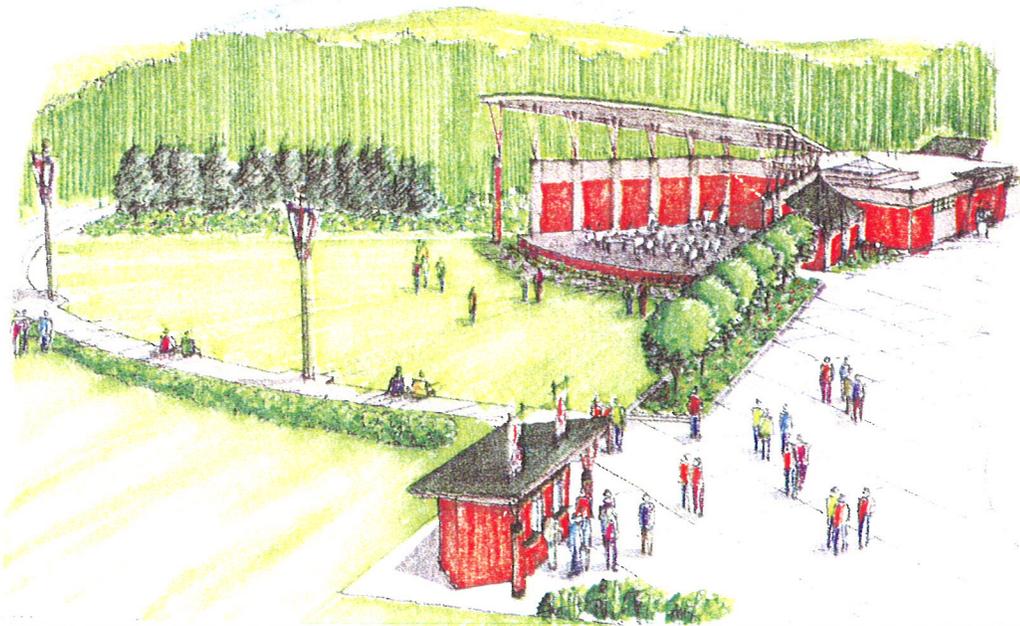




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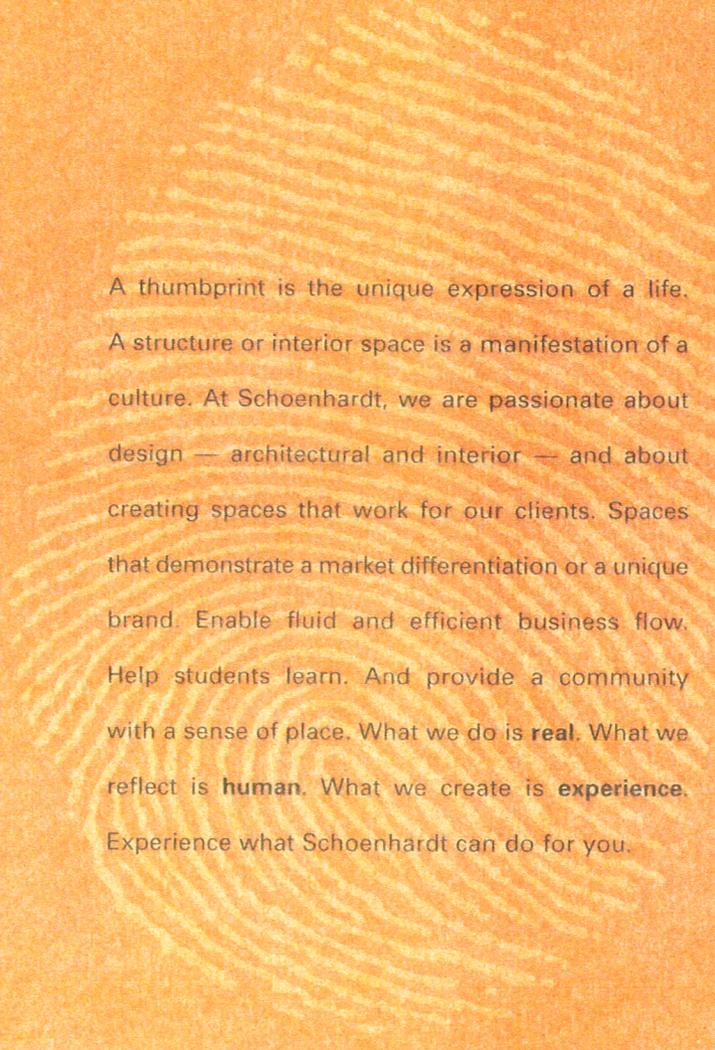
S i m s b u r y M e a d o w s

B a n d s h e l l S t u d y



13 March 2003

Real. Human. Experience.



A thumbprint is the unique expression of a life.
A structure or interior space is a manifestation of a culture. At Schoenhardt, we are passionate about design — architectural and interior — and about creating spaces that work for our clients. Spaces that demonstrate a market differentiation or a unique brand. Enable fluid and efficient business flow. Help students learn. And provide a community with a sense of place. What we do is **real**. What we reflect is **human**. What we create is **experience**. Experience what Schoenhardt can do for you.



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Schoenhardt Architects and our consultants have conducted a schematic study for a community band shell for the Town of Simsbury. The consultant team consists of:

Ferraro/Hixon Landscape Architect's
CES Consulting Engineers (mechanical, electrical and plumbing)
Newfield Construction (cost estimating)
Robert Lorelli (theater consultant)
Acentech (audio and acoustics consultant)

The purpose of this study is to comprehend and identify major project components, graphically convey them and establish a preliminary estimate of probable costs. Establishing the program was conducted through a series of meetings and conversations with the Hartford Symphony, Talcott Mountain Festival, Simsbury's Director of Community Services; Richard Sawitzke and presentations to the Simsbury Design Review Board. Identified program requirements were assessed on a needs basis. Final program requirements will be compiled through presentations and meetings with other groups and individuals in future project phases. The established site is adjacent to the Iron Horse Blvd. Soccer fields.

The major program requirements established are:

- Covered stage accommodating the Hartford Symphony.
- Stage flexibility adaptable from large venues to small performances.
- Hartford Symphony V.I.P. seating for eight hundred people (100 tables at 60" diameter).
- Hartford Symphony Gated V.I.P. access.
- Hartford Symphony V.I.P. toilet facilities.
- Field seating.
- Pedestrian control entrance points.
- Site parking for 300 vehicles.
- Site and stage lighting capabilities.
- Site and stage sound system capabilities.
- Symphony backstage setup areas.
- Public toilets.

SIMSBURY MEADOWS BANDSHELL
3/13/03

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- Piano vault.
- Green room.
- Performer dressing rooms.
- Conductor and guest performer dressing rooms with toilets and showers.
- Office space.
- Storage spaces.
- Loading dock for two straight body trucks.
- Ticket sales office.
- Site and building barrier free accessibility.

As a general overview the key band shell components are the stage, sound shell, roof, lighting and sound system infrastructure and site development. The stage will be a concrete slab on grade. Performances requiring specialty flooring will rent a portable stage floor applicable to the needs. The lighting and sound system infrastructure will contain a backbone designed for flexibility accommodating a wide variety of performance types. The lighting system will contain a minimum quantity of fixed stage lights or small performances and general illumination. Wiring, power points and fixed rigging will be in place allowing for easy installation of rented equipment. The audio systems will have a small speaker cluster at the roofs rim above the stage with microphone connection points spotted around the stage. The sound system will accommodate the first one hundred feet from the stage. Audio needs exceeding those provided will be rented as needed and can be supported off the wiring backbone. Site development, at a minimum, would require construction of the lowered V.I.P. seating area, sidewalks, retaining walls and general site lighting. Other important site development items for a more permanently developed facility are paved parking and a secondary access drive and field parking running parallel to Iron Horse Blvd., a pedestrian plaza, ticket booth/visitors center, supplemental site lighting and landscaping.

The backstage facilities are a major program requirement for medium to large-scale performances. Toilets dressing rooms, waiting/set up areas, and storage space are key components to attract and accommodate those productions. Additionally attached to the back stage are public restrooms. The restrooms would not only be used for the band shell but could be used year round to accommodate adjacent soccer fields, boundless playground, as part of a town trailhead location for rails to trails and a potential visitors center.

The electrical feeders on Iron Horse Blvd. have sufficient capacity to provide power needs. The feeder will be tapped and if necessary a transformer will be inconspicuously placed next to the band shell. The wastewater will utilize the sewage line under Iron Horse Blvd. With the facility slightly elevated it is our anticipation the lines can be gravity fed. The HVAC systems will consist of roof top propane fired heating/cooling units. All backstage areas will have heating and cooling capabilities.

SIMSBURY MEADOWS BANDSHELL
3/13/03

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The band shell is located facing north on the south side the Iron Horse Blvd. soccer fields and slightly offset from the field center line. The north facing stage minimizes the suns stage exposure while maximizing the viewing and seating capacity. The offset accommodates the adjacent boundless playground. The stage is set back one hundred feet from the soccer field. This allows for simultaneous use of both band shell and soccer fields. The existing barn structure requires relocation to accommodate the open space. Conceptually developed as a major site component is the pedestrian plaza. We envision a major arrival point and congregating space lined with flags, banners, shade trees and seating. Not only will it serve the band shell but also a major component for pulling the adjacent facilities together, i.e. soccer fields, trailhead and boundless playground. We feel this focal point will lend itself to the presently embraced "town center" concept as an added attraction to the central business district.

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SIMSBURY MEADOWS BAND SHELL SCHEMATIC COST ESTIMATE

| Cost Item | QTY SHELL | QTY BACK | UNIT | UNIT COST | BAND SHELL | BACK STAGE |
|--------------------------------------------------------------|-----------|----------|-------|--------------|------------|------------|
| <u>DIVISION 1 : General Requirements</u> | | | | | | |
| GENERAL REQUIREMENTS | 4 | 3 | MON | \$ 18,000.00 | \$ 50,000 | \$ 76,000 |
| TESTING & Q.C. | 1 | 1 | ALLOW | \$ 3,500.00 | \$ 3,500 | \$ 3,500 |
| | | | | | | \$ - |
| | | | | | | \$ - |
| | | | | | | \$ - |
| <u>DIVISION 2 : Site Construction</u> | | | | | | |
| DEMOLITION | 1820 | | SF | \$ - | \$ - | \$ - |
| SITWORK | 1 | | ALLOW | \$ - | \$ 139,558 | \$ 411,571 |
| RELOCATE BARN | 1 | | ALLOW | | | \$ 150,000 |
| SECONDARY ACCESS & GRASS PARKING | | | ALLOW | | | \$ 120,000 |
| | | | | | | \$ - |
| <u>DIVISION 3 : Concrete</u> | | | | | | |
| CONCRETE B SHELL | 3325 | | SF | \$ 15.50 | \$ 51,538 | \$ - |
| CONCRETE | | 3375 | SF | \$ 15.50 | \$ - | \$ 52,313 |
| BARN FOUNDATION | 1 | | ALLOW | | | \$ 50,000 |
| | | | | | | \$ - |
| <u>DIVISION 4 : Masonry</u> | | | | | | |
| EXTERIOR WALLS | 0 | | SF | \$ 18.00 | \$ - | \$ - |
| | | | | | | \$ - |
| <u>DIVISION 5 : Metals</u> | | | | | | |
| STEEL STRUCTURE B SHELL | 4075 | | SF | \$ 33.00 | \$ 134,475 | \$ - |
| MISCELLANEOUS METALS | | | ABOVE | | \$ - | \$ - |
| STEEL - BACK HOUSE AREA | | 3375 | SF | \$ 11.00 | | \$ 37,125 |
| | | | | | | \$ - |
| | | | | | | \$ - |
| <u>DIVISION 6 : Wood & Plastics</u> | | | | | | |
| ROOF BLOCKING | 3325 | 3375 | SF | \$ 0.50 | \$ 1,663 | \$ 1,688 |
| BLOCKING | 3325 | 3375 | SF | \$ 0.20 | \$ 665 | \$ 675 |
| SOUND PANELS-WOOD 9X10X15 | 1350 | | SF | \$ 30.00 | \$ 40,500 | \$ - |
| WALL PANELS-WOOD 106X9 | 954 | | SF | \$ 30.00 | \$ 28,620 | \$ - |
| CEDAR SIDING | 3325 | 4040 | SF | \$ 9.00 | \$ 29,925 | \$ 36,360 |
| BATHROOM VANITY SOLID | | 30 | LF | \$ 200.00 | \$ - | \$ 6,000 |
| DRESSING ROOM VANITY PLAM | | 44 | LF | \$ 125.00 | \$ - | \$ 5,500 |
| KITCHEN COUNTER PLAM | | 15 | LF | \$ 125.00 | \$ - | \$ 1,875 |
| | | | | | | \$ - |
| <u>DIVISION 7 : Thermal & Moisture protection</u> | | | | | | |
| SHINGLES | 200 | 500 | SF | \$ 3.00 | \$ 600 | \$ 1,500 |
| EPDM | | 4500 | SF | \$ 4.00 | \$ - | \$ 18,000 |
| MODIFIED BITUMEN | 3000 | | SF | \$ 5.00 | \$ 15,000 | \$ - |
| CAULKING | 3325 | 3375 | SF | \$ 0.30 | \$ 998 | \$ 1,013 |
| | | | | | | \$ - |
| <u>DIVISION 8 : Doors & Windows</u> | | | | | | |
| WINDOWS | | 20 | EA | \$ 750.00 | \$ - | \$ 15,000 |
| ALUMINUM DOORS | | 7 | PR | \$ 2,500.00 | \$ - | \$ 17,500 |
| EXTERIOR DOORS | 3 | 3 | EA | \$ 1,500.00 | \$ 4,500 | \$ 4,500 |
| INTERIOR DOORS | | 13 | EA | \$ 900.00 | \$ - | \$ 11,700 |

| | | | | | |
|--------------|---|----|--------------|------|-----------|
| CLOSET DOORS | 5 | PR | \$ 950.00 | \$ - | \$ 4,750 |
| SKYLIGHT | 1 | LS | \$ 35,000.00 | \$ - | \$ 35,000 |

DIVISION 9 : Finishes

| | | | | | |
|---------------------|------|------|--------------|---------|-----------|
| DRYWALL | 1 | LS | \$ 99,000.00 | \$ - | \$ 99,000 |
| DRYWALL SOFFIT/MISC | 3375 | SF | \$ 1.00 | \$ - | \$ 3,375 |
| ACOUSTICAL CEILINGS | 1125 | 3375 | SF | \$ 3.00 | \$ 3,375 |
| CANOPY CEILING | 200 | 500 | SF | \$ 6.00 | \$ 1,200 |
| CERAMIC | | 1200 | SF | \$ 8.00 | \$ - |
| RESILIENT FLOOR | | 3620 | SF | \$ 2.00 | \$ - |
| STAIN CONCRETE | 2200 | | SF | \$ 1.00 | \$ 2,200 |
| PAINT | 3325 | 3375 | SF | \$ 2.75 | \$ 9,144 |
| PAINT SIDING | 3325 | 4040 | SF | \$ 1.00 | \$ 3,325 |

DIVISION 10 : Specialties

| | | | | | |
|--------------------|---|----|-------------|-------------|----------|
| TOILET PARTITIONS | 9 | EA | \$ 900.00 | \$ - | \$ 8,100 |
| TOILET ACCESSORIES | 1 | LS | \$ 4,500.00 | \$ - | \$ 4,500 |
| FIRE EXTINGUISHERS | 1 | 1 | LS | \$ 750.00 | \$ 750 |
| SIGNAGE | 1 | 1 | LS | \$ 1,000.00 | \$ 1,000 |

DIVISION 11 : Equipment

| | | | | | |
|------------------|---|-------|------|-----------|------------|
| THEATER LIGHTING | 0 | ALLOW | \$ - | \$ 15,000 | \$ 89,000 |
| SOUND SYSTEM | 0 | ALLOW | \$ - | \$ 25,000 | \$ 220,000 |

DIVISION 12 : Furnishings

| | | | | | |
|------|---|----|-------------|------|----------|
| MATS | 1 | LS | \$ 1,000.00 | \$ - | \$ 1,000 |
|------|---|----|-------------|------|----------|

DIVISION 15 : Mechanical

| | | | | | |
|-----------------|------|------|----|-------------|------|
| HVAC | 1125 | 3375 | SF | \$ 15.00 | \$ - |
| PLUMBING | 2 | 33 | EA | \$ 1,200.00 | \$ - |
| FIRE PROTECTION | 0 | 0 | SF | \$ 3.00 | \$ - |

DIVISION 16 : Electrical

| | | | | | |
|------------|------|------|----|----------|-----------|
| ELECTRICAL | 3325 | 3375 | SF | \$ 10.50 | \$ 14,913 |
|------------|------|------|----|----------|-----------|

\$ 577,447 \$ 1,706,268

CM FEE @ 5.5% 31,760 93,845

TOTAL \$ 609,207 \$ 1,800,113

ESTIMATE CONTINGENCY 3% \$ 18,276 54,003

CONSTRUCTION CONTINGENCY 5.5% \$ 33,506 99,006

TOTAL CONSTRUCTION COSTS \$ 660,989 \$ 1,953,122

COMBINED TOTAL \$ 2,614,112

ESTIMATE NOTES

*Theater Lighting - complete system: \$69,000

*Sound System - complete system: \$200,000

* These items may be deducted if only a backbone system is installed.

BAND SHELL SITE COST BACKUP WORKSHEET

NOTE: This is a preliminary cost estimate and is subject to change. Costs shown here do not reflect final construction costs.

PHASE I - BAND SHELL

| EARTHWORK | | | | |
|----------------------------------|-------------|-------------------|-----------------|------------------|
| | UNIT | UNIT PRICE | QUANTITY | TOTAL |
| Earthwork (VIP Area) | CY | \$13.00 | 1037 | \$13,481 |
| PAVEMENT | | | | |
| | UNIT | UNIT PRICE | QUANTITY | TOTAL |
| Concrete Walk | SF | \$6.00 | 6820 | \$40,920 |
| Bituminous Paving (Vehicular) | SF | \$3.50 | 20300 | \$71,050 |
| Brick Plaza | SF | \$20.00 | 5998 | \$119,960 |
| CURBING | | | | |
| | UNIT | UNIT PRICE | QUANTITY | TOTAL |
| Concrete Curb (Cast-in-Place) | LF | \$17.00 | 900 | \$15,300 |
| SITE FURNISHINGS | | | | |
| | UNIT | UNIT PRICE | QUANTITY | TOTAL |
| Flagpole | EA | \$2,000.00 | 2 | \$4,000.00 |
| LAWN | | | | |
| | UNIT | UNIT PRICE | QUANTITY | TOTAL |
| Sod | SF | 0.25 | 21227 | \$5,307 |
| PLANTING | | | | |
| | UNIT | UNIT PRICE | QUANTITY | TOTAL |
| Shade Trees | EA | \$675.00 | 18 | \$12,150 |
| Shrubs | EA | \$90.00 | 90 | \$8,100 |
| S&E | | | | |
| | UNIT | UNIT PRICE | QUANTITY | TOTAL |
| Silt Fence | LF | \$2.00 | 570 | \$1,140 |
| Temporary Construction Fence | LF | \$2.00 | 1000 | \$2,000 |
| UTILITIES | | | | |
| | UNIT | UNIT PRICE | QUANTITY | TOTAL |
| Polyvinyl Chloride (PVC) Pipe | LF | \$30.00 | 400 | \$12,000 |
| Catch Basin | EA | \$2,000.00 | 5 | \$10,000 |
| WALL/STEPS | | | | |
| | UNIT | UNIT PRICE | QUANTITY | TOTAL |
| Steps | | Allow | | \$3,500 |
| Retaining wall (2'ht-brownstone) | SF | \$30 SF | 455 | \$13,650 |
| LIGHTING | | | | |
| | UNIT | UNIT PRICE | QUANTITY | TOTAL |
| Included in Electrical | | | | |
| IRRIGATION | | | | |
| | UNIT | UNIT PRICE | QUANTITY | TOTAL |
| VIP AREA | | Allow | | \$7,000 |
| TOTAL FOR PHASE 1 | | | | \$339,558 |

BACKSTAGE SITE COST BACKUP WORKSHEET

NOTE: This is a preliminary cost estimate and is subject to change. Costs shown here do not reflect final construction costs.

PHASE II - BACKSTAGE FACILITY

| EARTHWORK | | | | |
|-------------------------------|-------------|-------------------|-----------------|------------------|
| | UNIT | UNIT PRICE | QUANTITY | TOTAL |
| Earthwork | CY | Allow | | \$6,000 |
| PAVEMENT | | | | |
| | UNIT | UNIT PRICE | QUANTITY | TOTAL |
| Concrete Walk | SF | \$6.00 | 5397 | \$32,382 |
| Gravel Parking | TONS | \$18.00 | 1575 | \$28,350 |
| Stone Dust Walk | SF | \$2.50 | 1794 | \$4,485 |
| Brick Paving | SF | \$20.00 | 1319 | \$26,380 |
| CURBING | | | | |
| | UNIT | UNIT PRICE | QUANTITY | TOTAL |
| Concrete Curb (Cast-in-Place) | LF | \$17.00 | 2052 | \$34,884 |
| LAWN | | | | |
| | UNIT | UNIT PRICE | QUANTITY | TOTAL |
| Sod | SF | 0.25 | 5700 | \$1,425 |
| PLANTING | | | | |
| | UNIT | UNIT PRICE | QUANTITY | TOTAL |
| Flowering Trees | EA | \$495.00 | 7 | \$3,465 |
| Shade Trees | EA | \$675.00 | 28 | \$18,900 |
| Shrubs | EA | \$90.00 | 320 | \$28,800 |
| S&E | | | | |
| | UNIT | UNIT PRICE | QUANTITY | TOTAL |
| Silt Fence | LF | \$2.00 | 550 | \$1,100 |
| Temporary Construction Fence | LF | \$2.00 | 1200 | \$2,400 |
| UTILITIES | | | | |
| | UNIT | UNIT PRICE | QUANTITY | TOTAL |
| Polyvinyl Chloride (PVC) Pipe | LF | \$30.00 | 500 | \$15,000 |
| Catch Basin | EA | \$2,000.00 | 4 | \$8,000 |
| LIGHTING | | | | |
| | UNIT | UNIT PRICE | QUANTITY | TOTAL |
| Included With Electrical | | | | |
| TOTAL FOR PHASE II | | | | \$211,571 |

SIMSBURY MEADOWS BANDSHELL-Preliminary Cost estimate

NOTE: This is a preliminary cost estimate and is subject to change. Costs shown here do not reflect final construction costs or design fees.

PHASE III - SECONDARY ACCESS ROAD

| EARTHWORK | UNIT | UNIT PRICE | QUANTITY | TOTAL |
|----------------------------------------|-------------|-------------------|-----------------|--------------------------|
| Grading | | Allow | | \$6,000 |
| Clearing and Grubbing | | Allow | | \$5,000 |
| Wetland Mitigation | | Allow | | \$4,000 |
| PAVEMENT | UNIT | UNIT PRICE | QUANTITY | TOTAL |
| Gravel Access Road (limited access) | TONS | \$18 | 820 | \$14,760 |
| SITE FURNISHINGS | UNIT | UNIT PRICE | QUANTITY | TOTAL |
| Timber vehicular single arm swing gate | EA | \$3,500 | 2 | \$7,000 |
| HELEN'S WAY CROSSING | UNIT | UNIT PRICE | QUANTITY | TOTAL |
| Removal of Boardwalk | | Allow | | \$1,000 |
| Benches | EA | \$1,000 | 4 | \$4,000 |
| Boardwalk Plaza | | Allow | | \$5,000 |
| Culvert Crossing | | Allow | | \$3,000 |
| SUB TOTAL | | | | \$49,760 |
| 15 PERCENT CONTINGENCY | | | | <u>\$7,464.00</u> |
| TOTAL FOR PHASE III | | | | \$57,224 |

PHASE IV - GRASS PARKING

| LAWN PARKING | UNIT | UNIT PRICE | QUANTITY | TOTAL |
|-------------------------------|-------------|-------------------|-----------------|-----------------|
| Honeycomb plastic grass paver | PALLET | \$60 | 85 | \$5,100 |
| Topsoil | CY | \$20 | 580 | \$11,600 |
| Gravel Base | TONS | \$18 | 1670 | \$30,060 |
| Seeding | SF | \$0.10 | 47,700 | \$4,770 |
| Wetland Mitigation | | Allow | | \$4,000 |
| SUB TOTAL | | | | \$55,530 |
| 15 PERCENT CONTINGENCY | | | | \$8,330 |
| TOTAL FOR PHASE IV | | | | \$63,860 |



Schoenhardt

October 24, 2002

Richard Sawitzke, Director of Community Services
Town of Simsbury
933 Hopmeadow Street
Simsbury, CT 06070

Re: Preliminary Band Shell Cost Option
Talcott Mountain Music Festival Outdoor Theater

Dear Richard:

As discussed we are providing preliminary probable costs for 3 construction options for the proposed outdoor theater site on Iron Horse Blvd. The square foot base used for cost purposes has been derived from our discussions and the program information package you provided to us. In correlation with the preliminary cost estimate the options are generically outlined as follows:

Option A consists of a portable tent structure set on top of a concrete slab on grade. The tent is not a permanent facility and would require assembly and disassembly, no less than, every spring and fall. Assembly for a trained 6-man crew requires 8 hours. We project the life of the system to range 10-15 years. The lighting and sound system panels would be remotely located with lighting and speaker system installations required with each assembly. This scheme takes into consideration salvaging the barn structure and converting it into support facilities for stage performers. The facilities projected are dressing rooms, toilet rooms, green room, office space and storage. The interior spaces would be ventilated and air conditioned in the summer with minimal heat in the winter to prevent freezing plumbing lines. Two acres of site modifications are projected.

Option B represents a stretched fabric "tensile type" construction. The structure consists of a single footprint for both performing and back stage facilities set on a concrete slab on grade. The stage area would be covered with a stretched composite fabric canopy system hung off an exposed metal framing system. The fabric composite has a 20-30 year life with the fabric accounting for 50% of the base building cost. A sound panel system or architectural wall treatment around the stage sides and back would be used to amplify the sound out to the audience while separate the stage and back stage requirements. The back stage functions would again accommodate dressing rooms, toilet rooms, green room,

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office space and storage. The facilities would be under a separate roof from the stage framed with metal joists and steel deck. The wall construction would consist of concrete block. The interior spaces would be ventilated and air conditioned in the summer with minimal heat in the winter to prevent freezing plumbing lines. The lighting and sound system panels would be conveniently located backstage with stage lighting and sound systems mounted as a mix of permanent and moveable fixtures. Two acres of site modifications are projected.

Option C displays a pre-manufactured wood framed band shell. Due to the large mass of the system a premium is paid for a "one of a kind" unit. We believe a more creative designed system built on site could be completed within the same cost range. The structure would consist of a single footprint for both performing and back stage facilities set on a concrete slab on grade. Both stage and backstage facilities would be covered by a wood framed roof structure supported by a steel superstructure. The stage and backstage spaces would be separated with wood construction. The back stage functions would again accommodate dressing rooms, toilet rooms, green room, office space and storage and would also be framed with wood construction. Lighting and sound system panels would be conveniently located backstage. Stage lighting and sound systems could be mounted as a mix of permanent and moveable fixtures. Two acres of site modifications are projected.

After you review our attached preliminary massing sketches, product information sheets and cost matrix we look forward to your approval of allowing us to move into the next project phase. This would entail meeting with potential users and special interest groups, defining the project program, further study of site location and logistics and revise the cost estimate.

Sincerely,

A handwritten signature in black ink, appearing to read "Keith Epstein", with a long horizontal flourish extending to the right.

Keith Epstein, AIA

Schoenhardt

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Band Shell Study
Preliminary Cost Estimate
10/24/02

| | Building Type "A" (portable) | Building Type "B" (tensile structure) | Building Type "C" (wood shell) |
|-----------------------------------|---------------------------------|------------------------------------------|-----------------------------------|
| Site Work (100,000/acre) | 200,000 | 200,000 | 200,000 |
| Foundations & Slabs | 60,000 | 120,000 | 120,000 |
| Building Construction | 0 | 200,000 | 200,000 |
| Prefab System & Site Construction | *50,000 | 470,000 | 336,000 |
| Mechanical | 25,000 | 25,000 | 25,000 |
| Plumbing | 19,000 | 19,000 | 19,000 |
| Electrical | 49,000 | 49,000 | 49,000 |
| Theater Lighting | 60,000 | 90,000 | 90,000 |
| Sound Systems | 40,000 | 40,000 | 40,000 |
| Renovate Barn | 220,000 | 0 | 0 |
| Sub Total | 673,000 | 1,013,000 | 1,079,000 |
| Soft Costs & Gen'l Cond. | 168,250 | 253,250 | 269,750 |
| Preliminary Total | \$841,250 | \$1,266,250 | \$1,348,750 |

* System installation requires 6 trained workers 8 hours

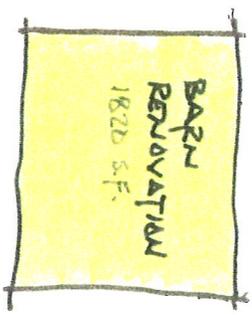
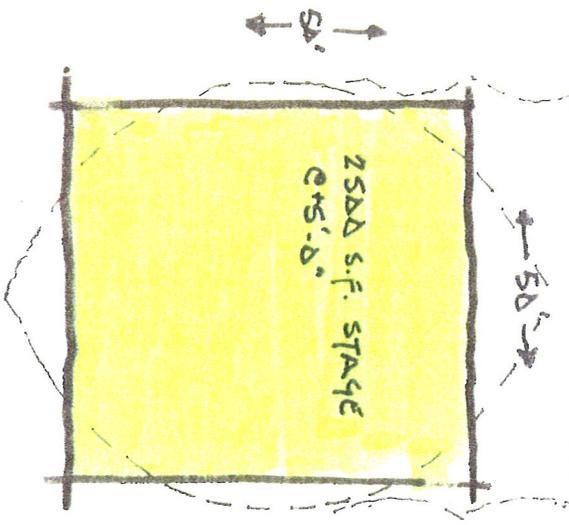
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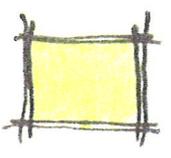
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DRYING A

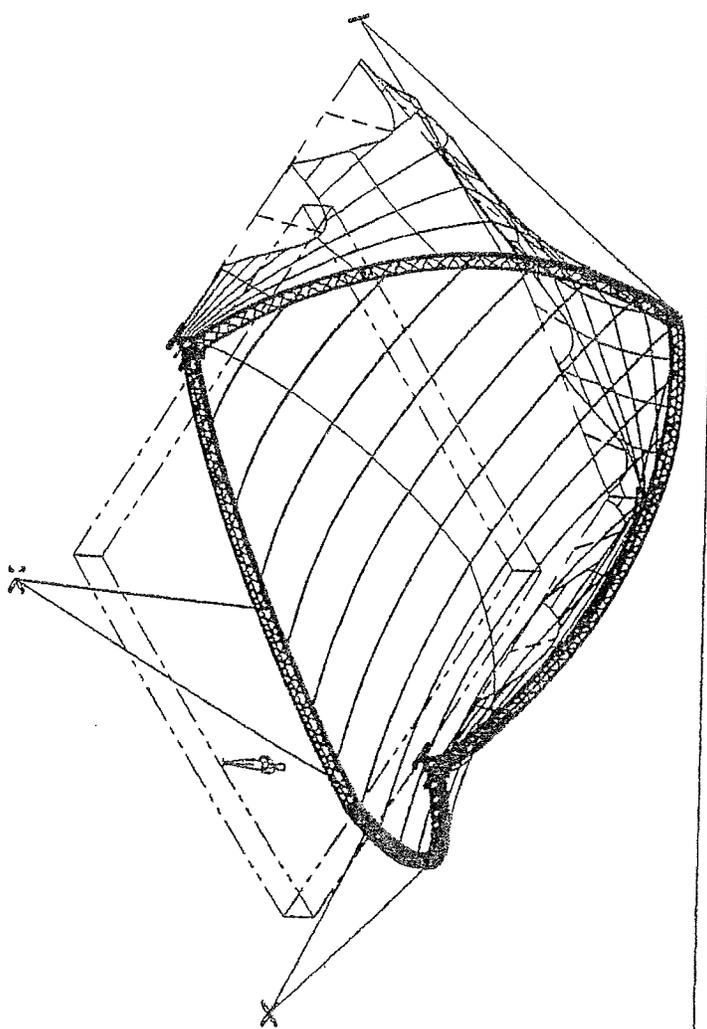
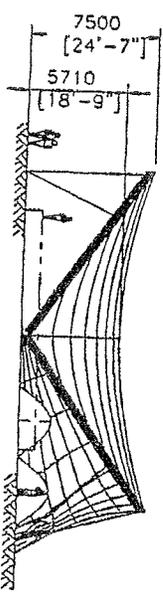
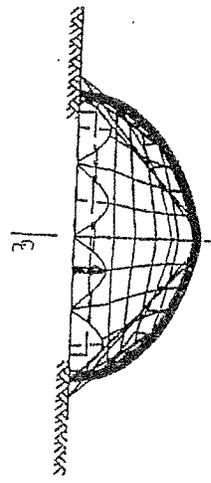
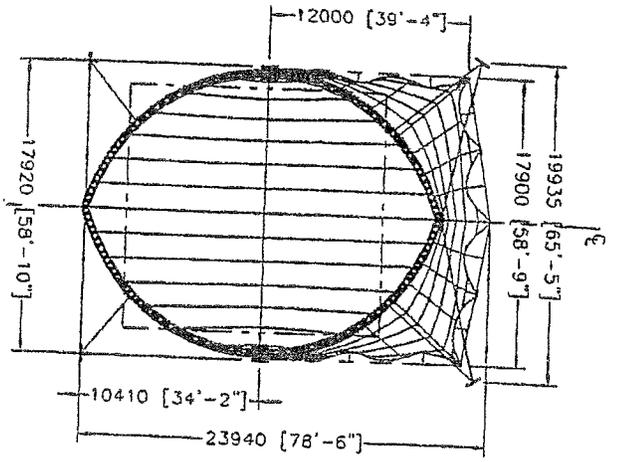
- PORTABLE STRUCTURE -



CONCRETE FIRST WALLS + SLAB CONSTRUCTION WITH FABRIC CLAD PORTABLE STAGE COVER



RENOVATED BARN WITH MISC. SUPPORT SPACES + TRILLETS



DESIGN CRITERIA - WARNER FABRIC-CLAD MODULAR STRUCTURES

Steady wind pressure: $q = 10$ psf (48 WPs)

Exposure factor: $e = 1.0$

Cost factor: $c = 1.0$

Design rain load: $r = 2.0$

Design snow load: $s = 1.4$ inches (35.5 mm) 15 min. rain. Care must be taken to ascertain roof slopes and textures of the fabric are maintained to avoid ponding.

Seismic loading: Contact our engineering department for the low relative mass and flexibility inherent in fabric-clad structures under seismic loading conditions.

| | |
|-------------------------|---------------------------------------------------------------------------------------------|
| FRAME | STRUCTURAL STEEL TUBING BRASS ELECTROPLATED FINISH |
| FABRIC CLADDING: | VINYL/POLYESTER FABRIC, FIRE RETARDANT - I.E.C. 3-109, - MPA 700 CALIFORNIA FIRE RESISTANCE |

| SECTION | LOCATION | SECTION TYPE | PART # | QTY | COMMENTS |
|---------|----------|--------------|--------|-----|----------|
| | | | | | |
| | | | | | |
| | | | | | |

| | |
|--------|---------|
| AREA | sq. ft. |
| WEIGHT | lbs |

Warner Shelter Systems Limited

SCALE: 1:100

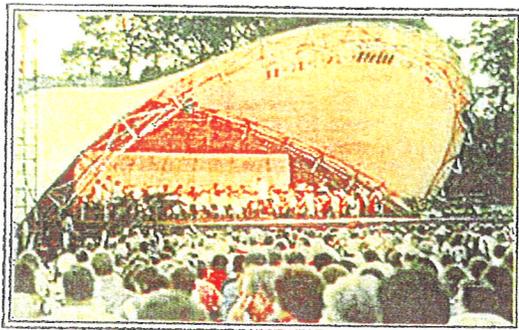
DATE: 00.12.01

APPROVED BY: [Signature]

SA-56

70011

PRODUCT : ARABESQUE STAGECOVER : MODEL : SA80



SA80

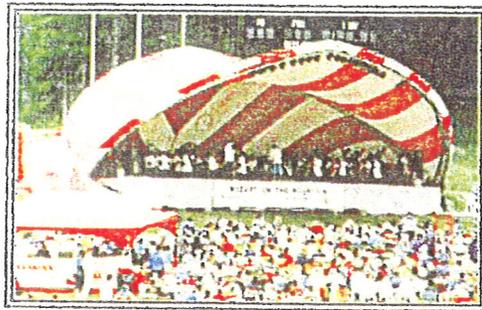
- 71' deep x 80' wide x 29' high, nominal
- will accommodate stages as large as 60' x 40'
- set-up approximately 10 hours with 6 men
- shipping: weight 7,500 lbs; dimension 4' x 8' x 20'

also available:

- SA34
- SA41
- SA56

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PRODUCT : ARABESQUE STAGECOVER : MODEL : SA56 



SA56

- 78' deep x 56' wide x 18' high, nominal
- accommodates stages as large as 48' x 48' x 4'
- set-up approximately 4-6 hours with 4 men
- shipping: weight 3,100 lbs; dimension 3' x 8' x 18'

also available:

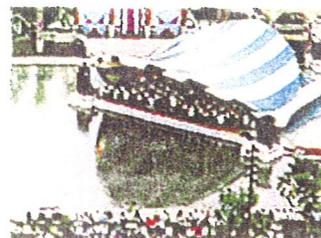
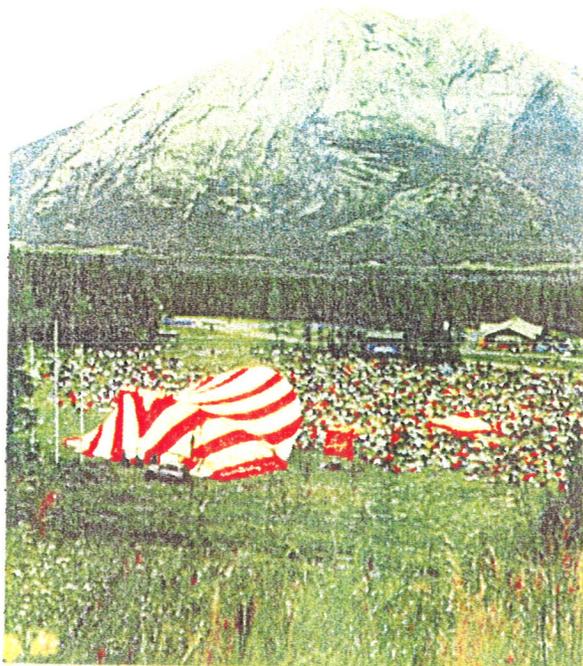
- SA34
- SA41
- SA80



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PRODUCT : ARABESQUE STAGECOVER : GALLERY 

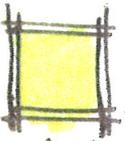
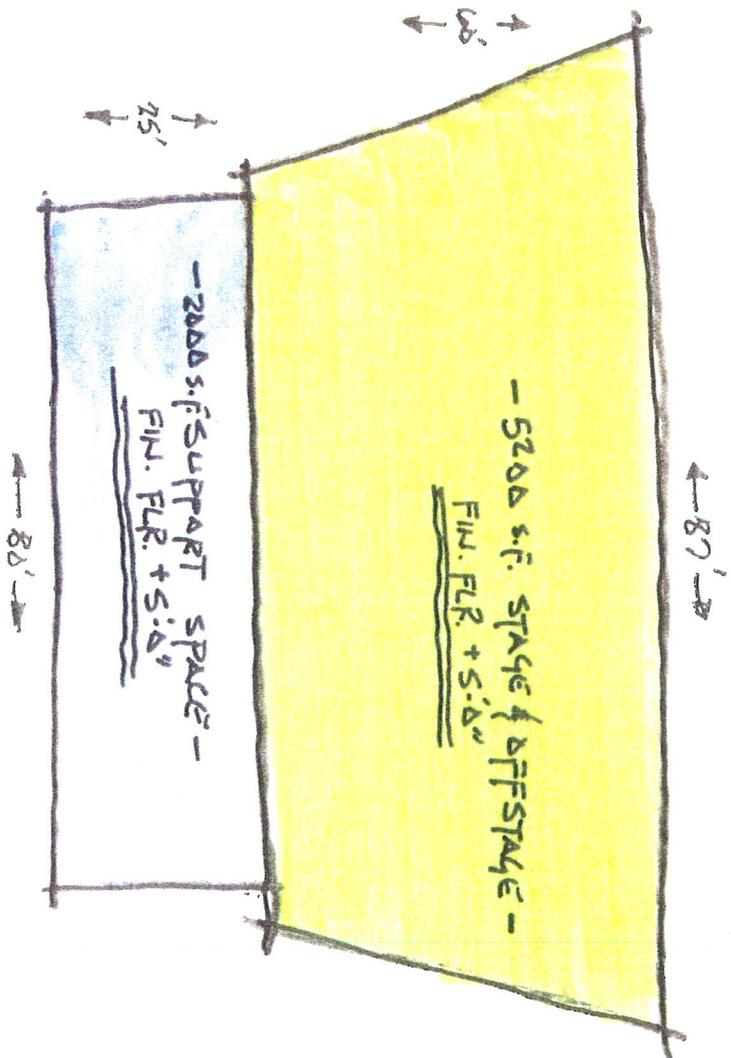


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OPTION B

- TENSILE STRUCTURE -



* CONCRETE PRECAST WALL & SLAB CONSTRUCTION
* SITE ASSEMBLED TENSILE STRUCTURE



* CONCRETE PRECAST WALL & SLAB CONSTRUCTION
* CONCRETE BLOCK WALL CONSTRUCTION TO 12.0" HIGH,
TOILET ROOMS, SEVERAL SUBDIVIDED ROOMS &
AIR CONDITIONING

AMPHITHEATERS



Amphitheaters exemplify “the big and the small” of tensioned membrane applications. Many of these Birdair installations, either privately funded or government sponsored, are perfect cases of design ingenuity working in tandem with community cultural requirements. Amphitheater applications amplify an important feature of this tech-

nology – a project need not be of immense proportions to be considered for tensioned membrane design. Nighttime signage, architectural originality, and a feeling of openness all contribute to intangible but important building values. These are especially noteworthy attributes when considering how a structure can best serve the community as a cultural fixture as well as a resource for pleasure and entertainment.

Again and again, architects can find successful installations of Birdair buildings in diverse geographic settings with extreme weather conditions. In each

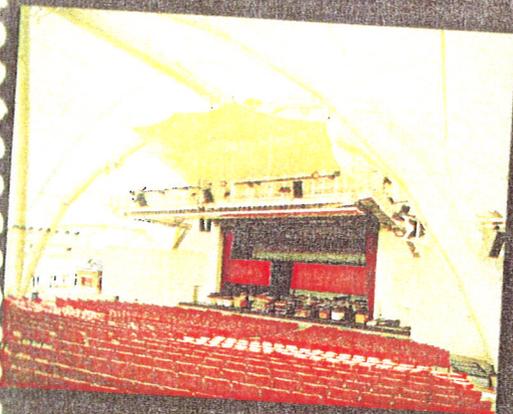
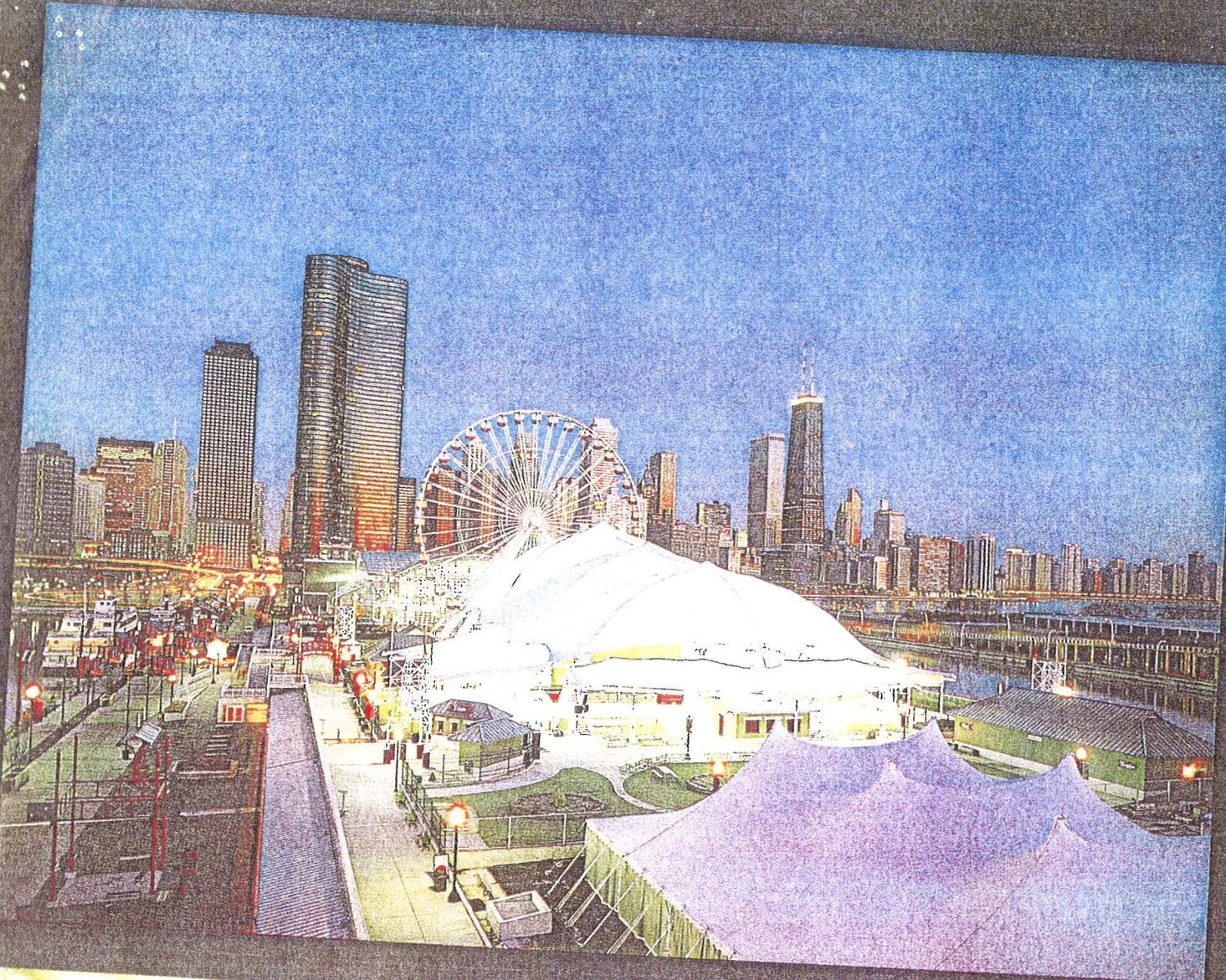
situation, the Teflon-coated woven Fiberglas membrane so often specified for tensioned membrane use stands up to the environmental and physical challenges imposed on it.

Birdair's track record for team building and cooperation with governments – local, state or national – facilitates the development of community based projects such as amphitheaters and amusement centers, and is an important factor in bringing such undertakings to a successful conclusion.

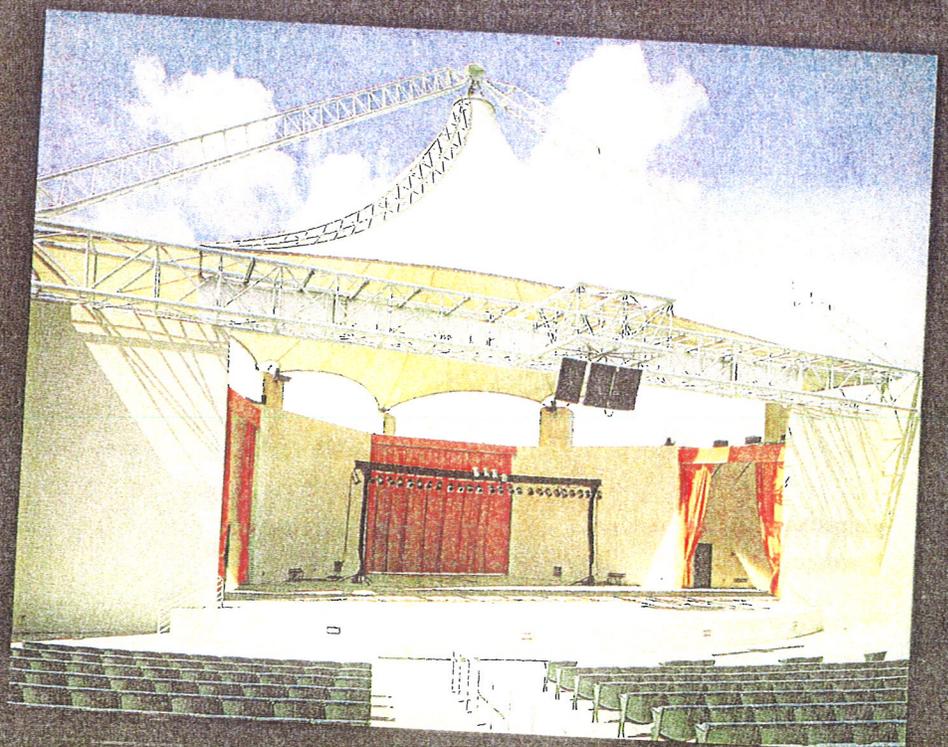
*Upper: Freedom Ring, Clark Air Force Base, Philippines.
Engineer: Ammann & Whitney. Photography: Adphoto, Inc.*

*Left: Texas Amphitheater Bandshell, Glen Rose, Texas.
Architect: Quorum Architects.*



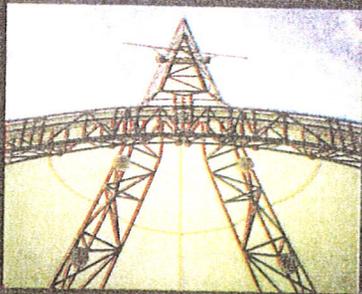
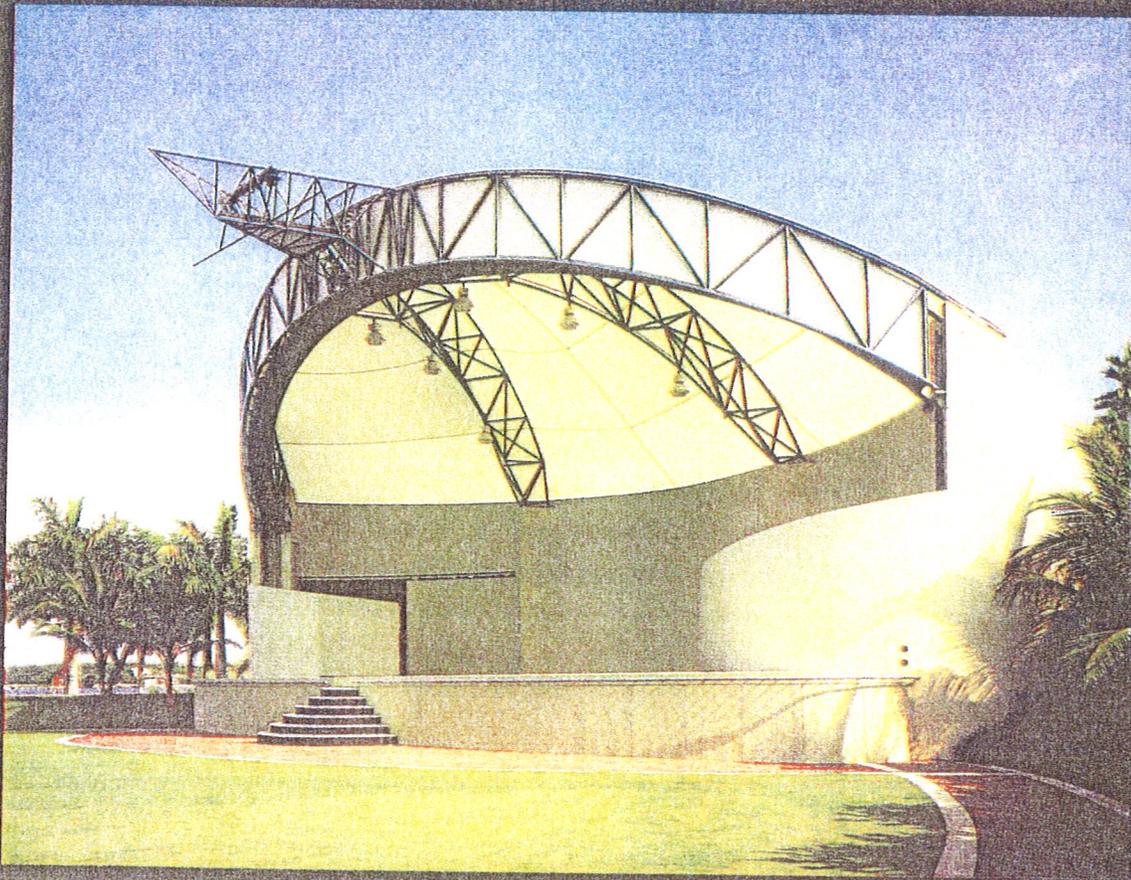


*Upper & Middle: Chicago Navy Pier,
Chicago, Illinois.
Architects: BTAVOA.
Engineer: Rubinos & Mesia Engineers.*

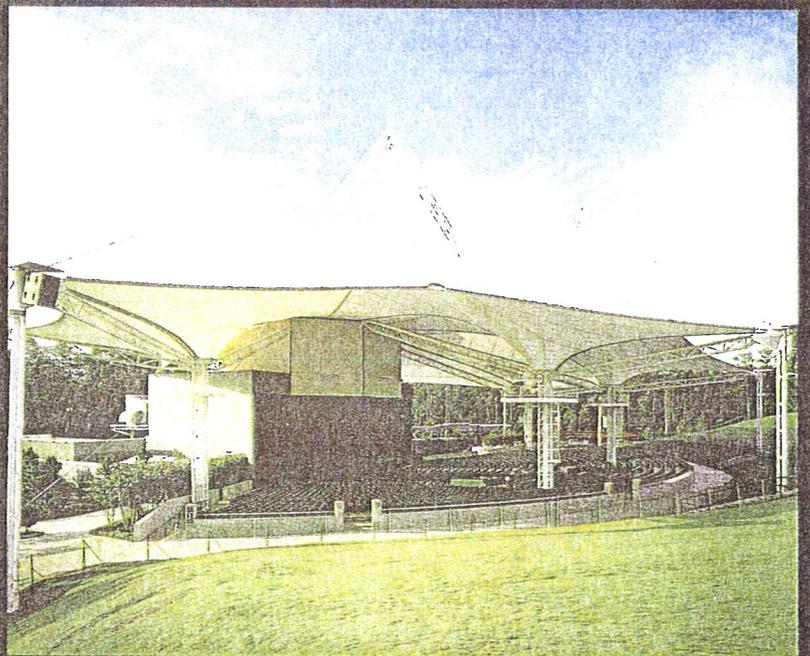
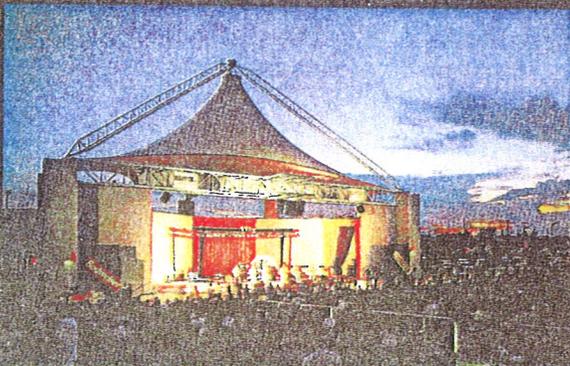
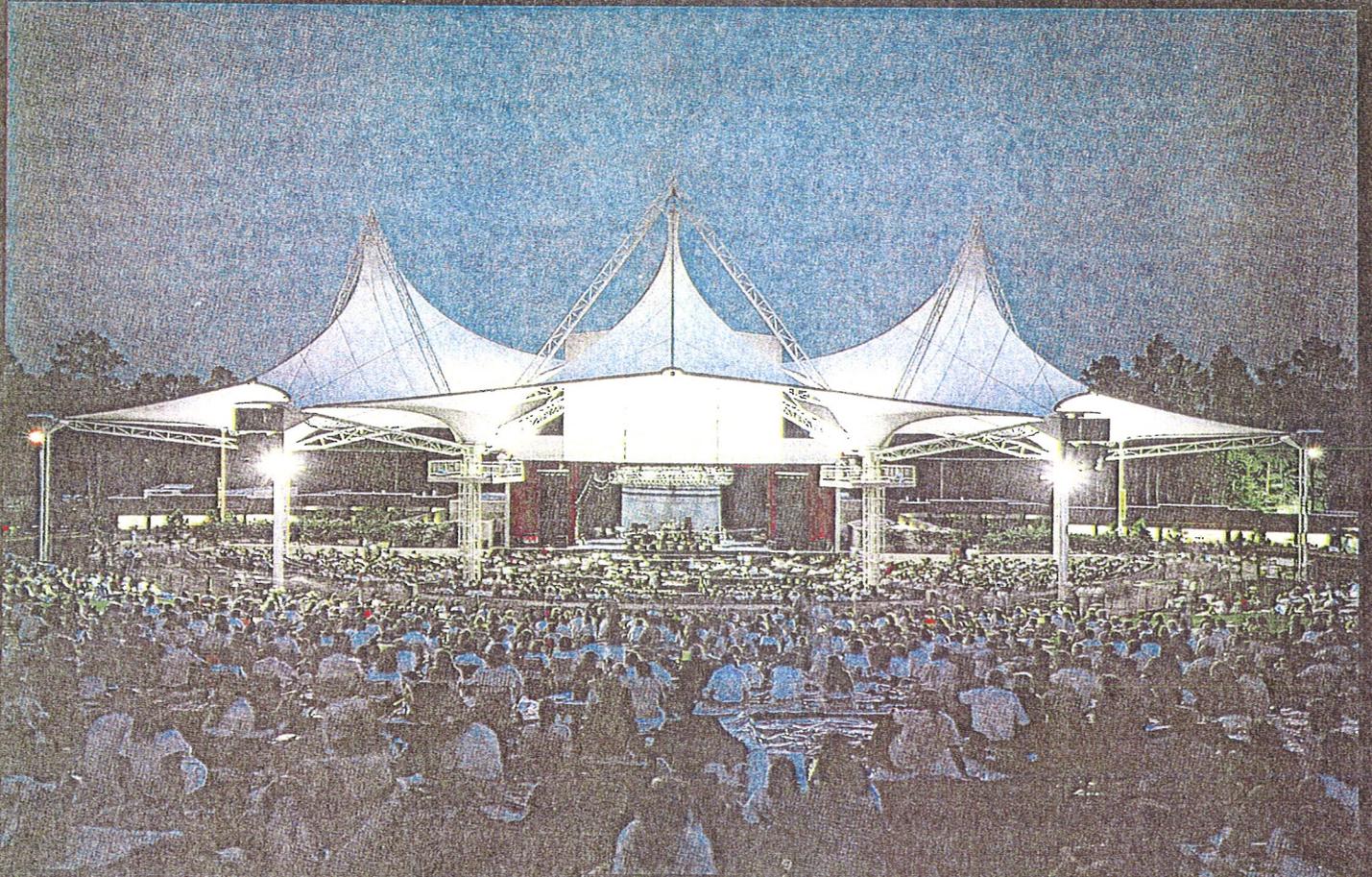


*Right: Pompano Beach Bandshell,
Pompano Beach, Florida.
Architect: Jeff Falkanger and Associates.
Engineer: John Williams.*

AMPHITHEATERS

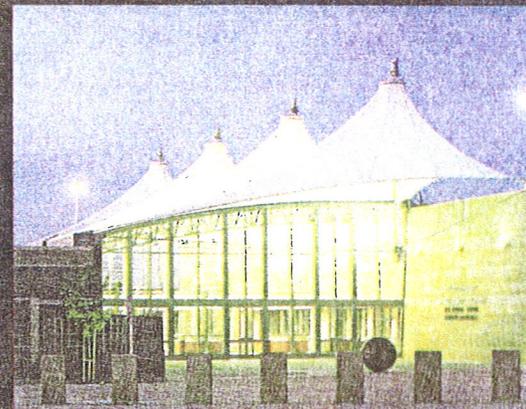
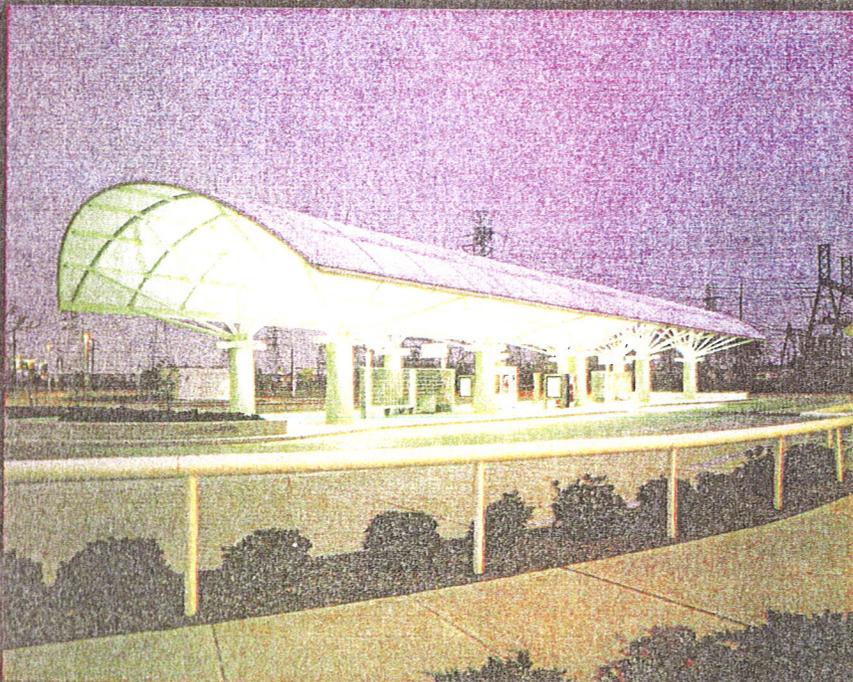
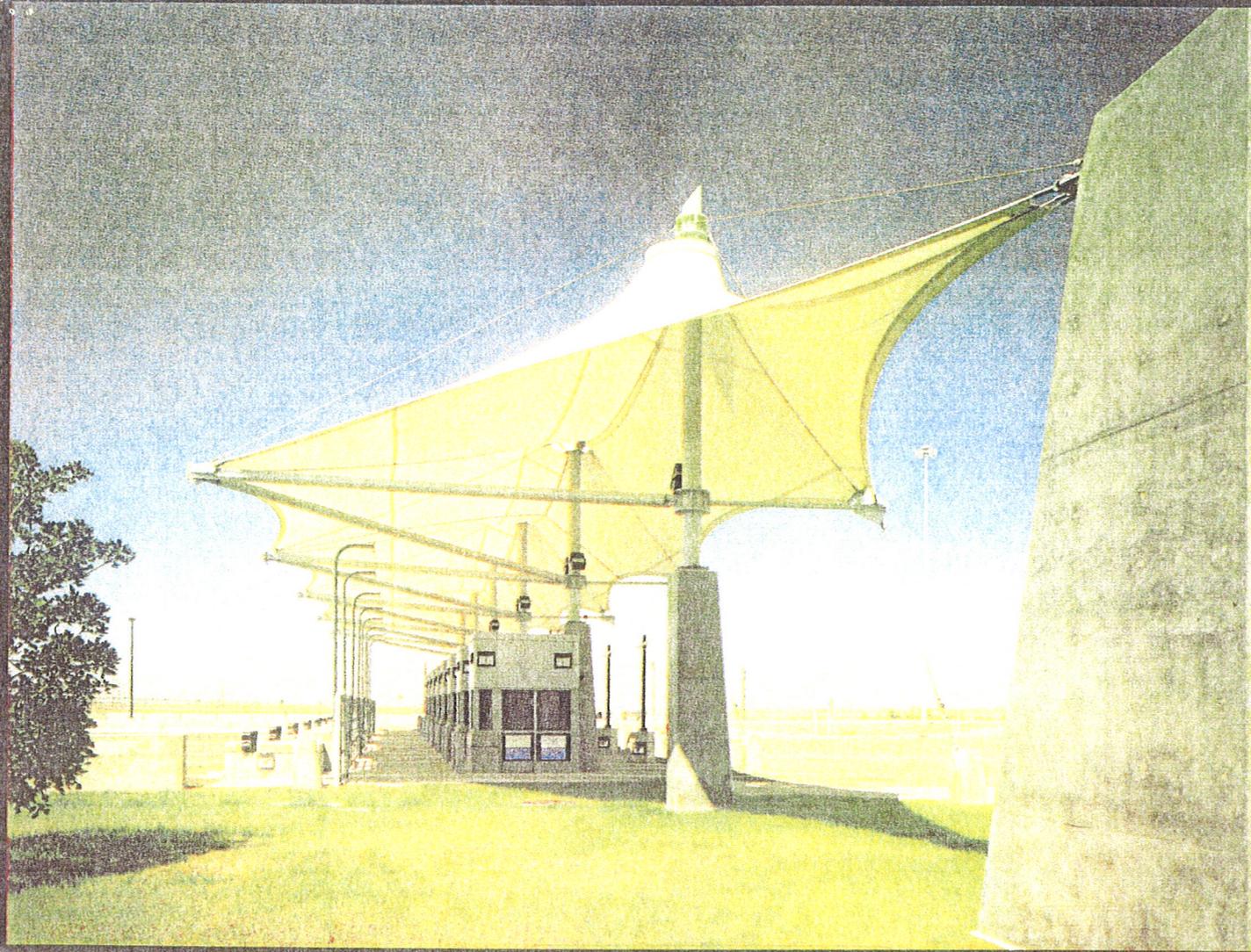


AMPHITHEATERS



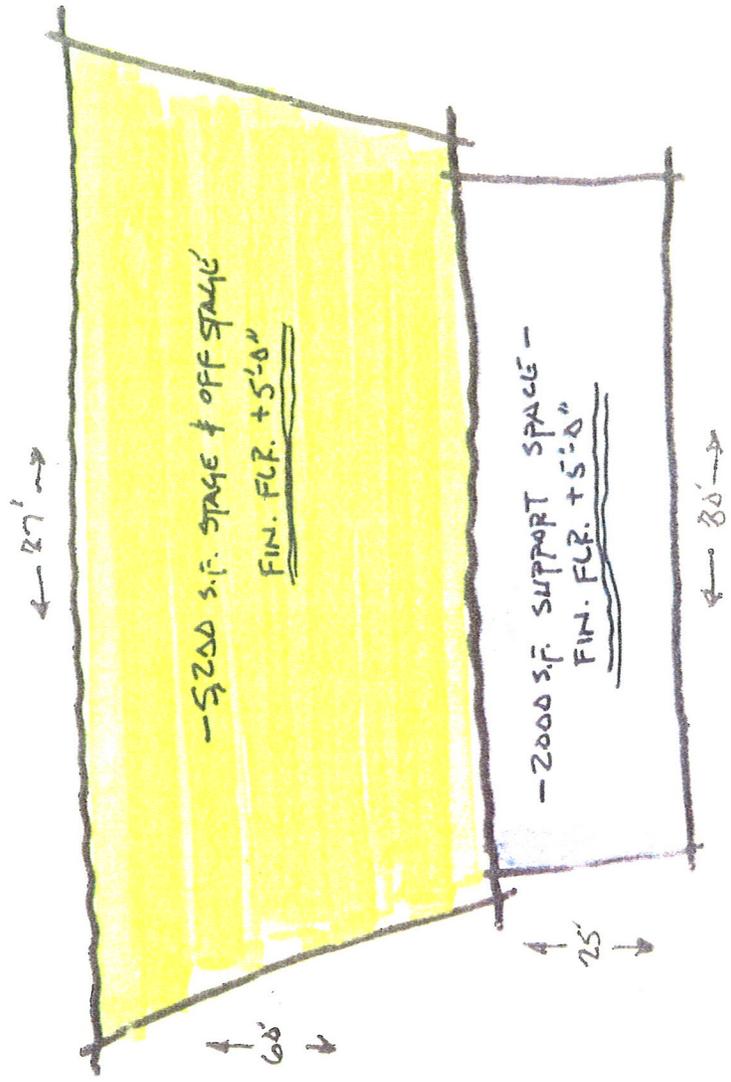
Upper and Right: The Cynthia Woods Mitchell Center For The Performing Arts (The Woodlands Amphitheater). The Woodlands, Texas. Roof Consultant: Horst Berger Partners.

Left: Pompano Beach Bandshell, Pompano Beach, Florida. Architect: Jeff Falkanger and Associates. Engineer: John Williams.



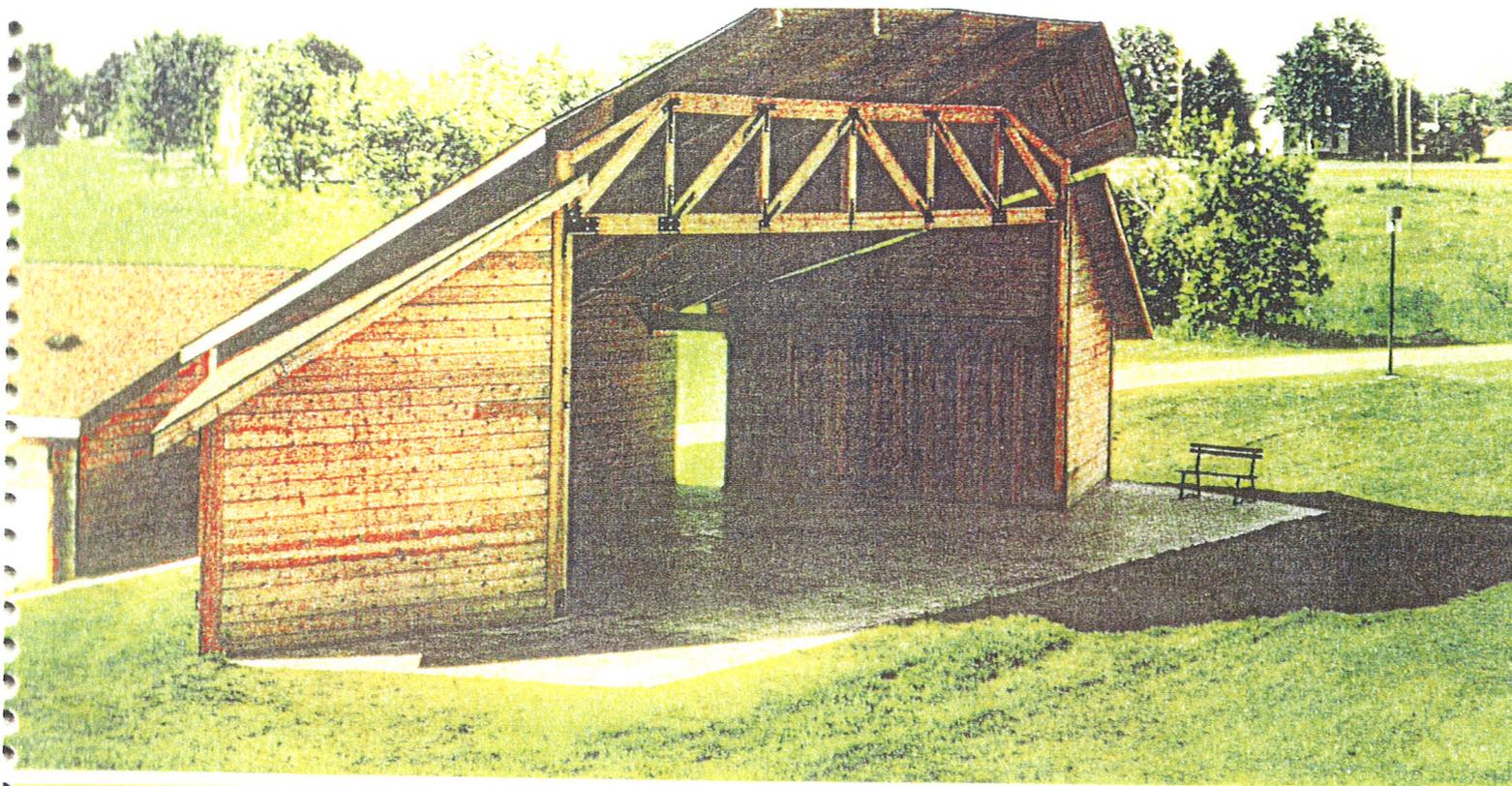
OPTION C

— WOOD STRUCTURE —



- * CONCRETE FRAMT WALL & SLAB CONSTRUCTION
- * SITE ASSEMBLED PREFAB WOOD SHELL

- * CONCRETE FRAMT WALL & SLAB CONSTRUCTION
- * WOOD FRAMED SINGLE STORY STRUCTURE WITH TOILETS & SEVERAL SUB-DIVIDED SPACES WITH A/C



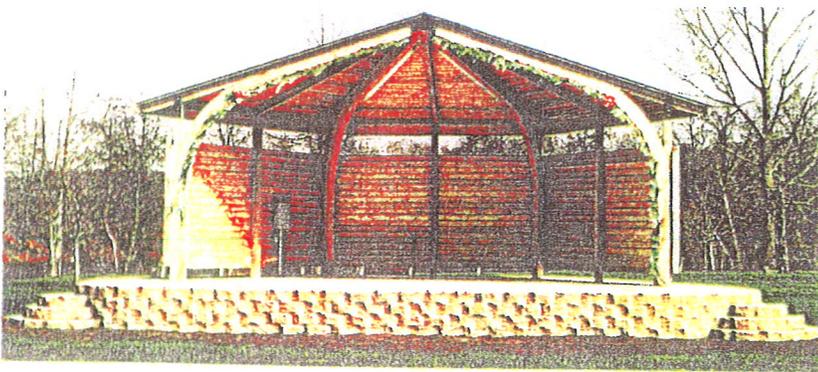
Band Shells

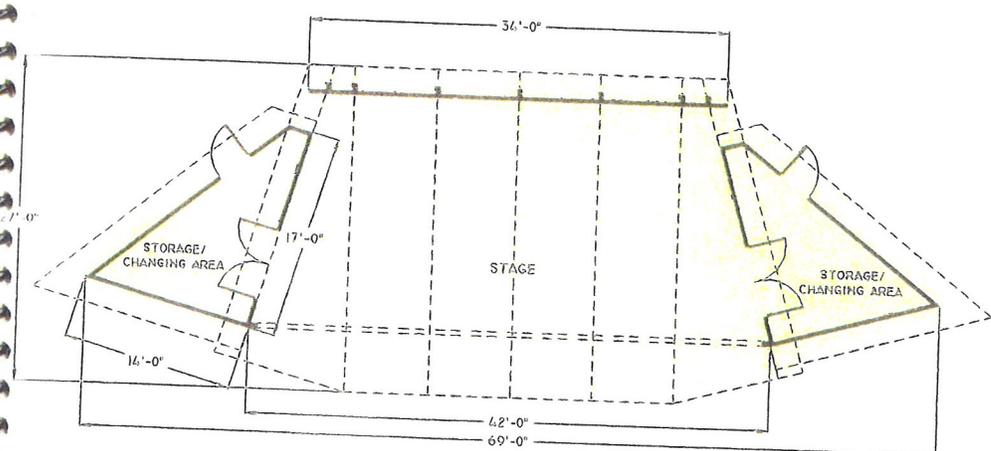
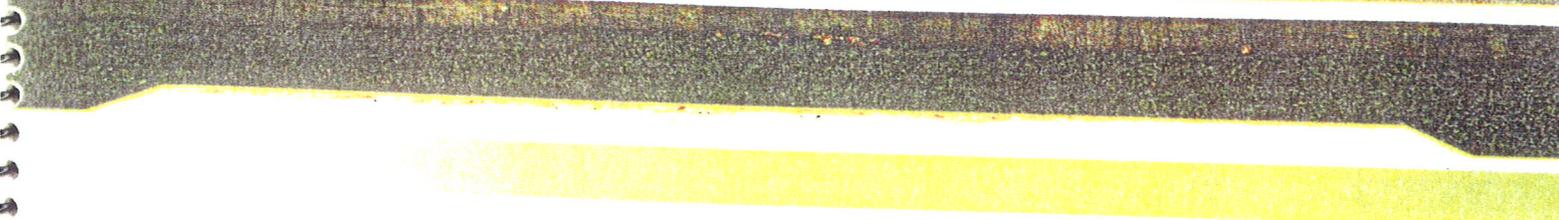
Band 1, 2, 3 & 4

Pre-fab engineered building package (Appleton, Wisconsin shown above). The fan-shape close-in wings feature dressing room, lighting and sound equipment storage, open trusses for holding stage lights or sound equipment, open band shell design for special holiday events, engineered timbers are pre-fabricated at Cedar Forest Products so they arrive at the job-site ready for immediate installation.

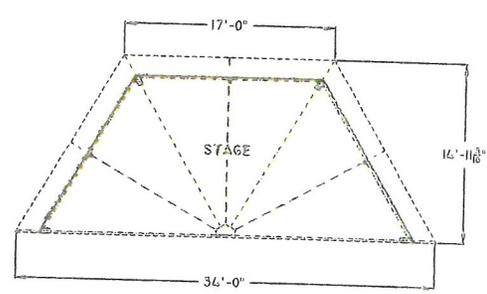
We have standard plans available or Cedar Forest Products can design a custom laminated band structure to meet your specific needs. Complete shop drawings for contractor/architect approval. Installation instructions are available upon request.

A Cedar Forest design is a complete material package. Compare our value, nobody builds more of it into every square foot.

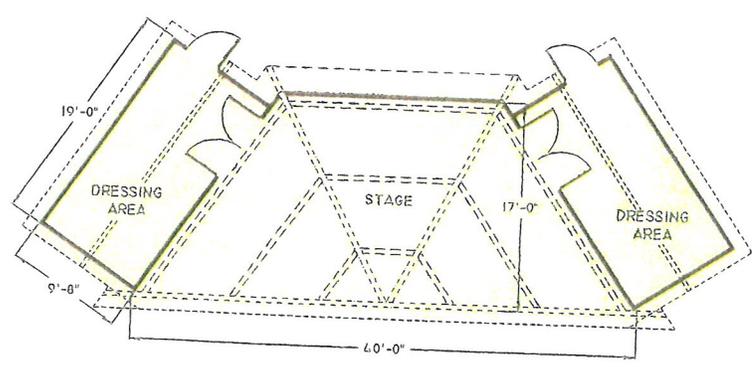




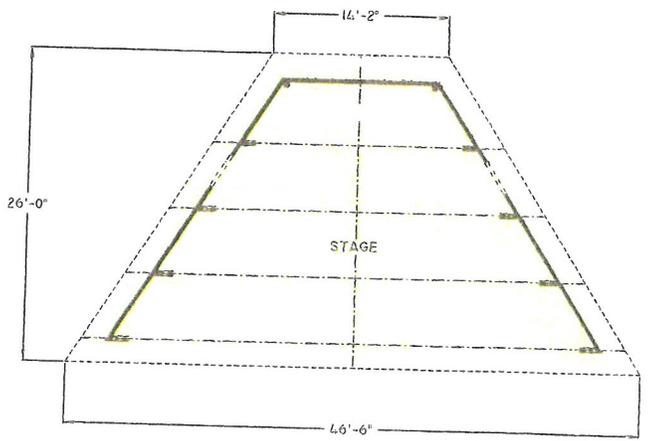
BAND 1 69' x 27'



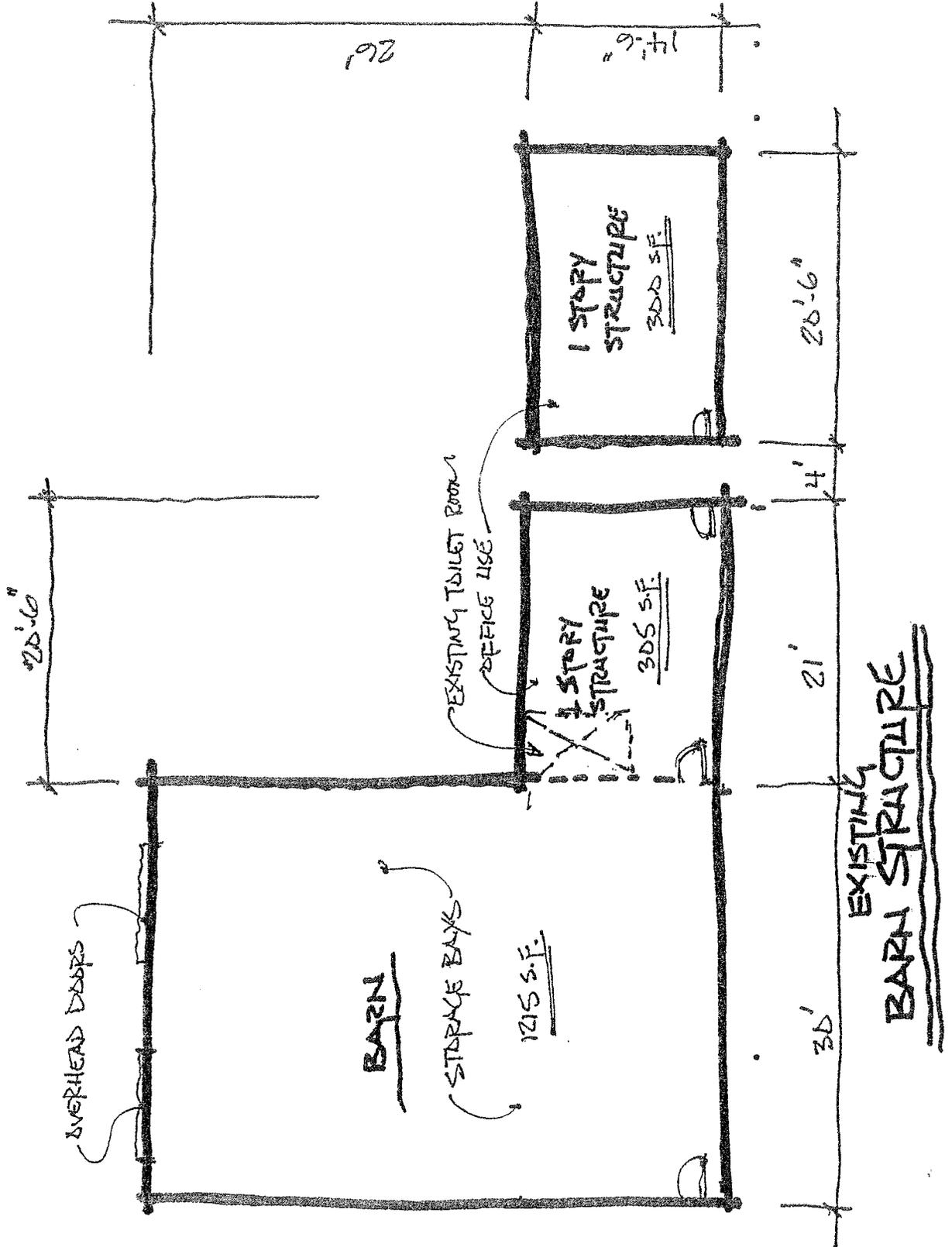
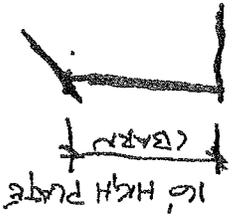
BAND 2 34' x 15'



BAND 3 40' x 19'



BAND 4 47' x 26'



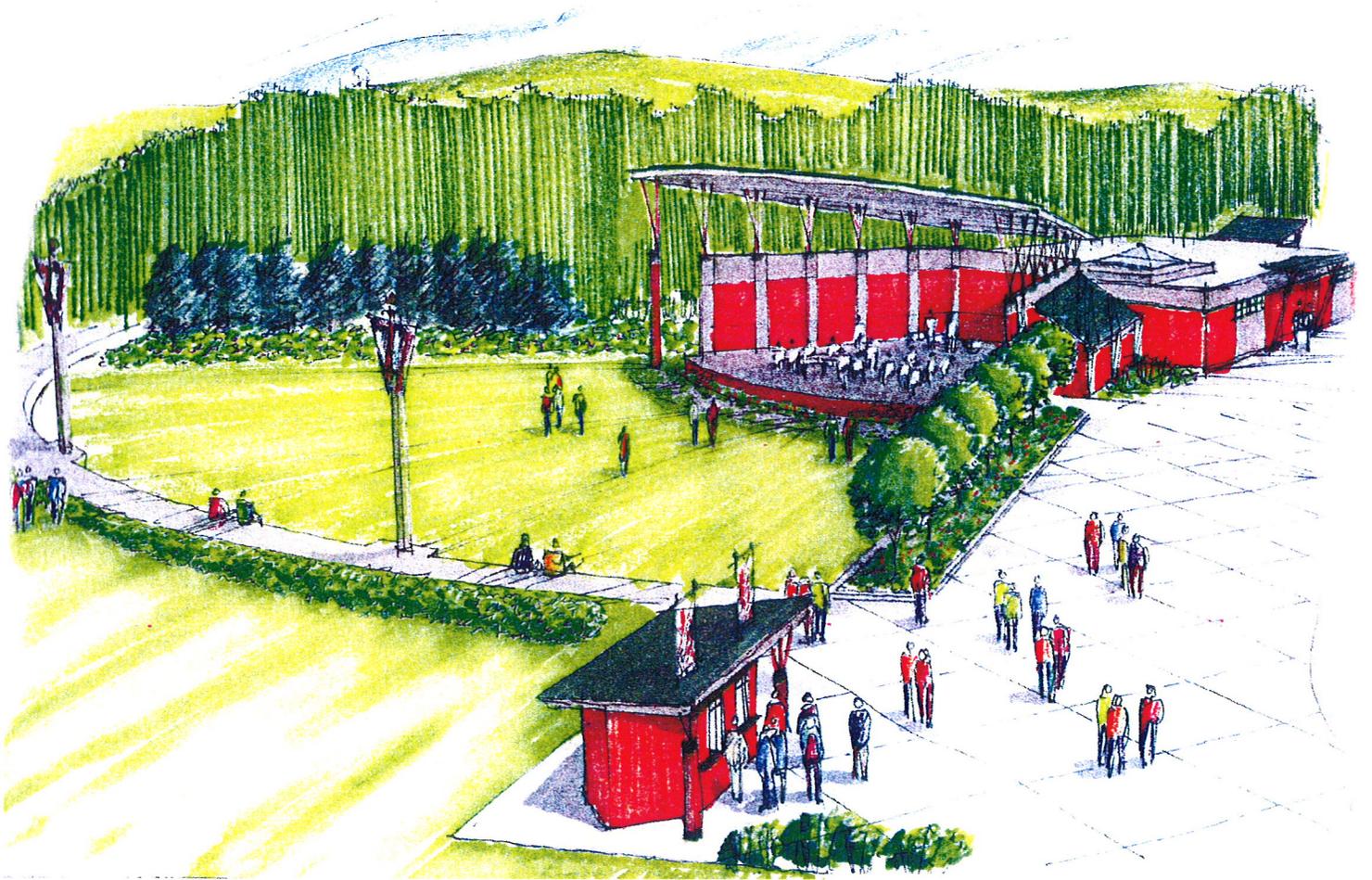
Schoenhardt

Architecture + Interior Design

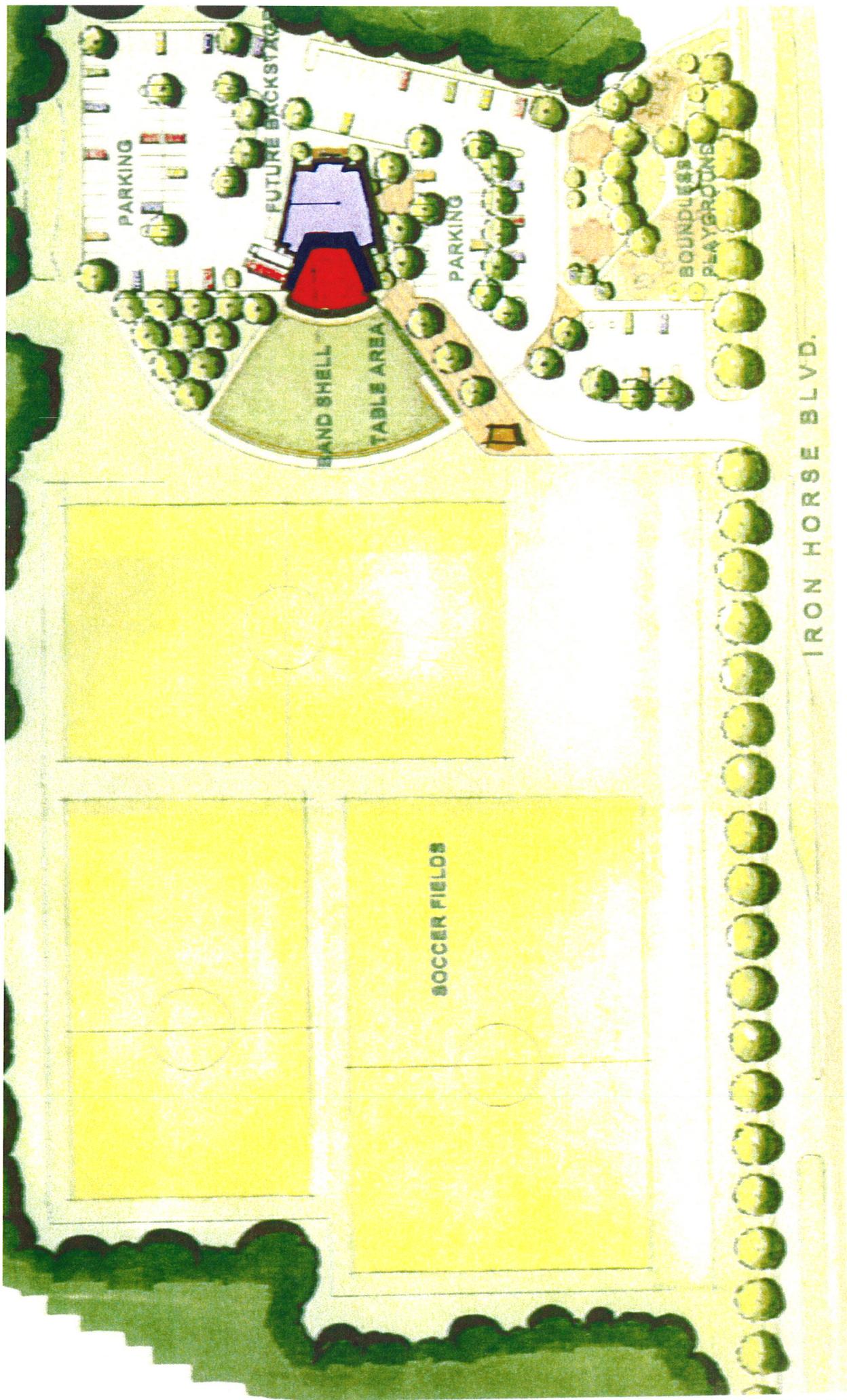
One Massaco Place
Simsbury, CT 06070

tel 860.658.4496
fax 860.658.5280

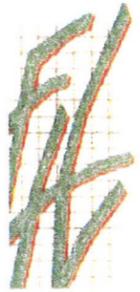
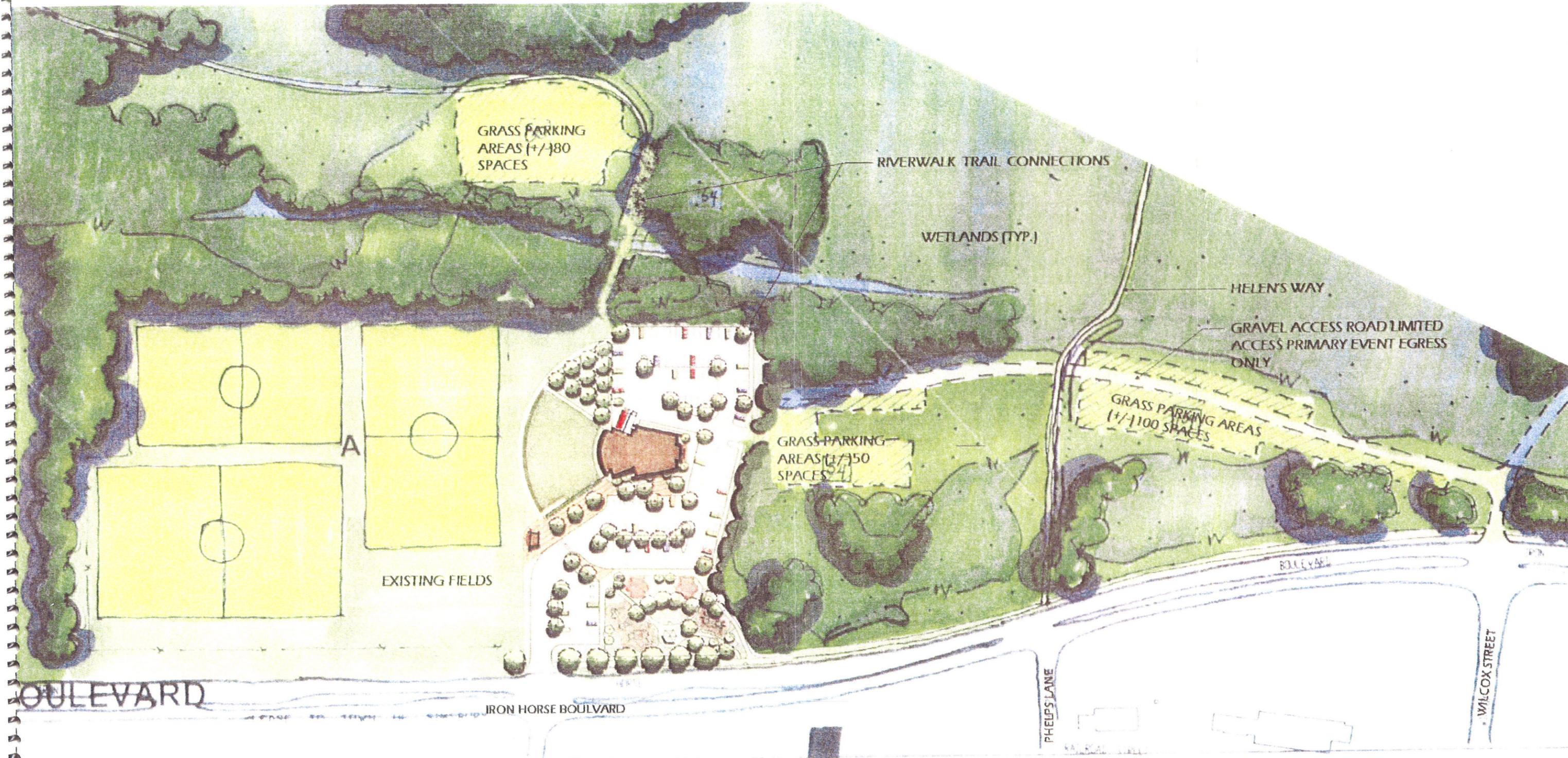
schoenhardt.com



Performing Arts Center at Simsbury Meadows



Performing Arts Center at Simsbury Meadows



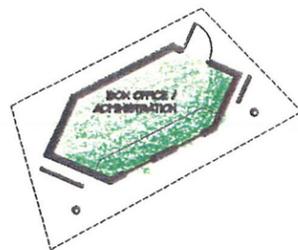
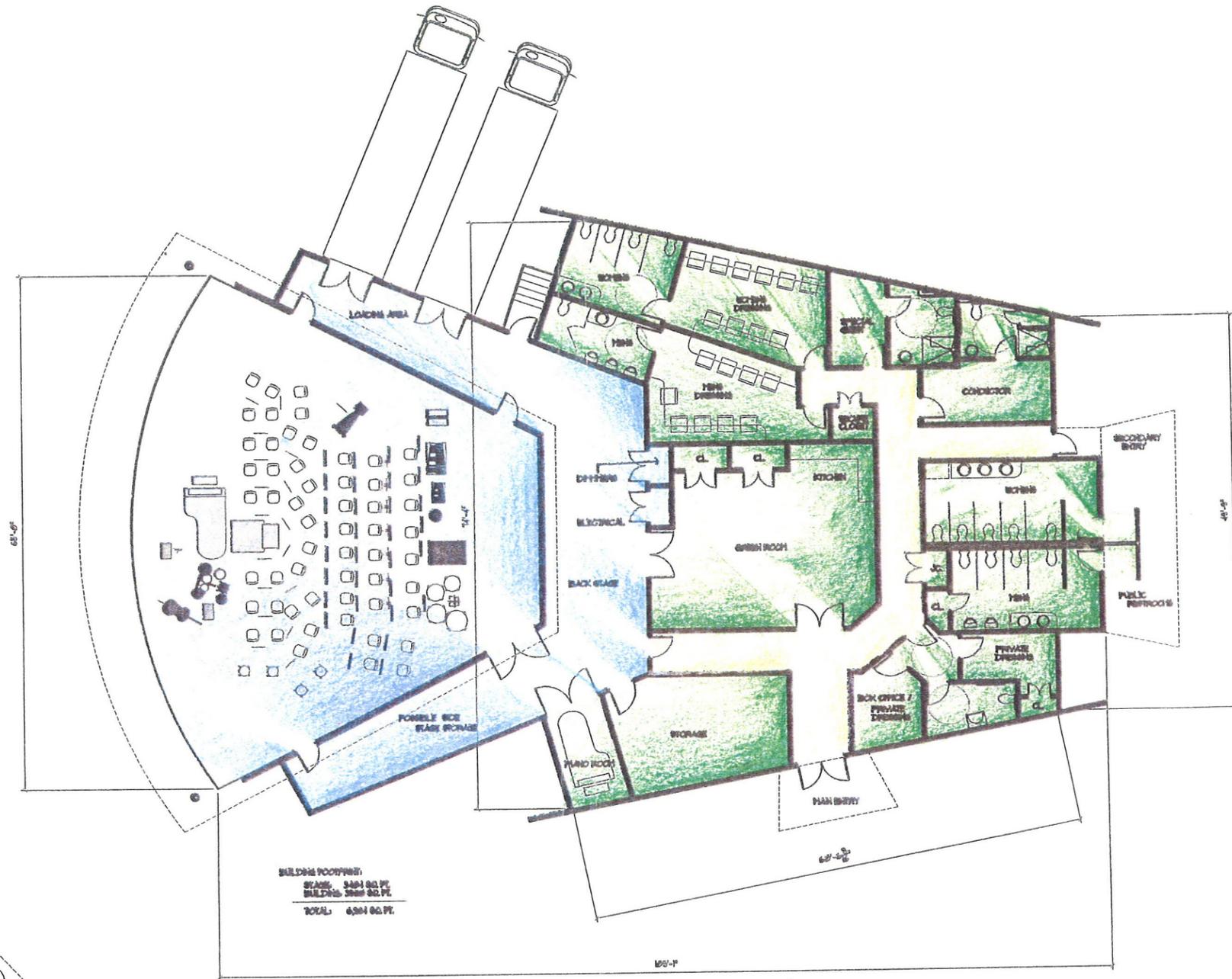
FERRERO HIXON ASSOC

Landscape Architects and Planners
 P.O. Box 425 Simsbury, CT
 Phone: (860) 658-0456

SIMSBURY MEADOWS BANDSHELL

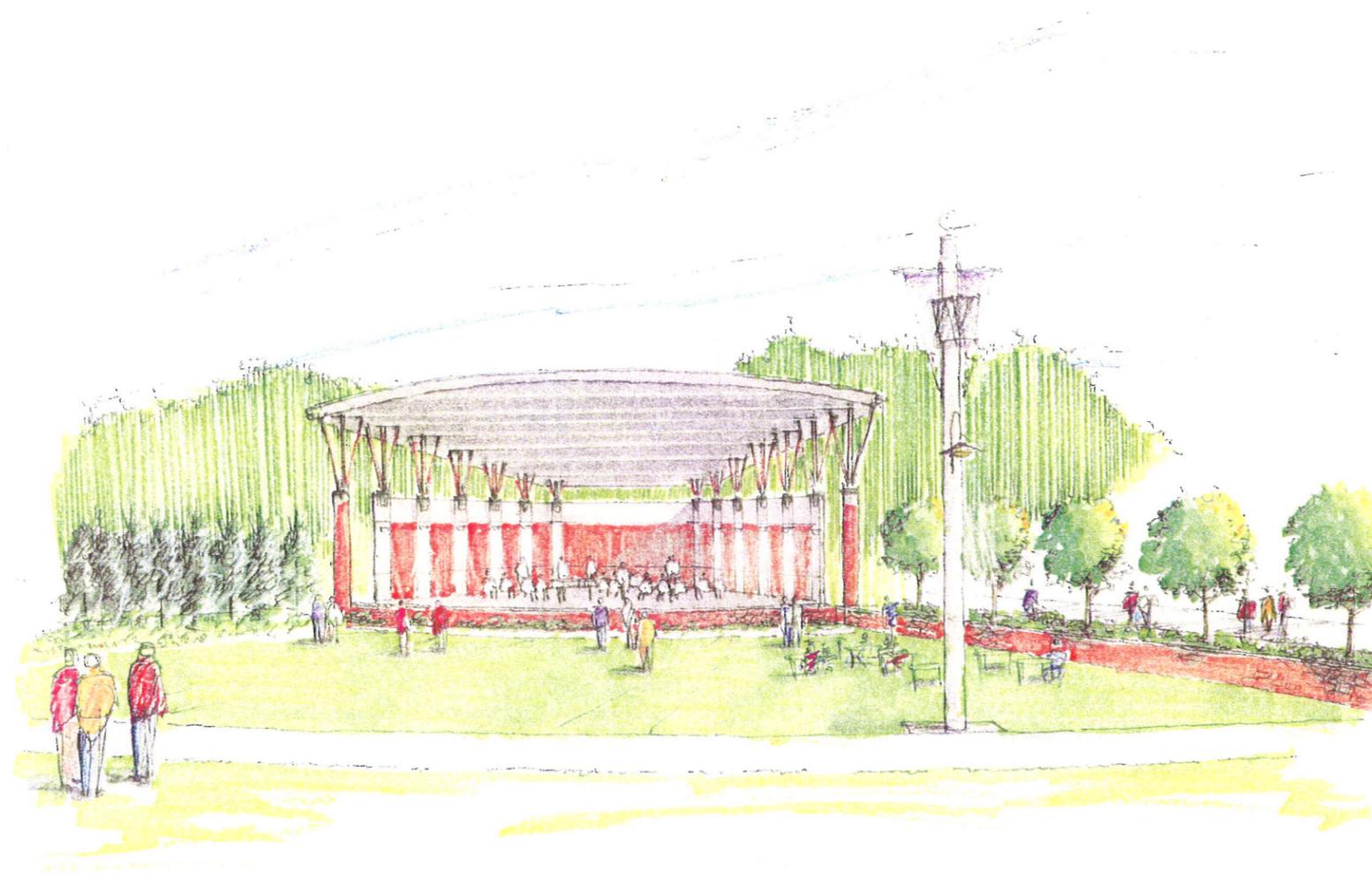
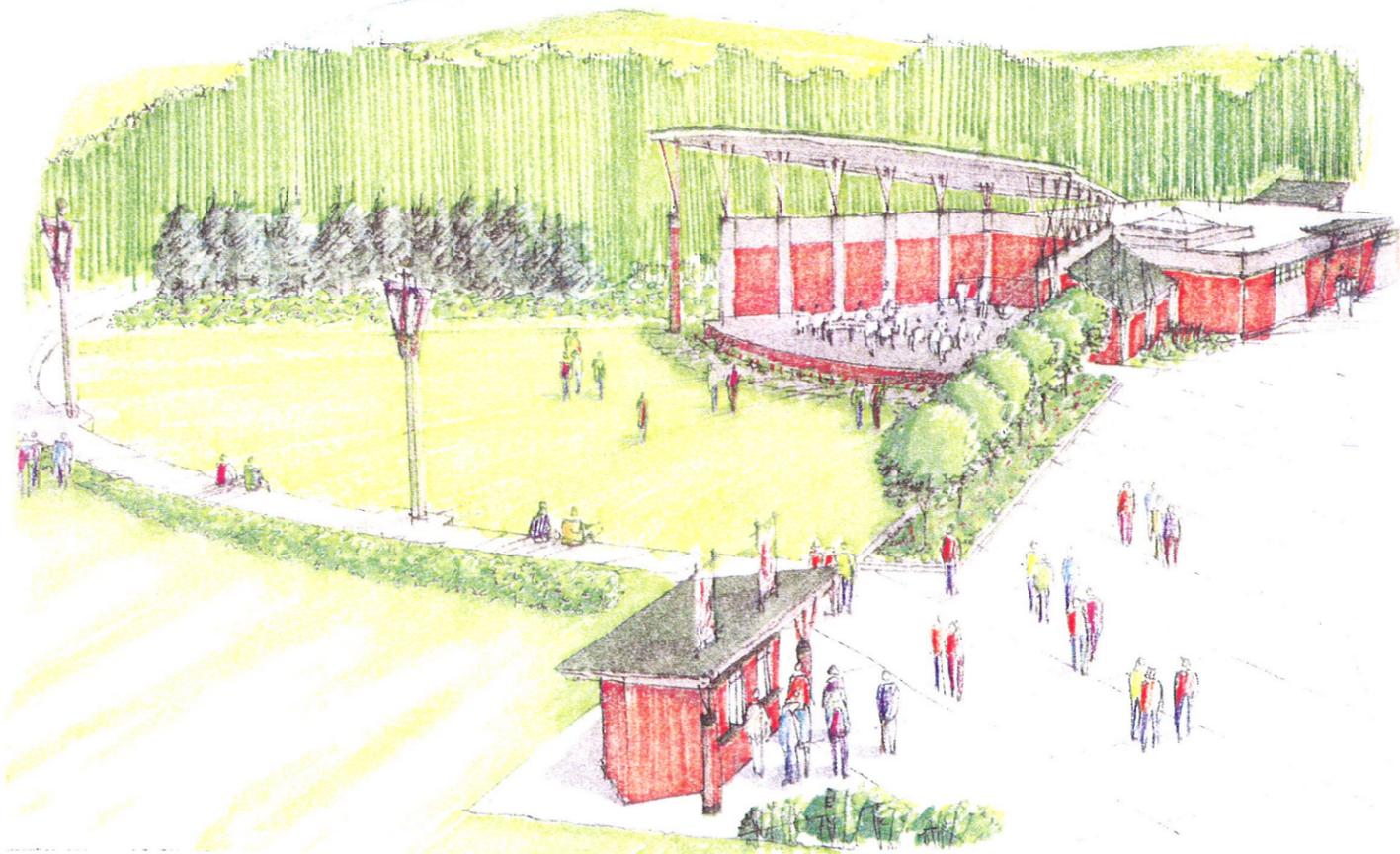
IRON HORSE BOULEVARD, SIMSBURY, CT

DATE: JANUARY 28 2003
 CLIENT: TOWN OF SIMSBURY

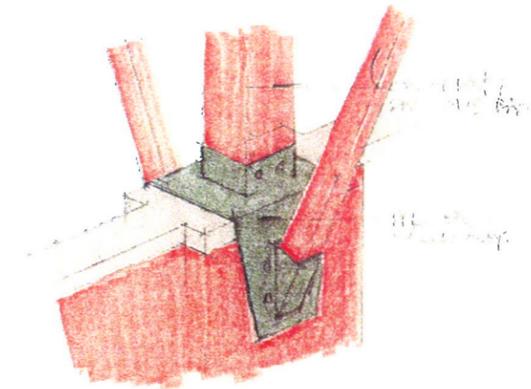


Simsbury Bandshell

Floor Plan - 1/8" = 1'-0"



Simsbury Bandshell | Perspectives



Structural Brace Detail 1-1/2" = 1'-0"

