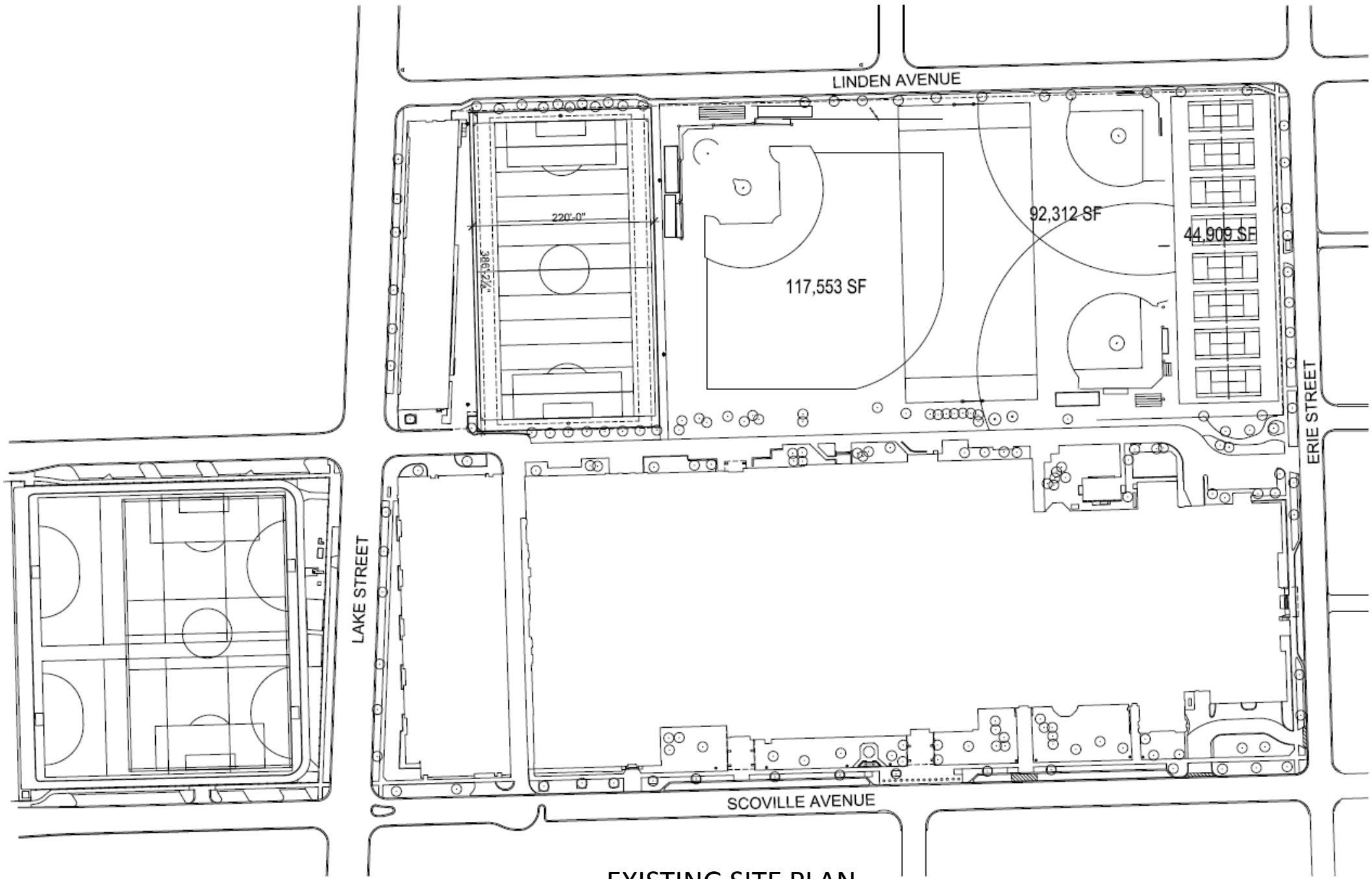
Oak Park River Forest High School

Swimming Pool Options 5A and 5B

May 17, 2016

Option 5A

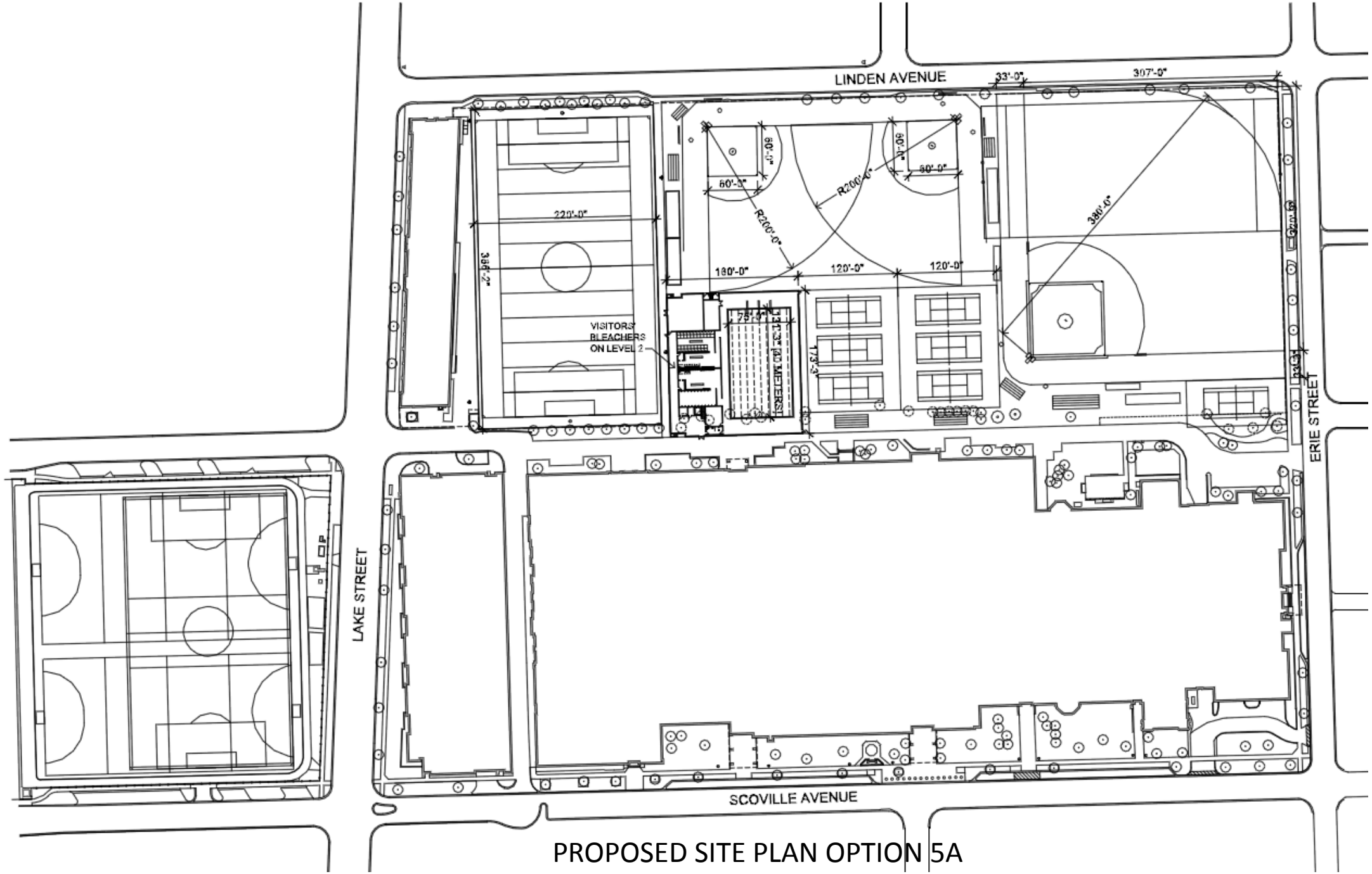
New sports fields and tennis courts



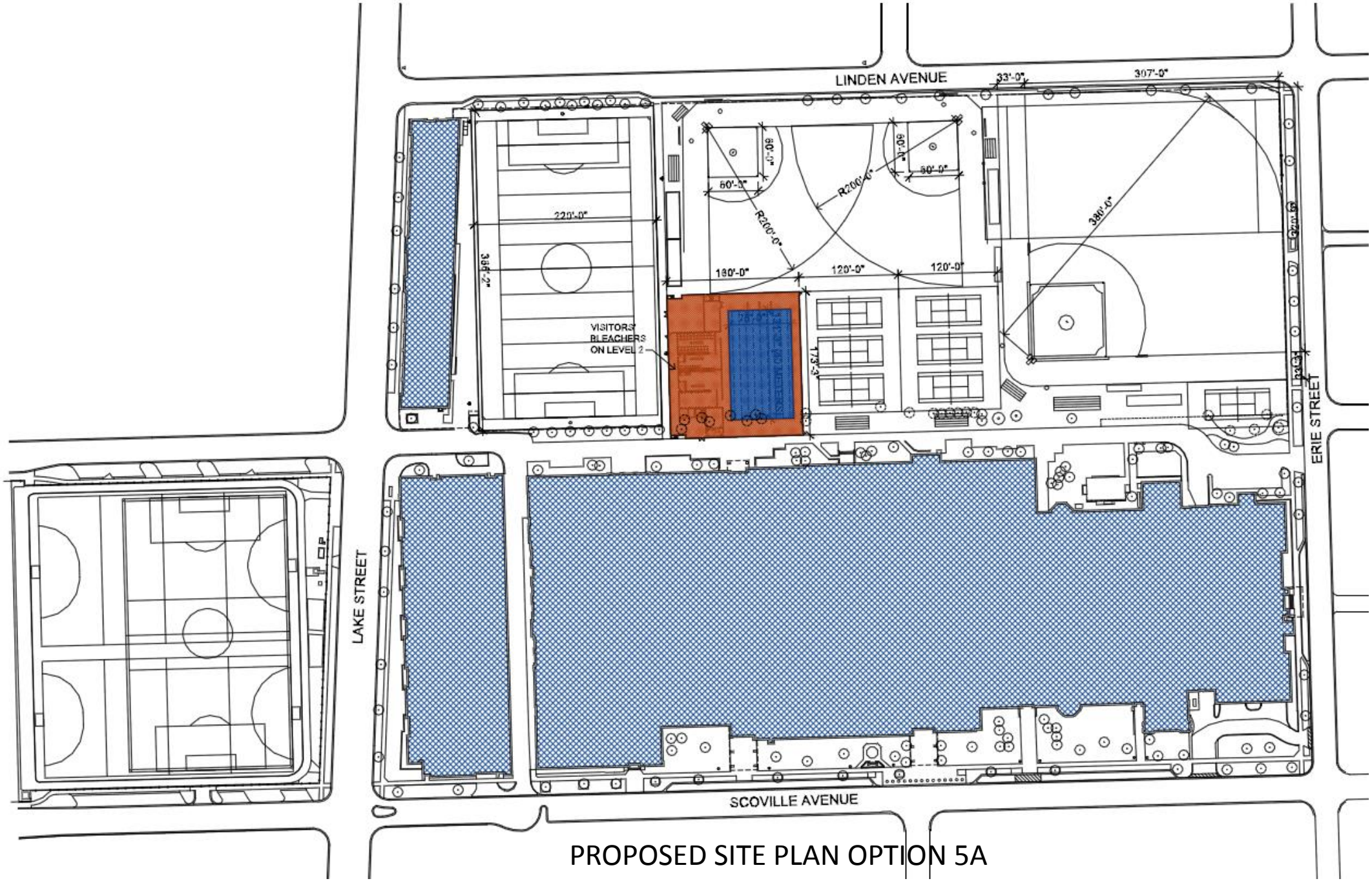
EXISTING SITE PLAN


31

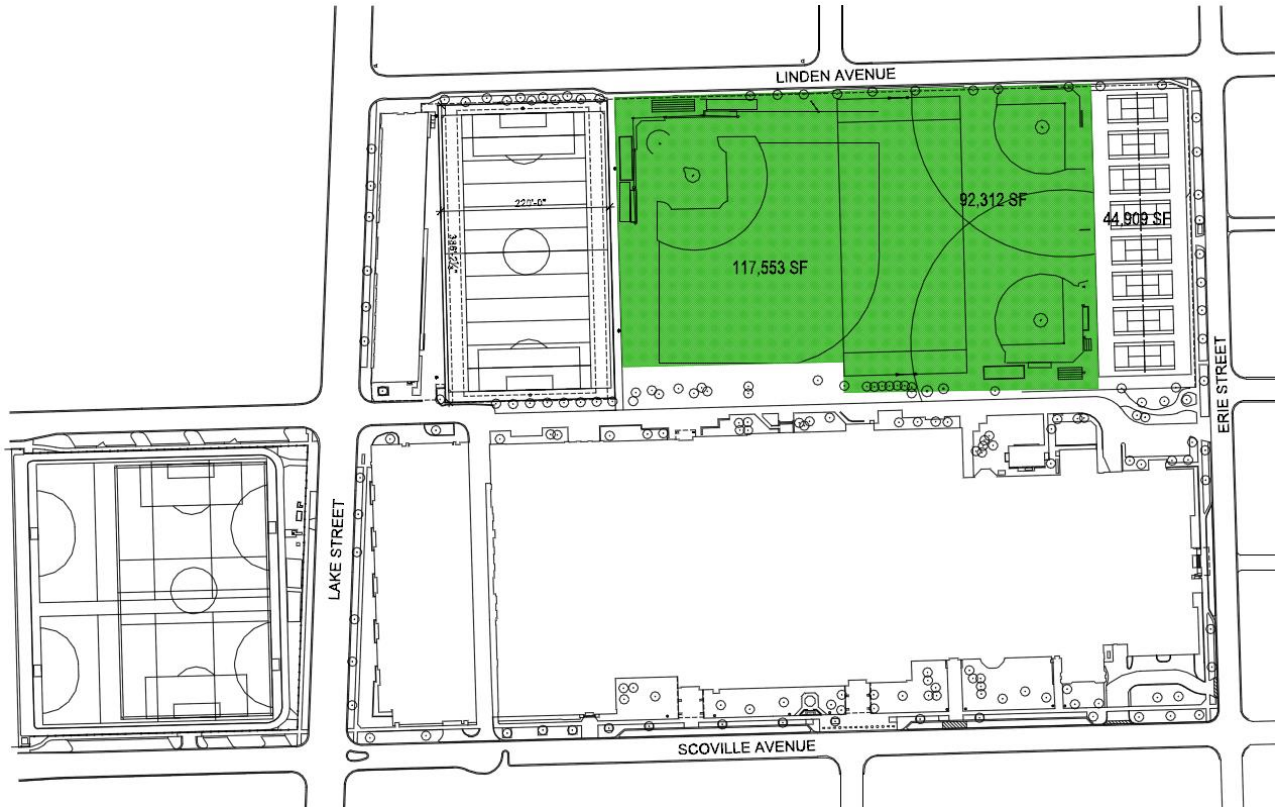

SERVICE
800-90P-JOHN



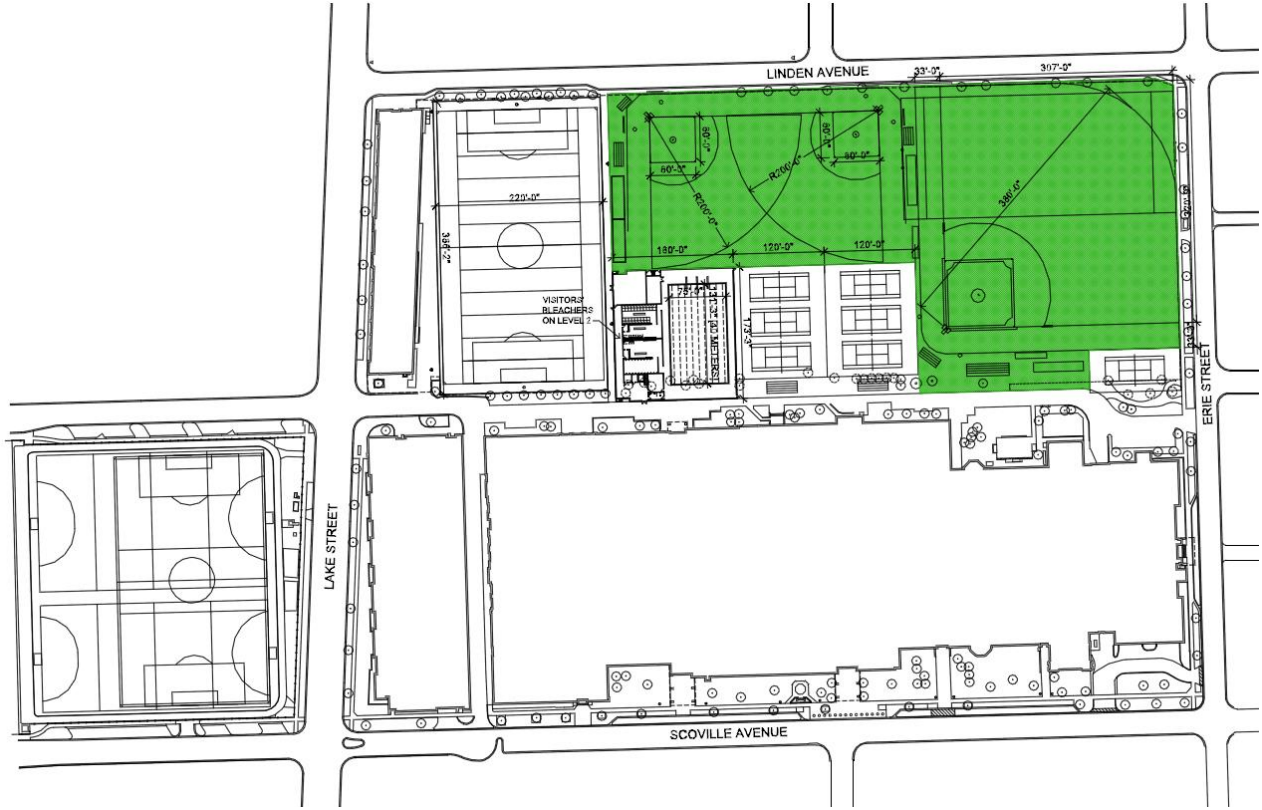
PROPOSED SITE PLAN OPTION 5A



PROPOSED SITE PLAN OPTION 5A

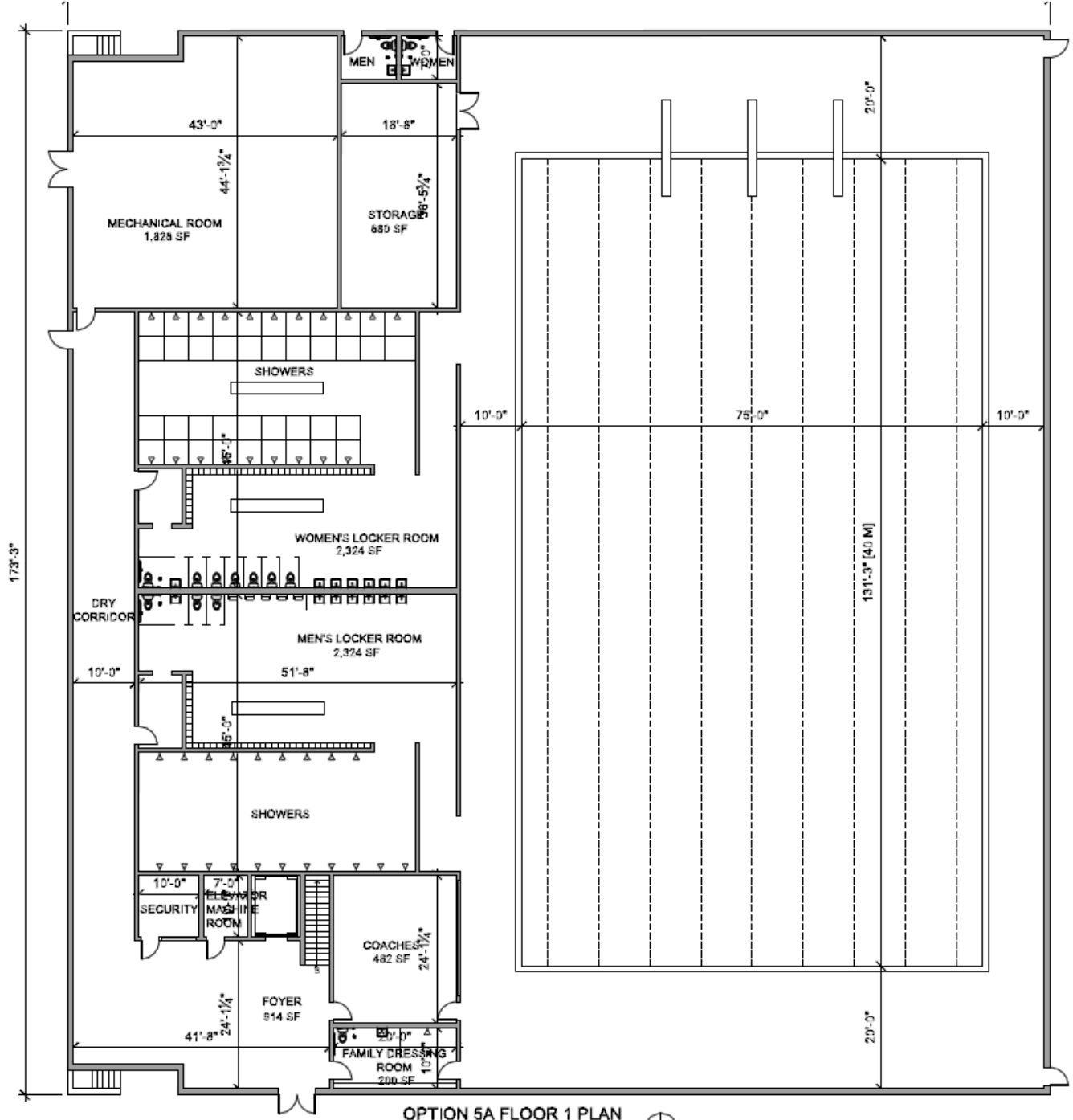


EXISTING GREEN SPACE
231,433 SF



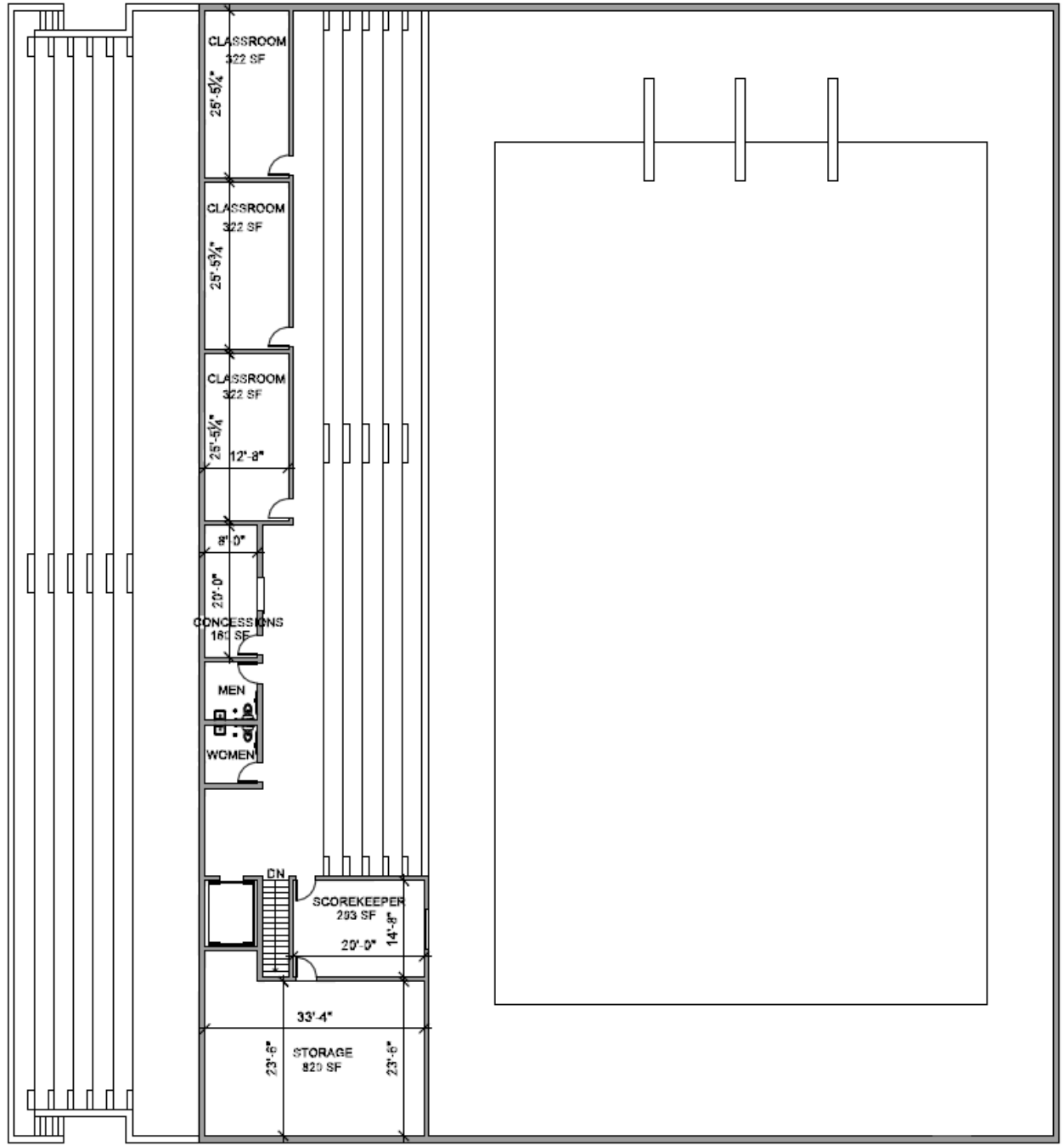
PROPOSED GREEN SPACE
227,914 SF

GREEN SPACE COMPARISON



OPTION 5A FLOOR 1 PLAN

SCALE: 1/8" = 1'-0"



OPTION 5A FLOOR 2 PLAN

SCALE: 1/8" = 1'-0"

OPRF Swimming Pool
Project Description
May 17, 2016

1. Selective demolition:
    a. Remove sod on baseball and softball fields
    b. Remove organic topsoil and stockpile for reuse
    c. Remove fencing, backstops and accessory structures on baseball and softball fields
    d. Demolish tennis court surfacing, subgrade, fencing, nets and posts
    e. Remove and de-stump 31 trees

2. Free-standing swimming pool building
    a. Building substructure: concrete spread footings/foundations
    b. Building superstructure: steel frame
    c. Swimming pool construction: concrete with ceramic tile finish
    d. Exterior walls: Brick and concrete masonry unit cavity wall, insulated
    e. Windows: Insulating glass in aluminum frames
    f. Roof: Painted exposed steel truss with insulated deck and standing seam copper roofing
    g. Skylights: Tempered insulating glass in aluminum frames
    h. Exterior bleachers: fiberglass seats on concrete risers
    i. Interior partitions: concrete masonry units, painted
    j. Interior doors: wood doors with hollow metal frames
    k. Floors:
        i. Pool deck: concrete, hardened and sealed
        ii. Interior bleachers: fiberglass seats on concrete risers
        iii. Entry foyer and dry corridor: terrazzo
        iv. Locker, shower rooms, wet corridor and toilet rooms: ceramic tile
        v. Offices, scorekeeper and classrooms: carpet
        vi. Concessions: vinyl tile
        vii. Mechanical and storage rooms: concrete, hardened and sealed
    l. Stairs: terrazzo
    m. Elevator: vinyl tile flooring with stainless steel walls and ceiling
    n. HVAC:
        i. Ground source heat pump heating and cooling
        ii. Exhaust fans in pool area through walls
    o. Acoustical treatment in pool area
        i. Walls: sound absorbing concrete masonry units
        ii. Ceiling: acoustical roof deck
    p. Interior lighting: LED with light harvesting feature
    q. Exterior lighting: LED floodlights
    r. Public address system in pool area and interior and exterior bleachers
    s. A/V system
    t. Security system
    u. Fire alarm system
    v. Fire sprinkler system

3. Sports fields
    a. Baseball:
        i. Natural grass outfield
        ii. Metal fencing enclosure, two sides
        iii. Foul tip high mesh netting
        iv. Movable fiberglass outfield barriers
        v. Fiberglass seat on aluminum frames for dugouts
        vi. Permanent fiberglass bleachers on aluminum frames
        vii. Front lighted scoreboard
    b. Softball
        i. Natural grass outfield
        ii. Fiberglass seat on aluminum frames for dugouts
        iii. Permanent fiberglass bleachers on aluminum frames
        iv. Front lighted scoreboard

4. Tennis courts
    a. Resilient asphalt surfacing
    b. Gravel subgrade
    c. Mesh nets
    d. Court striping

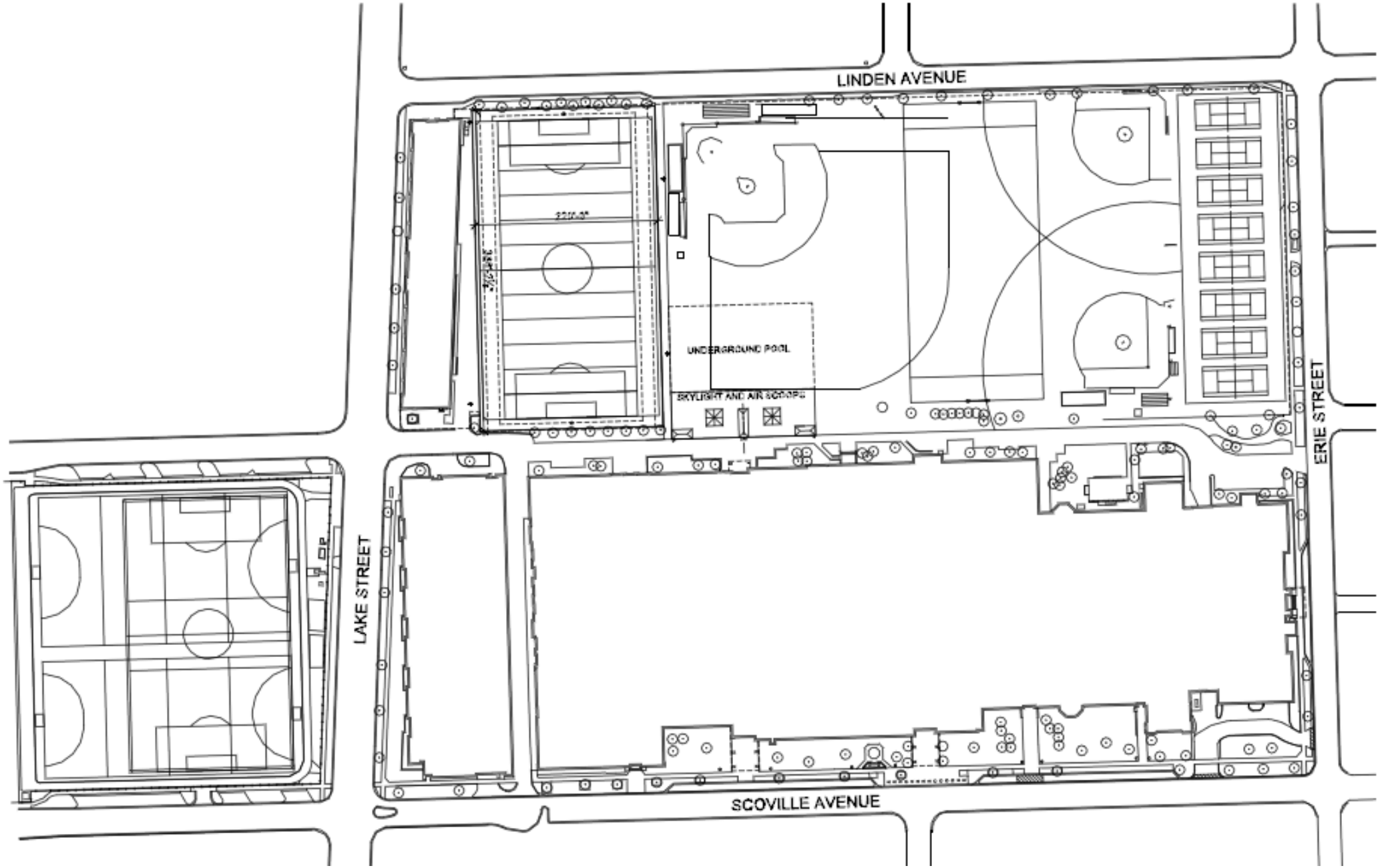
5. Landscape
    a. Finish grade with topsoil in turf areas
    b. Natural grass turf around pool building and accessory structures
    c. Plant 31 deciduous trees
    d. Vegetated roof

OPRF Swimming Pool
Cost Estimate Option 5A
May 17, 2016

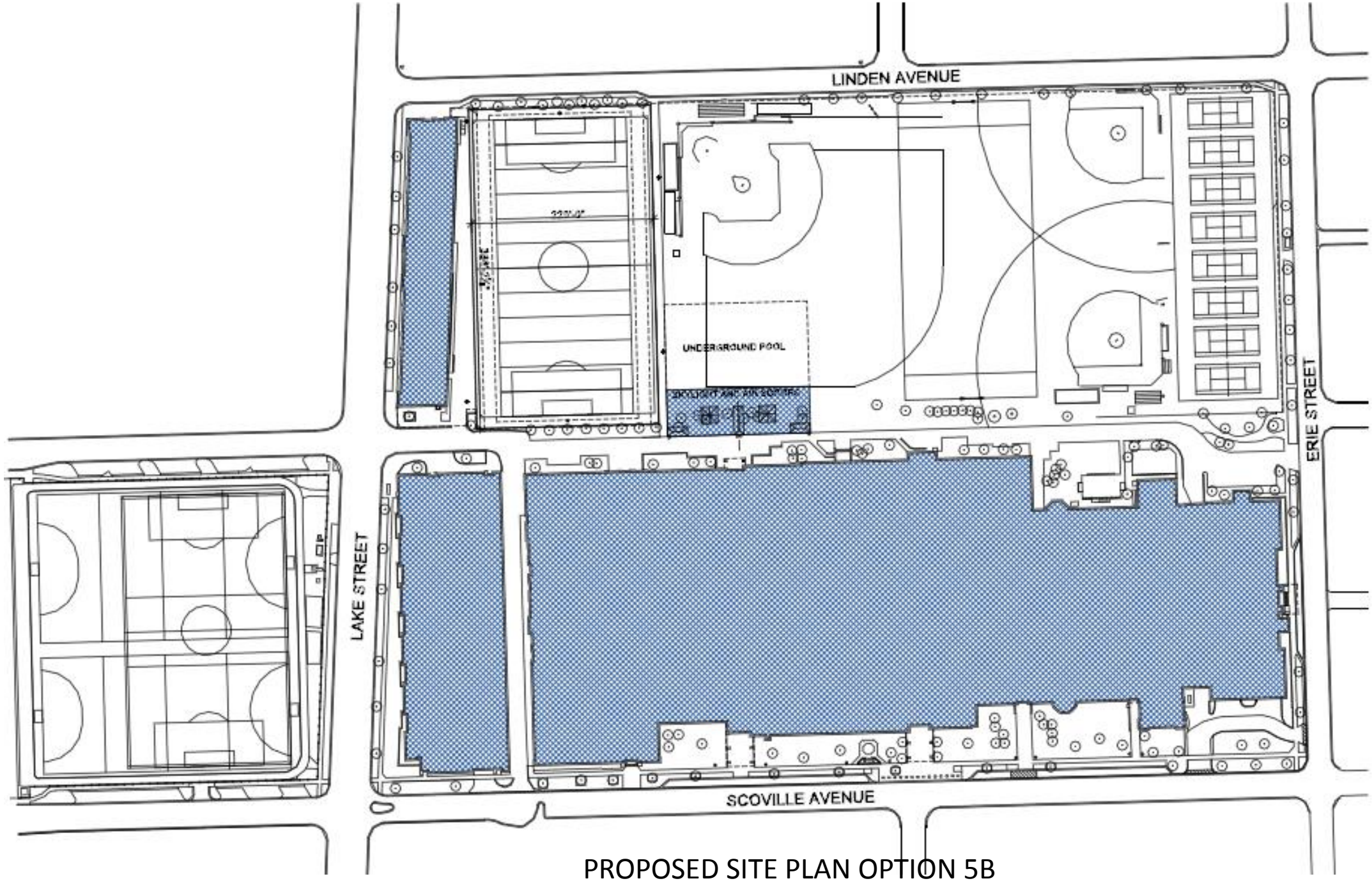
Item	Description	Number	Unit	Cost per unit	Total
	BUILDING				
1	Pool building and pool first floor	27,720	SF	$450.00	$12,474,000.00
2	Pool building second floor and bleachers	5,648	SF	$450.00	$2,541,600.00
3	Sheet piling two sides	13,250	SF	$43.50	$576,375.00
4	Excavation for building & loading onto trucks for hauling	5,000	CY	$9.89	$49,450.00
5	Hauling excavated soil	5,000	CY	$8.20	$41,000.00
	Building subtotal				$15,682,425.00
	Design contingency @ 10%				$1,568,242.50
	Total Building cost				**$17,250,667.50**
	SITE				
6	Fencing removal	1,500	LF	$4.22	$6,330.00
7	Selective tree removal	31	EA	$263.00	$8,153.00
8	Stump removal	31	EA	$60.00	$1,860.00
9	Baseball field surface grading	13,333	SY	$6.40	$85,331.20
10	Baseball field sodding	120,000	SF	$4.00	$480,000.00
11	Baseball field bleachers	600	SEATS	$100.00	$60,000.00
12	Baseball field scoreboard	1	EA	$20,000.00	$20,000.00
13	Baseball field high fence	550	LF	$40.00	$22,000.00
14	Baseball backstop	1	EA	$9,350.00	$9,350.00
15	Softball fields surface grading	10,555	SY	$6.40	$67,552.00
16	Softball fields sodding	95,000	SF	$4.00	$380,000.00
17	Softball field bleachers	300	SEATS	$100.00	$30,000.00
18	Softball field scoreboard	1	EA	$15,000.00	$15,000.00
19	Tennis court pavement removal (assume 24" thick with subsurface)	50,000	SF	$2.22	$111,000.00
20	Topsoil fill after pavement removal - borrow from building and new tennis court excavation, 24" total thickness	3,704	CY	$1.89	$7,000.56
21	Compact backfill in four 6" lifts	3,704	CY	$3.41	$12,630.64
22	Excavation for new tennis courts, 12" deep	1,852	CY	$7.35	$13,612.20
23	Aggregate base course under new tennis courts, 6" deep	5,556	SY	$7.50	$41,670.00
24	Tennis court surfacing	4,957	SY	$10.30	$51,057.10
25	Tennis court fencing	1,032	LF	$41.50	$42,828.00
26	Tennis court gates	5	EA	$530.00	$2,650.00
27	New trees	31	EA	$600.00	$18,600.00
	Total site costs				**$1,486,624.70**
	Sub-total for building and site				$18,737,292.20
	General conditions @ 10%				$1,873,729.22
	GC OH & P @ 15%				$2,810,593.83
	Total Building and Site				**$23,421,615.25**

Option 5B

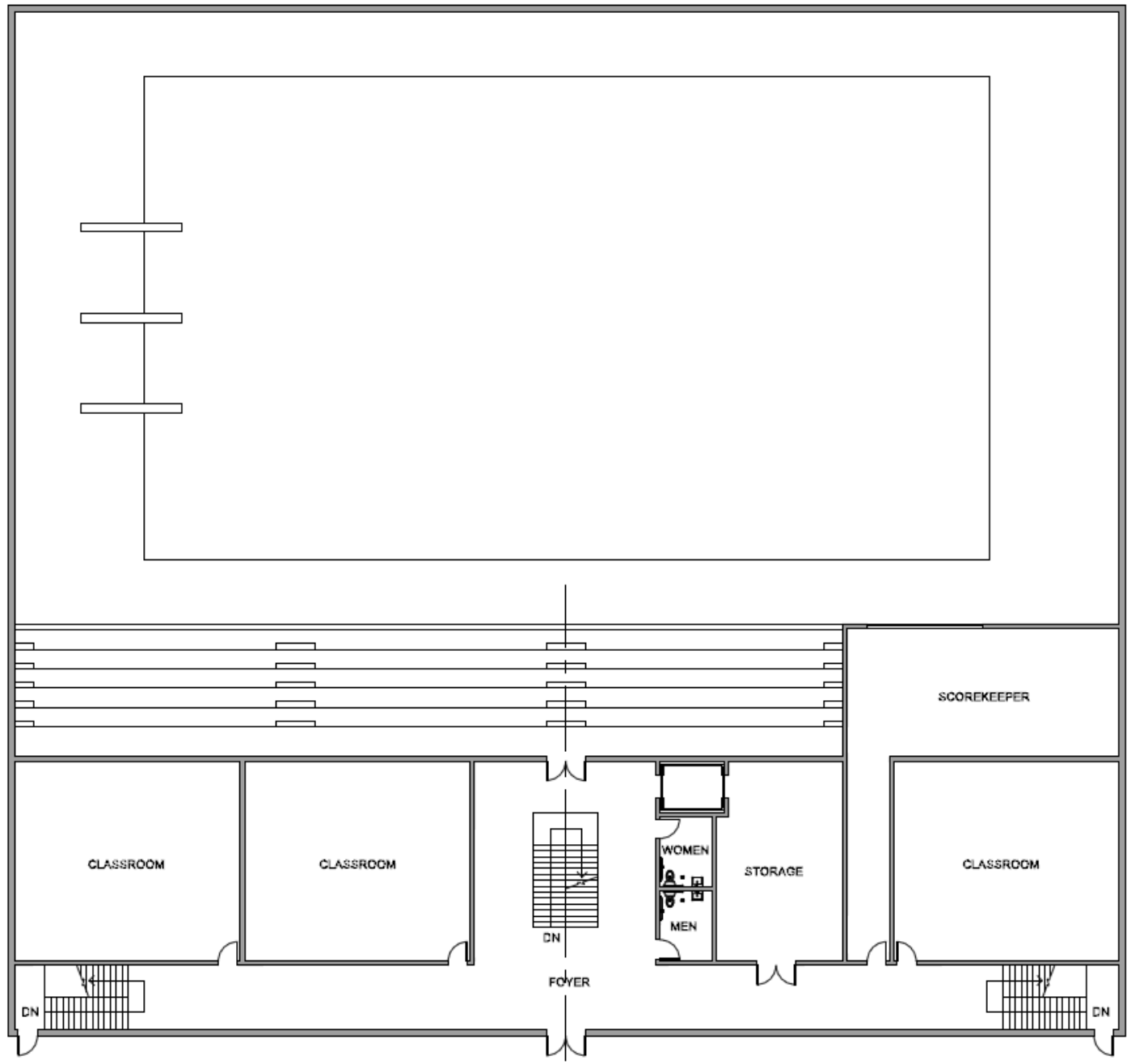
Existing sports fields and tennis courts



PROPOSED SITE PLAN OPTION 5B



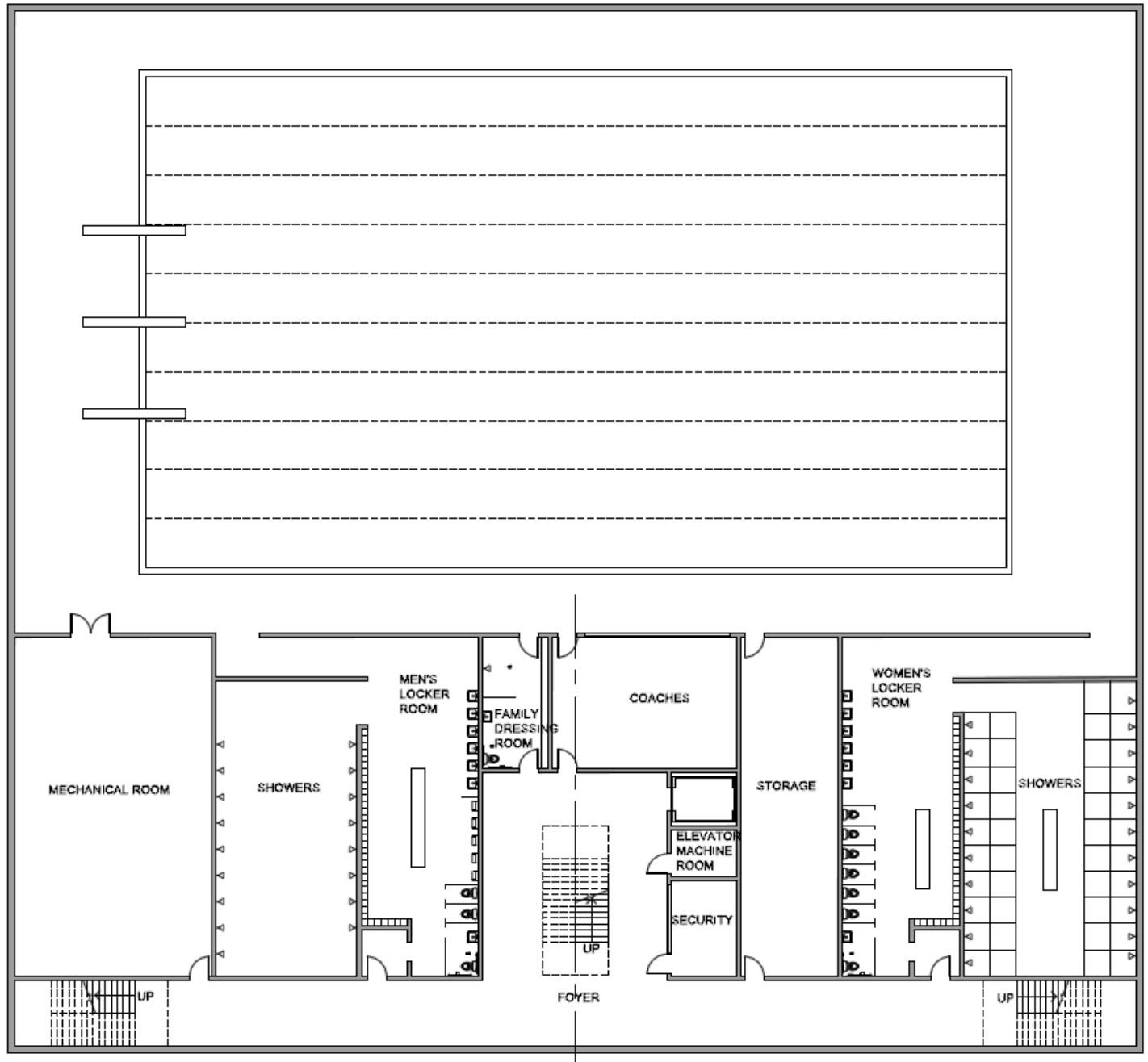
PROPOSED SITE PLAN OPTION 5B



OPTION 5B UPPER LEVEL PLAN

SCALE: 1/8" = 1'-0"

N



OPTION 5B LOWER LEVEL PLAN

SCALE: 1/8" = 1'-0"

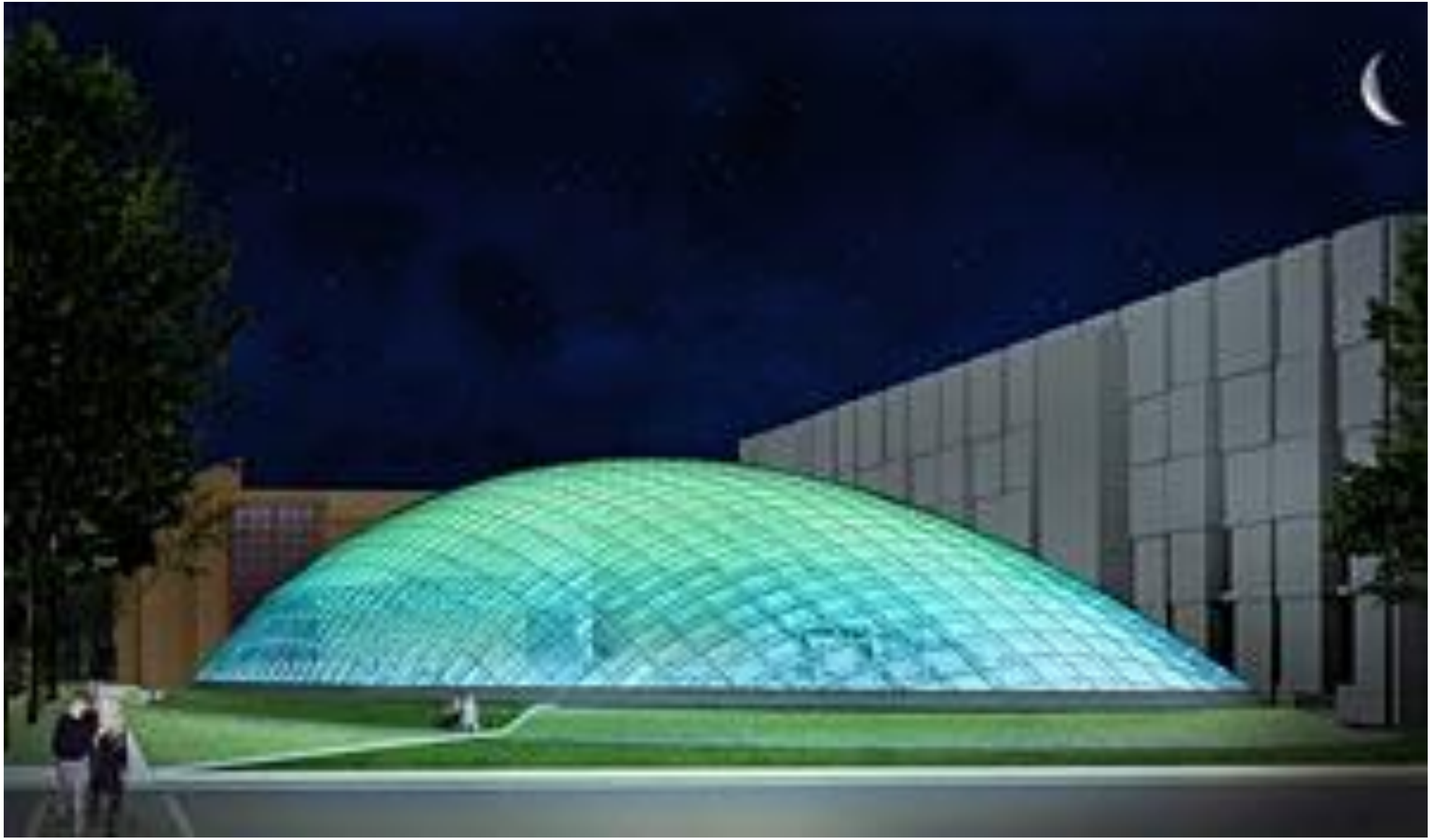
N

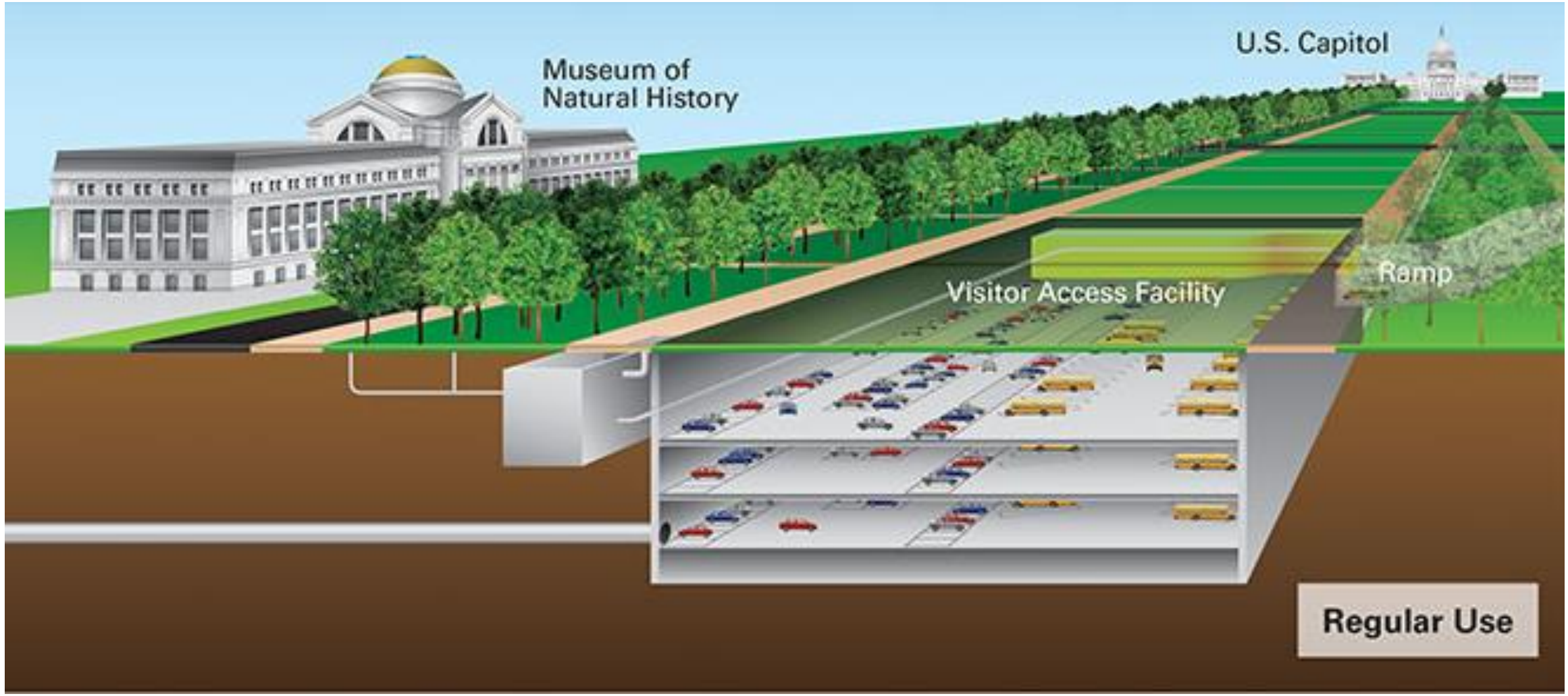
OPRF Swimming Pool
Cost Estimate Option 5B
May 17, 2016

Item	Description	Number	Unit	Cost per unit	Total
	BUILDING				
1	Pool building lower level and pool	27,720	SF	$450.00	$12,474,000.00
2	Pool building upper level	5,648	SF	$450.00	$2,541,600.00
3	Sheet piling four sides	19,995	SF	$43.50	$869,782.50
4	Excavation for building & loading onto trucks for hauling	35,933	CY	$9.89	$355,380.67
5	Hauling excavated soil	35,933	CY	$8.20	$294,653.33
6	Waterproofing slab and foundation walls	50,838	SF	$2.46	$125,060.25
7	Deduct for omitting exterior brick veneer on underground portion	15,489	SF	$19.00	-$294,285.78
8	Vegetated roof, 12" deep	18,572	SF	$4.79	$88,961.80
	Building subtotal				$16,455,152.77
	Design contingency @ 10%				$1,645,515.28
	Total Building cost				**$18,100,668.05**
	SITE				
9	Selective tree removal	22	EA	$263.00	$5,786.00
10	Stump removal	22	EA	$60.00	$1,320.00
11	New trees	22	EA	$600.00	$13,200.00
	Total Site cost				$20,306.00
	Subtotal				$18,120,974.05
	General conditions @ 10%				$1,812,097.40
	GC OH & P @ 15%				$2,718,146.11
	Total Building and Site				**$22,651,217.56**

EXAMPLE OF VEGETATED ROOF – CALIFORNIA ACADEMY OF SCIENCE

EXAMPLE OF UNDERGROUND BUILDING – REGENSTEIN LIBRARY AT THE UNIVERSITY OF CHICAGO





WASHINGTON, D.C. UNDERGROUND VISITORS' CENTER

PROPOSED HOTEL IN SURRY, ENGLAND UNDER A GOLF COURSE