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FACILITIES PROGRAM

BEN HILL GRIFFIN STADIUM
FACILITY UPGRADES

UAA-62

AUGUST 2, 2021

UF | UNIVERSITY of FLORIDA

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TITLE SHEET

BEN HILL GRIFFIN STADIUM FACILITY UPGRADES

UAA-62

FACILITIES PROGRAM

FOR

UNIVERSITY ATHLETIC ASSOCIATION
UNIVERSITY OF FLORIDA

MAIN CAMPUS
UNIVERSITY OF FLORIDA
GAINESVILLE, FLORIDA

AUGUST 2, 2021

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SIGNATURE SHEET

UAA-62 BEN HILL GRIFFIN STADIUM FACILITY UPGRADES
FACILITIES PROGRAM
FOR

THE UNIVERSITY ATHLETIC ASSOCIATION
UNIVERSITY OF FLORIDA

MAIN CAMPUS
UNIVERSITY OF FLORIDA
GAINESVILLE, FLORIDA

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INTRODUCTION

A. PROJECT BACKGROUND and JUSTIFICATION

The University Athletic Association desires to construct improvements to the existing Ben Hill Griffin Stadium facility. The Ben Hill Griffin Stadium facility improvements will include seating bowl upgrades to replace lower bowl bench seats with chairbacks, access upgrades of aisle widening and handrails, bench seat width adjustments, concrete restoration, scoreboard and sound system upgrades, east concourse upgrades, and south concourse upgrades. Potential renovation of south endzone areas to provide a Club area and/or Loge Boxes may also be included.

The University has developed previous studies to form a basis for the project, however, the Design Team will be tasked with reviewing all past studies and develop project alternatives and priorities. Included in the review will be the option of replacing the existing suites glazing with operable windows. The chosen alternatives will form the basis for the final Facility Program.

B. GENERAL PROJECT DESCRIPTION

Program Spaces to be Included in this Project are:

Stadium Seating Bowl

The stadium seating bowl improvements will provide upgrades to the access aisles by increasing the width and adding handrails, seating upgrades to include replacement of bench seats with chairbacks and bench seats width adjustments, and concrete restoration. The scoreboards and sound systems will also be upgraded.

East and South Concourses

The east and south concourse areas will be upgraded.

South Endzone

The south endzone will be studied for potential renovations to include a Club area and/or Loge Boxes.

C. UNIVERSITY PLANNING and DESIGN OBJECTIVES

The following general goals and objectives shall be considered and addressed throughout design, construction, and commissioning. Consult the **UF Design & Commissioning Services Guide** for amplifying information.

Project-specific design goals are outlined in the **Owner's Project Requirements (OPR)** document in section XVII of this Facilities Program.

1. **TREE PRESERVATION**
   Not applicable.
2. **LANDSCAPING, STORMWATER, AND EXTERIOR LIGHTING**
   Not applicable.
3. **BICYCLES, TRANSIT, WALKWAYS AND MOTOR VEHICLE CIRCULATION**
   Not applicable.

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4. **DESIGN FOR FUTURE EXPANSION AND RENOVATION**
Within program and budget constraints, the renovations will be designed to allow flexibility for future growth and change. The usable life and sustainability of the facility shall be enhanced by incorporating features for remodeling and expansion designed to reduce future renovation costs. The Campus Master Plan shall be consulted for guidance on future building locations that should not be impeded by new utilities or other infrastructure associated with the project. See the **OPR** document in section XVII of this Facilities Program for detailed, project-specific goals related to flexibility.

5. **CONTEXTUAL SITE AND BUILDING DESIGN**
Not applicable.

6. **UNIFYING EXTERIOR TREATMENT THROUGH USE OF BRICK**
The use of "Gainesville Range" red brick for the major portion of the exterior finish is required in order to serve as the primary visual element consistently used in unifying all campus facilities. The use of "accent" brick is discouraged. Other unifying architectural treatments should be considered that reflect modern interpretations of the collegiate gothic style as expressed in the character-defining features of existing campus buildings, particularly those buildings within the vicinity of the project.

7. **SUSTAINABLE DESIGN AND CONSTRUCTION**
The University of Florida builds its buildings to last and promotes environmental quality and resource conservation through sustainable design, "green" architecture, and recycling in its physical planning and development. See the **OPR** document in section XVII of this Facilities Program for detailed, project-specific sustainability goals.

8. **UNIVERSITY COMMITTEES REVIEWS**
New construction projects located on the main campus of the University of Florida – and certain renovation projects – must be presented to the following three (3) faculty-based Committees for approval of the site plan and building exterior design at the Schematic and Design Development phases:
   - Transportation and Parking Advisory Committee (TPAC)
   - Lakes, Vegetation and Landscape Committee (LVLC)
   - University Land Use and Facilities Planning Committee (ULUFPC)

   The Architect is expected to address all review comments provided by the Committees, including the program development phase review comments included in the Section XVI of this facilities program.

9. **QUALITY**
The University expects the facility to convey an impressive, state-of-the-art, and first-class image to current and prospective faculty, staff, and students, as well as visiting faculty, alumni, and private industry. At the same time, cost control, adherence to codes and standards, sustainability, and the durability and ease of maintenance are also primary considerations.

   Spaces must be technologically equipped, acoustically reliable, well lit, properly conditioned, and arranged thoughtfully in a floor plan that takes advantage of shared-use spaces while accounting for the differences between public and non-public spaces. Premium finishes shall be used in highly visible, public areas, while more standard materials shall be incorporated into less public, staff-oriented work spaces.

   The designers' experience with similar facilities should allow it to confirm that the facility is constructed in accordance with the Basis of Design, the construction documents, applicable codes, and the UF Design & Construction Standards as part of Basic (Construction Administration) Services. Major building systems, including mechanical components and the building envelope, will be commissioned by an independent consultant, with whom the design team shall plan and coordinate its efforts.

D. CONSTRUCTION DELIVERY METHOD

Using F.A.C. 6C-14.0055(2) as a reference guideline, the following responses are presented for justification of **Construction Management** as the method of project delivery:

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The F.A.C. 6C-14.0055.(2) is used as reference guideline and the following responses are presented for University approval for the selection of Construction Management as the project delivery method:

(2).(a): Size of the project is sufficiently large and/or complex to require major emphasis on the qualification of the contractor to provide specific expertise in highly specialized cost estimating, value engineering, and scheduling during the design process with continuity of construction management through both design and construction phases.	Yes for an Athletic support facility.
(2).(b): The initial construction funding is appropriated and construction is begun with the expectation of substantial appropriation in subsequent years, thereby making it advantageous to retain a single contractor for the duration of the project.	N/A
(2).(c): The project is an alteration of an occupied facility which requires working around or relocating occupants while keeping the facility fully operational.	Yes.
(2).(d): The project is a repair or renovation where the conditions requiring correction cannot be determined and specified without extensive contractor involvement in the removal and examination process during the design phase.	Yes.
(2).(e): The timely completion of the project is critical to the University's ability to repay debt services or to meet grant obligations.	N/A

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SPACE NEEDS ASSESSMENT

A. FACILITIES DEFICIENCIES

The current Ben Hill Griffin Stadium facility requires upgrades to meet accessible guidelines, improve attendee comfort, repair damaged infrastructure, provide advanced technology, and improve concourse areas. In addition, areas of the south endzone will be studied to evaluate the addition of a Club area and/or Loge Box seating. If feasible, the construction of these improvements will be included.

B. ALTERNATIVE SOLUTIONS

This is the only football stadium on campus, therefore maintaining and upgrading the current facility is required and there are no other practical alternative solutions.

C. QUANTITATIVE ANALYSIS OF PROGRAM SPACES

The use of the existing facility space was used to determine the proposed upgrades.

D. PROJECT AND SURVEY RECOMMENDATIONS

N/A

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PROGRAM AREA

A. PROGRAM AREA TABLE

The main seating bowl upgrades is difficult to define and not applicable for programming. The south endzone improvements are to be determined during the study phase.

B. SUMMARY BY SPACE CATEGORY

The main seating bowl upgrades is difficult to define and will not change space area. The south endzone improvements are to be determined during the study phase

C. FEASIBILITY STUDY

See other documents.

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CODES AND STANDARDS

Design and construction at the University of Florida is regulated, reviewed, and permitted by the Division of Environmental Health & Safety (EH&S), which serves as the Authority Having Jurisdiction. Consult the EH&S website (**www.ehs.ufl.edu/buildcode/codes.htm**) for a list of applicable codes. Early in the program verification and conceptual design process, the Professional(s) shall discuss and confirm these and other applicable codes with EH&S. During design and construction phases of projects EH&S serves as the AHJ for all applicable codes and standards as adopted by the Florida Legislature, Florida Building Commission, and Office of State Fire Marshal.

Effective January 1, 2021 the Seventh Edition (2020) of the Florida Building Code: Building, Mechanical, Plumbing, Existing, Fuel Gas, Energy Conservation, Accesibility has been adopted by the state. Effective January 1, 2021 the Seventh Edition (2020) of the Florida Fire Prevention Code was adopted by the State Fire Marshal.

All drawings submitted shall clearly indicate the codes and standards used for the design of the project along with the appropriate edition year. Plans that do not include this information will be rejected and the issuance of the Building Permit will be delayed until such information is recorded on the permit plans. It is not acceptable to list the codes, standards and edition years in the specifications.

Additionally, the following rules or standards apply to the design and construction of UF projects:

- ADA Standards for Accessible Design (www.usdoj.gov/crt/ada/adastd94.pdf)
- HUD Fair Housing Act for Multi-Family residential Construction
- Florida Public Service Commission, installation and replacement of public telephones
- State Traffic Operations Engineer, FDOT, government parking facilities
- Agency for Health Care Administration, hospital and health care facilities
- DOE Space Standards, Chapter 6A-2, Florida Administrative Code
- Rules of the Florida Department of Environmental Protection
- Regulation of OSHA and the Environmental Protection Agency
- Licensing regulations of Asbestos Consultants, the Florida Department of Business and Professional Regulation
- Lead-based paint minimum standards of the Department of Housing and Urban Development
- Florida Standard for Radon-Resistant New Commercial Building Construction
- http://www.doh.state.fl.us/environment/community/radon/commcnst.htm
- Florida Standard For Mitigation of Radon In Existing Buildings
- http://www.doh.state.fl.us/environment/community/radon/mtstndrd.htm
- Rules of the St. Johns River Water Management District (or other agency with jurisdiction).
- American Society of Heating , Refrigerating and Air Conditioning Engineers (ASHRAE) handbooks
- American Conference of Governmental Industrial Hygienists Ventilation Manual
- American Society of Mechanical Engineers' Unfired Pressure vessel Code
- American Standards Institute standards (ANSI)
- Leadership in Energy and Environmental Design (LEED) Standards – www.usgbc.org
- City and County for off-campus projects not included in the adopted Campus Master Plan.
- Coordination with local utilities service provider for projects not served by the Campus utilities system.
- Developments of Regional Impacts for projects not included in the adopted Campus Master Plan.
- Department of Business and Professional Regulation, Division of Hotel and restaurants, Bureau of Elevator Inspection for elevator inspections and permit
- National Pollutant Discharge Elimination System (NPDES) permit for one acre or more of disturbed site in accordance with 62-621.300 (4), FAC. NPDES Stormwater Notification Center, Department of Environmental Protection (DEP)
- St. Johns River Water Management District (SJRWMD) campus-wide stormwater permitting process. SJRWMD permitting and reviews shall be coordinated through the University's SJRWMD Coordinator at Facilities Services.
- Local stormwater permitting agency having jurisdiction over sites not covered in the SJRWMD campus-wide permit.
- University of Florida Design and Construction Standards (www.facilities.ufl.edu/dcs/index.htm)
- University of Florida Telecommunication Construction Standard
- (http://net-services.ufl.edu/infrastructure/)
- Low Voltage Contractor Pre-qualification Requirement & Pre-qualified Contractor List
- (http://net-services.ufl.edu/infrastructure/teleco_standards.html)
- University of Florida Design Services Guide (http://www.facilities.ufl.edu/pdf/DSG.pdf)
- University of Florida General Terms & Conditions

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Project: UAA-62 Ben Hill Griffin Stadium Facility Upgrades - Revised Program **8/2/2021**

CONSTRUCTION MANAGEMENT PROJECT DELIVERY METHOD

Design Duration	85.1 Weeks	Punchlist Phase	15.6 weeks	
Construction Duration	101.6 Weeks			

GOALS AND MILESTONES	START DATE	END DATE		DURATION
PROGRAM APPROVAL	**12-Jul-2021**	**04-Oct-2021**	**12 weeks**	**0.2 Years**
Revised Facilities Program Development	12-Jul-2021	19-Jul-2021	1.0 weeks	
UF/UAA Program Approval	19-Jul-2021	04-Oct-2021	11.0 weeks	
PROFESSIONAL SELECTION PROCESS	**02-Aug-2021**	**01-Nov-2021**	**13 weeks**	**0.2 Years**
Advertise for A/E services	02-Aug-2021	01-Sep-2021	4.3 weeks	
A/E Services Short-list	01-Sep-2021	13-Sep-2021	1.8 weeks	
A/E Services Interviews	27-Sep-2021	01-Oct-2021	0.5 weeks	
A/E Services Selection Approval	01-Oct-2021	18-Oct-2021	2.4 weeks	
Contract Negotiations with A/E Services	18-Oct-2021	01-Nov-2021	2.0 weeks	
PRE-DESIGN PHASE	**01-Nov-2021**	**03-Jan-2022**	**9 weeks**	**0.2 Years**
Letter of Activation	01-Nov-2021	05-Nov-2021	0.6 weeks	
Existing Building Information	05-Nov-2021	29-Nov-2021	3.4 weeks	
Study Limits Definition	29-Nov-2021	03-Jan-2022	5.0 weeks	
CM SELECTION PROCESS	**16-Aug-2021**	**29-Nov-2021**	**15 weeks**	**0.3 Years**
Advertise for CM	16-Aug-2021	15-Sep-2021	4.3 weeks	
CM Short-list	15-Sep-2021	27-Sep-2021	1.7 weeks	
CM Interviews	11-Oct-2021	15-Oct-2021	0.6 weeks	
CM Selection Approval	15-Oct-2021	01-Nov-2021	2.4 weeks	
Contract Negotiations with CM	01-Nov-2021	29-Nov-2021	4.0 weeks	
DESIGN PHASE - Phase 1: Scoreboard & Sound System	**05-Nov-2021**	**25-Jul-2022**	**37 weeks**	**0.7 Years**
Advanced Schematic Design (ASD)	05-Nov-2021	03-Jan-2022	8.4 weeks	
ASD review and approval/Budget	03-Jan-2022	24-Jan-2022	3.0 weeks	
University Committees Review of Advanced Schematic Design	03-Jan-2022	25-Feb-2022	7.6 weeks	
60% Construction Documents (60% CD)	24-Jan-2022	21-Mar-2022	8.0 weeks	
60% CD review and approval/Budget Reconciliation	21-Mar-2022	18-Apr-2022	4.0 weeks	
University Committees Review of 60% CD	21-Mar-2022	06-May-2022	6.6 weeks	
100% Construction Documents (100% CD)	18-Apr-2022	30-May-2022	6.0 weeks	
100% CD review and approval/Budget Reconciliation	30-May-2022	27-Jun-2022	4.0 weeks	
Conformed Construction Documents (CCD)	27-Jun-2022	11-Jul-2022	2.0 weeks	
CCD review and approval	11-Jul-2022	25-Jul-2022	2.0 weeks	
CONSTRUCTION PHASE - Phase 1: Scoreboard & Sound System	**01-Aug-2022**	**31-Jul-2023**	**52 weeks**	**1.0 Years**
GMP Preparation	30-May-2022	05-Jul-2022	5.2 weeks	
GMP Review and Approval	05-Jul-2022	01-Aug-2022	3.9 weeks	
Notice to Proceed	01-Aug-2022	08-Aug-2022	1.0 weeks	
Bid Package Submittal and Review	08-Aug-2022	22-Aug-2022	2.0 weeks	
Advertise Bid Packages & Award	22-Aug-2022	10-Oct-2022	7.0 weeks	
Construction - Scoreboard & Sound System (on-site work start 11/28)	10-Oct-2022	05-Jun-2023	34.0 weeks	
Contractor Punch & Clean	05-Jun-2023	26-Jun-2023	3.0 weeks	
Substantial Completion Inspection	26-Jun-2023	30-Jun-2023	0.6 weeks	
Punchlist Corrective Work	30-Jun-2023	24-Jul-2023	3.4 weeks	
Final Completion Inspection	24-Jul-2023	31-Jul-2023	1.0 weeks	
Owner Occupancy	31-Jul-2023	31-Jul-2023	0.0 weeks	
DESIGN PHASE - Phase 2: Seating Bowl, South Endzone & Concourses	**03-Jan-2022**	**21-Aug-2023**	**85 weeks**	**1.6 Years**
Programming & Conceptual Design	03-Jan-2022	28-Mar-2022	12.0 weeks	
Programming & Conceptual Design review and approval/Budget	28-Mar-2022	25-Apr-2022	4.0 weeks	
Advanced Schematic Design (ASD)	25-Apr-2022	05-Jul-2022	10.2 weeks	
ASD review and approval/Budget	05-Jul-2022	01-Aug-2022	3.9 weeks	
University Committees Review of Advanced Schematic Design	05-Jul-2022	09-Sep-2022	9.5 weeks	
Design Development (DD)	01-Aug-2022	24-Oct-2022	12.0 weeks	
DD review and approval/Budget Reconciliation	24-Oct-2022	28-Nov-2022	5.0 weeks	
University Committees Review of Design Development	24-Oct-2022	09-Dec-2022	6.6 weeks	
60% Construction Documents (60% CD)	28-Nov-2022	20-Mar-2023	16.0 weeks	
60% CD review and approval/Budget Reconciliation	20-Mar-2023	17-Apr-2023	4.0 weeks	
100% Construction Documents (100% CD)	17-Apr-2023	12-Jun-2023	8.0 weeks	
100% CD review and approval/Budget Reconciliation	12-Jun-2023	10-Jul-2023	4.0 weeks	
Conformed Construction Documents (CCD)	10-Jul-2023	07-Aug-2023	4.0 weeks	
CCD review and approval	07-Aug-2023	21-Aug-2023	2.0 weeks	
CONSTRUCTION PHASE - Phase 2: Seating Bowl, South Endzone & Concourses	**21-Aug-2023**	**02-Aug-2024**	**50 weeks**	**1.0 Years**
GMP Preparation	12-Jun-2023	24-Jul-2023	6.0 weeks	
GMP Review and Approval	24-Jul-2023	21-Aug-2023	4.0 weeks	
Notice to Proceed	21-Aug-2023	05-Sep-2023	2.1 weeks	
Bid Package Submittal and Review	05-Sep-2023	11-Sep-2023	0.9 weeks	
Advertise Bid Packages & Award	11-Sep-2023	30-Oct-2023	7.0 weeks	
Construction - Seating Bowl, South & East Concourses (on-site work start 11/27)	30-Oct-2023	10-Jun-2024	32.0 weeks	
Construction - South Endzone (on-site work start 11/27)	30-Oct-2023	10-Jun-2024	32.0 weeks	
Contractor Punch & Clean	10-Jun-2024	24-Jun-2024	2.0 weeks	
Substantial Completion Inspection	24-Jun-2024	28-Jun-2024	0.6 weeks	
Punchlist Corrective Work	28-Jun-2024	29-Jul-2024	4.4 weeks	
Final Completion Inspection	29-Jul-2024	02-Aug-2024	0.6 weeks	
Owner Occupancy	02-Aug-2024	02-Aug-2024	0.0 weeks	
Total	**12-Jul-2021**	**02-Aug-2024**	**160 weeks**	**3.1 Years**

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PROJECT SPACE AND BUDGET SUMMARY

The total project budget or construction budget has not been defined pending the completion of the South Endzone study. The budgets will be established during the programming/conceptual phases.

The University expects the A/E to develop design and construction documents that are consistent with the established budget, facilities program, OPR, UF Design & Construction Standards, and Design Services Guide. This obligation is mandatory. If estimates by a CM, the A/E or its cost consultant, or a 3rd-party cost consultant indicate a construction cost that exceeds the budget, the A/E shall work with the University and its consultants to modify the design to conform to the budget. However, the design may not vary from the program or the UF Design & Construction Standards without University approval.

During the construction documents phase, provisions for additive alternates, as required, shall be included to ensure that the basic program scope is realized and to maximize opportunities for the inclusion of long-term infrastructure flexibility.

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Owner's Project Requirements (OPR)

17.1 Introduction
17.2 Owner Requirements Covered Elsewhere
17.3 Project-Specific Design Goals
17.4 Occupancy & Use
17.5 Sustainability and Energy Efficiency
17.6 Building Site
17.7 Transportation & Parking
17.8 Building Envelope
17.9 Indoor Environmental Quality
17.10 Emergency or Backup Power
17.11 Telecommunications and A/V Systems
17.12 Security
17.13 Hazardous Materials
17.14 Furnishings & Equipment
17.15 Commissioning, Inspection, and Q.A.
17.16 Construction Completion & Turnover
17.17 Operation & Maintenance
17.18 Owner Training
17.19 Post-Occupancy and Warranty

17.1 INTRODUCTION

Along with the other sections of this Facilities Program, this Owner's Project Requirements (OPR) document outlines functional requirements of the project and expectations of how the facility and its systems will be used and operated. The OPR is required for LEED or other sustainable program certification of the project, but also serves three broader vital purposes:

1. Provides the design team with information necessary to develop the Basis of Design (BOD) during program verification and/or schematic design, which serves as a "road map" for development of the design and construction documents.

2. Provides the commissioning (Cx) team with tangible benchmarks to measure success & quality and confirm that the building and systems constructed align with the University's expectations and requirements.

3. Serves, along with the BOD and contractor deliverables such as "as-built" documents, as the foundation for the Systems Manual outlined below.

The Owner will develop and update the OPR through program verification and schematic design, or until the Cx consultant is selected. The Cx consultant will then assume responsibility for refining and augmenting the OPR throughout design, construction, and the post-occupancy period of one year following Substantial Completion of construction. As decisions are made during the life of the project, this document shall be updated to reflect the current requirements of the University.

The Owner is the University of Florida Board of Trustees (UF). Primary users and stakeholders include the University Athletic Association (UAA), Student Athletes, Coaches, support staff, maintenance personnel, etc. The entity responsible for project management and delivery is UF Planning Design &

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Construction (PDC). The organization responsible for operation and maintenance of the facility is the University Athletic Association (UAA).

17.2 OWNER REQUIREMENTS COVERED ELSEWHERE

Many components of, or related to, the OPR are covered elsewhere in the Facilities Program, including:

- Detailed project history, background, and justification – Section IV
- General planning and design objectives – Section IV
- Project space types, sizes, and adjacencies – Section V
- Applicable codes – Section VII
- Project schedule and budget – Sections VIII and IX

Additional requirements, expectations, and standards for UF projects are detailed in the following:

- UF Design & Construction Standards – www.facilities.ufl.edu
- Design and Commissioning Services Guide – www.facilities.ufl.edu
- UF Energy Policies, Rates, Provisions – www.ppd.ufl.edu/pdf/UFUtilityPolicy.pdf
- UF Environmental Health & Safety – www.ehs.ufl.edu

17.3 PROJECT-SPECIFIC DESIGN GOALS

1. Flexibility and Future Expansion
   - See the Facility Program
2. Quality and Context
   - See the Facility Program

17.4 OCCUPANCY & USE

Hours consistent with the applicable sports program.

17.5 SUSTAINABILITY and ENERGY EFFICIENCY

As part of an overall commitment to sustainability and a goal of achieving "carbon neutrality" by the year 2025, the University of Florida builds its facilities to last for decades while promoting environmental stewardship and resource conservation through participation in sustainable design and construction practices. UF prides itself has having the most 3rd-party sustainable building certified projects than any other public higher education institution. Each project ensures an integrated team-based approach towards establishing efficiency goals in both design and construction in order to deliver a high-performance buildings. 3rd-party sustainable building certification programs include USGBC's LEED, GBI'S Green Globes, Florida Green Building Coalition, and Energy Star.

University projects must achieve no lower than a LEEDv4.0 Gold level certification or equivalent sustainable program.

In addition to the overall goal of sustainable building certification, this project is to achieve many high priority sustainability goals including:

- Continuous Sustainability discussions with key stakeholders – Participants from all disciplines, including University's Sustainable Building Coordinator, are to attend a meeting to discuss the project's sustainability approach, at least during the following project phases;

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- **Concept Design** – Discuss project scope, scale and relationships between various sustainability initiatives.
- **Design Development** – Discussing details of mechanical system and design impacts on energy and cost of ownership.
- **100% Construction Documents** – Ensuring all sustainable design credits have been fulfilled.
- **Throughout Construction** – Ensure the project team continues to strive to meeting sustainable certification and are on track for other sustainability goals identified below.

- Benchmarking and designing for energy efficiency – Before any substantial design occurs, the project team must establish an site specific energy benchmark for the design to strive towards. Benchmarking can either be established through the EPA Target Finder, Labs21 or the Architecture 2030 ZeroTool. All parameters (i.e. building size, usage type and associated area, days and hours of operation, FTE's, etc.) must be filled in order to create a baseline and targeted EUI. Targeted EUI must either meet either the established Architecture 2030 goals or the below EPA Target Finder Goals
  - 2019 – 20% better than median
  - **2020 – 30% better than median**
  - 2025 – 40% better than median
  - 2030 – 50% better than median
- During the inception of the design, the project team is to explore various energy conservation measures including, but not limited to heat/enthalpy wheels, energy recovery units, "setback" modes, variable refrigerant flow systems, electronically commutated motors (ECMs), pre-cooling coils, coil coating, variable and multi-stage compressors, building shading design, hydronic vertical stacked fan coils, increased building surface reflectivity, construction assemblies with lower infiltration rates, renewable technologies, various glazing properties, EnergyStar appliances and specialty equipment that improve partial load efficiency conditions, etc.

- Utilization of Lifecycle costing (LCC) - Assess and improve cost of ownership decision making through cost benefit such as LCC. These models are to include a list of assumptions to validate ECM claims.

- Waste Diversion – all new construction and major renovation projects above $500,000 in construction costs are to develop and execute a waste management plan with the goal of diverting at least 75% of construction waste, by weight, from our local landfills. Material reuse and repurposing is encouraged for materials being removed from renovations. Project teams are expected to establish a waste management plan and fill out and update a waste log on a monthly basis.

- Utilization of local building materials and FSC-certified wood.

The Basis of Design (BOD) shall establish specific plans and strategies for achieving these goals, and the construction documents shall include requirements for 3rd-party sustainable certification submittals and sustainable construction practices and techniques, including:

- Segregated collection and recycling of construction waste
- Proper erosion and sedimentation control techniques
- Procurement and use of low-VOC, regionally-available, and high recycled content materials

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Owner's Project Requirements (OPR)

The enclosed checklist provides the University's pre-design estimate of the probability of securing each credit – yes, maybe, or no. During program verification and/or conceptual schematic design, the project team will review and update this spreadsheet in order to confirm established project specific sustainability goals. The checklist will be continuously maintained by the University throughout design and construction as a guideline for achieving the desired certification and tracking progress and action items. Supporting information is to be uploaded in SharePoint under the Sustainability Library.

Energy Rebates and 179D – As the University demands the design and construction of a high-performance building, it too is required that the project team capitalizes on utility rebates from the University's primary electric and steam utility provider, Duke Energy Florida (DEF). Below is a available rebates for our projects on main campus. Project teams are to coordinate with the Sustainable Building Coordinator to determine the requirements necessary to obtain rebates as well as determine if rebates are available if project is located outside of main campus. If a project meets the rebate criterion, the team is then required to obtain a rebate for the project.

- Ceiling and roof insulation
- Highly-efficient single package units
- Energy recovery ventilation
- Highly-efficient heat pumps
- Cool roof
- Highly-efficient chillers
- Demand control ventilation
- Thermal energy storage

Additionally, projects may meet the 179D requirements below resulting in a tax deduction with the project design professional. If the designer defers program, then the University will coordinate with the builder for tax deduction benefit. The University will participate in the program by establishing a split-net value between the designer therefore incentivizing both entities in delivering a high-performance building.

- Projects achieving 25% energy savings in lighting compared to ASHRAE 90.1-2007 standards (building professional is to receive a tax deduction of $0.60/sf of the total project area)
- Projects achieving 15% energy savings in HVAC design compared to ASHARE 90.1-2007 standards (building professional is to receive a tax deduction of $0.60/sf of the total project area)
- Projects achieving 10% energy savings in envelope design compared to ASHRAE 90.1-2007 standards (building professional is to receive a tax deduction of $0.60/sf of the total project area)
- Projects achieving 50% energy savings combined with lighting, HVAC, and envelop design compared to ASHRAE 90.1-2007 standards (building professional is to receive a tax deduction of $1.80/sf of the total project area)

17.6 BUILDING SITE

N/A

17.7 TRANSPORTATION & PARKING

N/A

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17.8 BUILDING ENVELOPE

The exterior shall be designed to endure for at least 75 years. Selection of materials and detailing of envelope systems shall be consistent with the Florida Building Code and UF Design & Construction Standards; performance-based to allow the building to withstand weather conditions typical of North Central Florida; and esthetically consistent with the area of campus where the facility will be constructed.

Prevention of moisture intrusion is a high-priority goal applicable to all project team disciplines.

Solar transmission shall be controlled and designed in accordance with ASHRAE Standard 90.1-2004 through high-performance, low-e glazing, overhangs and external shading, and other techniques to minimize solar heat gain and maximize light transmittance for daylighting where functionally practical. Spaces in this building where daylighting is not functionally practical include:

- Locker Rooms
- Equipment Rooms
- Storage Areas

Roofs – anticipated to be flat – shall have a minimum reflectivity of 0.30 to reduce solar heat gain.

17.9 INDOOR ENVIRONMENTAL QUALITY

1. Indoor Lighting and Lighting Controls
   As required for code and sustainability compliance.

2. Thermal Comfort
   Building temperature set points should be established as 74°F – 76°F for Summer and 72°F – 74°F for Winter.

3. Ventilation and Filtration
   N/A

4. Acoustics
   N/A

5. Other Owner Requirements
   - Daylighting and views

Pre and post-occupancy IEQ/IAQ tests will be performed by UF Environmental Health & Safety (EH&S).

17.10 EMERGENCY, BACKUP, or 'CLEAN' POWER

N/A

17.11 TELECOMMUNICATIONS and AUDIO/VISUAL SYSTEMS

Wireless access shall be provided throughout the building and at any defined outdoor gathering spaces.

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17.12 SECURITY

UAA designated security and A/V systems to be coordinated with UAA personnel.

17.13 HAZARDOUS MATERIALS

1. Existing
   None known.

2. Functional
   None known.

17.14 FURNISHINGS & EQUIPMENT

All permanently installed furnishings and fixtures will be installed by the Contractor.

Building furnishings that will be Owner-furnished and installed must be coordinated with contractor-installed infrastructure, such as power and data for modular office furniture.

AEDs: One or more Automatic Electronic Defibrillators (AED) shall be installed in all new buildings and major renovations/expansions, along with signage indicating the presence of same. Project shall bear the cost of the devices, cases, cabinets, and accessories. Coordinate location(s) with UF EH&S.

17.15 COMMISSIONING, INSPECTION, and QUALITY ASSURANCE

The Commissioning (Cx) consultant will be independent of the design and construction teams, will be selected by the Design Development (DD) phase, and will be responsible for maintenance of this OPR; peer review of the design and construction documents; development of the project-specific Cx specification using the University's template "non-technical" spec; development of the project-specific Cx Plan; construction and acceptance phase commissioning and documentation; development of the facility's Systems Manual; and post-occupancy commissioning, testing, and documentation.

It is anticipated that the following building systems will be commissioned:

- Mechanical and HVAC systems
- Electrical and lighting systems
- Domestic hot water systems
- Building envelope systems
- Renewable energy systems

The following items of particular interest to the University shall be addressed and verified by the Cx consultant throughout the term of service:

1. Meeting or exceeding "Delta-T" minimums across cooling coils for campus chilled water
2. Accuracy of utilities metering and integration of same with the Building Automation System (BAS)
3. Measurement & Verification of energy usage, performance, and efficiency

Onsite inspection of life safety, code compliance, and ADA-related items will be conducted by the University's Division of Environmental Health & Safety (EH&S) and the State Fire Marshal. See www.ehs.ufl.edu for more information.

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Onsite inspection of systems and components governed by the UF Design & Construction Standards and the will be conducted by the University's Facilities Services Division (FSD). The detailed scope of Cx services shall complement these inspections to eliminate gaps or "double coverage" in field oversight.

The facility is not anticipated to be a "threshold" building as defined by the FL Building Code.

17.16 CONSTRUCTION COMPLETION and TURNOVER

Inspection, testing, and commissioning culminates in a declaration of Substantial Completion by UF. This date establishes both the beginning of the warranty period and commencement of operation and maintenance by UF. Details on the closeout of major projects can be found on the PDC website.

Move-in of occupants and their personal belongings will not take place until all Substantial Completion "punchlist" items are completed.

17.17 OPERATION & MAINTENANCE

The entity responsible for maintenance and operation of the building and its systems, beginning on the date of Substantial Completion, is the University Athletic Association (UAA).

In addition to the Cx Plan, field reports, and test reports, the Cx consultant's primary deliverable is a Systems Manual as required for LEED E/A Credit 3 (Enhanced Commissioning). This manual provides the University with a single source of information and instructions for proper operation and maintenance of primary building systems. As opposed to equipment-oriented "O&M manuals," the Systems Manual is to be *systems-oriented* to provide operators with easy access to both narrative and technically detailed reference material, descriptions, diagrams, schedules, and other information on stand-alone and, particularly, integrated systems.

Like the OPR and BOD, the Systems Manual should be a living document. Unlike the OPR and BOD, though, the Systems Manual should evolve throughout the life of the building – complied by the Cx from documentation developed by the owner, design team, contractors, and the Cx process itself, then turned over for perpetual use and upkeep by building operators and future consultants and contractors throughout the building's life.

17.18 OWNER TRAINING

Onsite training for the Owner – whether operators/maintainers or users/occupants – shall include a description and overview of systems, not just the components and equipment that comprise each system.

Training – which is ideally held in conjunction with commissioning – should include general orientation and reviews of the written O&M instructions, relevant health and safety issues or concerns, operation in all possible modes, preventive maintenance, and common troubleshooting problems & solutions.

Building systems that the *maintenance entity* shall be trained on include:

- HVAC systems
- BAS/controls
- Electrical systems

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- Lighting controls

Building systems that the *occupants/users* shall be trained on include:
- Lighting controls
- Audio/Visual (A/V) systems

Most training shall be completed prior to Substantial Completion, and all sessions shall be videotaped and converted to DVD format for the Owner's use.

17.19 POST-OCCUPANCY and WARRANTY

The Cx consultant, CM/GC, and all subcontractors whose systems were commissioned shall meet with the Owner's O&M staff quarterly during the first year after Substantial Completion to offseason test, optimize, and otherwise troubleshoot all commissioned systems.

Also, an onsite meeting will be conducted 10-11 months after Substantial Completion to review performance and quality of the facility with all effected parties – UF occupants & users, O&M staff, the design team, and the contractor and its subcontractors.

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BEN HILL GRIFFIN STADIUM

UNIVERSITY OF FLORIDA
WEST SIDELINE STUDY
SEPTEMBER !", ," #!$

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University of Florida Ben Hill Griffin Stadium
West Sideline Investigation
HOK

Wednesday, September 12, 2018

Note: Seat counts indicated below are approximate and may vary upon further investigation.

LOWER BOWL		Seat					Seat Count			
		Tread Depth	*Width*	*Type*	*Aisle Width*	*Other/Notes*	*General*	*ADA/Companion*	*Total*	*Delta*
Existing		25"	16.8"	bench	36"		9,554	0	**9,554**	-
Scenario	**1**	25"	16.8"	bench	48"	calculated value	9,204	0	**9,204**	350
	2	25"	19"	bench	48"		6,747	88	**6,835**	2,719
	3	33"	19"	bench	48"	add cross aisle and overbuild existing lower bowl	5,087	88	**5,175**	4,379
	4	33"	22"	chairback	48"	add cross aisle and overbuild existing lower bowl	4,402	88	**4,490**	5,064
	5	33"	24"	chairback	48"	add cross aisle and overbuild existing lower bowl	4,017	88	**4,105**	5,449

UPPER BOWL		Seat					Seat Count			
		Tread Depth	*Width*	*Type*	*Aisle Width*	*Other/Notes*	*General*	*ADA/Companion*	*Total*	*Delta*
Existing		25"	16.8"	bench	36"		16,312	0	**16,312**	-
Scenario	**1**	25"	16.8"	bench	48"	calculated value	15,662	0	**15,662**	650
	2	25"	19"	bench	48"		12,958	0	**12,958**	3,354
	3	25"	19"	bench	48"	add cross aisle and overbuild existing lower bowl	11,959	0	**11,959**	4,353

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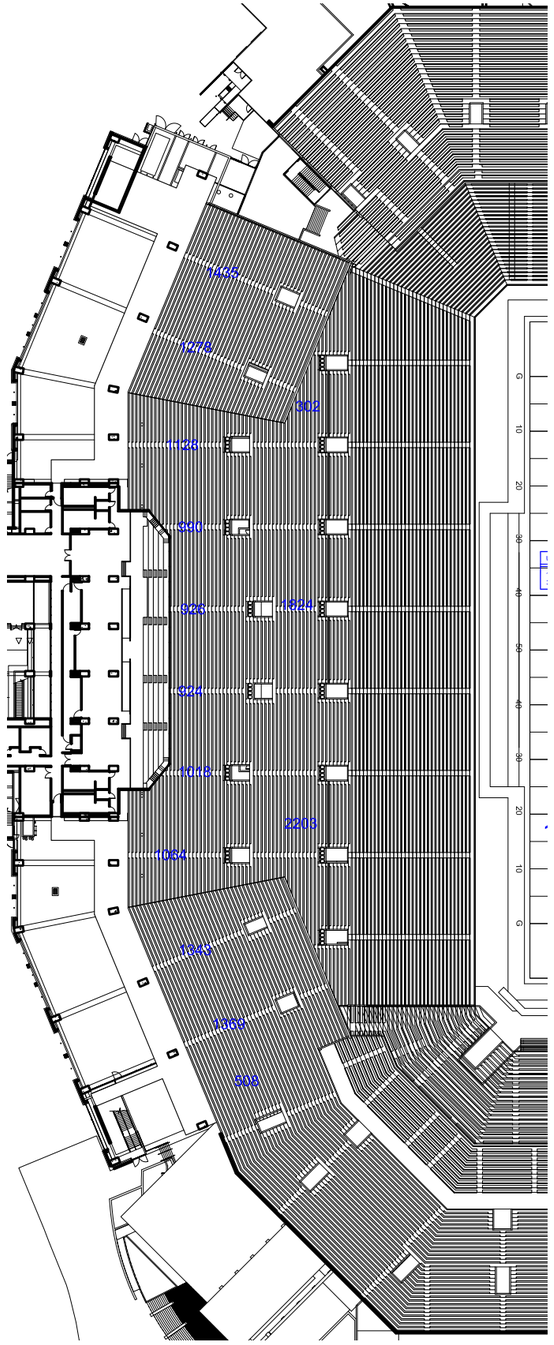

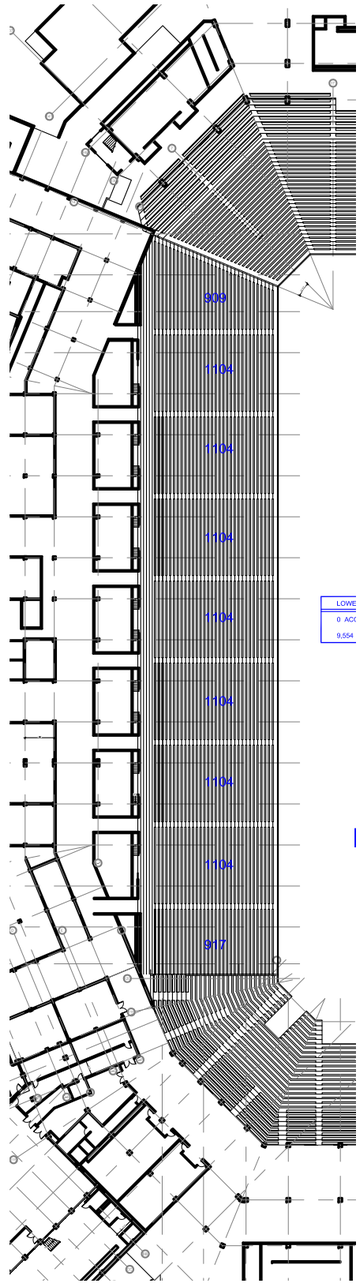

LOWER BOWL			EXISTING	9,554
TREAD DEPTH	SEAT WIDTH	AISLE WIDTH	SEAT COUNT	DELTA
25"	16.8"	36"	9,554	-

UPPER BOWL			EXISTING	16,312
TREAD DEPTH	SEAT WIDTH	AISLE WIDTH	SEAT COUNT	DELTA
25"	16.8"	36"	16,312	-

TOTALS	25,866	-

EXISTING CONDITIONS

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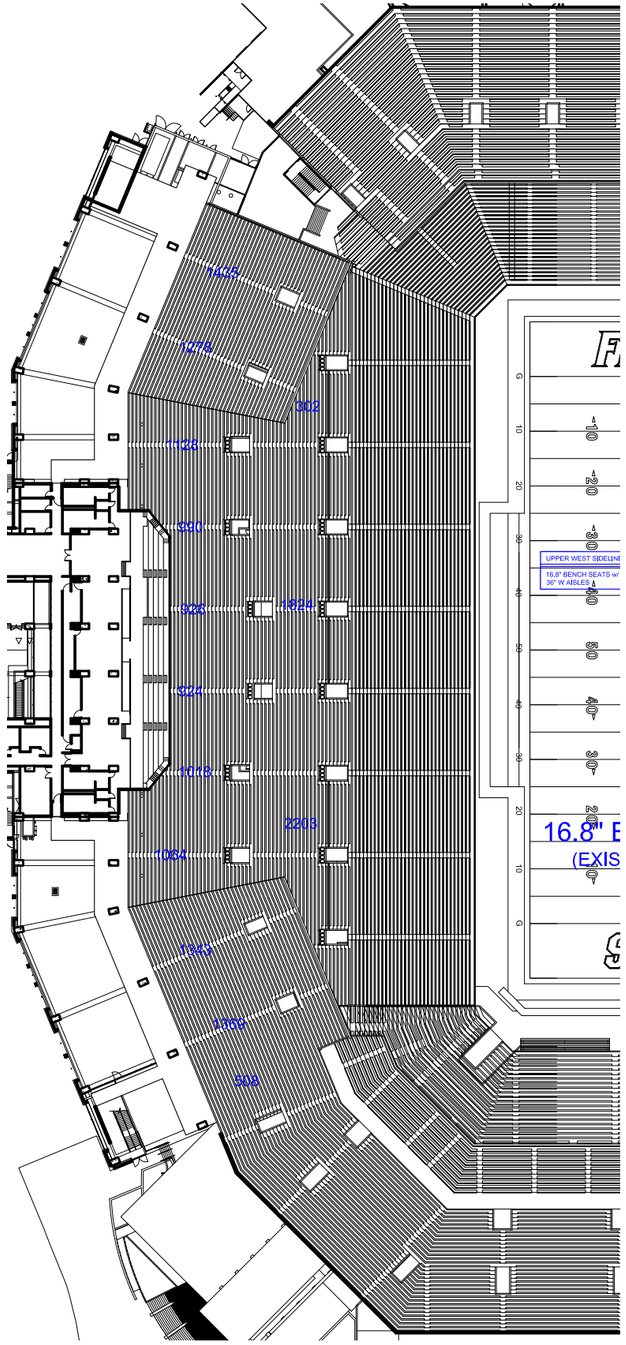

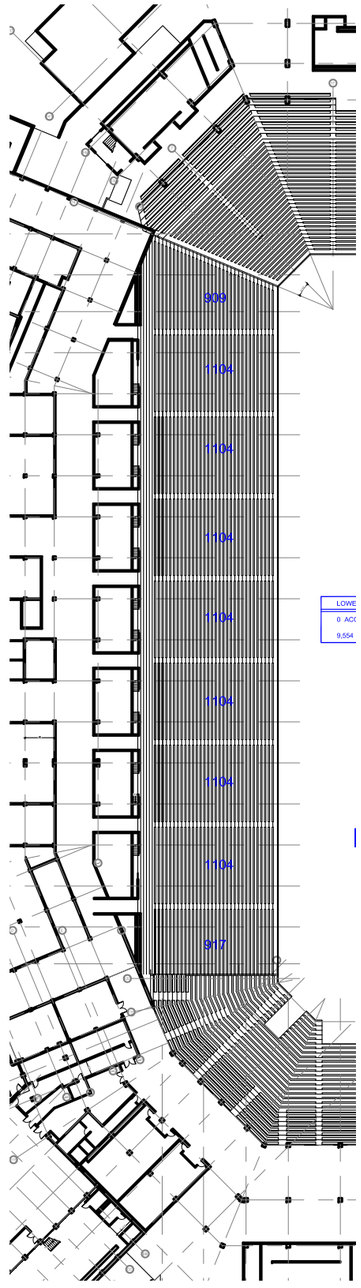

LOWER BOWL			EXISTING	9,554
TREAD DEPTH	SEAT WIDTH	AISLE WIDTH	SEAT COUNT	DELTA
25"	16.8"	48" TYP	9,204	350

UPPER BOWL			EXISTING	16,312
TREAD DEPTH	SEAT WIDTH	AISLE WIDTH	SEAT COUNT	DELTA
25"	16.8"	48" TYP	15,662	650

TOTALS	24,866	1,000

SCENARIO 1
INCREASE AISLE WIDTH FROM 36" TO 48"

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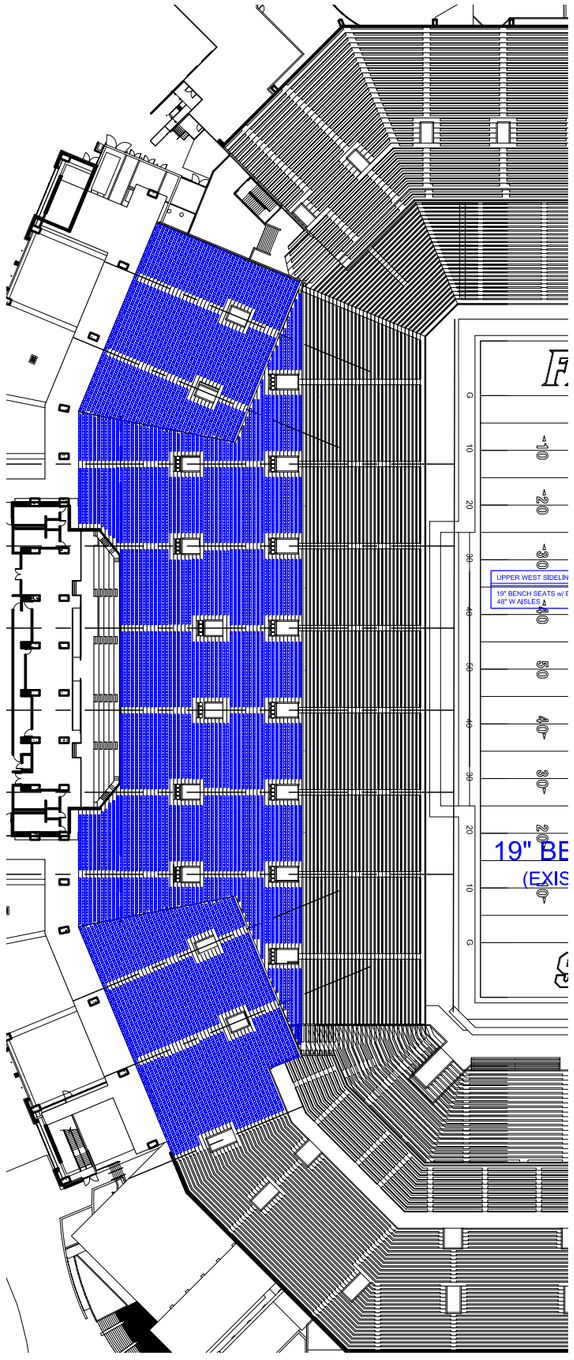

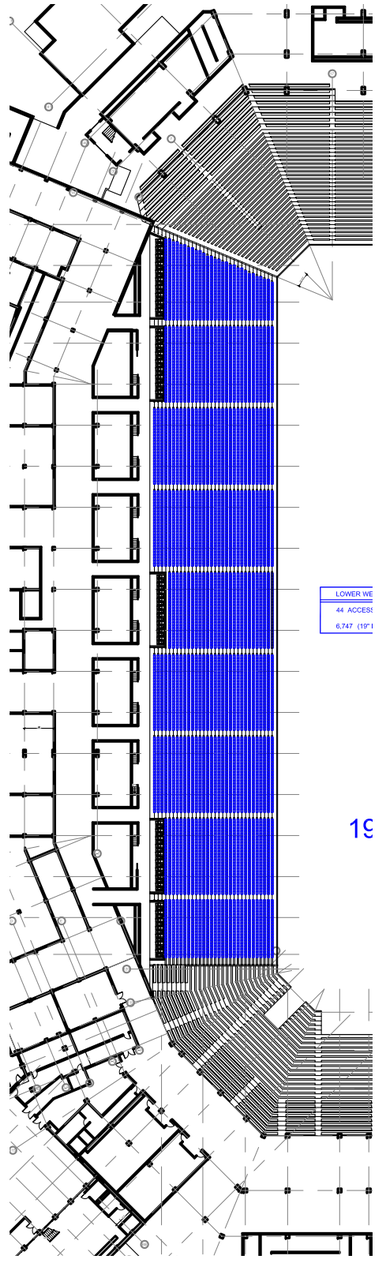

LOWER BOWL			EXISTING	9,554
TREAD DEPTH	SEAT WIDTH	AISLE WIDTH	SEAT COUNT	DELTA
25″	19″	48″ TYP	6,835	2,719

UPPER BOWL			EXISTING	16,312
TREAD DEPTH	SEAT WIDTH	AISLE WIDTH	SEAT COUNT	DELTA
25″	19″	48″ TYP	12,958	3,354

TOTALS	19,705	6,073

SCENARIO 2

INCREASE AISLE WIDTH FROM 36″ TO 48″ + INCREASE SEAT WIDTH TO 19″

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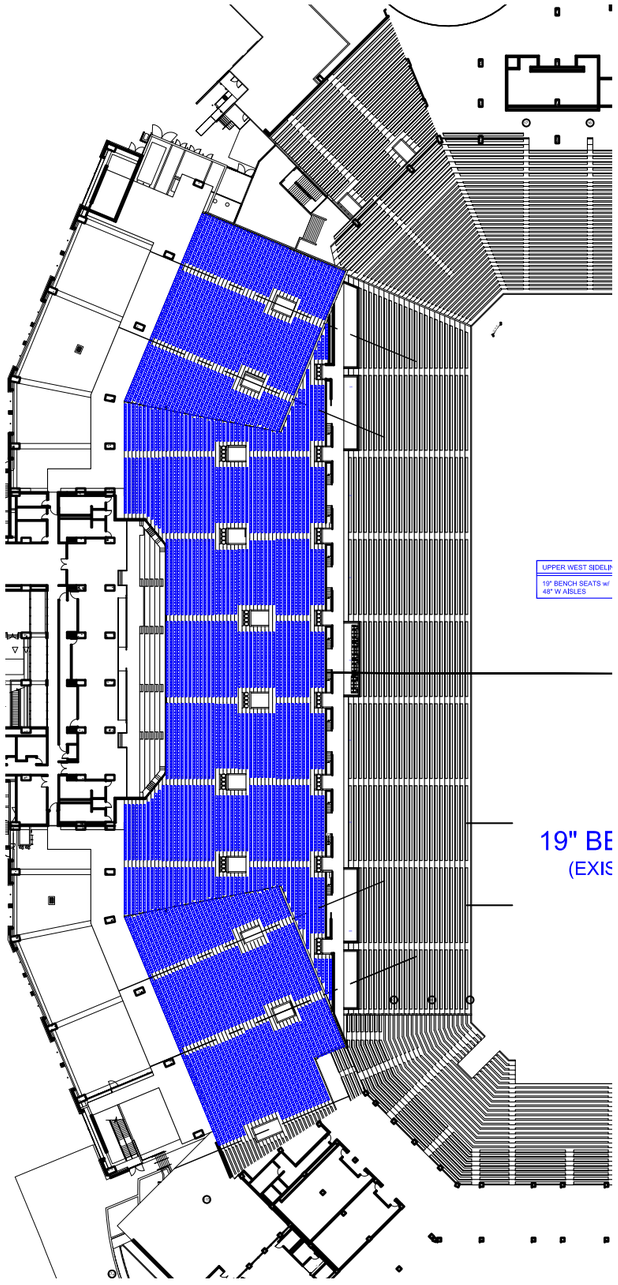

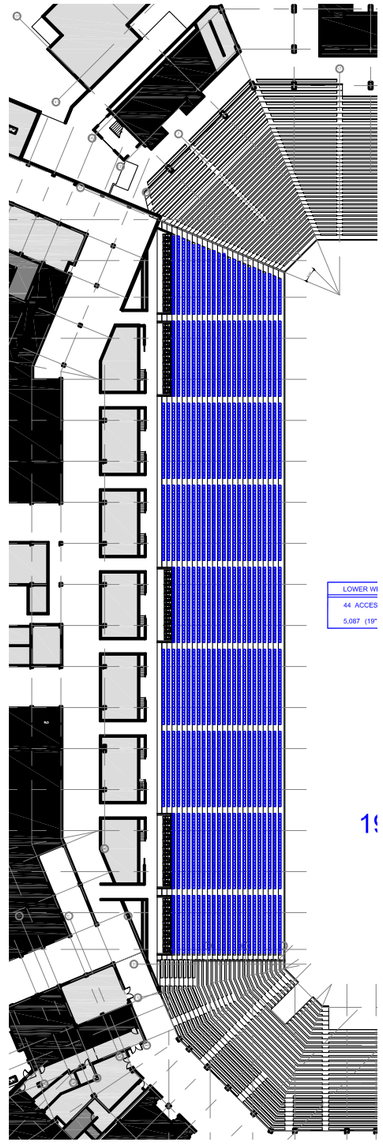

LOWER BOWL			EXISTING	9,554
TREAD DEPTH	SEAT WIDTH	AISLE WIDTH	SEAT COUNT	DELTA
33"	19"	48" TYP	5,715	4,379

UPPER BOWL			EXISTING	16,312
TREAD DEPTH	SEAT WIDTH	AISLE WIDTH	SEAT COUNT	DELTA
25"	19"	48" TYP	11,959	4,353

TOTALS	17,674	8,732

SCENARIO 3

LOWER: INCREASE TREAD DEPTH TO 33" + ADD INTERMEDIATE CROSS AISLE

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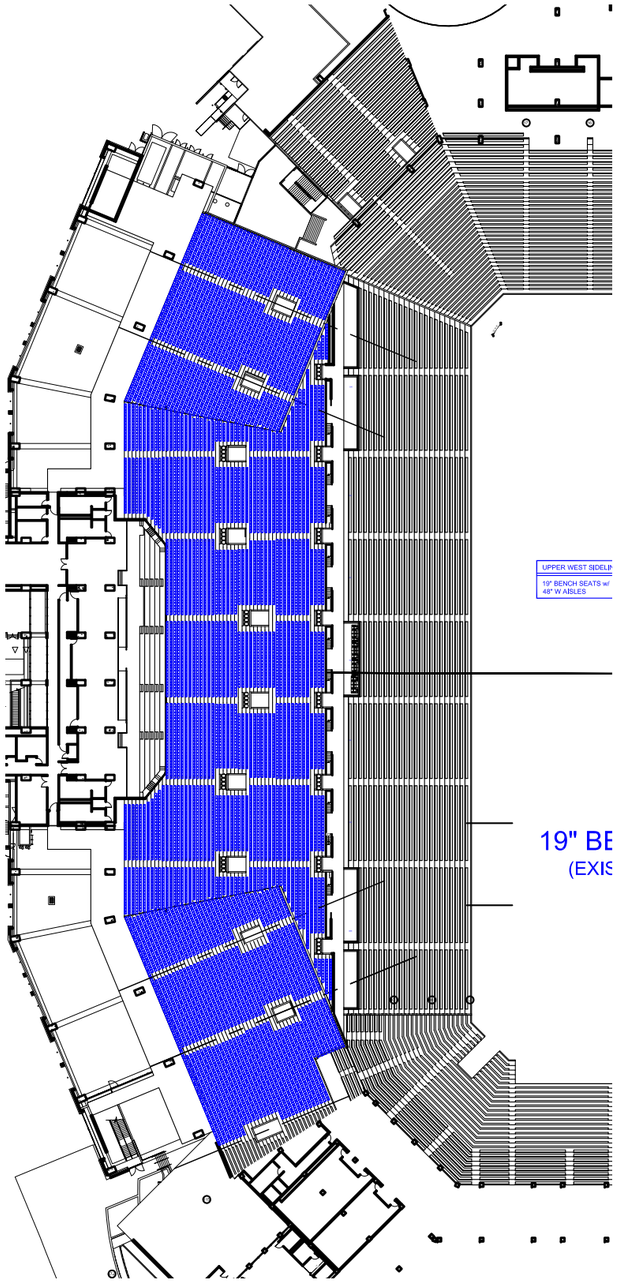

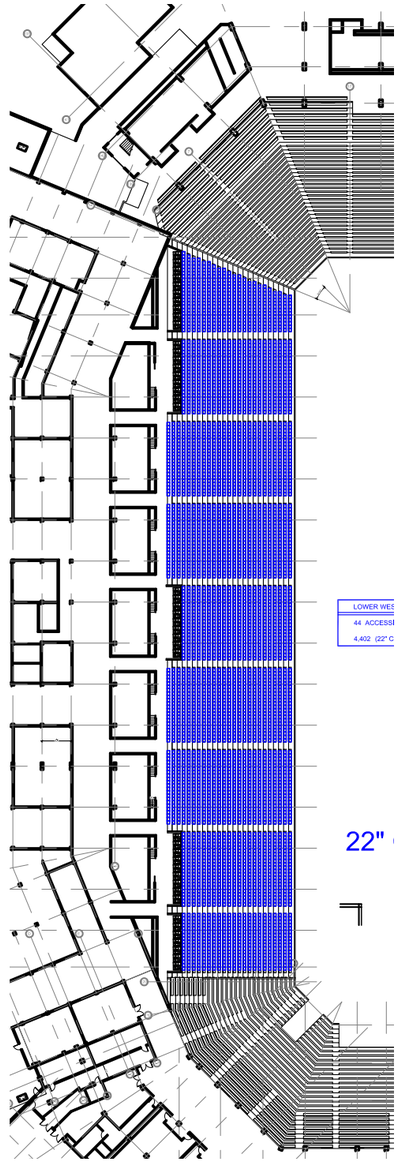

LOWER BOWL			EXISTING	9,554
TREAD DEPTH	SEAT WIDTH	AISLE WIDTH	SEAT COUNT	DELTA
33"	22"	48" TYP	4,490	5,064

UPPER BOWL			EXISTING	16,312
TREAD DEPTH	SEAT WIDTH	AISLE WIDTH	SEAT COUNT	DELTA
25"	19"	48" TYP	11,959	4,353

TOTALS	16,361	9,417

SCENARIO 4
LOWER BOWL MODIFICATIONS + INTRODUCTION OF CHAIRBACK SEATING (22")

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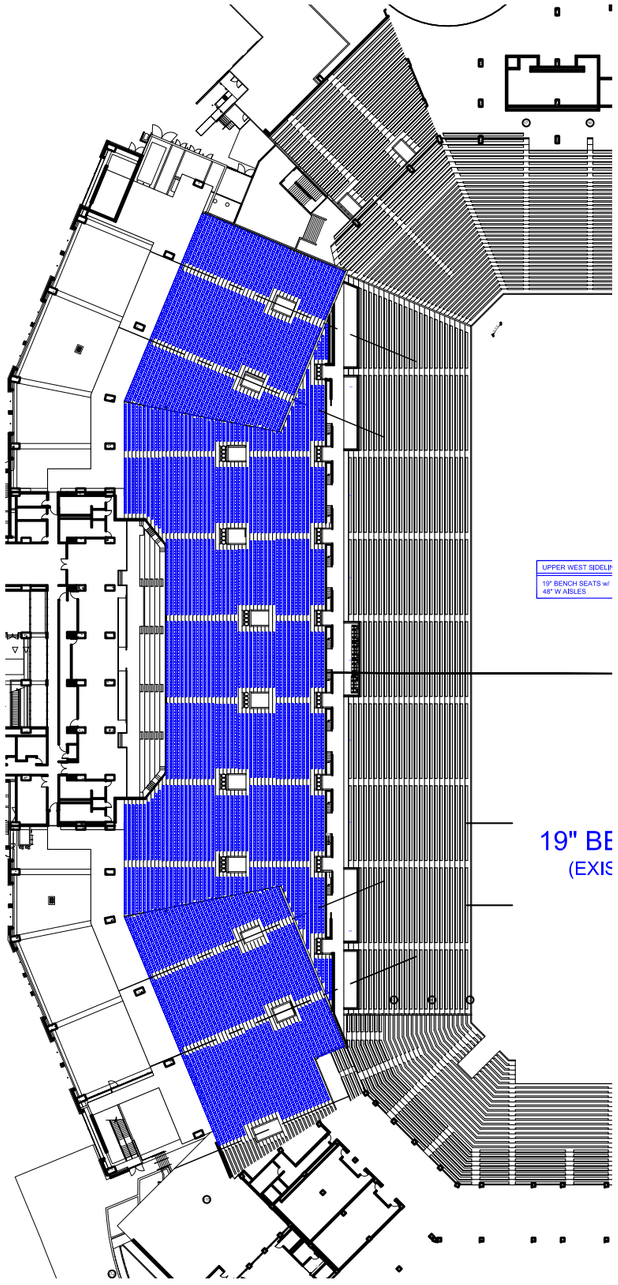

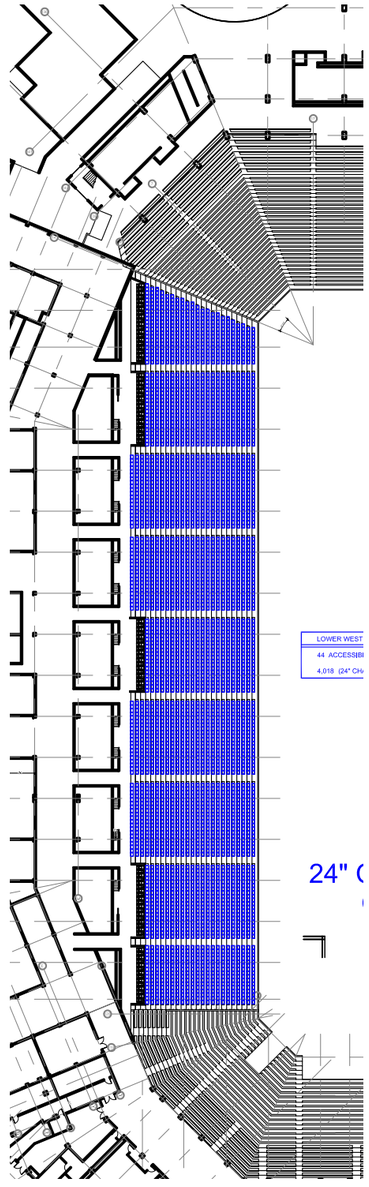

LOWER BOWL			EXISTING	9,554
TREAD DEPTH	SEAT WIDTH	AISLE WIDTH	SEAT COUNT	DELTA
33"	24"	48" TYP	4,105	5,449

UPPER BOWL			EXISTING	16,312
TREAD DEPTH	SEAT WIDTH	AISLE WIDTH	SEAT COUNT	DELTA
25"	19"	48" TYP	11,959	4,353

TOTALS	16,064	9,802

SCENARIO 5
LOWER BOWL MODIFICATIONS + INTRODUCTION OF CHAIRBACK SEATING (24")

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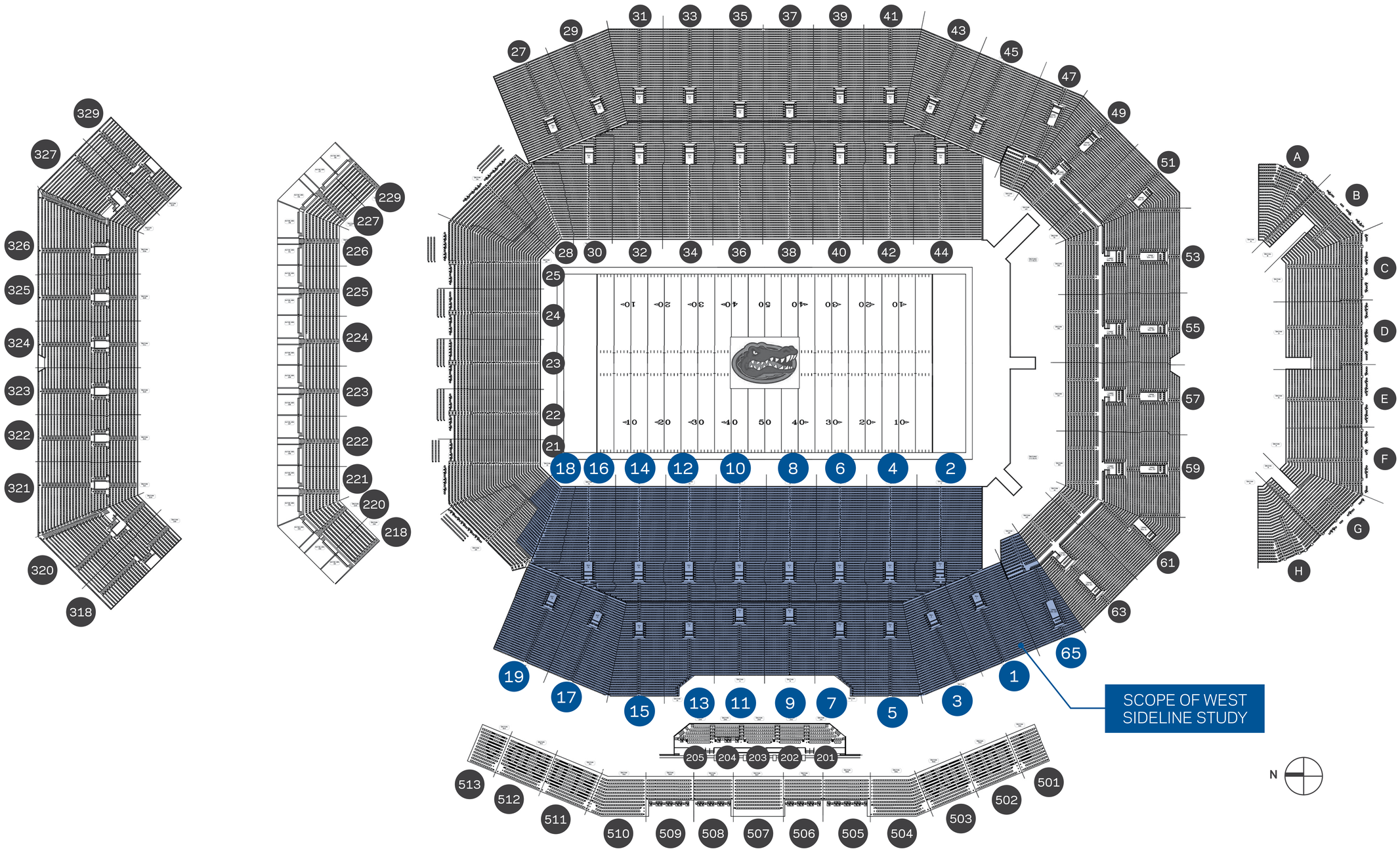

SECTION	EXISTING			SCENARIO 1				SCENARIO 2				SCENARIO 3				SCENARIO 4				SCENARIO 5			
	UPPER BOWL: 25" TREAD, 16.8" SEAT LOWER BOWL: 25" TREAD, 16.8" SEAT 36" AISLES			UPPER BOWL: 25" TREAD, 16.8" SEAT LOWER BOWL: 25" TREAD, 16.8" SEAT 48" AISLES				UPPER BOWL: 25" TREAD, 19" SEAT LOWER BOWL: 25" TREAD, 19" SEAT 48" AISLES				UPPER BOWL: 25" TREAD, 19" SEAT LOWER BOWL: 33" TREAD, 19" SEAT 48" AISLES CROSSAISLE				UPPER BOWL: 25" TREAD, 19" SEAT LOWER BOWL 33" TREAD, 22" SEAT 48" AISLES CROSSAISLE				UPPER BOWL: 25" TREAD, 19" SEAT LOWER BOWL: 33" TREAD, 24" SEAT 48" AISLES CROSSAISLE			
	GA	BOX	TOTAL	GA	BOX	TOTAL	DELTA	GA	BOX	TOTAL	DELTA	GA	BOX	TOTAL	DELTA	GA	BOX	TOTAL	DELTA	GA	BOX	TOTAL	DELTA
1	1,365	4	1,369	1,285	4	1,289	80	1,022	4	1,026	343	1,022	4	1,026	343	1,022	4	1,026	343	1,022	4	1,026	343
2	1,545	6	1,551	1,461	4	1,465	86	1,279	4	1,283	268	1,085	4	1,089	462	744	4	748	803	700	4	704	847
3	1,339	4	1,343	1,259	4	1,263	80	1,139	4	1,143	200	1,139	4	1,143	200	1,139	4	1,143	200	1,139	4	1,143	200
4	1,414	6	1,420	1,314	4	1,318	102	1,213	4	1,217	203	1,069	4	1,073	347	996	4	1,000	420	746	4	750	670
5	1,060	4	1,064	978	4	982	82	946	4	950	114	946	4	950	114	946	4	950	114	946	4	950	114
6	1,416	6	1,422	1,316	4	1,320	102	1,204	4	1,208	214	1,090	4	1,094	328	808	4	812	610	758	4	762	660
7	1,014	4	1,018	932	4	936	82	821	4	825	193	821	4	825	193	821	4	825	193	821	4	825	193
8	1,416	6	1,422	1,316	4	1,320	102	1,204	4	1,208	214	1,047	4	1,051	371	734	4	738	684	737	4	741	681
9	920	4	924	860	4	864	60	742	4	746	178	742	4	746	178	742	4	746	178	742	4	746	178
10	1,416	6	1,422	1,316	4	1,320	102	1,204	4	1,208	214	1,047	4	1,051	371	734	4	738	684	737	4	741	681
11	922	4	926	862	4	866	60	744	4	748	178	744	4	748	178	744	4	748	178	744	4	748	178
12	1,416	6	1,422	1,316	4	1,320	102	1,204	4	1,208	214	1,090	4	1,094	328	808	4	812	610	758	4	762	660
13	986	4	990	904	4	908	82	822	4	826	164	822	4	826	164	822	4	826	164	822	4	826	164
14	1,425	6	1,431	1,325	4	1,329	102	1,198	4	1,202	229	1,053	4	1,057	374	727	4	731	700	730	4	734	697
15	1,124	4	1,128	1,042	4	1,046	82	957	4	961	167	957	4	961	167	957	4	961	167	957	4	961	167
16	1,225	6	1,231	1,139	4	1,143	88	1,049	4	1,053	178	814	4	818	413	572	4	576	655	545	4	549	682
17	1,274	4	1,278	1,194	4	1,198	80	1,139	4	1,143	135	1,139	4	1,143	135	1,139	4	1,143	135	1,139	4	1,143	135
18	768	0	768	735	4	739	29	704	0	704	64	675	0	675	93	571	0	571	197	530	0	530	238
19	1,431	4	1,435	1,351	4	1,355	80	1,153	4	1,157	278	1,153	4	1,157	278	1,153	4	1,157	278	1,153	4	1,157	278
65	828	7	835	766	4	770	65	770	7	777	58	770	7	777	58	770	7	777	58	770	7	777	58
TOTAL	**24,399**			**TOTAL**		**22,751**	**1,648**	**TOTAL**		**20,593**	**3,806**	**TOTAL**		**19,304**	**5,095**	**TOTAL**		**17,028**	**7,371**	**TOTAL**		**16,575**	**7,824**
UPPER BOWL	12,310			UPPER BOWL		11,477	833	UPPER BOWL		10,302	2,008	UPPER BOWL		10,302	2,008	UPPER BOWL		10,302	2,008	UPPER BOWL		10,302	2,008
LOWER BOWL	12,089			LOWER BOWL		11,274	815	LOWER BOWL		10,291	1,798	LOWER BOWL		9,002	3,087	LOWER BOWL		6,726	5,363	LOWER BOWL		6,273	5,816

WEST SIDELINE STUDY

UNIVERSITY OF FLORIDA | BEN HILL GRIFFIN STADIUM
SEPTEMBER 17, 2018

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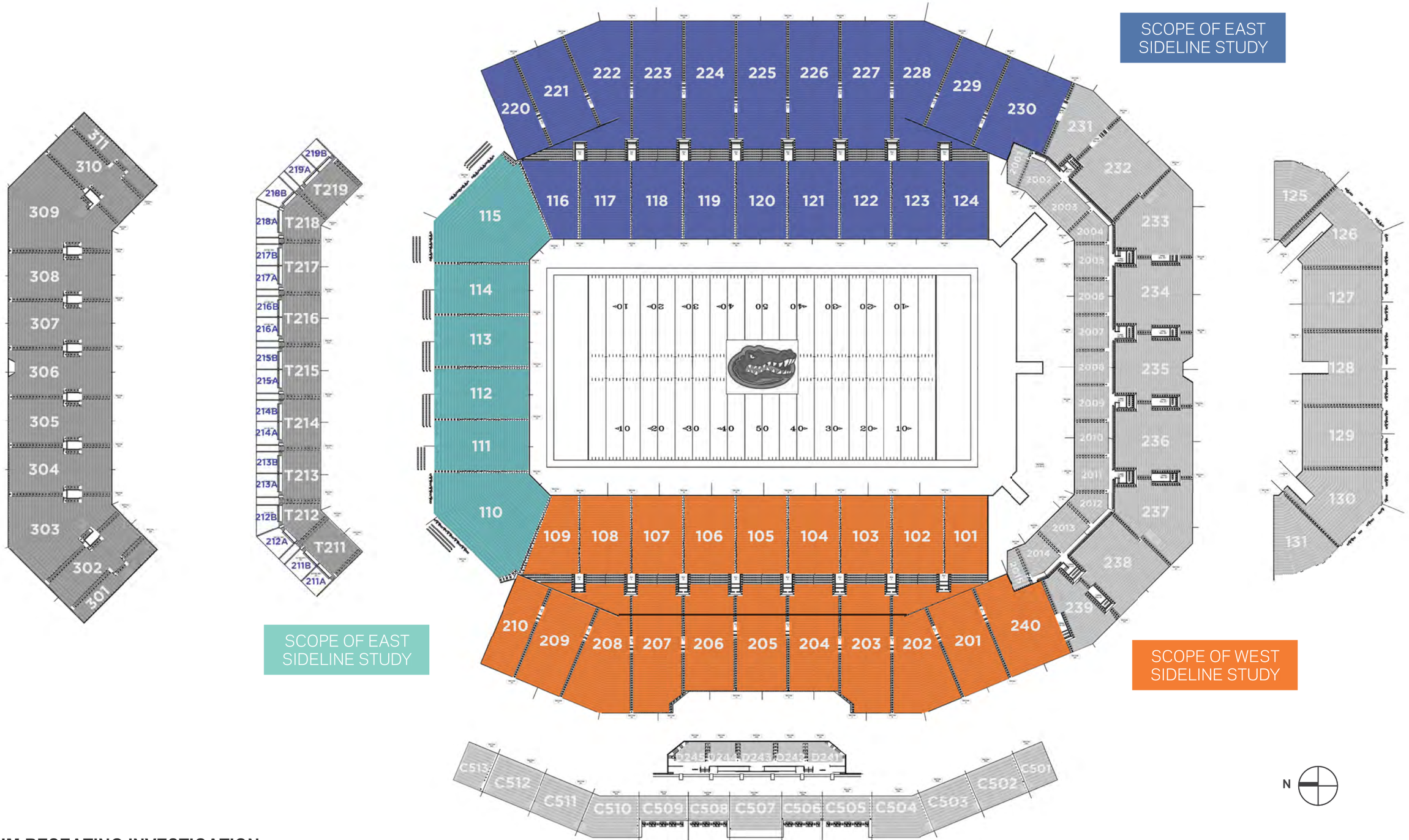

STADIUM RESEATING INVESTIGATION
UNIVERSITY OF FLORIDA | BEN HILL GRIFFIN STADIUM
NOVEMBER 8, 2018

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University of Florida Ben Hill Griffin Stadium

Reseating Investigation Executive Summary

HOK

Thursday, November 8, 2018

	West Sideline			North Sideline			East Sideline	
	Lower 116-124 Upper 220-230	Delta		Lower 110-115	Delta		Lower 101-109 Upper 201-210, 240	Delta
Existing								
UPPER BOWL: 25" TREAD, 16.8" SEAT LOWER BOWL: 25" TREAD, 16.8" SEAT 36" AISLES	**23,706**	-		**7,909**	-		**24,636**	-
Scenario 1								
UPPER BOWL: 25" TREAD, 16.8" SEAT LOWER BOWL: 25" TREAD, 16.8" SEAT 48" AISLES	**22,789**	917		**7,684**	225		**23,647**	989
Scenario 2								
UPPER BOWL: 25" TREAD, 19" SEAT LOWER BOWL: 25" TREAD, 19" SEAT 48" AISLES	**19,725**	3,981		**6,943**	966		**20,746**	3,890
Scenario 3								
UPPER BOWL: 25" TREAD, 19" SEAT LOWER BOWL: 33" TREAD, 19" SEAT 48" AISLES CROSSAISLE	**17,079**	6,627		**5,717**	2,192		**18,695**	5,941
Scenario 4								
UPPER BOWL: 25" TREAD, 19" SEAT LOWER BOWL: 33" TREAD, 22" SEAT 48" AISLES CROSSAISLE	**16,291**	7,415		**5,067**	2,842		**17,907**	6,729
Scenario 5								
UPPER BOWL: 25" TREAD, 19" SEAT LOWER BOWL: 33" TREAD, 24" SEAT 48" AISLES CROSSAISLE	**15,885**	7,821		**4,505**	3,404		**17,453**	7,183

NOTE: While efforts have been made to be as accurate as possible with the information provided, please anticipate a +/- 5% swing in the numbers above.

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University of Florida Ben Hill Griffin Stadium
Reseating Investigation
HOK

Thursday, November 8, 2018

EXISTING

UPPER BOWL: 25" TREAD, 16.8" SEAT
LOWER BOWL: 25" TREAD, 16.8" SEAT
AISLE WIDTH: 36"

		TOTAL
WEST / LOWER BOWL	101	
	102	
	103	
	104	
	105	
	106	
	107	
	108	
	109	
WEST / UPPER BOWL	201	
	202	
	203	
	204	
	205	
	206	
	207	
	208	
	209	
	210	
	240	
		TOTAL EXISTING WEST 23,706
NORTH / LOWER	110	
	111	
	112	
	113	
	114	
	115	
		TOTAL EXISTING NORTH 7,909
EAST / LOWER	116	
	117	
	118	
	119	
	120	
	121	
	122	
	123	
	124	
EAST / UPPER	220	
	221	
	222	
	223	
	224	
	225	
	226	
	227	
	228	
	229	
	230	
		TOTAL EXISTING EAST 24,636

SCENARIO 1

UPPER BOWL: 25" TREAD, 16.8" SEAT
LOWER BOWL: 25" TREAD, 16.8" SEAT
48" AISLES

		LOSS
WEST / LOWER BOWL	101	32
	102	32
	103	32
	104	32
	105	32
	106	32
	107	32
	108	32
	109	40
		TOTAL LOSS + 5% 311
WEST / UPPER BOWL	201	41
	202	58
	203	58
	204	49
	205	49
	206	49
	207	58
	208	58
	209	58
	210	58
	240	41
		TOTAL LOSS + 5% 606
		TOTAL LOSS WEST 917
NORTH / LOWER	110	47
	111	30
	112	30
	113	30
	114	30
	115	47
		TOTAL LOSS + 5% 225
EAST / LOWER	116	40
	117	32
	118	32
	119	32
	120	32
	121	32
	122	32
	123	32
	124	32
		TOTAL LOSS + 5% 311
EAST / UPPER	220	58
	221	58
	222	58
	223	58
	224	60
	225	60
	226	60
	227	60
	228	58
	229	58
	230	58
		TOTAL LOSS + 5% 678
		TOTAL LOSS EAST 989

SCENARIO 2

UPPER BOWL: 25" TREAD, 19" SEAT
LOWER BOWL: 25" TREAD, 19" SEAT
48" AISLES

		GA	BOX	WC	C	TOTAL
WEST / LOWER BOWL	101	682	0			682
	102	806	0			806
	103	806	0			806
	104	806	0			806
	105	806	0			806
	106	806	0			806
	107	806	0			806
	108	806	0			806
	109	634	0			634
					TOTAL	6,958
WEST / UPPER BOWL	201	980	4			984
	202	1488	16			1,504
	203	1343	10			1,353
	204	1108	10			1,118
	205	1114	10			1,124
	206	1108	10			1,118
	207	1343	10			1,353
	208	1517	10			1,527
	209	981	4			985
	210	696	0			696
	240	1001	4			1,005
					TOTAL	12,767
					TOTAL WEST	19,725
NORTH / LOWER	110	1597	0	17	17	1,631
	111	905	0	7	8	920
	112	905	0	7	7	919
	113	905	0	9	7	921
	114	905	0	7	9	921
	115	1597	0	17	17	1,631
					TOTAL	6,943
EAST / LOWER	116	634	0			634
	117	806	6			812
	118	806	6			812
	119	806	6			812
	120	806	6			812
	121	806	6			812
	122	806	6			812
	123	806	6			812
	124	682	6			688
					TOTAL	7,006
EAST / UPPER	220	696	0			696
	221	980	4			984
	222	1517	10			1,527
	223	1401	10			1,411
	224	1394	10			1,404
	225	1400	10			1,410
	226	1394	10			1,404
	227	1401	10			1,411
	228	1488	16			1,504
	229	980	4			984
	230	1001	4			1,005
					TOTAL	13,740
					TOTAL EAST	20,746

SCENARIO 3

UPPER BOWL: 25" TREAD, 19" SEAT
LOWER BOWL: 33" TREAD, 19" SEAT
48" AISLES
CROSSAISLE

		GA	BOX	WC	C	TOTAL
WEST / LOWER BOWL	101	462	0	9	9	480
	102	546	0	9	9	564
	103	650	0	0	0	650
	104	650	0	0	0	650
	105	650	0	0	0	650
	106	650	0	0	0	650
	107	650	0	0	0	650
	108	546	0	9	9	564
	109	408	0	10	10	428
					TOTAL	5,286
WEST / UPPER BOWL	201	980	4			984
	202	1318	16			1,334
	203	1230	10			1,240
	204	991	10			1,001
	205	991	10			1,001
	206	991	10			1,001
	207	1229	10			1,239
	208	1298	10			1,308
	209	980	4			984
	210	696	0			696
	240	1001	4			1,005
					TOTAL	11,793
					TOTAL WEST	17,079
NORTH / LOWER	110	1348	0	17	17	1,382
	111	723	0	7	8	738
	112	723	0	7	7	737
	113	723	0	9	7	739
	114	723	0	7	9	739
	115	1348	0	17	17	1,382
					TOTAL	5,717
EAST / LOWER	116	408	0	10	10	428
	117	546	6	9	9	570
	118	650	6	0	0	656
	119	650	6	0	0	656
	120	650	6	0	0	656
	121	650	6	0	0	656
	122	650	6	0	0	656
	123	546	6	9	9	570
	124	462	6	9	9	486
					TOTAL	5,334
EAST / UPPER	220	696	0			696
	221	980	4			984
	222	1298	10			1,308
	223	1400	10			1,410
	224	1400	10			1,410
	225	1400	10			1,410
	226	1400	10			1,410
	227	1400	10			1,410
	228	1318	16			1,334
	229	980	4			984
	230	1001	4			1,005
					TOTAL	13,361
					TOTAL EAST	18,695

SCENARIO 4

UPPER BOWL: 25" TREAD, 19" SEAT
LOWER BOWL: 33" TREAD, 22" SEAT
48" AISLES
CROSSAISLE

		GA	BOX	WC	C	TOTAL
WEST / LOWER BOWL	101	399	0	9	9	417
	102	462	0	9	9	480
	103	550	0	0	0	550
	104	550	0	0	0	550
	105	550	0	0	0	550
	106	550	0	0	0	550
	107	550	0	0	0	550
	108	462	0	9	9	480
	109	351	0	10	10	371
					TOTAL	4,498
WEST / UPPER BOWL		Identical to Scenario 3.				
					TOTAL	11,793
					TOTAL WEST	16,291
NORTH / LOWER	110	1207	0	17	17	1,241
	111	631	0	7	8	646
	112	631	0	7	7	645
	113	631	0	9	7	647
	114	631	0	7	9	647
	115	1207	0	17	17	1,241
					TOTAL	5,067
EAST / LOWER	116	351	0	10	10	371
	117	462	6	9	9	486
	118	550	6	0	0	556
	119	550	6	0	0	556
	120	550	6	0	0	556
	121	550	6	0	0	556
	122	550	6	0	0	556
	123	462	6	9	9	486
	124	399	6	9	9	423
					TOTAL	4,546
EAST / UPPER		Identical to Scenario 3.				
					TOTAL	13,361
					TOTAL EAST	17,907

SCENARIO 5

UPPER BOWL: 25" TREAD, 19" SEAT
LOWER BOWL: 33" TREAD, 24" SEAT
48" AISLES
CROSSAISLE

		GA	BOX	WC	C	TOTAL
WEST / LOWER BOWL	101	357	0	9	9	375
	102	420	0	9	9	438
	103	500	0	0	0	500
	104	500	0	0	0	500
	105	500	0	0	0	500
	106	500	0	0	0	500
	107	500	0	0	0	500
	108	420	0	9	9	438
	109	321	0	10	10	341
					TOTAL	4,092
WEST / UPPER BOWL		Identical to Scenario 3.				
					TOTAL	11,793
					TOTAL WEST	15,885
NORTH / LOWER	110	1068	0	17	17	1,102
	111	560	0	7	8	575
	112	560	0	7	7	574
	113	560	0	9	7	576
	114	560	0	7	9	576
	115	1068	0	17	17	1,102
					TOTAL	4,505
EAST / LOWER	116	321	0	10	10	341
	117	420	0	9	9	438
	118	500	0	0	0	500
	119	500	0	0	0	500
	120	500	0	0	0	500
	121	500	0	0	0	500
	122	500	0	0	0	500
	123	420	0	9	9	438
	124	357	0	9	9	375
					TOTAL	4,092
EAST / UPPER		Identical to Scenario 3.				
					TOTAL	13,361
					TOTAL EAST	17,453

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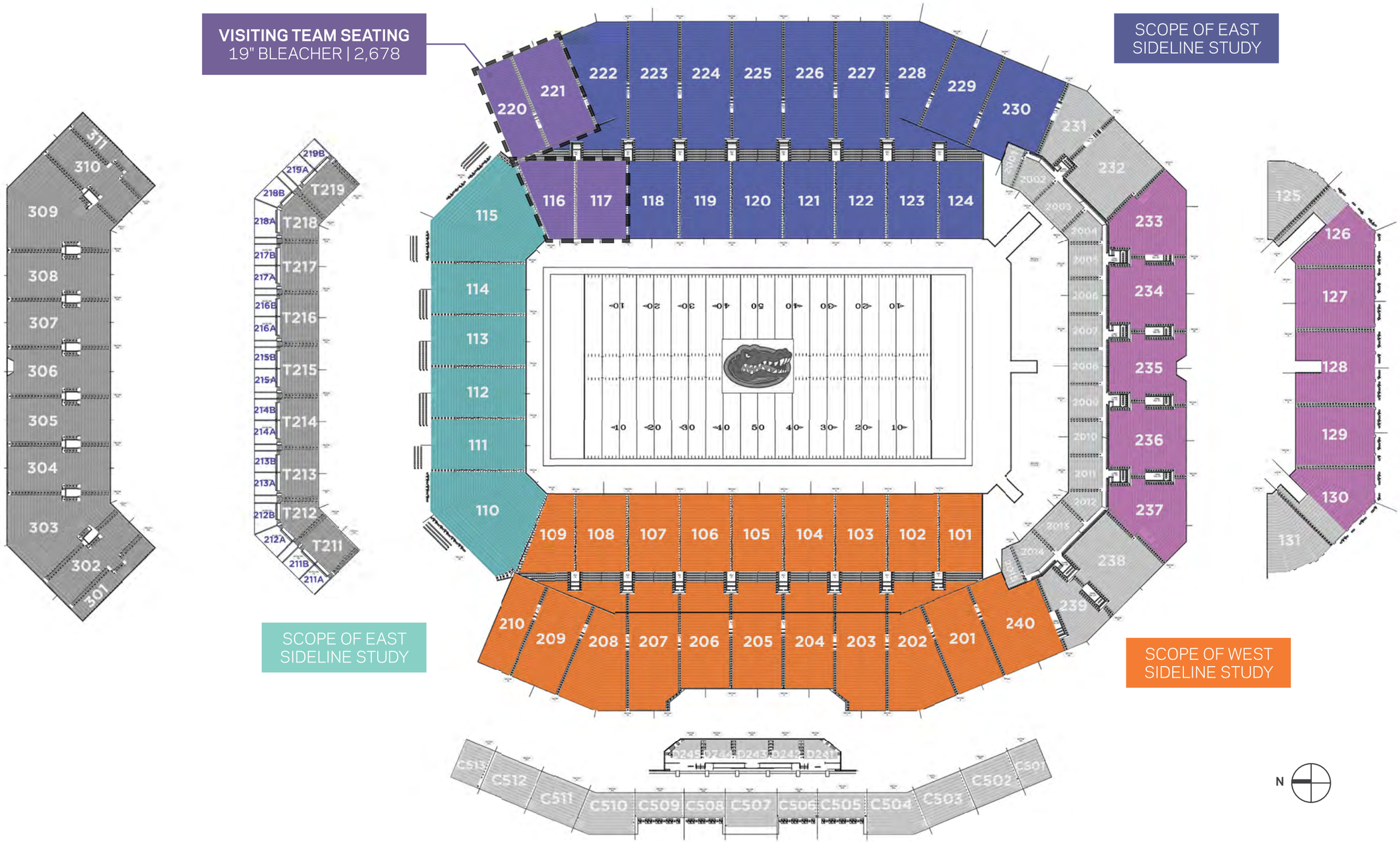

STADIUM RESEATING INVESTIGATION
UNIVERSITY OF FLORIDA | BEN HILL GRIFFIN STADIUM
NOVEMBER 30, 2018

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University of Florida Ben Hill Griffin Stadium

Reseating Investigation Executive Summary

HOK

Friday, November 30, 2018

	West Sideline		North Endzone		East Sideline		South Endzone	
	Lower 116-124 Upper 220-230	Delta	Lower 110-115	Delta	Lower 101-109 Upper 201-210, 240	Delta	Lower 126-130 Upper 233-237	Delta
Existing								
UPPER BOWL: 25" TREAD, 16.8" SEAT LOWER BOWL: 25" TREAD, 16.8" SEAT 36" AISLES	23,706	-	7,909	-	24,636	-	10,226	-
Scenario 1								
UPPER BOWL: 25" TREAD, 16.8" SEAT LOWER BOWL: 25" TREAD, 16.8" SEAT 48" AISLES	22,789	917	7,684	225	23,647	989	30" TREADS 48" AISLES 19" BLEACHER + STANDING	
Scenario 2								
UPPER BOWL: 25" TREAD, 19" SEAT LOWER BOWL: 25" TREAD, 19" SEAT 48" AISLES	19,725	3,981	6,943	966	20,746	3,890	8,814	1,412
Scenario 3								
UPPER BOWL: 25" TREAD, 19" SEAT LOWER BOWL: 33" TREAD, 19" SEAT 48" AISLES CROSSAISLE	17,079	6,627	5,717	2,192	18,695	5,941		
Scenario 4								
UPPER BOWL: 25" TREAD, 19" SEAT LOWER BOWL: 33" TREAD, 22" SEAT 48" AISLES CROSSAISLE	16,291	7,415	5,067	2,842	17,907	6,729		
Scenario 5								
UPPER BOWL: 25" TREAD, 19" SEAT LOWER BOWL: 33" TREAD, 24" SEAT 48" AISLES CROSSAISLE	15,885	7,821	4,505	3,404	17,453	7,183		

NOTE: While efforts have been made to be as accurate as possible with the information provided, please anticipate a +/- 5% swing in the numbers above.

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University of Florida Ben Hill Griffin Stadium
Reseating Investigation
HOK

Friday, November 30, 2018

EXISTING

UPPER BOWL: 25" TREAD, 16.8" SEAT
LOWER BOWL: 25" TREAD, 16.8" SEAT
AISLE WIDTH: 36"

		TOTAL
WEST / LOWER BOWL	101	
	102	
	103	
	104	
	105	
	106	
	107	
	108	
	109	
WEST / UPPER BOWL	201	
	202	
	203	
	204	
	205	
	206	
	207	
	208	
	209	
	210	
	240	
		TOTAL EXISTING WEST 23,706
NORTH / LOWER	110	
	111	
	112	
	113	
	114	
	115	
		TOTAL EXISTING NORTH 7,909

SCENARIO 1

UPPER BOWL: 25" TREAD, 16.8" SEAT
LOWER BOWL: 25" TREAD, 16.8" SEAT
48" AISLES

		LOSS
WEST / LOWER BOWL	101	32
	102	32
	103	32
	104	32
	105	32
	106	32
	107	32
	108	32
	109	40
WEST / UPPER BOWL	201	41
	202	58
	203	58
	204	49
	205	49
	206	49
	207	58
	208	58
	209	58
	210	58
	240	41
NORTH / LOWER	110	47
	111	30
	112	30
	113	30
	114	30
	115	47

TOTAL LOSS + 5% 311
TOTAL LOSS + 5% 606
TOTAL LOSS WEST 917
TOTAL LOSS + 5% 225

SCENARIO 2

UPPER BOWL: 25" TREAD, 19" SEAT
LOWER BOWL: 25" TREAD, 19" SEAT
48" AISLES

		GA	BOX	WC	C	TOTAL
WEST / LOWER BOWL	101	682	0			682
	102	806	0			806
	103	806	0			806
	104	806	0			806
	105	806	0			806
	106	806	0			806
	107	806	0			806
	108	806	0			806
	109	634	0			634
					TOTAL	6,958
WEST / UPPER BOWL	201	980	4			984
	202	1488	16			1,504
	203	1343	10			1,353
	204	1108	10			1,118
	205	1114	10			1,124
	206	1108	10			1,118
	207	1343	10			1,353
	208	1517	10			1,527
	209	981	4			985
	210	696	0			696
	240	1001	4			1,005
					TOTAL	12,767
					TOTAL WEST	**19,725**
NORTH / LOWER	110	1597	0	17	17	1,631
	111	905	0	7	8	920
	112	905	0	7	7	919
	113	905	0	9	7	921
	114	905	0	7	9	921
	115	1597	0	17	17	1,631
					TOTAL	**6,943**

SCENARIO 3

UPPER BOWL: 25" TREAD, 19" SEAT
LOWER BOWL: 33" TREAD, 19" SEAT
48" AISLES
CROSSAISLE

		GA	BOX	WC	C	TOTAL
WEST / LOWER BOWL	101	462	0	9	9	480
	102	546	0	9	9	564
	103	650	0	0	0	650
	104	650	0	0	0	650
	105	650	0	0	0	650
	106	650	0	0	0	650
	107	650	0	0	0	650
	108	546	0	9	9	564
	109	408	0	10	10	428
					TOTAL	5,286
WEST / UPPER BOWL	201	980	4			984
	202	1318	16			1,334
	203	1230	10			1,240
	204	991	10			1,001
	205	991	10			1,001
	206	991	10			1,001
	207	1229	10			1,239
	208	1298	10			1,308
	209	980	4			984
	210	696	0			696
	240	1001	4			1,005
					TOTAL	11,793
					TOTAL WEST	**17,079**
NORTH / LOWER	110	1348	0	17	17	1,382
	111	723	0	7	8	738
	112	723	0	7	7	737
	113	723	0	9	7	739
	114	723	0	7	9	739
	115	1348	0	17	17	1,382
					TOTAL	**5,717**

SCENARIO 4

UPPER BOWL: 25" TREAD, 19" SEAT
LOWER BOWL: 33" TREAD, 22" SEAT
48" AISLES
CROSSAISLE

		GA	BOX	WC	C	TOTAL
WEST / LOWER BOWL	101	399	0	9	9	417
	102	462	0	9	9	480
	103	550	0	0	0	550
	104	550	0	0	0	550
	105	550	0	0	0	550
	106	550	0	0	0	550
	107	550	0	0	0	550
	108	462	0	9	9	480
	109	351	0	10	10	371
					TOTAL	4,498
WEST / UPPER BOWL		Identical to Scenario 3.				
					TOTAL	11,793
					TOTAL WEST	**16,291**
NORTH / LOWER						

SCENARIO 5

UPPER BOWL: 25" TREAD, 19" SEAT
LOWER BOWL: 33" TREAD, 24" SEAT
48" AISLES
CROSSAISLE

		GA	BOX	WC	C	TOTAL
WEST / LOWER BOWL	101	357	0	9	9	375
	102	420	0	9	9	438
	103	500	0	0	0	500
	104	500	0	0	0	500
	105	500	0	0	0	500
	106	500	0	0	0	500
	107	500	0	0	0	500
	108	420	0	9	9	438
	109	321	0	10	10	341
					TOTAL	4,092
WEST / UPPER BOWL		Identical to Scenario 3.				
					TOTAL	11,793
					TOTAL WEST	**15,885**
NORTH / LOWER						

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EXISTING

UPPER BOWL: 25" TREAD, 16.8" SEAT
LOWER BOWL: 25" TREAD, 16.8" SEAT
AISLE WIDTH: 36"

EAST / LOWER	116	
	117	
	118	
	119	
	120	
	121	
	122	
	123	
	124	
EAST / UPPER	220	
	221	
	222	
	223	
	224	
	225	
	226	
	227	
	228	
	229	
	230	
		TOTAL EXISTING EAST 24,636

SCENARIO 1

UPPER BOWL: 25" TREAD, 16.8" SEAT
LOWER BOWL: 25" TREAD, 16.8" SEAT
48" AISLES

116	40
117	32
118	32
119	32
120	32
121	32
122	32
123	32
124	32
	TOTAL LOSS + 5% 311
220	58
221	58
222	58
223	58
224	60
225	60
226	60
227	60
228	58
229	58
230	58
	TOTAL LOSS + 5% 678
	TOTAL LOSS EAST 989

SCENARIO 2

UPPER BOWL: 25" TREAD, 19" SEAT
LOWER BOWL: 25" TREAD, 19" SEAT
48" AISLES

116	634	0	634
117	806	6	812
118	806	6	812
119	806	6	812
120	806	6	812
121	806	6	812
122	806	6	812
123	806	6	812
124	682	6	688
		TOTAL	7,006
220	696	0	696
221	980	4	984
222	1517	10	1,527
223	1401	10	1,411
224	1394	10	1,404
225	1400	10	1,410
226	1394	10	1,404
227	1401	10	1,411
228	1488	16	1,504
229	980	4	984
230	1001	4	1,005
		TOTAL	13,740
		TOTAL EAST	20,746

SCENARIO 3

UPPER BOWL: 25" TREAD, 19" SEAT
LOWER BOWL: 33" TREAD, 19" SEAT
48" AISLES
CROSSAISLE

116	408	0	10	10	428
117	546	6	9	9	570
118	650	6	0	0	656
119	650	6	0	0	656
120	650	6	0	0	656
121	650	6	0	0	656
122	650	6	0	0	656
123	546	6	9	9	570
124	462	6	9	9	486
			TOTAL		5,334
220	696	0			696
221	980	4			984
222	1298	10			1,308
223	1400	10			1,410
224	1400	10			1,410
225	1400	10			1,410
226	1400	10			1,410
227	1400	10			1,410
228	1318	16			1,334
229	980	4			984
230	1001	4			1,005
			TOTAL		13,361
			TOTAL EAST		18,695

SCENARIO 4

UPPER BOWL: 25" TREAD, 19" SEAT
LOWER BOWL: 33" TREAD, 22" SEAT
48" AISLES
CROSSAISLE

116	351	0	10	10	371
117	462	6	9	9	486
118	550	6	0	0	556
119	550	6	0	0	556
120	550	6	0	0	556
121	550	6	0	0	556
122	550	6	0	0	556
123	462	6	9	9	486
124	399	6	9	9	423
			TOTAL		4,546

Identical to Scenario 3.

TOTAL	13,361
TOTAL EAST	17,907

SCENARIO 5

UPPER BOWL: 25" TREAD, 19" SEAT
LOWER BOWL: 33" TREAD, 24" SEAT
48" AISLES
CROSSAISLE

116	321	0	10	10	341
117	420	0	9	9	438
118	500	0	0	0	500
119	500	0	0	0	500
120	500	0	0	0	500
121	500	0	0	0	500
122	500	0	0	0	500
123	420	0	9	9	438
124	357	0	9	9	375
			TOTAL		4,092

Identical to Scenario 3.

TOTAL	13,361
TOTAL EAST	17,453

EXISTING

		30" TREADS ROWS 1-19: 19" BLEACHER ROWS 20-27: 21" SEAT
SOUTH / LOWE	125	458
	126	*incl 7 WC/14 C* 666
	127	*incl 6 WC/7 C* 879
	128	*incl 8 WC/13 C* 986
	129	*incl 6 WC/7 C* 879
	130	*incl 7 WC/14 C* 666
	131	458
	TOTAL	**4,992**
		25" TREADS 18" BLEACHER 44" AISLES
SOUTH / UPPER	233	965
	234	1152
	235	1000
	236	1152
	237	965
	TOTAL	**5234**

RESEAT

30" TREADS 48" AISLES	GA	WC	C	TOTAL	DELTA
19" bleacher seating	591	0	0	591	133
Standing terraces	392	0	0	392	274
Standing terraces	575	9	9	593	286
Standing terraces	650	14	14	678	308
Standing terraces	575	9	9	593	286
19" bleacher seating	392	0	0	392	274
19" bleacher seating	591	0	0	591	133
				3,830	**1,162**

25" TREADS 48" AISLES	TOTAL	DELTA
19" bleacher seating	928	37
19" bleacher seating	1,097	55
19" bleacher seating	931	69
19" bleacher seating	1,097	55
19" bleacher seating	931	34
	4,984	**250**

TOTAL SOUTH UPPER + LOWER **10,226** **8,814** 1,412

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VISITING TEAM
2,678 SEATS
19" BLEACHER

SCOPE OF
EAST SIDELINE

BAND
650 SEATS

STUDENTS
11,786 SEATS
LB: 3,196, UB: 8,590

RECRUITS
413 SEATS

SCOPE OF
NORTH ENDZONE

SCOPE OF
WEST SIDELINE

N

STADIUM RESEATING INVESTIGATION

UNIVERSITY OF FLORIDA | BEN HILL GRIFFIN STADIUM
DECEMBER 21, 2018

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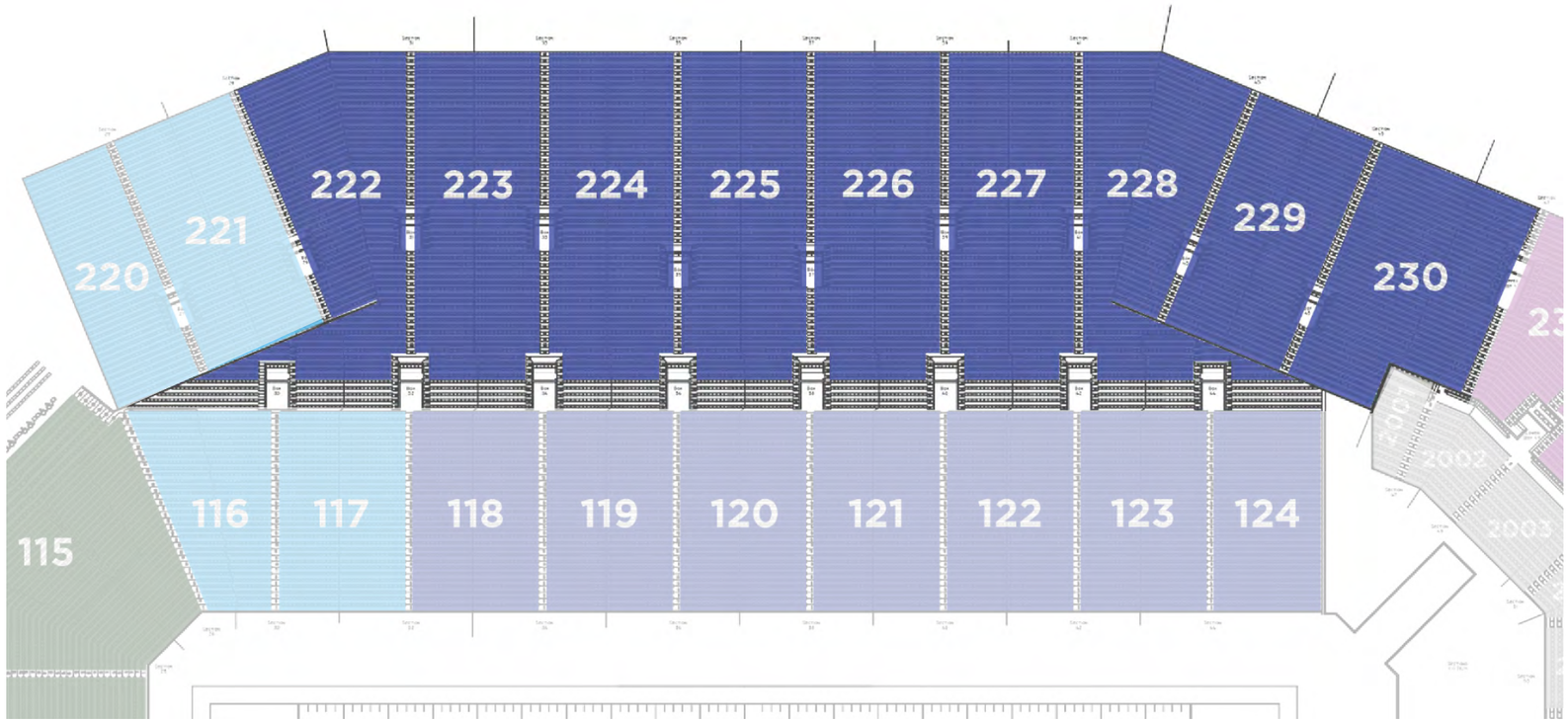

EAST UPPER ALT. (DOUG)

SEC 222, 228 52 ROWS
SEC 223-227 52 ROWS
SEC 229 40 ROWS, **SEC 230** 38 ROWS

	STEP 1	STEP 2	STEP 3	
	UPPER BOWL: 25" TREAD, 16.8" SEAT 36" AISLES **CROSSAISLE**	UPPER BOWL: 25" TREAD, 16.8" SEAT **48" AISLES** CROSSAISLE	UPPER BOWL: 25" TREAD, **19" SEAT** 48" AISLES CROSSAISLE	
SECTION				
222	1,442	1,385	1,308	
223	1,500	1,443	1,410	
224	1,500	1,443	1,410	
225	1,500	1,443	1,410	
226	1,500	1,443	1,410	
227	1,500	1,443	1,410	
228	1,442	1,385	1,334	
229	1,158	1,113	984	
230	1,260	1,218	1,005	
TOTAL	**12,802**	**12,316**	**11,681**	
DELTA		486	1,121	

	486	635

EAST UPPER INVESTIGATION
UNIVERSITY OF FLORIDA | BEN HILL GRIFFIN STADIUM
FEBRUARY 21, 2019

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University of Florida Ben Hill Griffin Stadium

Upper Bowl Reseating Investigation Executive Summary

HOK

Friday, March 8, 2019

	West Upper Bowl		East Upper Bowl	
	SECTIONS 220-230	DELTA	SECTIONS 201-210, 240	DELTA
Existing				
UPPER BOWL (ROWS 34-90) 25" TREAD, 16.8" SEAT 36" AISLES	**15,080**	-	**15,977**	-
Existing *(MODIFIED)*				
UPPER BOWL (ROWS 39-90) 25" TREAD, 16.8" SEAT 36" AISLES CROSSAISLE	**14,048**	-1,032	**14,945**	-1,032
Scenario 1				
UPPER BOWL (ROWS 34-90) 25" TREAD, 16.8" SEAT 48" AISLES	13,465	583	14,330	615
Scenario 1.5				
UPPER BOWL (ROWS 39-90) 25" TREAD, 16.8" SEAT 48" AISLES CROSSAISLE	**13,489**	-1,591	**14,359**	-1,618
Scenario 3				
UPPER BOWL (ROWS 39-90) 25" TREAD, 19" SEAT 48" AISLES CROSSAISLE	**11,763**	-3,317	**12,646**	-3,331

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University of Florida Ben Hill Griffin Stadium

Stadium Reseating Investigation Executive Summary

HOK

Friday, March 29, 2019

	East Sideline		North Endzone		West Sideline		South Endzone	
	Lower 116-124 Upper 220-230	Delta	Lower 110-115	Delta	Lower 101-109 Upper 201-210, 240	Delta	Lower 126-130 Upper 231-239	Delta
Existing								
UPPER BOWL: 25" TREAD, 16.8" SEAT LOWER BOWL: 25" TREAD, 16.8" SEAT 36" AISLES	23,706	-	7,909	-	24,636	-	13,936	-
Scenario 1								
UPPER BOWL: 25" TREAD, 16.8" SEAT LOWER BOWL: 25" TREAD, 16.8" SEAT 48" AISLES	22,812	894	7,684	225	23,710	926	30" TREADS 48" AISLES 19" BLEACHER + STANDING (19") (INCLUDES SEAT LOSSES ASSOCIATED WITH ADDITION OF SEZ FIELD CLUB + SEZ MEZZ CLUB)	
Scenario 2								
UPPER BOWL: 25" TREAD, 19" SEAT LOWER BOWL: 25" TREAD, 19" SEAT 48" AISLES	19,725	3,981	6,943	966	20,682	3,954	11,999	1,937
Scenario 3								
UPPER BOWL: 25" TREAD, 19" SEAT LOWER BOWL: 33" TREAD, 19" SEAT 48" AISLES CROSSAISLE	17,049	6,657	5,717	2,192	17,980	6,656		
Scenario 4								
UPPER BOWL: 25" TREAD, 19" SEAT LOWER BOWL: 33" TREAD, 22" SEAT 48" AISLES CROSSAISLE	16,261	7,445	5,067	2,842	17,192	7,444		
Scenario 5								
UPPER BOWL: 25" TREAD, 19" SEAT LOWER BOWL: 33" TREAD, 24" SEAT 48" AISLES CROSSAISLE	15,855	7,851	4,505	3,404	16,738	7,898		

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University of Florida Ben Hill Griffin Stadium

Stadium Reseating Investigation Executive Summary

HOK

Friday, March 29, 2019

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University of Florida Ben Hill Griffin Stadium
Reseating Investigation
HOK

Friday, May 3, 2019

EXISTING (MODIFIED)

UPPER BOWL: 25" TREAD, 16.8" SEAT
LOWER BOWL: 25" TREAD, 16.8" SEAT
AISLE WIDTH: 36"
CROSSAISLE

		GA	BOX	TOTAL
WEST / LOWER BOWL	101			
	102			
	103			
	104			
	105			
	106			
	107			
	108			
	109			
WEST / UPPER BOWL	201	1,158	4	1,162
	202	1,480	16	1,496
	203	1,452	10	1,462
	204	1,206	10	1,216
	205	1,251	10	1,261
	206	1,206	10	1,216
	207	1,452	10	1,462
	208	1,480	10	1,490
	209	1,158	4	1,162
	210	819	0	819
	240	1,298	4	1,302
			SUBTOTAL WEST UPPER	14,048
			TOTAL EXISTING WEST	23,706
NORTH / LOWER	110			
	111			
	112			
	113			
	114			
	115			
			TOTAL EXISTING N. LOWER	7,909

		CHAIR	BLEACHER
NORTH / UPPER	T211	240	0
	T212	129	0
	T213	240	0
	T214	240	0
	T215	240	0
	T216	237	0
	T217	240	0
	T218	196	0
	T219	240	0
		SUBTOTAL	2,002	
	301	156	64
	302	394	128
	303	532	357
	304	554	184
	305	554	184
	306	554	161
	307	554	184
	308	554	185
	309	718	420
	310	214	127
	311	156	65
		SUBTOTAL	4,940	2,059
			6,942	2,059
		TOTAL EXISTING N. UPPER		9,001

EXISTING

UPPER BOWL: 25" TREAD, 16.8" SEAT
LOWER BOWL: 25" TREAD, 16.8" SEAT
AISLE WIDTH: 36"

WEST / LOWER BOWL	101		
	102		
	103		
	104		
	105		
	106		
	107		
	108		
	109		
WEST / UPPER BOWL	201	0	1,162
	202	216	1,712
	203	120	1,582
	204	120	1,336
	205	120	1,381
	206	120	1,336
	207	120	1,582
	208	216	1,706
	209	0	1,162
	210	0	819
	240	0	1,302
		TOTAL LOSS	1,032	
		SUBTOTAL WEST UPPER		15,080
NORTH / LOWER	110		
	111		
	112		
	113		
	114		
	115		

SCENARIO 3

UPPER BOWL: 25" TREAD, 19" SEAT (39-90)
LOWER BOWL: 33" TREAD, 19" SEAT (1-33)
48" AISLES
CROSSAISLE

		GA	BOX	WC	C	TOTAL
WEST / LOWER BOWL	101	462	0	9	9	480
	102	546	0	9	9	564
	103	650	0	0	0	650
	104	650	0	0	0	650
	105	650	0	0	0	650
	106	650	0	0	0	650
	107	650	0	0	0	650
	108	546	0	9	9	564
	109	408	0	10	10	428
					TOTAL	5,286
WEST / UPPER BOWL	201	952	4			956
	202	1,248	16			1,264
	203	1,210	10			1,220
	204	1,020	10			1,030
	205	1,026	10			1,036
	206	1,020	10			1,030
	207	1,210	10			1,220
	208	1,248	10			1,258
	209	952	4			956
	210	677	0			677
	240	1,112	4			1,116
				SUBTOTAL WEST UPPER		11,763
				TOTAL WEST		17,049
NORTH / LOWER	110	1348	0	17	17	1,382
	111	723	0	7	8	738
	112	723	0	7	7	737
	113	723	0	9	7	739
	114	723	0	7	9	739
	115	1348	0	17	17	1,382
					TOTAL	5,717

30 17,079

SCENARIO 4

UPPER BOWL: 25" TREAD, 19" SEAT
LOWER BOWL: 33" TREAD, 22" SEAT
48" AISLES
CROSSAISLE

		GA	BOX	WC	C	TOTAL
WEST / LOWER BOWL	101	399	0	9	9	417
	102	462	0	9	9	480
	103	550	0	0	0	550
	104	550	0	0	0	550
	105	550	0	0	0	550
	106	550	0	0	0	550
	107	550	0	0	0	550
	108	462	0	9	9	480
	109	351	0	10	10	371
					TOTAL	4,498
WEST / UPPER BOWL		Identical to Scenario 3.				
					TOTAL	11,763
					TOTAL WEST	16,261
NORTH / LOWER	110	1207	0	17	17	1,241
	111	631	0	7	8	646
	112	631	0	7	7	645
	113	631	0	9	7	647
	114	631	0	7	9	647
	115	1207	0	17	17	1,241
					TOTAL	5,067

		BLEACHER
NORTH / UPPER	T211	214
	T212	180
	T213	240
	T214	240
	T215	240
	T216	240
	T217	240
	T218	180
	T219	214
		SUBTOTAL	1,988
	301	226
	302	520
	303	876
	304	726
	305	726
	306	726
	307	726
	308	726
	309	876
	310	520
	311	226
		SUBTOTAL	6,874
		TOTAL	8,862

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University of Florida Ben Hill Griffin Stadium
Reseating Investigation
HOK

Friday, March 8, 2019

EXISTING (MODIFIED)

UPPER BOWL: 25" TREAD, 16.8" SEAT
LOWER BOWL: 25" TREAD, 16.8" SEAT
AISLE WIDTH: 36"
CROSSAISLE

EAST / LOWER	116			
	117			
	118			
	119			
	120			
	121			
	122			
	123			
	124			
EAST / UPPER	220	859	0	859
	221	1,158	4	1,162
	222	1,442	10	1,452
	223	1,500	10	1,510
	224	1,500	10	1,510
	225	1,500	10	1,510
	226	1,500	10	1,510
	227	1,500	10	1,510
	228	1,442	16	1,458
	229	1,158	4	1,162
	230	1,298	4	1,302
		TOTAL EXST. EAST UPPER		14,945
		TOTAL EXISTING EAST		24,636

EXISTING

UPPER BOWL: 25" TREAD, 16.8" SEAT
LOWER BOWL: 25" TREAD, 16.8" SEAT
AISLE WIDTH: 36"

	tess			
	859	0	0	859
	1158	0	0	1,162
	1450	216	0	1,668
	1500	120	0	1,630
	1500	120	0	1,630
	1498	120	0	1,630
	1512	120	0	1,630
	1500	120	0	1,630
	1449	216	0	1,674
	1158	0	0	1,162
	1291	0	0	1,302
		TOTAL LOSS	1,032	
		SUBTOTAL WEST UPPER		15,977

SCENARIO 3

UPPER BOWL: 25" TREAD, 19" SEAT
LOWER BOWL: 33" TREAD, 19" SEAT
48" AISLES
CROSSAISLE

	408	0	10	10	428
	546	6	9	9	570
	650	6	0	0	656
	650	6	0	0	656
	650	6	0	0	656
	650	6	0	0	656
	650	6	0	0	656
	546	6	9	9	570
	462	6	9	9	486
				TOTAL	5,334
	692	0			692
	984	4			988
	1,248	10			1,258
	1,261	10			1,271
	1,254	10			1,264
	1,260	10			1,270
	1,254	10			1,264
	1,261	10			1,271
	1,248	16			1,264
	984	4			988
	1,112	4			1,116
				TOTAL	12,646
				TOTAL EAST	17,980

SCENARIO 4

UPPER BOWL: 25" TREAD, 19" SEAT
LOWER BOWL: 33" TREAD, 22" SEAT
48" AISLES
CROSSAISLE

351	0	10	10	371
462	6	9	9	486
550	6	0	0	556
550	6	0	0	556
550	6	0	0	556
550	6	0	0	556
550	6	0	0	556
550	6	0	0	556
462	6	9	9	486
399	6	9	9	423
			TOTAL	4,546

Identical to Scenario 3.

TOTAL	12,646
TOTAL EAST	17,192

EXISTING

30" TREADS
ROWS 1-19: 19" BLEACHER
ROWS 20-27: 21" SEAT

SOUTH / LOWER	125	BAND	458
	126	incl 7 WC/14 C	666
	127	incl 6 WC/7 C	879
	128	incl 8 WC/13 C	986
	129	incl 6 WC/7 C	879
	130	incl 7 WC/14 C	666
	131	RECRUITS	458
	TOTAL		4,992

25" TREADS
18" BLEACHER
44" AISLES

SOUTH / UPPER	231		635
	232		1,220
	233		965
	234		1,152
	235		1,000
	236		1,152
	237		965
	238		1,220
	239		635
	TOTAL		8,944

TOTAL SOUTH UPPER + LOWER **13,936**

DELTA
192
253
303
312
303
16
45
1,040

DELTA
27
79
37
205
204
205
34
79
27
897

2,889

1,937

07-Mar-19

SEC	EXISTING	PROP	DELTA
231	635	595	-40
232	1,220	1,180	-40
233	965	905	-60
234	1,152	1,112	-40
235	1,000	960	-40
236	1,152	1,112	-40
237	965	905	-60
238	1,220	1,180	-40
239	635	595	-40
TOTAL	**8,944**	**8,544**	-400

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BEN HILL GRIFFIN STADIUM

UNIVERSITY OF FLORIDA
SCOREBOARD OPTIONS
DECEMBER 21, 2018

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SMALL OPTION
EXISTING SIZE

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SMALL OPTION
EXISTING SIZE

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MEDIUM OPTION
66′ X 40′

DocuSign Envelope ID: D9980ADD-6B20-489D-A191-89A1DD193441

MEDIUM OPTION
66′ X 40′

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LARGE OPTION
175′ X 40′

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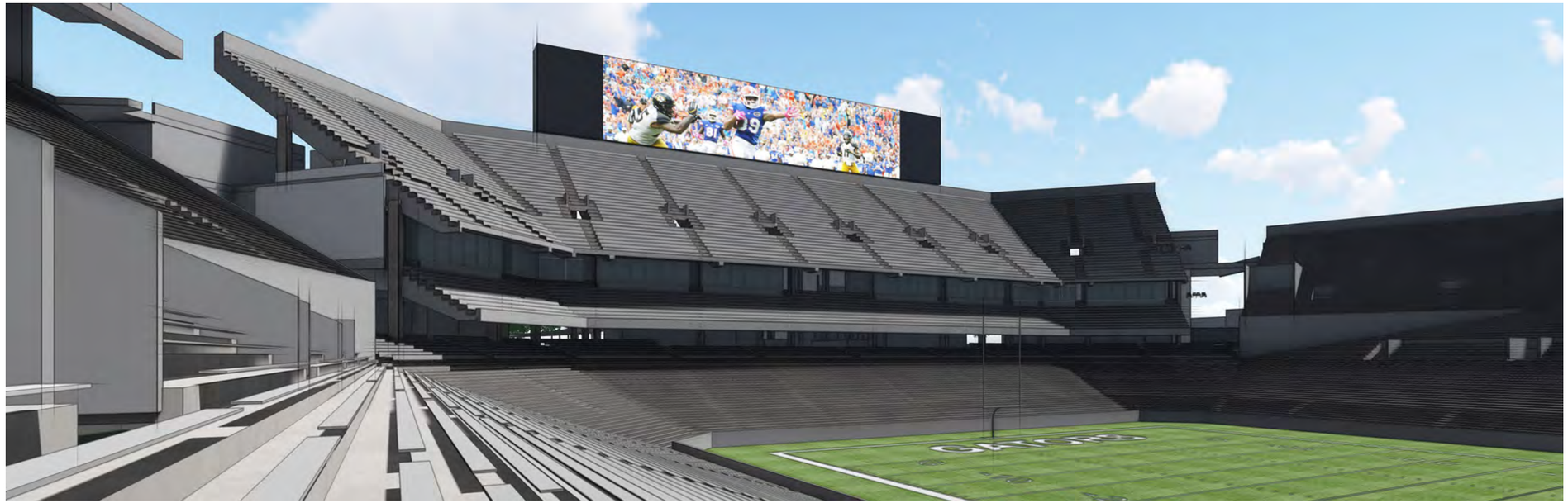

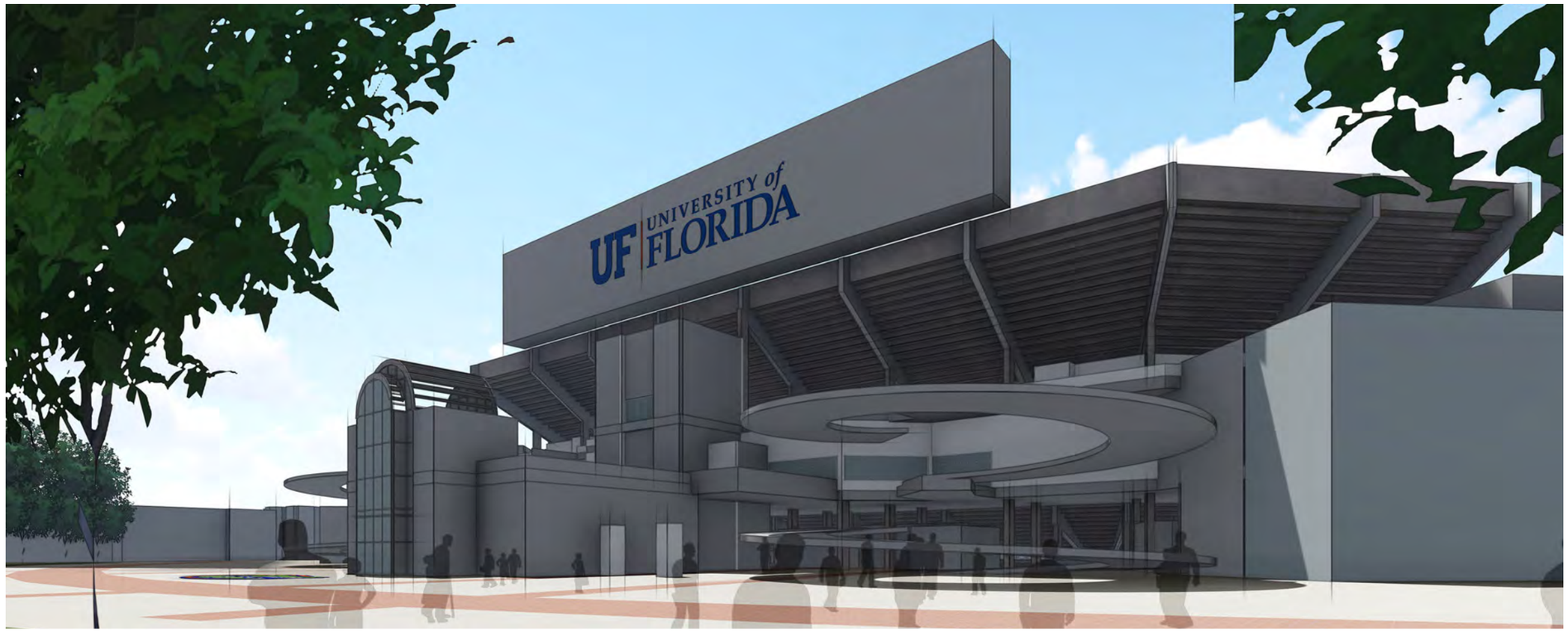

LARGE OPTION
175′ X 40′

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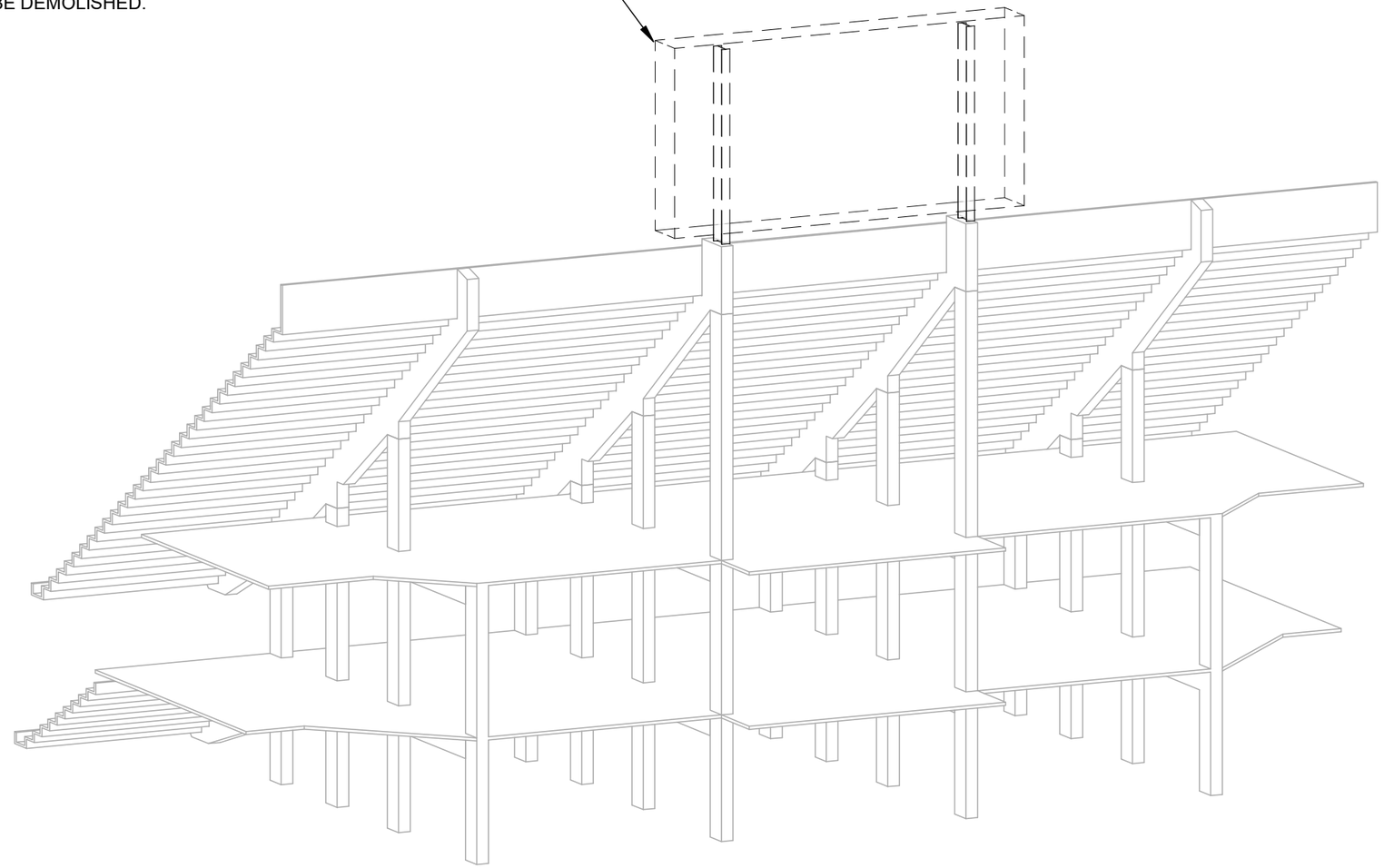
EXISTING VIDEO BOARD. STRUCTURAL DRAWINGS FOR EXISTING VIDEO BOARD WERE NOT AVAILABLE AT THE TIME OF THIS STUDY. IT IS UNKNOWN AT THIS TIME IF ANY PORTION OF THE EXISTING VIDEO BOARD STRUCTURE CAN BE SALVAGED OR MODIFIED FOR NEW VIDEO BOARD SUPPORT. THUS, EXISTING VIDEO BOARD STRUCTURE HAS BEEN SHOWN TO BE DEMOLISHED.



1 SMALL BOARD ISOMETRIC - DEMO

walter p moore

Walter P Moore and Associates, Inc.
201 East Kennedy Blvd, Suite 300
Tampa, Florida 33602

813.221.2424
Certificate of Authorization No. 3818

DYLAN S. RICHARD P.E. NO. 60997

Project Name: UF Football Video Board Study Ben Hill Griffin Stadium Gainesville, Florida		Date: 06/07/19	Sheet: S-001
Client HOK		Project Number: S05-19031-00	

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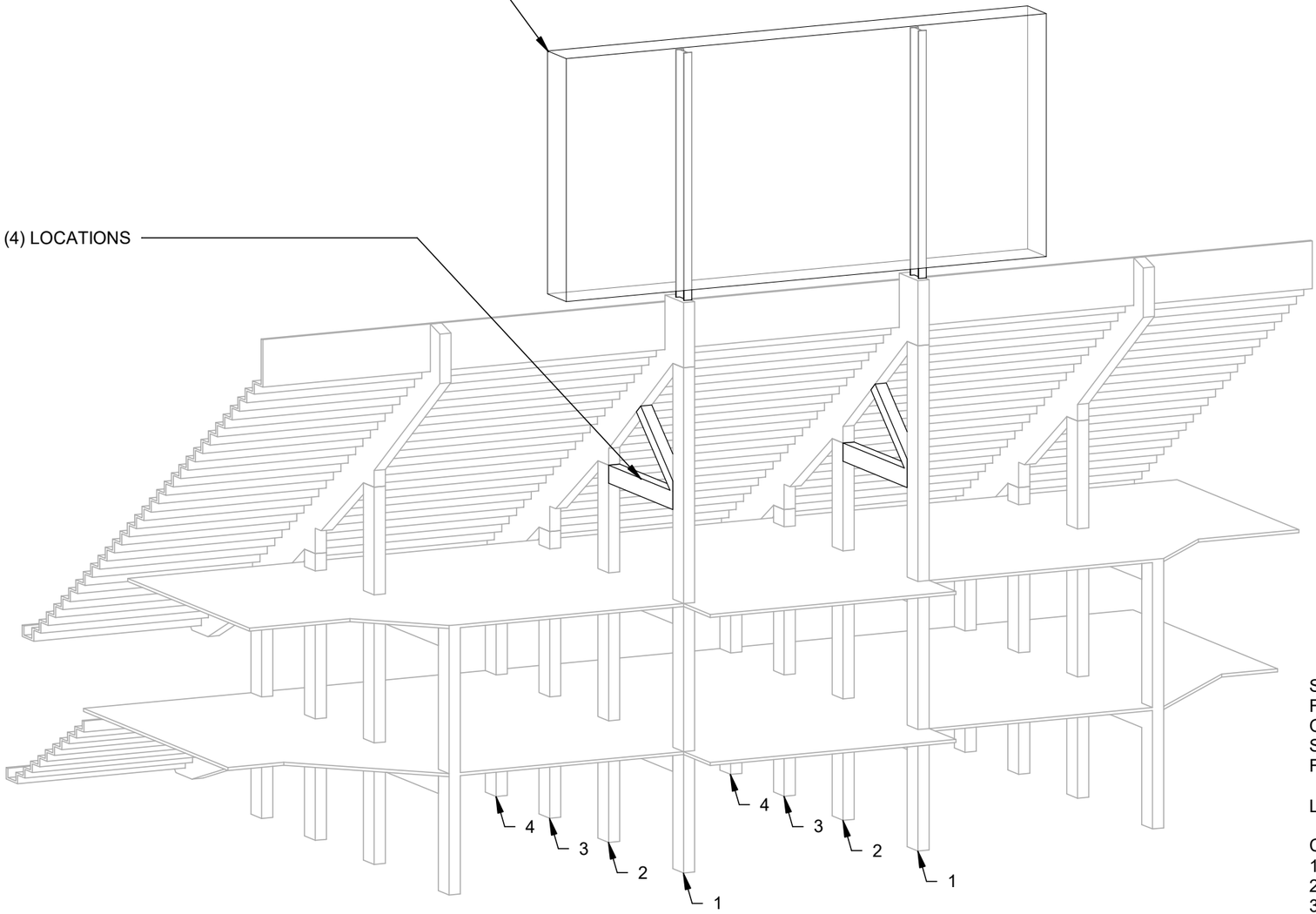
NEW MEDIUM VIDEO BOARD. ASSUME 55 TOTAL TONS OF STEEL FOR NEW MEDIUM VIDEO BOARD STRUCTURE FROM BASE PLATE UP.

NEW CIP CONCRETE STRUT, TYPICAL (4) LOCATIONS



STRUCTURAL DRAWINGS FOR LOWER BOWL AND FOUNDATIONS WERE NOT AVAILABLE AT THE TIME OF THIS STUDY. THUS, FOUNDATION STRENGHTENING COULD BE REQUIRED UPON FURTHER INVESTIGATION.

LOAD CHANGES AT COLUMNS ARE AS FOLLOWS:

COLUMN KEY:
1 = 40% INCREASE (250 KIPS)
2 = NO CHANGE
3 = NO CHANGE
4 = NO CHANGE

1 MEDIUM BOARD ISOMETRIC - NEW

walter p moore

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Tampa, Florida 33602

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DYLAN S. RICHARD P.E. NO. 60997

Project Name:	Date:	Sheet:
UF Football Video Board Study Ben Hill Griffin Stadium Gainesville, Florida	06/07/19	S-002
Client: HOK	Project Number: S05-19031-00	

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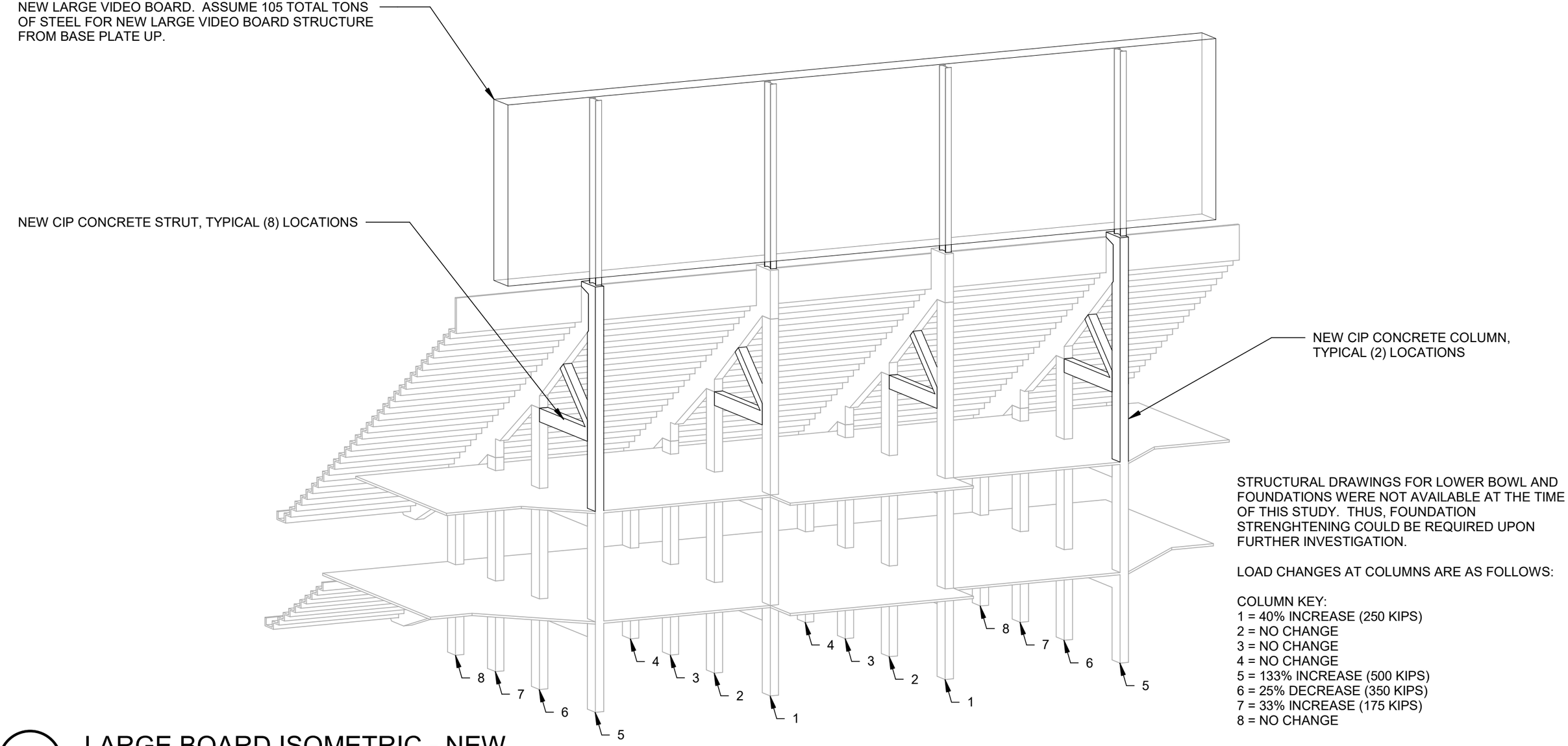

1 LARGE BOARD ISOMETRIC - NEW

STRUCTURAL DRAWINGS FOR LOWER BOWL AND FOUNDATIONS WERE NOT AVAILABLE AT THE TIME OF THIS STUDY. THUS, FOUNDATION STRENGHTENING COULD BE REQUIRED UPON FURTHER INVESTIGATION.

LOAD CHANGES AT COLUMNS ARE AS FOLLOWS:

COLUMN KEY:
1 = 40% INCREASE (250 KIPS)
2 = NO CHANGE
3 = NO CHANGE
4 = NO CHANGE
5 = 133% INCREASE (500 KIPS)
6 = 25% DECREASE (350 KIPS)
7 = 33% INCREASE (175 KIPS)
8 = NO CHANGE

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DYLAN S. RICHARD P.E. NO. 60997

Project Name:	Date:	Sheet:
UF Football Video Board Study Ben Hill Griffin Stadium Gainesville, Florida	06/07/19	S-003
Client: HOK	Project Number: S05-19031-00	

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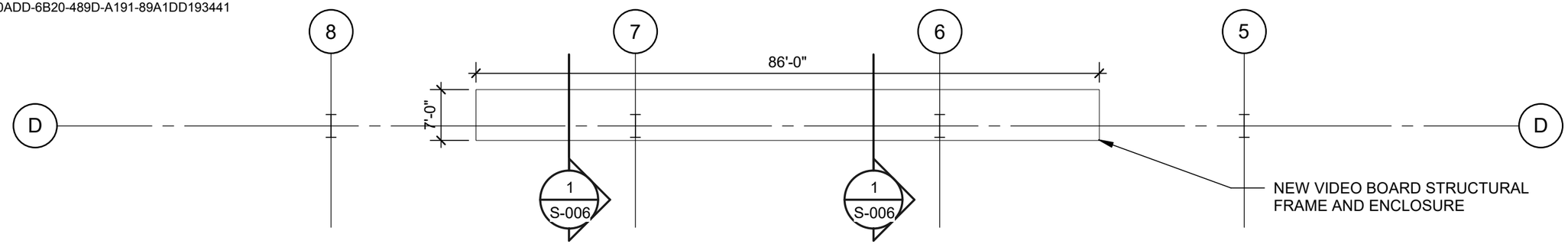
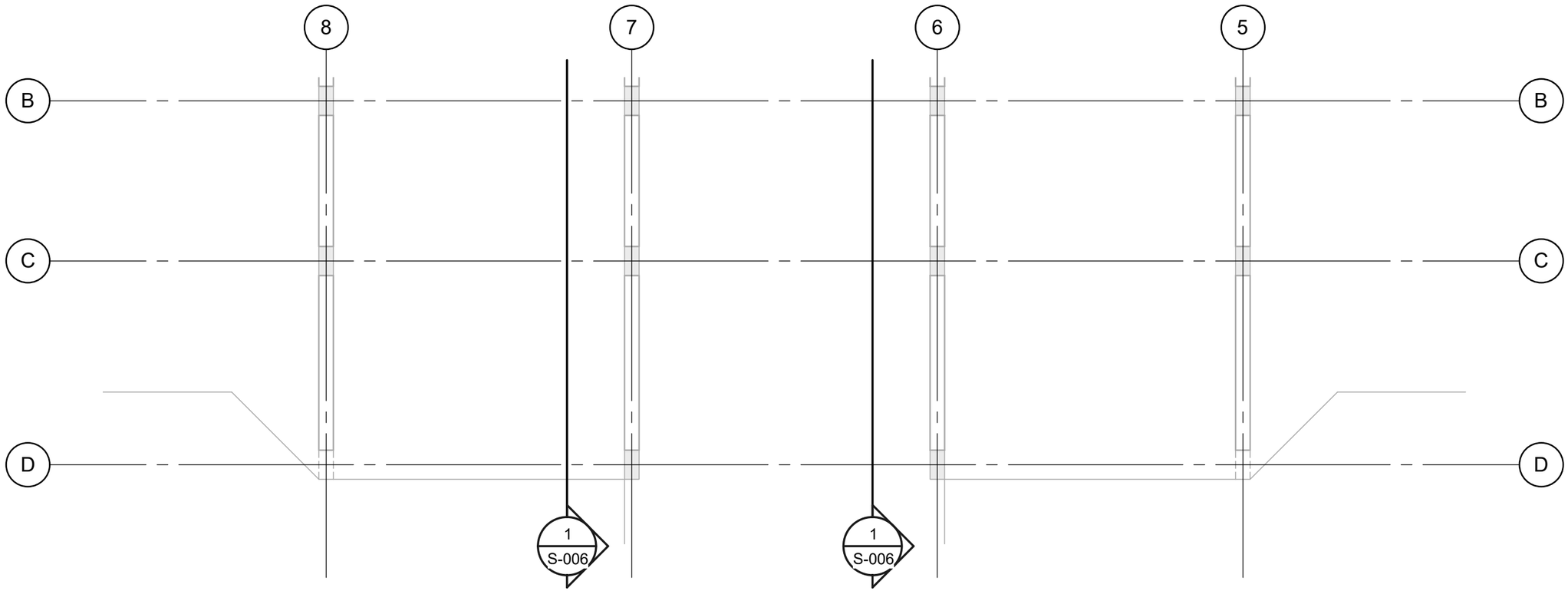


2 MEDIUM BOARD - VIDEO BOARD PLAN

1/16" = 1'-0"



1 MEDIUM BOARD - UPPER CONCOURSE PLAN

1/16" = 1'-0"

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DYLAN S. RICHARD P.E. NO. 60997

Project Name:	UF Football Video Board Study Ben Hill Griffin Stadium Gainesville, Florida
Client	HOK
Date:	06/07/19
Project Number:	S05-19031-00
Sheet:	S-004

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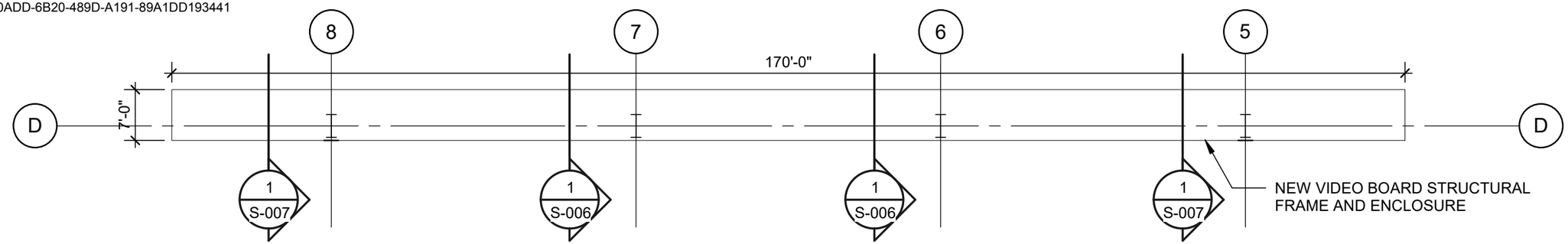
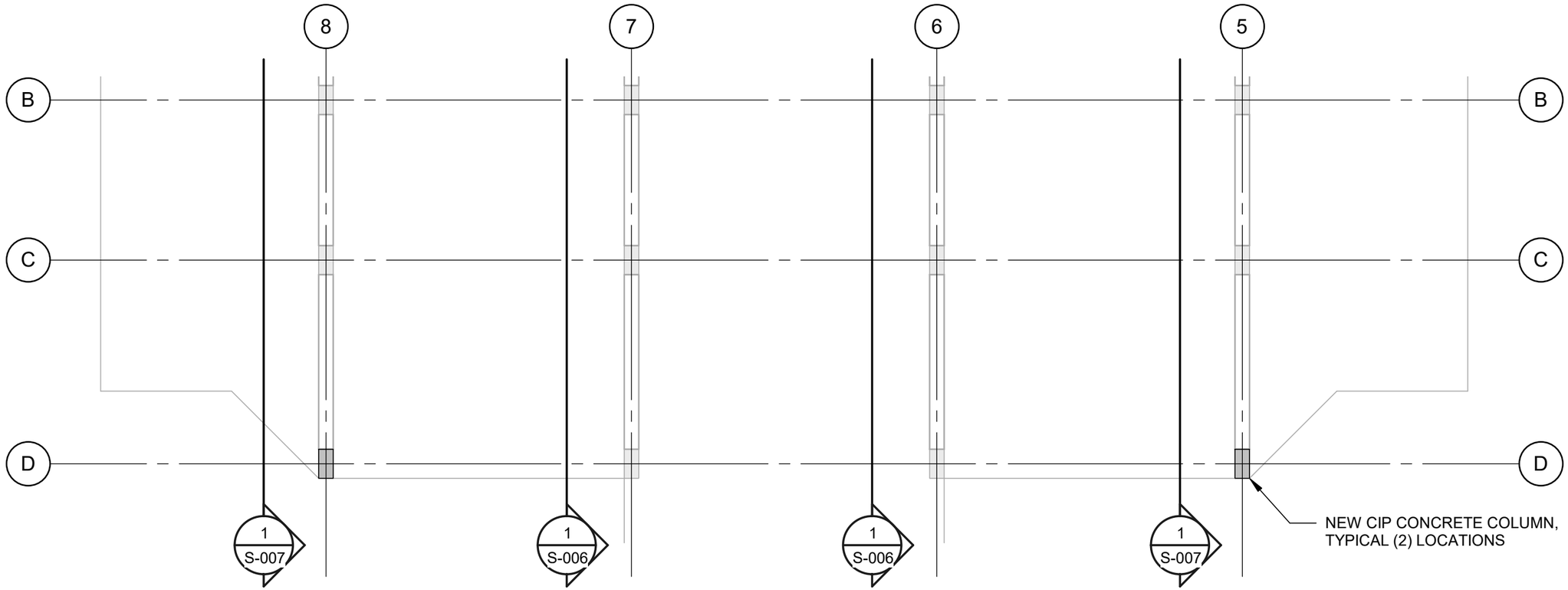


2 LARGE BOARD - VIDEO BOARD PLAN

1/16" = 1'-0"



1 LARGE BOARD - UPPER CONCOURSE PLAN

1/16" = 1'-0"

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DYLAN S. RICHARD P.E. NO. 60997

Project Name: UF Football Video Board Study Ben Hill Griffin Stadium Gainesville, Florida	Date: 06/07/19	Sheet: S-005
Client: HOK	Project Number: S05-19031-00	

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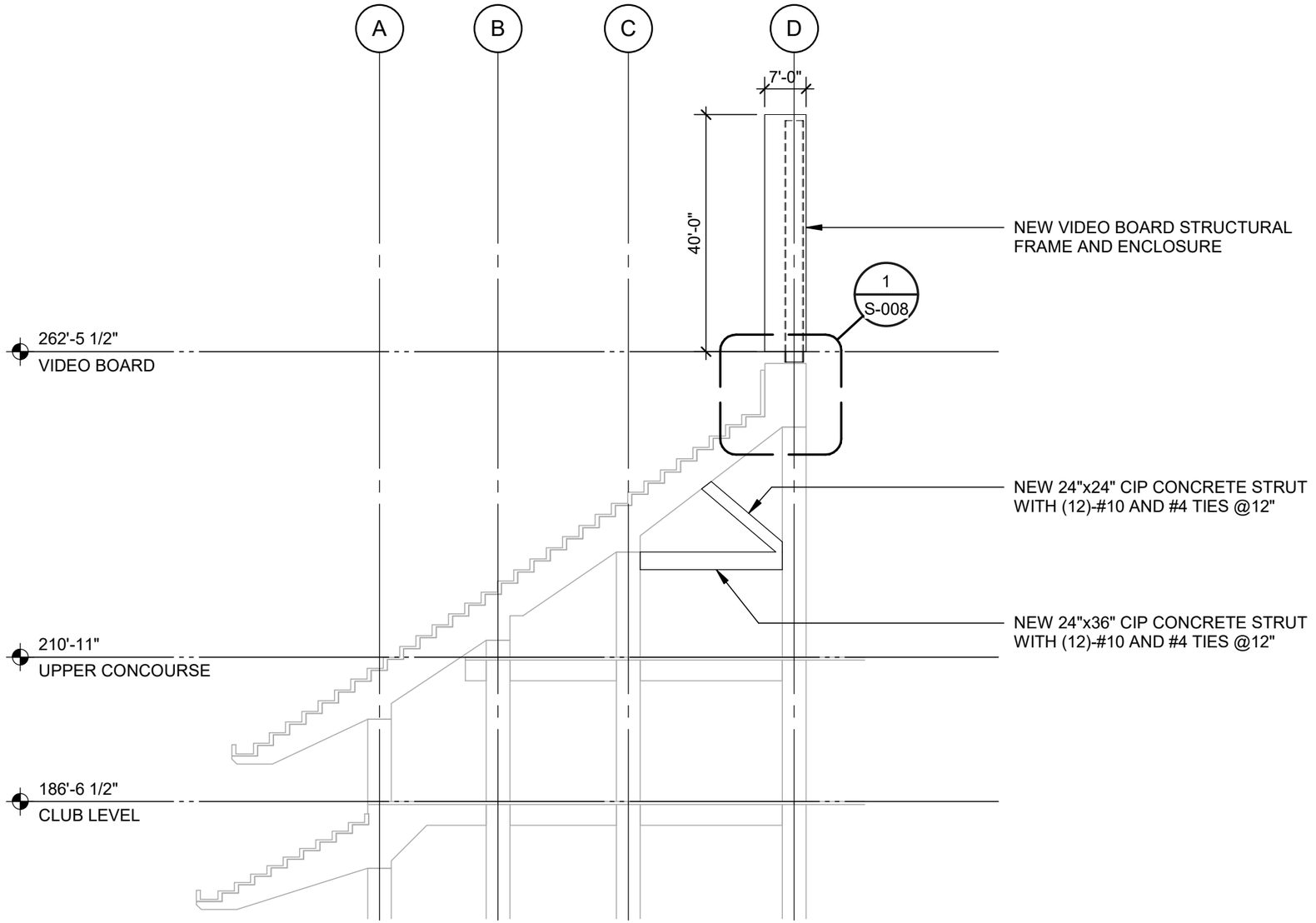
NOTES:
1. ALL FRAMING IS EXISTING UNLESS NOTED OTHERWISE.
2. ALL NEW CIP CONCRETE REINFORCING TO BE DRILLED AND EPOXIED INTO EXISTING CIP CONCRETE AT THEIR RESPECTIVE INTERFACES.



1 BUILDING SECTION AT GRIDS 6 & 7

3/64" = 1'-0"

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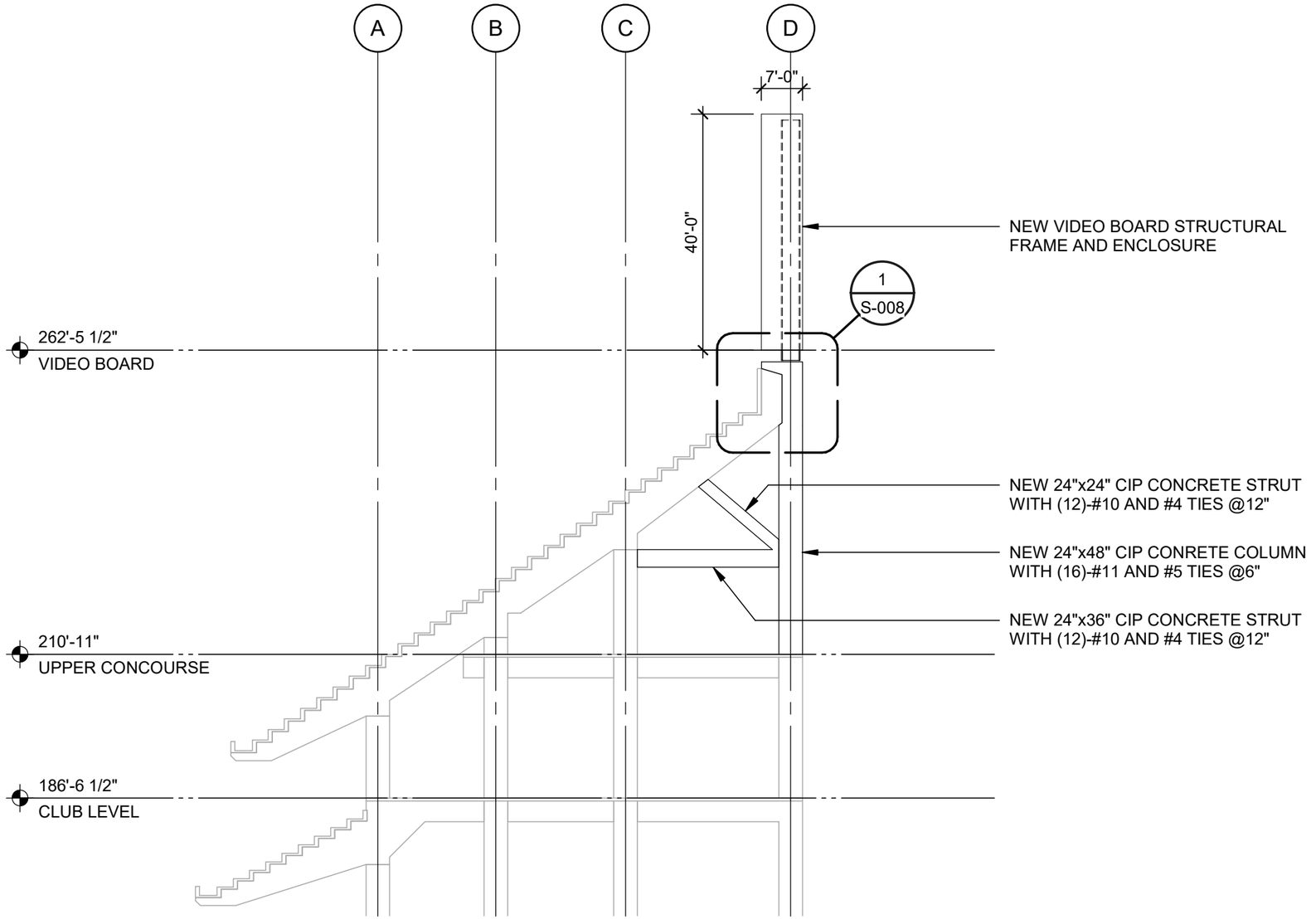
DYLAN S. RICHARD P.E. NO. 60997

Project Name: UF Football Video Board Study Ben Hill Griffin Stadium Gainesville, Florida	Date: 06/07/19	Sheet: S-006
Client: HOK	Project Number: S05-19031-00	

DocuSign Envelope ID: D9980ADD-6B20-489D-A191-89A1DD193441

NOTES:
1. ALL FRAMING IS EXISTING UNLESS NOTED OTHERWISE.
2. ALL NEW CIP CONCRETE REINFORCING TO BE DRILLED AND EPOXIED INTO EXISTING CIP CONCRETE AT THEIR RESPECTIVE INTERFACES.



1 BUILDING SECTION AT GRIDS 5 & 8

3/64" = 1'-0"

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DYLAN S. RICHARD P.E. NO. 60997

Project Name: UF Football Video Board Study Ben Hill Griffin Stadium Gainesville, Florida		Date: 06/07/19	Sheet: S-007
Client: HOK		Project Number: S05-19031-00	

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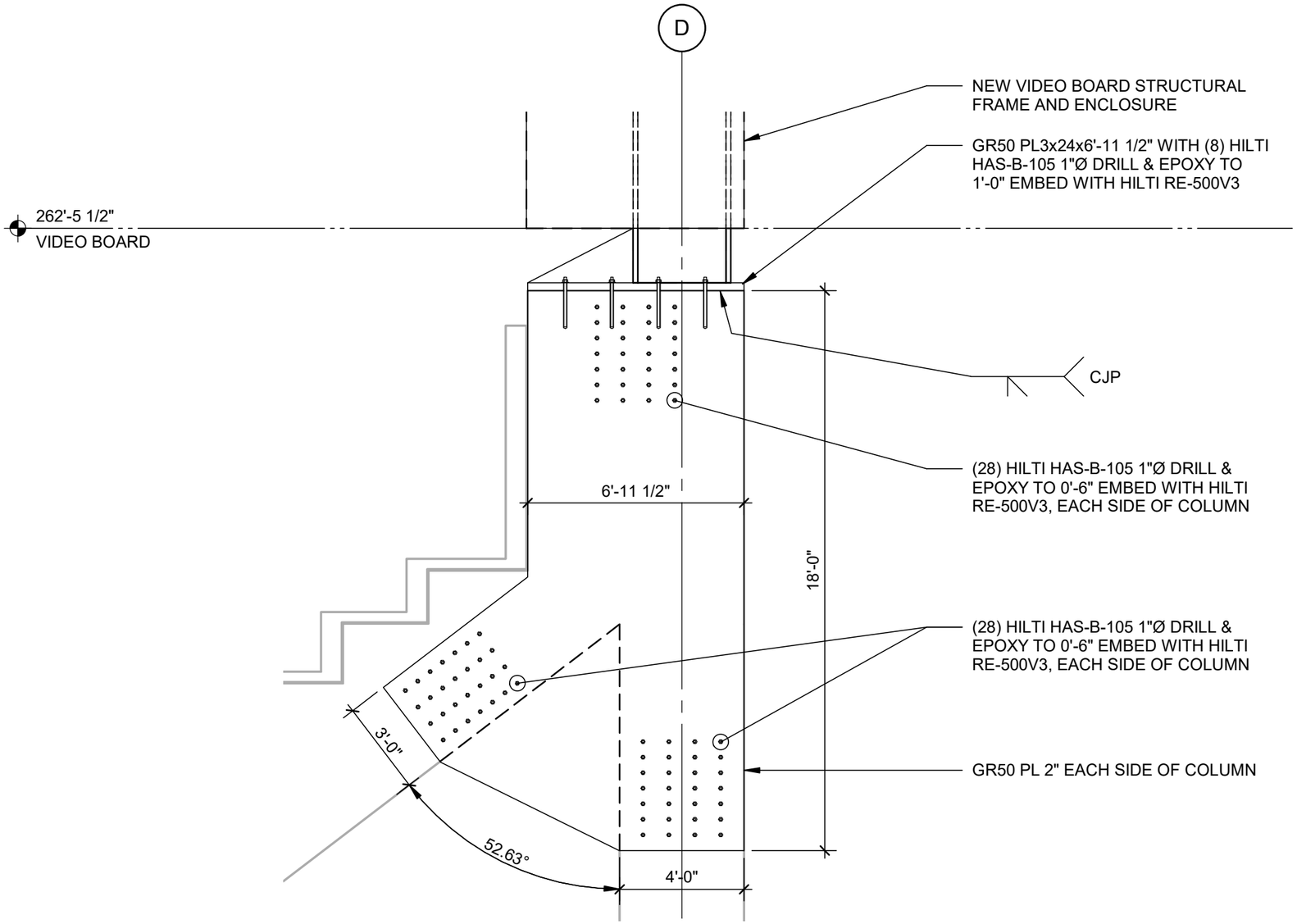

1 SCOREBOARD COLUMN CONNECTION

1/4" = 1'-0"

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DYLAN S. RICHARD P.E. NO. 60997

Project Name:	Date:	Sheet:
UF Football Video Board Study Ben Hill Griffin Stadium Gainesville, Florida	06/07/19	S-008
Client: HOK	Project Number: S05-19031-00	