

**Farmingdale
State College**
State University of New York

ARC 476
Architectural Design 4
Fall 2022- 95517

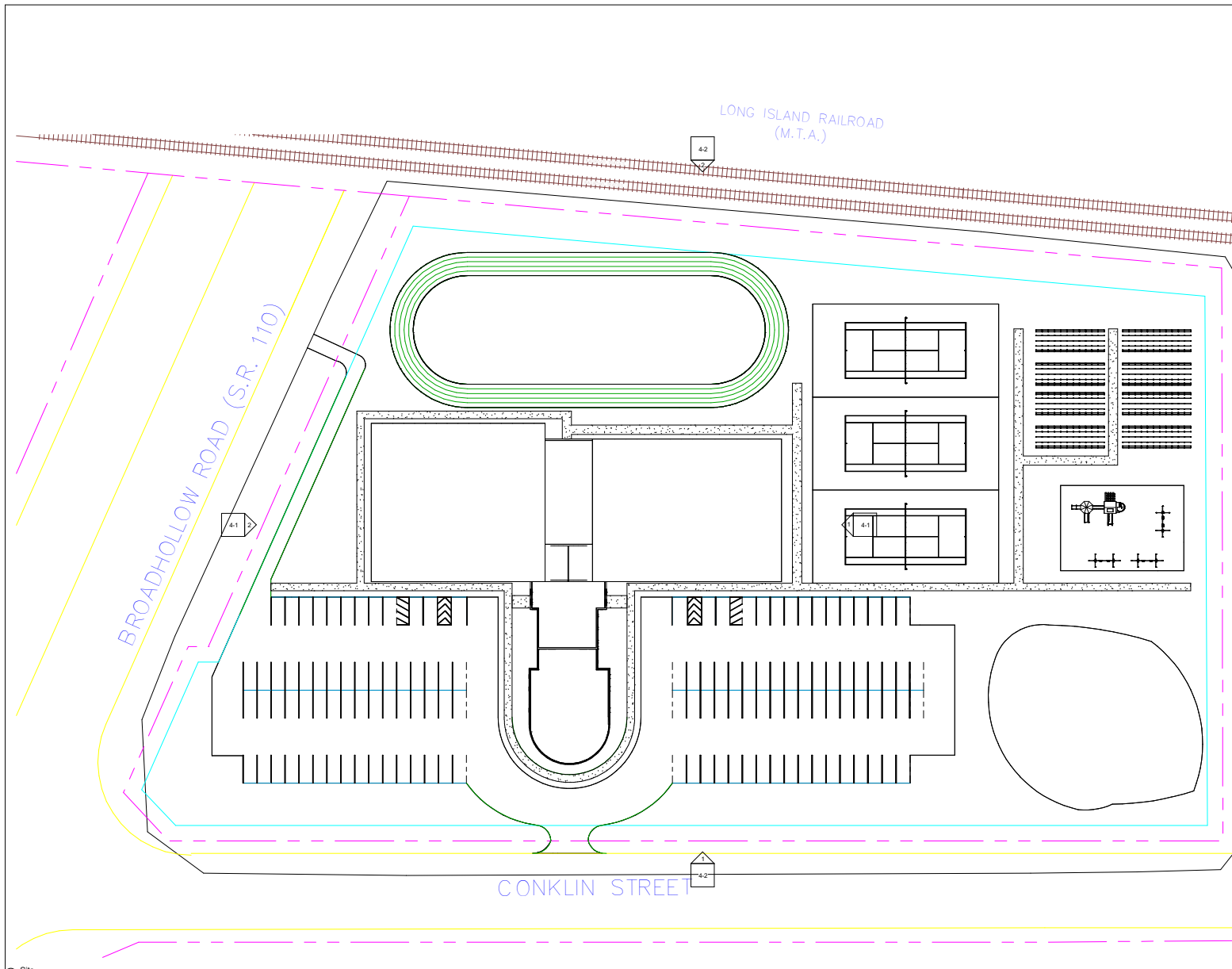
Scale:
1"=20'0"
1"=40'0"

By William Cortez

Title sheet



T-1



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Site Location- at the corner of route 110 and Conklin Street

One entrance/ exit on Conklin street and one exit only on route 110

Lot area- 5.64 Acres
Zoning- Type G but allowed some building types from type E as well
Building Footprint- 29,200 SF
Building Area Total- 31,917 SF
Parking lot spaces- 128 including 6 handicap spaces

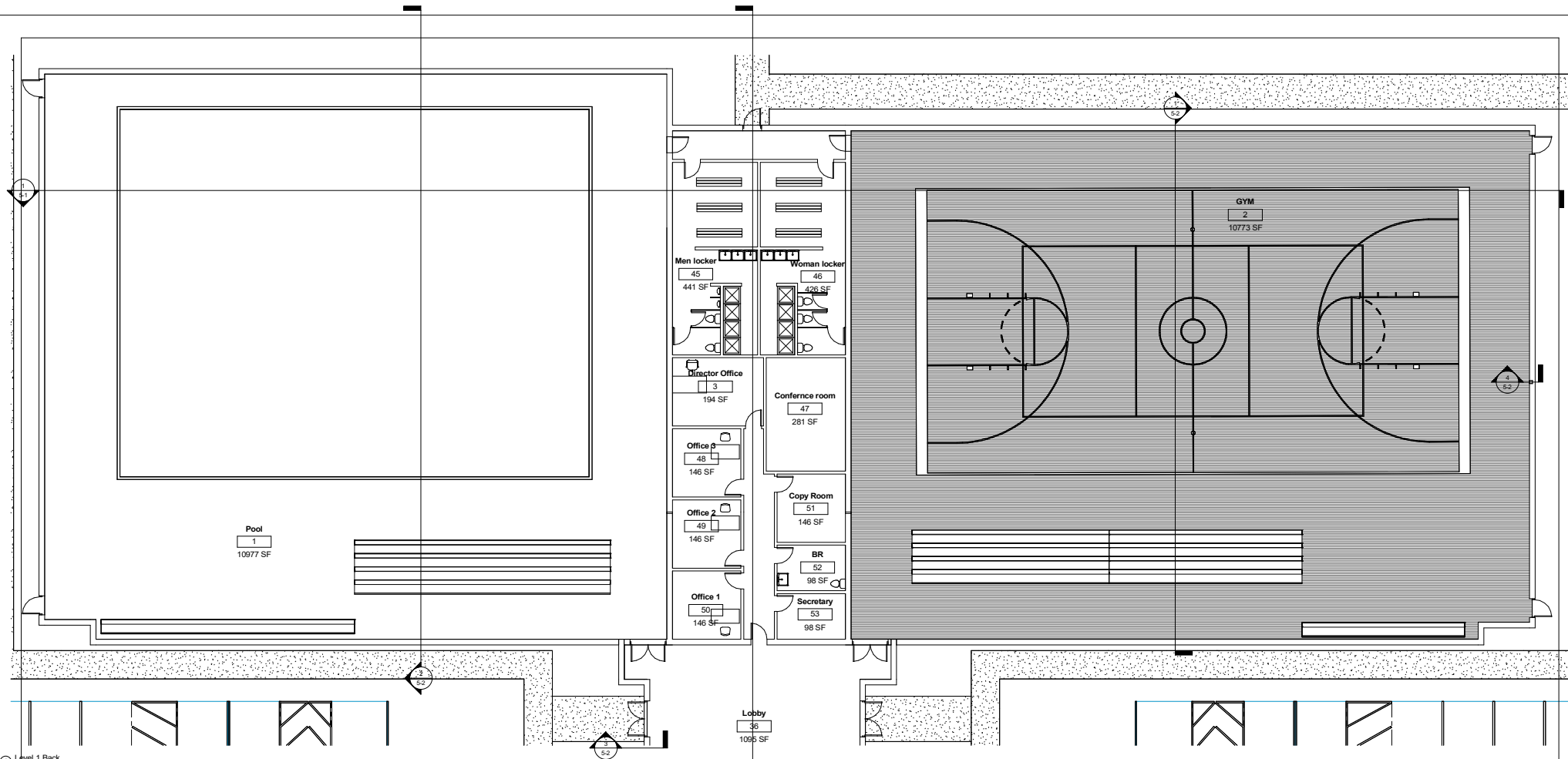
Included on site:
3 tennis courts
Green House/ Graden on northeast side of site
Playground on east side of site
Pond on southeast side of site
Track behind the building(not up to standard size)

By William Cortez

Site plan
Scale: 1"=30'-0"



SP-1



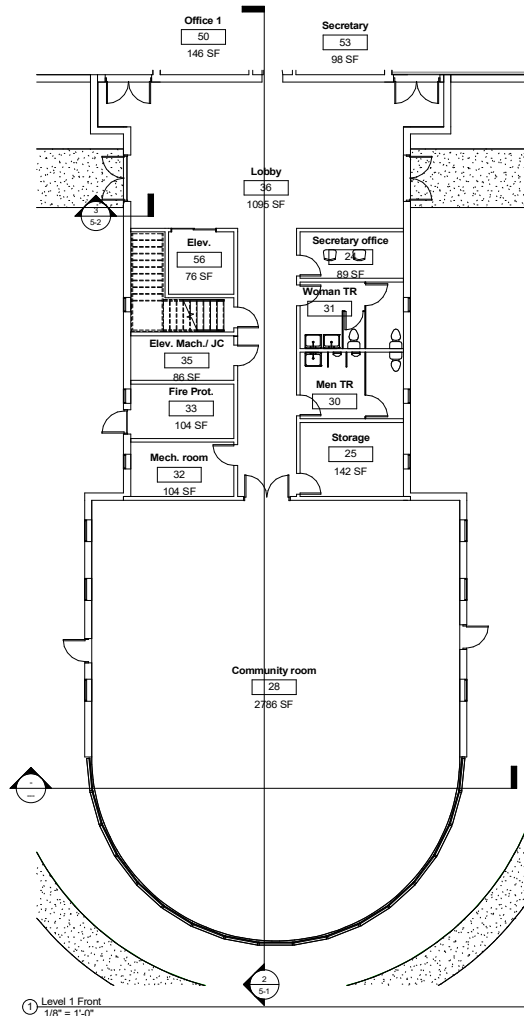
Pool-10,977 SF

Locker room-1,181 SF
Offices-1,441 SF

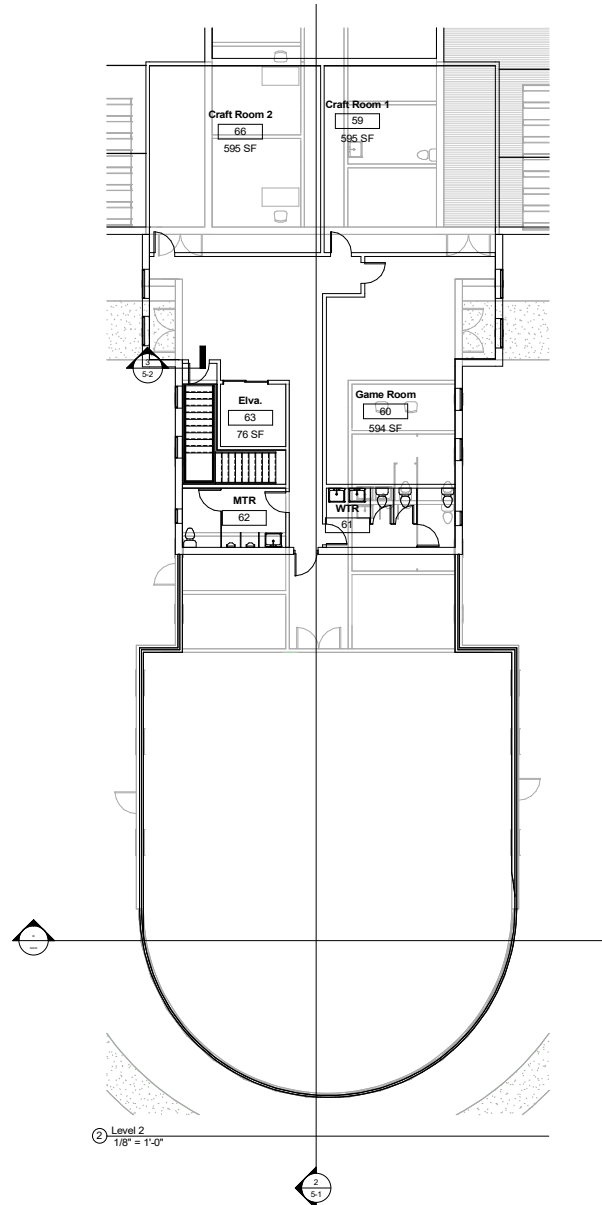
Gym-10,773 SF

Total SF-24,372 SF

First Floor



Second Floor



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Total 1st Fl SF-4,807
SF
Community
Room-2,747 SF
Utility-965 SF

Total 2nd Fl SF- 2,738
Game Room- 595 SF
Craft Rooms- 1,189 SF
Utilitys- 453

Total SF-7,545

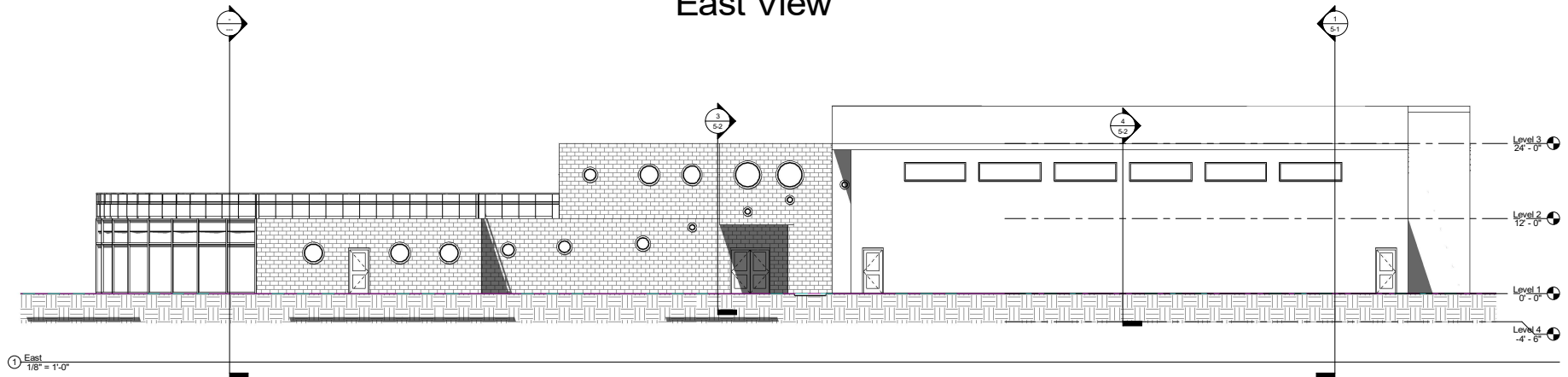
By William Cortez

1st & 2nd Fl plan
Scale: 1/8"=1'0"

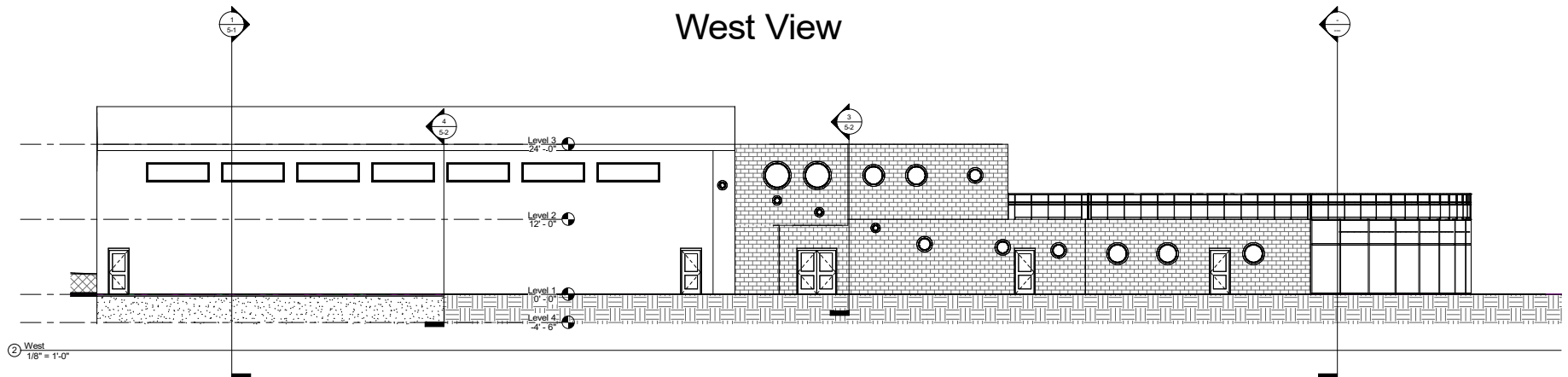


A-1

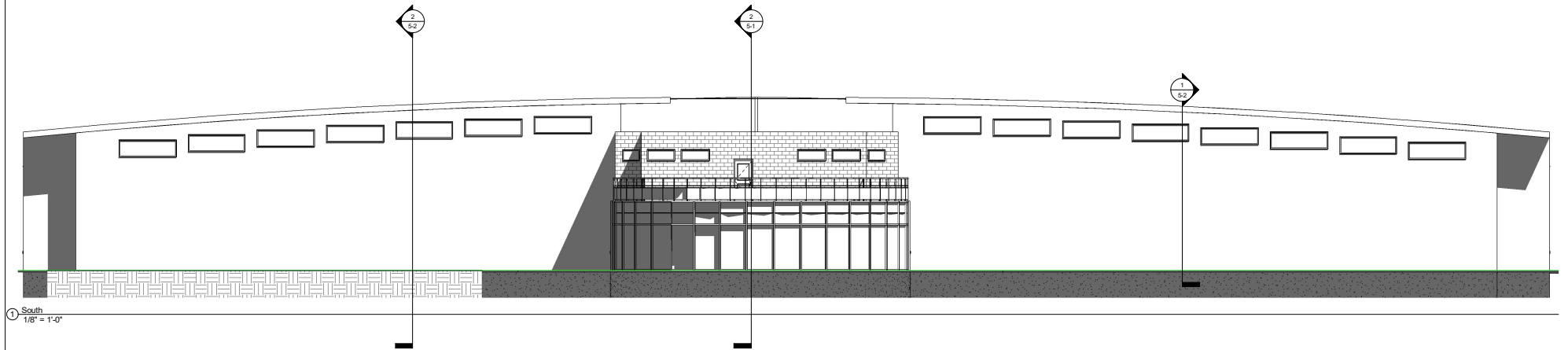
East View



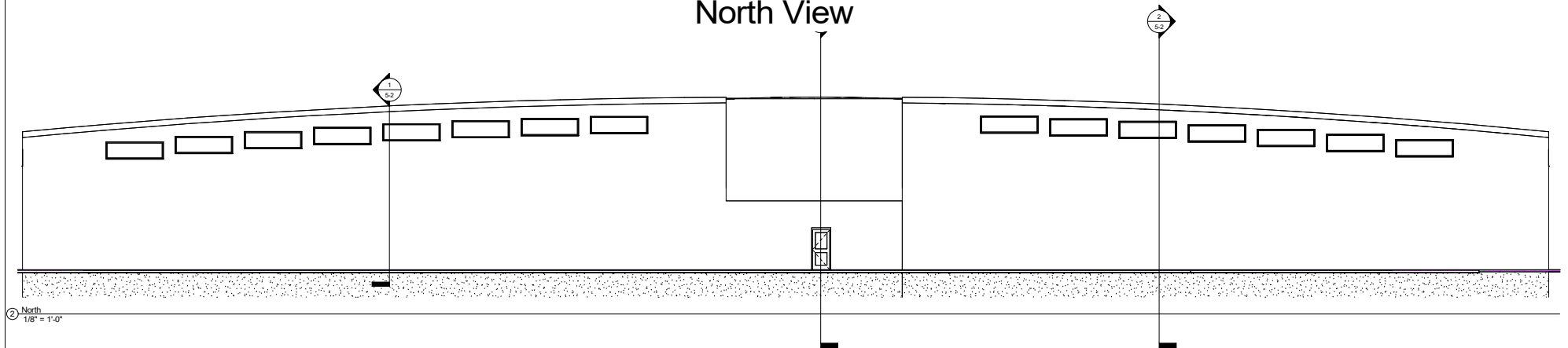
West View



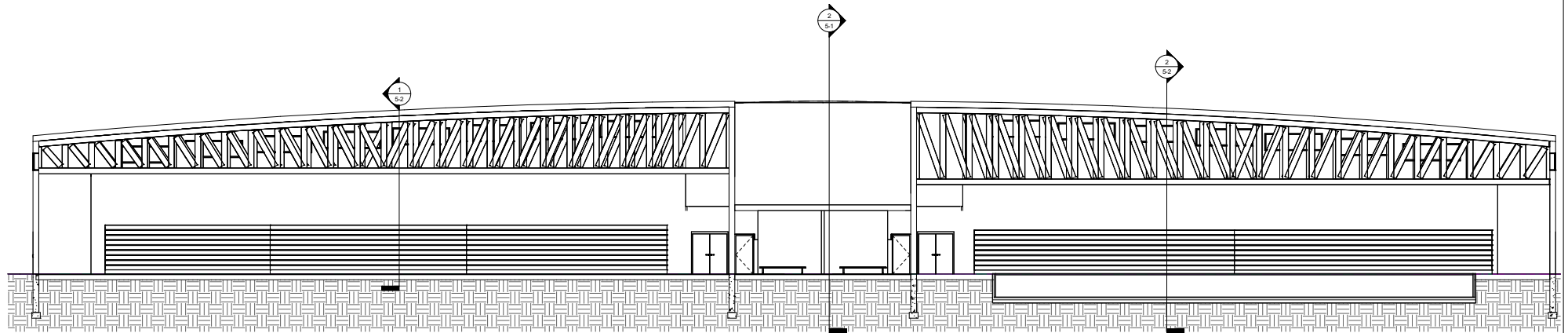
South View



North View

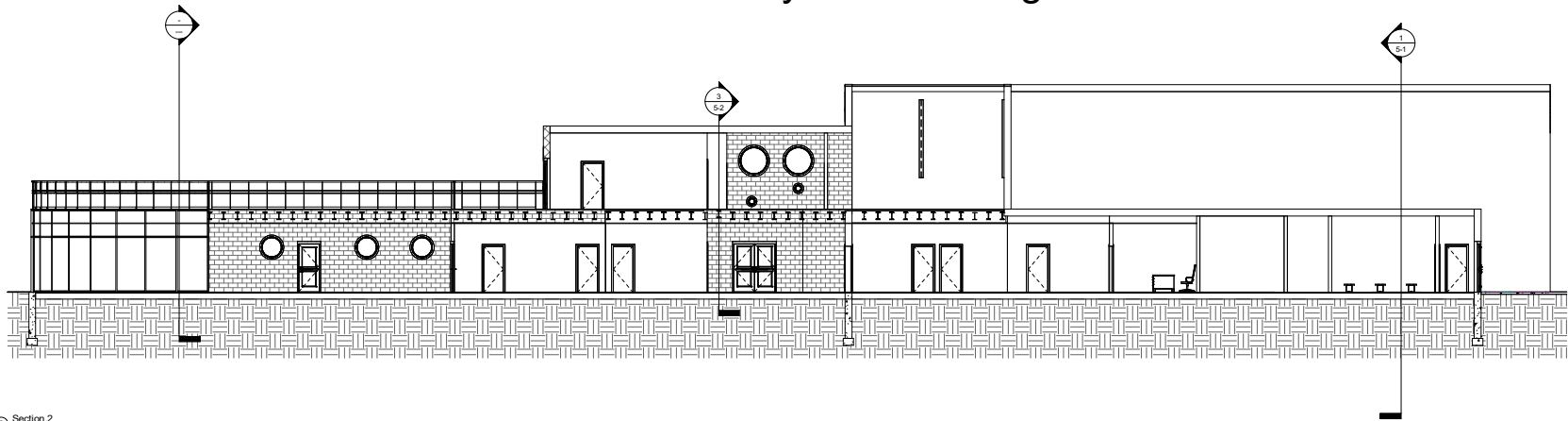


Active Area Building Section

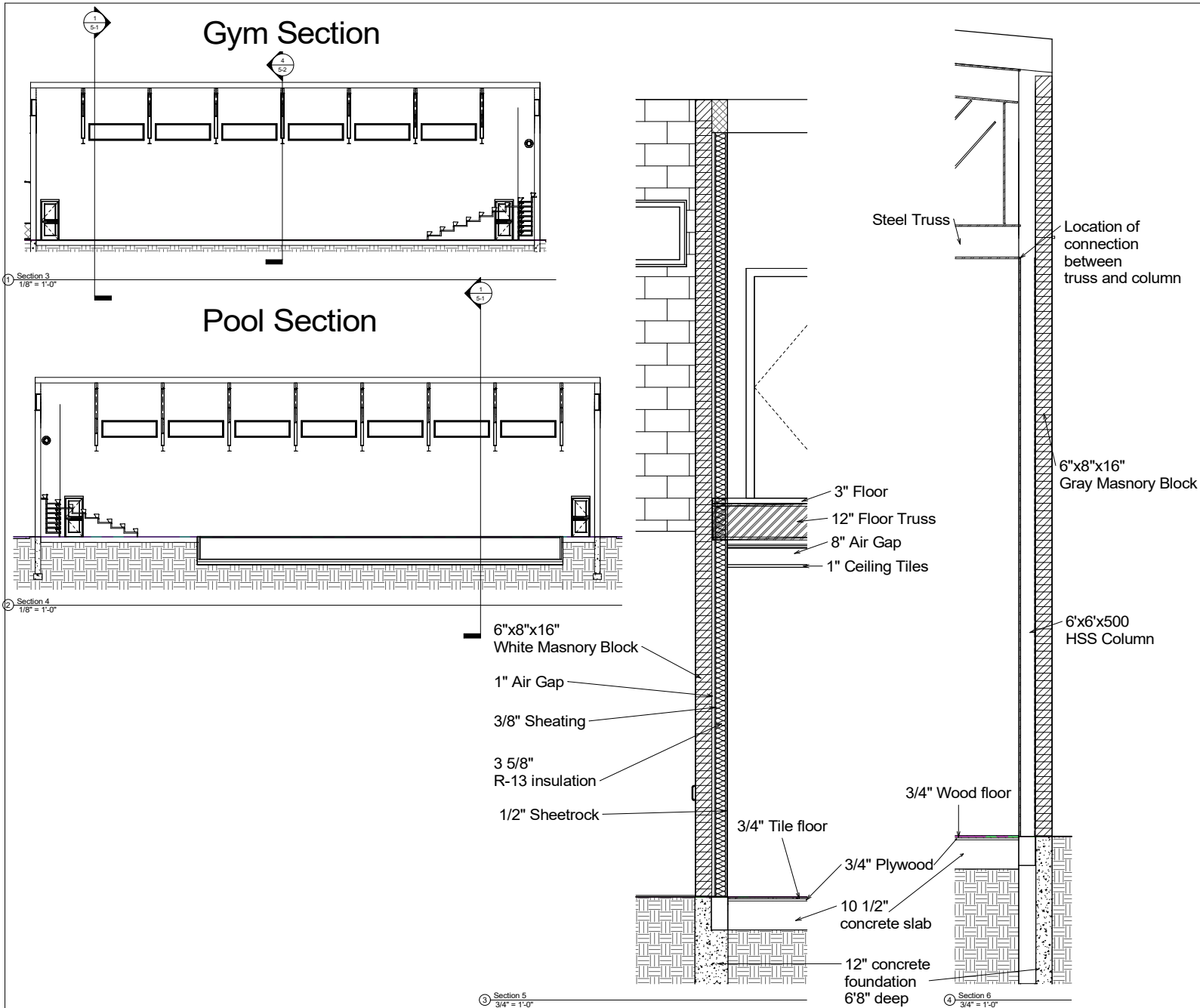


① Section 8
1/8" = 1'-0"

Office & Activity Area Building Section



② Section 2
1/8" = 1'-0"



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Gym & Pool Section
Scale: 1/8" = 1'0"

Wall Section
Scale: 3/4" = 1'0"

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Wall Section

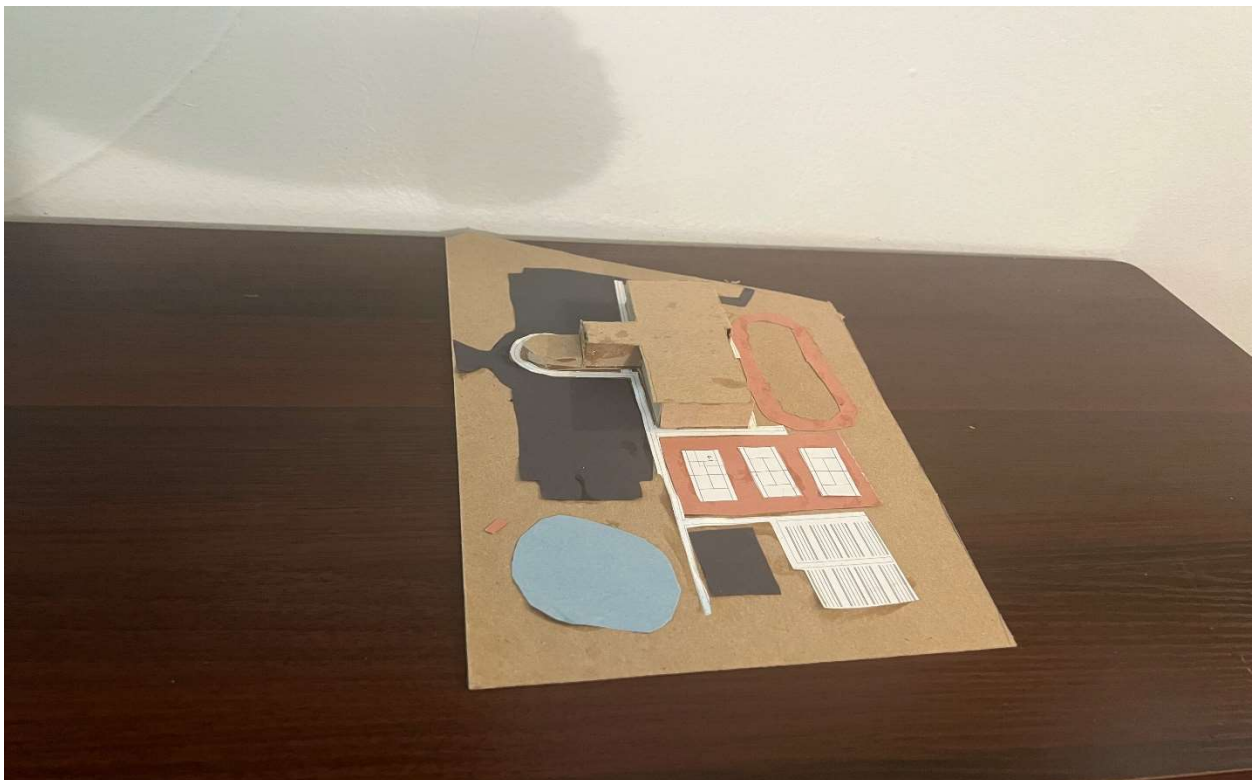


A-3

West Elevation



East Elevation



South Elevation



North elevation



RENOVATION	Net Square Area		Gross Square Area	Cost per GSF		Cost by Task/Facility
Assembly	0	x1.45	0	\$	276	\$ -
Business	0	x1.50	0	\$	267	\$ -
Other:	0	LS	0	\$	-	\$ -
Demolition	0	x1.50	245678.4	\$	21	\$ 5,226,721.97

NEW CONSTRUCTION	Net Square Area		Gross Square Area	Cost per GSF		Cost by Task/Facility
Assembly	24497	x1.45	34295.8	\$	296	\$ 10,157,380.36
Business	1441	x1.50	2161.5	\$	285	\$ 616,932.91
Other:	5979	x1.50	8968.5	\$	275	\$ 2,466,337.50
Parking Lot, New	0	100	50209.39	\$	27	\$ 1,366,498.76
Concrete Sidewalk		na	9089	\$	21	\$ 187,733.30
Landscaping		na	127916.72	\$	14	\$ 1,761,413.23
Glass			2770	\$	7.00	\$ 19,390.00
Tempered glass			964.59	\$	20.00	\$ 19,291.80

EQUIPMENT			Net Square Area	Cost per NSF		Cost by Task/Facility
Interior Equipment - Gymnasium			10773	\$	47	\$ 509,024.25
Bleachers						\$ 40,000.00
Pool						\$ 300,000.00
Bakestball Court		35500				\$ 35,500.00
Interior Equipment - Office			1441	\$	27	\$ 38,907.00
Desk and chairs						\$ 4,200.00
Exterior Equipment - Walks and Yards			9089	\$	26	\$ 236,314.00
Running Track						\$ 54,000.00
Garden	8	11,748				\$ 93,984.00
Playground						\$ 37,310.00
Pond		164000				\$ 164,000.00
Tennis courts	3	60000				\$ 180,000.00

Subtotal, Project Construction, Fees, and Contingency						\$ 23,514,939.08
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FACTORS	Subtotal	x Factor	
Project Costs - Less than \$1 million	\$ -	5%	\$ -
Project Costs - More than \$1 million	#####	-3%	\$ (705,448.17)
Labor availability- Slow Market	\$ -	-5%	\$ -
Labor availability - Tight Market	#####	7%	\$ 1,646,045.74
Labor - prevailing wage	#####	15%	\$ 3,527,240.86
Location - Incorporated Area	\$ -	2%	\$ -
Location - Unincorporated Area	#####	-2%	\$ (470,298.78)
Job site - Business Area	#####	-2%	\$ (470,298.78)
Job site - Residential Area	\$ -	5%	\$ -
Job site - Limited Staging	\$ -	5%	\$ -
Job site - Occupied by Owner	\$ -	7%	\$ -
Renovation - No Intrusive Tests	\$ -	10%	\$ -
Renovation - Intrusive Exploration	#####	-3%	\$ (705,448.17)
Project Fees - Simple Project	#####	-1%	\$ (235,149.39)
Project Fees - Complex Project	\$ -	5%	\$ -
NYS Building Code Transition - simple project	#####	5%	\$ 1,175,746.95
NYS Building Code Transition - complex project	\$ -	7%	\$ -
FACTORS, subtotal			\$ 3,762,390.25

Design Contingency	7.5% of subtotals	\$ 2,045,799.70
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Subtotal, Construction+Fees+Factors+Contingency	\$ 29,323,129.03
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Escalation	midpoint construction	1.0	\$ 1,172,925.16
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TOTAL PROJECT ESTIMATE=	\$ 30,496,054.20
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