTHWORK QUANTITIES ASSUMED 1 FT OF EXCAVATION AND EMBANKMENT UNDER EXISTING PAVEMENT TO BE REMOVED, AND 4 FT OF EXCAVATION UNDER NEW PAVEMENT.

STP

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SAINT PAUL DOWNTOWN AIRPORT
2045 LONG-TERM PLAN (LTP) UPDATE

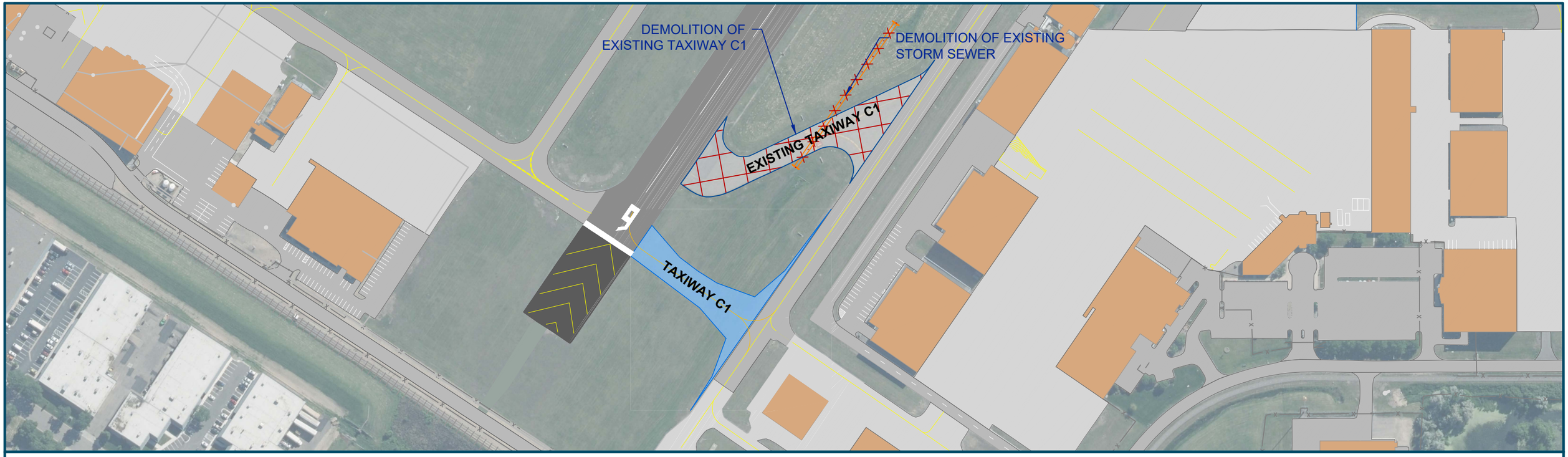
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SCALE (in ft.)

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APPENDIX B - FIGURE 17

CIP #17 - DEMOLISH EXISTING TAXIWAY G AND H



NOTES:

- EARTHWORK QUANTITIES ASSUMED 1 FT OF EXCAVATION AND EMBANKMENT UNDER EXISTING PAVEMENT TO BE REMOVED, AND 4 FT OF EXCAVATION UNDER NEW PAVEMENT.

LEGEND	
EXISTING RUNWAY PAVEMENT	
EXISTING TAXILANE/TAXIWAY PAVEMENT	
EXISTING APRON PAVEMENT	
EXISTING BUILDINGS	
PROPOSED DEMOLITION	
PROPOSED UTILITY DEMO	
PROPOSED TAXIWAY PAVEMENT	
EXISTING MARKINGS	

CIP A

SECTION	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	COST
CIVIL	P-154 BOTTOM LAYER - TAXIWAY	3,638.13	CY	$50.00	$181,907
CIVIL	P-209 CRUSHED AGGREGATE BASE - TAXIWAY	981.45	CY	$95.00	$93,238
CIVIL	P-401 HMA SURFACE/BASE COURSE - TAXIWAY	931.06	TON	$200.00	$186,211
CIVIL	PROPOSED PAVEMENT MARKING YELLOW	531.00	SF	$5.00	$2,655
CIVIL	P-152 EMBANKMENT	922.00	CY	$35.00	$32,270
CIVIL	TACK COATS	388.00	GAL	$5.00	$1,940
CIVIL	DEMOLISH EXISTING ASPHALT 6"	4,148.00	SY	$7.50	$31,110
CIVIL	TOPSOIL STRIPPING	308.00	CY	$20.00	$6,160
CIVIL	P-152 EXCAVATION OF EXISTING SOIL	4,311.00	CY	$20.00	$86,220
CIVIL	T-905 TOPSOIL	461.00	CY	$20.00	$9,220
UTILITIES	DEMOLISH STORM SEWER	388.00	LF	$50.00	$19,400
COST SUMMARY					
CONSTRUCTION COST					**$650,331**
SOFT COSTS				51.0%	$331,669
SUBTOTAL					**$981,999**
CONTINGENCY				25.0%	$245,500
TOTAL					**$1,227,499**

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SAINT PAUL DOWNTOWN AIRPORT
2045 LONG-TERM PLAN (LTP) UPDATE

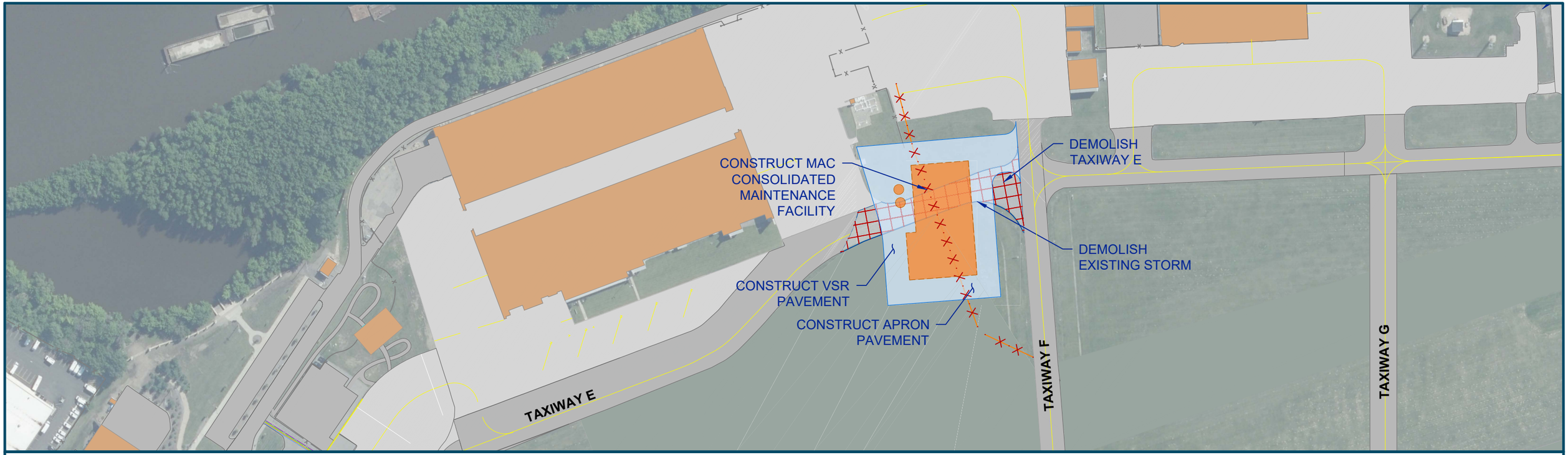
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SCALE (in ft.)

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APPENDIX B - FIGURE 18

CIP A - DEMOLISH AND CONSTRUCT C1 CONNECTOR



NOTES:

- VSR PAVEMENT SECTION IS INCLUDED IN THIS COST PROPOSAL.
- APRON PAVEMENT SECTION IS NOT INCLUDED IN THIS COST PROPOSAL.
- SRE BUILDING COSTS ARE CASED ON A SQUARE FOOT COST BY ROOM FUNCTION.

LEGEND	
EXISTING RUNWAY PAVEMENT	
EXISTING TAXILANE/TAXIWAY PAVEMENT	
EXISTING APRON PAVEMENT	
EXISTING BUILDINGS	
PROPOSED DEMOLITION	
PROPOSED UTILITY DEMO	
PROPOSED TAXIWAY PAVEMENT	
EXISTING MARKINGS	

CIP B					
SECTION	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	COST
CIVIL	P-401 ASPHALT TOP LAYER PAVEMENT - VSR	1,518.27	TON	$200.00	$303,654
CIVIL	P-154 BOTTOM LAYER - VSR	10,273.62	CY	$50.00	$513,681
CIVIL	PROPOSED PAVEMENT MARKING YELLOW	4,084.00	SF	$5.00	$20,420
CIVIL	P-152 EMBANKMENT	964.00	CY	$35.00	$33,740
CIVIL	PROPOSED WATER UTILITY	4,113.00	LF	$175.00	$719,775
CIVIL	DEMOLISH EXISTING ASPHALT 6"	7,052.00	SY	$7.50	$52,890
CIVIL	TOPSOIL STRIPPING	5,554.00	CY	$20.00	$111,080
CIVIL	PROPOSED GAS UTILITY	4,113.00	LF	$250.00	$1,028,250
CIVIL	PROPOSED STORM SEWER UTILITY	4,113.00	LF	$60.00	$246,780
CIVIL	PROPOSED COMM UTILITY	4,113.00	LF	$100.00	$411,300
CIVIL	PROPOSED SANITARY UTILITY	4,113.00	LF	$75.00	$308,475
CIVIL	P-152 EXCAVATION OF EXISTING BASE MATERIAL	5,442.00	CY	$20.00	$108,840
CIVIL	P-152 EXCAVATION OF EXISTING SOIL	77,746.00	CY	$20.00	$1,554,920
CIVIL	T-905 TOPSOIL	482.00	CY	$20.00	$9,640
BUILDING	SRE GENERAL ROOMS	31,458.00	SF	$285.00	$8,965,530
BUILDING	SRE ADMIN OFFICES	12,270.00	SF	$450.00	$5,521,500
UTILITIES	DEMOLISH STORM SEWER	650	LF	$50.00	$19,400
COST SUMMARY					
CONSTRUCTION COST					**$19,929,875**
SOFT COSTS				51.0%	$10,164,236
SUBTOTAL					**$30,094,112**
CONTINGENCY				25.0%	$7,523,528
TOTAL					**$37,617,640**

STP

MAC

SAINT PAUL DOWNTOWN AIRPORT
2045 LONG-TERM PLAN (LTP) UPDATE

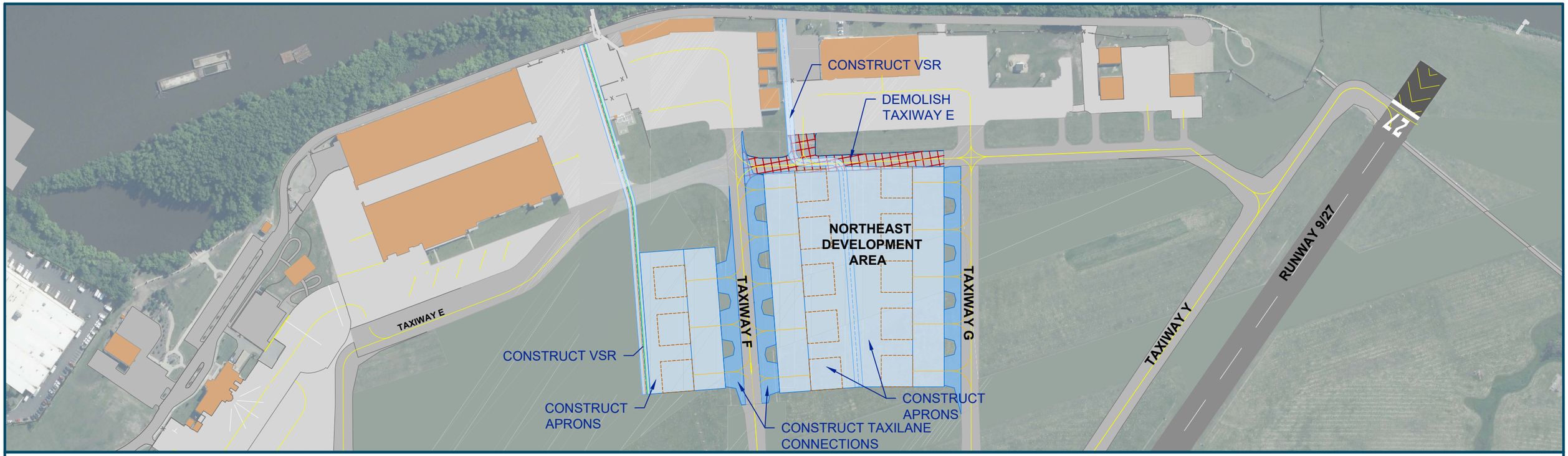
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SCALE (in ft.)

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APPENDIX B - FIGURE 19

CIP B - CONSTRUCT MAC CONSOLIDATED MAINTENANCE FACILITY



NOTES:

- HANGAR SITE DEVELOPMENT COSTS INCLUDE ASSOCIATED SITE IMPROVEMENTS, BUT NOT INCLUDE HANGAR BUILDING CONSTRUCTION COSTS.

LEGEND	
EXISTING RUNWAY PAVEMENT	
EXISTING TAXILANE/TAXIWAY PAVEMENT	
EXISTING APRON PAVEMENT	
EXISTING BUILDINGS	
PROPOSED DEMOLITION	
FUTURE ELECTRICAL UTILITY	
FUTURE STORM UTILITY	
FUTURE SEWER UTILITY	
FUTURE WATER UTILITY	
FUTURE COMM UTILITY	
PROPOSED TAXIWAY CONNECTIONS	
PROPOSED NEW APRON PAVEMENT	
EXISTING MARKINGS	

CIP C

SECTION	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	COST
CIVIL	P-154 BOTTOM LAYER - TAXIWAY	18,743.24	CY	$50.00	$937,162
CIVIL	P-209 CRUSHED AGGREGATE BASE - TAXIWAY	5,285.49	CY	$95.00	$502,122
CIVIL	P-401 HMA SURFACE/BASE COURSE - TAXIWAY	5,257.73	TON	$200.00	$1,051,546
CIVIL	TACK COAT 1	2,190.72	GAL	$5.00	$10,954
UTILITIES	DEMOLISH STORM SEWER	163	LF	$50.00	$19,400
COST SUMMARY					
CONSTRUCTION COST					**$2,521,183**
SOFT COSTS				51.0%	$1,285,803
SUBTOTAL					**$3,806,986**
CONTINGENCY				25.0%	$951,746
TOTAL					**$4,758,732**

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MAC

SAINT PAUL DOWNTOWN AIRPORT
2045 LONG-TERM PLAN (LTP) UPDATE

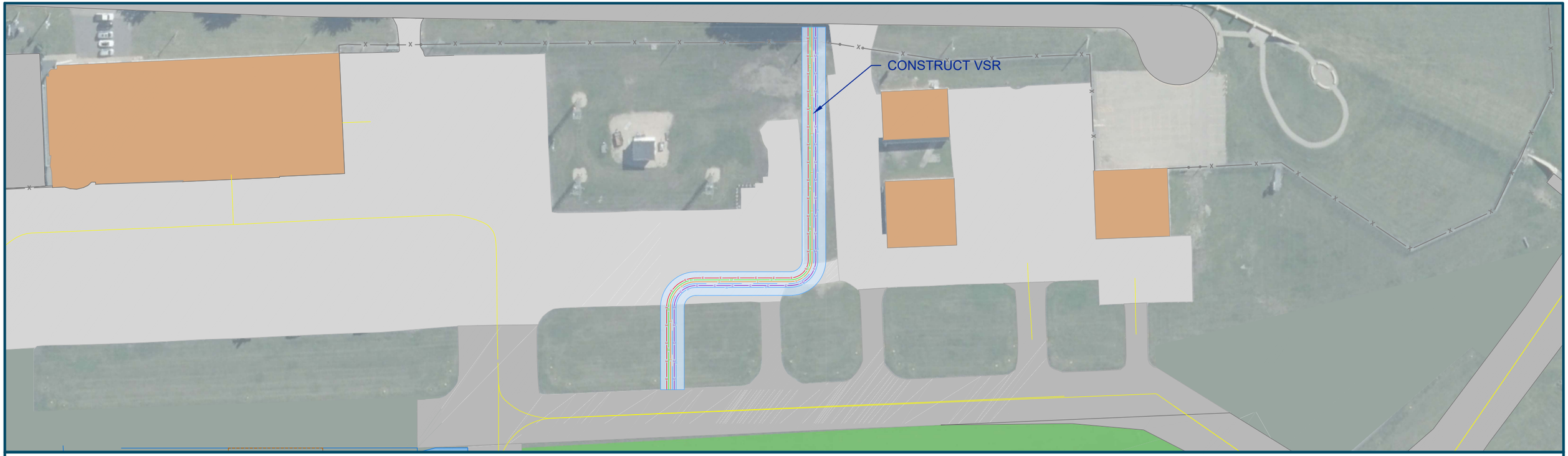
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SCALE (in ft.)

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APPENDIX B - FIGURE 20

CIP C - CONSTRUCT NORTHEAST DEVELOPMENT AREA AND VSRS



NOTES:

- UTILITY LENGTHS ARE ONLY INSTALLED UNDER VSR LIMITS

LEGEND	
EXISTING RUNWAY PAVEMENT	
EXISTING TAXILANE/TAXIWAY PAVEMENT	
EXISTING APRON PAVEMENT	
EXISTING BUILDINGS	
PROPOSED APRON	
FUTURE ELECTRICAL UTILITY	
FUTURE STORM UTILITY	
FUTURE SEWER UTILITY	
FUTURE WATER UTILITY	
FUTURE COMM UTILITY	
LANDSIDE OUTLINE	
EXISTING MARKINGS	

CIP D

SECTION	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	COST
CIVIL	P-154 BOTTOM LAYER - VSR	2,141.07	CY	$50.00	$107,054
CIVIL	P-401 ASPHALT TOP LAYER PAVEMENT - VSR	318.53	TON	$200.00	$63,706
CIVIL	PROPOSED WATER UTILITY	511.00	LF	$175.00	$89,425
CIVIL	TACK COATS	200.00	GAL	$5.00	$1,000
CIVIL	TOPSOIL STRIPPING	308.00	CY	$20.00	$6,160
CIVIL	PROPOSED GAS UTILITY	511.00	LF	$250.00	$127,750
CIVIL	PROPOSED STORM SEWER UTILITY	511.00	LF	$60.00	$30,660
CIVIL	PROPOSED COMM UTILITY	511.00	LF	$100.00	$51,100
CIVIL	PROPOSED SANITARY UTILITY	511.00	LF	$75.00	$38,325
COST SUMMARY					
CONSTRUCTION COST					**$515,179**
SOFT COSTS				51.0%	$262,741
SUBTOTAL					**$777,921**
CONTINGENCY				25.0%	$194,480
TOTAL					**$972,401**

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MAC

SAINT PAUL DOWNTOWN AIRPORT
2045 LONG-TERM PLAN (LTP) UPDATE

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SCALE (in ft.)

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APPENDIX B - FIGURE 21

CIP D - CONSTRUCT TAXIWAY S VSR



NOTES:

- EARTHWORK QUANTITIES ASSUMED 1 FT OF EXCAVATION AND EMBANKMENT UNDER EXISTING PAVEMENT TO BE REMOVED, AND 4 FT OF EXCAVATION UNDER NEW PAVEMENT.
- UTILITIES ARE ONLY SHOWN TO THE PROPOSED SITE LOCATION FOR FUTURE CONNECTION.

LEGEND	
EXISTING RUNWAY PAVEMENT	
EXISTING TAXILANE/TAXIWAY PAVEMENT	
EXISTING APRON PAVEMENT	
EXISTING BUILDINGS	
PROPOSED DEMOLITION	
PAD READY SITE	
FUTURE ELECTRICAL UTILITY	
FUTURE STORM UTILITY	
FUTURE SEWER UTILITY	
FUTURE WATER UTILITY	
FUTURE COMM UTILITY	
PROPOSED UTILITY DEMO	
EXISTING MARKINGS	

CIP E

SECTION	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	COST
CIVIL	P-154 BOTTOM LAYER - VSR	2,141.07	CY	$50.00	$107,054
CIVIL	P-401 ASPHALT TOP LAYER PAVEMENT - VSR	318.53	TON	$200.00	$63,706
CIVIL	P-152 EMBANKMENT	15,000.00	CY	$35.00	$525,000
CIVIL	PROPOSED WATER UTILITY	366.00	LF	$175.00	$64,050
CIVIL	TACK COATS	199.08	GAL	$5.00	$995
CIVIL	PROPOSED GAS UTILITY	366.00	LF	$250.00	$91,500
CIVIL	PROPOSED STORM SEWER UTILITY	366.00	LF	$60.00	$21,960
CIVIL	PROPOSED COMM UTILITY	366.00	LF	$100.00	$36,600
CIVIL	PROPOSED SANITARY UTILITY	366.00	LF	$75.00	$27,450
COST SUMMARY					
CONSTRUCTION COST					**$938,315**
SOFT COSTS				51.0%	$478,540
SUBTOTAL					**$1,416,855**
CONTINGENCY				25.0%	$354,214
TOTAL					**$1,771,069**

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MINNEAPOLIS SAINT PAUL METROPOLITAN AIRPORTS COMMISSION MAC

SAINT PAUL DOWNTOWN AIRPORT
2045 LONG-TERM PLAN (LTP) UPDATE

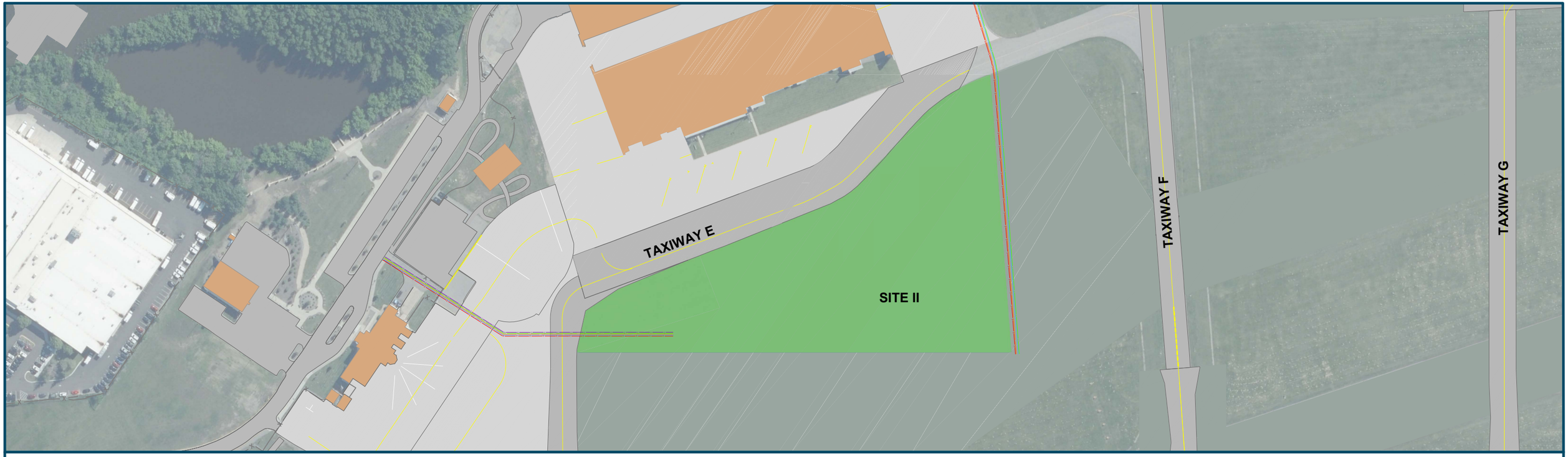
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SCALE (in ft.)

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APPENDIX B - FIGURE 22

CIP E - CONSTRUCT PAD READY AAM SITE I



NOTES:

- EARTHWORK QUANTITIES ASSUMED 1 FT OF EXCAVATION AND EMBANKMENT UNDER EXISTING PAVEMENT TO BE REMOVED, AND 4 FT OF EXCAVATION UNDER NEW PAVEMENT.
- UTILITIES ARE ONLY SHOWN TO THE PROPOSED SITE LOCATION FOR FUTURE CONNECTION.

LEGEND	
EXISTING RUNWAY PAVEMENT	
EXISTING TAXILANE/TAXIWAY PAVEMENT	
EXISTING APRON PAVEMENT	
EXISTING BUILDINGS	
PROPOSED DEMOLITION	
PAD READY SITE	
FUTURE ELECTRICAL UTILITY	
FUTURE STORM UTILITY	
FUTURE SEWER UTILITY	
FUTURE WATER UTILITY	
FUTURE COMM UTILITY	
PROPOSED UTILITY DEMO	
EXISTING MARKINGS	

CIP F

SECTION	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	COST
CIVIL	P-152 EMBANKMENT	10,000.00	CY	$35.00	$350,000
CIVIL	PROPOSED WATER UTILITY	1,141.00	LF	$175.00	$199,675
CIVIL	PROPOSED GAS UTILITY	1,141.00	LF	$250.00	$285,250
CIVIL	PROPOSED STORM SEWER UTILITY	1,141.00	LF	$60.00	$68,460
CIVIL	PROPOSED COMM UTILITY	1,141.00	LF	$100.00	$114,100
CIVIL	PROPOSED SANITARY UTILITY	1,141.00	LF	$75.00	$85,575
COST SUMMARY					
CONSTRUCTION COST					**$1,103,060**
SOFT COSTS				51.0%	$562,561
SUBTOTAL					**$1,665,621**
CONTINGENCY				25.0%	$416,405
TOTAL					**$2,082,026**

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MAC

SAINT PAUL DOWNTOWN AIRPORT
2045 LONG-TERM PLAN (LTP) UPDATE

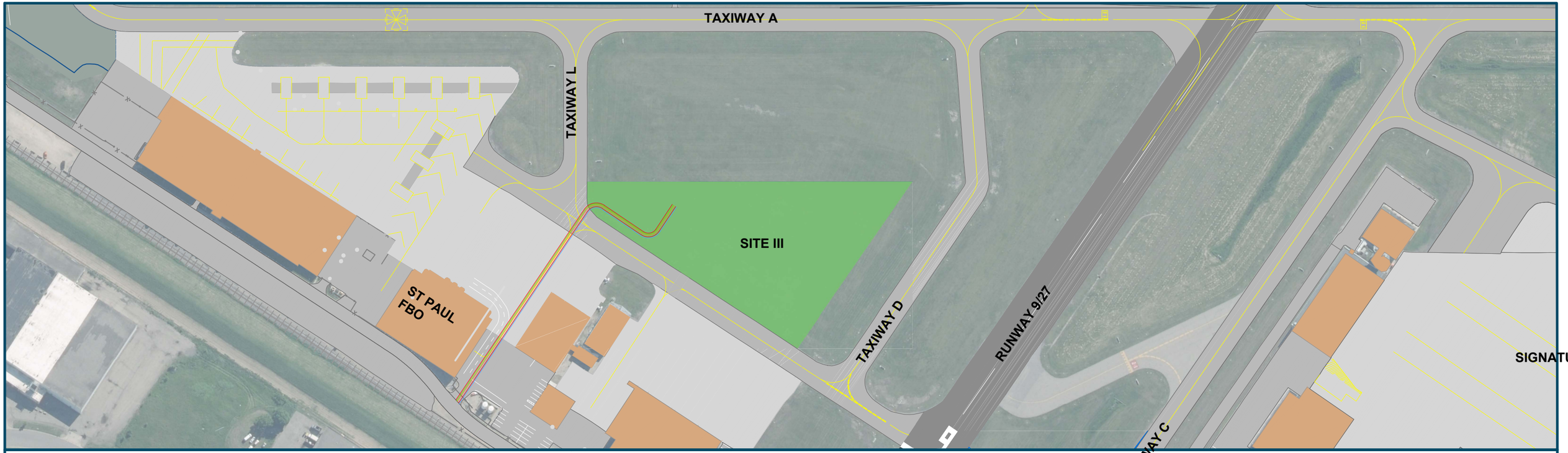
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SCALE (in ft.)

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Kimley»Horn

APPENDIX B - FIGURE 23

CIP F - CONSTRUCT PAD READY AAM SITE II



NOTES:

- EARTHWORK QUANTITIES ASSUMED 1 FT OF EXCAVATION AND EMBANKMENT UNDER EXISTING PAVEMENT TO BE REMOVED, AND 4 FT OF EXCAVATION UNDER NEW PAVEMENT.
- UTILITIES ARE ONLY SHOWN TO THE PROPOSED SITE LOCATION FOR FUTURE CONNECTION.

LEGEND	
EXISTING RUNWAY PAVEMENT	
EXISTING TAXILANE/TAXIWAY PAVEMENT	
EXISTING APRON PAVEMENT	
EXISTING BUILDINGS	
PAD READY SITE	
FUTURE ELECTRICAL UTILITY	
FUTURE STORM UTILITY	
FUTURE SEWER UTILITY	
FUTURE WATER UTILITY	
FUTURE COMM UTILITY	
PROPOSED UTILITY DEMO	
EXISTING MARKINGS	

CIP G

SECTION	PAY ITEM	QUANTITY	UNIT	UNIT PRICE	COST
CIVIL	P-152 EMBANKMENT	5,000.00	CY	$35.00	$175,000
CIVIL	PROPOSED WATER UTILITY	625.00	LF	$175.00	$109,375
CIVIL	PROPOSED GAS UTILITY	625.00	LF	$250.00	$156,250
CIVIL	PROPOSED STORM SEWER UTILITY	625.00	LF	$60.00	$37,500
CIVIL	PROPOSED COMM UTILITY	625.00	LF	$100.00	$62,500
CIVIL	PROPOSED SANITARY UTILITY	625.00	LF	$75.00	$46,875
COST SUMMARY					
CONSTRUCTION COST					**$587,500**
SOFT COSTS				51.0%	$299,625
SUBTOTAL					**$887,125**
CONTINGENCY				25.0%	$221,781
TOTAL					**$1,108,906**